

# D4 Report on SHAFE policies, strategies and funding

International Interdisciplinary Network on

Smart Healthy Age-Friendly Environments | NET4Age-Friendly

COST Action 19136 (2020-2024)







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## **History**

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#### **EXECUTIVE SUMMARY**

The objective of Working Group (WG) 4 of the COST Action NET4Age-Friendly is to examine existing policies, advocacy, and funding opportunities and to build up relations with policy makers and funding organisations. Also, to synthesize and improve existing knowledge and models to develop from effective business and evaluation models, as well as to guarantee quality and education, proper dissemination and ensure the future of the Action. The Working Group further aims to enable capacity building to improve interdisciplinary participation, to promote knowledge exchange and to foster a cross-European interdisciplinary research capacity, to improve cooperation and co-creation with cross-sectors stakeholders and to introduce and educate students SHAFE implementation and sustainability (CB01, CB03, CB04, CB05).

To enable the achievement of the objectives of Working Group 4, the Leader of the Working Group, the Chair and Vice-Chair, in close cooperation with the Science Communication Coordinator, developed a template (see annex 1) to map the current state of SHAFE policies, funding opportunities and networking in the COST member countries of the Action. On invitation, the Working Group lead received contributions from 37 countries, in a total of 85 Action members. The contributions provide an overview of the diversity of SHAFE policies and opportunities in Europe and beyond. These were not edited or revised and are a result of the main areas of expertise and knowledge of the contributors; thus, gaps in areas or content are possible and these shall be further explored in the following works and reports of this WG. But this preliminary mapping is of huge importance to proceed with the WG activities.

In the following chapters, an introduction on the need of SHAFE policies is presented, followed by a summary of the main approaches to be pursued for the next period of work. The deliverable finishes with the opportunities of capacity building, networking and funding that will be relevant to undertake within the frame of Working Group 4 and the total COST Action. The total of country contributions is presented in the annex of this deliverable.



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## 1. Introduction | why SHAFE is needed

#### 1.1 SHAFE origin and objectives

The journey of SHAFE (Smart Healthy Age-Friendly Environments) started with the naivest enthusiasm, as all small things start. Thanks to so many committed organizations and individuals in Europe, a very small conviction and dream has grown into a solid movement. And even into a new word: SHAFE. This only happens when ideas make sense and come in the right historic time. The meaning and notion of SHAFE as a holistic approach that promotes the alignment of policies and strategies is a unique roadmap for the implementation in and across Europe.

To introduce the NET4Age-Friendly mapping of policies and models, an introduction that refers to the concept and evolution of the SHAFE concept, as well as its implementation in specific projects is needed.

Smart, adaptable and inclusive solutions can help improve and support independent life throughout the course of life, regardless of age, gender, disabilities, cultural differences and personal choices.

A holistic approach that optimizes social and physical environments, supported by digital tools and services, allows to provide better health and social care, promoting not only independent living, but also equity and active participation in society. This approach follows the United Nations' line-up, with the Sustainable Development Goals (in particular Objectives 3 and 11), stating that sustainable environments for all ages represent the basis for ensuring a better future for the entire population and addressing most of the growing issues of the ageing population.<sup>1</sup>

The challenges of different sectors, such as ICT, the building industry and urban planning and the health and social care, as well as those of citizens and their communities are interlinked. Responding to these challenges will foster awareness and support for the creation and implementation of smart, healthy and inclusive environments for present and future generations that enable them to learn, grow, work, socialise and enjoy a healthy life, benefiting from the use of digital innovations, accessibility solutions and adaptable support models in the European context.

The community is the physical, social and cultural ecosystem closest to people, built on relationships of trust, sharing, solidarity and intimacy, where people find social, cultural and identity references, socialise and live their daily lives. The objective conditions of the environment (pollution, accessibility, mobility, safety, comfort) affect the quality of life and wellbeing of citizens, particularly in the context of climate change and thus affect the whole community circle.

Thus, we foster actions that promote partnerships between technological and digital innovation, architecture, urban planning, social studies and health sciences to design and simulate communities of belonging that leverage on the potential of each sector to promote the existential dignity of all persons, regardless of their age, gender, health, social, educational, economic, cultural and identity conditions, as well as the levels of development of the region where they live.

This is SHAFE.

This new concept was created since 2017, based on the desire to implement Smart Healthy Age-Friendly Environments (SHAFE) across Europe, fostering happier and healthier people in all communities. This idea took shape and became a solid movement.

<sup>&</sup>lt;sup>1</sup> https://sdgs.un.org/goals



SHAFE began as a Thematic Network<sup>2</sup>, approved by the European Commission, to draw policy makers, organisations and citizens' attention to the need of better alignment between health, social care, built environments and ICT, both in policy and funding and delivered a Joint Statement and a Framing Paper in December 2018 to the European Commission and Member States.

After this, SHAFE evolved to a European Stakeholders Network, which currently has over 170 partner organisations and is coordinated by Carina Dantas and Willeke van Staalduinen.

It is working to achieve better COOPERATION and IMPLEMENTATION, as the major challenges for the next period, as stated in the Position Paper released in 2020, with recommendations that aim to promote healthier environments for all citizens and make environments accessible, sustainable and reachable for all, with the support of ICT.

The pandemic has uncovered the major opportunities and benefits of turning digital. However, single digital solutions are not the panacea to all the societal challenges. Citizens across different age groups also need personal human contact; they need to meet, to talk to each other, to hug and to love. Digitalization cannot replace this human need but can be a powerful vehicle to support people. The scenario during 2021 is an opportunity for the digital revolution to be well thought and implemented, if all the adequate challenges are well considered and tackled.

The Smart Healthy Age-Friendly Environments Network thus focus on the narrative, debate, disclosure and knowledge translation of solutions to optimize the physical and social environments of individuals in a concerted manner.

From the early concept, several projects have been implementing SHAFE in the field: NET4Age-Friendly is one of the most recent.

## 1.2 Working on the realisation of SHAFE

Since the launch of SHAFE as thematic network in 2018, several initiatives and projects took place since then. Besides the approval of SHAFE as COST Action 19136 International interdisciplinary network on smart healthy age-friendly environments, other projects related to SHAFE were approved.

Erasmus+ is the EU's programme to support education, training, youth, and sport in Europe in multinational consortia. These areas are key to support citizens' personal and professional development. High quality, inclusive education and training, as well as informal and non-formal learning, ultimately equip participants of all ages with the qualifications and skills needed for their meaningful participation in a democratic society, intercultural understanding, and successful transition in the labour market. Within the frame of Erasmus+, training and education is developed to empower facilitators to implement smart healthy inclusive environments in their community. Projects such as "Hands-on SHAFE"<sup>3</sup>, "Educational game BIG"<sup>4</sup>, "Bridge the Gap!"<sup>5</sup>, and "DESIgn for all methods to cREate age-friendly housing" (DESIRE)<sup>6</sup> supported by the Erasmus+ programme include adult learners in the field of inclusive environments.

<sup>&</sup>lt;sup>2</sup> https://en.caritascoimbra.pt/shafe/

<sup>&</sup>lt;sup>3</sup> <u>www.hands-on-shafe.eu</u>

<sup>&</sup>lt;sup>4</sup> www.big-game.eu

<sup>&</sup>lt;sup>5</sup> www.bridgethegap-project.eu

<sup>&</sup>lt;sup>6</sup> <u>www.projectdesire.eu</u>



"Hands-on SHAFE" aims to deliver online training packages for informal learning experiences and hands-on tools to improve the skills of people of all ages and especially seeks to enable persons with lower skills or qualifications to choose and implement SHAFE in their own homes or neighbourhoods. In this way, the project fosters and promotes social inclusion for people of all ages and genders, including people with cognitive or physical impairments or disabilities. It also aims to enable citizens to become innovators and trailblazers in their own neighbourhoods or to become entrepreneurs in the field of SHAFE services and products.

The educational game "Building Inclusive environments for all Generations" (BIG) elaborates further on the training about SHAFE by developing an online game. The player can meet and solve the challenges of characters during the play, such as inaccessible housing for a wheelchair, loading goods in a car while taking care of a child, or visiting a restaurant with impaired sight. The project will also develop a workshop methodology to use the game in joint training settings.

The "Bridge the Gap!" project focuses on the training of older people to create and improve their own living environments to support independent living and participation in society. On the one hand, the training offers traditional means to advocate their interests. On the other hand, it will mainly focus on the capacity building of older adults to use digital skills. Such digital actions include accessing social media, building online advocacy accounts, or sharing photos to express to stakeholders and decision-makers specific local needs to improve the local living environment.

The DESIRE project is developed by an international partnership involving four countries working on a design for all (D4ALL) concept applied to age-friendly housing. DESIRE aims to provide professionals in the building industry as well as furniture and home furnishings sector with the tools and skills to apply D4ALL methods as an integral part of the design process, with the aim to create or adapt age-friendly housing as a solution for the well-being, comfort and autonomy of older adults or people in situation of dependency at home. The project will develop an innovative training course on D4ALL to meet the emotional, cognitive, and social needs of older adults while driving new opportunities in the habitat sector, fostering interactions and knowledge exchange in the design process between cross-cutting fields such as science, social sciences, and arts.

Within the Interreg Europe programme of funding, another SHAFE initiative was granted: the EU\_SHAFE project (2019-2024). The EU\_SHAFE project will improve policies and practices in 6 European regions by developing a comprehensive approach to Smart Healthy Age-Friendly Environments (SHAFE). Through a 'learning by sharing' methodology, this robust multi-disciplinary and intersectoral consortium will build a four-helix European community to exchange experiences and practices to improve multilevel policy instruments. The consortium will create a cooperative, inclusive ecosystem between public authorities, European networks and user's associations, embedding their experience and skills with research & design knowledge from academia and SMEs for the growth of community-based services and "ageing at home" around Europe. EU\_SHAFE will invest in policy design and adaptation of regional instruments derived from ETCF (R&I priorities) and ESF (Social Inclusion), through the creation of a large Euro-local network of stakeholders that will work together in ecosystems towards a common model – a White Paper on SHAFE. Select and re-design concrete and scalable interventions in the area of social innovation for SHAFE, that may be implemented as realistic innovative models for the future.

<sup>&</sup>lt;sup>7</sup> https://www.interregeurope.eu/eushafe/



## 1.3 SHAFE mid-term goals

As referred in the SHAFE Position Paper released in 2020<sup>8</sup>, it is important to acknowledge the serious societal challenges in current times, especially those related to demographic change and the COVID-19 pandemic, implying it is not possible anymore to work in silos or to keep positions for individual interest. Before any other role, we all are citizens and we have a duty as researchers, academics, policy makers, practitioners, industry and business to work together in a bid for a better world.

SHAFE will aim to continue providing its contributions, most of all to maintain and continue to collate and collaborate the innovative contributions from its partners with the view of a shared vision: to implement Smart Healthy Age-Friendly Environments around Europe and promote happier and healthier people in all communities.

SHAFE focus on the following areas:

#### **CITIZENS**

- > To be digitally skilled
- To be aware and understand the benefits and challenges on the sharing of their data
- To be engaged in healthier lifestyles (including through increased health literacy)
- > To participate and engage (in the democratic life)
- To maintain or improve as much as possible their social networks and relationships

#### **ENVIRONMENTS**

- To retrofit and adapt the housing stock
- > To foster accessible and adapted public spaces and transport
- To implement climate neutral solutions
- > To promote health & wellbeing in the workplace

#### **HEALTH AND CARE**

- > To promote reliable, safe and accessible big data
- > To implement robust and interoperable digital infrastructures
- > To foster integrated, personalized, affordable and person-centered solutions (new pathways)
- > To implement guidelines and long-term funding solutions/business models
- > To train care professionals on digital skills.

By 2022, the Stakeholders Network on SHAFE aims to achieve mainly COORDINATION and IMPLEMENTATION of SHAFE solutions including dealing with public health emergencies such as pandemic outbreaks, specifically the following higher-level goals:

✓ Promote training of formal and informal caregivers (communities) on SHAFE, creating a toolkit and implementing training actions in multiple countries (building on the Erasmus+ project hands- on-SHAFE main outputs);

<sup>8</sup> https://en.caritascoimbra.pt/wp-content/uploads/sites/3/2020/10/SHAFE-Position-Paper-011020.pdf.



- ✓ Raise awareness on the need to enhance prevention, social care, building infrastructure and environment conditions in order to move Health and Wellbeing provision to the home and towards community and personalized prevention to a Health and Wellbeing value-based approach (through COST Action NET4Age-Friendly);
- ✓ Jointly develop sustainable business cases with insurance companies and investors and support public authorities and health and social care providers on implementing SHAFE, especially regarding building or restructuring the built environment to include ICT solutions with integrated health and care provision and safe human interrelations, to foster future investments on smart healthy environments (building on the EIPonAHA Innovation to Market (I2M) and DigitalHealthEurope project findings, through the ECHAIIance);
- Organise education and raise awareness of urban planners, architects and ICT-developers in general to focus on PEOPLE and PLACES and focus research on lifelong learning, evidence-based design, smart healthy environments and empowerment, and social distancing (with SHAFE and ElPonAHA stakeholders).

#### POLITICAL MEASURES TO IMPLEMENT IN SHAFE ECOSYSTEMS:

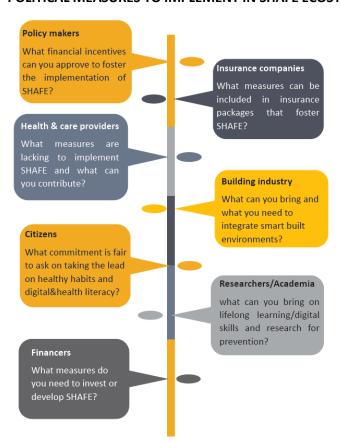


Figure 1 - measures per stakeholder group to realise SHAFE

#### 1.3.1 Housing / Built Environments

In the field of Housing/Built Environments (urban and rural), inequal conditions of living highlight the importance of providing housing with the necessary conditions for aft people to stay in their homes as they age, namely through:

- ✓ Access to adapted residences or financial and technical support for adaptation and requalification works;
- ✓ A sufficient supply of adaptable housing;
- ✓ Increased energy efficiency of housing and equipment;
- ✓ Introduction of eco-psychological perspectives of planning and managing built environments;
- Prioritizing and pointing out people in social and financial needs, promoting more favourable environments.
- ✓ Accessibility regulation and best practices implemented.

In this area, the emerging needs and requirements of retrofitting existing buildings adds to the building demands of new housing structures with climate change resilience.

The creation of support infrastructures for alt citizens, including older people in the face of extreme climate phenomena, and the promotion of a landscape architecture of urban space that allows a higher life quality for citizens must also be added.



Outdoor spaces and buildings, such as meeting places, shops, public transport and restaurants have to be accessible, affordable and safe to enable people to meet each other and socialise, to travel or to buy their daily shopping. The coronavirus outbreak brings the society to think of new and innovative building concepts in which safe social distancing and social meetings still can take place.

The houses need to be considered as a potential space for work and life 24 hours a day.

This can be the perfect storm to organize new building standards and retrofitting programmes that will allow also for a better ageing at home and in the community.

#### 1.3.2 Social Participation and citizen empowerment

In the field of Social Participation, the challenges refer often to:

- ✓ Attracting new residents to tow density territories, especially those unbalanced in terms of ageing and demography;
- ✓ Enhancing mid-level professions essential for training caregivers and workers in social care;
- ✓ Reorganization of and training according to current and future territorial needs;
- ✓ Promotion of the civic participation and advocacy of potentially vulnerable groups, such as older adults, socially and economically disadvantaged, migrants and refugees, amongst others.

Social participation is a right that should be promoted and protected but also a duty of citizens to promote social cohesion, a more participatory democracy and the development of adequate societal transformation.

It is essential to engage a broader range of European population in policy decisions, including the adequate use of resources and the definition of the priorities of investment.

To this aim, also more territorial balance is needed; adequate training and literacy enhancement are some of the most relevant activities to progress. awareness raising and intergenerational initiatives can also boost a more participatory engagement.

#### 1.3.3 Communication and Information

In the field of Communication and Information, expressed needs are associated with:

- ✓ Effective appropriation of information by all types of target audiences, regardless of their age, educational background, training, level of literacy or possible difficulties and disabilities.
- ✓ Citizens having access to "good Information" through the most appropriate means or tools.
- ✓ Quality health promotion, namely through cognitive stimulation, as well as increased digital health literacy.

This also implies that it is necessary to gain greater understanding of various topics including:

- 1) the effects of increased use of social media,
- 2) take a critical assessment on the societal mission of journalism,



3) understand the poor use of information.

These areas are of high societal relevance and need to be addressed because to promote health and healthy behaviour, adequate (governmental) information supply is crucial.

#### 1.3.4 Health and Community Services

In the area of Health and Community Services several needs exist, namely the:

- Humanisation of health services, in particular the increase of medical appointments duration, better
  interaction between patient and professional, good adherence habits and more human and equipment
  resources;
- ✓ New healthcare delivery concepts that prevent isolation and lack of access, namely those that are sustainable and of high-quality; promote physical activity; that can provide solutions for pandemic or emergency situations; and reduce virus spreading to staff and other patients;
- ✓ The reinforcement of workers and services in general, and in the area of mental health in particular, especially for children and the ageing population;

#### 1.3.5 Further integration of citizen-centered care

- ✓ Integration of SHAFE key elements in built healthcare assets;
- ✓ Person-centered life-course approach of health promotion.

The urgency to promote better and greater articulation between primary and community care partners must be addressed. This is specifically aimed towards greater prevention for less treatment. At the level of challenges, greater innovation has been proposed at the home care level, with the introduction of differentiated services. However, there is still a road to go through regarding palliative and long-term care, with a view to facilitating the adequate environment with less waiting lists. Additionally, there is still a need for greater articulation of health and social policy agendas. Furthermore, there is a need for flexibility in the delivery of services and cooperation agreements that allow innovation to engage.



### 1.4 United Nations Sustainability Development Goals



Figure 2 - SHAFE / NET4Age-Friendly recognised by the United Nations as a good practice

#### SHAFE / NET4Age-Friendly recognised by the United Nations as a good practice9

The United Nations launched an Open call for good practices, success stories and lessons learned by all stakeholders in the implementation of the Sustainable Development Goals and the 2030 Agenda.

More than 700 submissions were reviewed by a team of experts from United Nations entities and "<u>SHAFE</u> <u>implemented through NET4Age-Friendly</u>" <u>was one of the recognized good practices from all over the world</u>.

SHAFE and NET4Age-Friendly are international networks that engage all levels of society with the intrinsic aim of promoting the development of local, regional or national inclusive ecosystems (composed of a quadruple helix of citizens, public authorities, companies, and researchers) which interact and coordinate at the international level. This strategy allows them to literally become viral, by exponentially increasing the networking, the dissemination and knowledge exchange among scientists, business, public, local administrations, policy makers, professionals, and citizens. This brings an inspiring and fruitful new way of cooperation that fosters knowledge and promote grassroot implementation at a broader scale, combining top-down and bottom-up perspectives.

The meaning and notion of SHAFE as a holistic approach that promotes the alignment of policies and strategies is a unique roadmap for the implementation in and across Europe. When we acknowledge the serious challenges, especially those related to demographic change and the COVID-19 pandemic, it is not possible anymore to still work in silos or to keep positions for individual interest. Before any other role, we all are citizens and we have a duty as to work together in a bid for a better world. COVID has not directly impacted the implementation of SHAFE, *au contraire*, the inclusive environments proposed by NET4Age-Friendly would be adequate solutions to minimise the effects of the pandemic and relieve the pressure on health and care systems.

<sup>&</sup>lt;sup>9</sup> https://sdgs.un.org/partnerships/shafe-implemented-through-net4age-friendly



#### 1.5 EU policy on SHAFE

The demographic trends that have been ongoing worldwide are deeply influencing the organization and delivery of social and health services, in the effort of addressing the growing complexity of citizens' needs and to further complicate the challenge, the current Covid-19 pandemic has been increasing the risk of exclusion, poverty, inequalities in the access to health, social care, other public services and, moreover, increasing the digital divide.

Europe has been making an unprecedented effort for a concerted action towards a more Equal EU and this implies supporting collaborations to develop and implement a shared vision to strengthen EU research and innovation, and bringing together all the relevant actors at European, national and regional levels, across different policy areas to handle these societal challenges and involve all levels of the innovation chain.

The life-course approach that is at the heart of SHAFE is now embedded in the European Green Paper on Ageing<sup>10</sup>, that focuses on a life-cycle approach and on individual and societal implications of ageing. Innovations are a key enabler for accessibility, sustainability, integration and equity of social and health services: hence the need to ensure adequate, multidisciplinary approaches to education and learning of the professional workforce across sectors, and life-long learning to foster intergenerational solidarity and fairness between both young and old.

The same approach is reflected in the EU4Health 2021-2027 strategy<sup>11</sup>: our vision for a healthier Union, the response to improve the resilience of European Health systems. Such program coherently supports international cooperation through its 10 objectives, that focus on disease prevention and health promotion, preparedness for cross border health threats, strengthen health data and accelerate the digital transformation. New knowledge and evidences will be generated, as a basis for the development of informed political and strategic interventions translating the good practices and tools into services for the citizens.

A life course, proactive approach, overcomes the boundaries of the health sector and spans in the environment where we live and thrive: hence the pillars of the European planning for 2021-2027, focusing on the "twin transitions": green and digital, where advances in robotics and smart tech are going to speed up the circular economy and implement the European Green Deal from recovery to social innovation.

## 2. Mapping SHAFE

SHAFE policies refer to the coordinated efforts to implement Smart Healthy Age-Friendly Environments across Europe, fostering happier and healthier people in all communities. Such policies need a synergic action at the locoregional, national and international levels in order to achieve better alignment between health, social care, built environments and ICT, both in policy and funding.

Four main mapping strategies were retrieved when developing WG4 works and collecting the country reports. These areas will be further explored in the following three years of the Action:

<sup>&</sup>lt;sup>10</sup> https://op.europa.eu/en/publication-detail/-/publication/d918b520-63a9-11eb-aeb5-01aa75ed71a1/language-en

<sup>11</sup> https://ec.europa.eu/health/funding/eu4health\_en



## 2.1 Mapping SHAFE policies per country/region

Despite the Joint Statement and a Framing Paper in December 2018 to the European Commission and Member States was delivered by a large community of stakeholders, there is currently a large variety of policies at the local, regional and national levels. The President of Portugal supported SHAFE in 2018, and a Portuguese national network on SHAFE was established. The holistic approach that highlights SHAFE policies also occurs in Ireland, Spain, the United Kingdom and Japan, where age-friendly policymaking is part of national or regional policy. Other countries have local age-friendly policies, such as The Netherlands, Iceland and Poland. In these and many other countries, municipalities became a member of the World Health Organization Global Network on Age-friendly Cities and Communities (1100 members worldwide). Finally, other involved countries seem not to have a stable set of policies and holistic approaches.

Concluding, every country develops policies of single or multiple outcomes of SHAFE. These outcomes are to promote independent living, foster participation and social inclusion and secure healthy ageing is found in many policies that partners report. The concerted, multifaceted approach of SHAFE is not clear yet to find in most countries, however some cross-sectoral developments are already taking place. Partners describe the involvement of Ambient Assisted Living solutions in projects, funding and pilots to promote independent living. This approach brings together smart solutions and living environments. Combat isolation or support participation of individuals in society are often joint initiatives from municipalities, housing organisations, welfare institutions and volunteers organisations at local level. Healthy ageing is part of various public health programmes in many countries.

## 2.2 Mapping relevant stakeholders and policy makers

As indicated by the contributors, the main players in the field of SHAFE are local and national authorities. In countries with a strong regional focus, such as Spain and Italy, regional authorities play the most important role on SHAFE. Sometimes, as is the case in Portugal, non-profit organisations define policies on social, digital and healthy issues.

Coordination between national and regional policies need to be further explored and described in order to complement the different roles of public and private organisations.

## 2.3 Mapping partners' ecosystems interesting for NET4

Half of the countries report to have one or more ecosystems that are related to SHAFE and/or interesting for NET4. Most of the ecosystems are local or regional.

To improve the capacity of NET4Age-Friendly members on building and maintaining ecosystems, a webinar was organised by Action members from the ECHAlliance: How to build and nurture a regional/national ecosystem. The webinar gathered around 70 participants, on the 29th April 2021.

The main aim of this session was to provide the Action participants with the adequate strategy, tools and exemplary cases that support them to promote local, regional and national ecosystems in their countries, that help to implement SHAFE solutions. The session was hosted by Carina Dantas (Chair) and Willeke van Staalduinen (Vice-Chair) and started with the inspirational talk of Brian O'Connor, ECHAlliance Director, "What is an ecosystem and how to build it, grow and connect", reminding participants that the needs of local stakeholders should be at the cornerstone of any ecosystem.



Following this introduction, Alexia Zurkuhlen (Digital Health Rheinland - Germany) and Gisela Garcia-Alvarez (Health Cluster Galicia - Spain) presented their ecosystems, how they were born, governed, organised and also provided excellent recommendations on how to promote successful examples in other regions and countries.

In the next slot of the session, Valentina Tageo presented the main conclusions of the work developed on "Enablers and challenges to implement and scale up solutions - the role of ecosystems", based on the outcomes of the DigitalHealthProject and started the discussion with ecosystem representatives and the participants, especially grassroot organisations of different EU countries, on what needs to be enhanced and promoted, namely in what concerns digital literacy and digital infrastructure. More information available in the brochure "Supporting demand and supply for scaling up digital health and care solutions" https://digitalhealtheurope.eu/results-and-publications/supporting-demand-and-supply-for-scaling-up-digital-health-and-care-solutions/. Willeke Van Staalduinen closed the webinar with a highlight of the key points: listen to users and plant the seeds to collect beautiful flowers.

On August 11th, 2021, the Action organised a webinar on the building of social networks, using social media such as LinkedIn and Facebook. 30 participants shared their information on how they built up their existing networks, how they maintain them and which challenges they face. Good profiling in social networks is another asset to attract people to maintain networks.

## 2.4 Mapping funding opportunities interesting for NET4 consortium

At local, regional and national levels, contributors identified several opportunities for funding. For example funding of active and healthy ageing, digitalisation programmes, among others. At the European and international level, there is an extensive list from the results of the Scientific Questionnaire, including Interreg, Horizon Europe, Erasmus+.

## 2.5 Mapping relevant business models and sustainability means

Just a few examples of potential business models were shared by partners. Most of the contributors did not mention any model. Other contributors sometimes doubted what is meant by business models.

Most common business model is the CANVAS model. This model invites organisations to identify the main partners, key activities, human and financial capital, value propositions, network, business channels and cocreators.

SWOT analyses (Strengths, Weaknesses, Opportunities and Threats) are additional models that can be used to (jointly) define the organisational or departmental strategy and tactics.

An extended SWOT analysis is the so-called SWOART: Strengths, Weaknesses, Opportunities, Aspirations, Results and Threats. Making use of data delivery it becomes feasible to identify the results that come out of Weaknesses and Strengths. Also it support to define the Aspirations for Opportunities and Threats.



#### 3. Conclusions and further actions

From the inventory we learned that SHAFE in partner countries shows a shattered picture. Many countries work on topics of independent living, healthy ageing, digital transformation and social participation. Income support to older adults and economy opportunities are additional findings. Holistic approaches as the SHAFE concept (or the WHO AFE concept) stands for, is not very often found in the reports.

We recommend to the COST Action members of NET4Age-Friendly the following actions:

**Partners invest in the creation of networks with stakeholders from the quadruple helix of innovation and maintain ecosystems.** Being a member of NET4Age-Friendly also includes the building of networks and ecosystems at local, regional or national level. We will continue to offer to learn how to build up networks with citizens, housing companies, urban planning, health and social care. Each MC member is asked to report once per year about the progress.

Create small groups of buddy or mentor systems for creating ecosystems (e.g. also twinnings). Deliver support to members to build and maintain local, regional or national ecosystems or networks and jointly explore opportunities from holistic approaches. This will be coordinated by the training school organiser and will become part of the training schools.

**Business modelling to identify opportunities on SHAFE.** In the second year of the Action we pay much attention to the capacity building on business modelling in the field of SHAFE, outlining different types of models according to the type of support identified. We will start with webinars about the topic, and organise training schools on this theme.

**Funding opportunities will be further sustained.** The initial inventory of partners' knowledge of funding opportunities will be further exploited in the second year of the Action. We will organise webinars on the topic and funding will become part of the training schools.



#### 4. ANNEXES

### 4.1 ANNEX 1 – Template country inventory

D4. WG report on policies, funding opportunities and networking - M9 (end of July 2021)

ı	NΙα	ma	-	atri	ihi	ıtor	
ı	INd	me	COL	TULL	ıυι	וטוג	

Country:

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

For example: legislation and policy measures to realise SHAFE, inclusive design for all, improve participation and social inclusion, foster healthcare and social care, eHealth and smart home technology measures

[Give an outline what (national, regional or local) policies in your country are to achieve smart healthy age-friendly environments and related topics]:

#### 1. Who do you identify as relevant stakeholders and policy makers in your country?

*In the following domains:* 

	Local	Regional	National
Health			
Social			
Built environment			
Digitalisation			
Development			
Education			
Research			
Other: please specify			
Other: please specify			

#### 2. (National, regional, local) ecosystem on SHAFE you are involved in your country

For example: (informal) cooperative structures or bonds consisting of citizens, public authorities, companies, non-governmental organisations, health and social care providers, research and academia working on SHAFE, inclusive design for all, participation and social inclusion, care provision and ICT implementation

[Name of the ecosystem]:

[Describe shortly the partners of the ecosystem]:

[When appropriate: please provide links]:

#### 3. (National, regional, local) funding opportunities on SHAFE in your country

For example: national or local governmental funding programmes, research funded programmes, citizen participation programmes, ICT development and implementation funding



[Describe shortly the funding opportunities that could be of interest for NET4 current and future (national) partners]:

[When appropriate: please provide links]:

4. Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

[Please can you share any examples?]:



## 4.2 ANNEX 2 – Country contributions

## 1. Albania

Contributor: Odeta Durmishi Manahasa, Fabio Naselli

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments:

Under the Ministry of Health and Social Protection (<a href="https://shendetesia.gov.al/">https://shendetesia.gov.al/</a>), there is the Department of Government Social Services (<a href="http://www.sherbimisocial.gov.al/">http://www.sherbimisocial.gov.al/</a>)

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	Institute of Public Health	-	Ministry of Health and Social Protection, Health Insurance Institute,
Social	Municipality	-	Ministry of Health and Social Protection
Built environment	Municipality, Private housing enterprises and developers  City planning/urban planning		Ministry of Infrastructure and Energy
Digitalisation		-	- Digital Alliance  Telecom and cable providers  Ministry Infrastructure and Energy
Development	Municipality	-	
Education	Provincial Health Directorate	-	Ministry of Education, Sport and Youth
Research	Provincial Health Directorate	-	Ministry of Education, Sport and Youth
Cultural venues			
Sporting venues	-	-	-
Other: please specify			



(National, regional, local) ecosystem on SHAFE of the partner of the partner: NA

(National, regional, local) funding opportunities on SHAFE:

Social Services for the Elderly are realized through:

- Social care services provided in public service centers such as community centers, residential centers, day care centers or at home and funded by the State Budget and local budgets of local government bodies.
- Social care services provided in non-public (for-profit and non-profit) service centers.

Further, monthly payments are made to individuals aged 65 and over by the Ministry of Health and Social Protection Municipalities provide free urban transportation, and free health care for the elderly.

**Local/ National Strategy**: To ensure a wider participation of the elderly in community life, to reduce the level of loneliness and social isolation among the elderly. For this, local governments build local support plans / policies for the elderly, within local social plans and mechanisms for the participation of older people, especially women, in the decision-making process.

#### 2. Austria

Contributors: Martin Kampel, Jennifer Lumetzberger (TU Vienna, Computer Vision Lab)

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

- eHealth initiative: information and communication strategy for a modern Austrian healthcare system (recommendation), 2007: <a href="https://www.i-med.ac.at/msig/service/oeehealth\_strategie.pdf">https://www.i-med.ac.at/msig/service/oeehealth\_strategie.pdf</a>
- IHE Initiative: Association for promoting the integration of IT and medical technologies in the Austrian health care system: <a href="https://www.ihe-austria.at/">https://www.ihe-austria.at/</a>
- HEALIX: communication infrastructure for IT applications in the healthcare system: <a href="https://healix.at/">https://healix.at/</a>
- ELGA: electronic health records, https://www.elga.gv.at/
- eHealth strategy board: control group for coordinating and accompanying actors in health and social system
- AAL Austria https://www.aal.at/

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National	
Health			Dachverband der	
			Sozialversicherungsträger	
			(umbrella organisation of the social	
			insurance institutions);	
			Bundesministerium für Soziales,	
			Gesundheit, Pflege und	
			Konsumentenschutz (Federal	
			ministry for social, health, care and	



			concumor protoction).
			consumer protection); österreichisches Rotes Kreuz
Cocial	Fonds Corioles Wise		(austrian red cross), Vamed
Social	Fonds Soziales Wien,		Providers of statutory social
	Wiener Sozialdienste		security, providers of healthcare
	Alten- und		services, Federal Ministry of Social
	Pflegedienste		Affairs, Health, Care and Consumer
			Protection (BMSGPK), Caritas,
			Lebenshilfe, Diakonie Österreich,
			Hilfswerk, Licht ins Dunkel, Kolping,
			Volkshilfe, Austrian Senior Citizens'
			Council
D. III.			https://www.seniorenrat.at/
Built environment			Strabag, Porr, Wienerberger
Digitalisation			Bundesministerium "Digitalisierung
			und Wirtschaftsstandort" (Federal
			ministry of digitalization and
			economy);
			https://www.itsv.at/; Digital
			Austria
			https://www.digitalaustria.gv.at/
Development	Alysis, casenio,		
·	cogvis, Digitaal Life,		
	Doro, ELDAT, ilogs,		
	Philips, telecare		
	systems		
Education			Bundesministerium für Bildung,
Ī			Bundesministerium für Bildung,
			Wissenschaft und Forschung
			J.
			Wissenschaft und Forschung
			Wissenschaft und Forschung <a href="https://www.bmbwf.gv.at/en.html">https://www.bmbwf.gv.at/en.html</a>
			Wissenschaft und Forschung  https://www.bmbwf.gv.at/en.html  (federal ministry of education, science and research)
Research	Medical University	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung,
Research	Vienna, Vienna	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung
Research	Vienna, Vienna University of	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html;
Research	Vienna, Vienna University of Technology,	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform
Research	Vienna, Vienna University of Technology, University of	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform on Ageing (ÖPIA)
Research	Vienna, Vienna University of Technology, University of Technology Graz,	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform
Research	Vienna, Vienna University of Technology, University of Technology Graz, University Innsbruck,	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform on Ageing (ÖPIA)
Research	Vienna, Vienna University of Technology, University of Technology Graz, University Innsbruck, AIT, FH Wiener	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform on Ageing (ÖPIA)
Research	Vienna, Vienna University of Technology, University of Technology Graz, University Innsbruck, AIT, FH Wiener Neustadt, FH Campus	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform on Ageing (ÖPIA)
Research	Vienna, Vienna University of Technology, University of Technology Graz, University Innsbruck, AIT, FH Wiener	Salzburg Research	Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html (federal ministry of education, science and research)  Bundesministerium für Bildung, Wissenschaft und Forschung https://www.bmbwf.gv.at/en.html; Austrian Interdisciplinary Platform on Ageing (ÖPIA)



	Joanneum, Carinthia
	University of Applied
	Sciences FH
	Oberösterreich, FH
	St. Pölten, FH
	Technikum Wien, FH
	Vorarlberg
Other: please specify	
Other: please specify	

### (National, regional, local) ecosystem on SHAFE of the partner

AAL Austria <a href="https://www.aal.at/">https://www.aal.at/</a>

Pilot regions of AAL (<a href="https://www.aal.at/pilotregionen-3/">https://www.aal.at/pilotregionen-3/</a>):

Currently, innovative AAL solutions are being or have been installed in about 1000 Austrian households and residential units, tested in everyday use and scientifically evaluated.

In the benefit programme, the Austrian Research Promotion Agency FFG funds test regions with the aim of developing system solutions that enable smart home applications in terms of comfort and lifestyle elements as well as support and care. The underlying processes of the services are to be taken into account. These system solutions will be evaluated in larger benefit test regions, especially in urban environments and with interfaces to Smart Cities technologies and services. Not only will the actual use of the solutions be evaluated, but also the social added value.

- WEST AAL test region https://www.west-aal.at/
- 24hQuAALity
- Fit4AAL
- gAALaxy
- i-evAALuation
- moduLAAR
- multimodAAL
- regionAAL
- Smart VitAALity
- WAALter
- ZentrAAL

#### (National, regional, local) funding opportunities on SHAFE

**FWF:** Austrian Science Fund <a href="https://www.fwf.ac.at/en/">https://www.fwf.ac.at/en/</a>

**FFG:** Austrian Research Promotion Agency <a href="https://www.ffg.at/en/content/information-technology-overview">https://www.ffg.at/en/content/information-technology-overview</a>, e.g. benefit programme <a href="https://www.ffg.at/programm/benefit">https://www.ffg.at/programm/benefit</a>

WWTF: Vienna Science and Technology Fund <a href="https://www.wwtf.at/index.php?lang=EN">https://www.wwtf.at/index.php?lang=EN</a>



Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

N/A

## 3. Belgium

Contributors: Deborah Lambotte, Stefan Danschutter

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

- The decree 'local social 4 policy' (Art. and 7 https://codex.vlaanderen.be/Zoeken/Document.aspx?DID=1029068&param=inhoud&ref=search& AVIDS=) supports municipalities in the realisation of a local social policy and stimulates municipalities to adopt a leading role. Municipalities are encouraged to develop a well-supported, integral and inclusive (local) social policy, in cooperation with local actors and the local population. In order to realise a good local social policy, the municipalities need to formulate policy objectives in relation to the local needs and involve and stimulate participation of their citizens in policy preparation and implementation. Therefore, the majority of Flemish municipalities have a local advisory council for older adults. The advisory council can signal local difficulties and challenges to the local government.
- The region of Flanders is responsible for the policy on health care provision within and outside health care institutions (with the exception of that which is explicitly reserved for the federal government), preventive health care and the recognition of health care professions à Agency for Care and Health: <a href="https://www.zorg-en-gezondheid.be">https://www.zorg-en-gezondheid.be</a>
  - Policy on preventive healthcare (<a href="https://www.zorg-en-gezondheid.be/beleid/preventieve-gezondheidszorg">https://www.zorg-en-gezondheid.be/beleid/preventieve-gezondheidszorg</a>)
  - o The development of the Flemish social protection (<a href="https://www.zorg-engezondheid.be/beleid/vlaamse-sociale-bescherming">https://www.zorg-engezondheid.be/beleid/vlaamse-sociale-bescherming</a>)
  - o Primary care (https://www.zorg-en-gezondheid.be/beleid/eerstelijnszorg)
  - Home care (https://www.zorg-en-gezondheid.be/beleid/thuiszorg)
  - Mental health care (<a href="https://www.zorg-en-gezondheid.be/beleid/geestelijke-gezondheidszorg">https://www.zorg-en-gezondheid.be/beleid/geestelijke-gezondheidszorg</a>)
  - o Policy on health care professions (<a href="https://www.zorg-en-gezondheid.be/beleid/gezondheidszorgberoepen">https://www.zorg-en-gezondheid.be/beleid/gezondheidszorgberoepen</a>)
  - Elderly care à residential care decree (<a href="https://www.zorg-en-gezondheid.be/beleid/ouderenzorg">https://www.zorg-en-gezondheid.be/beleid/ouderenzorg</a>)
  - o Policy on hospitals (<a href="https://www.zorg-en-gezondheid.be/beleid/ziekenhuizen">https://www.zorg-en-gezondheid.be/beleid/ziekenhuizen</a>)
  - (E)caring Flanders (<a href="https://www.zorg-en-gezondheid.be/beleid/ezorgzaam-vlaanderen">https://www.zorg-en-gezondheid.be/beleid/ezorgzaam-vlaanderen</a>) informatisation/digitalisation
- Flemish policy note 2019-2024: welfare, public health, family and fighting reduction.
   This policy paper contains the major strategic choices of the Flemish Government in the area of welfare, public health, family and poverty reduction for the period 2019-2024. (https://publicaties.vlaanderen.be/view-file/32263)
- Flanders Housing Policy Plan (https://www.wonenvlaanderen.be/woonbeleidsplan-vlaanderen)



- The set-up of funding programmes for municipalities, healthcare organisations, housing organisations, ... regarding social housing, independent living, dementia prevention programmes, etc.
- à Several centres of expertise: falls and fracture prevention, dementia, healthy living, informal care,...
  - Fall and fracture prevention (<a href="https://www.valpreventie.be">https://www.valpreventie.be</a>)
  - Dementia (<a href="https://www.dementie.be">https://www.dementie.be</a>)
  - Healthy Living (<a href="https://www.gezondleven.be">https://www.gezondleven.be</a>)
  - Informal care (<u>https://www.mantelzorger.be</u>)
- à Flemish Agency Accessible Flanders (Inter) with a number of core topics:
  - Building and surroundings, mobility, policy and events
    - o Adaptable housing http://www.meegroeiwonen.info
    - O Age-friendly housing <a href="http://www.dezilverensleutel.be">http://www.dezilverensleutel.be</a>
    - Accessibility <a href="https://www.toegankelijkgebouw.be">https://www.toegankelijkgebouw.be</a>

Due to the institutional fragmentation, Brussels has a very complex landscape when it comes to policy on smart healthy age-friendly environments. The best solution is to contact a local partner who can help you find the right information, the knowledge centre Housing, well-being and care is such a partner with numerous publications on the topic (www.kenniscentrumwwz.be)

<u>In the Walloon region much of the information can be found via AVIQ (l'agence pour une vie de qualité). A</u> detialed overview of their actions requires further research

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	Municipalities and its	Agentschap Zorg &	FOD Volksgezondheid
	organisations	Gezondheid	
		Kenniscentrum	
		Wonen, Welzijn, Zorg	
		(FL)	
		AVIQ – l'agence pour	
		une vie de qualité	
Social	Municipalities and its	Vlaamse Ouderenraad	
	organisations	Vereniging van	
		Vlaamse Steden en	
		Gemeenten	
		Departement Welzijn,	
		Volksgezondheid en	
		Gezin	
Built environment	Municipalities and its	Agentschap Wonen-	
	organisations	Vlaanderen	



	Inter Vlaams	
	Expertisecentrum	
	Toegankelijkheid	
	CaWaB – Collectif	
	Accessibilité Wallonie-	
	Bruxelles	
Digitalisation	FlandersCare	mHealthBelgium
Development		
Education	Universities and	
	Universities of Applied	
	Sciences and Arts	
	Collective research	
	centers (BBRI, Sirris,)	
	Strategic research	
	centers (IMEC, VITO,)	
Research	Universities and	
	Universities of Applied	
	Sciences and Arts	
Other: please specify		
Other: please specify		

#### (National, regional, local) ecosystem on SHAFE of the partner

- HOGENT University of Applied Sciences and Arts
   Research centre 360° Care and Wellbeing
   https://www.hogent.be/onderzoekscentra/360-zorg-en-welzijn/
- Blue Health Innovation Center https://www.bhic.care/nl
- In4Care https://www.in4care.be
- Licalab <a href="https://www.licalab.be/nl">https://www.licalab.be/nl</a>
- Innovage http://www.innovage.be
- Wallonia e-helath living lab <a href="http://well-livinglab.be">http://well-livinglab.be</a>
- Health house <a href="http://www.health-house.be/en">http://www.health-house.be/en</a>

#### (National, regional, local) funding opportunities on SHAFE

- Fonds Wetenschappelijk Onderzoek: <a href="https://www.fwo.be/en/">https://www.fwo.be/en/</a>
- Koning Boudewijnstichting: <a href="https://www.kbs-frb.be/en">https://www.kbs-frb.be/en</a>
- Innoviris.Brussels: <a href="https://innoviris.brussels">https://innoviris.brussels</a>
- Agentschap Innoveren & Ondernemen: <a href="https://www.vlaio.be/nl/subsidies-financiering">https://www.vlaio.be/nl/subsidies-financiering</a>
- Growfunding: https://www.growfunding.be/nl

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

N/A



#### 4. Belarus

Contributors: Tamara Sharshakova, Nikolai Gapanovich-Kaidalov, Ekateryna Shcherbakova, Evgeny Voropaev, Natali Dmitrieva

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Today about 2 million elderly people live in Belarus. Of these, more than 127,000 are single. The state has always taken care of the elderly.

- Law of the Republic of Belarus On Social Protection of Disabled Persons in the Republic of Belarus No. 1224-XII of November 11, 1991 [Amended as of November 16, 2010]. <a href="http://law.by/document/?guid=3871&p0=V19101224e">http://law.by/document/?guid=3871&p0=V19101224e</a> is meant to ensure the wellbeing of older adults.
- Law of the Republic of Belarus of July 18, 2011 No. 300-Z "On applications of citizens and legal entities"; <a href="http://www.pravo.by/document/?guid=3871&p0=H11100300">http://www.pravo.by/document/?guid=3871&p0=H11100300</a>
- Decree of the President of the Republic of Belarus of October 15, 2007 No. 498 "On additional measures for dealing with applications of citizens and legal entities"; http://www.pravo.by/document/?guid=3871&p0=p30700498
- Directive of the President of the Republic of Belarus of December 27, 2006 No. 2 "On debureaucratization of the state machinery and improving the quality of support of vital activities of the population"; http://www.pravo.by/document/?guid=3871&p0=p00600002
- Resolution of the Council of Ministers of the Republic of Belarus of July 23, 2012 No. 667 "On some issues of dealing with applications of citizens and legal entities" <a href="http://www.pravo.by/document/?guid=3871&p0=C21200667">http://www.pravo.by/document/?guid=3871&p0=C21200667</a>

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National	
Health			Ministry of Public Health	
Social			Ministry of Labour and Social	
			Protection	
Built environment			Ministry of Natural Resources	
			and Environmental	
			Protection	
Digitalisation			Ministry of Communication	
			and Informatization, Ministry	
			of Information	
Development			Ministry of Economy	



Education		Ministry	of	Education,
		Ministry of Culture		
Research	Universities of Applied			
	Sciences and			
	Universities are			
	located in bigger cities			
Other: please specify				
Other: please specify				

#### (National, regional, local) ecosystem on SHAFE of the partner

SHAFE did not work in Belarus before.

#### (National, regional, local) funding opportunities on SHAFE

Funding opportunities on SHAFE in Belarus are limited by State Budget and university budget.

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

N/A

## 5. Bosnia and Herzegovina

Contributors: Jasmina Baraković Husić, Sabina Baraković

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Areas of interest to Smart Healthy Age-Friendly Environments (SHAFE) are defined by the legislative framework at all levels of government in B&H. Laws at the state level, laws at the both entities levels (i.e., the Federation Bosnia and Herzegovina and the Republika Srpska), laws at the level of the Brčko District and laws at the level of cantons in Federation Bosnia and Herzegovina have been adopted. Of all the laws, the seniors are the focus of the following laws<sup>12</sup>: (i) Family law, (ii) Laws dealing with pension and disability insurance, (iii) Laws on retirement, (iv) Laws on labor and social security of the unemployed, (v) Law on protection from domestic violence, (vi) Law on prohibition of discrimination, (vii) Law on rights, obligations and responsibilities of patients, (viii) Law on social protection, (ix) Law on health insurance and protection, (x) Law on medicines and medical devices, and (xi) Regulations and decisions in the field of health rights.

#### The Legal Framework for Smart Healthy Age-Friendly Environments

#### 1. The laws on state level of government

Available at: <a href="https://www.parlament.ba/home?lang=en">https://www.parlament.ba/home?lang=en</a>

a. Law on Amendments to the Law on Prohibition of Discrimination. Official Gazette BiH, 66/16.

<sup>&</sup>lt;sup>12</sup> Source: <a href="https://epale.ec.europa.eu/en/node/163078">https://epale.ec.europa.eu/en/node/163078</a>



- b. Law on Freedom of Access to Information in Bosnia and Herzegovina. Official Gazette BiH, 28/00, 45/06, 102/09.
- c. Law on Medicines and Medical Devices. Official Gazette of BiH, 58/08.
- d. Law on Basics of Road Traffic Safety in Bosnia and Herzegovina. Official Gazette BiH, 6/06.

#### 2. The laws and decisions on the entity level - Federation Bosnia and Herzegovina

Available at: http://www.fbihvlada.gov.ba/english/zakoni/

- a. Law on Pension and Disability Insurance. Official Gazette of the Federation of BiH, 13/18.
- b. Law on Amendments to the Law on More Favourable Retirement of Defenders of the Defence-Liberation War. Official Gazette of the Federation of BiH, 90/17.
- c. Law on Modifications and Amendments to the Labor Law, Official Gazette of the Federation of BiH, 32/00, 29/03.
- d. Law on Protection from Domestic Violence. Official Gazette of the Federation of BiH, 20/13.
- e. Law on Patients' Rights, Obligations and Responsibilities. Official Gazette of the Federation of BiH, 40/10.
- f. Law on modification of the Law on Mediation in Employment and Social Safety for Unemployed Persons, Official Gazette of the Federation of BiH, 55/00, 9/08.
- g. Law on the Fundamentals of Social Protection, Protection of Civilian Victims of War and Protection of Families with Children. Official Gazette of the Federation of BiH, 36/99, 54/04, 39/06, 14/09, 45/16.
- h. Law on Health Insurance. Official Gazette of the Federation of BiH, 30/97, 7/02, 70/08, 48/11.
- i. Low on Health Care. Official Gazette of the Federation of BiH, 46/10, 75/13.
- j. Law on Medicines. Official Gazette of the Federation of BiH, 109/12.
- k. Law on Patients' Rights, Obligations and Responsibilities. Official Gazette of the Federation of BiH, 40/10.
- I. Decision on determining the basic package of health rights. Official Gazette of the Federation of BiH, 21/09.
- m. Decision on health care standards and norms from compulsory health insurance. Official Gazette of the Federation of BiH, 5/03, 18/04, 57/07, 53/08, 6/11, 104/13.
- n. Decision on the List of Essential Medicines Necessary for Health Care Insurance within the Standards of Compulsory Health Insurance in the Federation of Bosnia and Herzegovina, Official Gazette of the Federation of BiH, 56/13, 74/14, 94/15, 12/16, 25/17.

#### 3. The laws and decisions on the entity level – Republika Srpska

Available at: <a href="https://www.narodnaskupstinars.net/">https://www.narodnaskupstinars.net/</a>

- a. Law on Social Welfare. Official Gazette of Republic of Srpska, 37/12, 90/16.
- b. Law on Pension and Disability Insurance. Official Gazette of Republic of Srpska, 134/11, 82/13, 103/15.
- c. Law on Health Care. Official Gazette of Republic of Srpska, 18/99, 58/01, 62/01, 106/09, 44/15.
- d. Law on Health Insurance. Official Gazette of Republic of Srpska, 18/99, 51/01, 70/01, 51/03, 57/03, 17/08, 01/09, 106/09.
- e. Law on Medicines. Official Gazette of Republic of Srpska, 19/01.
- f. Rulebook on exercising the right on assistance and home care. Official Gazette of Republic of Srpska, 2/14.



#### 4. The laws of Brčko District

Available at: <a href="https://skupstinabd.ba/ba/zakon.html">https://skupstinabd.ba/ba/zakon.html</a>

- a. The Law on Health Care of the Brčko District B&H, Official Gazette of Brčko District B&H, 38/11, 9/13, 27/14, 3/15, 50/18
- b. The Law on Health Insurance of the Brčko District B&H, Official Gazette of Brčko District B&H, 01/02, 02/08, 07/02, 19/07, 34/08, 34/19, 19/20
- c. The Family Law of the Brčko District B&H, Official Gazette of Brčko District B&H, 23/07
- d. The Law on Social Welfare of the Brčko District B&H, Official Gazette of Brčko District B&H, 01/03, 04/04, 19/07, 02/08, 21/18, 32/19, 20/20

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health		FBIH: Ministry of Health	
	Health centres	RS: Ministry for Health and Social	
		Welfare	
		Nursing homes (*)	
Social	Retirement homes (***) Adult day-care centres (****) Centres for healthy ageing Home care and assistance centres (*****)	FBIH: Ministry of Labor and Social Policy RS: Ministry for Labour, Veterans and Disability Protection Humanitarian organizations (**) Gerontology centres (*******)	
D!I4	Municipal services for	FBIH: Ministry of Spatial Planning	
Built	urbanism, physical planning	RS: Ministry of Physical Planning,	
environment	and environmental protection	Construction and Ecology	
_			Ministry of
Digitalisation			Communications
			and Transport
	Municipal services for	FBIH: Ministry of Development,	
Development	economy and local	Entrepreneurship and Crafts	
·	development	RS: Ministry for the Economy and	
		Entrepreneurship	
Education		FBIH: Ministry of Education and Science RS: Ministry for Science and	Ministry of Civil
		Technology, Higher Education and	Arrairs
		Information Society	
		FBIH: Ministry of Education and	
Research		Science RS: Ministry for Science and Technology, Higher Education and Information Society	Ministry of Civil Affairs



	Local	Regional	National
Other:		FBIH: FBiH Ministry of Environment	
	Tourist communities	and Tourism	
Tourism		RS: Ministry of Trade and Tourism	
Other:			Ministry of
			Human Rights and
Human rights			Refugees

**Note**: Local domain refers to municipal level. Regional domain implies cantons and entity levels in case of Federation Bosnia and Herzegovina (FBIH), and entity level in case of Republika Srpska (RS). National domain refers to state level of Bosnia and Herzegovina.

- (\*) The establishment of nursing homes, their operations, financing, and is governed by the cantonal regulations on social protection and falls under the competence of the cantonal ministries of social protection.
- (\*\*) Humanitarian organizations that provide assistance and protection to vulnerable persons, particularly to the older persons, are Red Cross Society<sup>13</sup>, Caritas<sup>14</sup>, and Merhamet<sup>15</sup>.
- (\*\*\*) Retirement home ensures its beneficiaries housing, meals, care, putting the clothes on and taking the clothes off, health care, cultural and entertainment, recreational, occupational and other activities, social care and other services depending on their needs, abilities and interests.
- (\*\*\*\*\*) Adult day-care centres provide satisfaction of basic needs for adults with disability and older persons through day-care.
- (\*\*\*\*\*\*) Home care and assistance centres provide housework and home care the old and the infirm in their homes.
- (\*\*\*\*\*\*\*) Gerontology centre monitors, studies, evaluates and reports on social and health needs, and provides services directed on improving institutional and non-institutional care for older persons, coordinates activities of stakeholders within the social protection for older persons system, cooperating with other sectors and training and educating those who provide care for older people.

## (National, regional, local) ecosystem on SHAFE of the partner Non-governmental organizations

Non-governmental organizations (NGOs) in Bosnia and Herzegovina represent a wide array of interests and undertake various activities including distribution of humanitarian assistance, human rights and government monitoring, research and policy development, service provision, etc. NGOs show a wide range of capacities and ways of working, but a relatively small number of professional NGOs has emerged in the larger urban centres<sup>16</sup>. These organisations have been benefited from sustained financial support from foreign donors. For example, The United Nations Population Fund in Bosnia and Herzegovina (UNFPA) and the NGO

<sup>&</sup>lt;sup>13</sup>Source: https://ckfbih.ba/

<sup>&</sup>lt;sup>14</sup>Source: <a href="https://www.caritas.ba/">https://www.caritas.ba/</a>
<sup>15</sup>Source: <a href="https://www.merhamet.ba/">https://www.merhamet.ba/</a>

<sup>&</sup>lt;sup>16</sup> Source: https://www.intrac.org/wpcms/wp-content/uploads/2016/09/Praxis-Paper-9-Civil-Society-Capacity-Building-in-Post-Conflict-Societies-Bill-Sterland.pdf



Partnership for Public Health are working together to build the capacity of the existing network of Centers for Healthy Aging in Bosnia and Herzegovina<sup>17</sup>.

Although there are NGOs that can claim to represent the interest of their stakeholders at the state or entity levels (e.g., development of community, social policy and protections, civil society influence on public policy, etc.), the most of them are comprised of small, voluntary community-oriented associations working at the municipal or cantonal level (e.g., women's organizations, blind groups, disease-specific groups, etc.). Only small number of NGOs at the municipal or cantonal level have received international project funding or benefited from inclusion in NGO capacity building programmes. NGOs engaged in service provision are dominant, but only a few of them carry out work aimed at influencing government policy or amending legislation.

There is no country strategy for cooperation between government and NGOs at either the state or entity level. NGOs report that relations with municipal authorities are most productive and relevant for their work<sup>18</sup>. In order to formalise cooperation between government and NGOs, a number of advances have been made, driven by foreign actors such World Bank, Swiss Agency for Development and Cooperation (SDC), United Nations Development Programme (UNDP), United States Agency for International Development (USAID), etc.

NGOs in Bosnia and Herzegovina are organized into NGO networks based on geographical location or interest. One example is Informal Network of NGOs for the Protection of the Rights of the Elderly - "FOR DIGNIFIED AGING" 19.

According to abovementioned, the NGOs partners in Bosnia and Herzegovina are government organizations at all levels (as mentioned in the answer to question 2), as well as international organizations including:

- United Nations Development Programme (UNDP):
   <a href="https://www.ba.undp.org/content/bosnia">https://www.ba.undp.org/content/bosnia</a> and <a href="herzegovina/en/home.html">herzegovina/en/home.html</a>
- United Nations Population Fund in B&H (UNFPA): <a href="https://ba.unfpa.org/en">https://ba.unfpa.org/en</a>
- United States Agency for International Development (USAID): <a href="https://www.usaid.gov/bosnia">https://www.usaid.gov/bosnia</a>
- Organization for Security and Co-operation in Europe (OSCE): <a href="https://www.osce.org/mission-to-bosnia-and-herzegovina">https://www.osce.org/mission-to-bosnia-and-herzegovina</a>
- World Bank: <a href="https://www.worldbank.org/en/country/bosniaandherzegovina">https://www.worldbank.org/en/country/bosniaandherzegovina</a>
- CARE International: <a href="https://www.care-international.org/where-we-work/bosnia-and-herzegovina">https://www.care-international.org/where-we-work/bosnia-and-herzegovina</a>
- Austrian Development Cooperation (ADC): <a href="https://www.entwicklung.at/en/">https://www.entwicklung.at/en/</a>
- Swiss Agency for Development and Cooperation (SDC): <a href="https://www.eda.admin.ch/deza/en/home/countries/bosnia-herzegovina.html">https://www.eda.admin.ch/deza/en/home/countries/bosnia-herzegovina.html</a>
- Regional Cooperation Council (RCC): https://www.rcc.int/flagships/3/human-capital

#### Research and academia working on SHAFE

<sup>&</sup>lt;sup>17</sup> Source: <a href="https://eeca.unfpa.org/en/news/older-people-regularly-visiting-unfpa-supported-centres-live-healthier-longer-lives-new-study">https://eeca.unfpa.org/en/news/older-people-regularly-visiting-unfpa-supported-centres-live-healthier-longer-lives-new-study</a>

<sup>&</sup>lt;sup>18</sup> Source: <a href="https://www.intrac.org/wpcms/wp-content/uploads/2016/09/Praxis-Paper-9-Civil-Society-Capacity-Building-in-Post-Conflict-Societies-Bill-Sterland.pdf">https://www.intrac.org/wpcms/wp-content/uploads/2016/09/Praxis-Paper-9-Civil-Society-Capacity-Building-in-Post-Conflict-Societies-Bill-Sterland.pdf</a>

<sup>&</sup>lt;sup>19</sup> Source: <a href="http://dostojanstvenostarenje.org/">http://dostojanstvenostarenje.org/</a>



Research and academia ecosystem is responsibility of two Entities (i.e., Federation Bosnia and Herzegovina and Republika Srpska) and the Brčko District. In Federation Bosnia and Herzegovina, this responsibility is further delegated to ten Cantons. This leads to highly fragmented ecosystem consisting of several management subsystems (i.e., the Cantons in Federation Bosnia and Herzegovina, the level of Federation Bosnia and Herzegovina, the level of Republika Srpska, Brčko District, state level of Bosnia and Herzegovina). At the state level, the responsibility for research and academia ecosystem is located within the Department for Education, Science, Culture and Sport of the Ministry of Civil Affairs<sup>20</sup>. At the entity level of Federation Bosnia and Herzegovina, the responsibility for research and academia ecosystem is allocated to each of the ten Cantons which can delegate specific functions to the Federal Ministry of Education and Science<sup>21</sup>, which is responsible for coordination among them. At the level of Cantons, ministries of education and science are responsible for education and academia ecosystem. There are ten ministries which size and capacity to perform functions differ from canton to canton (Una-Sana Canton, Posavina Canton, Tuzla Canton, Zenica-Doboj Canton, Bosnian-Podrinje Canton Gorazde, Central Bosnia Canton, Herzegovina-Neretva Canton, West Herzegovina Canton, Sarajevo Canton, Canton 10). At the entity level of Republika Srpska, the responsibility for research and academia ecosystem is allocated to Ministry for Science and Technology, Higher Education and Informatics<sup>22</sup>. This Ministry is responsible for relevant policies, administrative and other expert tasks related to science and research activities, incentive to basic and applied research, innovation, development and improvement of technology, planning, preparation of programs and agreement on scientific and technological cooperation, etc. In comparison to both Federation Bosnia and Herzegovina and Republika Srpska, Brčko District has the smallest and the most concentrated model of this sector. The responsibility for research and academia ecosystem is allocated to the Department for Education within the District Government<sup>23</sup>.

According to abovementioned, partners of research and academia ecosystem are government organizations at cantonal, entity, and state level, where the last one is responsible for coordination of international activities through various programmes (e.g., Erasmus+24, Horizon 202025, IPA, etc.), projects, associations, etc.

#### (National, regional, local) funding opportunities on SHAFE

The complex constitutional structure of Bosnia and Herzegovina has caused differences across the country in relation to collection of funds, distribution mechanisms, budgeting procedures, and development of specific financial schemes.

The SHAFE can be funded from the budgets of various government levels (the State, the Entities, the Cantons, Brčko District, and municipalities) that contribute in various proportions. The following government organizations could finance the SHAFE at:

#### The state level:

- Ministry of Civil Affairs
- Ministry of Human Rights and Refugees

<sup>&</sup>lt;sup>20</sup> Source: <u>www.mcp.gov.ba</u>

<sup>&</sup>lt;sup>21</sup> Source: www.fmon.gov.ba <sup>22</sup> Source: <u>www.vladars.net</u>

<sup>&</sup>lt;sup>23</sup> Source: http://www.vlada.bdcentral.net/ <sup>24</sup> Source: www.erasmusbih.com/index.php

<sup>&</sup>lt;sup>25</sup> Source: <a href="https://ec.europa.eu/info/research-and-innovation/strategy/international-cooperation/bosnia-and-">https://ec.europa.eu/info/research-and-innovation/strategy/international-cooperation/bosnia-and-</a> herzegovina en



- Ministry of Communications and Transport

#### The entity levels:

- Federation Bosnia and Herzegovina
  - Ministry of Labour and Social Policy
  - Ministry of Health
  - o Ministry of Education and Science
  - Ministry of Development, Entrepreneurship and Crafts
  - Ministry of Spatial Planning
- Republika Srpska
  - o Ministry for Health and Social Welfare
  - o Ministry for Science and Technology, Higher Education and Information Society
  - Ministry for Labour, Veterans and Disability Protection
  - Ministry for the Economy and Entrepreneurship
  - Ministry of Physical Planning, Construction and Ecology

The state level of government deals with the coordination of international projects towards the two entities and Brčko District. These can be European Union (EU) assistance programs through Instrument for Pre-Accession Assistance (IPA) funds and relevant international organizations, embassies, etc.

The entity level of government has the most significant competence, as well as available funds to support SHAFE. The abovementioned ministries on the entity level have the best opportunity to plan and allocate domestic budget to address certain SHAFE issues.

Additionally, there are increasing opportunities for small scale funding from municipal or cantonal level of governments, membership subscriptions, fees for services, charitable giving in the community, etc. This assistance is rarely planned and criteria and distribution mechanisms vary from case to case, which produces inequality across the country.

Despite all level of government are active in supporting SHAFE through some kind of grant aid, funding is highly dependent on international organizations being the foreign supporters as described below.

#### International organizations (Examples of foreign donors)

- World Bank: https://www.worldbank.org/en/country/bosniaandherzegovina
  - Finances the "Health Sector Enhancement Project (HSEP)" in order to repair, reconstruct and furnish the primary healthcare facilities with the aim to improve the family medicine model.
  - Finances the "Reducing Health Risk Factors in B&H" project, which aims to reduce the risk factors of non-communicable diseases.
- United Nations Population Fund (UNFPA): <a href="https://www.unfpa.org/">https://www.unfpa.org/</a>
  - Support the opening of Centres of Healthy Aging in cooperation with Federal Ministry of Health in order ensure healthy ageing and protect mental health and physical activity.
  - Supports the "Sexual and Reproductive Health" programme in order to strength the capacities of governments to provide integrated sexual and reproductive health services with a focus on vulnerable populations.
- Swiss Agency for Development and Cooperation (SDC): https://www.eda.admin.ch/deza/en/home/countries/bosnia-herzegovina.html



- Finances the project of "Strengthening of Nursing in B&H", where one of the activities is establishment of the polyvalent patronage nurse (PNN) service that is important for providing the services for the seniors and long-term care.
- Finances the project "Mental Health Project in B&H", which focuses on improvement of capacities of the competent institutions in order to improve the mental health of the entire population.
- World Health Organization/ Europe Office: https://www.euro.who.int/en
  - Implements the project of "Strengthening and Advancing Modern and Sustainable Public Health Strategies, capacities and services to improve population health in B&H" in order to reduce burdens with non-communicable diseases and ensure better health outcome for the B&H population.

## Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

Below are listed activities being performed in different domains to contribute to the implementation of SHAFE in Bosnia and Herzegovina<sup>26</sup>.

#### Lifelong learning

The Ministry of Civil Affairs of B&H<sup>27</sup> works on establishment of basic principles, coordination and harmonisation of the plans of entity-level authorities and definitions of strategies at the international level. At the state level, the following documents have been adopted in the field of lifelong learning:

- "Principles and Standards in the field of Adult Education in B&H", which presents a legal basis for the
  action of educational and other authorities at all levels of government in Bosnia and Herzegovina.
  The principles and standards defined in this document determine the principles and standards for
  building, developing, implementing and coordinating the policies and legislation that govern the field
  of adult education in Bosnia and Herzegovina and for monitoring, evaluating and analysing the state
  of play in this field.
- 2. "Strategic Platform for Development of Adult Education in the Lifelong Learning Context in B&H, for the period 2014-2020", which presents a legal framework and basis for the action and cooperation of the authorities at all levels of government in B&H with the aim to adopt and fully implement the necessary strategic and/or development documents regarding adult education.
- 3. "Action Plan for the Development and Implementation of the Qualifications Framework for Adult Education in B&H for the period 2014 -2020", which represents a plan for key activities for the development and implementation of the qualification's framework in Bosnia and Herzegovina.

#### **Living conditions**

According to the Law on Urban Planning and Construction published Official Gazette of Republika Srpska, 40/13, the Rulebook was enacted on the requirements for planning and designing facilities for free movement of children and persons with reduced physical capacities. This Rulebook refers not only to old

<sup>&</sup>lt;sup>26</sup> Source: https://unece.org/fileadmin/DAM/pau/age/country rpts/2017/BIH report.pdf

<sup>&</sup>lt;sup>27</sup> Source: <u>www.mcp.gov.ba</u>



persons, but it determines access to buildings, designing of buildings, planning of the spaces of public roads and pedestrian areas, etc.

#### **Social inclusion**

The Central Election Commission of B&H<sup>28</sup> enacts regulations that determine the way and procedure of developing the part form the Central Voters Register for voters who are tied to their home due to old age, illness or disability. These guidelines prepared as inclusion measure for vulnerable groups for elections in B&H focus on "target groups within a target group" (e.g., in the target group of women, the focus should be on older women).

# **Social policy**

At the state level, there is no common social policy. The Ministry of Civil Affairs of B&H coordinates the activities in the field of social policy and coordination with relevant entity authorities. This Ministry of coordinated the project "Support to the Social Service Providers and Enhancement of the Monitoring Capacities" (EU SOCEM 2015 - 2017) with the aim to improve the social protection of socially vulnerable groups, and improve monitoring, reporting and promoting human rights. The project was financed by the EU in B&H and implemented in the social welfare services in 12 municipalities in Federation Bosnia and Herzegovina and Republika Srpska.

#### **Mental Health**

Within the Ministry of Civil Affairs of B&H, the Regional Health Development centre on Mental Health in South East Europe (SEE) operate as part of the South East Europe Health Network (SEEHN)<sup>29</sup>. This centre has contributed to the improvement of reforms in mental health in the region (including B&H) by following international guidelines and documents.

# 6. Bulgaria

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(National, regional, local) policies on Smart Healthy Age-Friendly Environments

The research focused on several categories, studying in further details the demographic composition of the country, including predictions for the next 30 years; the quality of life of the elderly, particularly in comparison to other European citizens, the pension system and its progression over time; the economic development of the country; the capabilities and limitations of the healthcare system; the logistics behind the National Health Insurance and the main Private Insurance companies currently on the market, as well as Patronages and Charities which also attend to the needs of the elders.

Based on the findings of this analysis, we can deduce that the country is facing the same difficulties regarding its aging population as other members of the Union and can benefit from solutions which aim to improve the quality of life of its citizens and focus significantly on preventative healthcare and healthy

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<sup>&</sup>lt;sup>28</sup> Sour

ce: https://www.izbori.ba/Default.aspx?Lang=6

<sup>&</sup>lt;sup>29</sup> Source: <a href="http://seehn.org/bosnia-herzegovina/">http://seehn.org/bosnia-herzegovina/</a>



lifestyle, as this is particularly not prevalent in Bulgaria, where the policies of the country, and the spendings of the National Health Insurance are not driven in the direction of pre-care, but rather entirely directed towards treatment of chronic illnesses and other diseases (post-care).

Due to the economic hardships the country has been through since World War II, many of the public hospitals and clinics are not maintained well and lack the funds to invest in digitalisation, which restricts the sharing of data and the communication with the elderly, who are also not as tech savvy as some of their western contemporaries.

This is why such digital solutions, though incredibly needed, might be slow to get established on the market and the elderly could require additional time to get used to and acquainted with, the various proposed devices. Furthermore, the financial limitations and low spending power of the citizens allows only for the most cost effective services, if they are to be sustainable long term, which is why, based on this study, it is recommended that the project rolls out simple (basic) and very affordable solutions at first, until trust is gained and consciousness is shaped more in line with the preventative efforts AgeWare is focused on, and more information becomes available on the use of digitalisation to prolong longevity. As each generation becomes more comfortable with navigating new technology, such solutions are expected to pick up speed and become more popular, especially if they focus on providing accurate and reliable data and work on building a brand which inspires trust and confidence in the community.

# **Demographics**

Total population of the country: 6,908,039 [1]

Of which elderly: (65+): 1,504,088 or 21.6% [2]

Divided per age group:

65 – 69 years: 473,587 [3]

70 – 74 years: 401, 524 <sup>[4]</sup>

75+: 618,008 [5]

Life expectancy: ≈ 75 years [6]

Females: 78 years [7]

Males: 71.1 years [8]

People of working age in the country: 4,156,000 or 60% of the total population [9]

**Projections** 

### 1.1.1 Total population



Total	6 942 142	6 735 715	6 527 464	6 325 238	6 135 500	5 959 147	5 791 137
0 - 4	325 186	295 722	273 143	267 189	270 779	270 716	263 039
5 - 9	334 258	324 909	295 620	273 146	267 270	270 954	270 974
10 - 14	346 954	334 064	324 852	295 665	273 245	267 440	271 198
15 - 19	315 724	347 484	336 145	327 211	298 029	275 150	269 133
20 - 24	309 294	315 447	351 685	343 320	334 487	304 638	280 175
25 - 29	370 831	309 363	315 718	352 453	344 181	335 435	305 606
30 - 34	477 122	369 766	308 677	315 230	352 319	344 316	335 662
35 - 39	479 366	474 710	368 007	307 387	314 057	351 227	343 377
40 - 44	522 547	475 397	471 082	365 374	305 420	312 210	349 339
45 - 49	527 798	514 883	469 009	465 173	361 112	302 219	309 183
50 - 54	489 854	515 048	503 379	459 467	456 512	354 892	297 592
55 - 59	462 107	471 237	497 281	487 500	446 390	444 708	346 535
60 - 64	465 141	435 998	447 416	474 507	467 140	429 638	429 586
65 - 69	449 659	427 570	404 077	417 919	446 024	441 484	408 310
70 - 74	431 588	398 524	383 115	365 687	381 996	410 991	409 651
75 - 79	293 108	358 467	336 659	328 353	317 628	336 498	366 140
80 - 84	193 310	212 377	267 094	257 129	256 152	252 722	273 787
85 - 89	109 559	108 286	124 751	162 953	162 332	166 565	169 023
90 - 94	33 151	39 663	41 449	50 657	69 243	71 867	76 378
95 - 99	5 377	6 511	7 952	8 526	10 733	14 888	15 654
100+	208	289	353	392	451	589	795
Years	2020	2025	203	30 203	5 204	40 20	45 2050

[10]

# 1.1.2. Elderly population

Years	2020	2025	2030	2035	2040	2045	2050
65 - 69	449 659	427 570	404 077	417 919	446 024	441 484	408 310
70 - 74	431 588	398 524	383 115	365 687	381 996	410 991	409 651
75 - 79	293 108	358 467	336 659	328 353	317 628	336 498	366 140
80 - 84	193 310	212 377	267 094	257 129	256 152	252 722	273 787
85 - 89	109 559	108 286	124 751	162 953	162 332	166 565	169 023
90 - 94	33 151	39 663	41 449	50 657	69 243	71 867	76 378
95 - 99	5 377	6 511	7 952	8 526	10 733	14 888	15 654
100+	208	289	353	392	451	589	795
Total	1 515 960	1 551 687	1 565 450	1 591 616 1	644 559 1	695 603	1719738

[11]

# 1.1.3. Old Age dependency projections

Years	2020	2025	2030	2035	2040	2045	205012
Bulgaria	34.30	36.69	38.48	40.84	44.69	49.08	52.65
Male	27.14	29.09	30.80	33.33	37.33	41.86	45.66
Female	41.67	44.54	46.41	48.58	52.29	56.54	59.86

[12]

# 1.2. Elderly

# 1.2.1. National data



Bulgaria is facing rapid population aging, with 5 out of 6 administrative regions having at least 20% of their population being above the age of  $65^{\frac{[13]}{13}}$ , which ranks Bulgaria at  $6^{th}$  place in EU, in terms of percentage of the total population  $\frac{[14]}{13}$ .

The current life expectancy at birth for men is 71 years and 78 years for women. Although these rates are lower than those for Western nations, they correspond with the rates of neighboring countries<sup>[15]</sup>, and are on par with the average age of the world population <sup>[16]</sup>. Despite the country making significant progress in the last two decades, moving from a life expectancy of 72 years in 2000 to 75 in 2017<sup>[17]</sup>, latest data still places the country last in the EU<sup>[18]</sup>.

### 1.2.2. Quality of life

#### **Historical Overview**

"The political, social, and economic history of Bulgaria has had a profound impact on the aging and demographic landscape of the country. From 1944 to 1989, Bulgaria was a communist nation under the rule of the Soviet Union. After the collapse of communism in 1989, Bulgaria underwent a major economic transition. The post-communist changes transformed the nation from a one-party state, characterized by a nation-owned economy, to a pluralist democracy with a market-driven economy. By entering the European Union in 2007, Bulgaria further stabilized its political and economic structures. Many of Bulgaria's demographic realities, policy concerns, and emerging issues can be traced to these political, social, and economic transitions." [19]

This recent history has directly affected the quality of life and living standards of Bulgarians, with Eurostat finding in 2017 that 2.5 million Bulgarians (35% of total population) have been living in poverty and are categorised as severely deprived meaning they cannot afford to pay their bills or heat their homes. [20] Furthermore, National Statistics Institute shows that in 2016, 1.6 million, or 23%, lived below the poverty line, which was then amounted to 308.17 leva, with a minimum pension for the same period of 157 leva [21], resulting in a poverty rate of 35% for those aged 65+ compared to EU average of 15.5% as per latest statistics [22]. This made Bulgaria the EU country with the highest proportion of elderly at risk of poverty and social exclusion - 58% (as per 2014 data). [23]

Taking into consideration the lack of private pension funds and insurance companies during the Soviet Union rule, and adding to that the astonishing hyperinflation that came after - during the transition, hitting a peak of 242% for one month (in February 1997)<sup>[24]</sup> meant that many elderlies today are left with no savings, and are completely dependent on the government and their limited pensions for survival.

This to a great extent explains the discrepancies between the quality of life of the population, particularly the older one, that is witnessed in western nations in comparison to that of Bulgarians, or its neighbouring / former Soviet ruled countries. Below is a table, extracted from Eurostat, which albeit limited, demonstrates the differences between the daily lives observed throughout the Union, valid for the years 2015 - 2016 [25]

Parameter	Bulgaria	Romania	EU Average	Finland
-----------	----------	---------	------------	---------



Expected healthy years, after 65	F 9.5	F 5.7	F 9.4	F 9.0
	M 8.7	M 6.3	M 9.4	M 9.3
Elderly who live alone	32.1%	35.6%	33.8%	39.5%
Share of economically active between the age of 65 and 74	7.2%	15%	9.5%	10.8%
Share of elderly who travel	11%	13.5%	48.8%	70.8%
Share of elderly who use internet at least once a week	12%	13%	45%	66%

Despite the hardships the country has faced in it's recent past, Bulgaria is ranked 51st according to the Human Development Index (HDI), which "measures a country's development based on factors such as life expectancy, the standard of living and education". This places it above its Eastern Europe neighbors such as Macedonia, Albania and Serbia. Furthermore Bulgaria's HDI value has increased 17.1 percent, from 0.694 to 0.813, between 1990 and 2017 and is now considered in the very high development category. [26]

Moreover, the Quality of Life Index<sup>[27]</sup>, another measurement for the living conditions of the citizens, gives Bulgaria a score of 126.71, which is considered "High". Further breakdown below:

Purchasing Power Index	43.61	Very Low
Safety Index	61.44	High
Health Care Index	56.20	Moderate
Climate Index	82.76	Very High
Cost of Living Index	39.73	Very Low
Property Price to Income Ratio	9.21	Moderate
Traffic Commute Time Index	29.45	Low
Pollution Index	65.43	High
f Quality of Life Index:	126.71	High

This is one of the reasons why Bulgaria is also very attractive for expats and particularly those looking to retire. [28] Property is considered affordable, and so is the cost of living. Taxes are also low, and private healthcare is cheaper than that of other European countries, whereas quality is very much the same, so the country has been attracting more and more foreigners, looking to improve their lifestyles while also cutting down on costs.

### 1.2.3. Pensions



In 1995 Bulgaria introduced voluntary private pensions and the system has been gradually reforming ever since and currently consists of four pillars. [29] In 2015, Bulgarians were given the option to choose between the pillars once a year, until 5 years before retirement. [30]

First Pillar - Public Pensions

The government updated it's strategy in 2000 (from a former PAYG system) to lower the overall contribution rate and increase the employee contributions. Currently the employees pay 8.05% of their gross income, and the employers contribute 14.95%. [31]

In addition, the government has been gradually raising the retirement age to now 61years and 6 months for women (with 35 years and 10 months employment) and 64 years and 3 months for men (with 38 years and 10 months employment)[32].

Furthermore, there are two types of pensions - social one and a minimum one. The social one is available to those over 70 whose "annual income per family member was less than the national guaranteed minimum income for the 12 months preceding retirement." [33]

The minimum pension is 115% of the social pension and is paid to individuals with "low income and/or an incomplete work history." (The maximum amount for that is four times the social pension.)[34]

Second Pillar - Mandatory Individual Accounts

The second pillar consists of Occupational Pension Funds (OCFs) and Universal Pension Funds (UPFs).

The OPFs sololey for employees working in hazardous environments and allow for early retirement. The contributions are made exclusively by employers and depend on the job category. Further voluntary contributions are not allowed and the overall income is exempt from Personal Income Taxes and Corporate Income Taxes.

The UPFs cover the remaining employees, including those that are self-employed. Participation is obligatory for those born after December 31, 1959. Contributions are 5% of the salary, going towards a provider of their choosing. Further voluntary contributions are not permitted. [35]

Third Pillar - Voluntary Pension Funds

Voluntary private pension funds (VPFs) were introduced in the mid-1990s to help raise the private pension savings. They are available to anyone over the age of 16, and contributions are up to 10% rather than 5%. Contracts are drawn between the pension fund managing company and the contributor, with the benefits being paid out either periodically or at once. [36]

Fourth Pillar - Voluntary Occupational Schemes

The Voluntary Operational Schemes have been operating since 2007, and resemble those in Western Europe. The coverage is determined on the basis of collective employment contracts and provides benefits in the form of "fixed-term pensions, lump-sum payments or phased withdrawals to participants when they reach the age of 60"[37]



#### 1.2.4. Funds

Bulgaria has gradually been working on increasing the pension funds, with the average per capita rising significantly throughout the past decade, as seen in the table below:

		2012	2015	2018
		of pensioners	of pensioners	of pensioners
A	Total	4168.0	4702.0	5526.0
Average per capita - BGN	Pensions	3189.0	3731.0	4211.0

In 2019, it was voted that all pensions are to increase by 6,7% from the following year. For that, the government has directed 10,576 billion leva - a 729,1 million raise from the year before.

The effect this will have on the minimum pension is a 14.70 lev increase - from 219.43 BGN to 234.13 BGN and the social pension will rise to 141.63 BGN. The average will reach 412.28 (a 31 lev increase from 2019) whereas the maximum will stay at 1,1400BGN. [39]

#### 1.2.5. Healthcare

"The current healthcare system is a complex bureaucratic structure that was created during the years of Socialism (1945-1989) and is still going through deep reforms to meet the modern standards. After the accession of Bulgaria into the European union in 2007, the health policies of the Government aim to meet the requirement of the EU. Bulgaria is in the European region of the World Health Organization and is following the European policy for health and well-being: "Health 2020". However, numerous issues are yet to be solved, including the economical instability of the healthcare system, the underfunding of hospitals and the unaffordably high prices of medication."

"The Ministry of health of Bulgaria is the central institution that is responsible for the implementation of the official government policies throughout the country. The main administrative organ on the management of the National health system is the Minister of healthcare who is assigned by the government and is responsible for the control on the activities of all institutions. A High Medical council, which includes representatives of the National health insurance fund, all Medical universities and the Bulgarian Red Cross is elected by the minister. This High council discusses and makes decisions for the national health strategy, draft legislation, the criteria for the admission of students in medical universities, scientific priorities in the area of medicine and the annual draft budget for healthcare. A significant influence on healthcare in Bulgaria has the Bulgarian medical association, which was established in 1901 and is the second professional medical association in the world (after the British Medical association). During some periods in history, the Bulgarian medical society has even had the functions of a Ministry of healthcare.

Regional health inspectors are responsible for the administration of district hospitals and the application of the government policies and international standards locally, control over all medical activities, the provision of statistical information and also ensure that laws like the ban on smoking



in public places are effectively enforced. There is a health inspectorate in every administrative region of the country." [41]

Bulgaria has a universal state funded healthcare which covers primary treatments for those who are insured and works under the principle of "healthcare for all". The staff are highly trained although sometimes there is a shortage of nurses and even doctors, especially away from the major cities, where the infrastructure is also in poor condition and needs to be upgraded. [43]

Nevertheless, the government continues to expand the funds dedicated for healthcare and many public hospitals are now equipped with the latest technology and are competing with the private sector, offering "services and treatment of European quality at competitive prices". [44]

Facilities both private and public offer a wide range of services in the fields of "plastic surgery, dentistry, prophylaxis, surgery, dermatology, rehabilitation, ophthalmology, sports medicine and any other desired by the needs of the patient." [45] Furthermore, the "unique combination of mountain and sea resorts with numerous mineral springs makes Bulgaria a preferred tourist destination for spa and rehabilitation." [46]

#### 1.2.6. Health establishments

Health establishments as of 31.12.2019 [47]

Establishments	Number	Beds
Health establishments for hospital aid	341	53 997
Hospitals	319	51 776
of which:		
Multi profile hospitals	184	38 249
Specialized hospitals	135	13 527
Dermato-venereological centres	3	30
Complex oncological centres	7	1 169
Mental health centres	12	1 022
Outpatient health establishments	2 079	1 223
Diagnostic and consulting centres	111	299
Medical centres	738	844
Dental centres	55	9
Medical-dental centres	47	71
Medical-diagnostical and medical-technical laboratories	1 128	-
Other health establishments	144	1 914
of which:		
Centres for urgent medical aid	27	-
Hospices	44	1 103
Homes for medico-social care for children	13	809
National centres without beds	4	-
Regional health inspections	28	-

Medical Personnel - Total

There are a total of 29,612 physicians; 7,376 dentists and 46,491 health care medical specialists, as of 31.12.2019. [48]

Per number of population - Total



There are currently 235 citizens per doctor and 942 per dentist, as per 31.12.2019 data. [49] 2.

# 1.2.7. Mortality

The biggest causes for mortality are cardiovascular diseases and cancers, while smoking remains one of the main factors, with smoking rates highest in the EU, and smoking-related deaths twice as high than the EU average. [50] "In 2015, 36.8% of the adult Bulgarian population smoked tobacco products" (40% of men and 25.4% of women) [51], not including adolescents where it is also widespread. [52]

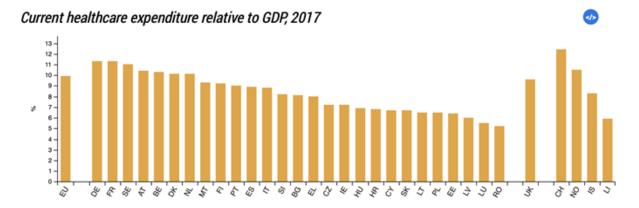
Alcohol consumption is also slightly higher that of other European countries, where the "alcohol per capita consumption of those older than 15 years of age is 11.4 L of pure alcohol as compared to the regional 10.9 L" [53]

Divided per diseases, the leading causes of death are: heart disease (34.4%), stroke (23.8%), chronic obstructive pulmonary disease (4.1%), lung cancers (3.7%), colon-rectum cancer (2.6%), lower respiratory infections (2.1%), diabetes (2%), cardiomyopathy (1.8%), and cirrhosis of the liver  $(1.6\%)^{[54]}$ 

### 1.2.8. Financing

As per WHO's official website data (2014) Bulgaria spends 8.4%<sup>[55]</sup> of its GDP on healthcare, which according to a 2018 article<sup>[56]</sup>, is more than other new EU member states, but still places it 16th<sup>[57]</sup> overall. If calculated per capita, Bulgaria is far behind the EU average which for 2015 was 2,797 Euro, compared to the local 1,117 Euro.<sup>[58]</sup>

A breakdown of the EU healthcare spending per member state as per 2017 data, found in the Eurostat table below:



#### General

"Bulgaria has a mixed public—private health care financing system. Health care is financed from compulsory SHI (Social Health Insurance) contributions, taxes, out-of-pocket (OOP) payments, VHI (voluntary health insurance) premiums, corporate payments, donations and external funding." [60]

"Roughly half of total health expenditure is publicly financed and Bulgaria has exceptionally high out-of-pocket payments – 48% – the highest in the EU. Some 12% of the population lack insurance



coverage. The revenue base for the Social Health Insurance (SHI) remains narrow due to low incomes, many uninsured individuals and a large informal sector."  $^{[61]}$ 

# **Spendings**

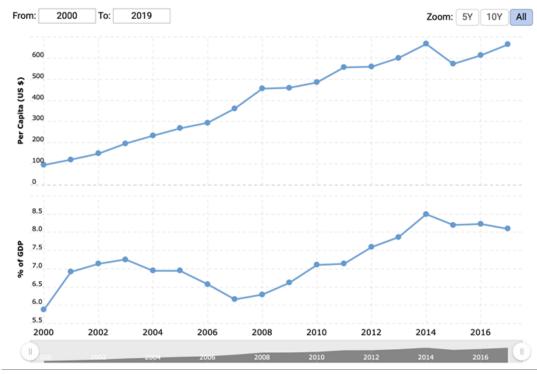
# Latest data available for 2013 [62]

	(Million BGN)
	2013
Current expenditures for hospitals -total (HF.1-HF.3)	2240.13
General Government (HF.1)	1891.38
social security funds - NHIF and NSSI (HF.1.2)	1568.38
Private sector (HF.2)	348.75
Households - individual consumption expenditures (HF.2.3.1)	347.28

	(Million BGN)
	2013
Current out-patient health expenditures - total (HF.1-HF.3)	1196.15
General Government (HF.1)	676.73
Private sector (HF.2)	519.43

# Trends

A historical overview of the healthcare spendings from 2000 onwards, from Macrotrends [63]





#### **Predictions**

"Overall in the EU, the total cost of ageing (public spending on pensions, health care, long-term care, education and unemployment benefits), is expected to increase by 1.7 percentage points to 26.7% of GDP between 2016 and 2070".

These costs will vary depending on the member states with costs falling in 8 of them, increasing by 3 percentage points in Bulgaria, among 9 others, and the rest are expected to rise above 3 points. [64]

#### 1.2.9. Healthy aging and preventative care

Unfortunately Bulgaria is one of the countries which continuously undermines the importance of preventative care, and that is widely considered one of it's biggest downfalls. [65]

As per a 2018 article, the National Health Insurance spends only 1,8% of its budget on tests, prophylactics and the encouragement of healthy lifestyle [66].

Furthermore, the concept of healthy aging seems to be lacking popular support from the members of society, with one article going as far as to say that is due to "prevailing ageism and negative stereotypes of older adults" who "can be seen as a burden to society and are perceived as not useful."

Whether true or not, it is evident that Bulgaria needs to focus more on preventative care and prophylactics, with one doctor claiming that 80% of strokes (which are the second most prevalent health related cause of death in the country) are due to lack of preventative care. [67]

With that being said, the government seems to be aware of its prevailing aging demographic and the need to address "active aging", which was discussed in a summit organised in 2016 together with the World Bank, when the then Minister of Labor and Social Policy advised it considered it a priority. [68]

One of the directions the current Health Minister is pushing towards is the digitalisation of the healthcare, as one of the biggest reforms up to date, which is expected to ensure better quality of the services, starting with electronic prescriptions and online informational system. [69]

#### 1.3.Insurance

#### 1.3.1. Public

### Background

"In 1924 the Parliament voted the "Public Insurance Act" which introduced the mandatory insurance of all workers and public servants in state and private enterprises and organizations against the risks incident, disease, maternity, invalidity and old age.[...]Medical care was delivered on behalf of the Public Insurance Fund in which 2/3 of the income was collected from the employers and from the state and 1/3 - from the employed. From the means of the Fund were



authorized loans for construction of health and social establishments. The insured persons had the right to a free choice of a medical doctor.

The changed socio-economic environment after 1944 reflected on health insurance in Bulgaria as well. In 1945 was passed the "Act on the Fund "Health Insurance of Employees, Retired Persons and Members of Their Families" by virtue of which the scope of the insured persons was enlarged. The Constitution of the People's Republic of Bulgaria (1947) set radical changes in the healthcare field. In 1948 - 1949 the private hospitals, clinics, dental unions and pharmacies were expropriated. After 1950 the health insurance principle in the financing of healthcare was replaced by the state health system which was financed through common tax incomes to copy the Soviet model system "Semashko".

The contemporary system of a mandatory health insurance is governed by the Health Insurance Act (1998, State Gazette # 70).

This political vote came in response to the heavy problems in the public taxation financed system of healthcare and as a continuation of the common tendencies in the countries of Central and Eastern Europe and of the historical tradition in the country.

The adopted Law governs at one and at same time the questions of the mandatory and voluntary health insurance. It creates a legislative framework for the organization of the mandatory health insurance to follow a public contract model." [70]

## **Current standing**

"In 1998, the National Assembly passed the Health Insurance Act (HIA). It introduced compulsory health insurance in our country. [...] Its main task is to carry out and administer the compulsory health insurance in Bulgaria, in its part concerning the management of the collected funds and payment of the used health activities and medicines (within a certain scope and volume) for the benefit of the health insured persons.

The NHIF operates in the country through the regional health insurance funds, which:

- Conclude contracts with medical care providers in the respective region general practitioners, outpatient medical specialists, dental doctors, hospitals, pharmacies;
- Control, by virtue of the contracts concluded, the implementation and operation of the outpatient, hospital, dental medical care and pharmacies;

Provide information to citizens on their rights and obligations [...]" [71]

#### Fees

National Insurance Fees are calculated as a percentage of the monthly income and are linked to the minimum wage, which has had the tendency of increasing each year and is currently at 610BGN<sup>[72]</sup>. This is not applicable to agricultural businessmen and tobacco producers, however, whose minimum insurance amount is 420 BGN<sup>[73]</sup>, instead of 610 BGN. In Bulgaria, there is also an upper limit, over which the amount you earn is not being insured for, which is also subject to change each year, but has been rather stable at 3,000 BGN<sup>[74]</sup>. Therefore, we can deduce that the



fee should be no less than 48.8 BGN, for anyone outside of the above mentioned exception, who only pay 33,60 BGN; and no more than 240BGN.

When employed, this amount is paid for by both the employer and the employee at a rate of 60:40. Those that are self employed cover the full costs, whereas the unemployed only cover 50% of the costs, based on the minimum wage for the year, which in 2020 amounts to 22,40 BGN.

Those who are unemployed and are receiving financial compensation for it, have their National Insurance Fee covered by the government. [75]

Same applies for pensioners, who do not have to pay a monthly fee to receive the covered national healthcare costs, unless they have additional income from occupational work which they undertake in their senior years. Once they become employed, they are insured in accordance to the above-mentioned rules, like everyone else. [76]

#### 1.3.2. Private

#### About

'In general, with the Private Health Insurance, the quality of the health services and the speed of the administrative service are far better than those of the NHIF. However, the use of Health Insurance does not cancel the obligation to pay the general health insurance to the NHIF. Health insurance can be taken out in person, but is often offered by employers as an additional benefit to the salary. Well-established and serious companies include Health Insurance as a social benefit for their employees.' [77]

### Supplementary insurance

Upgrades and supplements the volume of medical goods and services provided by the compulsory health insurance. Available only if you have continuous health insurance rights. [78]

#### Private insurance

Private insurance - independent of the compulsory health insurance system. It is available to both health insured and uninsured Bulgarian citizens, and foreigners.

#### **Downsides**

'The "clients" of health insurance companies are mostly large companies. The more employees are involved, the cheaper the insurance packages get.

If you want to get insurance as an individual, this would be a solid amount, which - depending on the selected package, you may or may not "spend" during the year. Some companies do not even offer the option to insure as a private person and are oriented entirely to the corporate market. [...]

The price of the packages varies both according to the coverage of the services and according to the individual applicant, as they take into account age, medical history, current health... For example, for people of retirement age taking out such insurance would be much more complicated and expensive. [...]<sup>7</sup> [79]



#### Fees

'The price ranges from 15 BGN to 60 BGN per month, depending on the following factors:

How many people are insured - the higher the number, the lower the price;

Average age of the insured persons;

Male / female ratio;

Covers included (ie what type of medical expenses can be covered if needed);

Limits (ie the maximum amounts that can be paid);

Form of service - subscription (the client uses medical institutions from the list of the insurance company) or reimbursement of costs (the client goes to the medical institution / specialist of their choice and then the company reimburses the costs);

So called "damage quota". Upon renewal of the Health Insurance Contract, the insurance company may increase prices if it has had to pay amounts too often. (The most common reason is the unscrupulous use of the service by the customer). On the other hand, if the benefits paid were below a certain threshold (the damage quota in question), insurance companies may offer a renewal discount)' [80]

#### 1.3.3. Providers

#### UNIQA

UNIQA Insurance Company Bulgaria is part of the international UNIQA Insurance Group and has been on the Bulgarian market for over 25 years. It has established itself as a 'symbol of reliability and fairness for its customers and partners'. UNIQA provides Bulgarian customers with 'modern insurance solutions based on a wide product portfolio' in all areas - of life insurance and beyond. Link to website: <a href="https://www.uniqa.bg">https://www.uniqa.bg</a>

#### Generali

'Generali Insurance has been operating on the Bulgarian market since 2006. The total gross premium income of the company for 2018 is over BGN 169 million, which assigns it a market share of over 8% and seventh place. The company has its own medical center - Generali Protection Medical and Dental Center, which is a medical institution for specialized outpatient care aimed at protecting, restoring and strengthening the health of patients, providing them with high quality medical care, following the rules of good medical practice.'

Link to website: <a href="https://www.generali.bg">https://www.generali.bg</a>

#### Euroins

'EUROINS Insurance Company is one of the first insurance companies in Bulgaria to receive a general insurance license, under the new insurance law of 1998.



The company's sales model is aimed at offering package insurance products, covering a wide range of risks and providing comprehensive insurance services to customers. The portfolio of EUROINS Insurance Company covers over 63 insurance products, which cover 18 types of insurance out of a total of 18 permitted to the general insurance companies in Bulgaria.'

Link to website: https://www.euroins.bg

Instrade

Instrate has been working on the Bulgarian insurance market for more than 25 years, establishing themselves as a 'regional leader in the field of insurance services and risk management'. They offer 'free insurance services' which 'meet the requirements of the world ISO standard'.

Link to website: <a href="https://www.instrade.bg">https://www.instrade.bg</a>

1.3.4. Support organizations

Charities

Red cross

Red Cross Bulgaria is a "humanitarian volunteer organization, working according to its Statutes and the principles of the International Red Cross Movement, committed to providing support to vulnerable people victims of crisis and disasters in order to improve their life and dignity and relieve their suffering."

Link to website: <a href="https://www.redcross.bg">https://www.redcross.bg</a>

Other

**Private Patronage** 

Private Patronage is a new service, offered for the first time, to help the elderly in Sofia and the surrounding area. It includes delivery of a lunch menu, or a lunch and evening menu to the home. Private patronage helps people who, for social or health reasons, cannot afford fresh food every day.

Link to website: http://patronaj.net

Who do you identify as relevant stakeholders and policy makers in your country?

Bulgaria			
	Local	Regional	National



Health	Hospitals, Clinics, four medical universities – Sofia, Plovdiv, Varna and Pleven. One medical faculty in Sofia University.	28 Regional Health Inspectorates	Ministry of Health  https://www.mh.government.bg//  Regional Health Inspectorates  https://www.mh.government.bg/en/ministry/secondary-authorizing-officers/regional-health-inspectorates/
Social	Municipalities – Social Patronage	28 Regional Agencies for Social Assistance	Ministry of Labour and Social Policy <a href="https://www.mlsp.government.bg/">https://www.mlsp.government.bg/</a> Agency for People with Disabilities <a href="http://ahu.mlsp.government.bg/home/">http://ahu.mlsp.government.bg/home/</a>
Built environme nt	Municipalities, Local government units, local developers and construction companies, local public and private houses for aging persons.	28 Regional Development Agencies	Ministry of Regional Development and Public Works  https://www.mrrb.bg/
Digitalisati on	Municipalities, local government units, private IT companies	28 Regional MTITC Agencies	Ministry of Transport, Information Technology and Communications – MTITC  https://www.mtitc.government.bg/  Ministry of Education and Science



Developme nt	Municipalities, local government units, local private companies	28 Regional Development Agencies	Ministry of Regional Development and Public Works  https://www.mrrb.bg/
			Ministry of Economy <a href="https://www.mi.government.bg/">https://www.mi.government.bg/</a>
Education	Municipalities, local government units, local and public and private schools and universities	28 Regional inspectorates of Ministry of Education and Science	Ministry of Education and Science  https://www.mon.bg/
Research	Municipalities, local and state Universities,	28 Regional inspectorates of Ministry of Education and Science	Ministry of Education and Science  https://www.mon.bg/  Bulgarian Academy of Science  https://www.bas.bg/

(National, regional, local) ecosystem on SHAFE you are involved in your country

List of relevant international projects where we have participated or currently participte

FP7 ICT "Experiential Living Labs for the Internet Of Things" – ELLIOT.

H2020 ACTIVEAGE: ACTivating InnoVative IoT smart living environments for AGEing well (SofiaPilot), (<a href="https://www.activageproject.eu">www.activageproject.eu</a>) AgeWare

H2020 Cross4Health project (cross4health.eu).

H2020 BOWI: Boosting Digital Innovation in Europe (bowi-network.eu), BOWI - AgeWare.

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# 7. Croatia

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(National, regional, local) policies on Smart Healthy Age-Friendly Environments

#### NATIONAL:

The National Council for the Retirees and the Elderly has been an advisory body for a number of years in Croatia. Through the National Council for the Retirees and the Elderly, senior persons are able to be included in creating and evaluating age-related policies.

Legislative and policy framework in place in Croatia:

- Social Welfare Act (Official Gazette (hereinafter: OG) 157/13, 152/14, 99/15, 52/16, 16/17, 130/17),
- Health Care Act (OG 100/18),



- Compulsory Health Insurance Act (OG 80/13, 137/13),
- Act on Protection of Persons with Mental Disabilities (OG 76/14),
- Act on the Croatian Register of Persons with Disabilities (OG 64/11)
- Professional Rehabilitation and Employment of Persons with Disabilities Act (OG 157/13, 152/14, 39/18),
- Ombudsperson for Persons with Disabilities Act (OG 107/07),
- Ombudsperson Act (OG 76/12),
- National Strategy for Equalization of Opportunities for Persons with Disabilities 2017 2020 (OG 42/17),
- Social Welfare Strategy for the Elderly in the Republic of Croatia for the period 2017 2020

The Anti-Discrimination Act was adopted (OG 85/08, 112/12). There are no different regulations or practices related to the age of persons with disabilities in Croatia. Persons with disabilities are not divided according to age groups but according to the degree of functional impairment; hence, there is no difference in treatment of the older people with disabilities compared to other age groups.

The Register of Persons with Disabilities of the Croatian Institute for Public Health on March 4, 2019, contained the following records: 247,772 adults (65+) of which 131,993 (53%) of male and 115,789 (47%) of female sex.

191,509 older persons with disability (65+) were certificated in the Croatian Pension Insurance Institute and are entitled to some of disability rights from that field.

According to the processed data of the Register and the Reference Centre of the Croatian Ministry of Health for the Protection of the Health of the Elderly, in the year 2016 there were 511,064 persons with disabilities, 42.6% of them of age 65 and over. Of the 217,841 older persons with disabilities, 49.7%, were in the early old age (65-74 years) 35.7%, in middle old age (75-84 years) and 14.6% in the deep old age (85 and over).

Ministry dealing with Family and Social Policy provides various support services, such as:

- providing community-based housing (more than 1,000 service users included),
- assistance at home, personal assistant (over 1,700 users of service, including people over the age of 65),
- a sign language interpreter (employing 80 interpreters of the sign language who provide service to the elderly with hearing impairment),
- assistant with healthy vision (35.5 assistants employed who provide service to the elderly over 65 years, as well).

The Croatian Health Insurance Institute (hereinafter: CHII), compliant to Compulsory Health Insurance Act conducts and regulates compulsory health care insurance.

Under the conditions prescribed by the Social Welfare Act, persons with disabilities and the elderly can also acquire other rights from the social welfare system that are not necessarily related to the health condition of the person.

The National Program on Palliative Care Development in Croatia 2017-2020 (hereinafter: National Program), adopted by the Government of the Republic of Croatia (hereinafter: GoC) on 18 October 2017, includes



activities for the further development of palliative care systems according to established palliative care needs, in accordance with the White paper on standards and norms for palliative care in Europe, with the further establishment of organizational forms and mutual linking of palliative care stakeholders, continuing palliative care education, adopting national guidelines and recommendations for palliative care provision and development, and suggestions for improving palliative care for patients and their families.

#### **REGIONAL** and LOCAL:

- According to the Social Welfare Act local and regional self-government units are obliged to participate in
  the social welfare of the population in their area in accordance with their financial and other possibilities.
  Each local and regional self-government unit issues its own general regulations on social welfare in a way
  that autonomously defines priorities in its jurisdiction.
- In October 2020 in Zagreb the 2020-2024 Strategy for Improving the Quality of Life for Older Persons was presented: "The 30-measure strategy, which was presented on the occasion of the International Day of Older Persons, observed on 1 October, will be implemented in six fields: social protection, healthcare, lifelong learning, various aspects of free time, human rights, and civil society, said Romana Galic, the head of the city department for social protection and persons with disabilities." [source: <a href="https://www.total-croatia-news.com/news/47052-older-persons">https://www.total-croatia-news.com/news/47052-older-persons</a>]
- Local government units establish gerontology centres (usually in the homes for the elderly), in which noninstitutional or daily care for the elderly, including those with disabilities, is organized
- Reference Centre of the Croatian Ministry of Health for the Protection of the Health of the Elderly has started educating the formal and informal caregivers for persons suffering from Alzheimer's disease and other kinds of dementia (the dementia is becoming more and more common form of disability and is a major burden for the affected families)
- in the homes for the elderly, a program of 4 levels of geriatric health care is implemented, which enables the categorization of individual gerontology of insured person with the implementation of measures and procedures and activities
- a mobile gerontology-dental team was established in the City of Zagreb to improve the availability of oral health care for elderly
- The Economics of Ageing in Croatia, University of Zagreb Faculty of Economics and Business: <a href="https://www.efzg.unizg.hr/UserDocsImages/MGR/ssmolic/ESTARENJA/brosura\_eng\_preview\_03-12-2014.pdf">https://www.efzg.unizg.hr/UserDocsImages/MGR/ssmolic/ESTARENJA/brosura\_eng\_preview\_03-12-2014.pdf</a>
- Legal Protection Of Older Persons (Including Elderly With Mental Disorders) From The Croatian Perspective: Why We Need A Special Un Convention On The Rights Of The Older Persons:
  - S. Roksandić Vidlička i S. Šikoronja, "PRAVNA ZAŠTITA STARIJIH OSOBA, OSOBITO S DUŠEVNIM SMETNJAMA, IZ HRVATSKE PERSPEKTIVE: ZAŠTO NAM JE POTREBNA KONVENCIJA UN-A O PRAVIMA STARIJIH OSOBA", Zbornik Pravnog fakulteta Sveučilišta u Rijeci, vol.38, br. 3, str. 1101-1129, 2017. [Online]. <a href="https://doi.org/10.30925/zpfsr.38.3.7">https://doi.org/10.30925/zpfsr.38.3.7</a>

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
		0	



Health	+	+	+
Social	+	+	+
Built environment	+	+	+
Digitalisation		+	+
Development			+
Education		+	+
Research			+
Other: please specify			
Other: please specify			

(National, regional, local) ecosystem on SHAFE of the partner

NA

(National, regional, local) funding opportunities on SHAFE

**EUROPEAN FUNDS FOR CROATIAN PROJECTS** 

Examples of relevant business models, and sustainability means

**Activities to address and implement SHAFE** 

**Strategies** 

# 8. Cyprus

Contributor: Dr Areti Efthymiou

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

- The eHealth activities are in an early stage in Cyprus. Usually, they are developed as part of research initiatives by universities and private sector.
- In 2015 the eHealth legislation was approved by the Cypriot government. In 2019 the government established the national eHealth authority (Chair: <a href="mailto:Christos Schizas@ucy.ac.cy">Christos Schizas@ucy.ac.cy</a>)
- In an early stage, as a public initiative towards this domain, the electronic medical record system was
  tested at the Nicosia and Famagusta General Hospitals and there is a plan for an organised digital
  system to monitor hospital internal processes and regional eHealth networks: including aspects of
  telemedicine, smart homes, and ambient assisted living services.
- In the same framework, two municipalities in Cyprus have initiated the process to be part of the <u>healthy cities network</u>, but still the process is not completed.
- Many projects are part of academic initiatives and only a handful of cases are focusing on older adults:
  - <u>TILEPROMITHEAS</u> <u>Transforming care for those in intensive care units</u> (Dr Theodoros Kyprianou, kyprianou.t@unic.ac.cy



- <u>Cherries responsible Healthcare Ecosystems- Open call for Cyprus</u> (Mr. Moyses Moyseos (EUBIC CyRIC): m.moyseos@cyric.eu)
- o Centre of excellence
  - HealthXR (Dr Maria Matsangidou, matsangidou.m@gmail.com)
- eHealth Lab University of Cyprus (Constantinos Patichis <u>pattichi@cs.ucy.ac.cy</u>, <u>Christos</u>
   Schizas, schizas@ucy.ac.cy
  - Integrated National eHealth Ecosystem
  - Long Lasting Memories (Dr Marios Neofytou mneoph@cs.ucy.ac.cy)
- At the moment, there are no public eHealth services targeting older adults or Smart Healthy Age-Friendly Environments in Cyprus. Types of services for older adults are:
  - 1) The multipurpose centre in Nicosia provides activities for older adults e.g., home care, transportation, breakfast, coffee and lunch, physiotherapy and exercise, art courses, lectures, cooking, health assessment (sensory tests), excursions and consultation (Link in Greek: <a href="https://www.nicosia.org.cy/el-GR/municipality/multipurpose-centre/">https://www.nicosia.org.cy/el-GR/municipality/multipurpose-centre/</a> (Katerina Koni, Katerina.Koni@nicosiamunicipality.org.cy)
  - o 2) day centres (social welfare services)
  - 3) nursing homes (social welfare services)
  - 4) home care (social welfare services)

### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National	
Health			Ministry of Health	
Social			Ministry of Labour, welfare and	
			social insurance	
Built environment			Ministry of Internal affairs-	
			construction department	
Digitalisation		University	Ministry of Health	
		departments	National eHealth Authority	
		eHealth Lab		
		Cyprus Neuroscience		
		and Technological		
		Institute		
Development			Ministry of Energy commerce and	
			industry	
Education			Ministry	
Research		University	Directorate General for European	
		departments	Programmes, coordination and	
			development	



	Research	and	Innovation
	Foundation		

(National, regional, local) ecosystem on SHAFE of the partner: NA

(National, regional, local) funding opportunities on SHAFE

- <u>Cherries responsible Healthcare Ecosystems- Open call for Cyprus</u> (Mr. Moyses Moyseos (EUBIC CyRIC): m.moyseos@cyric.eu)
- https://www.research.org.cy (New funding programmes for Research and Innovation with a budget of €15 million- Press release 15 April 2021)
  - Horizon
  - AAL (Iria Loukaidou, iloucaidou@research.org.cy)
- https://www.erasmusplus.cy/IDEP-Dia-Biou-Mathisis (IΔΕΠ)
- Directorate of European Investment funds: <a href="https://www.fundingprogrammesportal.gov.cy/easyconsole.cfm/page/progsearch/rand/0.">https://www.fundingprogrammesportal.gov.cy/easyconsole.cfm/page/progsearch/rand/0.</a>

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- Examples of relevant business models, and sustainability means
- Activities to address and implement SHAFE
- Strategies

# 9. Czech Republic

Contributors: Lenka Lhotská, Lucie Vidovićová

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

Digital Czech In its Resolution No 629 of 3 October 2018, the Czech Government approved the cross-sectional strategic document Digital Czech Republic, which deals with all the effects of digitization on the economy and society. It is a set of concepts that create the conditions for the long-term prosperity of the Czech Republic. Its content can be defined as follows: "Strategy of Coordinated and Comprehensive Digitization of the Czech Republic 2018+". "Digital Czech Republic" covers three pillars (partial strategies) that form one logical unit. It covers areas ranging from the interaction of the Czech Republic in the European Union in the digital agenda, through digital public administration to the preparation and interaction of the Czech Republic's society and economy for digitization. Link: https://www.mpo.cz/en/business/digital-society/digital-czech-republic--243601

Policies in the making:

Working document summarizing the area of assistive technologies and the possibilities of their use in social, health and informal care systems (Pracovní dokument shrnující oblast asistivních technologií a možností jejich využití v systémech sociálních, zdravotních a v systému neformální péče)



http://www.podporaprocesu.cz/pracovni-dokument-shrnujici-oblast-asistivnich-technologii-a-moznosti-jejich-vyuziti-v-systemech-socialnich-zdravotnich-a-v-systemu-neformalni-pece/

Ministry of Labour and Social Affairs Preparation for Ageing (<a href="https://www.mpsv.cz/seniori-a-politika-starnuti">https://www.mpsv.cz/seniori-a-politika-starnuti</a>) – an expected strategy for 2021 – 2025 (not published yet)

# Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	general practitioners	regional governments,	Ministry of Health
		hospitals;	
		senior advocacy	
		groups	
Social	social services	regional governments,	Ministry of Labour and
	municipalities	NGOs,	Social Affairs
		senior advocacy	
		groups	
Built environment	municipalities	regional governments	Ministry of Labour and
		Prague Institute of	Social Affairs
		Planning and	Ministry of Regional
		Development (and	Development
		similar in other big	
		cities)	
Digitalisation	municipalities	senior advocacy	Ministry of Industry
		groups	and Trade
Development	municipalities	regional governments	Ministry of Regional
			Development
Education	schools (primary,	universities,	Ministry of Education,
	secondary)	senior advocacy	Youth and Sports,
	senior advocacy	groups	universities
	groups		
Research	municipalities	Universities	Technological Agency
			(TAČR),
			universities,
			Academy of Sciences
Business	local start-ups and	local start-ups and	companies
	SMEs & companies	SMEs	

# (National, regional, local) ecosystem on SHAFE of the partner

The Voice of Rare Disease Patients in Europe – the Czech Republic - <a href="https://www.eurordis.org/member-search?country=Czech+Republic">https://www.eurordis.org/member-search?country=Czech+Republic</a>

ECHAlliance: <a href="https://echalliance.com/">https://echalliance.com/</a>



ECHAlliance Ecosystems are geographically focused, permanent, multi-stakeholder partnerships committed to break down silos, transform health and social care and create economic growth.. For the last ten years with the support of the European Commission, we've developed a methodology and approach on how to set up and manage and connect ecosystems in 55+ global locations.

The Czech Republic representation: <a href="https://echalliance.com/?s=czech+republic">https://echalliance.com/?s=czech+republic</a>

#### (National, regional, local) funding opportunities on SHAFE

- Technologická agentura ČR (TAČR) funding agency for the cooperative projects www.tacr.cz
- Czech Health Research Council @ Ministry of Health <a href="http://www.azvcr.cz/en">http://www.azvcr.cz/en</a>
- Operational programs, EU Funds Operační programy <a href="https://www.esfcr.cz/">https://www.esfcr.cz/</a>
- Ministry of Industry and Trade funding opportunities:
- https://www.mpo.cz/cz/podnikani/dotace-a-podpora-podnikani/
- https://www.mpo.cz/cz/podnikani/dotace-a-podpora-podnikani/optak-2021-2027/

# Examples of relevant business models, and sustainability means

# **Activities to address and implement SHAFE**

Life90 / Gerontological Institute (Život 90) a regional and local community centre, providing various types of services, educational and cultural activities and respite care. They are pioneers in the provision of emergency red button for older adults supported by the 24/7 telephone support and supervision. Via their Gerontological Institute they are involved in various types of senior advocacy and policy lobbing. In cooperation with the Masaryk University and Czech Technical University in Prague CIIRC they are testing the humanoid robot Pepper for the community usage and active ageing support. www.zivot90.cz

# 10. Denmark

Contributor: Sonja Hansen

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

- Assisted Living Technology (Velfærdsteknologi & Hjælpemidler) <u>www.velfaerdsteknologi-aarhus.dk/english</u>
- Smart Aarhus Smart Aarhus (English)
- Local Government Denmark English (kl.dk)
- Ministry for Health www.sst.dk Health and wellbeing a good life
- Senior Housing <u>Seniorboliger OK-Fonden</u>

# Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	х	Х	х
Social	х	Х	
Built environment	х		
Digitalisation	х	X	X



Development	х	Х	
Education	х		х
Research	х	Х	х
Other: please specify			
Other: please specify			

Please contact sonha@aarhus.dk for further information

## (National, regional, local) ecosystem on SHAFE of the partner

- APP's Café older people and other's meet for helping each other with all kind of APP's <u>AppsCafé</u> (aarhus.dk)
- Electronically Care and Social System messages and documents can be sent between the region/hospitals and the municipalities/elder care system Digital Health Strategy in Denmark. Cooperation in an integrated network focused around citizens.
- House for Generations Big building with flats with many digital solutions and facilities for both older people and families, students and a kindergarten live together Generationernes Hus (aarhus.dk)
- Vito App for older people to find solutions/technologies for having a good life/wellbeing in their homes and on own conditions https://vito.nu/
- eHealth Platform Columna joint Clinical Information System across the Region Central Denmark's
   17 hospitals <a href="https://systematic.com/healthcare/solutions/care/columna-cura/">https://systematic.com/healthcare/solutions/care/columna-cura/</a>
- Region Central Denmark, 19 municipalities, companies, universities

### (National, regional, local) funding opportunities on SHAFE

- Innovations Fund Denmark About Innovation Fund Denmark | Innovationsfonden
- Industrial Fund <a href="https://industriensfond.dk">https://industriensfond.dk</a>
- Velux Foundation <a href="http://veluxfoundationsdk/en">http://veluxfoundationsdk/en</a>
- Tryg Fund http://trygfonden.dk
- Nordea Fund <a href="http://nordeafonden.dk/">http://nordeafonden.dk/</a>
- Markedsmodningsfonden <a href="http://markedsmodningsfonden.dk/">http://markedsmodningsfonden.dk/</a>
- PPI Fund Aarhus Municipality Velfærdsteknologisk OPI-pulje (aarhus.dk)

**Examples of relevant business models, and sustainability means** 

Activities to address and implement SHAFE

**Strategies** 

# 11. Estonia

Contributor: Kadi Lubi (TalTech)

## (National, regional, local) policies on Smart Healthy Age-Friendly Environments

The main foundations on aging politics were adopted on 1999 and were based on the document of United Nation's 1st Global Aging Assemble (from 1982) followed by the update on 2002.



- Preparation of Estonian national development plan 2013-2020 for active aging was initiated in 2012.
   The objective if this document was to form age-friendly society and secure the quality of life and equal opportunities for elderly.
- Demographic developments and issues of aging population are the areas of concerns also on the Welfare Development Plan 2016–2023 <a href="https://www.sm.ee/en/development-programme-and-plan-action-ministry">https://www.sm.ee/en/development-programme-and-plan-action-ministry</a>.
- Estonian government has already initiated the next Welfare Development Plan 2023-2030 at the end of 2020.
- Still, Estonia holds 3<sup>rd</sup> highest place after Latvia and Bulgaria (44.6%) of old population at risk of poverty or social exclusion (data from 2019; <a href="https://ec.europa.eu/eurostat/web/income-and-living-conditions/visualisations">https://ec.europa.eu/eurostat/web/income-and-living-conditions/visualisations</a>).
- Social services are provided by municipalities and by the state
- Since Estonia is aging population, reforms on retirement age started on 2017 and gradual increase is
  ongoing until 2026, when people born on 1961 retire at age 65. Starting from 2027, the age of
  retirement will start to depend on average life expectancy and the basis for calculations will be the
  life expectancy of 65-years old people i.e., in case life expectancy increases, the retirement age will
  increase. However, the annual increase is max 3 months and confirmed 2 years prior the change.
- Due to that, the goals of above mentioned documents are also related to supporting and securing retraining opportunities. However, although Education Development Plan 2021-2035 outlines the lack of systematic approach among risk groups, including elderly (<a href="https://www.hm.ee/sites/default/files/haridusvaldkonna\_arengukava\_2021-2035\_10.07.2020.pdf">https://www.hm.ee/sites/default/files/haridusvaldkonna\_arengukava\_2021-2035\_10.07.2020.pdf</a>), the document does not provide solutions to this problem. Therefore, it may conclude that although problems are acknowledged, the initiatives are fragmented and lack systematic and concrete action-/implementation plans.

#### •

# Additional information on older people in Estonia

Protection of older people is responsibility of Ministry of Social Affairs: <a href="https://www.sm.ee/en/aged">https://www.sm.ee/en/aged</a>

Lifelong learning for older people: <a href="https://epale.ec.europa.eu/et/blog/teadlik-vananemine-kui-elukestev-ope">https://epale.ec.europa.eu/et/blog/teadlik-vananemine-kui-elukestev-ope</a>

### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	+ Municipalities	+ Regional (tertiary) healthcare institutions	+ (Ministry of Social Affairs, Minister of Health and Labour)
Social	+ Municipalities	+ (The Association of Estonian Cities and Municipalities (AECM))	+ (Ministry of Social Affairs, Minister of Social Protection, Social Insurance Board)



Built environment	+		+
Digitalisation		+	+
Development	+	+	+
Education	+	+	+
Research			+ (R&D organisations, incl. Universities)

## (National, regional, local) ecosystem on SHAFE of the partner

To my knowledge, there is no ecosystem on SHAFE in Estonia.

# (National, regional, local) funding opportunities on SHAFE

Research funding by Estonian Research Council: <a href="https://www.etag.ee/en/funding/research-funding/">https://www.etag.ee/en/funding/research-funding/</a>

Funding schemes: principal investigator comes from positively evaluated Estonian R&D institutions (regardless of a citizenship or country of origin).

Other funding opportunities (e.g. ERC, Horizon) can be explored.

**Examples of relevant business models, and sustainability means** 

Activities to address and implement SHAFE

**Strategies** 

# 12. Finland

Contributors: Katja Valkama and Minna Zechner

Note that we are more familiar in the field of social and health care, less related to technology and building for example.

# (National, regional, local) policies on Smart Healthy Age-Friendly Environments

- Act on Supporting the Functional Capacity of the Older Population and on Social and Health Services
  for Older Persons 2012/980. <a href="https://www.finlex.fi/fi/laki/ajantasa/2012/20120980">https://www.finlex.fi/fi/laki/ajantasa/2012/20120980</a> is meant to
  ensure the wellbeing of older adults, that they get support they need and are given the chance to
  influence decision that influence their lives.
- The Disability Services Act 380/1987 <a href="https://www.finlex.fi/fi/laki/ajantasa/1987/19870380">https://www.finlex.fi/fi/laki/ajantasa/1987/19870380</a> The principles of Finnish policy concerning people with disabilities are equal rights, participation and the necessary services and support. Public services and a barrier-free environment are designed for everyone. When general services prove insufficient, special ones are arranged according to the legislation such as services concerning housing, institutional care, assistive devices, transport,



personal assistant, and interpretation. The aim is to support the functional capacity of people with disabilities and their individual autonomy.

- https://finlex.fi/fi/laki/ajantasa/2017/20170241 The aim of the degree is to promote equality between people. Equality requires functional facilities. The regulation lays down minimum accessibility requirements, but there is nothing to prevent us from doing better. According to the UN Convention on the Rights of Persons with Disabilities, accessibility is a human right. Accessibility is also a prerequisite for the realisation of many other human rights. There is a guide to help authorities to make sure that the build environment is accessible Esteetön rakennus ja ympäristö [Accessible building and environment] file:///C:/Users/k5000799/AppData/Local/Temp/Esteet%C3%B6n%20rakennus%20ja%20ymp%C3% A4rist%C3%B6.pdf
- Quality recommendation to guarantee a good quality of life and improved services for older persons 2020–2023 aims to guarantee a good quality of life and effective high-quality services for all older persons who need them. The proposed measures attempt to lay the foundation for an age-friendly society. (Sosiaali- ja terveysministeriö & Suomen Kuntaliitto (2020) Laatusuositus hyvän ikääntymisen turvaamiseksi ja palvelujen parantamiseksi 2020–2023. <a href="https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/162455/STM\_2020\_29\_J.pdf?sequence=1&isAllowed=y">https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/162455/STM\_2020\_29\_J.pdf?sequence=1&isAllowed=y</a>)
- Act on offering digital services 306/2019 (<a href="https://www.finlex.fi/fi/laki/alkup/2019/20190306">https://www.finlex.fi/fi/laki/alkup/2019/20190306</a>) aims to advance the availability of public or publicly funded digital services. Other aims include advancing the quality, information security and accessibility of contents and this way better the equal accessibility of digital services. The Regional State Administrative Agency (Aluehallintovirasto) offers instructions for digital accessibility (<a href="https://www.saavutettavuusvaatimukset.fi/">https://www.saavutettavuusvaatimukset.fi/</a>).
- https://www.finlex.fi/fi/laki/ajantasa/2000/20000812 and The Act on the Status and Rights of Patients 785/1992 https://www.finlex.fi/en/laki/kaannokset/1992/en19920785 stipulate the legal principles under which patients and clients of social welfare services must be treated. Medical patients and clients of social services have the right to appropriate and high-quality service from social and health care services. Options for treatment or measures to be taken must be explained openly and in an understandable manner. Patients and clients of social services must be treated in a manner that does not infringe on their human dignity, convictions, or privacy. If clients feel that they have been treated improperly by social and health care services, or if they need advice about their rights, they can consult the Patient Ombudsman or Social Ombudsman. Complaints are handled by municipalities, Regional State Administrative Agencies, the National Supervisory Authority for Welfare and Health (Valvira), the Parliamentary Ombudsman, and the Chancellor of Justice of the Government.
- The National Supervisory Authority for Welfare and Health (Valvira) operates nationwide in guiding and overseeing social care. Valvira operates under the Ministry of Social Affairs and Health, and is charged with the supervision of the social and health care, early childhood education and care, alcohol and environmental health sectors. Valvira provides licensing for social and health care providers and offer guidance to the Regional State Administrative Agencies to achieve harmonised licensing, guidance and supervisory practices throughout Finland. <a href="https://www.valvira.fi/web/en/front-page">https://www.valvira.fi/web/en/front-page</a>



- My Kanta Pages (<a href="https://www.kanta.fi/en/web/guest/my-kanta-pages">https://www.kanta.fi/en/web/guest/my-kanta-pages</a>) are open to everybody with Finnish personal ID code and means of identification. It is Electronic Patient Record system where individuals can see their own health records and prescriptions, request a prescription renewal and save your their will and organ donation testament. The pages will extend in the coming years to include client data archive for social welfare services, enabling centralised electronic archiving of social welfare client data, as well as active use and permanent storage of the data (<a href="https://www.kanta.fi/en/web/guest/professionals/client-data-archive-for-social-welfare-services">https://www.kanta.fi/en/web/guest/professionals/client-data-archive-for-social-welfare-services</a>).
- The Finnish Ministry of Social Affairs and Health has regularly commissioned national surveys on ehealth and e-welfare to monitor state of the art and trends in e-health and e-welfare in Finland to gain evidence for development. The lates report is from 2019. (Tuulikki Vehko, Salla Ruotsalainen, Hannele Hyppönen (eds.) E-health and e-welfare of Finland. Checkpoint 2018. Helsinki: National Institute for Health and Welfare (THL) <a href="https://www.julkari.fi/bitstream/handle/10024/138244/RAP2019">https://www.julkari.fi/bitstream/handle/10024/138244/RAP2019</a> 7 e-health and e-welfare web 4.pdf).
- The health and social services reform that has been going on for years, aims to develop public healthcare and social welfare. Responsibility for the organisation of health and social services will be transferred from several hundreds of municipalities to 21 counties or welfare regions. Health and social services will be developed during the health and social services reform as part of the Future Health and Social Services Centres programme with the following aims that are attempted to be enhanced by digitalization: Improve equal access to services and the timing and continuity of services; shift the focus of activities from heavy services to preventive and proactive work; raise service quality and effectiveness; ensure the multidisciplinary and interoperable nature of services and curb the growth of expenditure (<a href="https://soteuudistus.fi/en/frontpage">https://soteuudistus.fi/en/frontpage</a>).
- Government program for advancing digitalisation. The goals to be reached in 2023 include: good quality digital services are available for citizens and business; those doing business need to deal with less paperwork with authorities and more is handled digitally and support for digital activities is available across the country also for those in business (<a href="https://vm.fi/digitalisaation-edistamisen-ohjelma">https://vm.fi/digitalisaation-edistamisen-ohjelma</a>).
- ARA The Housing Finance and Development Centre of Finland grants subsidies for improving the housing conditions of groups with special needs. This aims to increase the offering of reasonably priced rental housing suitable for such a purpose. Special-needs groups include homeless people, refugees, students, people with mental health or substance abuse problems, disabled people, people suffering from memory illness and old people in poor physical condition. The maximum subsidy amounts are scaled according to the recipients, with the subsidy percentage increasing according to the number of exceptional arrangements required to support the group's housing. The maximum percentages are 15, 25, 40 and 50 % of approved investment costs. ARA also provides subsidies for the renovation of homes for elderly or disabled people, accessibility subsidies and subsidies for building lifts. <a href="https://www.ara.fi/en-US/Housing finance">https://www.ara.fi/en-US/Housing finance</a>
- The Home Municipality Act (Kotikuntalaki 201/1994)
   https://www.finlex.fi/fi/laki/ajantasa/1994/19940201
   stipulated support for independent living in the community of residence but restricted the freedom of mobility of persons with special needs to move to another municipality where better services may be available. The law was revised (1377-1378/2010) and enacted in 2011 to allow mobility of all persons to seek for better services in another municipality. In such a case, the home municipality pays for the services.



- Home services are provided according to the Social Welfare Act 1301/2014 regulates the service provision to home settings. <a href="https://www.finlex.fi/fi/laki/ajantasa/2014/20141301">https://www.finlex.fi/fi/laki/ajantasa/2014/20141301</a>
- Technology supporting smart ageing and care at home programme (KATI) is a governmental programme and implements Hyteairo's home living measures and is part of the horizontal programme on ageing. The Wellbeing and Health AI and Robotics Programme (HyteAiRo) is a joint national programme between all parties on communication and development since 2018. Ministry of Social Affairs and Health published 2.10.2020 horizontal programme on ageing to support good health and functional capacity of older people. https://thl.fi/en/web/thlfi-en/research-and-development/research-and-projects/technology-supporting-smart-ageing-and-care-at-home-programme-kati-
- The National Non-Discrimination and Equality Tribunal is an impartial and independent judicial body appointed by the Finnish Government. <a href="https://www.yvtltk.fi/en/index.html">https://www.yvtltk.fi/en/index.html</a> The Tribunal supervises compliance with the Non-Discrimination Act 1325/2014 and the Act on Equality between Women and Men (Equality Act) 609/1986 both in private activities and in public administrative and commercial activities. However, the mandate of the Tribunal does not cover matters related to private life, family life or practice of religion. The function of the Tribunal is to give legal protection to those who consider they have been discriminated against or victimised.
- In the beginning of 2021, there is going on strategic national work for common national and global principles and guidelines on the production, acquisition, mobility, opening up, sharing, use, maintenance and storage of information. Since digital, networked ICT environment and information space of the 2020s will be global, complex, vulnerable, and receptive to chaos. The focus of the planned information policy covers a diverse array of information and knowledge, from datasets to information material and notions of all kinds. In utilising information, the aim is to promote people's wellbeing, democracy, and a socially, economically, culturally and environmentally sustainable society. The constantly evolving technology benefits people in their lives and provides tools for applying, using and creating information (Kauhanen-Simanainen, Anne (2020) Tietopolitiikalle kestävä suunta Murrosten ajassa eteenpäin. Helsinki: VM

https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/162582/VM 2020 80.pdf?sequence=1 ).

• There is need keep in mind certain specific groups of individuals when considering SHAFE, namely the indigenous Sami people, the minority group of Roma, ageing migrants, ageing prisoners, those without permanent dwellings and those who suffer from mental health and substance abuse problems.

# Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	Municipalities*		Ministry of Social Affairs
			and Health, Finnish
			Institute for Health and
			Welfare



Social	Municipalities		
Built environment	Municipalities		Ministry of Environment
Digitalisation	Municipalities		
Development	Municipalities		Association of Finnish Local and Regional Authorities (AFLRA, Kuntaliitto).
Education (we considered the post compulsory education only)	Adult education centres exist in most bigger towns. Universities of Applied Sciences and Universities are located in bigger cities		Ministry of Education and Culture
Research	Universities of Applied Sciences and Universities are located in bigger cities	Universities of Applied Sciences and Universities are located in bigger cities	VTT is a research institution owned by the Finnish state. It advances the utilisation and commercialisation of research and technology in commerce and society.
Non-governmental organizations			Carers Finland, Finnish Pensioners' Federation, Age Institute, The Finnish Association for the Welfare of Older People, Federation for Housing Health
Other: please specify	Church parishes		The Finnish Foundation for Technology Promotion supports education and research in the field of technology in Finland.  The Confederation of Finnish Construction Industries RT (CFCI) is the joint interest organisation of building contractors, special contractors and the construction product

<sup>\*</sup>At present organising of the public services in the responsibility of municipalities, the shift to counties of welfare regions is supposed to take place in the beginning of 2023. Therefore, one of the most essential local



stakeholders are municipalities and their different sectors such as: housing, social and health services, land use, public traffic and so forth.

### (National, regional, local) ecosystem on SHAFE of the partner

Minna's networks are mainly research oriented:

member of the for Minna is а Finnish Society Growth and Ageing Research (https://www.gerontologia.fi/finnish-society-growth-and-ageing-research) the Social Policy Association in Finland (<a href="https://sosiaalipoliittinenyhdistys.fi/in-english/">https://sosiaalipoliittinenyhdistys.fi/in-english/</a>), University of the Arctic two working group (Social work and Ageing and Gender in the Arctic, https://www.uarctic.org). She is also involved in CareSam® network of researchers, health and social care professionals across Sweden, Denmark, Finland, Poland and Lithuania which aims to stimulate and increase knowledge about issues on ageing and care (https://caresam.mau.se/). Also, Sosnet, Finnish National University Network for Social Work (https://www.sosnet.fi/In-English) is part of her activity. Minna is further involved in a project coordinated by the Lapland hospital District that implements social prescribing in certain Lappish municipalities (https://www.lshp.fi/fi-

FI/Sairaanhoitopiiri/Kehittaminen/Kehittamishankkeet/Linkki lappilaiseen hyvinvointiin) as well as GERIT-project Gerontological Social Work and complex needs of older adults which is implemented in cooperation with the University of Helsinki and University of Eastern-Finland (https://blogs.helsinki.fi/gerit-hanke/). Another project where Minna is involved: Understanding ageing, gender and ethnicity: Experiences from European Arctic (AGE-Arctic). It is a research network project with the partners from the University of Oulu, University of Helsinki, University of Jyväskylä, Finland; University of Umeå, University of Gothenburg in Sweden; UiT The Arctic University of Norway, Norway; NArFU (Arhangelsk), Murmansk in Russia; University of Akureyri, Iceland; University of Aarhus, Denmark; and University of Dalhousie, Canada. This project activities will be part of UArctic Thematic Network on Ageing and Gender in the Arctic. The purpose of the AGE-Arctic project is to explore ageing, gender and ethnicity through the lens of equality and social justice/human security (https://nordregioprojects.org/arctic-programme/understanding-ageing-genderand-ethnicity-experiences-from-european-arctic-age-arctic/).

Katja is a member of Finnish Association of Administrative Studies <a href="http://www.hallinnontutkimus.fi/node/8">http://www.hallinnontutkimus.fi/node/8</a>, board member of Finnish Society of Disability Studies <a href="https://www.vammaistutkimus.fi/etusivu">https://www.vammaistutkimus.fi/etusivu</a> and board member of the Nordic Network on Disability Studies <a href="https://nndr.org/board-2/">https://mndr.org/board-2/</a> She is also involved in several projects developing wellbeing technology supporting independent living for ex. Al, mHealth and Robotics renewing the wellbeing sector in Southern Ostrobothnia <a href="https://www.seamk.fi/en/cooperate-with-us/rdi-projects/project-database/?RepoProject=441044">https://www.seamk.fi/en/cooperate-with-us/rdi-projects/project-database/?RepoProject=441044</a> She is participating actively to the social and health care reform in the region <a href="https://www.seinajoki.fi/sosiaali-ja-terveys/tietoa-asiakkaalle-ja-pohjanmaan\_sote-rakenneuudistus">https://www.seinajoki.fi/sosiaali-ja-terveys/tietoa-asiakkaalle-ja-potilaalle/hankkeet-sote/etela-pohjanmaan-tulevaisuuden-sote-keskus-hanke/</a> Seinäjoki University of Applied Sciences is a part of a group of researchers in Gerda-project researching the older adults' wellbeing and living conditions every 5 years. Last dataset is from 2016 and the following survey will be implemented in 2021.

### (National, regional, local) funding opportunities on SHAFE

Interreg Europe supports cooperation of public entities for regional development covering the entire Europe including Norway and Switzerland. <a href="https://www.rakennerahastot.fi/web/eay/interreg-europe">https://www.rakennerahastot.fi/web/eay/interreg-europe</a>



Structuralfunds.fi is an online service for parties applying for financing from the European Regional Development Fund (ERDF) and the European Social Fund (ESF), for the authorities and for all those interested in EU funding. The European Social Fund (ESF) is a structural fund, which provides Finland with support from the European Union. The aim of ESF funding is to support employment and employment opportunities by developing skills and service structures. <a href="https://www.rakennerahastot.fi/">https://www.rakennerahastot.fi/</a>

Academy of Finland funds high-quality scientific research, provide expertise in science and science policy and strengthen the position of science and research. https://www.aka.fi/en/

The Foundation for Municipal Development is an independent non-profit foundation. It funds research and development activities serving municipalities, publishes a magazine and books, discusses, and educates. The aim is to support municipalities and regions and improve their scopes for action. The foundation allocates funding on application for research and development projects as well as grants for researchers in all stages of studies and research. Funding is allocated twice a year, in June and December. <a href="https://kaks.fi/about-the-foundation/">https://kaks.fi/about-the-foundation/</a>

The Finnish Innovation Fund Sitra launches and implements projects together with the private, public and third sector, all aimed at increasing sustainable well-being in Finland. The range of the projects is broad, and includes those that run for several years as well as short-term trials. The projects that receive funding are related to Sitra's themes and the practical work we do (see Projects below). Our themes are Sustainability solutions, Fair data economy and Democracy and engagement. <a href="https://www.sitra.fi/en/topics/project-funding/#project-funding/#project-funding/#project-funding/">https://www.sitra.fi/en/topics/project-funding/#project-funding/#project-funding/#project-funding/</a>

NordForsk funds and facilitates Nordic research cooperation and research infrastructure <a href="https://www.nordforsk.org/">https://www.nordforsk.org/</a>

STEA, The Funding Centre for Social Welfare and Health Organisations (STEA) operates in connection with the Ministry of Social Affairs and Health. Non-profit organisations can apply for grants from STEA for their work that promotes health and social welfare. <a href="https://www.stea.fi/web/en/frontpage">https://www.stea.fi/web/en/frontpage</a>

In addition, there are different foundations that offer funding for research. Many of them are found in this database: <a href="https://www.aurora-tietokanta.fi/en/">https://www.aurora-tietokanta.fi/en/</a>

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

We are not sure what is meant with business models, does it only involve for-profit or private actors or also public ones.

The Finnish Innovation Fund Sitra defines itself as follows: Sitra is an accountable and independent future-oriented fund that is influential nationally and internationally and acts as a think tank, promoter of experiments and operating models and a catalyst for co-operation. In being accountable to Parliament, our future-oriented work is funded with returns on investments based on endowment capital received originally at the behest of Parliament. (<a href="https://www.sitra.fi/en/">https://www.sitra.fi/en/</a>)

The health and social services reform that has been going on for years, aims to develop public healthcare and social welfare. Responsibility for the organisation of health and social services will be transferred from several hundreds of municipalities to 21 counties or welfare regions. Since this changes the responsibilities between public actors, we see this also as an opportunity to include new approaches and value and practices.



Hoivatilat Plc specialises in producing, developing, owning and leasing out day-care centres and nursing homes, as well as service blocks. We solve the spatial needs of growing municipalities and service companies looking for growth without them needing to make their own investments (<a href="https://hoivatilat.com/">https://hoivatilat.com/</a>). This ia a problematic actor since it moves transnational funds, invests locally and takes the profits out of the country. These profits stem predominantly from municipalities that need the space for service provision. Municipalities use tax funds and Hoivatilat is a means to steer tax funds out of the country.

Hypo is the only credit institution in Finland that specialises in housing. <a href="https://www.hypo.fi/en/in-english/">https://www.hypo.fi/en/in-english/</a>

Loppukiri (Final sprint) is a housing community in Helsinki for those aged 48 and over <a href="https://www.loppukiri.com/">https://www.loppukiri.com/</a>.

ARA The Housing Finance and Development Centre of Finland grants subsidies for improving the housing conditions of groups with special needs. The maximum percentages are 15, 25, 40 and 50 % of approved investment costs. ARA also provides subsidies for the renovation of homes for elderly or disabled people, accessibility subsidies and subsidies for building lifts. <a href="https://www.ara.fi/en-US/Housing finance">https://www.ara.fi/en-US/Housing finance</a>

Participatory budgeting is a democratic process where the citizens can participate to the budgeting process in the municipality (The Act on Municipalities 410/2015) <a href="https://finlex.fi/fi/laki/ajantasa/2015/20150410">https://finlex.fi/fi/laki/ajantasa/2015/20150410</a>. <a href="https://lab.fi/sites/default/files/2020-02/osallistuvabudjetointi">https://lab.fi/sites/default/files/2020-02/osallistuvabudjetointi</a> ebook 0.pdf

# 13. Germany

Contributors: Sonja Müller and Kirsten Martin, empirica

### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

- National: Federal Ministry for Family Affairs, Senior Citizens, Women and Youth. Achter Altersbericht der Bundesregierung (Eighth Ageing Report of the Federal Government)
  - The main focus of this report is digitalisation as a strategy to improve the life quality of senior citizens in Germany.
  - These include measures such as supporting smart homes to increase the independence of the elderly, making internet available to all and promoting digital skills.
- Regional: Rheinland-Palatinate Ministry of Social Affairs, Labor, Health and Demography, Aktionsplan der Landesregierung zur Politik für Seniorinnen und Senioren in Rheinland-Pfalz (Action Plan of the State Government on Policy for Seniors in Rhineland-Palatinate)
  - This action plan targets the life quality of seniors Rheinland-Palatinate by targeting the 5 key areas: self-determined living, staying mobile and active, living well, strengthening solidarity between generations and fostering social inclusion. Financial support is provided for measures such as building renovation to support accessibility or offering fitness classes for seniors.

#### Relevant stakeholders and policy makers in your country?

	Local	Regional	National		
Health			Bundesministe	erium	für
			Familie,	Senio	ren,



	1	T .
		Frauen und Jugend; Im
		Alter IN FORM
Social		Europäischer
		Sozialfonds für
		Deutschland;
Built environment	Landochoratungsstollo	
Built environment	Landesberatungsstelle	
	Barrierefrei Bauen und	
	Wohnen: Rheinland- Pfalz	
Digitalisation	Medien Kompetenz	Forum
	Forum Südwest	Informationsgesellschaft
Development		
Education		
Research		Institut für Soziale Infrastruktur – Sozialforschung; Bundesministerium für Bildung und Forschung; Deutsches Zentrum für Altersfragen
Other: please specify		
Other: please specify		

#### (National, regional, local) ecosystem on SHAFE of the partner you are involved with in your country

BAGSO – Bundesarbeitsgemeinschaft der Seniorenorganisationen (Federal Working Group of Senior Citizens' Organisations). Partners consist of a number of different senior citizen professional, political and social groups as well as non-profits working in fields relating to SHAFE. https://www.bagso.de

#### (National, regional, local) funding opportunities on SHAFE in your country

Region Baden-Württenberg: Quartiersimpulse- This funding programme supports municipalities that
would like to implement age-friendly developments of neighbourhoods and urban districts.
<a href="https://www.quartier2030-bw.de">https://www.quartier2030-bw.de</a>

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

#### Regional Government Bodies

- Ministerium für Soziales, Gesundheit und Integration Baden-Württemberg
- Bayerisches Staatsministerium für Arbeit und Sozialordnung, Familie und Frauen
- Ministerium für Soziales, Gesundheit, Integration und Verbraucherschutz des Landes Brandenburg (MSGIV)
- Hessisches Ministerium für Soziales und Integration
- Mecklenberg-Vorpommern Ministerium f
  ür Soziales, Integration und Gleichstellung
- Niedersächsisches Ministerium für Soziales, Gesundheit und Gleichstellung
- Ministerium für Arbeit, Gesundheit und Soziales des Landes Nordrhein-Westfalen



- Reinland-Pfalz Ministerium für Arbeit, Soziales, Transformation und Digitalisierung
- Saarland Ministerium f
  ür Soziales, Gesundheit, Frauen und Familie
- Staatsministerium f
  ür Soziales, Sachsen
- Ministerium für Arbeit, Soziales und Integration Sachsen-Anhalt
- Schleswig-Holstein, Ministerium für Soziales, Gesundheit, Jugend, Familie und Senioren
- Thüringer Ministerium für Arbeit, Soziales, Gesundheit, Frauen und Familie

# 14. Hungary

Contributor 1: Dr. Zoltán ALEXIN

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

- Act CXXII of 2019 on Entitlements to Social Security Benefits and on Funding These Services
- Act No. LXXXI of 1997 on social insurance pensions

The retirement age is 65 in Hungary. If a citizen has worked for more than 20 years, then he or she is entitled to receive monthly pension. The source of this benefit is the Social Security Contribution and the Social Contribution Tax which must be paid by the employer (15,5% of the gross salary) and by the employee (18.5% of the salary). The tax is collected by the National Tax and Customs Administration (<a href="https://en.nav.gov.hu">https://en.nav.gov.hu</a>) and transfers the money to the National Pension Fund (54%) and the National Health Insurance Fund (37,9%).

#### - Act LXXXIII of 1997 on the benefits of compulsory health insurance

Hungary has a state-owned compulsory health insurance system. All employees are insured since they are paying the insurance fee from their salaries. In addition to them, children under 18 and pensioners (65+) automatically insured. Who does not work must pay a monthly 8000 HUF (~22 EUR), health insurance fee otherwise he or she is not entitled to receive free medical care.

#### - Government Decree 85 of 2007 on reductions in public passenger transport

Since pensions are traditionally low in Hungary, the Government introduced free transportation on all different means of local public transportation (trams, buses, subways), and on all national railway and bus services. This benefit extends to all 65+ people from the EEA plus Switzerland.<sup>30</sup>

### - Act LXXVIII of 1997 on the Development and Protection of the Built Environment

The above law declares that all public buildings must be accessible for disabled people. New buildings meet this requirement, but the old ones not always. There are lots of deficiencies in the transportation. Many times, trams, subway carriages, and trains are not or hardly accessible by wheelchairs.

# - Act XXVI of 1998 on assuring equal opportunity for persons with disabilities

The goal of this law is the inclusion of disabled citizens in the society and employment. It declares the right to rehabilitation, access to public information and services including transportation services.

- Act 47 of 1997 on Health Data Processing and Protection

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<sup>&</sup>lt;sup>30</sup> https://www.hungarybudapestguide.com/free-transportation-budapest-above-65-years



Chapter III/A. of this law established the national Electronic Health Record system (EESZT), which collects every bit about patients reported by the state-owned medical service, pharmacies, and private clinics. Reporting is obligatory for all contributors. Citizens can login and access their own documents [internet access and the e-Government registration are needed]. Citizens can restrict doctors' access to their data. The system started to work in November 2017.

- Act LIII of 1995 on the General Rules of Environmental Protection
- Act CCXXII of 2015 on general rules of electronic administration and trusted services (official English translation)

Hungary develops its electronic administration system. The above law defines the major services, their functions, and requirements. The electronic administration system connects citizens with the offices (authorities) but connects different public institutions, public authorities together. Many times, citizens need not personally go to an authority to get a document (like driving license, EU Health Card etc.). The income tax declaration is became fully electronic in recent years.

- Act CL of 2016 on the Code of general administrative procedure (official English translation)
- Gevernment Decree 451 of 2016 on detailed rules of electronic administration

The law declares the procedures applied in the public administration. It lists those cases when citizens can use electronic communication means. It also defines the deadlines, conditions when somebody can turn to the court, can appeal etc.

- Government Decision 1712 of 2014 on Elderly Affairs Council

The Government established a forum where they can negotiate with the representatives of elderly citizens. 31 The Council comprises of twelve ministers or directors of government institutions and twelve representatives of the elderly. The president is the Prime Minister. The council does not do anything interesting, assembles very rarely.<sup>32</sup>

Hungary prepares an e-Health strategy (but it is nor ready yet) as have been published in the media.<sup>33</sup> The Minister of Innovation and Technology prepared a Health Industry Strategy for the Government in October 2019. Unfortunately, the document is not public. The minister wanted to gain access to the national EHR system, and allow the industrial users to use the data for product/service development.

#### Relevant stakeholders and policy makers

	Local	Regional	National
Health	Municipalities*		Ministry of Human Resources,
			EMMI
			https://kormany.hu/emberi-
			<u>eroforrasok-miniszteriuma</u>

<sup>31</sup> https://joinup.ec.europa.eu/sites/default/files/inline-files/Digital Government Factsheets Hungary 2019.pdf

<sup>32</sup> https://miniszterelnok.hu/tag/idosek-tanacsa/

<sup>33</sup> http://medicalonline.hu/informatika/cikk/hamarosan elkeszul magyarorszag e health strategiaja



Social	Municipalities	Ministry of Human Resources,
SUCIAI	iviuncipanties	
		EMMI
		https://kormany.hu/emberi-
		<u>eroforrasok-miniszteriuma</u>
Built environment		Ministry of Innovation and
		Technology, ITM,
		https://kormany.hu/innovacios-
		<u>es-technologiai-miniszterium</u>
Digitalisation		Ministry of Innovation and
		Technology, ITM,
		https://kormany.hu/innovacios-
		<u>es-technologiai-miniszterium</u>
Development		Ministry of Innovation and
		Technology, ITM,
		https://kormany.hu/innovacios-
		<u>es-technologiai-miniszterium</u>
Education		Ministry of Human Resources,
		EMMI
		https://kormany.hu/emberi-
		<u>eroforrasok-miniszteriuma</u>
Research		Ministry of Innovation and
		Technology, ITM,
		https://kormany.hu/innovacios-
		es-technologiai-miniszterium
Other: please specify		

<sup>\*</sup> There is an ongoing process of centralization of health and social services. State owned clinics, hospitals, polyclinics, GP praxes are united under the umbrella-organization, which is called National Healthcare Service Center (https://okfo.gov.hu/hu/web/national-healthcare-services-center/main-page)

### (National, regional, local) ecosystem on SHAFE of the partner

ICT implementation, privacy research. I took part in couple of R & D projects either as a researcher, here the partners were Hungarian and foreign universities. In some cases, I was data protection advisor when the partners were Hungarian software companies. Being the DPO of the Clinical Centre of the University of Szeged many times I am involved in the design phase of research projects where the University of Szeged is a partner in a consortium.

- TÁMOP-4.2.2-08/1/2008-0008 Sensor network based data collection and information processing, Subproject 5.1. Data Protection Protocols for AAL Systems (Sensory Networks), University of Central Lancashire, Centre for Law, Information and Converging Technologies
- TÁMOP-4.2.2.C-11/1/KONV-2012-0013 Infocommunication techniques and the society of the future (FutureICT), Subproject 1. Data Protection, in collaboration with the Faculty of Law at the University of Szeged, and the Faculty of Law at the University of Pécs



- GINOP 2.2.1-15-2017-0073 I was the DPO of one partner institution and supervising the project from the point of view of patient privacy.<sup>34</sup>
- EFOP-1.9.6-16-2017-00001 I was the DPO of one partner institution and supervising the project from the point of view of patient privacy.<sup>35</sup>
- <a href="http://www.dokivideo.hu">http://www.dokivideo.hu</a> I was an advisor in this project.
- MediConSec project on minimization of personal contacts due to Covid-19 pandemic currently being started.

#### (National, regional, local) funding opportunities on SHAFE

The government publicize the development program calls on a government webpage (<a href="https://www.palyazat.gov.hu">https://www.palyazat.gov.hu</a>). In the forthcoming 2021-2027 period the following development programs are planned. They are financed by the EU Cohesion Fund. There might be national development programs as well whose calls will appear also on this webpage.

- Digital Renewal Operative Program Plus (DIMOP Plus)
- Human Resources Development Program Plus (EFOP Plus)
- Hungarian Fishing Management Operative Program Plus (MAHOP Plus)
- Integrated Transportation Operative Program Plus (IKOP Plus)
- Economic Development and Innovation Operative Program Plus (GINOP Plus)
- Area and Settlement Development Operative Program Plus (TOP Plus)
- Program Implementation Operative Program Plus (VOP Plus)
- Environment and Energy Efficiency Operative Program Plus (KEHOP Plus)

The *Plus* in the name means that similar Operative Programs were implemented in the previous 2014-2020 period.

Primarily, from the point of view of SHAFE, the EFOP Plus program is the candidate. Human resources development includes social and medical care, (elderly) education programs, societal inclusion programs, electronically supported public services. Secondarily, the TOP Plus program can finance Settlement development programs, thirdly the healthy environment projects can be financed from the KEHOP Plus program. Eligible participants (public authority, public institution, or company), and eligible regions where the result realized may vary from call to call. What is sad, that usually these programs can finance Hungarian companies, Hungarian participants.

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

- Subscription based or mixed (free and subscription based) services which can be self-finance the
  continuous maintenance of the service. The <a href="www.dokivideo.hu">www.dokivideo.hu</a> project plans to provide free services to
  the patients, while collect subscription fee from medical institutions. The Hungarian Health Insurance
  Fund in 2020 allowed e-Connections to be reimbursed, like personal check-ups.
- Inclusion the service into the existing financing structure, like in the GINOP 2.2.1-15-2017-0073 project. The goal is to define telemedicine services (sending sensory data from patients to a central repository)

<sup>34</sup> https://u-szeged.hu/pmi/fejlesztesiprojektek/ginop-2-2-1-15-2017-171211/ginop-2-2-1-15-2017

<sup>35</sup> https://nisz.hu/hu/projektek/elektronikus-egeszsegugyi-agazati-fejlesztesek



and allocate doctors who can treat these patients. Such a way, that the Health Insurance Fund will reimburse their costs.

Contributors Hungary 2: Mrs. Andrea Ferenczi and Mrs. Ildikó Modláné Görgényi Association for Women's Career Development in Hungary

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

1.1. The documents of the Hungarian aging policy are the National Strategy for Ageing (Resolution 81/2009 (X.2.) OGY) and the first Action Plan for Ageing (Government Resolution 1087/2010 (IV. 9.), some parts of which have been reconsidered in the meantime. Based on local specificities, municipalities work on the basis of their own aging strategies.

The National Strategy for Ageing identifies issues, dilemmas, answers, and long-term alternative proposals for the period up to 2034 as a comprehensive plan. The issues that arise in it go beyond the field of health and social care, all segments of social functioning - they affect housing, transport, culture, economic life.

The National Strategy for Ageing, in line with international documents, aims to promote the active, independent and independent living of the seniors, for which purpose it intends to implement coordinated governmental work. Following an extensive situation analysis, the strategy draws attention to key issues affecting the age group. It lists the loss of a partner, settlement inequalities, health status, lack of social capital, and income situation as risk factors. The management and elimination of disadvantages can be implemented with planned, conscious governmental coordination and social cooperation.

To this end, it sets the horizontal goal of reaching the social public, providing the widest possible continuous information, applying the principles of open communication and partnership, and shaping attitudes towards aging for all ages, along the following priorities:

- For aging and elderly persons to preserves their activity and independence, social prestige
- Safety and adequate quality of life, keeping the risk of disease low, preserving human dignity and promoting functional independence
- Lifelong development, striving for joy of life, preservation of autonomy and self-realization
- Social participation and inclusion, increasing community prestige
- Equal opportunities, positive reactions to social policy challenges of ageing and longevity, action against ageism.

In the consumer society, the seniors are affected by various purchases and consumer protection, but in connection with services, tourism, culture and education, sports are also closely related to this, they affect the ageing population. At the same time, in terms of changes in health and mental condition, they are also affected in the field of health care, social care, public catering services and environmental protection.

Current and future generations of aging people who retain their activity and independence are valuable and, in many respects, undiscovered resources for the economy.



It is therefore essential to maintain and improve their ability to work, to protect physical and mental health, and to support those who intend to stay in work. Current legislation is favourable for the employment of retirees.

# 1.2. 2011. Charter of the Seniors - Establishment of the Council of the Elderly No. 1712/2014 (XII.5.) government decision.

Includes the Hungarian Program of the European Year for Active Aging and Intergenerational Solidarity including: Active Ageing Conference, Generations at School, Let's Rest Together, Get a move, Mama, Day of Older Persons, Methodology Conference on Ageing, Cross-Border Cultural and Art Competition for the Seniors 2013, "Ki MIT TUD" — Who knows What -2013, 2015.) "Kor-Társ" Cohorts — Community Ageing Programs.

#### 1.3. Legislation related to ageing:

- 1993. III. Act on Social Administration and Social Benefits
- 1/2000. (I. 7.) SzCsM (ministerial) decree on the professional tasks of social institutions providing personal care and the conditions of their operation
- 9/1999. (XI. 24.) SzCsM (ministerial) decree on the use of social benefits providing personal care
- 29/1993. (II. 17.) Government Decree on the reimbursement fee for social benefits providing personal care
- 36/2007. (XII. 22.) SZMM (Ministerial) Decree on the detailed rules for the examination and certification of the need for care and social need based on health status
- 9/2000. (VIII. 4.) SZCsM (ministerial) decree on the further training of persons providing personal care and the social professional examination
- 8/2000. (VIII. 4.) SZCSM (ministerial) decree on the operational register of the data of persons providing personal care
- 369/2013. (X. 24.) Government Decree on the official registration and control of social, child welfare and child protection service providers, institutions, and networks.

## 1.4. Research and studies related to ageing, for example:

- Is old age is a process or disease?:
   http://www.beteghuone.hu/hirek/az oregkor flamat vagy betegseg/
- On the Wavelength of Fisher Kings: Experiences of the Elderly Related to Religious Events: https://eco.u-szeged.hu/download.php?docID=39995
- <u>SKYPE in Elderly Care: Experiences from an Intervention Research:</u> http://www.esely.org/kiadvanyok/2012 2/szeman.pdf
- Learning in old age: https://ofi.oh.gov.hu/tudastar/bajusz-klara-idoskori
- Analysis of the possibilities of increasing the activity rate of social groups with low economic activity:
   20190109 agat Court of Audit.pdf
- Elderly-friendly cities, places, communities: 2016-2 3-1 Szeman Idosbarat varosok.pdf (esely.org)
- Healthy
   aginghttps://www.etk.pte.hu/protected/OktatasiAnyagok/%21Palyazati/sport2/EgeszsegesIdosode
   sJ.pdf
- On the way to old age

https://www.lib.uni-corvinus.hu



#### 1.5. Conference volume:

Silver Age: Ageing and Society, <a href="http://www.ksh.hu/docs/eng/xftp/idoszaki/pdf/korosodas.pdf">http://www.ksh.hu/docs/eng/xftp/idoszaki/pdf/korosodas.pdf</a>.

It helps the daily life of older people, increases their security, prevents the deterioration of social relations, contributes to the preservation of their physical mental capacity, activation, learning and intergenerational cooperation.

### 1.6. Examples of good practices in innovation for older people:

- Web nurse is the companion in home care: https://webnover.hu/
- Elderly-friendly housing program in Győr
- Dementia-friendly urban development project in Mosonmagyarovar
- Helping Hands Infocommunication Model Program National Government Program (use of IT tool)
- Language learning of older people
- Third age university: http://www.harmadikkoregyeeme.hu/alapitvany.html
- University of retirement age: https://nye.sze.hu/a-nyugdijas-egyemrol
- <u>Telenor's innovations in telephones serving the safety of the elderly:</u> <u>https://www.telenor.hu/sajto/kozlemeny/az-idosek-biztonsagat-szolgaljak-a-telenor-ujitasai</u>
- Signaling home help for the elderly living in their own home, in need because of their health and social status, who are able to use the emergency call device properly nationwide (emergency call, application for relatives, the insured is always available through the emergency call): <a href="https://www.soskozpont.hu/?gclid=cj0kcqjwp86ebhd7arisafkgakifoyhljhevxzltztkpwswwdw6i1j-1ixqzm1wl9h8zl897lbtruteaarpcealwwcb">https://www.soskozpont.hu/?gclid=cj0kcqjwp86ebhd7arisafkgakifoyhljhevxzltztkpwswwdw6i1j-1ixqzm1wl9h8zl897lbtruteaarpcealwwcb</a>

#### Relevant stakeholders and policy makers

	Local	Regional	National
Health	Municipalities and G	State Health Care Center,	Ministry of Human
	Service	County Government	Resources
		Offices	Secretary of State for
		Red Cross County level	Health
		Organizations	
Social	Old people's homes	,County Government	Ministry of Human
	municipalities, nor	-Offices,	Resources
	governmental	Directorate General for	Secretary of State for
	organizations	providing Social	Social Affairs
		Opportunity	Maria Kopp Institute for
			Demography and
			Families (KINCS)
Built environment	Municipalities,	County Government	Ministry of Innovation
	companies,	Offices,	and Technology:
	NGOs		



		directorates, Construct Agriculture and Rural Infrastru Development Office Environ National Food Chain Sustaina Safety Office Ministry	ment and bility, of Agriculture: ecretary for the
Digitalisation	Youth and adult education institutions, companies		of Innovation nnology
Development	Municipalities, companies	Key national Prime I developments, Respons companies, Secretar National Intellectual Ministry Property Office and Tecl Nemzeti Infrastruktúra Fejlesztő Zrt. (National Infrastructure Development Zrt.)	ies to the of Innovation
Education	education centers	and Te Secretar Educatio	es: State y for Public on, of Innovation chnology: State y for Higher
Research	Universities, colleges research organizations	Universities, colleges, Ministry research organizations Resourc Hungarian Academy of Ministry Sciences, and Tecl National Research, Development and Innovation Office, National Expert and	es, of Innovation



Research Center, Animal
Husbandry and Feed
Research Institute,
Central Research
Institute for
Environmental and Food
Sciences

# Partners of the Association for Women's Career Development in Hungary in Ageing issues:

National Assembly Committee on Employment and Labor, National Council on Ageing, Ministry of Human Capacities, Local Governments, Hungarian Academy of Sciences, EBH - Equal Treatment Authority, Hungarian Central Statistical Office (HCSO) Demographic Research Institute, National Research, Development and Innovation Office, Gerontology Science Coordination Center, Faculty of Health, University of Debrecen, Széchenyi István University, Crime Prevention Department of the Hungarian National Police, Hungarian Red Cross, Chambers of Commerce and Industry, Embassies accredited to Budapest, etc.

#### (National, regional, local) ecosystem on SHAFE of the partner

"DIGITIZATION FOR ACTIVE OLDER PEOPLE" PROGRAM, INTRODUCED NATIONWIDE BY THE GOVERNMENT RESOLUTION NO. 1761/2017. (XI. 7.)

In Hungary, it is very important that the older generation should be able to perform the daily tasks with IT tools that help them to manage their private and professional tasks. affairs. Eg. identity card, driver's license, using the E-Government, bank transfers, etc. That is why, since 2017, preparations have started nationwide. In addition, they the Government aims to continuously improve the digital literacy of all citizens.

The program is aiming the 65 plus age group, supporting the development of their basic digital knowledge. People over the age of 65 can study in small groups sessions as part of free training. In the sessions, participants gain knowledge ranging from turning on the computer to using social networking sites. Under the guidance of mentors, education takes place in small groups. In parallel, a Digital Welfare Program Network was established, under which 6,500 seniors have been able to learn how to use a computer under the guidance of mentors.

The new publication is entitled *View of the World Wide Web*, published by Neumann János Nonprofit Kft. The publication provides a guide to digital technology in plain language with colourful illustrations.

- An action called *Digital Alliance* has been launched. The initiative aims to make the digital solutions, tools and services offered by the industry should reach all those who need them in this emergency. Reasonable steps to prevent the spread of the coronavirus epidemic have made it clear that without digitalization, the 21st century cannot be imagined. Digital solutions became basic needs for more people than ever before.
- Within the framework of the *Digital Alliance*, a website www.digitalisjoletprogram.hu, was created, where all digital solutions, applications and services offered by the actors of the sector can be accessed in one place. On the website everybody interested can be informed at all times and receive information about the currently available digital provisions and the conditions of their use.

#### Offers:

Digital application



- Digital service
- Digital volunteering
- IT tool
- Other volunteer work

What has been done in Hungary for 21st century digital education?

- An organizational unit was established to support the Digital Pedagogical Methodology Center. The
  importance is indicated by the fact that the Government Resolution No. 1536/2016. (X. 13.) includes
  the purpose of digital transformation of the public education, vocational training, higher education
  and adult education system.
- Results of Hungarian pilot projects are analysed (eg: Telenor, Vodafone, Samsung, Magyar Telekom, Microsoft, LEGO, etc.) for further development.
- They support the sharing of digital pedagogical experiences and good practices
- A framework and measurement-assessment tool for measuring digital competencies has been developed.
- The implementation of Hungary's Digital Education Strategy is monitored annually with a monitoring system.
- Every year a digital education conference and exhibition is organized, where everyone can learn new procedures and methods. the latest one was organized between 14-6October 2020.



# 15. Iceland

Contributor: Roxana Elena Cziker

(National, regional, local) policies on Smart Healthy Age-Friendly Environments



#### 1. Legislation regarding the elderly people: https://www.althingi.is/lagas/nuna/1999125.html

This Act aims at the elderly people's rights to health and social services according to the individual needs and health conditions.

The law also provides the measures containing the rights of elderly people to continue, as much as possible their life at home. If this is not possible anymore, they have the right to benefit from the long-term care services.

# 2. Legislation regarding the rights of disabled people to long-term services: https://www.althingi.is/altext/stjt/2018.038.html

The purpose of this law creates the proper framework for the rights of disabled people to access the best services according to their individual specific needs. The service aims to enable disabled people to enjoy a decent life and benefit of human and equal rights at the same level as their peers and create conditions for independent living. The provision of services is made in such a way that ensures human dignity, autonomy, and independence.

# **3.** Law about the constructions' regulations: <a href="https://www.althingi.is/lagas/nuna/2010160.html">https://www.althingi.is/lagas/nuna/2010160.html</a> The purpose of this law is as follows:

- a. To protect human life and health, property, and the environment by ensuring professional preparation for construction and active monitoring of compliance with the requirements necessary for ensuring human life and health safety conditions.
- b. To promote the durability and efficiency of structures/constructions, e.g., by ensuring the building standards in line with the Icelandic conditions.
- c. To promote environmental protection by guiding sustainable development in the design and construction of buildings.
- d. To promote technological progress and innovation in the construction industry.
- e. Ensuring accessibility for all.
- f. To promote good energy efficiency of buildings.

# **4.** Legislation about urban planning: <a href="https://www.althingi.is/lagas/nuna/2010123.html">https://www.althingi.is/lagas/nuna/2010123.html</a> The purpose of this law is as follows:

- a. to develop settlement/buildings and land in the whole country based on organization/infrastructure plans where the people's economic, social, health, safety, and cultural needs, are taken into consideration
- b. to promote the rational and efficient utilization of land, to ensure the protection of landscape, nature, and cultural values, and to prevent environmental damage and overexploitation, considering at all levels the principle of sustainability;
- c. to ensure legal certainty in the handling of organizational matters so that the rights of individuals and legal entities are not overridden, even if the interests of the whole are taken into account,
- d. to ensure that the public is consulted in the preparation of development plans so that they are allowed to influence the government's decision in the preparation of such plans;
- e. to ensure professional preparation for construction, zonal organization, and building structures accessibility for all.



5. Building regulations nr. 112/2012: <a href="https://www.hms.is/media/8043/byggingarreglugerd\_med\_breytingum.pdf">https://www.hms.is/media/8043/byggingarreglugerd\_med\_breytingum.pdf</a> Planning regulation nr. 19/2013: <a href="https://www.reglugerd.is/reglugerdir/eftir-raduneytum/umhverfis--og-audlindaraduneyti/nr/18558">https://www.reglugerd.is/reglugerdir/eftir-raduneytum/umhverfis--og-audlindaraduneyti/nr/18558</a>

The purpose of this law is as follows:

- a. To protect human life and health, property, and the environment by ensuring professional preparation of construction and active monitoring of building compliance with safeness and healthiness requirements.
- b. To promote the durability and efficiency of structures in line with the Icelandic conditions.
- c. To promote environmental protection by guiding the sustainable design and building development structures.
- d. To promote technological progress and innovation in the construction industry.
- e. Ensuring accessibility for all.
- f. To promote good energy efficiency in the operation of buildings.

# 6. Law about the Municipal Social Services: <a href="https://www.althingi.is/lagas/nuna/1991040.html">https://www.althingi.is/lagas/nuna/1991040.html</a>

Municipal social services aim to ensure financial and social security and promote the population's well-being based on mutual assistance.

- a. to improve the living conditions of people with disabilities,
- b. to ensure the proper developmental conditions for children and young people,
- c. to assist so that residents can live as long as possible to their home, to be employed and have the best possible quality of life,
- d. to envisage all necessary measures in order to prevent social problems.

#### 7. Welfare Appeals Committee Act: <a href="https://www.althingi.is/lagas/nuna/2015085.html">https://www.althingi.is/lagas/nuna/2015085.html</a>

Role: The Welfare Appeals Committee shall rule on appeals lodged in connection with administrative decisions as provided for in laws which allow for appeals to be made to the committee. The appeals committee is independent and autonomous in its work.

- 8. Social Assistance Act: <a href="https://www.althingi.is/lagas/nuna/2007099.html">https://www.althingi.is/lagas/nuna/2007099.html</a>
- 9. Information Act: <a href="https://www.althingi.is/lagas/nuna/2012140.html">https://www.althingi.is/lagas/nuna/2012140.html</a>

The purpose of this Act is to ensure transparency in administration assuring the public interests, e.g., to strengthen:

- 1. right to information and freedom of expression,
- 2. ensuring the active participation of the public in a democratic society,
- 3. media and the public's restraint on [public bodies], 1)
- 4. the possibility for the media to disseminate information on public affairs;
- 5. public trust in the administration.

# 10. Reykjavík Public Health Policy until 2030: <a href="https://reykjavik.is/sites/default/files/heilsuborgin\_19-05-20211.pdf">https://reykjavik.is/sites/default/files/heilsuborgin\_19-05-20211.pdf</a>

• The main key priorities of the policy are the public health and quality of life of all citizens. This entails that Reykjavík will be a health city on different dimensions: spiritual, physically and socially.



- Vision: Reykjavík is health-promoting, sustainable and a diverse urban community that promotes security, balance, active participation and well-being of all.
- The main objectives of the policy are as following:
  - o Improve the health and wellbeing
  - o Equality to health and well-being no one left behind
  - o Health and well-being is a guide to all the activities of the City of Reykjavík
- 11. Health promotion of elderly people, an initiative of the Ministry of Health, released January 2021: <a href="https://www.stjornarradid.is/library/04-Raduneytin/Heilbrigdisraduneytid/ymsar-skrar/Heilsuefling%20aldra%C3%B0ra%2014012021.pdf">https://www.stjornarradid.is/library/04-Raduneytin/Heilbrigdisraduneytid/ymsar-skrar/Heilsuefling%20aldra%C3%B0ra%2014012021.pdf</a>
- Health promotion aims to enable people to live healthy lives in healthy conditions. Health and well-being are the product of the interaction of individuals and their immediate environment and circumstances, as a contribution of different specialists and stakeholders. Efforts are made to create social, cultural, and economic conditions and environments that foster people's mental, physical, and social health and well-being with different needs. The main focus is to ensure good health conditions, promotion, and prevention of health as much as possible.

#### Relevant stakeholders and policy makers

	Local	Region	National
		al	
Health	Directorate of Health		Ministry of Health
Social	Municipalities		Ministry of Social Affaires
	Department of welfare of the City of		
	Reykjavík:		
	<ul> <li>Services at home</li> </ul>		
	<ul> <li>Long term care services</li> </ul>		
	<ul> <li>Occupational therapy</li> </ul>		
	<ul> <li>Physical training at home</li> </ul>		
	Council of elderly people of the City of		
	Reykjavik responsible for counselling		
	services for elderly people older than		
	67		
	Department of Sport and Leisure of the		
	City of Reykjavik		
	Organisation of people with hearing		
	impairment		
	Organisation for popula suffering of		
	Organisation for people suffering of		
	Alzheimer ( <u>www.alzheimer.is</u> )		



	Local	Region	National
		al	
	Organisation for Parkinson disease		
	(www.parkinson.is)		
Built	Municipalities		Ministry of Environment and Natural
environmen	Department of Environment and		Resources
t	Planning of the City of Reykjavík		Ministry of Industry and Innovation
Digitalisatio	Municipalities		The Business Innovation Fund is an
n	Department of Service and Innovation,		investment fund that takes an active
	City of Reykjavík		part in the development and growth of
			the Icelandic economy by investing in
	MEMAXI – Telecare and		promising innovation and start-up
	communication solutions		companies.
	( <a href="https://www.memaxi.com/">https://www.memaxi.com/</a> ) MEMAXI		
	enhances and facilitates care planning		
	and communication, breaks isolation		
	and provides a sense of security to		
	people who need long-term care.		
Developme	Municipalities		Ministry of Industry and Innovation
nt			
Education	Department of Education and Youth.		Ministry of Education and Culture
(we	Their role is to give the city's children		
considered	and teenagers the best possible		
the post	•		
compulsory	the forefront of education and to		
education	follow a progressive policy for the		
only)	primary and junior schools.		
	Department of Sport and Leisure of the		
	City of Reykjavik		
Research	University of Iceland		University of Iceland
	(https://english.hi.is/university_of_ice		(https://english.hi.is/university_of_ice
	land)		land)
	Reykjavik University ( <a href="https://en.ru.is/">https://en.ru.is/</a> )		Reykjavik University ( <a href="https://en.ru.is/">https://en.ru.is/</a> )
	University of Bifröst		University of Bifröst
	(https://www.bifrost.is/english)		(https://www.bifrost.is/english)
Non-	Association for elderly people in		National Organisation of Elderly people
government	Reykjavík and neighbourhood		(https://www.leb.is/)
al	(https://feb.is/)		
organization			
S	Pad Crass Isale ed /		
Other:	Red Cross Iceland ( <u>www.redcross.is</u> )		
please			
specify			



Local	Region al	National
Organisation of elderly people and		
buildings ( <u>www.aldradir.is</u> )		

#### (National, regional, local) ecosystem on SHAFE of the partner

1. Policy of digital solution of the Welfare Department of the City of Reykjavik – 2018-2022 The Welfare Department of the City of Reykjavik developed the strategy of implementing the new technology to facilitate the support of elderly people, improve their quality of life and enable them to live longer in safeness at their home. The objectives of the strategy are as follows:

- a. Welfare technology should be efficient so that the service runs smoothly and that it is easy for users and staff to use it.
- b. Welfare technology should contribute to breaking social isolation and improving access to social participation.
- c. Welfare technology should facilitate communication between users, relatives/family, and employees.
- d. Welfare technology should make it easier for people to live independently and change the organization and work processes of employees so that the service becomes more flexible and tailors to the particular needs of each individual.
- e. Welfare technology should increase the activity and participation of people when they are assisted.
- f. Welfare technology solutions should always be evaluated according to their usefulness, the problems they are supposed to solve, and their cost.
- g. The Department of Welfare shall, when the opportunity arises, support research and development of welfare technology, e.g., in collaboration with the innovation and science community.
- h. The Welfare Department shall promote dialogue with individuals, entrepreneurs, and companies on new welfare technologies.
- i. The choice of welfare technology solutions should always consider ethical values such as the user's right to self-determination, e.g., informed consent, transparency, and utility.
- j. Welfare technology shall improve the conditions of employees and promote occupational safety.

#### https://www.facebook.com/velferdarsvid/videos/417816435330825

#### 2. Reykjavík Age-friendly city

The policy regarding the support of elderly people released by the City of Reykjavík by 2017 has created a long-term vision to support the active participation of senior citizens in an age-friendly city. One of the strategies adopted by the policy is to become a partner of the age-friendly cities network in the World Health Organization's (WHO), the Global Network of Age-Friendly Cities and Communities, or the World Network of Elderly Cities.

The City of Reykjavík's policy on senior citizens' issues until 2017, approved in May 2013, facilitates the application of a membership to the World Network of Elderly Cities under the auspices of the WHO. A steering group, composed of representatives from seven divisions and city offices, prepared the application,



but the WHO-approved Reykjavík's membership in the co-operation in June 2015. From then on, the planning of position assessment according to WHO criteria began. Divided into eight categories Outdoor areas and buildings, transport, housing, social participation, respect and social recognition, active community participation and employment opportunities, telecommunications and information, and finally, community and health services.

#### (National, regional, local) funding opportunities on SHAFE

Welfare Technology Centre - Action plan for the Welfare Technology Center in 2019

The Welfare Department of the City of Reykjavík uses welfare technology to facilitate as long as possible the life in their own homes ensuring the quality of life, despite aging, disability, or illness, and at the same time enable them to be more active participants in society.

The action plan is based on the Reykjavík City Welfare Department's policy in welfare technology 2018 - 2022 and the City of Reykjavík's policy on senior citizens' issues 2018 - 2022. The plan is intended to guide the Welfare Technology Center in disseminating knowledge and encouraging the use and implementation of welfare technology.

The Welfare Technology Center aims to test and efficiently implement new welfare technology and provide the Welfare Department's staff and citizens with knowledge and advice. The introduction of welfare technology increases security and flexibility in services and gives senior citizens and their families a more active role in its implementation. The action plan is divided into three sections:

- 1. Development of the activities of the Welfare Technology Center.
- 2. Testing and implementation of welfare solutions in the services of the Welfare Department.
- 3. Educational and raising awareness programme among the senior citizens for the promotion of the welfare technology.
- 2. Welfare Technology Centre Services via screen

The activities offered by the screen services are as following:

- Home care
- Assessment of the primary symptoms
- Advice regarding nutrition, mental well-being, sleep, etc.
- Monitoring and counselling activities
- Monitoring of daily administration of medicine in case of a patient with regular medication for different diseases
- Treatment of diabetes
- Empowerment daily life and the use of technology
- Family support
- Social home services
- Support for C19
- General monitoring
- Assistance/motivation for independent living Order food, housework, etc.

#### The main benefit of services

- Modernization of services and working environment in line with technological developments
- Offer a diverse category of services



- Increase the quality of services
- Increases user and staff security
- More accurate information and responses
- Increased efficiency and service optimization better use of time
- More frequent visits and increased monitoring
- 3. Research 2018 Department of Social Services of the University of Iceland

The research was conducted by the Social Sciences Institute of the University of Iceland as a request formulated by the Ministry of Welfare. The research aimed to map services provided to the senior citizens in Iceland, here not being included the residential and nursing homes.

4. Set up of the office of welfare digital solution in the North of Iceland - 2018

The project aimed to carry out a preliminary study and needs analysis of municipal co-operation for a service and knowledge center in welfare technology. The guiding principle of such co-operation is to use the new technology to inform, guide, provide advice and encourage increased and general use and support individuals in their daily life and activities. The aim is to increase the quality of life of older people and efficiency in providing the service. The center serves the citizens of municipalities in the north of Iceland and possibly extended to the whole country.

There are four categories of welfare technology that are falling into the interest of the Office of Digital solution in the North of Iceland:

- Communication and commitments (examples: mail, conversations, games, telephones, computers, websites, electronic information, and applications). Hi-security and safety (examples: safety systems, fall sensors, safety buttons, assistive devices).
- Health monitoring and quality of life (examples: telemedicine, visits/visits, medication dosing, physiotherapy, aids).
- Learning and social participation (examples: working at home, distance learning, communication with friends and family, self-employment, and earning a living from home).

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

We are not sure what is meant with business models, does it only involve for-profit or private actors or also public ones.

# 16. Ireland

Contributors 1: Dr. Pauline Boland (UL), Dr John Dinsmore (TCD), Dr Helen Kelly (UCC), Dr John Deepu (UCD)

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Established in 2018 as a shared service function of the local government sector Age Friendly Ireland coordinates the national Age Friendly Cities and Counties Programme. The national Age Friendly Ireland Office is hosted by Meath County Council on behalf of the local government sector.

Age Friendly Cities and Counties Programme provides a means to operationalise the Declaration and with a national infrastructure to bring key actors — City and County Councils, the Health Service Executive, An Garda



Síochána (police), NGO's, business and third level sector representatives – together at local authority level to plan collaboratively, to share resources and to streamline their work, with the interests and needs of older people and an ageing population at their core.

Reporting to a National Advisory Group comprising senior representatives from Government Departments and agencies, the local authority and business sectors Age Friendly Ireland has responsibility for:



#### https://agefriendlyireland.ie/category/about-us/about-the-programme/

- HSE Ireland Positive Ageing Programme: <a href="https://www.hse.ie/eng/about/who/healthwellbeing/our-priority-programmes/positive-ageing/">https://www.hse.ie/eng/about/who/healthwellbeing/our-priority-programmes/positive-ageing/</a>
- Irish Department of Reform and Expenditure Prevention and Early Interventions Supporting Health and Wellbeing in Older Age: <a href="https://igees.gov.ie/wp-content/uploads/2019/10/PEIU FPA\_PEI-Supporting-Health-and-Well-being-in-older-age.pdf">https://igees.gov.ie/wp-content/uploads/2019/10/PEIU FPA\_PEI-Supporting-Health-and-Well-being-in-older-age.pdf</a>
- Irish National Positive Ageing Strategy: <a href="https://www.gov.ie/en/publication/737780-national-positive-ageing-strategy/">https://www.gov.ie/en/publication/737780-national-positive-ageing-strategy/</a>
- TILDA: <a href="https://tilda.tcd.ie">https://tilda.tcd.ie</a>

## Relevant stakeholders and policy makers

	Local	Regional	National
Health			
Social			Age Action:
			https://www.ageaction.ie
Built environment			National Disability
			Authority www.nda.ie
Digitalisation			eHealth Ireland
Development			



Education		RCPI -
		https://www.rcpi.ie/policy-
		and-advocacy/ageing/
Research		TILDA: <a href="https://tilda.tcd.ie">https://tilda.tcd.ie</a>
Other: please specify		
Other: please specify		

#### (National, regional, local) ecosystem on SHAFE of the partner

#### AGE ACTION - https://www.ageaction.ie

Our mission: Age Action supports and advocates for equality and human rights for all older people.

Everything we do is based on a recognition of the diversity of identity and situation among older people and a concern for equality for all older people. In addressing ageing, our work includes a concern to influence perspectives on and responses to ageing. This pursuit of equality and human rights is underpinned by our work to promote ageing in place, life-long learning, and health and wellbeing for older people, empowering them to live as active citizens.

Our work is driven by an organisation that is professional in its operations and lives out its values of dignity, participation, diversity, social justice, and professionalism.

We will mobilise and empower older people to advocate on behalf of themselves, their families and their communities as a key element of our advocacy work. As part of this work we will also challenge attitudes towards ageing and older people. We will continue to promote the adoption of a life course approach which recognises ageing as a lifelong process. We will particularly focus on highlighting the needs of the most disadvantaged of older people. This work will be informed by best international practice and will raise awareness of the needs of older people in developing countries, promoting global policies to protect and support older people.

*Our services and programmes will support* older people and their families to live full and independent lives and we will endeavour to ensure these services and supports are models of good practice. We will work with partners in the business and community sectors to support the development and expansion of these services.

The 4th Joint eHealth Ireland and Northern Ireland Connected Health Ecosystem Gathering, organised by ECHAlliance and sponsored by InterTradeIreland, took place in Dundalk on the 22nd January. The Gathering, whose aim is to promote cross border initiatives and future opportunities in Digital Health, foresees a pitching panel, an exhibition, a workshop and several opportunities dedicated to networking. Several are the topics covered by the dense Gathering agenda, between others health care strategy development in Ireland, links between economy and healthcare, promotion of a local approach to primary care, international perspective in identifying opportunities for collaboration in health and social care and transfer of data across borders.

Represented by the Irish partner the Technological University Dublin, the EU\_SHAFE project, committed to promote a comprehensive multilevel approach to Smart Healthy Age-Friendly Environments (SHAFE), will present at the Gathering its experience on identifying and scaling up SHAFE good practices between different



territories for the growth of community-based services and to respond to the "ageing at home" needs around Europe.

https://echalliance.com/the-eu\_shafe-project-at-the-4th-joint-ehealth-ireland-and-northern-ireland-connected-health-ecosystem-gathering-dundalk-22nd-january-2020/

## (National, regional, local) funding opportunities on SHAFE

#### Key funding bodies and grants in Ireland

Health Research Board funds many health and social care based research – calls throughout the year

#### https://www.hrb.ie/

National Disability Authority – functions include research, developing and collaborating on the development of relevant statistics; assisting in the development of standards; developing codes of practice and monitoring the implementation of standards, codes and employment of persons with disabilities in the public service. We work through our Centre for Excellence in Universal Design to promote the universal design of the built environment, products, services and information and communication technologies so that they can be easily accessed and used by everyone, regardless of age, size, ability or disability.

#### http://universaldesign.ie/

Co-ordinated by NDA - dedicated to the principle of universal access, enabling people in Ireland to participate in a society that takes account of human difference and to interact with their environment to the best of their ability.

#### https://www.sfi.ie

# Science Foundation Ireland - <a href="https://www.sfi.ie">https://www.sfi.ie</a>

Our research promotes and assists the development and competitiveness of industry, enterprise and employment in Ireland. <u>Oriented basic research</u> is research that is carried out with the expectation that it will produce a broad base of knowledge that is likely to form the background to the solution of recognised, or expected, current or future problems or possibilities.

Applied research is an original investigation undertaken to acquire new knowledge and is directed primarily towards a specific practical aim or objective. The results of applied research are intended primarily to be valid for a single or limited number of products, operations, methods, or systems.

SFI also promotes and supports the study of, education in, and engagement with STEM and promotes an awareness and understanding of the value of STEM to society and, in particular, to the growth of the economy. The definition of STEM employed by SFI does not extend to the Humanities and Social Sciences, except where it may pertain to the specific mission of the Foundation – for example, through the use of targeted instruments, SFI may support the development, assessment and publication of research to assess the impact of funded research activities, STEM teaching, etc.

#### Irish Research Council - <a href="https://research.ie">https://research.ie</a>

The IRC is an associate agency of the Department of Education and Skills, under the aegis of the Higher Education Authority (HEA), and has the following mandate:



- To fund excellent research within, and between, all disciplines, and in doing so to enhance Ireland's international reputation as a centre for research and learning
- To support the education and skills development of excellent individual early-stage researchers and to cultivate agile independent researchers and thinkers, while offering a range of opportunities which support diverse career paths
- To enrich the pool of knowledge and expertise available for addressing Ireland's current and future needs, whether societal, cultural or economic, and to deliver for citizens through collaboration and enabling knowledge exchange with Government departments and agencies, enterprise and civic society
- To provide policy advice on postgraduate education, and on more general research matters, to the HEA and other national and international bodies. In giving us this role, Government requested that particular attention be given to the Arts, Humanities and Social Sciences.

The mandate and unique role of the IRC generates a strong value-added dimension in the Irish research and innovation landscape.

### Enterprise Ireland - https://www.enterprise-ireland.com/en/

Enterprise Ireland is the state agency responsible for supporting the development of manufacturing and internationally traded services companies. We provide funding and supports for companies - from entrepreneurs with business propositions for a high potential start-up through to large companies expanding their activities, improving efficiency and growing international sales.

The **Covid-19** pandemic has created severe challenges for Irish businesses with significant job losses, worldwide disruption and an uncertain road ahead. These essential funding supports are designed to help businesses stabilise and adapt to the evolving situation, in preparation for getting back on the road to recovery.

#### **Health Service Executive**

The public health service in Ireland which can run funding calls for discrete groups and/or projects – held a 250,000 euro call in 2019 - unsure if running in 2021

https://www.hse.ie/eng/services/list/4/olderpeople/support-grant-for-older-persons/

Wellcome Trust - https://wellcome.org/

Though not an Irish specific grant body, researchers in Ireland have secured funding relevant to NET4Age through this body.

Contributor 2 from Ireland: Damon Berry, TU Dublin

# (National, regional, local) policies on Smart Healthy Age-Friendly Environments

The main three in my view are the following...

1. Healthy Ireland (HSE) Is a wide-ranging policy instrument that includes provisions on healthy ageing.



- 2. National Development Plan (the EU SHAFE project Irish partners have recently made a submission in relation to renewal of that plan.)
- 3. Slaintecare the national plan for development of the healthcare system

# Relevant stakeholders and policy makers

	Local	Regional	National
Health	Health Services	Health Services	Department of Health
	Executive (HSE)	Executive	Health Services
	Hospital Groups	Regional Assemblies	Executive
	General Practititioners	(most activity is at	Health Information
	Care Homes	national level – regions	and Quality Authority
	Care Provider	are not so significant in	eHealth Ireland
	organisations (public	Ireland apart from in	Age Friendly Ireland
	and private)	rugby!)	Age Action Ireland
	Local Authorities	There is county level	7.867.68.611.11.61.61.16
	Mens Sheds	activity in the GAA.	
	Irish Countrywomens		
	Association		
Social	Local Authority	Local Authorities	HSE
	Gaelic Athletics		Age Action Ireland
	Association (GAA)		
	Mens Sheds		
	Irish Countrywoman's		
	Association		
	Bingo clubs		
	Retirement assoc. for		
	large organisations		
	Parish and church		
	organisations		
	Pubs – maybe the only		
	functioning social		
	outlet in some rural		
	communities		
	Residents associations		
Built environment		Age Friendly Ireland	Sustainable Energy
	CEUD		Association of Ireland
			Age Friendly Ireland
			Age Action Ireland
Digitalisation	Companies. Ireland		HSE
	has attracted most of		Government of Ireland



	the main ICT multinationals. General Practices Also some connected health companies.		Enterprise Ireland
Development	Companies such as Pacsana, Acorn, GrandPad.	County Enterprise Boards	Enterprise Ireland IDA
Education	Higher Education institutions (including colleges of further education Adult education - in secondary schools BA / MA in Adult education at NUIM	County Education Boards	HEA, NUI, THEA NALA FETAC QQI
Research	MISA (at St. James's Hospital, Dublin) CASALA (DKIT) tPOT TU Dublin School of Nursing TCD		SFI, HRB, Enterprise Ireland, HEA, TILDA (National project on research into ageing – run out of TCD)
Other: please specify			
Other: please specify			

## (National, regional, local) ecosystem on SHAFE of the partner

We have participated in ehealth ecosystem events and presented SHAFE – the national organisation is currently in transition and the cross border one is an annual event. We also collaborate with Louth County Council, Fingal County Council and St. John of God community (intellectual disability support). HSE, local companies, local authorities

### (National, regional, local) funding opportunities on SHAFE

Science Foundation Ireland funding has been used to fund tech projects to support independent living. Health Research Board for more clinical research style projects. Enterprise Ireland funds commercial research. SFI also has links to other national science funding agencies.

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

The Irish country report for Hands on SHAFE is a good resource for this and actually for many of the other questions. www.hands-on-shafe.eu.



# 17. Italy

Contributor: Gian Matteo Apuzzo, PhD

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Italy presents several policy-level initiatives on AHA and the mapping of AHA interventions highlights the importance of active and healthy aging for the country; however, Italy lacks a comprehensive regulation and implementation of policies promoting active and healthy ageing at national level.

Moreover, within the current normative framework, the Italian legislation does not provide any definition of elderly /older people, nor of active and healthy aging—leaving to national or regional policy makers the task to determine the definition and the criteria case by case.

Considering the absence of a comprehensive strategy for AHA on a national level, the legislation process is based on the article 117 of the Italian Constitution that delineates the legislative authority of the State and the Regions by illustrating the different areas for law-making that are prerogative of the State, of the Region, or of both.

That said, in the last decade— and especially during the Legislature XVII of Italy (2013-2018)— various national legislative proposals for AHA had been put forward; nevertheless, none of them were implemented. Thus, policy-making on AHA in Italy have been entrusted to the Regions and many of them have promoted policy initiatives.

As of 2021, 10 Regions have a specific regional law on AHA:

Piemonte, L.R. 9 aprile 2019, n. 17. Liguria, L.R. 3 novembre 2009, n. 48. Veneto, L.R. 08 agosto 2017, n. 23 Friuli Venezia Giulia, L.R. 14 novembre 2014, n. 22 Marche, L.R. 28 gennaio 2019, n. 1 Abruzzo, L.R. 9 giugno 2016, n. 16 Campania, L.R. 12 febbraio 2018, n. 2. Puglia, L.R. 30 aprile 2019, n. 16 Basilicata L.R. 20 novembre 2017, n. 29 Calabria L.R. 16 maggio 2018, n. 12

Moreover, even if the Regions Umbria and Emilia-Romagna do not have a regional law on AHA, they developed regional policy initiatives with equivalent functions. Additionally, all Italian Regions and Autonomous Provinces have at least one sectoral policy promoting aspects of AHA within target settings, such as social protection and promotion, education, mobility, civic duties and volunteering— especially fostering inclusiveness and participation within the third sector, and often referring to WHO guidelines.

Going back to the national level, in Italy the project "Progetto di coordinamento nazionale partecipato multilivello delle politiche sull'invecchiamento attivo" 36 started in 2019 with the aim of promoting and

.

<sup>&</sup>lt;sup>36</sup>"Project of Multilevel Participative National Coordination for AHA policies" <a href="http://famiglia.governo.it/it/politiche-e-attivita/invecchiamento-attivo/progetto-di-coordinamento-nazionale/">http://famiglia.governo.it/it/politiche-e-attivita/invecchiamento-attivo/progetto-di-coordinamento-nazionale/</a>



strengthening national coordination to improve awareness of AHA in Italy by involving multiple stakeholders— such as civil society, public policymakers, researchers— and disseminating information on AHA guidelines, good practices, and policies. The project has the specific objectives of building networks to exchange AHA-related experiences and competences among Regions and Autonomous Provinces and their stakeholders and of evaluating AHA policies.

It is also worth to mention that many Italian Regions has been awarded as Reference Site of the European Innovation Partnership on Active and Healthy Ageing (EIP on AHA) and that a group to coordinate the activities of the Italian Reference Sites has been established by PROMIS - Programma Mattone Internazionale Salute<sup>37</sup> (an initiative of the Ministry for Health to promote the international dimension of the Italian regional health systems).

#### Relevant stakeholders and policy makers

#### *In the following domains:*

	Local	Regional	National
Health		+	+
Social	+	+	
Built environment	+	+	+
Digitalisation		+	+
Development	+	+	+
Education	+	+	+
Research	+	+	+
Other: please specify			
Other: please specify			

#### (National, regional, local) ecosystem on SHAFE of the partner

Friuli Venezia Giulia Region Reference Site of EIP on AHA

#### (National, regional, local) funding opportunities on SHAFE

There are no specific funding opportunity on SHAFE at national level.

All regional laws above-mentioned foresee funding instruments on AHA.

Moreover, concerning the innovation sector, usually the ERDF Regional Operational Plans and the S3 strategies include funding opportunities at regional level.

A project coordinated by the Italian Government Department for Family and the Istituto Nazionale Riposo e Cura per Anziani IRCSS INRCA <a href="https://www.inrca.it/">https://www.inrca.it/</a>

<sup>&</sup>lt;sup>37</sup> <a href="https://www.promisalute.it/servizi/notizie/notizie\_homepage.aspx">https://www.promisalute.it/servizi/notizie/notizie\_homepage.aspx</a>



- Business models & sustainability means
- Activities for implementation
- Strategies

# 18. Japan

Contributor: Kazumasa Yamada

# (National, regional, local) policies on Smart Healthy Age-Friendly Environments References

- 1. See attached two ppt files that I summarized in English and PDF files from Obu City (in an inner holder).
- 2. National policies: New Orange Plan: <a href="https://japanhpn.org/en/1-2/">https://japanhpn.org/en/1-2/</a>
- 3. Regional policies: Aichi Prefecture: "Aichi Orange Town Concept Phase 2 Action Plan", <a href="https://www.pref.aichi.jp/soshiki/chiikihoukatu/aichiorangetown-2.html">https://www.pref.aichi.jp/soshiki/chiikihoukatu/aichiorangetown-2.html</a>, ( Aichi Prefectural Website is in Japanese but you can choose language by google service. From 2020, 2nd Phase Promotion Conference was started and I was a R&D Working Group member and contributed to make a part of "Aichi Orange Town Concept Phase 2 Action Plan" of Aichi Prefecture.)
- 4. Local activities: This activity was granted by Aichi Prefecture's financial supports. One of sample (Toyoake City) <a href="https://www.city.toyoake.lg.jp/secure/7724/version2">https://www.city.toyoake.lg.jp/secure/7724/version2</a> en.pdf
- 5. Local Citizen activities prized by Aichi Prefecture: <a href="https://m.youtube.com/watch?v=6G18tWJCdQw&feature=youtu.be">https://m.youtube.com/watch?v=6G18tWJCdQw&feature=youtu.be</a>. The presentations are all Japanese. However, if you push Caption button and try to use Camera function of "Google Translate" of your smart phone, you can read what they said on the screen of your smart phone. Please try. The MC & last presenter is Ms. Fuyume Maruyama, NPO Sawayaka-Aichi. She is one of Second Proposers of this COST Action.

Note: I searched information in English because almost information was in Japanese. Therefore, I summarized ppt files.

Japan has two basic policies for the elderly. As you know, Japan has been one of the oldest countries in the recent quarter century and has been ravaged by a demographic change. I summarized historical changes of Laws and Measures, that establish health and medical service for the aged (A) or that build Age-friendly Environments for the Elderly and the Disabled (B), in Japan.

#### (A) Establishing health and medical service for the aged

- National policies
  - 1963 Act on Social Welfare for the Elderly
  - 1973-1983 Free of charge on geriatric medicine over 70 years of age
  - 1982 Law Concerning Securing Medical Care for the Elderly
  - (1984 10% burden of charge on geriatric medicine over 70 years of age)
  - 1987 Appearance of Certificated care workers and Certificated social workers
  - 1991 Revision of Law Concerning Securing Medical Care for the Elderly
  - (1993 Consumption tax 3% was started to contribute for social security)
  - 1997 Public Nursing Care Insurance Law



- 2000 Long-term Care Insurance Law
- (2004 International Conference of Alzheimer's Disease Association)
- (2004 Official Name of Dementia changed from "Chihou-shou" to "Ninchi-shou")
- 2005 Revision of Public Nursing Care Insurance Law (Revision: 2008, 2011, 2014, and 2017)
- 2006 Law Concerning Securing Medical Care for the Elderly
- (2008 Report on "Urgent project to improve medical care and Quality of Dementia)
- 2008 Medical Care System Law for the Late Elderly
- (2012 "Direction of future dementia measures" by Dementia measures Study Project Team")
- 2012"Five-year plan to promote dementia measures" (Orange plan)

The Orange Plan consisted of the following seven pillars.

- 1. Creation and dissemination of standard dementia care paths
- 2. Early diagnosis / early response
- 3. Building medical services that support local life
- 4. Construction of long-term care services that support local life
- 5. Strengthening support for daily life and family in the community
- 6. Strengthening measures for juvenile dementia
- 7. Fostering human resources who will be responsible for medical and long-term care services
- (2013 G8 Dementia Summit in Ise-Shima of Japan )
- 2015 "Comprehensive strategy for promoting dementia measures toward community development that is friendly to elderly people with dementia" (New Orange Plan)
  - Promotion of enlightenment to deepen understanding of dementia
  - Timely and appropriate providing medical care and long-term care according to the condition of dementia
  - Strengthening measures for juvenile dementia
  - Support for caregivers of people with dementia
  - Promotion of age-friendly community development, including people with dementia
  - Promotion of research & development and dissemination of its results related to Dementia prevention, diagnosis, treatment, Rehabilitation model, long-term care model, and etc
  - Emphasizing the perspective of people with dementia and their families
- (2017 International Conference of Alzheimer's Disease Association )
- 2019 "Dementia Policy Promotion Charter"
  - (decided by the Ministerial Meeting on Dementia Policy Promotion on June 18, 2019)
  - 1. Dissemination and enlightenment / personal transmission support
  - 2. Prevention
  - 3. Support for medical care, social care, long-term care services, and caregivers
  - 4. Promotion of barrier-free of dementia and Support for of juvenile dementia / social participation support
  - 5. R & D / industrial promotion
    - These five pillars above 1. 5. are planned and promoted based on the opinions of people with dementia and their families.
- Regional policies (Example: Aichi Prefecture)
- Local policies (Example: Obu city or Toyoake City in Aichi Prefecture)

After Revision of Public Nursing Care Insurance Law on Jun. 2005 (Revision: 2008, 2011, 2014, and 2017)



- Nov. 2007 Aichi Prefecture Late Elderly Medical Care Wide Area Union Ordinance on Late Elderly Medical Care (Revision: Jan. 2008, Oct. 2009, Jan. 2010, Mar. 2011, Dec. 2011, and Jul. 2012)
- Mar. 2008 Obu City Ordinance on Medical Care for the Late Elderly (Revision: Mar. 2018 and May 2020)
- Apr. 2008 Obu City Ordinance Enforcement Regulations on Medical Care for the Late Elderly Revision: Jun. 2012, Jun. 2013, Sep. 2013, Mar. 2015, Dec. 2015, Mar. 2017, Mar. 2018, Jun. 2019, and Oct. 2020)

#### After "New Orange Plan" on Jan. 2015

- Dec. 2017 Aichi Orange Town Concept
- Dec. 2017 Obu City Town development promotion ordinance without anxiety about dementia (First in City of Japan)
- Dec. 2018 Aichi Prefecture Dementia Policy Promotion Ordinance (First in Prefecture of Japan).
  Town development model activity with a deep understanding of dementia (Supporting to Cities and towns from 2018 to 2020), Nagoya, Toyohashi, Okazaki, Hannda, Kariya, Toyota, Anjo, Takahama, Toyoake¾, and Nagakute cities ¾https://www.city.toyoake.lg.jp/secure/7724/version2\_en.pdf, Obu city: original activities (See attached PDF files.)
- After Law concerning securing medical care for the elderly on Jun. 2006 and Law concerning medical care system for the late elderly on Apr. 2008
- Mar. 2008 Obu City Ordinance on Medical Care for the Late Elderly (Revision: Mar. 2018 and May 2020)
- Apr. 2008 Obu City Ordinance Enforcement Regulations on Medical Care for the Late Elderly (Revision: Jun. 2012, Jun. 2013, Sep. 2013, Mar. 2015, Dec. 2015, Mar. 2017, Mar. 2018, Jun. 2019, and Oct. 2020)

#### B) Building Age-friendly Environments for the Elderly and the Disabled

#### National policies

- 1970 Fundamental law for Measures Concerning Mentally and Physically Handicapped Persons
- 1993 Fundamental law for Counter Measures for Mentally and Physically Handicapped Persons
- 1994 Heart-buil. (= Heartful Building) Act: "Law for Promotion of Construction of Specific Buildings that can be Smoothly Used by the Elderly, Persons with Disabilities and etc."
- 2000 Barrier-Free Transportation Act: "Act on Promotion of Smooth Movement of Elderly People, Persons with Disabilities, etc. Using Public Transportation"
- 2004 Revised Fundamental law for Counter Measures for Mentally and Physically Handicapped Persons
- 2006 New Barrier-Free Act, which was integrated with Heart-buil. and Barrier-Free Transportation Acts: "Act on Promotion of Smooth Movement of Elderly People and Persons with Disabilities"
- Regional policies (Example: Aichi Prefecture)
- Local policies (Example: Obu city or Toyoake City)

After Heart-buil. Act on Jun. 1994

October 1994 Aichi Prefecture People-friendly town development promotion ordinance (Revision Mar. & Oct. 2000, Dec. 2004, and Mar. 2007)



- Personnel Training and Publicity since 1995 : Prize for People-friendly town development ⇒NPO Sawayaka Aichi
- 2. Support to Cities and towns since 1995: Promotion Activity for People-friendly town development ⇒ Obu City NPO Sawayaka Aichi and Obu City <a href="https://m.youtube.com/watch?v=6G18tWJCdQw&feature=youtu.be">https://m.youtube.com/watch?v=6G18tWJCdQw&feature=youtu.be</a> (These presentations were granted by Aichi Prefecture)

After Barrier-Free Transportation Act on May 2000 and New Barrier-Free Act on Jun. 2006

 Dec. 2012 Ordinance that establishes standards for road structure necessary for facilitating movement in Obu City

Note: Obu city (Area: 33.66 km², Total population: 92,479 Persons)

Aichi Prefecture (Area: 5,172.92 km², Total population: 7,521,192 Persons)

The total fertility rate: National Average of Japan 1.43 (2013-2017)

Aichi Prefecture Average 1.55

Obu City (No1. in Aichi Pref.) 1.93

### (National, regional, local) ecosystem on SHAFE of the partner you are involved in your country

Now in progress. I will build an ecosystem idea in detail since our Honorary President Dr. Shinn-ichi Ohshima (National Center for Geriatrics and Gerontology, Japan) asked me to make a basic idea at the end of April 2021 and I responded quickly for 55 hours. This plan includes education and contributes to not only one area but also other area flexibly to suit for each area. I don't know the future of this plan and our Honorary President has a ball now.

On the other hand, an open call for participants regarding designation of super city type national strategic special zone is now calling from Japanese government in domestic public offering, that can be checked in the link below. In this public offering, cooperative structures or bonds consisting of public authorities, companies, non-governmental organisations, health and social care providers, research and academia for care provision and ICT implementation. However, all idea seems that its extensibility would be limited. <a href="https://www.chisou.go.jp/tiiki/kokusentoc/supercity/supercity\_supercity\_sckoubo2.html">https://www.chisou.go.jp/tiiki/kokusentoc/supercity/supercity\_sckoubo2.html</a>

(National, regional, local) funding opportunities on SHAFE in your country Collaboration among EU and Japan:

Examples: e-VITA Projects (EU-Japan VIRTUAL COACH FOR SMART AGEING) in Horizon 2020. https://www.tohoku.ac.jp/japanese/newimg/pressimg/tohokuuniv-press20201020 03web e-VITA.pdf.

This project consists of Japan team (Tohoku Univ., National Center for Geriatrics and Gerontology, and etc.) and European Team (Germany: UNIVERSITAET SIEGEN (USI), DIOCESAN CARITAS ASSOCIATION COLOGNE E.V. (CARITAS), FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V. (FHG), INSTITUT FÜR ANGEWANDTE INFORMATIK e.V. (INFAI), INSTITUT FUR EXPERIMENTELLE PSYCHOPHYSIOLOGIE GMBH (IXP), France: DELTA DORE S.A. (DELTA), ASSISTANCE PUBLIQUE DES HÔPITAUX DE PARIS (HBP), Italy: INSTITUT MINES-TELECOM (IMT), ENGINEERING - INGEGNERIA INFORMATICA SPA (ENG), ISTITUTO NAZIONALE DI RIPOSO E CURA ANZIANI(INRCA), UNIVERSITA POLITECNICA DELLE MARCHE (UNIVPM), and Bergy: AGE PLATFORM EUROPE AISBL (AGE) ).



**Private B to B promotion is supported by EEN-Japan.** <a href="https://www.een-japan.eu/ja/eu-profile/it-ecg-smartphones.">https://www.een-japan.eu/ja/eu-profile/it-ecg-smartphones.</a> I get almost information about EU-Japan collaboration, that was mentioned above, from EU-Japan Centre for Industrial Cooperation .

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFF

I introduce the activity of NPO Sawayaka Aichi. Please check my paper. <a href="https://www.mdpi.com/2076-0760/8/4/110">https://www.mdpi.com/2076-0760/8/4/110</a>

In the past, On barrier-free designing of Chubu Centrair International airport (IATA:NGO), discussions of all stakeholders including the disabled people for 4 years contributed to the design and practice of Chubu Centrair International Airport. I knew the progress. https://www.centrair.jp/en/index.html

## 19. Kosovo

Contributor: Avni Rexhepi

## (National, regional, local) policies on Smart Healthy Age-Friendly Environments

For example, LAW (NO. 03/L-019) ON VOCATIONAL ABILITY, REHABILITATION AND EMPLOYMENT OF PEOPLE WITH DISABILITIES. There is also a "Strategic Plan for granting inclusiveness (regarding elderly, individuals with disabilities, etc)".

#### Relevant stakeholders and policy makers

	Local	Regional	National
Health	Municipality, Health		Ministry of Health
	Directorate		
Social	Municipality,		Government, Ministry
	Directorate labour and		of labour and social
	social welfare		welfare
Built environment	Municipality,		Government, Ministry
	Directorate of		of Environment and
	Environment and		Spatial Planning
	Spatial Planning		
Digitalisation			Ministry of Science and
			Education
Development	Municipality,		Ministry of Economy
	Directorate of		
	Development		
Education	Municipality,		Ministry of Science and
	Directorate of		Education
	Education		
Research			Ministry of Science and
			Education



Other: please specify	Government, Ministry:
-Labour and Social	https://mpms.rks-
Welfare	gov.net/en/
Other: please specify	

(National, regional, local) ecosystem on SHAFE of the partner: NA

## (National, regional, local) funding opportunities on SHAFE

Monthly payments (Elderly Pensions) are paid to individuals aged 65 and over by the ministry of labour and social welfare. Municipal elderly centres (House of elderly) are financed by local and national government, and municipalities provide free urban transport for the elderly.

There are examples of private initiatives that have opened local "Elderly Houses", providing shelter and care, with monthly payment and there are also private "Elderly House/Centres" that offer free shelter and care, funded by donors.

Ministry of Education provides funding for small research projects (including the ones that have clear impact at local level on citizens).

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

- https://venture-up.org/ Entrepreneurship Center and official incubator of the University of Prishtina.
- https://ickosovo.com/ Innovation Centre Kosovo (ICK) is a centre whose aim is to connect research
  and development component of scientific field with the business sector, focusing on creating new
  job opportunities oriented towards the future, based on knowledge and new technology.
- <a href="https://caritaskosova.org/repository/docs/policy">https://caritaskosova.org/repository/docs/policy</a> paper and recommendations on social inclusi on of people with disabilities and mental disorders in kosovo.pdf

# 20. Latvia

Contributor: Assoc.prof. Signe Tomsone

# (National, regional, local) policies on Smart Healthy Age-Friendly Environments

**In Latvia**, on 6 September 2016, the Cabinet of Ministers approved the conceptual report Active Ageing Strategy for Longer and Better Working Life in Latvia, developed by the Ministry of Welfare in cooperation with other institutions and social partners. The conceptual report contains the following lines of action:

- employment an inclusive labour market for older people;
- education educated and competent older workers in accordance with changing labour market conditions;



- **health and active lifestyle** healthy and physically active older people who continue to live an active and independent life for as long as possible;
- **social security** socially protected elderly people.

The informative report of the Ministry of on the progress of the implementation of the conceptual report Active Ageing Strategy for Longer and Better Working Life in Latvia was published in 2019 Welfare (MoW, June 2019). The report is available on the website of the Ministry of Welfare: http://www.lm.gov.lv/lv/nozares-politika/darba-tirgus?id=91063

Some findings from the report summary and conclusions:

- Current demographic trends in Latvia indicate an ageing population and a declining population, especially in people of working age, resulting in a declining share of the working age population. At the beginning of 2018, there were 1,934,379 inhabitants in Latvia, 40.9% (780,667) of which were older than 50 years. The age group of 50–64 years makes up 32.4% of the working age population (15–64 years).
- The working age population is declining even faster than the total population, driven mainly by the large decline in the 15–24 age group due to the low birth rate in the 1990s and the high emigration rates in recent years for the population under 35.
- Since the financial and economic crisis, the level of economic activity and employment has been gradually increasing in Latvia. An increase in the indicators is observed in all age groups. In 2017, the employment rate of persons aged 50–64 in Latvia was 67.5% (64.9% in the EU), while in 2011 the employment rate was only 59.3%.
- In the field of employment, the elderly population in Latvia is characterized by relatively high
  participation in the labour market, but the main challenge is unemployment and especially long-term
  unemployment, which is influenced by factors such as lower mobility, both in terms of changing jobs
  and returning to the labour market, stereotypes by employers, education and health aspects as well
  as care responsibilities.
- Improving knowledge and skills throughout life is particularly important for maintaining competitiveness in the labour market, and for older people in particular. However, the participation of older people in adult education is relatively low and less widespread than in other EU Member States. The low level of involvement in adult education activities is based on a lack of interest on the part of employees and companies, costs, lack of time, availability of information and programs, and the structure of the economy and companies.
- The health status of the population in the context of an ageing population is one of the most important factors that has a major impact on employment opportunities and quality of life in general, so improving access to quality health care and long-term care and increasing its effectiveness is a key principle of health reforms.
- As part of the reform of the health care system, the Ministry of Health is implementing various
  measures to improve access to health care and reduce waiting times, as well as organizational
  aspects, which include significant improvements for patients in general, including the elderly, but
  funding for the health sector in general is still insufficient.
- In Latvia, compared to other EU Member States, the number of people at risk of poverty is increasing every year, and especially among the elderly. The population after the age of 60 is at a significantly



higher risk of poverty than other age groups, moreover, in Latvia the increase in the risk of poverty in 2017 has been significant compared to other age groups.

- The MoW continues to work on improving the social security system. Social services are constantly being improved, as well as social protection policy measures are being implemented to improve the situation of population groups often at risk of poverty and social exclusion (pensioners, people with disabilities, families with children), positively influencing their future living standards, improving their social protection and reducing the risk of poverty and social exclusion.
- In general, it can be concluded that significant progress has been made in the implementation of several measures and it is necessary to continue the existing measures in the fields of employment, education, health, social security and other related areas, analysing their impact on changes in the situation. Significant challenges remain and respective improvements need to be made in the areas of access to health, skills development of employees, reduction of the risk of poverty, and quality of work to improve the situation of active ageing as a whole.

#### Additional information on older people in Latvia

Protection of older people is responsibility of Ministry of Welfare: <a href="https://www.lm.gov.lv/lv/senioriem">https://www.lm.gov.lv/lv/senioriem</a>

Lifelong learning for older people: <a href="https://epale.ec.europa.eu/lv/blog/senioru-ieklausana-muzizglitiba-latvija">https://epale.ec.europa.eu/lv/blog/senioru-ieklausana-muzizglitiba-latvija</a>

To improve digital competencies in society, the Programme of Digital Agents started in 2018. Older people is one of the target groups: <a href="https://mana.latvija.lv/digitala-agente-digitalo-prasmju-apgusana-senioriem-nav-tikai-jaunas-zinasanas-ta-ir-ari-komunikacija-starp-paaudzem-2/">https://mana.latvija.lv/digitala-agente-digitalo-prasmju-apgusana-senioriem-nav-tikai-jaunas-zinasanas-ta-ir-ari-komunikacija-starp-paaudzem-2/</a>

My very brief conclusion on SHAFE (Smart Healthy Age-Friendly Environments) principles in legislation and policies in Latvia would be that there is no specific focus particularly on older people. Initiatives are fragmented (mainly separate projects), responsibility is shared with different organizations with quite week cooperation and synergies.

### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health	+	+	+
Social	+	+	+
Built environment	+	+	+
Digitalisation	+	+	+
Development	+	+	+
Education	+	+	+
Research	+	+	+
Other: please specify			
Other: please specify			

### (National, regional, local) ecosystem on SHAFE of the partner

I am not aware that we currently have any good ecosystem on SHAFE in Latvia. Will continue my exploration.



Example of one interesting initiative I am taking part: Smart Silver Lab: https://www.connectlatvia.lv/osiris/

Project OSIRIS description: <a href="https://www.osiris-smartsilvereconomy.eu/">https://www.osiris-smartsilvereconomy.eu/</a>

#### (National, regional, local) funding opportunities on SHAFE

Research funding by Latvian Council of Science: <a href="https://lzp.gov.lv/en/">https://lzp.gov.lv/en/</a>

Funding schemes: State research programme and Fundamental and applied research projects.

Other funding opportunities should be explored.

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

See my response for question Nr. 3.

# 21. Lithuania

Contributor: Aurelija Blaževičienė

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

#### National Science Program "Healthy Aging"

The aim of the National Science Program "Healthy Aging" is to comprehensively analyze and solve the issues of biomedicine and social medicine of healthy aging in the Lithuanian society, using the development of science and technology, the results of fundamental and applied research.

3 research tasks are planned for the implementation of the program in 2015–2021. The research carried out according to them is financed from the state budget appropriations of the Republic of Lithuania.

**Task 1.** To develop new methods and technologies for the assessment and prevention of disease risk factors, to study their impact on healthy and quality life expectancy.

**Task 2.** Using biotechnology, nanotechnology, imaging, information and telecommunications technologies, to develop methods for early diagnosis and prognosis of diseases that shorten healthy and quality life expectancy.

**Task 3**. To develop, improve and research methods for the treatment of health conditions that affect healthy and quality life expectancy, rehabilitation and long-term monitoring of patients, and technologies to reduce the social exclusion of the elderly in Lithuania.

https://www.lmt.lt/lt/mokslo-finansavimas/valstybes-uzsakomieji-tyrimai/sveikas-senejimas-nmp/292

### Relevant stakeholders and policy makers

Local	Regional	National
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Health	X	х	х
Social	X	х	х
Built environment	X	х	
Digitalisation			Х
Development	X	Х	Х
Education			Х
Research			х
Other: please specify			
Other: please specify			

Result from scientist or some communities initiative fragmentally implemented in the difference municipalities.

# (National, regional, local) funding opportunities on SHAFE

Municipal health community projects funded by municipalities

Research grants

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

I can't provide any examples because in Lithuania it rather young concept healthy ageing and smart environmental for elderly. And we have individual initiatives in the some regionals.

## 22. Moldova

Contributor: Prof. Dumitru Todoroi

#### 1. (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Civic Association "Union of Pensioners of Moldova" with the support of Civic Association "Parliament 90" and the Association "AESM Seniors" of the Academy of Economic Studies of Moldova aims to develop and carry out a program for the construction and management of the Ecosystem for Elderly of Moldova which constitutes the net of 24 Asylums for the Elderly (Acronym: Net4MoldEld), with the capacity of 5232 beds consisting of 8.3% of the number needed for this category of citizens. The total value of the investment is estimated at 95 mln. Euro, which returns 800 euros per square meter, including housekeepers, machinery, furniture, infrastructure, and so on.

Advisers to the President of Moldova: - Mrs. Ala Nemerenco - medical problems (GSM <u>a.nemirenco@prm.md</u>); - Mr. Ana Revenco - Social Issues (GSM <u>a.revenco@prm.md</u>); -Mrs. Elena Drută - Problems with Diaspora (GSM e.druţa@ prm.md); -Mr. Vlad Negruţa - economic problems (GSM <u>v.negruţa@prm.md</u>); -Mrs Cristina Gherasimov - external problems (GSM c.gherasimov@ prm.md). Prof. Victor Leancă, President Civic Association "Union of Pensioners of R.Moldova"; Boris Carandiuc, Member of the Civic Association "Parliament 90", GSM 0691-52-500; email: <u>eneadzz@gmail.com</u>,



Dumitru Todoroi, Member of the Civic Association "Parliament 90" and President of the Association "AESM Seniors" of the Academy of Economic Studies of Moldova, GSM 069367027, e-mail: todoroi@ase.md

#### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health			+
Social	+	+	+
Built environment	+	+	+
Digitalisation			+
Development	+	+	+
Education			+
Research	+	+	+
Other: please specify			
Other: please specify			

Mostly the organizations at the beginning are Association "Parliament 90", President of the Association "AESM Seniors" of the Academy of Economic Studies of Moldova, AO MicusaStil, NGO ECOInfoMold

# 6. Strategies to involve policy makers, stakeholders in NET4 and setting the political agendas for SHAFE Working Plan

- 6.1. Choosing the best and most relevant results of the research results obtained by seniors and their co-partners under COST CA19136 activities and presented at the International TELECONFERENCE of young researchers "Creation of the Society of Consciousness" 10th edition, Chisinau, 12-13 March 2021.
- 6.2. Proposition to the authors of the most relevant research results, obtained by seniors and their co-partners (participants in the collaborative initiative) in the framework of COST CA19136 activities, to exhibit the results in the format of extended and standardised texts (4, 6 or 8 pages) 6.3. Presentation of the results of the selected research in the format of extended and standardised texts for publication in accordance with the requirements of the Journal "ARA Journal of Sciences", Edited by ARA Publishing House, California Davis University, USA. 6.4. Formation of the Volume of the Journal "ARA Journal of Arts and Culture" with extended and standardised texts of the results of research obtained by seniors and their co-partners. 6.5. Presentation for Publication by ARA Publishing House of the Volume of the Journal "ARA Journal of Science" with extended and standardised texts of the results of research obtained by seniors and their
- 6.6. Publication of the volume of the Journal "ARA Journal of Sciences" with extended and standardised texts of the results of research obtained by seniors and their co-partners and its presentation to the Core Group of COST CA19136 for dissemination, publicity, SHAFE impact, and sustainability.
- 7. (National, regional, local) ecosystem on SHAFE of the partner, Strategies to build, maintain, join an ecosystem



Developing the knowledge and experience acquired by older people (seniors) in their desire to continue working in green societies for society.

Most of the scientific results, communicated at TELE-2021, are obtained by research groups, led by members and associate members of the AESM Seniors Association personally and/or with the support and management of the research work carried out by the intergenerational staff of the AESM and the Partners. The list of participants in the collaborative initiative with key research contributions carried out in the framework of COST CA19136 activities is set out below.

Dumitru Micuşa, Associate Member of the Association "Seniors AESM", PhD Stdent, Free International University of Moldova, researcher in the issues of adult psychology. Dumitru presents some research results, achieved under COST CA19136, such as: Personality of young researchers in psychological collaboration between generations; Measuring, maintaining and improving the psychological well-being of retired seniors with COST support.

Valentina Capatina, Member of the Association "Seniors AESM", assoc. prof., PhD, Dr. in pedagogy, Academy of Economic Studies of Moldova (AESM), leader in the research carried out within the framework of intergenerational SMEs with the participation of the elderly people. Valentina together with her colleagues presents research products, such as: The gap of opinions between generations; The importance of communication in preventing conflicts between generations; Working conditions of an ageing workforce; For an active life at any Age.

Aureliu Zgureanu, Associate Member of the Association "Seniors AESM", assoc. prof., PhD, Dr. in information security, leader in ICT research with applications in information SMEs aimed at the application of intergenerational staff in adult associations with activities at home and at workplaces. Aureliu presents research products, such as: Deploying Enterprise Root Certificate Authority; Ensuring quality levels within frequent changed software product; Security features of information system that use micro-service architecture.

Maria Moraru, Member of the Association "AESM Seniors", Senior Specialist in The Computerization of the Society by investigating the possibilities of adult membership in household activities. Maria together with her colleagues present research products, such as: Continuity of intellectual and emotional activities of older people; Social media for all generations; Human influence on the transition of the current ecosystem in the Republic of Moldova; Features of the emotional sphere of people in old age.

Corina Bulgac , Associate Member of the Association "Seniors AESM", assoc. prof., PhD, Dr. in economy, Doctoral School of AESM, project coordinator, carried out by AESM students and masters in the fields of media for economic SMEs. Corina presents results: Activity of Economic Agencies having disabled employees; Effect of fiscal policy on the quality of life of older people; National and international employment tax policy aspects.

Marina Coban, Member of the Association "AESM Seniors", assoc. prof., PhD, Dr. in economy, research coordinator with a focus on the creation of Ecosystems with older people in its intergenerational cooperation. Marina presents some result: Bouquet of business plans initiated by the Association "AESM Seniors".

The Ecosystem for Elderly of Moldova which constitutes the net of 24 Asylums for the Elderly (Acronym: Net4MoldEld)

Civic Association "Union of Pensioners of Moldova";
 Civic Association "Parliament 90";
 Association "AESM Seniors" of the Academy of Economic Studies of Moldova.



Prof. Victor Leancă, President Civic Association "Union of Pensioners of R.Moldova"; Boris Carandiuc, Member of the Civic Association "Parliament 90", GSM 0691-52-500; email: eneadzz@gmail.com,

Dumitru Todoroi, Member of the Civic Association "Parliament 90" and President of the Association "AESM Seniors" of the Academy of Economic Studies of Moldova, GSM 069367027, email: todoroi@ase.md

#### 8. (National, regional, local) funding opportunities **SHAFE** Strategies for successful SHAFE business models

- 8.1. Developing the knowledge and experience acquired by older people (seniors) in their desire to continue working green societies for society.
- 8.2. Selection of the most relevant research results obtained by seniors and their co-partners from Association "AESM Seniors" (green society) in the framework of COST CA19136 activities.
  - 8.3. Developing the results of the selected research and its presentation for publication.
- 8.4. Completing the volume with the results of the selected research and preparing it for publication.
- 8.5. Publication of the volume and its presentation to the Core Group of COST CA19136 for dissemination, publicity, SHAFE impact, and sustainability.

Most of research results are obtained by the research groups, led by the members of the Association "Seniors AESM" personally and/or with the support and management of the research work carried out by the intergenerational staff of the **AESM** and the university partners the evaluation the projects:

- **ICT** solutions into habitats will allow seniors to Integration live at home longer;
- Recipes for a better psychological well-being towards the continuity of spiritual, intellectual and emotional activities in society of older people;
  - Business plans, created and implemented by professors, which are employed, associated or affiliated with AESM;
  - **Ensuring** active, healthy, safe aging the country's rural population;
- Intergenerational relationship in listening, understanding. communication:
- Internet behavior and individual psychological characteristics of youngsters and Generation X;
- Transition pollution problems of current ecosystems in maintaining human health; of
- people; Benefits of studying music in older citizens;
- Chamber music on the transmission, maintenance and development of spiritual, intellectual and emotional well-
- being elderly;
  - The motivational factors for the continuity of work and professional arassment of the elderly;

processes

Emotionality

assurance

quality

- offered elderly **Tourism** services the through the implementation of technology;
- Implementation of fundamentals of music among the 30 million Romanians in the World;
- models Mass media and communication for active aging;
- Activities and their diversity for elderly in promotion healthy and dvnamic lifestyle;
- policies and measures to combat discrimination on the grounds disability;
- Decent life and effects of fiscal policy to promote adequate standard of living of older people;
- / SSL certificates and its automated issuance for companies and individuals: "full" TLS
- Security of information systems for software products;

delivering

for

- Services for fast feedback through mobile technologies in teaching process elderly;
- Characteristics of the continuity of activities, IQ, EQ and psychological well-being of the elderly;
- Opinions of young researchers on the subjective state of well-being and their self-acceptance;

frequent

older

changed

software

products;



- Self-transcendence as a critical element of human consciousness, through which people can learn, preserve their transform health evolve and Virtually material-informational nucleus for management systems as а economy. Main expected results have a direct contribution to the progress towards the COST Action 19136 objectives to ensure dissemination, evaluation and exploitation of the Action's results together with establishing a strong network with the relevant industrial stakeholders and deliverables intends to achieve specific objectives on design and creation innovative ICT solutions that will be integrated into Smart habitat environments according to user's needs.

The total value of the investment is estimated at 95 mln Euro, which returns 800 euros per square meter, including housekeepers, machinery, furniture, infrastructure, and so on.

For the financing of the project we are betting on the European Union with the help of Romania, the Government of Moldova, donations from local, district and city logs, donations to the cities and the twin communes, support from businessmen from all over the world.

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

#### 9. Conclusions and further actions

Association "AESM Seniors" of the Academy of Economic Studies of Moldova (AESM), which is composed of about 150 adults (retired teachers and teachers of age around retirement), constitutes a type of human ecological community (Ecosystem), in which the members of the association are in continuous activity in the **AESM** with affiliate status (Volunteer) AESM. Performed research by the research groups, led by the members of the Association "Seniors AESM" personally and/or with the support and management of the research work carried out by the intergenerational staff of the AESM and the university partners contribute to the COST Excellence and inclusiveness is developed policy around: - geographical spread which includes less research-intensive such Inclusiveness Target Countries as the of - career stage: involving early career investigators such as students, masters, PhD students, and young in the Republic doctors sciences of the of Moldova, - gender balance, which includes more than 50% of leaders and participants in research work, the results of which have already been communicated within TELE-2021 and the summaries of which have been published under the aegis of COST Action in the Journal "Society Consciousness Computers", No. 7, 2021. Benefits from products created by the authors of the researchs carried out within the COST Activities are of two types: social benefits offered to the beneficiaries of products created by the authors and benefits for the authors – the creators of the products.

Social benefits:

- Obtaining information about the products: communication;
- Transmission of products information among possible beneficiaries: dissemination;
- Product publicity and implementation.

Benefits for the authors:

- Positive emotions regarding the possibility of announcing the products the results of research to be listened to, discussed and analyzed by colleagues;
- Positive emotions from the implementation of the products, created by the authors of the products in favor of society; the benefits being announced at the end of the discussions on the results obtained;
- Positive emotions from the publication, communication, dissemination and publicity of the results, of the



products created by the authors ;
- Positive emotions from the possibility of obtaining funding for the product created by the authors.
All these **benefits** directly refer to the results obtained within the **current Virtual Mobility Grant**.

Performed research have a direct contribution to the Action plans for stakeholder engagement towards the Action objectives to ensure dissemination, evaluation and exploitation of the Action's results together with establishing a strong network with the relevant industrial stakeholders and deliverables intends to achieve specific objectives on design and creation innovative ICT solutions that will be integrated into Smart habitat environments according user's needs for to an active The Capacity Building, which concerns the present Virtual Mobility, includes: - the promotion of the participation and innovation of European researchers, engineers and scholars from less research intensive countries, such as Moldova, regardless of their age and gender, in networking activities aiming to develop ecosystems of well-being for the elderly, - International cooperation between researchers from COST member countries (Romania , Greece) and International Partner countries (USA), bringing together different disciplines to enable breakthrough developments the field of Active scientific in Assisted Living, - creation knowledge alliances between research group from universities in different countries to increase the impact of research in the economic, industrial, and social sectors and favour the production of new for making new ecosystems of active ageing a reality, products and services - ensuring the correct integration, dissemination and exploitation of all knowledge and results from Net4Age-Friendly among the research groups of interest, economic, industrial, and social sectors, and users.

# 23. Montenegro

Contributors: Andjela Jakšić Stojanović, Marko Gošović

# 5. (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Regarding public health, national legislation on healthcare is partly aligned with the EU practices. Average life expectancy rose slightly from 76.1 to 76.8 between 2010 and 2018. The country's health budget is around 5 % of GDP for many years.

In recent period, some important laws regarding this issue have been adopted such as:

- o The Law on Health Care (Official Gazette of the Republic of Montenegro, no. 3/16, 39/16 and 2/17),
- o The Law on Health Insurance (Official Gazette of the Republic of Montenegro, no. 6/16, 2/17 and 22/17),
- The Law on Pension and Disabilities Insurance (Official Gazette of the Republic of Montenegro, no. 54/03, 39/04, 61/04, 79/04, 81/04, 29/05, 14/07, 47/07, 12/07 and 13/07 and Official Gazette of the Republic of Montenegro, no. 79/08, 14/10, 78/10, 34/11, 39/11, 40/11, 66/12, 36/13, 38/13, 61/13, 6/14, 60/14, 10/15, 44/15, 42/16 and 55/16),
- o The Law on Social and Child Protection
- o The Law on Social Council, adopted on 26 June 2018.
- o The Law amending the Law on Protection and Health at Work, adopted on 26 August 2018,
- o The Law on Mediation in Employment and Rights during Unemployment, adopted 30 April 2019
- The Law of Labor.

In recent years some important strategic acts have been adopted such as:



- Strategy of Healthcare Development in Montenegro 2003-2020. <a href="https://extranet.who.int/countryplanningcycles/sites/default/files/planning\_cycle\_repository/montenegro.pdf">https://extranet.who.int/countryplanningcycles/sites/default/files/planning\_cycle\_repository/montenegro.pdf</a>
- Strategy for Development of Integrated Health Information System (IHIS) and eHealth for the period
   2018 2022.
- o Strategy for improving the quality of health care and patient safety for the period 2019-2023
- o Strategy for the Development of the Social Welfare System for the Elderly 2018-2022
- o Mental Health Care and Improvement Strategy In Montenegro 2019-2023.
- o National Strategy of Social Inclusion of Roma and Egyptians 2016-2020
- Smart specialisation strategy of Montenegro 2020-2024

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjx4I7\_I57wAhVto4s KHVQ7Dh0QFjABegQIAhAD&url=https%3A%2F%2Fmna.gov.me%2FResourceManager%2FFileDownload.asp x%3FrId%3D395955%26rType%3D2&usq=AOvVaw1Su7Q-vC3fSYtS6p6vmV5i

The related S3 guidelines (2018-2024) were adopted in December 2018.

Something that is significantly improved in previous period is eHealth. The Institute for Public Health is responsible for all eHealth issues. Some services such as: eAppointments, ePrescription, Test results, ePharmacy service were introduced. There was significant increase of demands for these services especially during pandemic time. services introduced in November 2018.

# Relevant stakeholders and policy makers

	Local	Regional	National
Health			Ministry of Health
	Hospitals		Institute for Public
	Retirements homes		Health
Social	Centres for social work		Ministry of Justice,
	Retirements homes		Human and Minority
			Rights
			Ministry of Economic
			Development
			Ministry of Finances
			Ministry of Education,
			Science, Culture and
			Sports
			Pension fund of
			Montenegro



Built environment  Digitalisation	NGO Green Home  Digitalizuj.me Amplitudo	Ministry of Ecology, Spatial Planning and Urbanism  Ministry of Public Administration, Digital Society and Media
Development	Tehnopolis	
Education		"University of Montenegro", "University Mediterranean" "University of Donja Gorica (UDG)"
Research		"University of Montenegro", "University Mediterranean" "University of Donja Gorica (UDG)" Montenegrin Academy of Sciences and Arts
Other: please specify		
Other: please specify		

During the realisation of Erasmus + PH-ELIM project we have established strong and successful cooperation with different stakeholders from the field of public health such as Ministry of health, Institute of Public Health, representatives of higher education institutions that deal with education in public health. Here is the project link: <a href="https://ph-elim.net">https://ph-elim.net</a>

# (National, regional, local) funding opportunities on SHAFE

Funds provided by:

- Ministry of Education, Science, Culture and Sports
- Ministry of Economic Development

These two ministries have certain funds and publish open calls every year regarding to realisation and implementation of different projects in fields that may be complementary with SHAFE. Here is the example of the call: <a href="https://mna.gov.me/ministarstvo/Konkurs">https://mna.gov.me/ministarstvo/Konkurs</a> naucnoistrazivacki projekti/

# 24. Netherlands

Contributors: Willeke van Staalduinen and Joost van Hoof



#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

- The national government of the Netherlands mainly prescribes the boundaries for the realisation of
  policies at local level. SHAFE policies as such do not exist in the Netherlands, however looking at several
  features it is compliant. Accessibility, social housing, independent living, combat isolation and dementia
  prevention programmes are launched by the national government and promoted to local governments
  by law or funding schemes.
- Legislation:
  - Dutch Building Code (Bouwbesluit)
  - Municipal Support Act (Wet maatschappelijke ondersteuning)
  - Housing Act (Woningwet)
  - o District nursing via the Health Insurance Act (Zorgverzekeringswet)
  - o Public health Act (Wet publieke gezondheid)
  - Long-term care Act (Wet langdurige zorg)
  - o eHealth financing measures for care organisations
- National funding programmes for municipalities, healthcare organisations, housing organisations etc. regarding combat isolation, prevention programmes, eHealth implementation

## Relevant stakeholders and policy makers

	Local	Regional	National
Health	Health and social care	Regional insurance	Ministry of Health,
	providers	offices	Welfare and Sports
	Home care providers		(VWS)
	Public health		
	administration		
Social	Municipality and its		Ministry of the Interior
	organisations		and Kingdom Relations
Built environment	Social housing	Provinces:	
	associations	environmental	
	Private housing	perspective	
	enterprises and		
	developers		
	City planning/urban		
	planning		
Digitalisation	Municipalities		Digital Alliance
			Telecom and cable
			providers
			Ministry of
			Infrastructure
Development	NA		
Education	Schools and	Schools and	Ministry of Education
	universities	universities	



Research	Universities	Universities	Ministry of Education
	(fundamental and	(fundamental and	Ministry of Economic
	applied sciences)	applied sciences)	Affairs
			National agencies
			Climate
Citizens	Citizens at local level		National associations
			of citizens
Other: please specify			

Name: Knowledge Platform Age-friendly The Hague

#### Partners:

- Research: The Hague University of Applied Sciences, Urban Ageing, Leiden University of Applied Sciences, Social domain, Leiden University, Campus The Hague
- Citizens: Older People's Council The Hague
- Authorities: Municipality of The Hague and Public Health Administration
- Business/NGO: Welfare organisation Xtra, Consultancy agency Hulsebosch Advies, AFEdemy, Academy on age-friendly environments in Europe BV

The ecosystem is open to include additional research organisations and businesses/NGOs

#### (National, regional, local) funding opportunities on SHAFE

The Hague provides several funding<sup>38</sup> opportunities that are in line with SHAFE measures, such as for environment and sustainability, neighbourhood activities, housing, culture, care and community support and sports.

The municipality of Gouda provides funding<sup>39</sup> to Gouda citizens and organisations to work on the topics of 'safety', 'liveability' and 'social structure' in Gouda. Conditions are that the funding must benefit Gouda citizens, that without funding it cannot take place and that they are in line with Gouda policy.

At national level, the Dutch government provides several kinds of funding and information:

- The Ministry of Health provides a website showcasing many care and eHealth solutions: Zorg van nu<sup>40</sup> (Care at the present) and Zorg voor Innoveren<sup>41</sup> (Care for innovation).
- The Ministry of Health fosters acceleration programmes to exchange information between care professional, patient, professional networks and between the care domains long term care and acute care (VIPP Versnellingsprogramma Informatie-uitwisseling Patiënt en Professional InZicht). More information on the Zorg van Nu website.

<sup>38</sup> denhaag.nl/nl/subsidies.htm

<sup>39</sup> gouda.nl/Inwoners/Subsidieloket

<sup>40</sup> zorgvannu.nl

<sup>41</sup> zorgvoorinnoveren.nl



- The Ministry of Health and Netherlands Enterprise Agency offer the e-Health at home funding programme 'Stimuleringsregeling e-health Thuis<sup>42</sup> (SET). SET fosters scaling up and implementation of the use of existing e-health applications for older adults and people with a chronic disease or disability at home. The funding is available for care professionals who facilitate care and support at home and wants to cooperate with a purchaser.
- Ministry of Health: Innovation Impulse<sup>43</sup> Care providers people with disabilities. This funding is meant for healthcare providers to implement existing technologies.
- Ministry of Health: 15% of the budget for nursing homes is for innovations and working hours saving measures.
- Netherlands Enterprise Agency (Rijksdienst voor Ondernemend Nederland<sup>44</sup>): Investment funds Seed capital for e-health start-ups. Especially for upscaling.

Some Dutch City Councils also provide 360° services, like YES!Delft<sup>45</sup>, a tech incubator, to turn innovative ideas based on disruptive technology into successful social entrepreneurship. These initiatives connect an ecosystem of experts, mentors, corporate partners and investors. In these incubators, providers can get in contact with initiatives to see the different possibilities and companies, they use the regional centres to get in contact with users.

More concretely in the SHAFE domain, also Dutch universities, Erasmus University Rotterdam, Erasmus MC and TU Delft, are cooperating to develop a joint eco-system<sup>46</sup> to address the major social challenges in the SMART, HEALTH, BUILT and even BUSINESS fields. It will provide a working space in which scientists in the fields of medicine and the health sciences, technical sciences and social sciences can collaborate with businesses and institutions in start-ups, scale-ups and wet labs. It will have co-creation sites all over the region. "This far-reaching collaboration gives a better opportunity for realising revolutionary solutions and for systematically advancing the social embedding and acceptance of new technologies and medical developments," says Hans Smits, interim President of the Erasmus University's Executive Board.

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

Learning and training offers on SHAFE:

• Hands-on SHAFE: www.hands-on-shafe.eu

• Building inclusive environments: www.big-game.eu

# 25. North Macedonia

Contributor: Daniel Pavlovski (University Mother Teresa – Skopje)

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

45 yesdelft.com

<sup>&</sup>lt;sup>42</sup> rvo.nl/subsidies-regelingen/stimuleringsregeling-ehealth-thuis-set

<sup>&</sup>lt;sup>43</sup> volwaardig-leven.nl/projecten/innovatie-impuls

<sup>44</sup> rvo.nl

<sup>46 &</sup>lt;a href="https://www.eur.nl/en/news/erasmus-university-tu-delft-and-erasmus-mc-intensify-collaboration">https://www.eur.nl/en/news/erasmus-university-tu-delft-and-erasmus-mc-intensify-collaboration</a>



- In the Republic of North Macedonia responsible for social protection off all citizens is The Ministry for Labor and Social Policy, Department for Social Protection (www.mtsp.gov.mk)
- Responsible for health protection is the Ministry for Health (<u>www.zdravstvo.gov.mk</u>)
- Mojtermin: electronic system for health services <u>www.mojtermin.mk</u>

# Relevant stakeholders and policy makers

	Local	Regional	National	
Health	Municipalities Institute of Public Health		Ministry of Health www.zdravstvo.gov.mk  Health Insurance Fund of Republic of North Macedonia www.fzo.gov.mk	
Social	Municipalities Cetres for Social Work		Ministry for labour and social policy www.mtsp.gov.mk	
Built environment	Municipalities Private housing enterprises		Ministry of Transport and Communications www.mcs.gov.mk  Spatial Planning Agency www.app.gov.mk	
Digitalisation	Municipalities Private ITC enterprises		Ministry of Information Society and Administration www.mioa.gov.mk	
Development	Municipalities			
Education			Universities and Universities of Applied Science and Arts	
Research			Universities and Universities of Applied Science and Arts	
Other: please specify				
Other: please specify				



#### (National, regional, local) funding opportunities on SHAFE

Fund for Innovations and Technology Development (<u>www.fitr.mk</u>)

# 26. Norway

Contributors: Anne Moen, Kristin S. Fulgerud, Mara Diaconu, Bettina Huesbø, Nina Jøransson

## Synopsis – SHAFE in Norway, survey in COST "NET4 Age Friendly"

This synopsis is prepared in response to several "NET4Age" WGs surveying the state of play in the participating countries. In general, we as participants from Norway can bring extensive, real world experiences on use of a plethora of tools and strategies to reach goals in line with the ambition pointed out by SHAFE - «Smart Health Ageing Friendly environments".

#### Polices - local, regional - national

With the seminal white paper, NOU 2011:11 "Innovasjon i Omsorg" [Innovation in Care] the Norwegian Government set the stage for development of policies and solutions to enable aging in place. Following this, widespread trials and adoption of different solutions has taken place. Furthermore, regionally and locally there are several initiatives for Health aging in Place (WHO and KS), emphasizing prevention, early intervention, safety, inclusive and responsible development. A national innovation program "Nasjonalt velferdsteknologi program» has been a flagship Initiative to stimulate implementation and wide adoption of digital tools. This national strategy is a collaboration between the Norwegian Association of Local and Regional Authorities (KS), the Directorate of eHealth and the Norwegian Directorate of Health. The purpose is to contribute to more municipalities will apply welfare technologies to improve public services for older people living at home or in institutions. About 75% of the around 360 municipalities have participated in several projects testing various technologies, gaining experience and systematic knowledge. From 2020 the responsibility for development and management of national eHealth were transferred to the Norwegian Health Network, which is the provider of a national infrastructure for electric communication in the health sector.

At the national level, the program "Leve Hele Livet" (A full life - all your life — A Quality Reform for Older Persons) was launched to share Best Practices, and a campaign to reform and improve in areas of early intervention, prevention and cooperation. KS launched this April a national center to promote Age friendly communities has been launched Embedded in this effort is commitment to accessible and universally designed physical and digital environment. These policies are also incorporating The European accessibility act aims to improve the accessibility of digital products and services. This will benefit older people and people with disabilities, as well as citizens in general by making web-based products and services more user-friendly.

<sup>&</sup>lt;sup>47</sup> https://www.regjeringen.no/en/dokumenter/meld.-st.-15-20172018/id2599850/

<sup>&</sup>lt;sup>48</sup> https://www.ks.no/fagomrader/velferd/universell-utforming/good-examples-of-universal-design/



Norway has been selected by European Commission to be partner in the <u>New European Bauhaus</u> Initiative which aims at mobilizing all sectors of research, innovation and economy to take a leading role in shaping our climate-neutral, sustainable and inclusive futures, and to build a strong dialogue with science and technology. This partnership that has been signed with NTNU, the Faculty of Architecture and Design will have a great impact at national level as new policies and "tangible" experiences with human centred design will be put in place to bring people together in developing a future where all the actors of the society are implicated.

#### Types of tools and services

In the publicly funded primary care sector we see a several types of services and digital tools to ensure agefriendly and safe environments. We choose to categories this as

- 1) Physical environment optimization; in house (e.g., good contrast, overview, light) and outdoor (e.g., rails, good surface, access, accessibility) to ensure control and safety
- 2) Sensor based surveillance, which can be seen as "passive monitoring", including use of GPS, sensor enabled safe environment in the home ("stove watch", light), personal safety (fall)
- 3) Engagements tools, including video-based health consultations, user-generated data on purpose and priority specific areas, to stimulate active contributions for prevention, early intervention or rehabilitation, empowerment of citizen to take care of Its own health
- 4) Environmental resources for older people in nursing homes, in particular for PwD, and technologies for entertainment or therapeutic purposes have been developed. The tools can recall memories combined with physical activity, residents can ride a fixed, adapted bike with hand or foot pedal while watching the screen displaying a chosen, well-known bike ride. Special sensorial rooms<sup>49</sup> have been created in care homes in Norway, e.g., Odda and Ullensvang municipality through the Sense-Garden<sup>50</sup> project, financed by AAL 2016. Others prefer interaction with a social robotic pet, such as the seal robot Paro, for mental, physical or social stimulation. Paro could be used individually or in group activity, and the activity is based on human-animal-interaction. In other locations, the Pepper robot has been used in care homes to stimulate people. Other technology used both in care homes and at home to keep elderly engaged with the families in easy to use and visual way is "Komp"<sup>51</sup>.
- 5) Support for informal caregivers, tools for targeted information, sharing and preparing for altered roles, e.g., demonstration of tools and service Almas Hus<sup>52</sup>, AAL projects like CarerSupport<sup>53</sup>, SUCCESS<sup>54</sup>

#### **Stakeholders**

Across the country, the full range of stakeholders are involved. This is ranging from the Citizens themselves, Health care professionals and Health care Providers, especially in the Municipalities, to regional and national authorities and regulators, and industry represented by start-up, SMEs and other organizations that are seeking to develop solution and innovations. National and regional government bodies, e.g., Research

 $<sup>^{49}\,</sup>https://www.nrk.no/vestland/gamle-minne-gir\_thor\_betre-humor\_-rolegare-netter\_og-mindre-behov-for-medisinar-1.14781403$ 

<sup>50</sup> https://sense-garden.eu/

<sup>51</sup> https://www.noisolation.com/global/komp/

 $<sup>^{52}\</sup> https://www.oslo.kommune.no/etater-foretak-og-ombud/helse etaten/senter-for-fagutvikling-og-forskning/almas-hus/\#grefull for the state of t$ 

<sup>53</sup> http://www.aal-europe.eu/projects/carersupport/

<sup>54</sup> http://www.aal-europe.eu/projects/success/



Council of Norway, Innovation Norway are financially supporting health technology industry and organizations for Research and Innovation in efforts to create better environments for the population.

### **Ecosystems involved**

Across the country, several types of ecosystems are involved. There are several regional / county-based "Centre for Development of Institutional and Home Care Services" 55 with priority areas, dedicated to service development and quality improvements, to follow up on the "A full life - all your life" initiative and engage in the effort for age-friendly communities, as mentioned above. There are also significant technology development and transfer clusters, e.g., Norway health tech<sup>56</sup>, Norwegian Smart Care Cluster<sup>57</sup>, HelseInn<sup>58</sup> dedicated to share and disseminate funding- and collaboration opportunities. Another important type of ecosystems starts from universities and educational institutions" Science centers for health and technology ("Viten senter") that collaborate with regional partners to create awareness, novel projects and educational opportunities.

#### **Funding opportunities**

At national and regional level there are programs for R&D projects, and special programs to stimulate implementation. There are municipal programs (Age-friendly Communities), focused national program for AAL and welfare technology adoption (Nasjonalt velferdsteknologiprogram). There is also broad participation in EU-programs, including AAL, Horizon2020, Horizon Europe and Joint Programs incl. COST. For the individual citizen there are needs-based offerings from the municipality, like GPS, sensors for a variety of environmental and personal safety surveillance, in the interest of supporting and enabling safe independent living. Citizens can procure tools themselves.

#### Sustainability strategies

Sustainability of solutions and opportunities to ensure that promising project results are realized as welldiffused products and services remains a challenge with many unresolved issues. Sustainability strategies that have been most efficient so far are supported and funded by national and regional programs. This is the case for physical environments, sensor-based passive monitoring and in creating use of video-based consultations. To stimulate future uptake, tools and started programs to improve digital (health) literacy and initiatives to increase knowledge and awareness about universal design and accessibility, contributes to cross fertilization between developers of assistive technology and mainstream technology in the interest of agefriendly communities and empowered citizens in all ages.

Going forward, it is important to address, acknowledge and overcome potential limitations and barriers, that despite progress and development, have to be included by future projects:

as reported in a recent systematic literature review, considerable number of wearable and sensing technology for digital phenotyping in people with dementia (PwD) are available, but most devices are not yet Implemented and tested in this group of people or patients with chronic complex conditions (CCC)<sup>59</sup>.

<sup>55</sup> https://www.utviklingssenter.no/topmeny/english

<sup>56</sup> https://www.norwayhealthtech.com/

<sup>57</sup> https://www.smartcarecluster.no/english/about-us

<sup>58</sup> https://helseinn.net/english/

<sup>&</sup>lt;sup>59</sup> Husebo BS, Heintz HL, Berge LI, Owoyemi P, Rahman AT, Vahia IV. Sensing Technology to Monitor Behavioral and Psychological Symptoms and to Assess Treatment Response in People With Dementia. A Systematic Review. Front Pharmacol. 2019;10:1699



- The PAN.DEM study, nested in the stepped-wedge randomized controlled multicomponent intervention LIVE@Home.Path trial (financed by RCN) for home-dwelling PwD shows, found that more than 70% of PwD in the study have access to technology at home<sup>60</sup>,<sup>61</sup>. However, this is mainly traditional equipment such as stove guard and safety button. Solutions such as GPS, automatic light, fall detectors are not yet available for all PwD living at home or in nursing home, as municipalities can be hesitant and home care services lack motivation. The interest in technology at home by informal caregivers has increased with only 17% during the COVID-19 pandemic, signalizing hesitation and reluctance in the elderly generation. This highlights the needs for early, individual education for the patients and their Informal and formal caregivers. Digital health literacy could be an priority, also for SHAFE.
- There is a potential to collect data from various instruments; but interoperability standards and required API functionality is often not established and tested. There are needs for platforms to collect data/data link for artificial intelligence. The European guidelines for GDPR and future MDR must be taken into account, especially with the growing group of people with CCC and dementia.

The collaboration between municipalities, developers and research environments have to be strengthened, because there are no standardized, innovative and validated "packages" at hand for wider deployment, and their effect on cost-benefit and relative burden must be investigated.

# 27. Poland

Contributors: Andrzej KLIMCZUK, Agnieszka CIEŚLA

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

The Polish government creates framework for implementing SHAFE measures, although SHAFE as a concept does not exist in Poland yet. Several different policies are being implemented to face the country with the challenges of demographic change and digitalisation:

- Polityka społeczna wobec osób starszych 2030. Bezpieczeństwo Uczestnictwo Solidarność (Social policy towards older people 2030. Security Participation Solidarity): http://prawo.sejm.gov.pl/isap.nsf/download.xsp/WMP20180001169/O/M20181169.pdf
- Polityka dla rozwoju sztucznej inteligencji w Polsce od roku 2020 (Policy for the development of artificial intelligence in Poland from 2020): <a href="https://monitorpolski.gov.pl/MP/2021/23">https://monitorpolski.gov.pl/MP/2021/23</a>

In Poland municipalities are responsible for housing, social care, health care provision, education, and citizens participation. They are important actor in implementing SHAFE measures and might very interested in learning good practices. Additionally, in the last years the municipal tasks were subsequently being extended but sufficient funding was not added. For these reasons cost-saving solutions are being searched for and many municipalities are opened to innovative solutions in the fields they are responsible for.

60

<sup>&</sup>lt;sup>60</sup> Husebo BS, Allore H, Achterberg W, Angeles RC, Ballard C, Bruvik FK, et al. LIVE@Home.Path-innovating the clinical pathway for home-dwelling people with dementia and their caregivers: study protocol for a mixed-method, stepped-wedge, randomized controlled trial. Trials. 2020;21(1):510.

<sup>&</sup>lt;sup>61</sup> Gedde MH, Husebo BS, Erdal A, Puaschitz NG, Vislapuu M, Angeles RC, et al. Access to and interest in assistive technology for home-dwelling people with dementia during the COVID-19 pandemic (PAN.DEM). Int Rev Psychiatry. 2021:1-8.



# Relevant stakeholders and policy makers

	Local	Regional	National
Health	Local government units, local NGOs	Voivod's offices	Ministry of Health (Ministerstwo Zdrowia), National Health Fund (Narodowy Fundusz Zdrowia)
Social	Local government units, social welfare centres, local NGOs	Marshal's offices, Regional Centers of Social Policy	Ministry of Family and Social Policy (Ministerstwo Rodziny i Polityki Społecznej)
Built environment	Local government units, local developers and construction companies  Social housing associations	Marshal's offices Voivod's offices	Ministry of Economic Development, Labour and Technology (Ministerstwo Rozwoju, Pracy i Technologii)
Digitalisation	Local government units, IT companies and start-ups	Marshal's offices	Ministry of Economic Development, Labour and Technology (Ministerstwo Rozwoju, Pracy i Technologii)
Development	Local government units, local NGOs	Marshal's offices	Ministry of Economic Development, Labour and Technology (Ministerstwo Rozwoju, Pracy i Technologii)
Education	Local government units, local NGOs, schools	Marshal's offices Voivod's offices	Ministerstwo Edukacji i Nauki (Ministry of Education and Science)
Research	universities, local technology transfer centres	Industrial and economic zones, Universities	Ministerstwo Edukacji i Nauki (Ministry of Education and Science)
Other: please specify			
Other: please specify			



- 1. Krajowy Instytut Gospodarki Senioralnej (NGO: National Institute of Silver Economy) <a href="https://kigs.org.pl/partnerzy/">https://kigs.org.pl/partnerzy/</a>
- 2. Polskie Towarzystwo Gerontologiczne (NGO: Polish Society of Gerontology) <a href="https://gerontologia.org.pl/en/">https://gerontologia.org.pl/en/</a> partners: mainly scientific organizations, universities, medical companies
- 3. Instytu Polityki Senioralnej (NGO Institut of Ageing Policy) <u>www.seniorhub.pl</u>

Senior Hub - Institute of Ageing Policy is the first research and advisory unit in Poland dealing with topics in the area of ageing policy conducted at the national, regional and local level. The institute is an innovative think-tank cooperating with dozens of researchers from various fields. It is the only research institution in Poland not associated with a public research unit, capable of co-creating research partnerships in most areas. We work constructively with the innovative sector, business sector, central public administration units, local government units, non-governmental organizations and mass media. We also run the only in Europe Central expert journal of popular science devoted to the aging of the society in the systemic dimension "Polityka Senioralna".

#### (National, regional, local) funding opportunities on SHAFE

At the national level, the Polish government introduced following programmes:

- Program wieloletni "Senior+" na lata 2021-2025 (Multiannual program "Senior +" for the years 2021-2025) http://senior.gov.pl/program senior plus
- Program wieloletni na rzecz Osób Starszych "Aktywni+" na lata 2021–2025 (Multiannual program for older people "Active +" for the years 2021–2025) <a href="http://senior.gov.pl/program\_asos">http://senior.gov.pl/program\_asos</a>
  - This program supports bottom-up activities aiming at keeping older adults healthy, independent and active. Funds (up to 50 000 Euro) are given to NGOs, Third Age Universities, companies which apply in the competition.
- Program Dostępność Plus 2018-2025 (Program Accessibility Plus 2018-2025)
   <a href="https://www.funduszeeuropejskie.gov.pl/strony/o-funduszach/fundusze-europejskie-bez-barier/dostepnosc-plus/">https://www.funduszeeuropejskie.gov.pl/strony/o-funduszach/fundusze-europejskie-bez-barier/dostepnosc-plus/</a>
  - This program supports retrofitting measures in public buildings and housing. However, also other areas are supported by the program such as: transport, education, healthcare, digitalisation, services, competitiveness, coordination.
- Program Polska Cyfrowa (Program Digital Poland) <a href="https://www.polskacyfrowa.gov.pl/">https://www.polskacyfrowa.gov.pl/</a>
  - The program finances projects which can be ascribed to three groups. The first are those aimed at developing broadband infrastructure enabling access to high-speed Internet. The direct recipients of these projects are residents of areas where, to date, access to the network has been limited or non-existent. The second group are projects that increase the pool of public services available by electronic means. The whole society benefits from these projects. The third group are projects encouraging people to use the Internet and increasing their digital competences. Mainly NGOs in partnership with local governments apply for funding for this type of activities.
- Start in Poland



Start in Poland is the largest start-up program in Central and Eastern Europe. It supports young, innovative companies locating their business in Poland at every stage of their development, starting from the incubation and acceleration phase, through development and international expansion. This program brings together the most important start-up support instruments in Poland.

Many municipalities see the growing need to support start-up companies by providing them workspace or trainings. In many of them dedicated services to help develop innovative business ideas were created (e.g., Centrum Obsługi Przedsiębiorczości in Skarżysko Kamienna or Centrum Przedsiębiorczości Warszawa Twój Start up).

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

Learning and training offers on SHAFE:

Hands-on SHAFE: <u>www.hands-on-shafe.eu</u>

Building inclusive environments: <u>www.big-game.eu</u>

# 28. Portugal

Contributors: Silvina Santana and Pedro Roseiro

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

Policy

The Portuguese government mainly defines the boundaries for policy implementation at national, regional and local level and a number of high-level initiatives have been designed, approved and launched in the last few years.

The Sustainable Cities Strategy 2020 (Estratégia Cidades Sustentáveis) was published by the Ministry of Environment, Territorial Planning and Energy (Ministério do Ambiente, Ordenamento do Território e Energia) in 2015 (Cidades Sustentáveis 2020 (dgterritorio.gov.pt). Also in 2015, The National Housing Strategy (Estratégia Nacional para a Habitação) was approved by resolution of the Council of Ministers.

The National Strategy for Active Healthy Ageing (Estratégia Nacional para o Envelhecimento Activo e Saudável) 2017-2025 was published in 2016 (Despacho n.º12427/2016) after an inter-ministries proposal. It addresses the promotion of healthy lifestyles, health prevention, management of comorbidity processes, lifelong education and training, creating participative and integrative environments, safety in the built environment, fighting exclusion, isolation and violence toward elderly people. The National Program for the Health of Elderly People (Programa Nacional para a Saúde das Pessoas Idosas) had been launched by the General Directorate of Health (Direcção Geral da Saúde) in 2004.

The National Strategy for Active Mobility 2020 – 2030 (Estratégia Nacional para a Mobilidade Activa 2020 - 2030) was approved by the Council of Ministers in 2019 (https://www.portugal.gov.pt/pt/gc21/governo/comunicado-de-conselho-de-ministros?i=286).

The Action Plan for the Digital Transition (Plano de Ação para a Transição Digital) was approved by resolution of the Council of Ministers in 2020 (<a href="https://dre.pt/application/conteudo/132133788">https://dre.pt/application/conteudo/132133788</a>). The pillars of the plan



are the digital training and inclusion of citizens, the digital transformation of companies and the digitalization of the State, addressed in twelve measures: Digitalization Program for Schools, Intensive and specialized training program in the digital area of 3,000 professionals — UpSkill, Digital Inclusion Program for 1 million adults, Social tariff for access to Internet services, e-Residency Program, Promotion of Technological Free Zones through the creation of special regulatory regimes, Digital Training Program for SMEs in the interior of Portugal, Digital Innovation Hubs for Entrepreneurship, Digitization of the 25 public services most used by citizens and companies, Increase in the offer and translation of digital services of interest to internationalization in ePortugal, Cloud Strategy for Public Administration; Simplification of the contracting of information technology and communication services by the Public Administration.

The responsibility for health care is with the Ministry of Health, which coordinates and finances public health care provision, developing health policy and overseeing and evaluating its implementation and managing and regulating the National Health System (NHS). It is also responsible for the regulation, auditing and inspection of private health services providers. Technical expertise and support are provided by the High Commissariat for Health, the General Inspectorate of Health-related Activities, the General Directorate of Health, the Institute for Health Quality and the Central Administration of the Health System (Santana et al., 2014).

Municipalities and local and regional organisations have limited intervention to define policy and funding within the health care model. Regional health administrations are responsible for the regional implementation of national health policy objectives and coordinating all levels of health care, working in accordance with principles and directives issued in regional plans and by the Ministry of Health. Their main responsibilities are the development of strategic guidelines, coordination of all aspects of health care provision, supervision of management of primary health care and hospitals, establishment of agreements and protocols with private bodies, and liaison with government bodies, charity institutions (Misericórdias), other private non-profit-making bodies and municipal councils. Regional Health Administrations have been appointed responsible for the development of the National Network of Long-Term Integrated Care (Santana et al., 2014).

On the other hand, one of the main differences between Portugal and other Southern and Southwest European countries is the high degree of organisation and power of the non-profit sector through strong and powerful peak organisations that participate actively in policymaking defining the formal provision of social care, personal care and domestic aid. Local government involvement has been marginal and confined to the participation in a few specific projects (Santana et al., 2014).

The responsibility for home care is split between the Ministry of Health (home nursing) and the Minister of Employment, Solidarity and Social Security (personal care and home help). For several years, there were official documents defining, discussing and regulating SAD (Serviço de Apoio Domiciliário – Home Care Service) and defining the roles and criteria for users/users' family co-payments of the services provided. More recently, the Decree Law that creates the National Network of Long-Term Integrated Care (Rede Nacional de Cuidados Continuados Integrados RNCCI)) assumes home health care as part of a set of health and/or social sequential interventions and defines the "equipas domiciliárias" (home care teams).

Besides that, several initiatives and programs are worthy of mention, such as those related to social housing, independent living, dementia prevention, accessibility, fighting isolation, urbanism and rehabilitation, sports and physical activity promotion, accessible tourism, mobility in cities.

Legislation



- Lei de Bases da Saúde, Law nº 48/90.
- The National Housing Strategy (Estratégia Nacional para a Habitação, approved by resolution n.º 48/2015.
- Nacional Network of Long-Term Integrated Care, created by Law n° 101/2006
- Regulamento Geral das Edificações Urbanas
- The Digital Transition Action Plan (Plano de Ação para a Transição Digital), approved by resolution no. 30/2020 of the Council of Ministers.

#### Funding

Many national funding programmes for municipalities, healthcare organisations, security forces, housing organisations, informal caregivers and general citizens have been designed and implemented over the years, regarding fighting isolation and safety promotion, prevention in health, homecare implementation, eHealth implementation, rehabilitation and urban revitalization, ICT literacy, including those linked with Cohesion and Structural Funds implementation (like QREN and Portugal 2020).

Within the legal framework of Decree-Law 329-C/2000 of 22 December, the RECRIA Programme aims to finance the execution of conservation and improvement works that allow for the recovery of dwellings and degraded properties, through the granting of incentives by the State and the municipalities.

The Support Regime for Housing Recovery in Ancient Urban Areas (REHABITA), established by Decree-Law no. 105/96, of 31 July, consists of an extension of the RECRIA Programme and aims to financially support municipal councils in the recovery of old urban areas, being granted through the signing of collaboration agreements between the IHRU, the Municipal Councils and other authorized credit institutions.

IFRRU 2020 (Financial Instrument for Rehabilitation and Urban Revitalization) mobilizes the appropriations approved by the Regional Operational Programmes (ROPs) of the Mainland and the Autonomous Regions, and the thematic programme Sustainability and Resource Efficiency Operational Programme (PO SEUR) of PORTUGAL 2020, with the objectives of revitalizing the cities, supporting the physical revitalization of the space dedicated to disadvantaged communities and supporting energy efficiency in housing.

In each region, elders and dependent persons receive benefits in kind (personal care and home help) and cash from Social Security (Segurança Social), at the council (concelho) level. However, service implementation is mostly made via IPSS and Charities (Misericórdias), most of which have the status of IPSS. As family support has been decreasing, the State considers home care provided by non-profit social solidarity institutions a strategic part of the care system.

### Relevant stakeholders and policy makers

	Local	Regional	National
Health	. Health and social care	. Hospitals	. Ministry of Health
	providers	. IPSS (Instituições	(Ministério da Saúde)
	. Hospitals	Particulares de	. General Directorate
	. IPSS (Instituições	Solidariedade Social) and	of Health (Direcção
	Particulares de	Misericórdias	Geral da Saúde)
	Solidariedade Social)		
	and Misericórdias		



	Homo caro providors	. RNCCI (Rede Nacional	. National Council for
	. Home care providers, public and private,	de Cuidados Integrados	
	' '		Volunteering
	formal and informal	Continuados)	Promotion
	. Public health		. Portuguese Volunteer
	administration		Confederation (CPV)
	. RNCCI (Rede Nacional		. Insurance companies
	de Cuidados		. Rede Portuguesa de
	Integrados		Municípios Saudáveis
	Continuados)		. Mutualidades (e.g.
			Montepio Geral)
			. Serviços Partilhados
			do Ministério da Saúde
			(SPMS)
			. Autoridade Nacional
			do Medicamento e
			Produtos de Saúde, I.P.
			(INFARMED)
			. Cruz Vermelha Portuguesa
Social	. Municipality and its	. RNCCI (Rede Nacional	. Ministro do Trabalho,
Social	organisations	de Cuidados Integrados	Solidariedade e
	. IPSS (Instituto	Continuados)	Segurança Social
	Particular de	Continuadosj	. National Council for
	Solidariedade Social)		
	,		Volunteering
	and Misericórdias		Promotion
	. Home care providers,		. Portuguese Volunteer
	public and private,		Confederation (CPV)
	formal and informal		. União das IPSS
	. RNCCI (Rede Nacional		. União das
	de Cuidados		Misericórdias
	Integrados		. União das
	Continuados)		Mutualidades
			Portuguesas
			. Confederação
			Nacional das
			Institucionais Sociais
			. Cáritas Portuguesa
			. Fundação Altice
			. Fundação Vodafone
Built environment and	. Municipalities	. Regional	. Ministro do
mobility	. Social housing	Authorities/Coordination	Planeamento
			NATION AND AND ADDRESS.
1	associations and	and Regional	. Ministro das
	associations and cooperatives	Development Regional	Infraestruturas e da



	Duite haveing	d. Cd	N Aireite de la la
	. Private housing	de Coordenação e	. Ministério do
	enterprises and	Desenvolvimento	Ambiente e
	developers	Regional - CCDR)	Ordenamento do
	. Providers of mobility	. Intermunicipal	Território
	solutions	Communities	. Secretaria de Estado
	. City planning/urban	(Comunidades	para a Cidadania e a
	planning	Intermuniciapis – CIM)	Igualdade
		. Metropolitan Areas	. Instituto da
		(Áreas Metropolitanas -	Habitação e da
		AM)	Reabilitação Urbana
Digitalisation	. Municipalities		. Ministério da
			Economia e Transição
			Digital
			. Secretaria de Estado
			da Transição Digital
			. Estrutura de Missão
			Portugal Digital
			. Ministério da
			Modernização do
			Estado e da
			Administração Pública
			. Secretário de Estado
			da Inovação e da
			Modernização
			Administrativa
			. FCCN (Unidade de
			Computação Científica
			Nacional)
			. TICE.PT
			. Health Cluster
			Portugal
			. Telecom and cable
			providers
Development	. Parish Councils	. Regional Authorities/	. Rede de Cidades e
	. Municipalities	Coordination and	Vilas de Excelência
	. Universities	Regional Development	. Ministério do
	. Polytechnic institutes	Commissions (Comissões	Ambiente e
	. Local associations of	de Coordenação e	Ordenamento do
	citizens, companies	Desenvolvimento	Território
	and volunteers	Regional - CCDR)	. Ministério da Coesão
		. Intermunicipal	Territorial
		Communities	. Ministério do
		(Comunidades	Planeamento
		Intermuniciapis – CIM)	
	1	' '	<u>i</u>



		. Metropolitan Areas	
		(Áreas Metropolitanas -	
		AM)	
Education	. Schools	. Schools	. Ministry of Education
	. Universities	. Universities	(Ministério da
	. Polytechnique	. Polytechnique institutes	Educação)
	institutes		. Ministry of Science,
			Technology and Higher
			Education (Ministério
			da Ciência, Tecnologia
			e Ensino Superior)
			. Universities
			. Polytechnique
			institutes
			. Fundação José Neves
			. (Ministério do
			Trabalho,
			Solidariedade e
			Segurança Social)
			. Instituto do Emprego
			e Formação
			Profissional (IEFP)
			, ,
Research	Universities	Universities	. Ministry of Science,
	(fundamental and	(fundamental and	Technology and Higher
	applied sciences)	applied sciences)	Education (Ministério
	,	,	da Ciência, Tecnologia
			e Ensino Superior)
			. FCT (Fundação para a
			Ciência e a Tecnologia)
			. FCCN (Unidade de
			Computação Científica
			Nacional)
			. Fundação Calouste
			Gulbenkian
			. Fundação
			Champalimaud
Citizens	Citizens at local level		National associations
CICIZCIIS	Citizens at local level		of citizens
Pusinoss			01 010120113
Business			

Rede Portuguesa de Municípios Saudáveis



- Associação Nacional de Municípios Portugueses/RENER Living Lab
- Associação Nacional de Municípios Portugueses ANMP
- Associação Portuguesa de Promoção do Envelhecimento Ativo e Saudável
- Associação para o Desenvolvimento das Comunidades Locais
- Associação de Unidades de Cuidados na Comunidade
- o Conselho Nacional de Ética para as Ciências da Vida
- ReaViva Rede Portuguesa Ambientes Saudáveis, Inteligentes e Amigáveis
- TICE.PT
- Health Cluster Portugal
- Health Data Fórum
- o Rede de Cidades e Vilas de Excelência
- Associação Amigos da Grande Idade
- Associação Rede de Universidades da Terceira Idade (RUTIS)
- ANAI Associação Nacional de Apoio ao Idoso
- Digital Health Portugal
- Healthy Ageing@LAB
- Colabor
- 4LifeLab
- o Built CoLab
- Cluster Habitat Sustentável
- o CEIIA/S2UL
- o ProChild CoLab
- Value for Health CoLab
- Cluster Smart Cities Portugal
- o PORTO4AGEING
- Ageing@Coimbra
- o GRACE Grupo de Reflexão e Apoio à Cidadania Empresarial
- o ZERO Associação Sistema Terrestre Sustentável
- Confederação Portuguesa das Coletividades de Cultura, Recreio e Desporto
- Cruz Vermelha Portuguesa
- Cáritas Diocesana de Coimbra
- o Associação de Defesa do Consumidor DECO
- Sociedade Portuguesa de Geriatria e Gerontologia
- Associação Portuguesa de Nutrição
- Associação Portuguesa de Psicogerontologia
- ANGES Associação Nacional de Gerontologia Social
- Associação Portuguesa dos Terapeutas Ocupacionais
- o Associação Nacional de Unidades de Saúde Familiar
- Associação Portuguesa de Fisioterapeutas
- o Sociedade Portuguesa de Terapia Familiar
- Associação dos Profissionais de Serviço Social
- Ordem dos Psicólogos Portugueses
- o Ordem dos Enfermeiros
- Sociedade Portuguesa de Enfermagem de Saúde Mental



- Federação Portuguesa das Associações das Famílias de Pessoas com Experiência de Doença Mental
- Ordem dos Nutricionistas
- Ordem dos Farmacêuticos
- Associação Portuguesa de Enfermeiros de Reabilitação

# (National, regional, local) funding opportunities on SHAFE

The NHS is mainly funded by general taxation. Health subsystems covers certain professions that are funded on a voluntary basis by employees' contributions and/or state budget. A great part of total health expenditure funding comes from government sources, via direct and indirect taxation. The remaining part corresponds to private expenditure, including private voluntary health insurance and out-of-pocket payments.

The public component of the Social Security System covers solidarity, family and social assistance. The latter provides social support to the most vulnerable groups, as disabled citizens and older adults, and is mostly funded by taxation.

The Portugal Social Innovation, a public initiative aimed at promoting social innovation and boosting the social investment market in Portugal, mobilizes around EUR 150 million from the European Social Fund under the Portugal 2020 Partnership Agreement. Portugal is the only Member State that has earmarked part of their EU funds until 2020 to experiment with new financing instruments aimed at fostering innovation and social investment.

Financing options for ICT research and development and smart cities have been based on incentive systems or structural funds with a European or national basis and private financing. National opportunities are available from Portugal 2020, the partnership agreement adopted between Portugal and the European Commission, and the Environmental Fund, even if many times with a focus on decarbonization or adaptation to climate change, and the Urban Innovative Actions (UIA), which have supported very distinct projects.

The Foundation for Science and Technology (Fundação para a Ciência e Tecnologia - FCT) is a major funder of science and research in all areas encompassed by the SHAFE concept. Portuguese universities, research centres and laboratories, companies and national and regional government are also using Horizon 2020, which has support lines specific to many SHAFE related areas including smart cities, such as the "Lighthouse Projects" program, AAL Programme, Interreg Atlantic Area Programme, Interreg Europe, Interreg Sudoe, Erasmus+, Espon, Urbact.

Private initiatives from a few related institutions are available, such as Fidelidade Social Award; FMAM Award; Fundação Montepio – FACES; Mission Continente (Sonae); Prémio Seniores, BPI e Fundação "la Caixa".

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

BM Cooperation platform between agents participating to the development of smart cities

CoLab S2L, <a href="https://www.ceiia.com/colab-s2l">https://www.ceiia.com/colab-s2l</a>. CoLab S2L is a project funded for the period 2019-2023 with a budget of 7 million euros. Objective: to accelerate the transformation of cities into smart and sustainable urban ecosystems, promoting liveability. Promoter: CEiiA. Partners: Partner



organisations are universities, R&D centres, companies, start-ups, municipalities, social and cultural associations, and the civil society.

- o CEiiA (Promoter)
- o Universidade do Minho
- o Instituto Superior Técnico
- Universidade de Lisboa
- Efacec Electric Mobility, SA
- Associação Fraunhofer Research Portugal
- NOS Comunicações, SA
- Vieira de Almeida & Associados Soc. Advogados, SP, RL
- o Deloitte Consultores, SA
- o Municipality of Lisboa
- o Frente Atlântica (Municipality of Porto, Matosinhos and Vila Nova de Gaia)
- Cluster Smart Cities Portugal: <a href="www.iapmei.pt/Paginas/Cluster-Smart-Cities-Portugal.aspx">www.iapmei.pt/Paginas/Cluster-Smart-Cities-Portugal.aspx</a>. Promoter: IAPMEI. Participants: Mostly directed to companies

BM Learning and training offers on SHAFE. Hands-on SHAFE: www.hands-on-shafe.eu

BM Dissemination and promotion of urban projects and solutions toward sustainable, citizen-centered cities

• Smart Cities, <a href="https://smart-cities.pt/">https://smart-cities.pt/</a>. Smart Cities is an online review. Areas: Architecture and Urbanism, Civic participation and Communities, Education, Energy, Entrepreneurship, Environment, Health, ICT, Innovation, Mobility, Social care, Social inclusion, Social innovation, Tourism, Urban rehabilitation and regeneration, Waste, Water.

#### References

Silvina Santana, Nina Szczygiel, Patricia Redondo. Integration of care systems in Portugal: anatomy of recent reforms, *IJIC – International Journal of Integrated Care*, Volume 14, 24 July 2014.

Contributors 2 Portugal: Diana Guardado, Rosa Silva e João Apóstolo

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

#### **REGIONAL PUBLIC POLICIES**

RIS 3 – Estratégia de Investigação e Inovação para uma Especialização Inteligente [Research and Innovation Strategies for Smart Specialization (RIS3)]

The definition of Research and Innovation Strategies for Smart Specialization (RIS3) is a collective and continuous construction process that was made mandatory by the European Commission, within the scope of the Cohesion Policy for 2014-2020, constituting an identification, in each region, the priority areas for allocating community funds to Research and Innovation.

Some links:



• North Region:

https://norte2020.pt/sites/default/files/public/uploads/documentos/norte2020 ris3.pdf

- Centro Region: <a href="http://ris3.ccdrc.pt/">http://ris3.ccdrc.pt/</a>
- Lisbon Region: https://lisboa.portugal2020.pt/np4/19.html
- **Alentejo Region:** <a href="http://www.alentejo.portugal2020.pt/index.php/documentacao/category/10-estrategia-regional-de-especializacao-inteligente">http://www.alentejo.portugal2020.pt/index.php/documentacao/category/10-estrategia-regional-de-especializacao-inteligente</a>
- Algarve Region: https://algarve2020.pt/info/ris3

#### **NATIONAL PUBLIC POLICIES:**

- Estratégia Nacional Para o Envelhecimento Ativo e Saudável 2017-2025 [National Strategy For Active And Healthy Aging 2017-2025]
- Proposta do Grupo de Trabalho Interministerial (Despacho n.º12427/2016) -
- Proposal by the Interministerial Working Group]
- Link: <a href="https://www.sns.gov.pt/wp-content/uploads/2017/07/ENEAS.pdf">https://www.sns.gov.pt/wp-content/uploads/2017/07/ENEAS.pdf</a>

# Estratégia Nacional para a Inclusão e Literacia Digitais [National Strategy for Digital Inclusion and Literacy]

With this document for a National Strategy for Digital Inclusion and Literacy (ENILD) (2015 - 2020), Fundação para a Ciência e Tecnologia (FCT), as responsible for public policies in the area of the Information Society in Portugal, invests in digital inclusion and literacy in a conscious and demanding. ENILD highlights an exhaustive diagnosis of a Portugal that, on the one hand, is advanced in terms of the infrastructure to support a digital society and the availability of digital public services, but, on the other hand, presents low levels of use of these same services and infrastructure. https://www.fct.pt/dsi/inclusaoacessibilidadeliteraciadigitais/enild.phtml.pt

Gerações mais saúdaveis - Politicas públicas de promoção da saúde das crianças e jovens [Healthier generations - Public policies to promote the health of children and young people] - "The report HEALTHY GENERATIONS focuses on public policies for the protection and promotion of the health of children and young people from 0 to 18 years old. It aims to identify the policies that already exist in this area and verify which health determinants still need development and that may constitute risks accumulated over the life of this age group. and that have a great social impact: childhood obesity, oral health problems, mental health problems, accidents and respiratory diseases related to the environment. Policies for the protection of parenthood, surveillance and promotion of the health of children and young people, social support for families and protection of the environment were identified. In addition to the rights enshrined in the Constitution of the Portuguese Republic, policies at national level from various social sectors and health programs at national level that advocate the health surveillance of children and young people and support child development in situations of need for inclusion were included. special health. This report presents some examples of the application of policies at the local level. Emphasis is placed on the important role of municipalities in the development and implementation of projects specifically aimed at children and young people." ( pg 1) - <a href="http://www.cns.min-saude.pt/wp-content/uploads/2018/12/GERACOES-MAIS-">http://www.cns.min-saude.pt/wp-content/uploads/2018/12/GERACOES-MAIS-</a> SAUDAVEIS.pdf

## Relevant stakeholders and policy makers

Local	Regional	National



Health		
	Lúcio Meneses de Almeida	Marta Temido
	João Apostolo	Graça Freitas
	Eduardo Sá	
	Alexandre Lourenço	
Social	Carina Dantas	Ana Mendes Godinho
	Manuel Antunes	
Built environment	António José Barreto Tadeu	João Pedro Matos
		Fernandes
Digitalisation	António Lindo da Cunha	Pedro Siza Vieira
Development	Alexandra Rodrigues	Miguel Poiares
		Maduro
Education	José Vitor Pedroso	Tiago Brandão
		Rodrigues
Research	João Malva	Manuel Heitor
	João Apóstolo	

Rede Portuguesa Ambientes Saudáveis, inteligentes e Amigáveis (SHAFE) – "The Portuguese Network for Healthy, Smart and Friendly Environments brings together a wide range of Portuguese organizations committed to promoting a joint agenda for the implementation of Inclusive Environments for All Ages, with a particular focus on the areas of Health, Social Support, Information Technologies, Communication and Electronics and Infrastructure. The Network favors participation in a quadruple helix, actively promoting collaboration between research / academia, public authorities, companies and civil society / citizens, with the aim of addressing and finding common solutions to national challenges in this theme." <a href="https://caritascoimbra.pt/project/rede-portuguesa-ambientes-saudaveis/">https://caritascoimbra.pt/project/rede-portuguesa-ambientes-saudaveis/</a>

#### EIP on AHA National Reference Sites for active and Healthy Ageing - Ageing@Coimbra

Ageing@Coimbra is a consortium which aims to enhance the role of the elderly in society and the application of best practices that benefit their general well-being and active and healthy aging. Its main goal is to improve the lives of senior citizens in the Centro Region of Portugal through better social services and healthcare, as well as the creation of new innovative products and services and the development of new diagnostic and therapeutic tools. <a href="https://ageingcoimbra.pt/">https://ageingcoimbra.pt/</a>

But in Portugal there are more reference sites, like:

- Ageing Thinking Amadora -A.T.
- Ageing@Minho -University of Minho
- ALICE –Ageing Longer Integrated Care Environment
- Lisbon Ageing Well
- Lisbon AHA
- Porto4Ageing Reference Site, University of Porto
- Region of Algarve Reference Site



https://ec.europa.eu/digital-single-market/en/reference-sites-european-innovation-partnership-active-and-healthy-ageing

The Municipality of Covilhã in the TOGETHER project has developed procedures for implementation of indicators of well being and to enhance citizen's participation in it. <a href="https://urbact.eu/sites/default/files/import/Projects/Together/outputs media/TOGETHER LA">https://urbact.eu/sites/default/files/import/Projects/Together/outputs media/TOGETHER LA</a>
 P Covilh%C3%83%C2%A3.pdf

None of the contributors belong to the following network, but regarding the importance, we would like to list it:

**Rede Portuguesa de Municípios Saudáveis** [ Portuguese Network of Healthy Municipalities] - In Portugal, this Network, integrated in 2001 the European Network. It was created based on an association of municipalities that aims to support the dissemination, implementation and development of the Healthy Cities Project in the municipalities that intend to make health promotion a priority on the agenda of policy makers. It currently integrates 61 healthy municipalities in its network and aims to facilitate the exchange of knowledge and experiences with other cities, the strategic planning of integrated actions, the definition and construction of tools to support assessment and monitoring and institutional, national and international cooperation, on improving health and promoting quality of life.

http://redemunicipiossaudaveis.com/index.php/pt

#### (National, regional, local) funding opportunities on SHAFE

The following organizations have several funding programmes in the SHAFE thematic:

#### **REGIONAL AUTHORITIES**

**CIM RC** – Comunidade intermunicipal [ Inter-municipal community ] which has in its work agenda areas of activity such as the environment, sustainability, civil protection, culture, education, entrepreneurship and modernity. <a href="https://www.cim-regiaodecoimbra.pt/">https://www.cim-regiaodecoimbra.pt/</a>

Comissão de Coordenação e Desenvolvimento Regional do Centro (CCDRC) - [Regional Coordination and Development Commission Center] — "The Center's Regional Coordination and Development Commission (CCDRC), a deconcentrated body of the Ministry of Territorial Cohesion, endowed with financial and administrative autonomy, has the mission of: Execute environmental, spatial and city planning and regional development policies at the level of NUT II Centro; Promote the coordinated performance of the decentralized services at the regional level and provide technical support to local authorities and their associations." <a href="https://eportugal.gov.pt/entidades/comissao-de-coordenacao-e-desenvolvimento-regional-do-centro">https://eportugal.gov.pt/entidades/comissao-de-coordenacao-e-desenvolvimento-regional-do-centro</a>

## **NATIONAL AUTHORITIES**

**Fundação Para a Ciência e tecnologia (FCT)** - FCT supports the scientific community in Portugal through different financing instruments, aimed at scientists, research teams and R&D centers. These are the instruments that allow FCT to support advanced training, research and development, the creation of research infrastructures and access to them, to promote international networks and collaborations, conferences,



science communication and to interact with companies. FCT has a comprehensive and dynamic incentive program that can be consulted on this website - https://www.fct.pt/apoios/

**Agencia Nacional de Inovação (ANI)** - It aims to develop actions aimed at supporting technological and business innovation in Portugal, contributing to the consolidation of the National Innovation System (SNI) and to strengthening the competitiveness of the national economy in global. has a comprehensive and dynamic incentive program that can be consulted on this website -markets.https://www.ani.pt/

**Fundação "la Caixa"** ["la Caixa" Foundation ] - is a non-profit organization that, since the beginning of the 20th century, has been working every day to achieve a more equal society for all social groups. An organization that manages projects in different areas so important for the development of a society, such as science, culture, education or research. In 2019, together with BPI, the "la Caixa" Foundation reinforces its social action in several projects aimed at helping the people who need it most. in this context there are several initiatives that can be consulted here - <a href="https://www.bancobpi.pt/responsabilidade-social/fundacao-bancaria-la-caixa">https://www.bancobpi.pt/responsabilidade-social/fundacao-bancaria-la-caixa</a>

O **Centro Clínico Champalimaud (CCC)** - The Champalimaud Clinical Center (CCC) is a state-of-the-art medical, scientific and technological institution, where, in addition to the integrated and interdisciplinary provision of specialized clinical care, applied research activities and advanced medical and technical education programs are developed. The CCC practices personalized and patient-centered medicine that allows it to achieve higher levels of effectiveness in controlling the disease, which translates into greater survival and better quality of life. https://fchampalimaud.org/pt-pt

A **RUTIS** (Associação Rede de Universidades da Terceira Idade)- Private Institution of Social Solidarity (IPSS) and Public Utility to support the community and seniors, it makes the national register of Senior Academies and Universities, see list, in partnership with the Ministry of Solidarity, Labor and Social Security and with CASES (Cooperativa António Sérgio for the Social Economy). The RUTIS supports the creation of active aging projects, helps the emergence of more senior universities, promotes activities for seniors and holds national and international meetings. <a href="http://www.rutis.pt/paginas/3/atividades/">http://www.rutis.pt/paginas/3/atividades/</a>

Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

#### B2B – Business to business (between organizations)

- Tele consultation doctor, nurses, physiotherapy. Example: Tellocare company based in Coimbra <a href="https://www.tellocare.com/">https://www.tellocare.com/</a> for example, private company provide the service to a tertiary sector organization);
- Monitoring medical consultations with health services; Transport adapted to the needs of citizens;
- Intelligent technologies such as examples of intelligent public lamps which feature low energy consumption, reducing costs and, at the same time, monitoring the environment) (for example, private company provide this service to the local municipally);
- Implementation of signage adjusted to the needs of citizens and institutions, such as health centers; projects focused on the needs of the most vulnerable, such as Braille signage, for the blind. (for example, private company provide the service to the regional health authority).

#### **B2C – Business to Consumer**

• 3rd sector organizations/companies: domestic basic needs;



- Home delivery (pharmacy, grocery, meals);
- Tourism adapted to the needs of citizens (e.g. Termas São Pedro do Sul....)
- Senior universities (which foster lifelong learning. e.g. http://www.rutis.pt/universities/view/5);
- Stannah: elevator platforms that fosters the independent living at home <a href="https://www.stannah.pt/">https://www.stannah.pt/</a>

# 29. Romania

Contributor: Luiza Spiru, Flaviana Rotaru

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

- National Health Strategy 2014-2020 (Government Decision no 1028/2014); The Ministry of Health
  currently prepares the National Health Strategy 2021-2027, together with the general framework of
  the first Action Plan in the Field of Health Prevention and Promotion;
- National Strategy for Intelligent Research, Innovation and Specialization (SNSI);
- National Research, Development and Innovation Strategy (SNCDI)
- Romania's Sustainable Development Strategy 2030
- National Strategy for the Protection of the Elderly and the Promotion of Active Ageing for the period 2015-2020 and the Operational Plan for the period 2016-2020 (Government Decision no 566/2015) main objectives: extending and improving the quality of life; Promoting the active and dignified social participation; Achieving greater independence and safety for people in need of long-term care; Cross-cutting objectives for a longer life in good health
- National Strategy on Social Inclusion and Poverty Reduction 2015-2020 and the Strategic Plan for the period 2015-2020; The National Strategy and Action Plan on Social Inclusion 2021-2027 (SNIC) is under preparation and include several objectives related to SHAFE, such as: Development of social services intended mainly for single or dependent older adults to ensure active aging and equal opportunities (services aimed at encouraging the participation of the older adults in social life, preventing isolation and institutionalization; developing the network of home and community care services, including through mobile care units and subsidizing the costs of care and related services for the older adults who live alone; development of home care services (long-term care) for single and / or dependent elderly people; development of sheltered housing for the elderly; emergency call centers, but also for counseling; development of social telecare through the use of electronic devices, online communication, assistive devices such as bracelets and other assistive technologies, electronic applications; training of specialists working with the elderly; Adaptation, arrangement and minimum endowment of the homes of elderly people at risk of social exclusion, depending on their needs to prevent the risk of falling and losing functional autonomy, the purchase of assistive equipment; increase healthy life expectancy among the population by providing social services that promote active aging through measures to encourage a healthy lifestyle, while improving measures to access care for those in need, encouraging social participation, and measures to ensure financial security).
- Emergency Ordinance no. 196/2020, for amending and supplementing Law no. 95/2006 on health care reform The normative act regulates the possibility of providing remote medical services, through telemedicine, by all health professionals



- The legal framework in the area of social services, preventing social exclusion was revised by adopting Law 292/2011 on social assistance (introducing reforms for the social assistance of people with disabilities, and for the social assistance of the elderly)
- PAL-PLAN 2020-2023 "Increasing the institutional capacity for the coordinated national development
  of palliative care and home care" <a href="https://anmcs.gov.ro/web/lansare-proiect-pal-plan-cresterea-capacitatii-institutionale-pentru-dezvoltarea-nationala-coordonata-a-ingrijirilor-paliative-si-ingrijirilor-la-domiciliu/">https://anmcs.gov.ro/web/lansare-proiect-pal-plan-cresterea-capacitatii-institutionale-pentru-dezvoltarea-nationala-coordonata-a-ingrijirilor-paliative-si-ingrijirilor-la-domiciliu/</a>
- Regional SMART Specialization Strategies RIS 2021 2027 (8 regions) See Annex 4

Governmental experts: Professor Luiza Spiru, MD, PhD, Ana Aslan International Foundation

# Relevant stakeholders and policy makers

	Local	Regional	National
Health	County public health	8 Regional	Ministry of Health
	directorates	Development Agencies	
		(ADR)	National Authority for Quality
	Hospitals, Clinics,		Management in Health
	Healthcare		
	Foundations,		<u>Authority for Digitalization of</u>
	Academia (Universities		<u>Romania</u>
	of Medicine)		
Social	General Directories of	8 Regional	Ministry of Labour and Social
	Social Assistance	Development Agencies	<u>Protection</u>
		(ADR)	
			National Council of Older Adults
			(http://cnpv.ro/)
Built	Municipalities	8 Regional	Ministry of Development, Public
environment		Development Agencies	Works and Administration
		(ADR)	
Digitalisation	Municipalities	8 Regional	Ministry of Research, Innovation
		Development Agencies	and Digitalization
		(ADR)	
			<u>Authority for Digitalization of</u>
			Romania
Development	Municipalities	8 Regional	Ministry of Development, Public
		Development Agencies	Works and Administration
		(ADR)	A distance of Eastern
			Ministry of Economy,
			Entrepreneurship and Tourism



			National Council of Small and Medium Private Enterprises in Romania
Education	Municipalities	8 Regional Development Agencies	Ministry of Education
		(ADR)	Ministry of Health
Research	Municipalities	8 Regional Development Agencies (ADR)	Ministry of Research, Innovation and Digitalization
			Ministry of Investments and European Projects
			Ministry of Health

Ana Aslan international Foundation (ANA) is the coordinator of the Romanian pilot of **H2020 Project SMART BEAR** "Smart Big Data Platform to Offer Evidence-based Personalised Support for Healthy and Independent Living at Home" (<a href="https://www.smart-bear.eu/">https://www.smart-bear.eu/</a>).

The duration of the project is 4 years (Sept 2019 - Aug 2023) and involves 27 partners from 10 participating countries: Italy (Project Coordinator - CNR Naples), Switzerland, France, Greece, Israel, the Netherlands, Portugal, Romania (WP11 LEADER – ANA), Spain and the UK.

Project validation will be done through **five large-scale pilots**, involving 5,100 older adults living at home in France, Greece, Italy, Romania and Spain. **Each of the 5 pilots will involve 1100 independent users at home**.

The Romanian pilot SMART BEAR is conceived as an ecosystem, with two strategic partners: The Family Physicians Association Bucharest-Ilfov (AMFB) and the Center for Seniors of the Municipality of Bucharest (CS-MB).

The purpose of the project is the development of an integrated solution that will collect daily information from older adults having certain medical conditions - through different types of sensors, medical assistive devices and mobile devices. This information will be analyzed and processed in order to provide customized interventions to support a healthy independent lifestyle.

The SMART BEAR platform will be connected to hospitals and other healthcare services in order to obtain all the information necessary to make the right personalized decisions.

See Annex 5 for more details.

In Romania, in general, SHAFE ecosystems are at the very beginning, in spite of the best internet access among the European countries. In large cities there are initiatives of public organizations that support active aging and social



inclusion of the older adults, while in small cities and rural areas the concept is still related to the traditional family culture. Some examples of public local initiatives that support active ageing would be:

- Equipping parks with outdoor fitness equipment
- Third Age University (U3A) Galati courses and other activities for seniors <a href="http://www.u3a.ugal.ro/index.php/cursuri">http://www.u3a.ugal.ro/index.php/cursuri</a>
- <u>General Directories of Social Assistance</u> <u>initiatives that support active ageing</u> <u>Day</u> Centers and clubs for seniors, volunteer activities, dances, cafe, events, etc
- Bucharest City Hall Bucharest Center for Seniors <a href="https://www.cs-mb.ro/despre-csmb">https://www.cs-mb.ro/despre-csmb</a> activities for older adults

There are also entities that cooperates towards the objectives of SHAFE:

- Ana Aslan Intl Foundation and The Excellence Clinic in Memory Disease and Longevity Medicine (President Prof. Luiza Spiru, MD, PhD): The AAIF's mission is to integrate scientific progress into preventive and personalized medicine, by offering the tools that transform the medicine of brain aging into the medicine of longevity. AAIF is the network initiator and national leader of the COST Actions Net4Age-Friendly, CA19136 and GoodBrother, CA19121: <a href="https://www.anaaslanacademy.ro">www.stresscongress.org</a>
- Ana Aslan Intl Foundation's Seniors Community, <a href="https://www.facebook.com/groups">https://www.facebook.com/groups</a>
- **EADC** (European Alzheimer's Disease Consortium) is a network of over 50 European centres of clinical and biomedical research excellence working in the field of Alzheimer's disease and related dementias (Romania: Prof. Luiza Spiru, MD, PhD): <a href="http://www.eadc.info/sito/pagine/b">http://www.eadc.info/sito/pagine/b</a> 08.php?nav=b
- **EPMA** promotes the paradigm change from delayed reactive medical services to evidence-based Predictive, Preventive & Personalised Medicine (PPPM) as an integrated science and healthcare practice (Romania: Prof. Luiza Spiru, MD, PhD): <a href="https://www.epmanet.eu/about-us/national-representatives/romania">https://www.epmanet.eu/about-us/national-representatives/romania</a>
- Alzheimer Europe (https://www.alzheimer-europe.org/)
- Alzheimer's Disease International (https://www.alzint.org/about/)
- ♣ AGE Platform Europe, The voice of older persons at EU level: https://www.age-platform.eu/
- **WONCA Europe**, the academic and scientific society for general practice/family medicine in Europe: <a href="https://www.woncaeurope.org/">https://www.woncaeurope.org/</a>
- **EBC** (European Brain Council), promotes brain research with the ultimate goal of improving the lives of the estimated 179 million Europeans living with brain conditions: <a href="https://www.braincouncil.eu/">https://www.braincouncil.eu/</a>
- **AAL Europe**: <a href="http://www.aal-europe.eu/">http://www.aal-europe.eu/</a>
- **↓ EC** (European Commission), <a href="https://ec.europa.eu/info/index\_en">https://ec.europa.eu/info/index\_en</a>, Prof. Luiza Spiru, MD, PhD, expert in: Ageing, Biotechnology, generic tools and medical technology, Clinical Pharmacology, Clinical trials, Gender in clinical medicine, Geriatrics and gerontology, Health, Hypnosis, Information and Communication Technologies, Neuroanatomy and neurophysiology, Neurochemistry and neuropharmacology, Neurosciences, Optimizing the delivery of health care, Phytotherapy, Psychiatric disorders (e.g. schizophrenia, autism, Psychophysiology of ageing, Psychosomatics, Research on the brain and related diseases): <a href="https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=H2020">https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=H2020</a>



- **ROHEALTH** (Silver Cluster) has currently 77 members, including: 42 innovative SMEs from Health and Bioeconomy for Health, 10 Universities (5 of Medicine), 6 Hospitals, 6 National Research Institutes, NGOs and physical persons, covering expertise in R&D, training, couching entrepreneurs, consulting services, internationalization and technological transfer and is under evaluation by ESCA for Gold Label Award: https://rohealth.ro/en/about-us
- MEDRo network Romanian Network of Clusters in the medical field (<u>www.rohealth.ro/medro</u>) a network that includes all health clusters in Romania having as first objective the awareness at national level of the importance of financing the health field from the perspective of research and innovation
- ♣ Other Health clusters: see Annex 3 List of clusters
- Bucharest City Hall, CSM-B (Bucharest Center for Seniors), initiatives and projects for the benefit of the older adults: <a href="https://www.cs-mb.ro/despre-csmb">https://www.cs-mb.ro/despre-csmb</a>
- Bucharest City Council, DGAS (General Directorate of Social Assistance of Bucharest), https://www.dgas.ro/despre-noi/
- Care centres for older adults offering services for persons with neurodegenerative diseases: Geronto Life Med (geriatric-gerontology clinic) and more than 140 elderly care centres all over the country (see Annex 1, list of care centres)
- University of Medicine and Pharmacy "Carol Davila" Bucharest: <a href="https://umfcd.ro/en/">https://umfcd.ro/en/</a>
- **Romanian College of Physicians**, <a href="https://www.cmr.ro/">https://www.cmr.ro/</a> and Bucharest College of Physicians <a href="https://www.cmb.ro/">https://www.cmb.ro/</a>
- **AMF-B** (Bucharest-Ilfov Family Physicians Association), <a href="https://amf-b.ro/">https://amf-b.ro/</a> (ecosystem SMART BEAR, H2020 project) and the National Society of Family Physicians
- Ministries: Ministry of Health, Ministry of Investments and European Projects, Ministry of Education (AAL funding UEFISCDI), Ministry of Research, Innovation and Digitalization, Ministry of Labour and Social Protection
- Companies and NGOs that offer funds and support for older adults and healthy ageing in general: Romanian Alzheimer's Society, White-Yellow Cross Foundation, "Sfanta Vineri" Center Haller Association, Home Care Association (Romania), <a href="Citizenship Education and Action Group">Citizenship Education and Action Group</a>, Romanian Smart City Society, INES Foundation, Ever Pharma, GNC, UNICREDIT Bank, Orhideea Development, Exigent Development, AAA Evolution Optimus, Aquacity, SYNLAB labs network, Smart EpiGenetX, The Care Hub
- Public research infrastructures dedicated to mental health research: https://eeris.eu
- Hospitals hosting mental care units
- Cooperation between Academia and Research
- Order of Architects of Romania (OAR)
- Medical and social hubs
- And others

(National, regional, local) funding opportunities on SHAFE



**Romania has 8 Euroregions:** București-Ilfov, Center, North-East, North-West, South-East, South-Muntenia, South-West Oltenia and West.

The Regional Development Agencies (ADR) fulfill the role of Managing Authority for the regional operational programs 2021-2027 (non-reimbursable external funds for the regional development of Romania), according to the Emergency Ordinance of the Government no. 122 of July 29, 2020.

### National and regional funding opportunities

#### 1. REGIONAL OPERATIONAL PROGRAMS

There are 9 regional draft operational programs under public consultation for the period 2021-2027:

- 1. Intelligent Growth, Digitization and Financial Instruments
- 2. Sustainable Development
- 3. Transport
- 4. Education and Employment
- 5. Inclusion and Social Dignity
- 6. Health
- 7. Regional
- 8. Technical Assistance
- 9. Fair Transition

#### 2. Health Operational Program (POS)

The draft of the program for the period 2021-2027 is currently in public consultation. Funding sources: FEDR (European Regional Development Fund) and FSE (European Social Fund)

The total budget of EUR 4.068 billion allocated to SOP 2021-2027 will be directed to the following priorities:

- Investments for the construction of regional hospitals and new hospital infrastructures, with major territorial impact 1.28 billion euros (ERDF, ESF +);
- Primary and community health care services and services provided on an outpatient basis 235 million euros (ERDF, ESF +);
- Rehabilitation, palliation and long-term care services, adapted to the demographic phenomenon
  of population aging and the epidemiological profile of morbidity 200 million euros (ERDF, ESF +);
- Increasing the efficiency of the medical sector through investments in infrastructure and services 1.49 billion euros (ERDF, ESF +);
- Innovative approaches in medical research 412 million euros (ERDF);
- Digitization of the medical system 214 million euros (ERDF);
- Measures supporting research, computerization in health and the use of modern methods of investigation, intervention, treatment - 235 million euros (ERDF, ESF +).

In the period 2021-2027 there will be several sources of funding in the field of health in addition to SOP, namely: Resc EU, Eu4Health, PNRR, React EU, Horizon Europe.

Ana Aslan International Foundation was Selected as Partner of the European Funds Ministry for the 2021-2027 Health Operational Program and contributed to the list of SMART health specialisations: **eHealth**,



**Personalised Medicine**, **Longevity Medicine**, Fighting addictions, **Technologies for autonomous living**, Early diagnosis, One health (see Annex 4).

http://mfe.gov.ro/wp-content/uploads/2020/07/ca2f8e59262b186de3097839156a3a98-1.pdf

- **3.** NATIONAL RECOVERY AND RESILIENCE PLAN (PNRR) <a href="https://mfe.gov.ro/pnrr/">https://mfe.gov.ro/pnrr/</a> approved by the Government on 07.04.2021
- **4. Programs of the National Authorites** for example the Authority for Digitalization of Romania launched a program financed by ERDF: Computer System for Health Records RegIntermed
- **5. GRANT CONTESTS** organized by private companies: Orange, Vodafone, Kaufland "Stare de bine", Banca Transilvania, Unicredit, Business Angels Romania

At local level, the funds are granted by the municipalities – grant contest approved by the local Council.

4. Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

### 30. Serbia

Contributors: Dr Tatjana Lončar-Turukalo (Dr Gorana Mijatović), Dr Milica Solarević (Dr Marija Cimbaljević)

The Republic of Serbia is not a member of the European Union. In March 2012 Serbia was granted EU candidate status. The Stabilization and Association Agreement (SAA) is an international treaty, which entered into force on 1 September 2013, thus granting the Republic of Serbia the status of an associated country to the European Union. The two most significant commitments that our country has taken over with the signing of this Agreement are to establish a free trade zone and align domestic legislation with the EU. SAA is a legal basis for the improvement of cooperation between Serbia and the EU in a number of areas, including (among others): tourism, social cooperation, education and training, cultural cooperation, collaboration in the audiovisual field, information society, electronic communications networks and services, information and communications, environment, research and technological development, public administration (https://www.mei.gov.rs/eng/serbia-and-eu/stabilisation-and-association-agreement/). Today, the Republic of Serbia has three levels of public administration - national (republic), regional and local (city/municipal), so strategies and action plans are defined in this way. At the local level are defined local action plans for the implementation of national strategies, harmonized with the local unit characteristics. However, at the regional level, additional strategies and plans are often adopted, which are certainly in line with the national one.

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

The number of the elderly is increasing faster than the number of people of any other age group and therefore, their participation in the total population is also at an increase. According to United Nations estimates, the number of people over the age of 65 will, by mid-21<sup>st</sup> century, for the first time in human history, exceed the number of children younger than 5, even children younger than 14, and every fourth inhabitant of the planet will be over the age of 65 (World Population Ageing: Report, 2015). The share of people older than 65 in Serbia is around 20% (Statistical Office of the Republic of Serbia, 2017), and the projections based on vital statistics show its further increase.

Active aging index in Serbia was 29.4, based on the pilot report of 2016, which is lower than the average in the European Union in the same year (33.9). In 2005, the Government of Serbia adopted the **National Strategy on Ageing 2006-2015** 



(only in Serbian language) and founded the **Council for Improving Intergenerational Cooperation and Solidarity** in 2018. The main goal of the National Strategy is to create an integrated and coordinated policy, based on modern scientific knowledge and obligations which will society and economy of the Republic of Serbia, primarily health and social protection, labour market and education, harmonize with demographic changes - in order to create a society for all ages, which especially strives to meet the needs and unleash the untapped potential of older people. The strategy is based on the following basic principles: lifelong development of the individual, promotion and protection of all human rights and fundamental freedoms, ensuring economic and social security and quality of life in old age, enabling full integration and participation of older people in the community, elimination of all forms of social neglect due to declining functional abilities in old age and disability, engagement in achieving gender equality, respect for diversity and consequently different needs among the elderly population, promoting intergenerational and intragenerational transfer; solidarity and dialogue.

In accordance with the Madrid International Plan on Action of Ageing (MIPAA) (UN, 2002), and Regional Implementation Strategy (RIS) (ECE/AC.23/2002/2/6, 2002), Serbia is actively working on improving solidarity and inciting participation, non-discrimination and social inclusion of the elderly. **The National Report on the Application of Madrid International Plan on Action of Ageing and evaluation results of National Strategy on Ageing** (UN, 2016; Kozarčanin, Milojević, 2016) have indicated that implementation of the set goals of the strategy should be continued as they are in accordance with the goals defined by the European Union to 2022 (only in Serbian).

National Strategy of Public Health in the Republic of Serbia 2018–2026 supports the improvement of health, prevention of diseases and prolongation of the quality of life of the population. Good health is essential for sustainable economic and social development and a basic concern in the life of every person, family and society. The strategy supports the fulfilment of social care for human health and encourages the responsibility of the state and society in ensuring wellbeing for all citizens by improving health, extending the expected duration of quality of life, preserving a healthy living and working environment. The goals are achieved through all forms of partnership for health and emphasizing the importance of a comprehensive approach through interdisciplinarity and multisectoral cooperation (only in Serbian). The elderly make up 15% of social protection beneficiaries in Serbia, and gender differences in risks and availability of social protection services are observed. They are most endangered in singles, and especially in rural households. Social protection services are available for 1% of the elderly population, and the need for services is expressed by 4% of the elderly. The consequences of policies and measures for the protection of the elderly are significant and far-reaching for all areas of society. It is essential that issues related to population aging be included in all policies, in order to align the development of society and the economy with demographic change. In 2018, the Ministry of Labor, Employment, Veterans' Affairs and Social Affairs started the process of drafting the Social Protection Strategy for the period 2019-2025. Social protection strategy 2019-2025 represents a social agreement on the development of social protection policies in the next medium term. The social protection strategy responds to the needs of society and defines directions for further development of social protection policies, as well as more effective and efficient integration of social protection policies with national development. priorities and other sectors. The new Social Protection Strategy represents continuity in the previous reforms and enables consistency in the work in the field of social protection (only in Serbian).

In 2006, the Government adopted the Strategy for the Development of the Information Society in the Republic of Serbia until 2020, which is the first act of state bodies which completely regulates the field of the information society. After that is adopted The strategy for the development of electronic communications in the Republic of Serbia from 2010 to 2020, which is based on the comprehensive progress of electronic communications, which, among other things; includes efficient spectrum management, development of broadband access and introduction of new multimedia services, implementation of the transition from analogue to digital television broadcasting, programs and encouraging research and development, as well as domestic production of telecommunications equipment. Digitization will provide citizens with access to a variety of content, convergence of services, new services for people with special needs, the elderly and members of national minorities (only in Serbian).

The e-government development program in the Republic of Serbia for the period from 2020 to 2022 is a public policy document which plans to reform public administration in a way that uses innovative technological solutions that will enable economic development, bring savings in the budget, as well as improve the level of service provision to citizens



and the economy. The goal is to create and develop new public administration services, while recognizing the possibilities provided by new technologies such as artificial intelligence, the Machine Learning, Deep Learning, development of the Internet of Things, EDGE, quantum computing, etc (only in Serbian).

The Strategy for the Development of Digital Skills in the Republic of Serbia for the Period from 2020 to 2024 is a national strategic program of the Government which comprehensively regulates the development of digital skills of the population with the aim of using the potential of modern information and communication technologies, quality of life of all citizens, higher employment, work efficiency and economic growth of society. The Strategy reflects the continuity and relies on the Digital Agenda for Serbia, which consists of the Strategy for the Development of the Information Society in the Republic of Serbia until 2020 and the Strategy for the Development of Electronic Communications in the Republic of Serbia from 2010 to 2020 (only in Serbian).

Smart specialization strategy in the Republic of Serbia for the period from 2020 to 2027 is part of a new innovation policy paradigm that brings together decision makers, academia and civil society and civil society to raise the competitiveness of the economy, economic growth and progress through connecting research, industrial and innovation forces and resources with a limited number of priority economic areas (only in Serbian).

Picture of the elderly population in Serbia, various aspects of their position and living conditions, on the basis of which insights into social inclusion and overall quality of life, show that their position is relatively unfavorable, that they face numerous problems in achieving satisfactory living conditions, and that compared to the elderly population living in the EU28 they live shorter and of poorer quality. The key areas in which priority is given to improving the situation to which attention is sought here are:

- Improving institutional mechanisms for monitoring the living conditions of the elderly, monitoring the implementation of policies and measures and assessing their effects
- Improving social and health care services
- Improving the digital inclusion of the elderly
- Reducing the gender gap among the elderly, through improving the protection of older women (Research on social inclusion of the elderly (65+) in Serbia, 2018; in Serbian).

Although a lot of work has been done lately to improve the strategic and legal framework that would enable the development of the age-friendly environment in Serbia, most things are only on paper. First of all, it is necessary to adopt as soon as possible the draft and plan of a new strategy on aging, which would be harmonized with other strategies in the field of smart, healthy and age-friendly environment. Given that other strategies in the mentioned areas and above presented, it is expected that the reports on this topic will be significantly better in the future.

The work published under the support of the Commissioner for Protection of Equality in the Republic of Serbia, describes the challenges of elderly people living in cities across Serbia. Unfortunately report available only in Serbian. <a href="http://ravnopravnost.gov.rs/wp-content/uploads/2019/12/starenje-u-gradovima-izazovi-savremenog-drustva-ebook.pdf">http://ravnopravnost.gov.rs/wp-content/uploads/2019/12/starenje-u-gradovima-izazovi-savremenog-drustva-ebook.pdf</a>

### 2. Relevant stakeholders and policy makers

	Local	Regional	National
Health	City directorate for healthcare for Novi Sad	Provincial secretariat for Health Institute of Public Health of Vojvodina	Ministry of Health
Social	City directorate for social and child protection for Novi Sad	Provincial secretariat for Social politics,	Minister for Demography and population politics



	Center for social work, Novi Sad ( <u>Service for adults and elderly people</u> ) Society of retired people in Novi Sad	Demography and Gender Equality  Provincial Institute for Social Protection	Ministry of Labour, Employment, Veteran and Social Affairs Institute for Social Insurance Commissioner for Protection of Equality Caritas Serbia The Pension and Disability Insurance Fund of Serbia
Built environment	City directorate for urbanism and construction	Provincial secretariat for urbanism and environmental protection	Ministry of Construction, Transport and Infrastructure
Digitalisation	none	Vojvodina ICT Cluster	<u>Digital Serbia Initiative</u>
Development	City directorate for economy	Provincial secretariat for Economy and Tourism	Ministry of Economy Ministry for European Integration
Education	City directorate for education	Provincial Secretariat for Higher Education and Research	Ministry of Education, Science and Technological Development
Research	None	Provincial Secretariat for Higher Education and Research	Ministry of Education, Science and Technological Development
Other: please specify			
Other: please specify			

<sup>\*</sup>Please note that most of the sites, if available in English, have very high level information. Much more detailed websites are in Serbian language. However, activities at local and regional level aimed at elderly population are mainly focused on refurbishments and opening of gerontological centers in the city and region. Additionally, there are clubs (and societies) of elderly and retired people, which offer social, legal and health related advice and help to their members, those are places to socialize and make some contribution.

### 3. (National, regional, local) ecosystem on SHAFE of the partner

Despite thorough search, we did not manage to find an ecosystem on SHAFE, apart from governmental care on the basic needs of elderly people, such as institutionalized help including health, retirement funds and social help. In the digitalization strategy of the Republic of Serbia, currently the initiative on digital literacy of elderly people is not in focus,



as there are so many other strategic aims where digitalization did not take place so far. Our professional involvement includes engagement in societies which could potentially be relevant to an SHAFE ecosystem. The team from the Department of Geography, Tourism and Hotel Management is involved in many demographic associations and initiatives, while the team from the Faculty of Technical Sciences is more involved in societies and initiatives related to the development of the ICT enabling technology that is supportive of implementation of the SHAFE (as well as others similar pervasive monitoring and remote assistance applications)

Milica Solarević is a member of The Association of Demographers of Serbia which was formed in 1990. The Association of Demographers of Serbia is a voluntary, non-partisan, non-governmental, independent and not-for-profit association of scientific and professional workers united in the pursuit of common goals and tasks set out in its Statute. The main activities are related to the popularization of demographics and demographic issues and since its inception it has been engaged in the organization and realization of scientific research as well as publishing. Since 1990, together with the Center for Demographic Research of the Institute of Social Sciences, he has co-published the scientific journal "Stanovništvo", and since 2000 the Bulletin "Demografski pregled" (together with the Ministry of Labor and Social Policy and the Center for Demographic Research of the Institute of Social Sciences). Each year, the traditional Lecture is given, presenting the results of demographic surveys or discussing selected topics related to the current demographic moment of Serbia. According to the Statute, the Association of Demographers of Serbia also organizes cooperation between demographers and researchers from other fields, organizes cooperation with related social organizations, associations, institutions and scientists abroad, establishes cooperation with economic, socio-political and cultural organizations (https://dds.civicatalyst.org/node/18).

Milica Solarević is a member of the team of the Faculty of Sciences University of Novi Sad that initiated the signing of the cooperation agreement with The Protector of Citizens - Ombudsman of the Autonomous Province of Vojvodina, which is an independent institution protecting and promoting human rights and freedoms. Cooperation includes joint research in areas of interest to the general public, joint participation in conferences, organizing public forums to popularize demographic and similar topics and problems. Also, students have provided access to the archives and library of the Ombudsman institution, for their seminar works or practice professional (https://www.ombudsmanapv.org/eng/index.php).

Milica Solarević is a member of The Demographic research team of the Department of Geography, Tourism and Hotel management, Faculty of Sciences, which is dealing with research on diverse aspects of population and social topics (population dynamics, population ageing, migration, human mortality, fertility, population policies). Main activities are delivering, promoting and implementing research results in society. Development and increase of scientific and professional collaboration is one of the research priorities, at national as well as international level. Through diverse funds (IPA, COST, Bilateral cooperation, Erasmus+), team members already achieved meaningful collaboration with several universities and research groups, both in region and other European countries. Group has also established collaboration with the Association of Serbian Demographers, Provincial Secretariat for Social Policy, Demography and Gender Equality and Provincial Secretariat for Education, Regulations, Administration and National Minorities-National Communities (<a href="http://www.dgt.uns.ac.rs/en/homepage/demographic-research/">http://www.dgt.uns.ac.rs/en/homepage/demographic-research/</a>).

**Tatjana Loncar-Turukalo and Gorana Mijatovic** are members of the research centers involved in the analysis of the data and massive information processing including applications in medicine and biology. One is *The Centre of Excellence for Vibro-Acoustic Systems and Signal Processing (CEVAS)* as a formal organisational unit of the Faculty of Technical Sciences (FTN), Novi Sad, formed in October 2014.

The CEVAS integrates three research groups from the FTN: group for Nonlinear Dynamics and Oscillations, group for Acoustics and Speech Technology, **group for Biomedical Signal Processing** (where we take part).

<u>ICONIC research centre</u>, supported by the currently ongoing H2020 Twinning project INCOMING GA No. 856967. ICONIC centre (Centre for Intelligent Communications, Networking and Information Processing) gathers top-performing Faculty



of Technical Sciences research teams organized into Communication Systems, **Information Processing Systems** and System Design groups with close to 40 mostly young and ambitious research staff members. The research context of ICONIC centre is based on upcoming 5G technology supported by emerging Internet of Things and Mobile Edge Computing concepts. Research focus is on massive-scale data acquisition via IoT and large-scale information processing via MEC and Cloud systems.

Tatjana Loncar-Turukalo is a member of IEEE Engineering in Medicine and Biology Society.

**Tatjana Loncar-Turukalo** has been involved in the development of an action plan for the implementation of the <u>Strategy</u> for the <u>Development</u> of <u>Artificial Intelligence</u> in the <u>Republic of Serbia for the period 2020-2025</u>, and takes part in development and work of the recently founded first AI Institute in the Republic of Serbia. These developments may be relevant for the efficient implementation of applications such as those needed in a SHAFE ecosystem.

#### (National, regional, local) funding opportunities on SHAFE

We are currently not aware of, nor did we manage to find any open call of a local, regional or national to support the development on SHAFE. However researchers in Serbia are invited to collaborate on EU funded projects, where topics span as well societal and health related challenges such as aging and well-being.

The signing of the SAA is a necessary step towards acquiring the status of candidate for membership, thus creating conditions for opening the remaining components of the IPA pre-accession fund, as well as opportunities for the use of significantly larger EU funds.

#### Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

• One of the examples of sustainability and smart management is the "smart city" project, which the city of Belgrade (Serbia) is implementing with the Siemens company. It is a "smart solution" for traffic jams that works by applying a traffic management system by zones, which allows vehicles to be directed depending on the traffic jams, as well as to have more green waves. Traffic management means managing the entire network or zone, and not just one corridor, which citizens recognize as a green wave. The data obtained is then processed in software that is part of the package supplied by Siemens. The processed data is then returned to the devices and preference is given to those routes that are most busy. Part of this project is the establishment of a system that will give priority to public transport vehicles, primarily trams. The control units are installed in trams, as well as on the street, so the software recognizes the arrival of trams, stops dynamic traffic, leaks a rail vehicle and it does not stay at intersections.

Within the mentioned project, special emphasis was put on improving the knowledge of employees, as well as for the members of the Traffic Safety Council.

Another example of a business model that contributes to the SHAFE concept relates to the digitization and
presentation of cultural heritage. The Museum of Vojvodina (Novi Sad, Serbia) has a leading role in coordinating
the entire process of digitization of movable cultural heritage on the territory of Serbia. The museum has
implemented a number of digital solutions, important for the sustainability of cultural heritage, as well as for
presentation to tourists and citizens, such as applications based on augmented reality, QR codes, audio guides.

The Museum of Vojvodina, together with the History Museum of Serbia and the Institute for the Protection of Cultural Monuments of the City of Novi Sad, is working on creating and modifying Imus and Zimus software solutions that serve to catalog and digitize documentation on movable and immovable cultural heritage. Through the Timus application, one of the leading goals of digitalization has been achieved - visibility and accessibility of cultural heritage. As part of the permanent exhibition of the Museum of Vojvodina and on the websites of the Museum of Vojvodina (https://www.muzejvojvodine.org.rs/index.php/lat/) and the Institute for the Protection of Cultural Monuments of the City of Novi Sad (http://www.zzskgns.rs/kulturna-dobra-online/) for the first time, a visitor can discover the long-kept



secret of the depot. Education and dissemination of knowledge raise awareness of the importance of cultural heritage for the identity of a city, state and people.

One of the current projects is the construction of the E-museums platform, which enabled the adaptation of the content to the millennial way of thinking. The E-Museums platform is a synergy of knowledge, entertainment and culture. It connects schools and museums, contributes to the modernization of the presentation of content and enables curators to acquire new knowledge in the field of interpretation of cultural heritage and audience development, with the application of modern information and communication technologies.

Another important project is the application of digital photogrammetry in the field of cultural heritage. The project is aimed at standardizing the photography of cultural heritage in order to create photogrammetric models. 3D digitization is inevitable in future approaches to treating cultural heritage documentation.

### 31. Slovenia

Contributors: Mateja Nagode, Simona Hvalič-Touzery, Lea Lebar, Vesna Dolničar

### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

- Slovenian Active Ageing Strategy (2017) defines the vision and main goals in designing responses to
  the challenges posed by changed age structures of the population in Slovenia and aims towards
  greater integration of long-term care services. Stresses the importance of support of ICT and
  technological solutions.
  <a href="https://www.umar.gov.si/fileadmin/user\_upload/publikacije/kratke\_analize/Strategija\_dolgozive\_druzbe/UMAR\_SDD\_ang.pdf">https://www.umar.gov.si/fileadmin/user\_upload/publikacije/kratke\_analize/Strategija\_dolgozive\_druzbe/UMAR\_SDD\_ang.pdf</a>
- Resolution on the National Health Care Plan 2016-2025 states that the key challenge in Slovenia is the establishment of a comprehensive and integrated long term care system, with emphasis on the de-institutionalization and development of community-based housing and care. Resolution gives importance to ICT in healthcare and long-term care (digitalization, e-care, e-health etc.). http://pisrs.si/Pis.web/pregledPredpisa?id=RESO102
- Resolution on the National Social Assistance Programme 2013-2020 is aiming at equal access to quality and safe long-term care services, integrated and comprehensive treatment. ICT and assistive technology is recognized in the document. New strategy is to be adopted in 2021. <a href="http://www.pisrs.si/Pis.web/pregledPredpisa?id=NACP68">http://www.pisrs.si/Pis.web/pregledPredpisa?id=NACP68</a> (Only available in Slovenian.)
- Slovenian Development Strategy 2030 with the primary objective of a high quality of life for all. Gives attention also to IKT and digitalisation. <a href="https://www.gov.si/assets/vladne-sluzbe/SVRK/Strategija-razvoja-Slovenije-2030/Slovenian-Development-Strategy-2030.pdf">https://www.gov.si/assets/vladne-sluzbe/SVRK/Strategija-razvoja-Slovenije-2030/Slovenian-Development-Strategy-2030.pdf</a>
- Operational Programme for the Implementation of the EU Cohesion Policy in the period 2014 2020 Slovenia. One of the priority axis (2.9) of the Programme emhasises ICT-related pilot projects, with planned calls for projects in the field of long-term care and care as well as development of ICT-supported services and ICT support structures. <a href="https://www.eu-skladi.si/sl/dokumenti/kljucni-dokumenti/op\_ang\_final\_web.pdf">https://www.eu-skladi.si/sl/dokumenti/kljucni-dokumenti/op\_ang\_final\_web.pdf</a> (p. 183-186)
- The bill on Long-term Care (June 2021) was adopted by the government of Slovenia and is currently in discussion before being considered in the National Assembly. The bill introduces ICT supported services to the list of long-term care services. University Medical Centre (UMC) Ljubljana Development Strategy 2018 2023. The strategy of the biggest UMC in Slovenia recognises the importance of the digitisation of healthcare and the development of telemedicine approaches in managing non-



communicable diseases. <a href="https://www.kclj.si/dokumenti/tocka\_2\_STRATEGIJA\_17\_04\_2018\_Koncno.pdf">https://www.kclj.si/dokumenti/tocka\_2\_STRATEGIJA\_17\_04\_2018\_Koncno.pdf</a> (Only available in Slovenian.)

- Strategic Development Programme of Health Insurance Institute of Slovenia 2020 - 2025. Strategic Activity 3 assumes several steps, including developing and updating existing payment models to promote rapid integration of new technologies into treatment methods (e.g., telemedicine). <a href="https://api.zzzs.si/ZZZS/info/egradiva.nsf/0/49222d7a58687039c12584c700312620/\$FILE/SRP%20ZZZS%202020-2025\_december%202019.pdf">https://api.zzzs.si/ZZZS/info/egradiva.nsf/0/49222d7a58687039c12584c700312620/\$FILE/SRP%20ZZZS%202020-2025\_december%202019.pdf</a> (Only available in Slovenian.)

### Relevant stakeholders and policy makers

	Local	Regional*	National
Health	Municipalities and its organisations (health centre etc.), care (nursing) homes	National Institute of Public Health (regional units), hospitals, , University Medical Centre Ljubljana, University Medical Centre Maribor	Ministry of Health, National Institute of Public Health, Health Insurance Institute of Slovenia, Slovenian Medical Informatics Association, Slovenian Coalition for Public Health, Environment and Tobacco Control, University Rehabilitation Institute Republic of Slovenia Soča.
Social	Municipalities and its organisations (Centres for social work, units etc.), care (nursing) homes; Age-Friendly Cities and Communities	Centres for social work, regional, Simbioza Genesis, social enterprise	Ministry of Labour, Family, Social Affairs and Equal Opportunities; Social Protection Institute of the Republic of Slovenia, Institute of Economic Research, Slovene Federation of Pensioners' Associations, Associations, Association of Social Institutions of Slovenia; Slovenian Network of Age-



	<u> </u>		Fired Cities and
			Friendly Cities and
			Communities
Built environment	Municipalities		Ministry of the
			Environment and
			Spatial Planning,
			Urban Planning
			Institute of the
			Republic of Slovenia
Digitalisation			Strategic Council for
			Digitization (SSD),
			HealthDay.si, Institute
			for Electronic
			Participation
Development			Ministry of Economic
Development			Development and
			Technology,
			HealthDay.si
Education	Municipalities and its	faculties, universities	Ministry of Education,
Education	· ·	raculties, universities	Science and Sport,
	organisations (schools,		faculties, universities
	kindergarten etc.)		(e.g. University of
			Ljubljana Faculty of
			Social Sciences;
			University of Ljubljana
			Faculty of Health
			Sciences; University of
			Ljubljana Faculty of
			Economics; University
			of Ljubljana, Faculty of
			Electrical Engineering,
			Laboratory for
			Telecommunications,
			Social Protection
			Institute of the
			Republic of Slovenia;
			Angela Boškin Faculty
			of Health Care;
			Institute Jožef Stefan;
			University of Maribor
			Faculty of Electrical
			Engineering and
			Computer Science),
			Anton Trstenjak
			Institute



Docorob	faculties universities	Ministry of Education
Research	faculties, universities	Ministry of Education,
		Science and Sport,
		faculties, universities
		(e.g. University of
		Ljubljana Faculty of
		Social Sciences;
		University of Ljubljana
		Faculty of Health
		Sciences; University of
		Ljubljana Faculty of
		Economics; University
		of Ljubljana, Faculty of
		Electrical Engineering,
		Laboratory for
		Telecommunications,
		Social Protection
		Institute of the
		Republic of Slovenia;
		Angela Boškin Faculty
		of Health Care;
		Institute Jožef Stefan;
		University of Maribor
		, , , , , , , , , , , , , , , , , , ,
		Faculty of Electrical
		Engineering and
		Computer Science),
		Anton Trstenjak
		Institute
Other: Service		Telekom Slovenije
provider		
Other: please specify		
	•	

<sup>\*</sup>Regional is not always the same unit (we differentiate statistical regions, regions in health, social care).

### (National, regional, local) ecosystem on SHAFE of the partner

- Research Platform 2020-2030. Consists of researches from Institute of Economic Research, National Institute of Public Health, Social Protection Institute of the Republic of Slovenia with the aim to collaborate in activities to reduce health inequalities and increase wellbeing in Slovenia.
- Scirocco Exchange hub. <a href="https://www.sciroccoexchange.com/">https://www.sciroccoexchange.com/</a> Partners in the project aiming to strengthen bonds in exchanging knowledge in the field of integrated care and scaling up the integrated care.
- International LTC Policy Network (ILPN) <a href="https://www.ilpnetwork.org/">https://www.ilpnetwork.org/</a>. ILPN is a network of researchers, policy-makers and other stakeholders with the aim to promote the global exchange of evidence and knowledge on LTC policy.

### (National, regional, local) funding opportunities on SHAFE

- Slovenian Research agency (<a href="http://www.arrs.si/en/index.asp">http://www.arrs.si/en/index.asp</a>)



- Funds od Ministry of Labour, Family, Social Affairs and Equal Opportunities
- Funds od Ministry of Health
- Funds of municipalities

# 32. Spain

Contributors: Marta Fernandez, Francisco Melero, Begonya Garcia-Zapirain, Lucía González López, Ana Perandrés Gómez.

#### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

A selection of national, regional and local policies (strategies and plan of actions) as well as relevant legislation is shown below:

#### **National**

Strategy of the Spanish Network for Age-friendly Cities and Communities (2012- onwards): The Network was created in 2012 as a result of the Collaboration Agreement between the Institute for Older Persons and Social Services (Imserso) and the Global Network of Age Friendly Cities and Communities (GNAFCC) led by the World Health Organisation (WHO). The members of the network include 197 Spanish cities, which are facilitating the exchange of knowledge and experiences in the creation of age-friendly environments. The most engaged regions are the Basque Country (with 47 cities), Catalonia (with 22 cities), Asturias (with 22 cities) and Cantabria (with 18 cities). The Strategy has 4 phases and follows the GNFCC's methodology, which identifies eight areas of the urban and social environment impacting the life and wellbeing of people.

Age-friendly, accessible and intelligent cities (2014): Proposes a reflection on how to respond to the needs of older people and people with functional diversity in this new city model. It describes some initiatives included in State, European and international networks, technical standardisation activities, forums and workshops. The final annexes provide checklists and indicator systems that help design and evaluate the management of plans, projects and actions in this area.

<u>Strategic Plan of Lifelong Learning (2015)</u>: The goal is to create a society that promotes the lifelong learning of all its citizens, regardless of their starting level, social conditions or age. The plan was designed through the collaboration of education administrations and is open to other administrations and organizations with competencies on lifelong education.

#### Relevant legislation:

- Royal Decree 2171/1994, 4 November, partially amended by Royal Decree 428/1999 of 12 March, on the creation of the State Council of the Elderly: The purpose of this Decree is to create and regulate the State Council of the Elderly, in order to institutionalize the collaboration and participation of the association movement of the elderly in the definition, implementation and monitoring of policies of care, social insertion and quality of life for this sector of the population, in the field of competences conferred on the General Administration of the State.
- ACT 3/2006, 14 December, on the Promotion of Personal Autonomy and Care of Dependent Persons: The purpose of this Act is to regulate the basic conditions that shall guarantee equality in the exercise



of the subjective citizen right to the promotion of personal autonomy and care for dependent persons, according to the terms laid down in legislation, by means of the creation of a System for Autonomy and Care for Dependency, with the collaboration and participation of all of the Public Administrations and the guarantee by the General State Administration of a minimum common content of rights for all citizens in any part of Spanish State territory.

- ACT 27/2011, 1 August, on Updating, Adequacy and Modernization of the Social Security System. The Preamble plans the adoption of a comprehensive employment strategy for older workers. This Strategy should include the most adequate measures to encourage retention of older workers in the labour market and to promote reintegration for those who have lost their jobs when they were already in the last years of their working life. This legal framework also regulates the working conditions of care workers.
- Royal Legislative Decree 1/2013, of November 29, on approving the Consolidated Text of the General
  Law on the rights of people with disabilities and their social inclusion: The purpose of this normative
  framework in the matter of disability is to intervene in the social organization which separates people
  with disabilities from ordinary social life, all with the ultimate objective that they can be participants,
  as active subjects with rights.
- Royal Decree 504/2007, of April 20, which approves the scale of assessment of the dependency situation established by Law 39/2006, of December 14, on the promotion of personal autonomy and care for people in situation of dependency.
- Royal Decree 614/2007, of May 11, on the minimum level of protection of the System for Autonomy and Attention to Dependency guaranteed by the General State Administration.

### Regional

The report focuses on the regions of the Basque Country and Catalonia given their active contribution to the Spanish Network of Age Friendly Cities and Communities.

### The Basque Country

Agenda Nagusi of the Basque Country, Governance Strategy with the Elderly (2019-2022): A model of public-social participation with and for older people living in the Basque Country. Through this model, the community of older people in the Basque Country form part of and share the definition of the problems that affect them, working with public administrations. It also aims to improve the quality of life of non-professional caregivers, emphasizing social co-responsibility, education and awareness of care-related values. 'Agenda Nagusi" has gathered about 400 people through 10 participatory events in different municipalities of the Basque Country, taking into account gender and functional diversity.

### Relevant legislation:

Act 1/2013, 10 October, Lifelong Learning Law: The decree promotes universal and equitable access
to lifelong learning in order to foster social inclusion, create a strong culture of lifelong learning and
improve skills, knowledge and competencies that enhance employability.

This strategy is alligned with the basque strategy of active and healthy ageing (<a href="http://envejecimiento.csic.es/documentos/documentos/ESTRATEGIAVASCA 2015.pdf">http://envejecimiento.csic.es/documentos/documentos/ESTRATEGIAVASCA 2015.pdf</a>) from 2015-2020 leaded by "Matia Technological Institute". This has a close relashionship with the "Health Plan 2013-2020 in



Basque Country- Priority 3 "Healthy Ageing" (https://www.osasun.ejgv.euskadi.eus/r52-publ01/es/contenidos/informacion/publicaciones\_informes\_estudio/es\_pub/adjuntos/plan\_salud\_2013\_2 020.pdf#page=75).

### Catalonia

Strategy for Demographic Change and Ageing (2018-2030): The strategy includes a study and analysis of the ageing process and demographic change in Catalonia, as well as commitment to actions and strategic approaches. The first part presents a study on the dynamics of demographic change and the ageing process in Barcelona, with the aim of investigating the current situation and making demographic projections until 2030. The second part deals specifically with the Strategy for Demographic Change and Ageing, citing its objectives and values, as well as 77 actions divided into four strategic approaches. The third section presents the catalogue of services for senior citizens and the budget, an effort to integrate the various programmes and projects that are already operational, mostly under Barcelona City Council's Area for Social Rights.

<u>Plan of Mobility mHealth.cat (2015):</u> The plan will enable people to access health and welfare services using mobile technologies such as smart phones, tablets and laptops and will contribute to the modernisation of care and social services. A range of clearly accredited and certified apps for the health and social services sector will be developed, together with a secure platform capable of hosting any mobile technology belonging to the Ministry of Health and the Ministry of Social Welfare and Family. Doctors, nurses and social services employees will be able to recommend these services, which will be available to all users of health and social services. This is the first such mHealth strategy in Europe.

#### Relevant legislation

• Decree 31/2014, 11 of March, on the creation of the Council of the Elderly of Catalonia: The purpose of this Decree is to create and regulate the Council of the Elderly of Catalonia which is a collegiate body for the participation and consultation of the elderly, which will be consulted by various public administrations. The creation of the Council of the Elderly of Catalonia promoted intergenerational collaboration and cross-cutting interaction between all bodies and institutions acting as an engineer of the participation of the elderly in the territory, both from civil society as well as from public authorities of municipal or regional scope.

### The Region of Murcia

One of the priorities of the Research and Innovation Strategy for Smart Specialization in the Region of Murcia (RIS3) is related to Health, BioMedicine, and Welfare, addressing, among other fields, housing care and ITC supported social services, specialized care, access to services, and remote assistance. Moreover, the concept of Active and Healthy ageing at home will be one of the main priorities of the forthcoming Regional Strategy of Biomedical Research and Innovation.

Since February 2019, is in force the Decree n.º 7/2019, with which the Regional Government aims at encouraging active ageing of disabed citizens through the continuouse development of physical social and spiritual activities throughout life. This decree creates the Governing Council Commission on Active Ageing of People with Disabilities.

### The Region of Andalusia



The coordination, development and promotion of active policies for older people in Andalusia is carried out by the Directorate General for Older People and Non-contributory Pensions. Specifically, they focus on the management and coordination of Centres and Services, on the management of financial aid, on the performance and evaluation of specific services and programmes related to dependency and the promotion of active ageing, and on the functions related to the authorisations and accreditations of the centres.

Through the Order of 27 October 2020, the Strategic Grants Plan of the Regional Ministry of Health and Families for the period 2020-2022 was approved. Within the framework of the Health Research and Innovation Strategy (July 2018 version) for the Community of Andalusia, "public health research and the generation of solutions to support the promotion of healthy living and active ageing, and in any case linked to health inequality", is established as one of the priorities to be followed. In addition, this region has developed a project (2014-2020) for the creation of the "En Buena Edad" platform, through which a communication portal has been set up between health sector professionals and citizens to promote healthy and active ageing.

\*More legislation at regional level can be found here: https://www.imserso.es/InterPresent1/groups/imserso/documents/binario/guiapresta2013.pdf

#### Local

<u>Madrid Strategy for Older People (2017 to 2021)</u>: The plan includes 5 strategic implementation areas: active ageing and prevention of dependency; older people in vulnerable situations; services and resources for dependent people; socio-sanitary coordination, and a modern, integrated and innovative organization of public services.

<u>Barcelona Age Friendly City Project Plan (2017-2020)</u>: The plan identifies and collects the municipal actions needed to improve the age-friendliness of the city of Barcelona. It includes 339 actions: 31 are action plans or strategic measures, 158 are at local level, 130 at territorial level and 20 are led by other stakeholders.

<u>Valencia</u>, <u>Age Friendly City Report (2016)</u>: It shows the implementation of the Global Age Friendly Cities and Communities project in the Spanish region of Valencia. The plan concludes with a list of practical recommendations to fill the gap in age-friendliness in Valencia.

### Relevant stakeholders and policy makers

	Local	Regional	National
Health	Municipalities (public	Regional Ministries	Ministry of Health;
	health services and	of Health (*those	Ministry of Culture and Sport;
	administration);	CCAA recognized as	Spanish Red Cross;
	Hospitals and health	Reference Sites on	Spanish Society of Geriatrics and
	centres;	the EIP on AHA are	Gerontology
	Care providers;	Valencia, Galicia,	
	NGOs;	Madrid, Andalucía,	



	T	T	
	Private companies	Extremadura,	
		Aragón, and the	
		Basque Country);	
		Fundació TICSALUT	
		(*Reference Site on	
		EIP on AHA with	
		special recognition	
		of excellence);	
		Provincial Councils	
		of Health;	
		Catalan Smart	
		Health Ecosystem,	
		member of the	
		ECHAlliance	
		Let it till direc	
Social	Municipalities	Regional Ministries	Ministry of Social Rights and 2030
	(libraries, community	of Social Affairs	Agenda;
	centres, etc.);	(*those CCAA	Ministry of Equality;
	Home care and	recognized as	Ministry of Inclusion, Social Security
	assistance centres	Reference Sites on	and Migration;
	(e.g. Fundació Roure,	EIP AHA are Basque	Ministry of Culture and Sport;
	etc.);	Country,	Ministry of Justice;
	Associations and	Extremadura, and	The Ombudsman;
	NGOs (e.g. SIENA,	Asturias);	Institute for Older Persons and Social
	Servicios Integrales	Provincial Councils	
	1	of Social affaris;	State Reference Centre for <b>Personal</b> ;
	<b>'</b>	Federation of	
	Envejecimiento		•
	Activo, etc.); Adult day-care	associations of older	` ' <i>"</i>
	·		,
	centres;	etc.);	Organizaciones de Mayores
	Networks of	, ,	(CEOMA);
	volunteers (e.g. AVOL,	Amigos, etc.);	ONCE Foundation for Cooperation and
	Associació de gent	Regional	the Social Inclusion of the Disabled;
	gran voluntària en	Ombudsman	Lares Federation;
	ciència I cultura I		Conferencia Episcopal Española
	àmbit social, etc.);		(Caritas);
	Social enterprises		Derechos y Mayores, Mesa Estatal;
	(e.g. Dignetik, Saluus,		Spanish Network for Age friendly
	etc.);		Cities and Communities;
	Care workers;		Consejo Estatal de Personas Mayores;
	Human Rights centres		Spanish Committee of
	(e.g. <i>Oficina per la No</i>		Representatives of Persons with
	Discriminació);		Disabilities (CERMI);
	<u> </u>		<u> </u>



			Labor unions (CCOO pensionistas, UGT
			Jubilados y Pensionistas, Unión
			Democrática de Pensionistas y
			Jubilados en España)
Built	Municipalities;	Regional Ministries	Ministry of Transports, Mobility and
environment	Private housing	of Environment;	Urban Agenda;
	enterprises;	Provincial Councils	Ministry of Territorial Policy and Civil
	Construction	of Environment;	Service;
	companies;	Spanish Federation	Ministry of Ecological Transitional and
	Social housing	of Municipalities	Demographic Challenge
	organisations;	and Provinces	
	Senior Cohousing		
	associations (e.g.		
	Asociación Jubilares)		
Digitalisation	Municipalities;	Provincial Councils;	Ministry of Economic Affairs and
	IT Companies and		Digital Transformation;
	start ups;		Ministry of Culture and Sport;
	Associations (e.g.		National Centre for Accessibility
	EmancipaTIC)		Technologies (CENTAC)
	Mobile World Capital		
	Barcelona		
Development	Municipalities;	Regional Ministries	Ministry of Labour and Social
	NGOs	of Development;	Economy;
		Provincial Councils of Development	Confederación Estatal de Mayores Activos
		or Development	Activos
Education	Municipalities;	Regional Ministries	Ministry of Education and Vocational
	Adult education	of Education;	Training;
	centres;	Provincial Councils	Ministry of Culture and Sport;
	Schools;	of Education;	Confederación Estatal de Asociaciones
1	Schools; Universities;	of Education; Federation of	
	•	•	Confederación Estatal de Asociaciones
	Universities;	Federation of	Confederación Estatal de Asociaciones y Federaciones de Alumnos y
	Universities;	Federation of Associations (e.g.	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas
	Universities;	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS);
	Universities;	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la Gent Gran de	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS); Seniors Españoles para la Cooperación
	Universities;	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS); Seniors Españoles para la Cooperación
Research	Universities; NGOs	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la Gent Gran de Catalunya (AFOPA))	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS); Seniors Españoles para la Cooperación Técnica (SECOT)
Research	Universities; NGOs Municipalities;	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la Gent Gran de	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS); Seniors Españoles para la Cooperación
Research	Universities; NGOs Municipalities;	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la Gent Gran de Catalunya (AFOPA))  Regional Ministries	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS); Seniors Españoles para la Cooperación Técnica (SECOT)  Ministry of Science and Innovation; SIVI Cluster (Innovative Solutions for
Research	Universities; NGOs  Municipalities; Universities (e.g.	Federation of Associations (e.g. Agrupació d'Aules de Formació Permanent per a la Gent Gran de Catalunya (AFOPA))  Regional Ministries of Science and	Confederación Estatal de Asociaciones y Federaciones de Alumnos y Exalumnos de los Programas Universitarios de Mayores (CAUMAS); Seniors Españoles para la Cooperación Técnica (SECOT)  Ministry of Science and Innovation;



	Foundation for Health	of Science and
	and Ageing UAB,	Innovation
	Fundación Instituto	Universities;
	de Investigación	Basque Research
	Marqués de Valdecilla	and Technology
	IDIVAL;	Alliance (BRITA);
	TECNALIA R&I	Private companies
	Barcelona Institute	(e.g. Telefonica,
	for Global Health	Koa Health)
	ISGlobal; CARTIF	
	Foundation)	
Other: please		
specify		
Other: please		
specify		

<sup>\*</sup>Reference Site on the European Innovation Partnerships on Active and Healthy Ageing (EIP on AHA). See more: <a href="https://ec.europa.eu/eip/ageing/file/3480/download\_en%3Ftoken=1LMgQDvY">https://ec.europa.eu/eip/ageing/file/3480/download\_en%3Ftoken=1LMgQDvY</a>

### (National, regional, local) ecosystem on SHAFE of the partner

Name	Description	Link with RMIT EU
<u>Catalonia</u>	A network led by Fundació TicSalut that will enhance	Worked together on
Smart Health	coordination and collaboration among the regional	various projects
Ecosystem,	government, city councils, companies, funders and	(including European
<u>member</u> of	insurers, health and social care professionals,	research projects) and
<u>the</u>	research/innovation centres and universities,	events. <u>Example</u> .
<b>ECHAlliance</b>	patient/citizen representatives and investors in	
	Catalonia.	
	TicSalut is the org. of the Catalan Department of Health	
	in charge of the deployment of digital innovative	
	solutions and is a Reference Site on the EIP on AHA (with	
	special recognition of excellence).	
<u>Catalan</u>	ICS is the main public health provider in Catalunya, Spain,	Participated together in
<u>Institute</u> of	with more than 40,000 workers.	the submission of
Health (ICS)		European research
		proposals related to
		SHAFE (H2020).
<u>Healthcare</u>	BSA is an integrated private health and social care	Worked on various
<u>Services</u>	organisation with entirely public capital whose unique	events and submissions
<u>Badalona</u>	holder is the City Council of Badalona (in Catalonia). BSA	of European research
(BSA)	is the coordinator of the Badalona Reference Site on the	proposals related to
	EIP on AHA.	SHAFE (H2020)



Barcelona City Council (BCC)	Area of Social Rights, Global Justice, Feminisms and LGTBI  This area includes a program on active ageing and wellbeing, which is responsible for a wide range of services addressing the promotion and social participation of older people as well as the special care of older people in vulnerable situations.  Institut Municipal de Persones amb Discapacitat:  BCC's entity coordinating the direct care services to people with disabilities. It works with the rest of the City Council's departments and entities to extend the concepts of accessibility and inclusion.	Worked together on a EIT Urban Mobility video on the digital exclusion of the elderly in the city's smart transport services.  Participated together in the submission of European research proposals (H2020).
Consorci Sanitari de Terrassa (CST)	The CST is an integrated healthcare organization that, at all levels of care, provides continuous and coordinated care for health services to a population of 200,000.	Participated together in the submission of European research proposals related to SHAFE (H2020).
Barcelona Institute for Global Health (ISGlobal)	ISGlobal provides a hub of excellence dedicated to scientific research and the provision of health care. The Institute, which originated in a joint initiative of the Hospital Clinic de Barcelona and the University of Barcelona, has amassed over 30 years of experience in the field of global health.	Worked together on various events and projects, including the EU won project RECETAS (ISGlobal is the coordinator).
Foundation University Institute for Primary Health Care Research Jordi Gol i Gurina (IDIAPJGol)	The research foundation aims at enhancing clinical research in Primary Care (PC) in Catalonia. It centralizes research and research staff from 286 PC centres in Catalonia; coordinates the RedIAPP (Research Network on Preventive Activities and Health Promotion-Carlos III Health Institute); participates in other research platforms and manages the database of SIDIAP (System for the Development of Research in the PC).	Participated together in the submission of European research proposals related to SHAFE (H2020).
Polytechnic University of Madrid (UPM), Research Group of Life Supporting Technologies (LifeSTech)	UPM is the largest Spanish technological university specializing in all engineering fields and architecture. LifeSTech is UPM's research group devoted to the design, development and evaluation of ICT based services and applications, for the creation and promotion of new ideas, methods and technological solutions throughout the whole value chain of eHealth, Active and Health Ageing and e-Inclusion related organizations.	Participated together in the submission of European research proposals related to SHAFE (H2020).



		T
Foundation for Health and Ageing, Autonomous University of Barcelona  The Open University of Catalonia	A private non-profit foundation that performs research on all aspects of aging, both clinical and social. Some topics of interest are psycho-social aspects (including loneliness and social capital), physical activity, falls, frailty, nutrition, dementia, disability assessment, as well asassistive technologies for the elderly. It is a member of the Spanish Network of Age Friendly Cities.  The Open University of Catalonia is an Internet-centred open university based in Barcelona, Spain. The UOC has two other centres for R&I collaborations: theeLearn Center(eLC) and theeHealth Center(eHC). Research groups linked to UOC departments are specialised in health sciences and technology and communication (among others).	Consortium member of our European research project, RECETAS (Better health and care, economic growth and sustainable health systems)  Participated together in the submission of European research proposals related to SHAFE (H2020).
Barcelona School of Design and Engineering (ELISAVA) TECNALIA Research and Innovation	Founded in 1961, ELISAVA was the first School of Design to be established in Spain. For this reason, the methodological guidelines it has developed have been adopted as a model by other schools. ELISAVA is a pioneer in studies of Design and Engineering.  TECNALIA is a leading Research and Technological Development Centre in Spain, whose mission is to transform technology into GDP to improve people's quality of life, by creating business opportunities for companies. It is a member of BRTA (Basque Research and Technology Alliance).	Participated together in the submission of European research proposals related to SHAFE (H2020).  Worked together on various projects and events on topics related to urban rehabilitation and regeneration (including age-friendly
CARTIF Foundation	CARTIF is a horizontal, private and non-profit research institution, whose main mission is providing innovative solutions to the industry to enhance their processes, systems and products. It is a multidisciplinary centre that works in multiple knowledge fields across many different sectors (including health and environment). CARTIF is a member of the EIP on AHA.	housing)  Participated together in the submission of European research proposals related to SHAFE (H2020).
Vall d'Hebron Hospital Campus	A world-leading healthcare complex, the Hospital has 1400 hospital beds and 6500 qualified employees. As a university hospital there are medical and nursing students. They also host several research centres, laboratories, imaging services and complementary buildings.	Worked together on various projects and events on topics such as value-driven innovation in healthcare or rethinking healthcare for the future (i.e. how design and technology can transform healthcare for an ageing population). Example.



The Hospital	The Hospital Clínic de Barcelona is a public university	Collaborated on
Clinic de	hospital founded in 1906 which belongs to the Catalan	providing work-related
Barcelona	Public Hospital Network (XHUP). Through the practice of	experiences for RMIT
<u> </u>	all medical and surgical areas of specialization, the	students.
	hospital is active in the spheres of healthcare, research	
	and teaching, both directly and through associated	
	companies.	
<u>Fundació</u>	FSJD is a private non-profit research organization whose	Participated together in
Sant Joan de	mission it is to contribute to the improvement of the	the submission of
Deu (FSJD)	health and wellbeing of people by fostering, supporting	European research
	and managing the research and innovation activities of	proposals related to
	Hospital Sant Joan de Deu (HSJD) and other linked	SHAFE (H2020).
	organizations.	
Research	The Research Institute of the Hospital de la Santa Creu i	MoU between RMIT EU
<u>Institute</u> of	Sant Pau (HSCSP-IR) aims at promoting basic, clinical,	and (HSCSP-IR)
the Santa	epidemiological and healthcare research in the health	
Creu and	science and biomedical fields, with the ultimate goal of	
Sant Pau	improving the health of the population. It is University	
<u>Hospital</u>	Research Institute attached to the Autonomous	
	University of Barcelona (UAB).	
<u>Telefónica</u>	Telefonica's Department of eHealth and Digital Business	Participated in an RMIT
	Operations: It is in charge of delivering Digital Health,	EU event on value-based
	Digital Signage, Media Asset Management, Customer	healthcare.
	Experience, Smart Cities, e-Government, Digital	
	Education, Big Data and IoT digital transformation	
	projects to the market.	
Koa Health	A spinoff from Telefonica Alpha's Moonshot factory. Koa	Participated in an RMIT
	Health (formerly known as Telefonica Alpha Health)	EU symposium on
	focuses on behavioural health using AI, digital health and	rethinking healthcare
	patient centred (service) design.	for the future
The Care Lab	The Care Lab is a collaborative platform that applies	Participated in an RMIT
	human-centred design practices to rethink and redesign	EU symposium on
	Care for our societies and systems. Their vision of Care is	rethinking healthcare
	as an equitable, pro-active and compassionate	for the future
	experience that is accessible for all, and that forms an	
	integral part of our everyday life, from birth to death.	

### (National, regional, local) funding opportunities on SHAFE

The following funding opportunities have been identified at national, regional and local level:

### **National**

The Spanish Agency for International Development Cooperation (AECID), in its purpose of contributing to the development of friendly cities with the elderly in Latin America and the Caribbean, grants partial scholarships



for qualified technicians, middle managers, experts and equivalents, in charge of planning, management and financing of social services for the elderly in public and private institutions at local level; political leaders and technical staff of city councils interested in adhering to the Global Network of Age Friendly Cities and Communities, as well as representatives of the elderly.

### Adult education grants

- General grants and financial support in post-compulsory education and non-university higher education: Adults who are enrolled in non-university post-compulsory education programmes are eligible for these grants and general financial support when they are studying: BBA, intermediate or advanced vocational training, professional artistic education or sports education, whether in a mainstream provision or in a specific adult education provision (including part-time provision).
- <u>Grants for post-compulsary university education</u>: Adults can apply for general grants and financial support to pursue university studies in the Spanish university system at Spanish institutions.
- <u>Subsidies for private providers</u>: Private adult education and training, both in-class and distance provisions, is organised by a variety of institutions.
- <u>Publicly-funded private institutions:</u> For compulsory and post-compulsory non-university education, the educational authorities can establish an agreement to allocate public funds to privately owned education institutions.

#### Free courses

 Online free course of the Spanish Network of Age Friendly Cities and Communities, "Cómo ser una ciudad y comunidad amigable con las personas mayores", Imserso

#### Regional

Catalonia: Resolution TES/1097/2020, 19 may: public grants for rent payments for older people.

<u>Valencia</u>: <u>Programa Bono Respiro 2020</u>: The purpose of this program is to offer 3 different types of financial aids for different modalities of temporary or non-permanent stays in nursing homes for elderly people when due to needs that affect the elderly or their family caregivers, the elderly need care in a specialized center that replaces the care that, on a regular basis, are loaned and/or received in the family environment.

# Examples of relevant business models, sustainability means and strategies to address and implement SHAFE

### Initiatives from TICSalut,

(as Reference Site on the EIP on AHA with special recognition of excellence).

- mHealth: refers to the practice of healthcare and welfare activities centred on the individual, with
  the help of mobile devices, patient monitoring sensors and other wireless solutions that serve as
  remote digital assistants which, in turn, can interact with other technologies such as Virtual Reality
  and Artificial Intelligence.
- <u>mConnecta platform</u>: A mobility marketplace to foster welfare through the use of the mobile tech: mobile apps, wearables and medical devices.
- <u>Diacare</u>: The project will provide support and monitoring tools for the optimum follow-up and management of diabetes.



- <u>Strack</u>: To improve the management of a post-stroke a mobile technology-based solution is proposed to create a support digital ecosystem for patients and healthcare professionals.
- <u>Empoc</u>: Technologic solutions to facilitate the management of the Chronic Obstructive Pulmonary Disease (COPD) based on the unsatisfied needs of the patients and health professionals

#### Other initiatives

<u>VinclesBCN</u>: A service offered by Barcelona City Council's Area of Social Rights that uses new technologies to reinforce the social relationships of senior citizens who feel lonely by improving their wellbeing. With VinclesBCN, users can manage their social relationships using a simple tablet or smartphone application as a communication tool. The app allows users to communicate (through text messages, photographs, or video calls) with their families and friends, as well as with other people in VinclesBCN groups.

<u>SeniorLab</u>: Project led by Citilab, Fundació i2cat, University of Barcelona and University of Older People in Cornella to incorporate the innovation capabilities of older people for the design and construction of new technologies.

<u>Remote monitoring of patients</u>: A service provided by Telefonica to allow the control and monitoring of patients with chronic diseases, such as diabetes, heart failure and hypertension, to contribute to a more efficient model of health assistance with fewer costs.

Alella, caring community (Alella poble cuidador): This project wants to create a compassionate community network, which brings together citizens, the City Council and public and private health institutions of Alella. This aims at contributing to increasing the well-being of people with chronic and advanced illnesses, as well as the well-being of their relatives. The project will strengthen the local capabilities in integrated palliative care; create mourning groups; provide specific resources for carers, and carry out awareness-raising and training sessions in schools, social and cultural centres, and workplaces. The project prioritizes older people, people living in loneliness and people and families in vulnerable situations.

<u>People Centered Care Model (PCCM)</u>, <u>SUMAR Project</u>: The goal is to improve the quality of life of older people in residential and day care centres, through the promotion of their personal autonomy, respect for their life project and the humanisation of relations between professionals, users and their families. Under the paradigm of PCC is the discovery of specific new attributes of care services which, until now, had not been taken into account by traditional care models.

AEQUALIS, for improvement in health for elderly people in disadvantages areas through self-care, health literacy and social capital: The AEQUALIS study aims to reduce health inequalities through an intervention that promotes self-care, health literacy and social capital in elderly people living in socio-economically disadvantaged areas. The study is carried out through the 'Feel Good' workshop, aimed at groups of 12 people of 60 years or over who perceive their own health as regular or poor.

<u>Accessible City (La Ciudad Accesible):</u> online search engine specifically related to accessibility that includes four interactive portals and sixteen interactive websites in which users, administration experts and social entities can connect among each other to promote solutions and good practice around universal accessibility and inclusive design.

<u>Cloudy:</u> a digital ecosystem made up of different engines to promote the health and security of the house of older people and dependent people, though a voice interface, Machine Learning and Artificial Intelligence.

<u>Jubilares</u>: model of senior co-housing implemented in Spain.



### 33. Sweden

Contributors: Arianna Poli (Linköping University), Liane Colonna (Stockholm University)

(National, regional, local) policies on Smart Healthy Age-Friendly Environments

**Public Procurement Act**. The national procurement strategy emphasises universal design and accessibility (see for example Chapter 9, Section 2 of the Act). The Act specifically refers to accessibility to people with disability but does not mention age or older people.

Link: <a href="https://www.konkurrensverket.se/globalassets/english/publications-and-decisions/swedish-public-procurement-act.pdf">https://www.konkurrensverket.se/globalassets/english/publications-and-decisions/swedish-public-procurement-act.pdf</a>

### Relevant stakeholders and policy makers

	Local	Regional	National
Health	Municipalities	Swedish	National Board of Health and Welfare
		Association	(Socialstyrelsen)
		of Local	
		Authorities	The Public Health Agency (Folkhälsomyndigheten)
		and	
		Regions	
		(Sveriges	
		Kommuner	
		och	
		Regioner)	
		(SKR)	
Social	Municipalities	Swedish	National Board of Health and Welfare
		Association	(Socialstyrelsen)
		of Local	
		Authorities	The Public Health Agency (Folkhälsomyndigheten)
		and	
		Regions	Swedish Agency for Health Technology Assessment
		(Sveriges	and Assessment of Social Services Statens
		Kommuner	beredning för medicinsk och social utvärdering
		och	(SBU)
		Regioner)	
		(SKR)	The Swedish Agency for Participation (Myndigheten
			för delaktighet)
Built		Swedish	
environment		Association	
		of Local	
		Authorities	
		and	



Digitalisation	Various municipalities	Regions (Sveriges Kommuner och Regioner) (SKR) Various regions	<ul> <li>Myndigheten för digital förvaltning (Agency for Digital Government) - DIGG:         <ul> <li>https://www.digg.se/</li> </ul> </li> <li>E-hälsomyndigheten (Swedish eHealth Agency):         <ul> <li>https://www.ehalsomyndigheten.se/otherlanguages/english/</li> </ul> </li> <li>The Research Institute of Sweden (RISE) https://www.ri.se/en</li> <li>Al Sweden, https://www.ai.se/en</li> </ul>
Development			
Education			
Research			
Other: please specify			
Other: please specify			

### (National, regional, local) ecosystem on SHAFE of the partner: NA

### (National, regional, local) funding opportunities on SHAFE

- FORTE Swedish Research Council for Health, Working Life and Welfare, <a href="https://forte.se/en/">https://forte.se/en/</a>. It funds research projects in the field of health, working life and welfare. It is often possible to include international partners in the proposals, although projects are mostly national. FORTE has both annual open calls and more focused calls on specific themes.
- VR Swedish Research Council, <a href="https://www.vr.se/english">https://www.vr.se/english</a>. Call are listed at <a href="https://www.vr.se/english?sv.target=12.12596ec416eba1fc84514a8&sv.12.12596ec416eba1fc84514a8.route=/&articleType=calls&targetParent=vr\_cards-flex%20vr\_cards-flex-1%20vr\_cards-row&start=6&end=14&calls=Open%20calls&decisions=&subjectArea=all&year=all</a>.
- Vinnova Sweden's innovation authority, <a href="https://www.vinnova.se/">https://www.vinnova.se/</a>
- Familjen Kamprads stiftelse, <a href="https://familjenkampradsstiftelse.se/">https://familjenkampradsstiftelse.se/</a>. Among the areas, it finances projects which deal with increasing quality of life in old age.
- Municipalities finance small research projects that have clear impact at local level on citizens, for example <a href="https://www.norrkoping.se/organisation/ekonomi/norrkopings-fond-for-forskning-och-utveckling">https://www.norrkoping.se/organisation/ekonomi/norrkopings-fond-for-forskning-och-utveckling</a>.



## 34. Switzerland

Contributors: Leonardo Angelini, Alexander Seifert

### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

There are some policies measures to Protect aged people in Switzerland: <a href="https://www.bsv.admin.ch/bsv/de/home/sozialpolitische-themen/alters-und-generationenpolitik/altersfragen.html">https://www.bsv.admin.ch/bsv/de/home/sozialpolitische-themen/alters-und-generationenpolitik/altersfragen.html</a>

There are regional (cantonal) political **age strategies** (e.g., in <u>Fribourg Canton</u>). However, there are no specific national policies to achieve smart healthy age-friendly environments.

### Relevant stakeholders and policy makers

	Local	Regional	National
Health	+Local Health and Care Networks	+	https://www.bag.admin.ch/bag/en/home.html Health Insurances Spitex https://www.spitex.ch/ (Association of all home assistance networks) https://www.curaviva.ch/ (association of all retirement homes) Alzheimer association https://www.alzheimer-schweiz.ch/
Social	Local subsidiaries of Pro Senectute	Local subsidiaries of Pro Senectute	https://www.prosenectute.ch/de.html https://ssr-csa.ch/ (Swiss council of older adults) https://fsr-srv.ch/ Federation of retirees associations
Built environment	Local subsidiaries of Pro Senectute	Local subsidiaries of Pro Senectute	https://www.prosenectute.ch/de.html
Digitalisation	+	+	https://www.bakom.admin.ch/bakom/en/homepage.html
Development	Local subsidiaries of Pro Senectute	Local subsidiaries of Pro Senectute	https://www.prosenectute.ch/de.html



Education	Local universities of third age	+	https://www.uni-3.ch/de/kontakt
Research	SilverHome Senior Lab iHomeLab CCA SUPSI And many other competences centers of age in the different Swiss universities	+	https://www.age-netzwerk.ch/en/ https://www.gerontologie.ch/
Other: please specify			Access for all: <a href="https://www.access-for-all.ch/en/">https://www.access-for-all.ch/en/</a>
Other: please specify			

### (National, regional, local) ecosystem on SHAFE of the partner

Working Group of Gerontechnology in Gerontologie.ch network. Professionals and researchers <a href="https://www.gerontologie.ch/fr/les-g%C3%A9rontechnologies-pour-une-meilleure-qualit%C3%A9-de-vie-des-personnes-%C3%A2g%C3%A9es">https://www.gerontologie.ch/fr/les-g%C3%A9rontechnologies-pour-une-meilleure-qualit%C3%A9-de-vie-des-personnes-%C3%A2g%C3%A9es</a>

### (National, regional, local) funding opportunities on SHAFE

Funding schemes at national level (general scope):

- Swiss National Science Foundation <a href="http://www.snf.ch/en">http://www.snf.ch/en</a> (promoting national and bilateral international projects on all research subjects). <a href="https://www.innosuisse.ch/">https://www.innosuisse.ch/</a> (Applied innovation projects, with and without companies, on all subjects)
- AAL projects <a href="https://www.innosuisse.ch/aal">https://www.innosuisse.ch/aal</a>

Local funding schemes for older adults:

- Leenaards foundation (only in French part) <a href="https://www.leenaards.ch/">https://www.leenaards.ch/</a>
- Age-Stiftung (Only in German part) https://www.age-stiftung.ch/



### 35. Tunisia

Contributor: Prof. Amine HAJ TAIEB

### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

There some policies measures to Protect aged people in Tunisia

- Loi n°94-114 du 31 octobre 1994, relative à la protection des personnes âgées.
- <u>Décret n°96-1016 du 27 mai 1996, fixant les conditions et les modalités de prise en charge par les familles des personnes âgées sans soutien.</u>
- Décret n°96- 1017 du 27 mai 1996, fixant les conditions d'hébergement dans les établissements de protection des personnes âgées.
- <u>Décret n°96-1766 du 30 septembre 1996, fixant les conditions de création des établissements privés</u> de protection des personnes âgées et les modalités de leur fonctionnement.
- <u>Décret n° 96-1767 du 30 septembre 1996, fixant les conditions et le montant de la contribution de la personne âgée ou de sa famille aux frais des services sociaux et sanitaires fournis à domicile.</u>

Some research studies (master degree) for a interactive space using smart textiles for elder people are in progress under supervision of Prof. Amine HAJ TAIEB. The ultimate goal is to develop interactive as materials for architecture, and to do so through the research of design based on a collaborative practice between the designer of the space, the designer textile and material engineer. Our objective in this research topic is to study the means by which the design could be integrated into an interdisciplinary approach, which makes it possible to open up to new disciplines such as the collaboration between space design and textile design. how does the design of retirement homes based on interactive textiles create an adaptive environment for the services of elderly people with dementia? To create a new notion of architecture that of the "adaptive architecture" which responds and reactsto the different requirements of these occupants, especially people with specific needs, such as elderly people with Alzheimer's disease. The means sought by space designers who aim to help olderpeople with dementia, should be built on understanding the needs, expectations and fears while putting the technology in question. Thus the daily life of this rather specific group of users and their entourage vis-à-vis their daily life in specific places such as retirement homes. How does the interaction between interior design and textiles interactive allow the creation of aspace adapted to the service of people with specific needs for adaptive architecture? By studying the sensory effects of textile designs on users, we think we are committing in a new ideabased on combining interactive textiles with the layout of the interior spaces, in order to achieve a new concept of architecture interior called "Snoezelen" this concept, has the power to match perfectly with monitoring the health and therapy of these people while promoting stimulation sensory in space.

### Relevant stakeholders and policy makers

	Local	Regional	National
Health	+	+	+
Social	+	+	+
Built environment	+	+	+
Digitalisation	+	+	+



Development	+	+	+
Education	+	+	+
Research	+	+	+
Other: please specify			
Other: please specify			

(National, regional, local) ecosystem on SHAFE of the partner: NA

(National, regional, local) funding opportunities on SHAFE: NA

# 36. Turkey

Contributors: Nimet Ovayolu and Ozlem Ovayolu and Berrin Benli

### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

Under the Ministry of Family and Social Policies, there is the Department of Elderly Care Services within the General Directorate of Services for the Disabled and the Elderly.

### Relevant stakeholders and policy makers

	Local	Regional	National
Health	Provincial Health	-	Ministry of Health
	Directorate		
Social	Municipality	-	Ministry of Family and
			Social Policies
Built environment	Municipality	-	Ministry of
			Environment and
			Urbanization Policies
Digitalisation	Ministry of Industry	-	TUBITAK (The
	and Technology		Scientific and
			Technological
			Research Council of
			Turkey)
Development	Municipality	-	General Directorate of
			Disabled and Elderly
			Services
Education	Provincial Health	-	Ministry of Health
	Directorate		
Research	Provincial Health	-	Ministry of Health
	Directorate		
Other: please specify	-	-	-
Other: please specify			



### (National, regional, local) ecosystem on SHAFE of the partner

### (National, regional, local) funding opportunities on SHAFE

Monthly payments are made to individuals aged 65 and over by the ministry of family and social policies. Monthly payments are made by the same institution to those who care for elderly people. In addition, municipalities provide free urban transportation for the elderly.

# 37. United Kingdom

Contributor: Hannah Marston

### (National, regional, local) policies on Smart Healthy Age-Friendly Environments

From a UK standpoint at a national level there really is only the Centre for Ageing Better with the 'Communities' section on their website.

There could be other smaller groups doing other research/policy but this is not easily identifiable.

### Relevant stakeholders and policy makers

*In the following domains:* 

	Local	Regional	National
Health			
Social			
Built environment			
Digitalisation	What We Do -	What We Do -	What We Do -
	<u>WaveLength</u>	<u>WaveLength</u>	<u>WaveLength</u>
Development			
Education			
Research			
Other: please specify			
Other: please specify			

From a UK perspective this is not so easy to complete. Across England you have Age UK, but then in towns and cities there are different franchises such as Age Milton Keynes, Age Teesside, Age Gateshead, Age Leeds. For Wales there is Age Cymru, for Scotland there is Age Scotland, and Age NI (Northern Ireland). Each franchise has its own website.

There is the Centre for Ageing Better (CoB) but this organisation tends to focus on specific areas.

There is the Manchester Institute for Collaborative Research on Ageing. This is local to Manchester.

The Togetherness hub

There are additional organisations that could be reached but it has to be directed.

### (National, regional, local) ecosystem on SHAFE of the partner

As far as I am aware there is no direct ecosystem on SHAFE in the UK. Although there are the following:

• Age UK – Age Friendly Communities Guide: <a href="https://www.ageuk.org.uk/our-impact/politics-and-government/age-friendly-communities/">https://www.ageuk.org.uk/our-impact/politics-and-government/age-friendly-communities/</a>



- UK Network of Age-Friendly Communities c/o Centre for Ageing Better with 'eight domains of age-friendly'. Some 40 plus communities listed. Also case studies: <a href="https://www.ageing-better.org.uk/uk-network-age-friendly-communities">https://www.ageing-better.org.uk/uk-network-age-friendly-communities</a>
- The Older People's Commissioner for Wales supports the development of age-friendly initiatives and the Ageing Well in Wales network. Get in touch with David McKinney for more information.
- Scottish Older People's Assembly (SOPA) exists to give a strong voice to older people about their concerns and experience of life in Scotland, including inequalities of age. Through local meetings and a National Assembly with older people and others, SOPA identifies issues that worry the older population and conveys messages from them direct to Scottish and Westminster Governments via meetings with Ministers, civil servants, politicians, academics, the media and the UK Network of Agefriendly Communities. Get in touch with Chair Diana Findley for more information.
- Age Friendly Barnsley and more! <a href="https://www.barnsley.gov.uk/services/community-and-volunteering/age-friendly-barnsley/#:~:text=Age%20Friendly%20is%20a%20concept%20that%20was%20developed,to%20their%20communities%2C%20for%20as%20long%20as%20possible.</a>
- ... other localised local authority and city initiatives come up. The most prominent for me is Manchester see https://www.manchester.gov.uk/agefriendly
- Royal Institute of British Architects Alternative Age-Friendly Handbook: <a href="https://www.architecture.com/knowledge-and-resources/resources-landing-page/age-friendly-handbook">https://www.architecture.com/knowledge-and-resources/resources-landing-page/age-friendly-handbook</a>. This followed a 2018 design guide written by Sophie Handler (a key person with regard to the UK age-friendly agenda).

### (National, regional, local) funding opportunities on SHAFE in your country

Funding opportunities at the moment are all via UKRI and the rules for international partners varies depending on the call. I have provided links to 3 specific councils which sit under UKRI which might be most relevant.

https://www.ukri.org/

https://www.ukri.org/councils/esrc/

https://www.ukri.org/councils/ahrc/

https://www.ukri.org/councils/epsrc/