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²ევროკავშირის კვლევისა და ინოვაციის ჩარჩო პროგრამა 2021 - 2027

#HorizonEU



13 May 2022

Dr. Lela Mirtskhulava – Pillar II Coordinator



July 2021

"With more than €53 billion, the second pillar of Horizon Europe aims to turn the results of our excellent research into innovative solutions to improve citizens daily lives by tackling global challenges. This pillar will be will be key to accelerate the twin green and digital transitions and helps to achieve the UN's Sustainable Development Goals."

Mariya Gabriel Commissioner for Innovation, Research, Culture, Education and Youth

THREE PILLARS FOR IMPLEMENTATION



WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation and spreading excellence

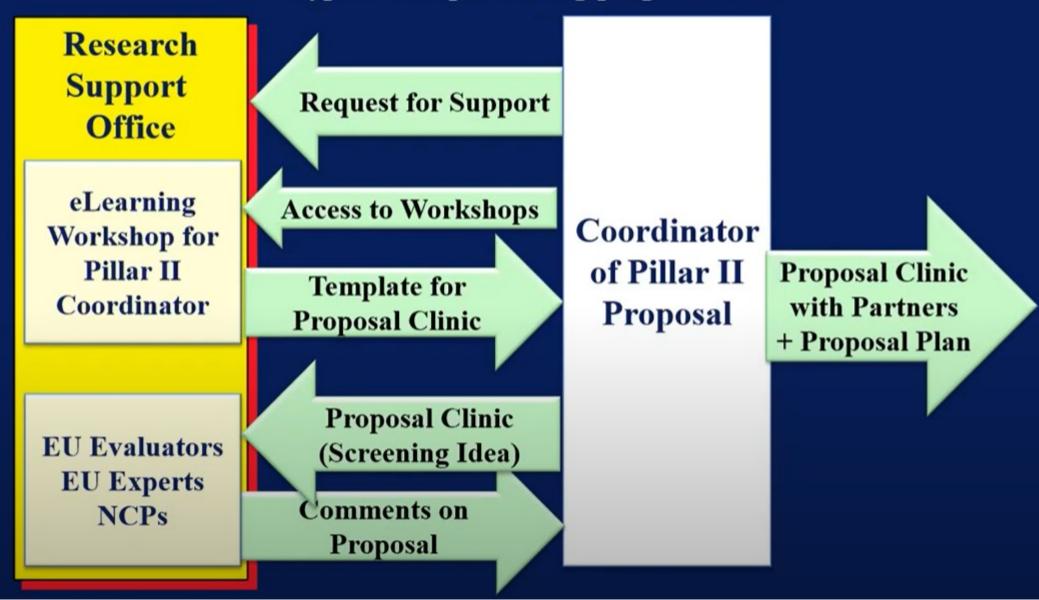
Reforming and Enhancing the European R&I system

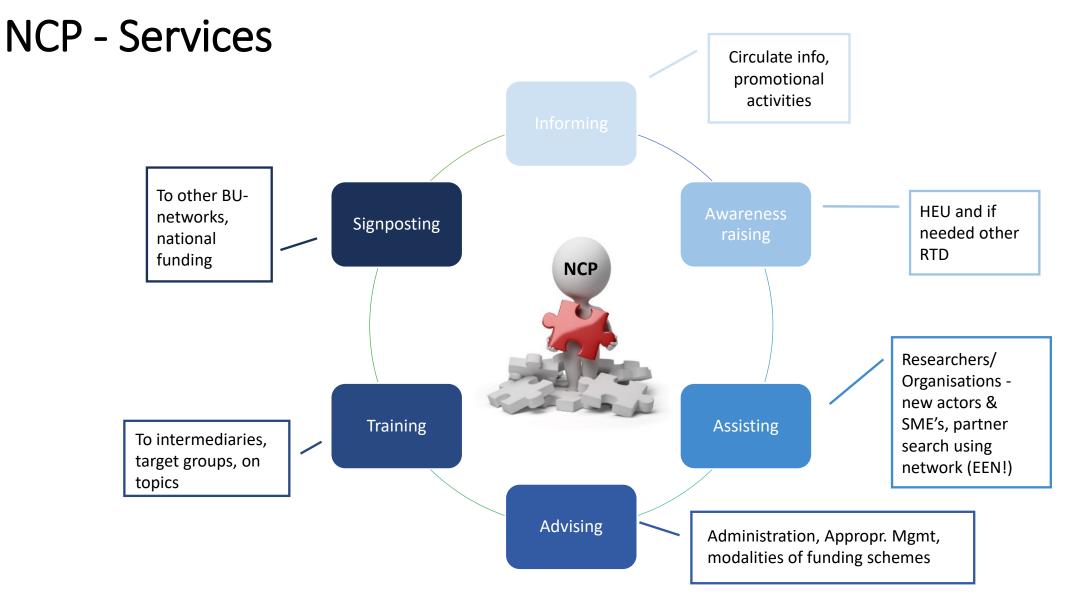
Pillar 2 – Global Challenges and European Industrial Competitivness



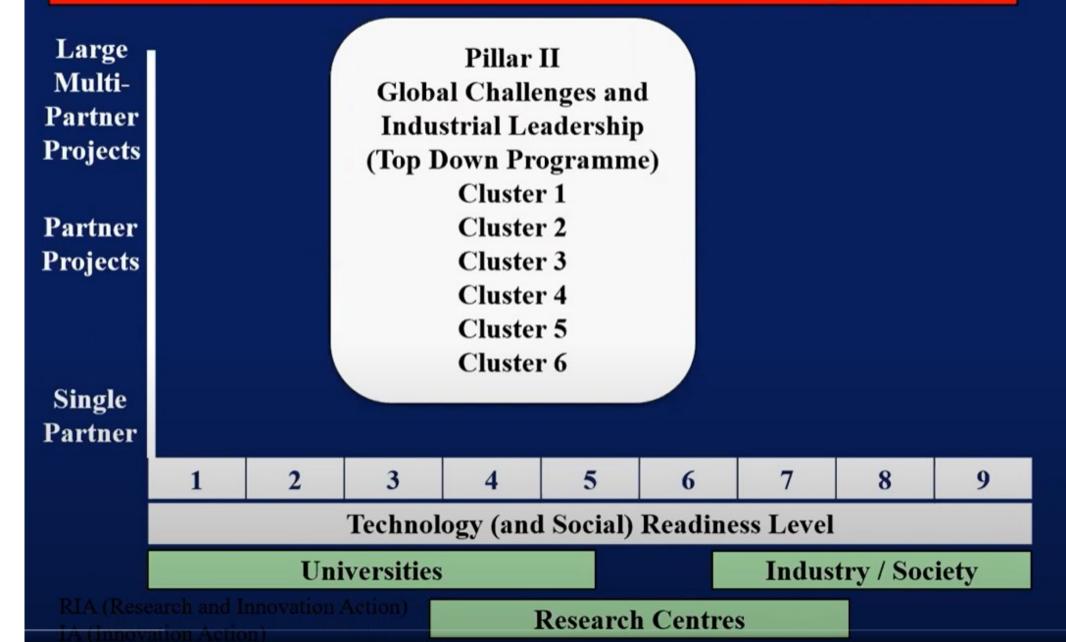
eLearning Workshops for Pillar II Coordinator

www.hyperion.ie/fp9-training-programme.htm

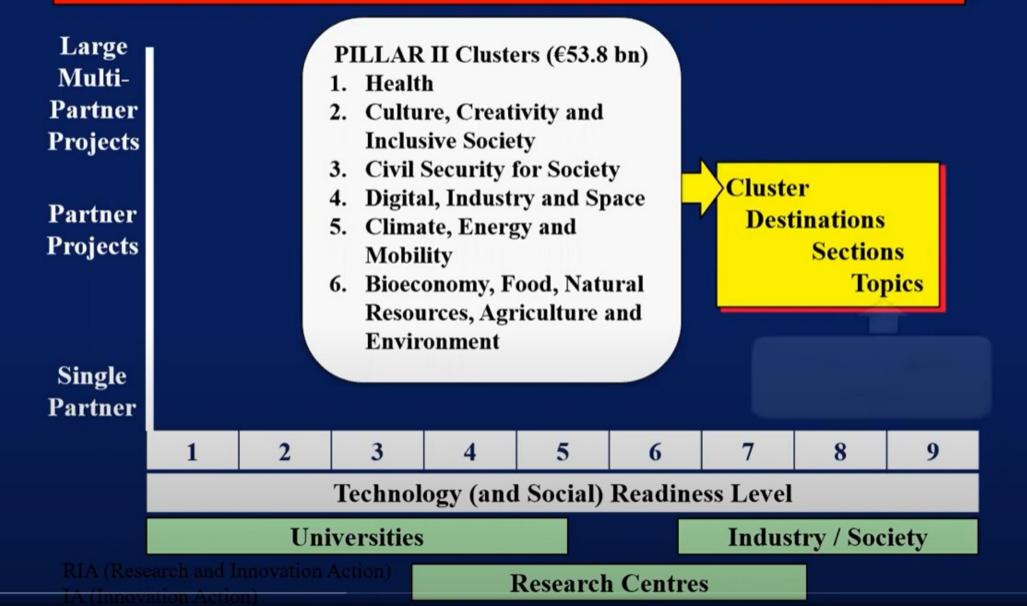




Minimum standards and Guiding principles for setting up systems of National Contact Points (NCP systems) under Horizon Europe (to be published)

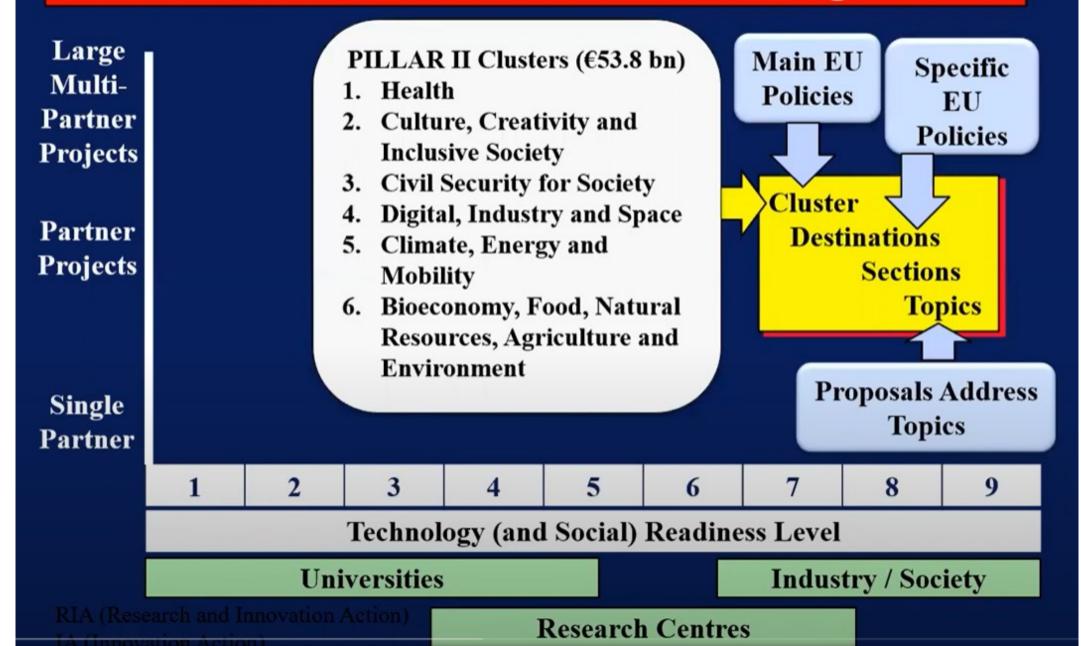


www.hyperion.ie



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1. HEALTH

DESTINATIONS

- 1. Staying healthy in a rapidly changing society
- 2. Living and working in a health promoting environment
- 3. Tackling diseases and reducing disease burdens
- 4. Ensuring access to innovative, sustainable and high quality care
- 5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
- 6. Maintaining an innovative, sustainable and globally competitive health-related industry.

https://ec.europa.eu/research/pdf/horizon-europe/annex-1.pdf Subject to Change as Work Programme evolves

2. CULTURE, CREATIVITY AND INCLUSIVE SOCIETY

DESTINATIONS

- 1. Innovative Research on Democracy and Governance
- 2. Innovative Research on European Cultural Heritage and the Culture and Creative Industries
- 3. Innovative Research on Social and Economic Transformations

https://ec.europa.eu/research/pdf/horizon-europe/annex-2.pdf

Subject to Change as Work Programme evolves

3. CIVIL SECURITY FOR SOCIETY

DESTINATIONS

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- 1. Fight against Crime and Terrorism
- 2. Border Management
- 3. Infrastructure Protection
- 4. Cybersecurity
- 5. A Disaster Resilient Society for Europe
- 6. SSRI (Support for Security Research and Innovation)

https://ec.europa.eu/research/pdf/horizon-europe/annex-3.pdf

Subject to Change as Work Programme evolves

4. DIGITAL, INDUSTRY AND SPACE

DESTINATIONS

- 1. Climate neutral, circular and digitised production
- 2. A digitised, resource-efficient and resilient industry
- 3. World leading data and computing technologies
- 4. Digital and emerging technologies for competitiveness and fit for the Green Deal
- 5. Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data
- 6. A human-centred and ethical development of digital and industrial technologies

https://ec.europa.eu/research/pdf/horizon-europe/annex-4.pdf Subject to Change as Work Programme evolves

5. CLIMATE, ENERGY and MOBILITY

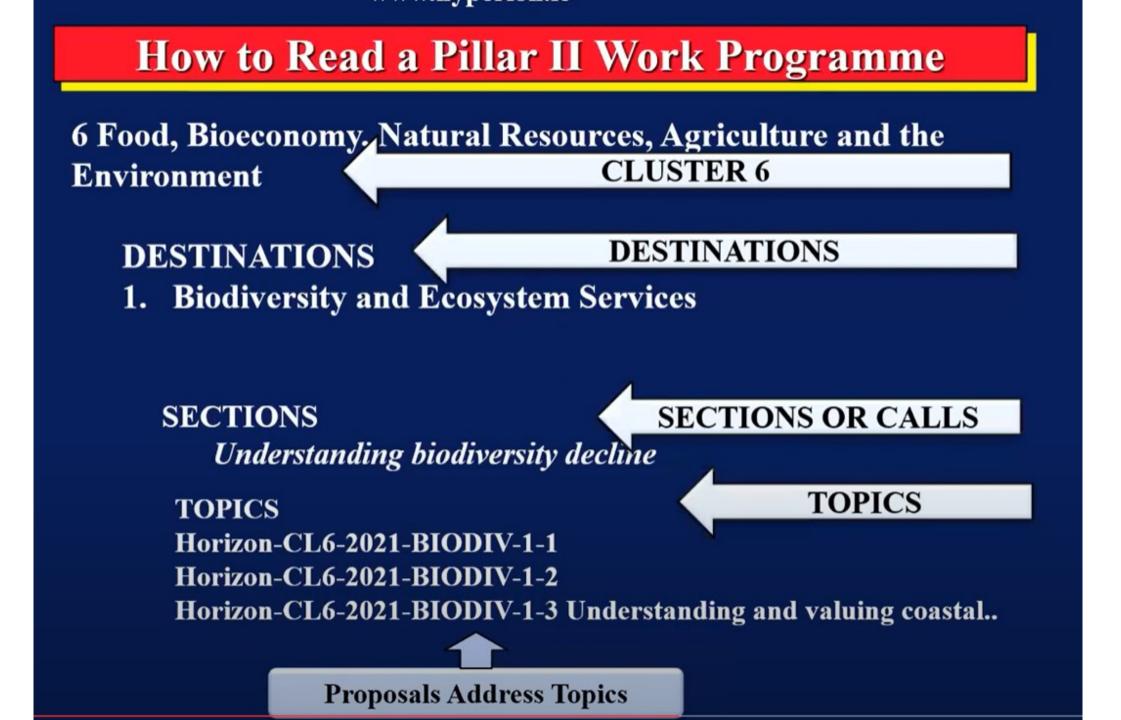
DESTINATIONS

- 1. Climate sciences and responses
- 2. Cross-sectoral solutions (battery value chains, smart cities, decarbonised societies, climate solutions)
- 3. Sustainable, secure and competitive energy supply
- 4. Efficient, sustainable and inclusive energy use
- 5. Clean and competitive solutions for all transport modes (road, rail, aviation, waterborne)
- 6. Safe resilient transport and smart mobility services for passengers and goods

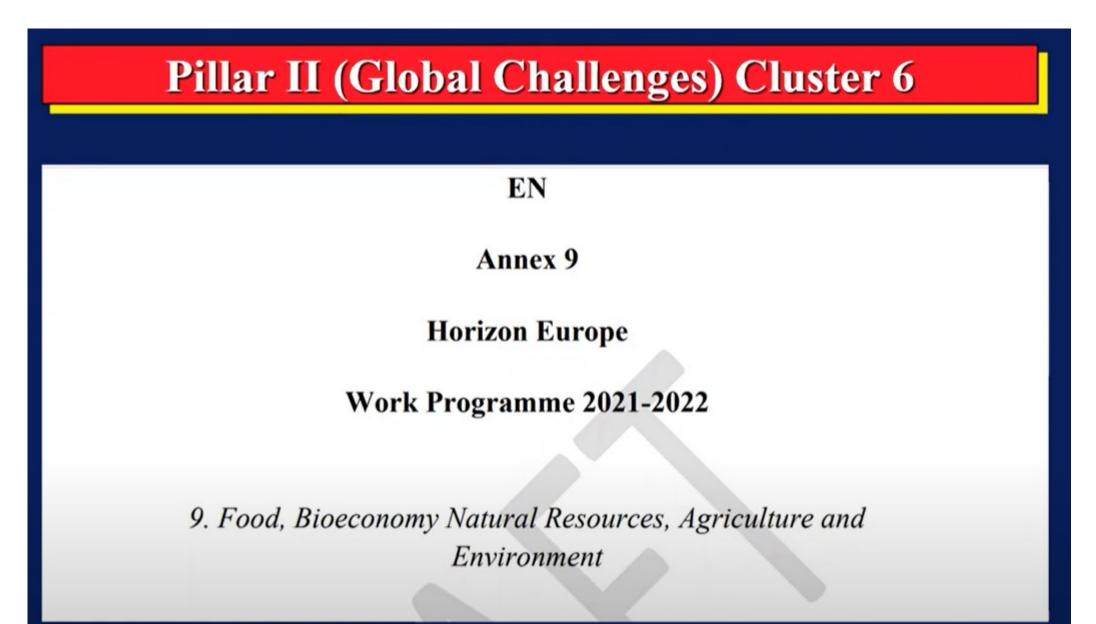
https://ec.europa.eu/research/pdf/horizon-europe/annex-5.pdf Subject to Change as Work Programme evolves

6. BIOECONOMY, FOOD, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT DESTINATIONS

- 1. Biodiversity and ecosystem services
- 2. Fair, healthy and environmentally-friendly food systems from primary production to consumption
- 3. Circular economy and bioeconomy sectors
- 4. Clean environment and zero pollution
- 5. Land, oceans and water for climate action
- 6. Resilient, inclusive, healthy and green rural, coastal and urban communities
- 7. Innovative governance, environmental observations and digital solutions in support of the Green Deal https://ec.europa.eu/research/pdf/horizon-europe/annex-6.pdf Subject to Change as Work Programme evolves



Example of Claster 6



Destination 1 – Biodiversity and Ecosystem Services	20
Call - Biodiversity and Ecosystem Services	25
Conditions for the Call	25
Understanding biodiversity decline	27
HORIZON-CL6-2021-BIODIV-01-01: European participation in global biodiversity	
genomics endeavours aimed at identifying all biodiversity on Earth	.27
HORIZON-CL6-2021-BIODIV-01-02: Data and technologies for the inventory, fast	
identification and monitoring of endangered wildlife and other species groups	29
HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal and marine	
biodiversity and ecosystems services	31
HORIZON-CL6-2021-BIODIV-01-04: Assess and predict integrated impacts of cumulat	ive
direct and indirect stressors on coastal and marine biodiversity, ecosystems and their	
services	35
Valuing and restoring biodiversity and ecosystem services	.38
HORIZON-CL6-2021-BIODIV-01-05: The economics of nature-based solutions: cost-	
benefit analysis, market development and funding	38

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Topic HORIZON-CL6-2021-BIODIV0-01-03

Expected Outcome: In support of the implementation of the Green Deal and the Biodiversity Strategy, successful proposals will contribute to all the following expected outcomes notably to better understand biodiversity decline, its main direct drivers and their interrelations:

- Closing the gap in knowledge and exploration of marine biodiversity at the level of species, the intraspecific/genetic level, ecosystems, functionalities, trophic-interactions and interconnections across temporal and spatial scales;
- New theoretical frameworks of the organisation of marine biotic communities, with key species, from microbiome to megafauna, from benthic to pelagic, especially invertebrates and apex predators, and considering sex segregation determined by environmental parameters, in space and time and the ecosystems processes linking them (energy and biogeochemical cycles, including the role of migratory species behaviour), from deep sea to coastal biotopes including intertidal areas
- Ocean health prediction (including climate change vulnerability), decision making and policy implementation supported by the full integration of ecological with physical and geochemical components in four dimensions (surface, water columns, seafloor, time) into improved global and regional high-resolution models of ecosystems conditions and



Pillar II Mission Board Reports

Mission	Mission Board* Reports (September 2020)
Cancer	Conquering Cancer: Mission Possible
Adaption to Climate Change	<u>A Climate Resilient Europe</u>
Healthy Oceans, Seas, Coastal and Inland Waters	Mission Starfish 2030: Restore our Ocean and Waters
Carbon-Neutral and Smart Cities	100 Climate-Neutral Cities by 2030
Soil Health and Food	Caring for Soil is Caring for Life

"Advise on characteristics of Project Portfolios"

European Partnerships (Health)

	Horizon Europe Partnership	Pillar II Cluster	
1	EU-Africa Global Health	1	
2	Innovative Health Initiative	1	
3	Chemicals Risk Assessment	1,4,6	
4	Pre-Clinical/Clinical Research	1,6	
5	Health Systems in Digital/Ageing	1	
6	Personalised Medicine	1	
7	Rare Diseases	1	
8	One Health AMR		
44	EIT Health	Pillar III	
50	Pandemics		
CP (Co-programmed) CF (Co-Funded) KIC (Knowledge Innovation Community)			

European Partnerships (Digital, Industry and Space)			
	Horizon Europe Partnership	Pillar II	
9	High Performance Computing	4	
10	Key Digital Technologies	1,2,4,5	
11	Smart Networks and Services	1,4,5	
12	AI, Data and Robotics	4	
13	Photonics Europe	1,2,4,5,6	
14	Clean Steel – Low Carbon Steelmaking	1	
15	European Metrology	1,2,4,5,6	
16	Made in Europe	1,5,6	
17	Carbon Neutral and Circular Industry	4,5,6	
18	Global Competitive Space Systems	4	
19	Geological Services for Europe		
CP (Co-programmed) CF (Co-Funded) KIC (Knowledge Innovation Community			

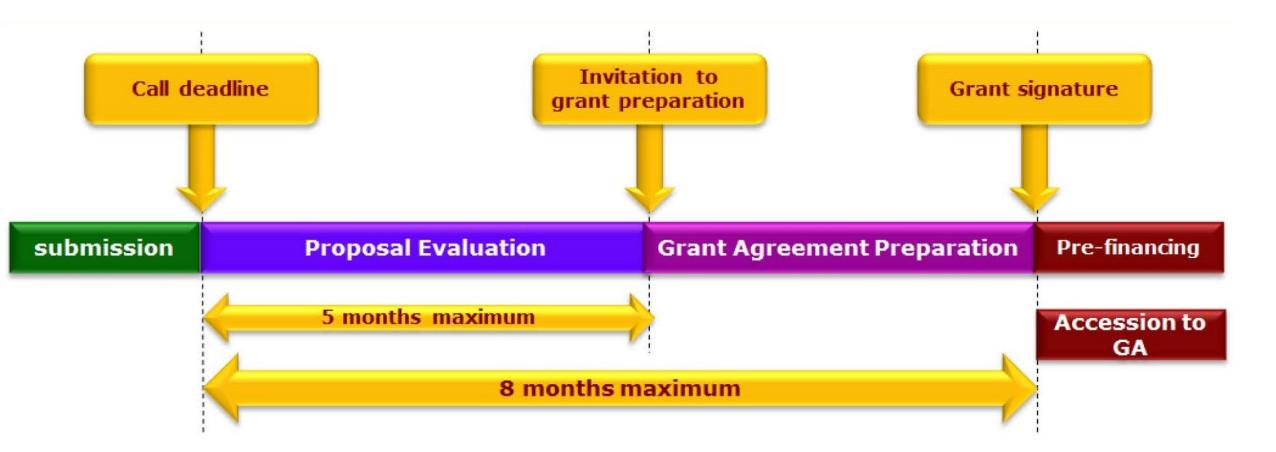
Food, Bioeconomy, Natural Resources, Agriculture and Environment		
	Horizon Europe Partnership	Pillar II
31	Accelerating Farming Systems	1,5,6
32	Animal Health: Fighting Infections Diseases	1,6
33	Environmental Observations Agriculture	4,6
34	Rescuing Biodiversity to safeguard life	1,2,5,6
35	Climate Neutral Blue Economy	1,2,4,5,6
36	Safe and Sustainable Food System	6
37	Circular Bio-Based Europe	4,5,6
38	Water4All	1,2,4,5,6
45	EIT Food	Pillar III

CP (Co-programmed) CF (Co-Funded) KIC (Knowledge Innovation Community)

Cross-cutting issues

- International cooperation
- Social Sciences & Humanities
- Open access & Data management
- Climate action & Sustainable development
- Ethics
- Gender
- SMEs
- ERA-NETs
- Links to regional policy
- Intellectual property
- Innovation procurement

Horizon Europe – Time to Grant (single stage)



Many exceptions: Always consult the work programme and call documents