

# Національний університет біоресурсів і природокористування України



NATIONAL UNIVERSITY OF LIFE  
AND ENVIRONMENTAL SCIENCES  
OF UKRAINE



## Секрет успіху проєктних заявок

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**Калачнюк Лілія Григорівна** - керівник НКП "Харчова безпека, стале сільське господарство, морські дослідження та біоекономіка" робочої програми Горизонт 2020 на базі НУБіП, доктор біологічних наук, професор кафедри біохімії і фізіології тварин, факультет ветеринарної медицини, НУБіП [lilikalachnyuk@gmail.com](mailto:lilikalachnyuk@gmail.com) (<https://nubip.edu.ua/horizon2020>)

Європейська комісія опублікувала короткий посібник з наданими поясненнями окремих важливих деталей програми Горизонт Європа, які доцільно взяти до уваги потенційним заявникам. Цей документ стане корисним у підготовці заявки на проект та пошуку партнерів, а також для кращого розуміння особливостей нової Рамкової Програми ЄС.

Завантажити посібник можна за  
посиланням: <https://cutt.ly/ImVLDUR>

Всі відкриті і майбутні конкурси програми Горизонт Європа: <https://cutt.ly/OnL9IMs>

Входящие - lilkalachnyuk@gmail... x <4D6963726F736F667420576F7... x Horizon Europe

Сервисы Google Филитис Диагност... Home - PubMed - ... М Погода в Украине... 7.2.3. Лактатдегидр... The Merck Veterina... Manual on meat ins... Другие закладки Список для чтения

НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ  
БІОРЕСУРСІВ І ПРИРОДОКОРИСТУВАННЯ  
УКРАЇНИ

УНІВЕРСИТЕТ ВСТУПНИКУ СТУДЕНТУ ІНСТИТУТИ, ФАКУЛЬТЕТИ ВІДОКРЕМЛЕНІ ПІДРОЗДІЛИ

Голова - HORIZON Europe

Про університет  
Підрозділи університету  
Освітня діяльність  
Наукова та інноваційна діяльність  
Міжнародна діяльність  
Вступнику  
Студенту  
Культура і просвіта  
Наукова бібліотека  
Працевлаштування  
Спорт  
Громадські організації

HORIZON Europe  
НУБІП України

Horizon

Новини на  
<https://www.facebook.com/projectCenterofExcellence/>

**ОГОЛОШЕННЯ**

18 листопада з 11:00 до 13:00 за часом Києва відбудеться вебінар "Горизонт Європа. Відкриті конкурси. Досвід та секрет успіху проєктних заявок" (Програма семінару)

Увага! Реєстрація на віртуальну брокерську подію Horizon Europe - Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment", яка відбудеться 27 жовтня 2021, відкрита за посиланням!

Європейська комісія опублікувала короткий посібник з наданими поясненнями окремих важливих деталей програми Горизонт Європа, які доцільно взяти до уваги потенційними заявниками. Цей документ стане корисним у підготовці заявки на проєкт та пошуку партнерів, а також для кращого розуміння особливостей нової Рамкової Програми ЄС. Завантажити посібник можна за посиланням: <https://cutt.ly/lmVLDUR>

Всі відкриті і майбутні конкурси програми Горизонт Європа: <https://cutt.ly/OnL9lMs>

Увага! Реєстрація на віртуальну брокерську подію Horizon Europe - Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment", яка відбудеться 9 липня 2021 р., відкрита до 7 липня 2021 р. за посиланням (<https://he-cluster6.b2match.io/>)

27.05.2021 р. Європейська Комісія проводить інформаційний захід «The Funding & Tenders Portal для початківців»

18 травня з 11:00 до 13:00 за часом Києва відбудеться вебінар "Horizon Europe. Проєкти, співпраця та партнерство" (Додатки: 1, 2, 3, 4)

21 квітня з 11:00 до 13:30 за часом Києва Європейська комісія проводить другий раунд Вебінару на тему "Як підготувати успішний проєкт для програми Горизонт Європа"

Європейська Комісія проводить інформаційний захід «Як підготувати проєктну пропозицію у рамках програми «Горизонт Європа», 24.03.2021 р.: 1, 2

Набір до безкоштовної програми підтримки стартів в агропродовольчій галузі - EIT Food

Входящие - lilkalachnyuk@gmail... x <4D6963726F736F667420576F7... x Презентация PowerPoint x Мій диск - Google Диск x Funding & tenders x

ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/horizon

Сервисы Google Филитис Диагност... Home - PubMed - ... М Погода в Украине... 7.2.3. Лактатдегидр... The Merck Veterina... Manual on meat ins... Другие закладки Список для чтения

European Commission  
Funding & tender opportunities  
Single Electronic Data Interchange Area (SEDIA)

Register Login

SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Horizon Europe (HORIZON)

All documents will be unavailable in the Grants and Audits Management Services, in the Participant Register Services and in 'My Expert Area' on Tuesday, 16.11.2021, between 20:00 and 21:00 CET. Please refrain from launching any document-related process, since these will not work and moreover, will have to be restored by the Service Desk.

Horizon Europe is the ambitious EU research & innovation framework programme for 2021-2027 with a budget of €95.5 billion.

Its overarching goals are:

- to strengthen the EU's scientific and technological bases and the European Research Area (ERA);
- to boost Europe's innovation capacity, competitiveness and jobs;
- to deliver on citizens priorities and sustain our socio-economic model and values.

with a particular focus on creating impact or the European Green Deal, the digital and sustainability transition and recovery from the coronavirus-crisis.

For more information, please see the Horizon Europe web site.

Find calls for proposals in Horizon Europe

Search calls for proposals by keywords, programme parts, ... View (846)

Calls for Tenders are not available when you have selected a programme. See all calls for tenders published by EC

Find call by programme structure

Projects & Results

See the work done in past and ongoing projects. View the statistics on proposals, success rates, funded projects and participants.

Check dashboard

Показать все

Показать все

4°C Smoke 19:53 Бт 16.11.21



## Цитовано

[https://ec.europa.eu/info/sites/default/files/research\\_and\\_innovation/strategy\\_on\\_research\\_and\\_innovation/presentations/horizon\\_europe/ec\\_rtd\\_he-investing-to-shape-our-future.pdf](https://ec.europa.eu/info/sites/default/files/research_and_innovation/strategy_on_research_and_innovation/presentations/horizon_europe/ec_rtd_he-investing-to-shape-our-future.pdf)



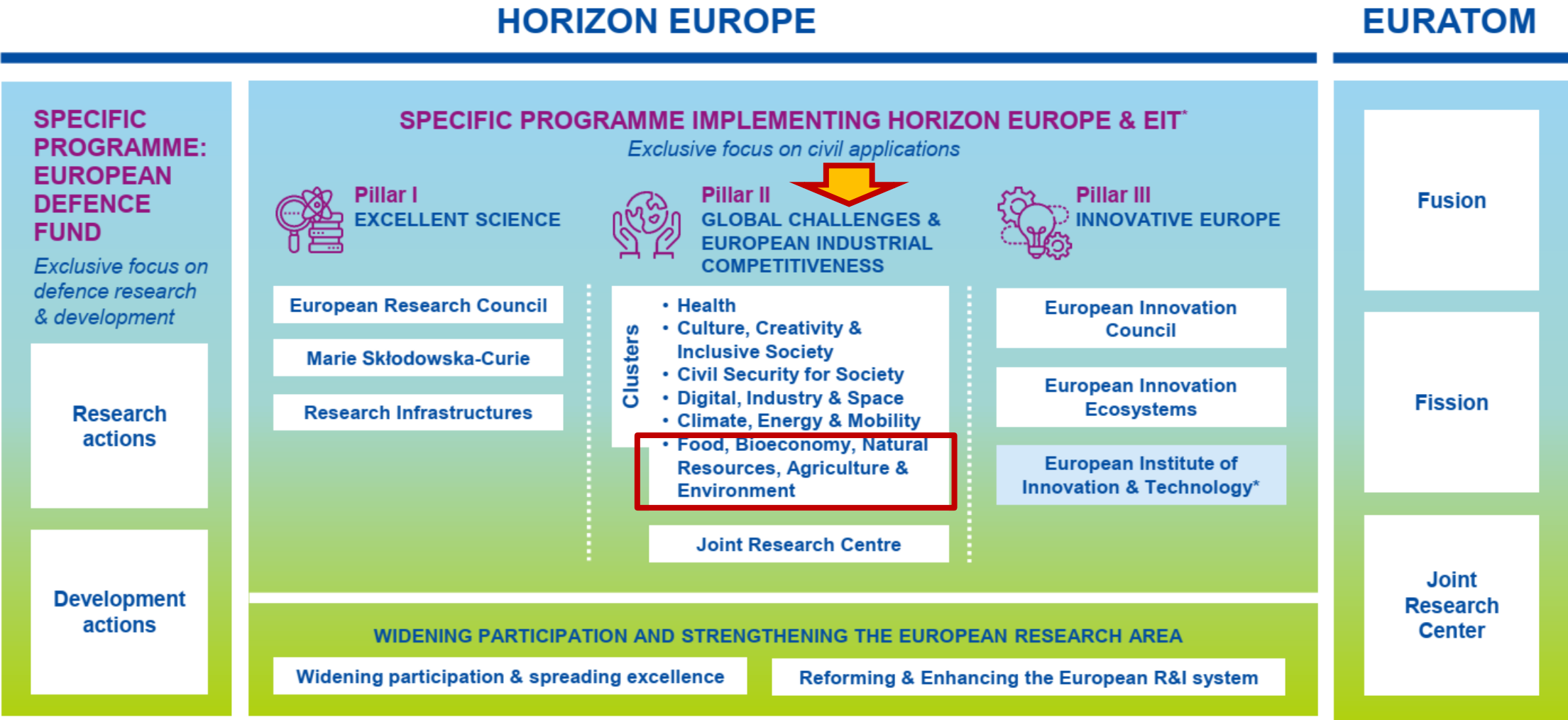
## Нові елементи в Horizon Europe

Європейська інноваційна рада: Підтримка інновацій з потенційним проривом та руйнівним характером з потенціалом розширення, що може бути надто ризикованим для приватних інвесторів. Це 70% бюджету, призначеного для МСП.

Місії: Комплекс заходів для досягнення сміливих, надихаючих та вимірюваних цілей у встановлені терміни. У складі Horizon Europe є 5 основних місій.

Політика відкритої науки: Обов'язковий відкритий доступ до публікацій та принципи відкритої науки застосовуються у всій програмі Інформаційний бюлетень:

Відкрита наука в Horizon Europe. Новий підхід до партнерства: цільове та більш амбітне партнерство з промисловістю на підтримку цілей політики ЄС



\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

# Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



Create more impact through mission-orientation and citizens' involvement



Rationalise partnerships' landscape



Reinforce openness



Strengthen international cooperation



Encourage participation



# Key Novelties

in Horizon Europe

European Innovation Council

EU Missions

New approach to partnerships

Open science policy

Extended association possibilities

Spreading Excellence



# Five Missions Areas



Adaptation to  
climate change,  
including societal  
transformation



Cancer



Healthy oceans,  
seas, coastal &  
inland waters



Climate-neutral  
& smart cities



Soil health &  
food

# Overview of 49 candidate European Partnerships

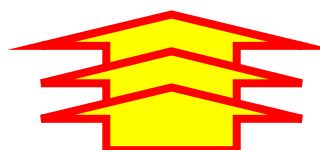
## HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

- Institutionalised Partnerships (Art 185/7)
- Institutionalised Partnerships / EIT KICs
- Co-Programmed
- Co-Funded



\* Calls with opening dates in 2023-24  
 \*\* Calls with opening dates not before 2022



## PILLAR III - Innovative Europe

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

## CROSS-PILLARS II & III

European Open Science Cloud
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# International Cooperation

## International Cooperation

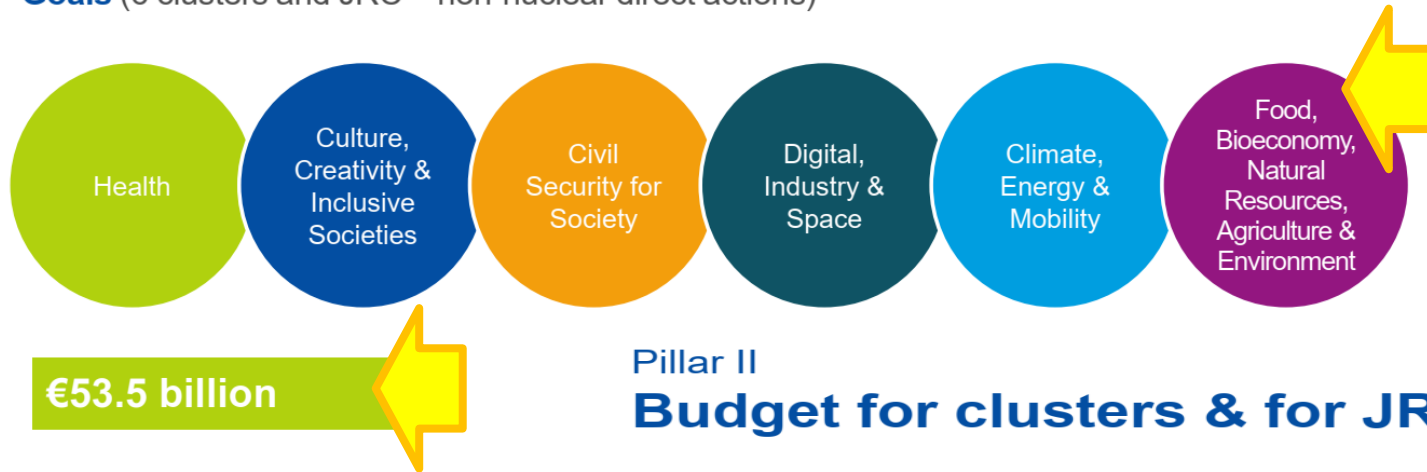
Tackling together global societal challenges; access to the world's best talents, expertise and resources; enhanced supply and demand of innovative solutions

## Association to Horizon Europe

- Third countries with good capacity in science, technology and innovation
- Taking into account objective of driving economic growth in Europe through innovation
- Intensified targeted actions
- Strengthened support to multilateral cooperation
- Openness to international participation balanced with the promotion of EU strategic autonomy

# GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS:

boosting **key technologies** and solutions underpinning **EU policies & Sustainable Development Goals** (6 clusters and JRC – non-nuclear direct actions)



## Pillar II Budget for clusters & for JRC

<i>in current prices</i>		
<b>Cluster 1</b>	<b>Health</b>	<b>€8.246 billion</b> (including €1.35 billion from NGEU)
<b>Cluster 2</b>	<b>Culture, Creativity &amp; Inclusive Societies</b>	<b>€2.280 billion</b>
<b>Cluster 3</b>	<b>Civil Security for Society</b>	<b>€1.596 billion</b>
<b>Cluster 4</b>	<b>Digital, Industry &amp; Space</b>	<b>€15.349 billion</b> (including €1.35 billion from NGEU)
<b>Cluster 5</b>	<b>Climate, Energy &amp; Mobility</b>	<b>€15.123 billion</b> (including €1.35 billion from NGEU)
<b>Cluster 6</b>	<b>Food, Bioeconomy, Natural Resources, Agriculture &amp; Environment</b>	<b>€8.952 billion</b>
	<b>JRC (non-nuclear direct actions)</b>	<b>€1.970 billion</b>

Clusters are including a budget for Partnerships and Missions  
NGEU is Next Generation EU programme – Recovery Fund

## Horizon Europe Cluster 6

Food, Bioeconomy, Natural Resources and Environment  
with 7 'Destinations'

**Destination 1:** Biodiversity and Ecosystem Services

**Destination 2:** Fair, healthy and environmentally-friendly food systems from primary production to consumption

**Destination 3:** Circular economy and bioeconomy sectors

**Destination 4:** Clean environment and zero pollution

**Destination 5:** Land, oceans and water for climate action

**Destination 6:** Resilient, inclusive, healthy and green rural, coastal and urban communities

**Destination 7:** Innovative governance, environmental observations and digital solutions in support of the Green Deal



- Farm to Fork Strategy: [https://ec.europa.eu/food/farm2fork\\_en](https://ec.europa.eu/food/farm2fork_en)
- EU Biodiversity Strategy for 2030 - Bringing nature back into our lives
- [EU Bioeconomy strategy](#)
- [Circular Economy Action Plan](#)
- [Towards zero pollution in air, water and soil – EU action plan](#)

*Цитовано за даними:*

The National Centre  
for Research and Development  
47a Nowogrodzka Str.  
00-695, Warsaw, Poland  
e-mail: [sekretariat@ncbr.gov.pl](mailto:sekretariat@ncbr.gov.pl)  
ncbr.gov.pl



## Four partnerships to be introduced in WP 2023-2024

Accelerating farming systems  
transition: agro-ecology living labs  
and research infrastructures

- co-funded European Partnership

Animals and health

- co-funded European Partnership

Agriculture of data

- co-funded European Partnership

Safe and Sustainable Food Systems

- co-funded European Partnership



[https://ec.europa.eu/info/research-and-innovation/research-area/environment/bioeconomy/bioeconomy-strategy\\_en](https://ec.europa.eu/info/research-and-innovation/research-area/environment/bioeconomy/bioeconomy-strategy_en)  
[https://ec.europa.eu/environment/pdf/circular-economy/new\\_circular\\_economy\\_action\\_plan.pdf](https://ec.europa.eu/environment/pdf/circular-economy/new_circular_economy_action_plan.pdf)  
[https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12588-Towards-zero-pollution-in-air-water-and-soil-EU-action-plan\\_en](https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12588-Towards-zero-pollution-in-air-water-and-soil-EU-action-plan_en)





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*Horizon Europe - Work Programme 2021-2022*  
*Food, Bioeconomy, Natural Resources, Agriculture and Environment*

1

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Conditions for the Call

Indicative budget(s)<sup>173</sup>

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million) <sup>174</sup>	Number of projects expected to be funded
Opening: 28 Oct 2021 Deadline(s): 15 Feb 2022				
HORIZON-CL6-2022-FARM2FORK-01-01	RIA	7.00	Around 7.00	1
HORIZON-CL6-2022-FARM2FORK-01-02	RIA	6.00	Around 6.00	1
HORIZON-CL6-2022-FARM2FORK-01-03	RIA	10.00	Around 5.00	2
HORIZON-CL6-2022-FARM2FORK-01-04	IA	8.00	Around 4.00	2
HORIZON-CL6-2022-FARM2FORK-01-05	RIA	10.00	Around 5.00	2
HORIZON-CL6-2022-FARM2FORK-01-06	RIA	12.00	Around 6.00	2
HORIZON-CL6-2022-FARM2FORK-01-07	IA	12.00	Around 12.00	1
HORIZON-CL6-2022-FARM2FORK-01-08	RIA	14.00	Around 7.00	2
HORIZON-CL6-2022-FARM2FORK-01-09	RIA	10.00	Around 5.00	2
HORIZON-CL6-2022-FARM2FORK-01-10	RIA	11.00	Around 11.00	1
HORIZON-CL6-2022-FARM2FORK-01-11	RIA	10.00	Around 10.00	1
HORIZON-CL6-2022-FARM2FORK-01-12	RIA	28.00	Around 7.00	4

*Horizon Europe - Work Programme 2021-2022  
Food, Bioeconomy, Natural Resources, Agriculture and Environment*

HORIZON-CL6-2022-FARM2FORK-01-13	RIA	11.00	Around 11.00	1
HORIZON-CL6-2022-FARM2FORK-01-14	RIA	12.00	Around 6.00	2
HORIZON-CL6-2022-FARM2FORK-01-15	CSA	3.00	Around 3.00	1
Overall indicative budget		164.00		

## RIA – Research and Innovation Actions

## IA – Innovation Actions

## CSA – Coordination and Support Action

### **HORIZON-CL6-2022-FARM2FORK-01-03: Enhancing biosecurity in terrestrial livestock production**

Expected Outcome: In line with the ‘farm to fork’ strategy for a transition to fair, healthy and resilient livestock production systems, including the reduction of anti-microbial usage, a successful proposal will support research and innovation (R&I) in helping policy makers and economic operators to prevent and control infectious animal diseases, thus contributing to sustainable agriculture and to public health. The project results are expected to contribute to all of the following outcomes:

- improving the capacity of policy makers, members of the veterinary profession, business operators and other relevant actors to prioritise and implement biosecurity measures in different production systems on farms and other places where animals are handled;
- gaining a better understanding of the costs and efficiency of certain biosecurity measures.

## **HORIZON-CL6-2022-FARM2FORK-01-04: Innovative solutions to prevent adulteration of food bearing quality labels: focus on organic food and geographical indications**

Expected Outcome: The farm to fork strategy aims to accelerate the transition to sustainable farming and food systems by, *inter alia*, promoting the growth of organic farming with a view to achieve the target of at least 25% of the EU's agricultural land under organic farming by 2030. Moreover, the strategy envisages the strengthening of *geographical indications (GIs)*, by including specific sustainability criteria, where appropriate. One of the strategy's main priorities is to combat food fraud along the food supply chain. The successful proposals should therefore contribute to preventing food fraud of products with quality labels, in particular organic and GIs. In this way, they should facilitate progress towards the strategy's challenging target for organic farming and strengthen the GIs scheme.

Projects results are expected to contribute to all of the following expected outcomes:

- a wider use of new and improved tools and field-deployable methods and approaches for rapid and cost-effective verification of claims related to food products of plant and animal origin with quality labels, in particular organic and GIs; unlocked potential of new technologies and other innovative approaches (e.g., business models) fit for farmers and food businesses (especially small-scale farmers and small and medium-sized enterprise (SMEs)) as well as policymakers, which cost-effectively enable traceability and transparency along the supply chains of quality labelled food, in particular those with organic and GIs labels;
- improved functioning and effectiveness of the control systems in Member States and Associated Countries and the EU's legislative framework for organic and GI food products;
- increased data availability, interoperability and use, and improved analytical capacity for enhanced traceability and transparency along the supply chains of quality labelled food, in particular organic and GIs;
- well-informed decision-making by farmers, food businesses and policymakers to improve climate, environmental, economic and social sustainability along the supply chains of quality labelled food, in particular organic and GIs.

### **HORIZON-CL6-2022-FARM2FORK-01-07: Building alternative protein-friendly sustainable and healthy food environments**

Expected Outcome: In line with the European Green Deal priorities, the farm to fork strategy for a fair, healthy and environmentally friendly food system, and the EU's climate ambition for 2030 and 2050, the successful proposal will support R&I to promote the production, provision and consumption of alternative sources of proteins as well as dietary shifts towards sustainable healthy nutrition. This will contribute to transforming food systems so that they can deliver co-benefits for climate (mitigation and adaptation), biodiversity, environmental sustainability and circularity, dietary shifts, sustainable healthy nutrition and safe food, food poverty reduction and empowerment of communities, and thriving businesses.

### **HORIZON-CL6-2022-FARM2FORK-01-08: Research and innovation for food losses and waste prevention and reduction through harmonised measurement and monitoring**

Expected Outcome: In line with the European Green Deal priorities, and in particular the farm to fork strategy for a fair healthy and environmentally friendly food system, as well as with the EU's climate objectives, the successful proposals should support prevention and reduction of food losses and waste. They should therefore contribute to creating sustainable, healthy and inclusive food systems that deliver co-benefits for climate mitigation and adaptation, biodiversity, environmental sustainability and circularity, sustainable healthy nutrition and safe food consumption, food poverty reduction and empowerment of communities, and thriving businesses.



#### **HORIZON-CL6-2022-FARM2FORK-01-09: Microbiomes in food production systems**

Expected Outcome: The successful proposal will be in line with the European Green Deal priorities and the farm to fork strategy for a fair healthy and environmentally friendly food system, as well as with the EU's Climate ambition for 2030 and 2050. It will support R&I to foster advances in microbiome-related research for more sustainable agricultural food production. This in turn will contribute to the transformation of food systems to deliver cobenefits for climate (mitigation and adaptation), biodiversity, environmental sustainability and circularity, dietary shift, sustainable healthy nutrition and safe food, food poverty reduction and empowerment of communities, and thriving businesses.

#### **HORIZON-CL6-2022-FARM2FORK-01-10: Integrated surveillance system to prevent and reduce diet-related non communicable diseases (NCDs)**

Expected Outcome: In line with the European Green Deal priorities and the farm to fork strategy for a fair, healthy and environmentally friendly food system, as well as with the EU's climate ambition for 2030 and 2050, the successful proposal will support R&I aiming to reduce diet-related non-communicable diseases (NCDs). It will contribute to the transformation of food systems to deliver co-benefits for climate (mitigation and adaptation), environmental sustainability and circularity, dietary shifts, sustainable healthy nutrition and safe food, food poverty reduction and empowerment of communities, and thriving businesses.

#### **HORIZON-CL6-2022-FARM2FORK-01-11: Effective systems for authenticity and traceability in the food system**

Expected Outcome: In line with the European Green Deal priorities and the farm to fork strategy for a fair, healthy and environmentally friendly food system, the successful proposal will support R&I in improving traceability and combating food fraud along the food supply chain. It will contribute to the transformation of food systems to deliver co-benefits for climate (mitigation and adaptation), environmental sustainability and circularity, dietary shifts, sustainable healthy nutrition and safe food, food poverty reduction and empowerment of communities, and thriving businesses.



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## Conditions for the Call

### Indicative budget(s)<sup>184</sup>

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million) <sup>185</sup>	Number of projects expected to be funded
		2022		
Opening: 28 Oct 2021				
Deadline(s): 15 Feb 2022 (First Stage), 06 Sep 2022 (Second Stage)				
HORIZON-CL6-2022-FARM2FORK-02-01-two-stage	RIA	14.50	Around 5.00	3
HORIZON-CL6-2022-FARM2FORK-02-02-two-stage	RIA	7.00	Around 7.00	1
HORIZON-CL6-2022-FARM2FORK-02-03-two-stage	RIA	12.00	Around 6.00	2
HORIZON-CL6-2022-FARM2FORK-02-04-	IA	15.00	Around	3
two-stage			5.00	
HORIZON-CL6-2022-FARM2FORK-02-05-two-stage	IA	18.00	Around 6.00	3
Overall indicative budget		66.50		

## **HORIZON-CL6-2022-FARM2FORK-02-01-two-stage: Agroecological approaches for sustainable weed management**

Expected Outcome: A successful proposal should support the farm to fork's strategy objective of a transition to a fair, healthy and resilient European agriculture, notably its objective to promote agroecology, and the target to reduce the overall use and risk of chemical pesticides, by unfolding the potential of agroecology to provide alternative weeding strategies that reduce or eliminate the use of pesticides used as herbicides. This will support the transition to sustainable, safe, productive, climate-neutral and resilient farming systems that minimise the pressure on ecosystems while ensuring fair economic returns for farmers.

## **HORIZON-CL6-2022-FARM2FORK-02-04-two-stage: Smart solutions for the use of digital technologies for small- and medium-sized, farms and farm structures**

Expected Outcome: In line with the farm to fork strategy and the Headline ambitions of a Digital Age and Economy that works for people, leaving no one behind, and the biodiversity strategy, the successful proposals will support the development of small- and medium sized farms to benefit from digital technologies and strengthen their capacities to their effective and efficient deployment. Projects will therefore contribute to the development of sustainable, productive and climate-neutral and resilient farming systems providing consumers with affordable, safe, healthy and sustainable food, minimising pressure on ecosystems, improving public health and generating fair economic returns for farmers through the development of smart solutions for the use of digital technologies for small- and medium-sized, farms and farm structures.

## **HORIZON-CL6-2022-FARM2FORK-02-05-two-stage: Innovative food from marine and freshwater ecosystems**

Expected Outcome: In line with the European Green Deal objectives, the farm to fork strategy for a fair healthy and environmentally friendly food system, the EU bioeconomy strategy and blue growth strategy, the successful proposal will support environmentally friendly, inclusive, safe and healthy seafood production through innovation in the supply chain.

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