

Horizon Europe and the Green Deal Challenges

Europe Agenda Investing to Shape our Future



Vanya Simeonova WUR

FACTS AND FIGURES ABOUT EU-UKRAINE RELATIONS



- Ukraine is a priority partner for the European Union
 - EU supports Ukraine in ensuring prosperous and democratic future
 - Association Agreement with EU signed in 2014
 - Since 2014 €15 billion in grants and loans to support reforms
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- Ukraine - largest beneficiaries of the Erasmus+ in the Eastern Partnership area
 - EU €53 million for modernization of vocational education and training system and displaced universities in eastern Ukraine
 - Ukraine participates in Horizon 2020, the Euratom Research and Training programme and signed the Copernicus Cooperation Arrangement.
 - Ukraine received Horizon 2020 grants of total €36.11 million.

FACTS AND FIGURES ABOUT EU-UKRAINE RELATIONS



Ukraine joins Horizon Europe and Euratom Research and Training Programme

Openness and cooperation with the rest of the world are key in our strategy to create critical mass for research and innovation and to accelerate and find solutions to pressing global challenges. Under Horizon 2020, Ukrainian participants received more than €45 million in EU support and showed innovation leadership and excellence across fields such as researchers' mobility, transport and energy. I am confident Ukraine will build on these past successes



With Horizon Europe, we step up our ambition for a sustainable future. The programme will maximise its impact by strengthening our scientific and technological bases, boosting our innovation capacity, driving the green and digital transitions and supporting an inclusive recovery.

Mariya Gabriel

Commissioner for Innovation, Research, Culture, Education & Youth



THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027



Research
and
Innovation

Framework Programme for Research & Innovation



Horizon 2020

2014-2020

€ 70 billion



Horizon Europe

2021-2027

€ 95,5 billion

About Horizon Europe



fuel EU's **scientific and technological excellence** and the strengthen the European Research Area (ERA)

**Science
& technology**



tackle policy priorities, including **green and digital transitions** and Sustainable Development Goals

Society



boost Europe's **innovation uptake, competitiveness and jobs**

Economy

HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

*Exclusive focus on
defence research
& development*

Research
actions

Development
actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



Pillar III INNOVATIVE EUROPE

European Innovation
Council

European innovation
ecosystems

European Institute of
Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

Fusion

Fission

Joint
Research
Center

WUR domains in Horizon Europe

Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie
Actions

Research Infrastructures

Pillar 2

Global Challenges and
European Industrial
Competitiveness

Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

Pillar 3

Innovative Europe

European Innovation Council

European innovation
ecosystems

European Institute of
Innovation
and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system

Pillar II - Clusters

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS:

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



€53.5 billion



Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	€8.952 billion

Pillar 2 Global Challenges

Cluster 5 Climate Energy Mobility

- **D1 Climate sciences and responses**
- **D2 Cross-sectoral solutions for the climate**
- **D3 Sustainable, secure and competitive energy supply**
- **D4 Efficient, sustainable and inclusive energy use**
- **D5 Clean, competitive solutions for transport modes**
- **D6 Safe Resilient Transport and Smart Mobility services for passengers and goods**

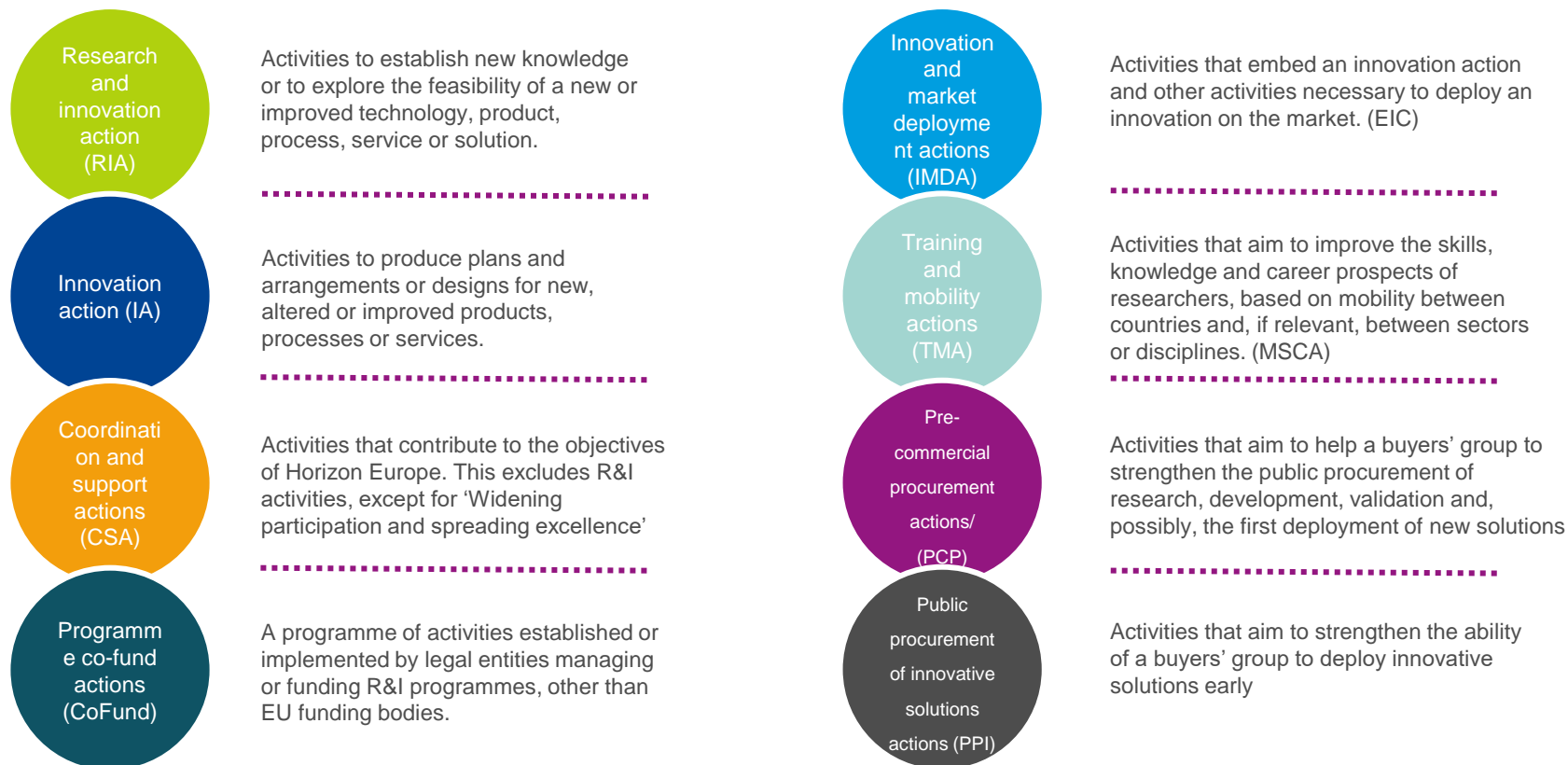
Pillar 2 Global Challenges

Cluster 6

Food
Bioeconomy
Natural
Resources
Agriculture
Environment

- **D1 Biodiversity and Ecosystem Services**
- **D2 Fair, healthy and environmental food systems primary production to consumption**
- **D3 Circular economy and bioeconomy sectors**
- **D4 Clean environment and zero pollution**
- **D5 Land, oceans and water for climate action**
- **D7 Innovative governance, environmental observations, digital solutions for Green Deal**

Activities eligible for funding – Type of actions





Evaluation criteria (RIAs and IAs)

EXCELLENCE

- ✓ Clarity and pertinence of the **project's objectives**, and the extent to which the proposed work is ambitious, and goes beyond the state-of-the-art.
- ✓ Soundness of the proposed **methodology**, including the underlying concepts, models, assumptions, interdisciplinary approaches, appropriate consideration of the **gender dimension** in research and innovation content, and the quality of **open science practices** including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

IMPACT

- ✓ Credibility of the **pathways** to achieve the expected **outcomes and impacts** specified in the work programme, and the likely scale and significance of the contributions due to the project.
- ✓ Suitability and quality of the **measures to maximize expected outcomes and impacts**, as set out in the dissemination and exploitation plan, including communication activities.

QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

- ✓ Quality and effectiveness of the **work plan**, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall.
- ✓ Capacity and role of each **participant**, and extent to which the **consortium** as a whole brings together the necessary expertise.

Proposals aspects are assessed to the extent that the proposed work is within the scope of the work programme topic

Missions and partnerships

MISSION AREAS:

Soil health and food



Cancer



Adaptation to climate change, including societal transformation



Climate-neutral and smart cities



Healthy oceans, seas, coastal and inland waters

Relevant Missions WUR:

Mission 1: Adapting to Climate Change, including Societal Transformation

Mission 5: Soil Health and Food

50 partnerships (8 relevant to WUR, 4 start 21/22)

HORIZON EUROPE'S NEXT-GENERATION EUROPEAN PARTNERSHIPS

... and their contribution to a greener
and more digital Europe



1. Rescuing biodiversity to safeguard life on Earth
2. Circular bio-based Europe
3. A climate neutral, sustainable and productive Blue Economy
4. Water4All

HORIZON EUROPE

What we need to know and consider?



THE KEY TO SUCCESS

~~Ask the EC to fund your research~~

Help the EU to solve its problems!

European Policy for R&I

6 Commission priorities (2019-2024)

- **European Green Deal**
- Europe fit for the digital age
- Economy that works for people
- Stronger Europe in the world
- Promoting our European way of life
- New push for European democracy



Horizon Europe projects: For whom and with whom?



- **Systemic approach**
- **Multi-disciplinary**
- **Cross-sectoral/ value chains**
- **Involve SMEs**
- **Involve the end-user**
- **Citizen Engagement**

Type of actions/projects

**Research and
innovation action
(RIA)**

Establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution.

Innovation action (IA)

Produce plans and arrangements or designs for new, altered or improved products, processes or services.

**Coordination and
support actions (CSA)**

Activities established or implemented by legal entities managing or funding R&I programmes, other than EU funding bodies.

**Programme co-fund
actions (CoFund)**

Contribute to the objectives of Horizon Europe. This excludes R&I activities, except for 'Widening participation and spreading excellence'

Proposal Impact significance

Key impact pathways to track progress



Key principles to consider for the proposal



Work must be within the scope of a work programme



Demonstrate that your idea is ambitious and goes beyond the state of the art



Scientific methodology must take into account interdisciplinary, gender dimension and open science practices. It must not significantly harm the environment



How the project contributes to the outcomes and impacts described in the work programme (the pathway to impact)



Describe measures to maximise the impact of your project (dissemination and exploitation, communication activities')



Demonstrate the quality of your work plan, resources and participants

Policy and horizontal considerations



Open Science across the programme



Gender dimension in R&I content



Pathway to impact



Do no significant harm principle (DNSH)



Measures to maximise impact



Artificial intelligence

**These aspects must be considered
in all Horizon Europe calls.**



Application form (proposal template)

Horizon Europe Programme
Standard Proposal Template (RIA, IA)

Application forms (Part A)
Project proposal – Technical description (Part B)
Version 1.0
10 March 2021

Same structure

The proposal contains two parts:

- **Part A** (web-based forms) is generated by the IT system. It is based on the information entered by the participants through the submission system in the Funding & Tenders Portal.
- **Part B** is the narrative part that includes three sections that each correspond to an evaluation criterion. Part B needs to be uploaded as a PDF document following the templates downloaded by the applicants in the submission system for the specific call or topic.

Proposal writing



PROPOSAL WRITING *Basics*

