



Bu proje Avrupa Birliği ve Türkiye Cumhuriyeti tarafından finanse edilmektedir  
This project is co-funded by the European Union and the Republic of Türkiye



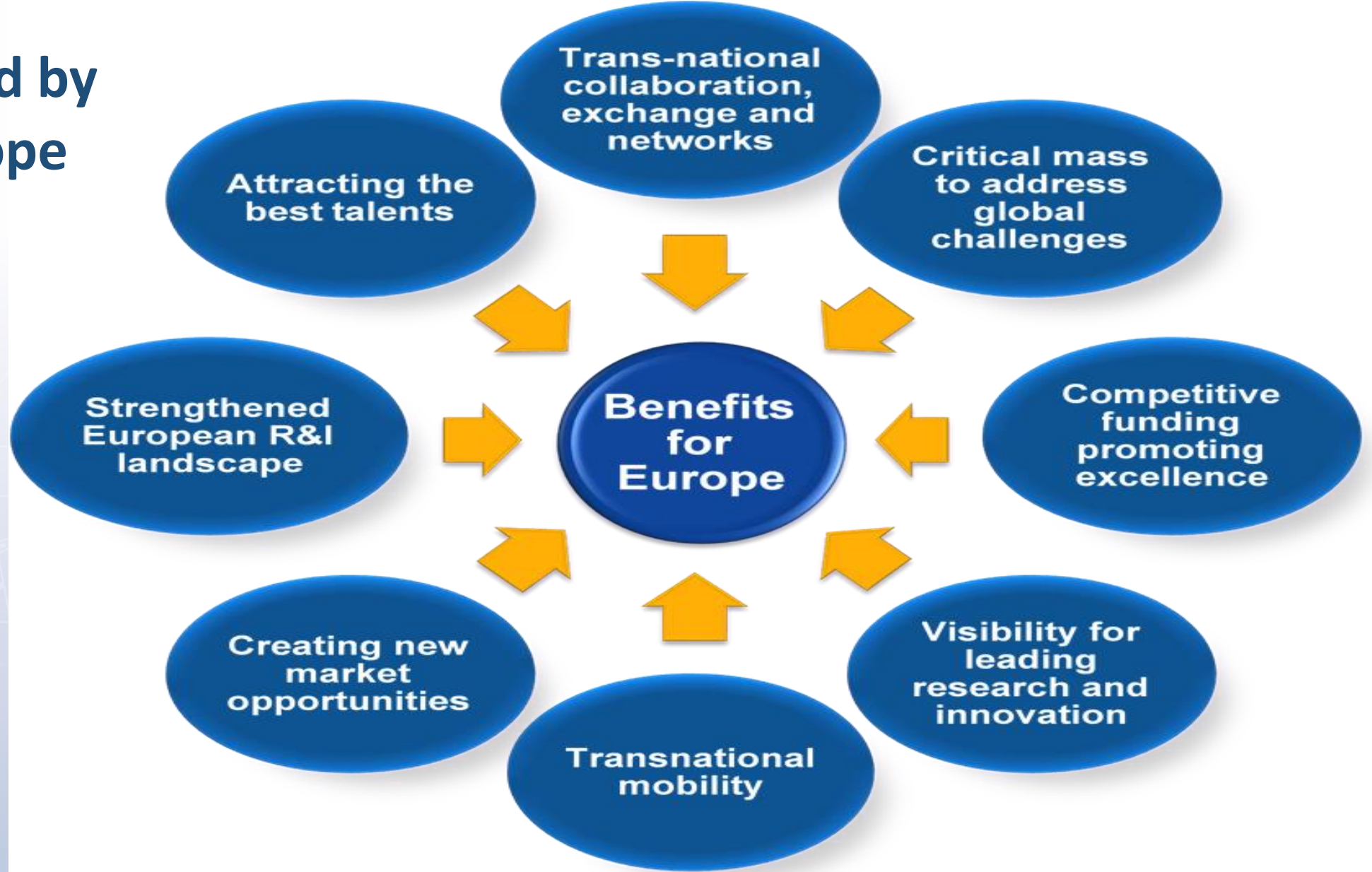
Technical Assistance for Turkey in Horizon 2020 Phase-II  
EuropeAid/139098/IH/SER/TR

# General Info Day #7

*Dimitrios Papageorgiou*  
Istanbul, 10 May 2022

# Getting to know Horizon Europe: EU research and innovation programme and projects

# Value created by Horizon Europe



# Horizon Europe

## Investing to shape our future



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A sustainable, fair and **prosperous** future for **people** and **planet** based on European values.

- Accelerate the twin transition: Green & Digital
- Strengthen resilience & crisis preparedness
- Support Europe's competitiveness edge

## Global challenges



# World-class research and strong industries



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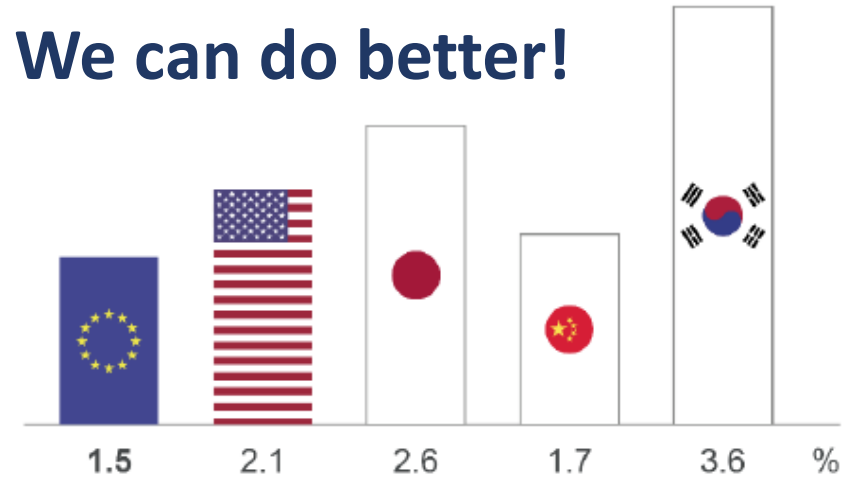


## Europe:

- 6% of the world's population
- 17% of global R&D
- 25% of all high-quality scientific publications

**1.5%** EU business  
R&D investment

**We can do better!**



Source: [THE EU RESEARCH INNOVATION PROGRAMME 2021-27](#), EC, 19/03/2021

# Horizon Europe STRUCTURE



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## 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

# Competitive, fair and transparent, easy to access



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A stable legal framework with simplified rules and procedures



Digital administration



A fair, transparent and objective evaluation of proposals



Data reporting, dissemination and exploitation for value creation



Outreach, guidance and support to participants

# Programme administration



## In numbers...

### Evolution in participation between FP7 and Horizon 2020:

More than **68%** of participants in Horizon 2020 are “newcomers”.

\*Source: Horizon Dashboard - September 2020



# Horizon Europe - PILLAR 1



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## EXCELLENT SCIENCE:



reinforcing and extending the excellence of the Union's science base

### European Research Council

Frontier research by the best researchers and their teams

**€16 billion**

### Marie Skłodowska-Curie Actions

Equipping researchers with new knowledge and skills through mobility and training

**€6.6 billion**

### Research Infrastructures

Integrated and inter-connected world-class research infrastructures

**€2.4 billion**

# Horizon Europe - PILLAR 2 CLUSTERS

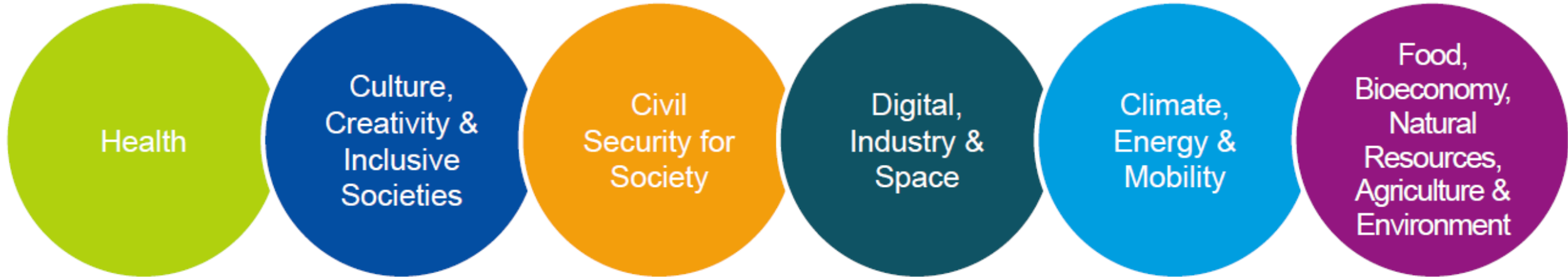


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## Global Challenges & European Industrial Competitiveness

boosting key technologies and solutions underpinning EU policies & Sustainable Development Goals



€53.5 billion

# Horizon Europe - PILLAR 3



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## Innovative Europe



stimulating market-creating breakthroughs and ecosystems conducive to innovation

### European Innovation Council

Support to innovations with breakthrough and market creating potential

### European innovation ecosystems

Connecting with regional and national innovation actors

### European Institute of Innovation and Technology (EIT)

Bringing key actors (research, education and business) together around a common goal for nurturing innovation

The budget: **€10.6 billion**, incl. up to **€527 million** for ecosystems (including NGEU – Recovery Fund parts dedicated to EIC).

**circa €3 billion**

# European Research Area

## Widening Participation and Strengthening the European Research Area: Optimising strengths & potential for a more innovative Europe



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### Widening Participation and Spreading Excellence

- Teaming, Twinning, ERA Chairs,
- European Cooperation in Science and Technology (COST)
- Boosting National Contact Points' (NCPs) activities, pre-proposal checks and advice
- Brain circulation
- Excellence initiatives:-
- Possibility for entities from widening countries to join already selected collaborative R&I actions
- Recognition of participation
- Matchmaking services

**€2.96 billion**

### Reforming and enhancing the EU R&I system

- Strengthening the evidence base for R&I policy
- Foresight
- Support for policy makers to the ERA development
- Support to national R&I policy reform, including Policy Support Facility
- Attractive researcher careers and links with higher education
- Open science, citizen science and science communication
- Gender equality
- Ethics and integrity
- Support to international cooperation
- Scientific input to other policies
- Support to the Programme implementation
- Support for National Contact Points
- Support to dissemination & exploitation

**€0.44 billion**

# MISSIONS



## R&I Missions



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### R&I Missions

Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe: 5 missions areas

Within the Global Challenges and European Industrial Competitiveness pillar

# 5 MISSION AREAS



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Adaptation to  
climate change,  
including societal  
transformation



Cancer



Healthy oceans,  
seas, coastal &  
inland waters



Climate-neutral  
& smart cities



Soil health &  
food

Missions implementation plans: [https://ec.europa.eu/info/publications/implementation-plans-eu-missions\\_en](https://ec.europa.eu/info/publications/implementation-plans-eu-missions_en)

# Missions Board proposals

## Sept 2020



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- ❑ Conquering Cancer: Mission Possible
- ❑ A Climate Resilient Europe Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and just Europe by 2030
- ❑ Mission Starfish 2030: Restore our Ocean and Waters
- ❑ 100 Climate Neutral Cities by 2030 by and for the citizens
- ❑ Caring for Soil is Caring for Life

## 2030 Targets:

- ❑ > 3M lives saved
- ❑ Prepare Europe for climate disruptions, accelerate transition and scale up solutions for resilience
- ❑ Cleaning marine & fresh waters, restoring ecosystems, decarbonize blue economy
- ❑ Showcase 100 European cities in their systemic transformation to climate neutrality, turn them into innovation hubs
- ❑ >75% of all soils in the EU are healthy for food, people, nature and climate

# European Partnerships



## New approach to European partnerships



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Webpage on europa.eu:

[https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-partnerships-horizon-europe\\_en](https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-partnerships-horizon-europe_en)

### Key features of objective-driven and ambitious partnerships:

- Strategic orientation
- Systemic approach
- Simple architecture and toolbox
- Common set of criteria for the life-cycle

#### CO-PROGRAMMED

Based on Memoranda of Understanding/contractual arrangements; implemented independently by the partners and by Horizon Europe

#### CO-FUNDED

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

#### INSTITUTIONALISED

Based on long-term dimension and need for high integration; partnerships based on Art 185/187 of TFEU and the EIT legal acts for 2021-2027

# 49 candidate European Partnerships



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

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

## CROSS-PILLARS II & III

European Open Science Cloud



# Horizon Europe: Types of Action



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- Research and innovation
- Innovation
- Innovation and market deployment
- ERC frontier research
- Training and mobility
- Programme co-fund

- Pre-commercial procurement
- Public procurement of innovative solutions
- Coordination and support
- Inducement prize
- Recognition prize

# HE type of action: Research and innovation



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Action primarily consisting of activities aiming to establish **new knowledge** and/or to **explore the feasibility** of a new or improved technology, product, process, service or solution.

This may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment

# HE type of action: Innovation action



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Action primarily consisting of activities directly aimed at **producing plans and arrangements or designs for new, altered or improved products, processes or services**, possibly including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

# HE type of action: Innovation & market deployment



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Actions embedding an innovation action and other activities necessary to **deploy an innovation in the market**, including the **scaling-up of companies**, providing Horizon Europe **blended finance** (a mix of grant-type funding and private finance)

# HE type of action: ERC frontier research



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**Principal investigator-led  
research actions, hosted  
by single or multiple  
beneficiaries (ERC only)**



# HE type of action: Training and mobility



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Action geared towards improvement of **skills, knowledge and career prospects of researchers** based on mobility between countries, and, if relevant, **between sectors or disciplines.**

# HE type of action: Programme co-fund



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Action to **provide co-funding to a programme of activities established and/or implemented by entities managing and/or funding research and innovation programmes, other than Union funding bodies.**

Such a programme of activities may support actions directly implemented by those entities **or by third parties to whom they may provide any relevant financial support** such as grants, prizes, procurement, as well as Horizon Europe blended finance.

# HE type of action: Public procurement



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**Pre-commercial procurement:** Action with the primary aim of **realizing pre-commercial procurement** implemented by beneficiaries that are **contracting authorities or contracting entities**.

**Public procurement of innovative solution:** Action with the primary aim of **realising joint or coordinated public procurement of innovative solutions** implemented by beneficiaries that are contracting authorities or contracting entities.

# HE type of actions: Coordination and support



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Action contributing towards the objectives of the Programme, excluding research and innovation activities, such as **standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies**

# Horizon Europe Prizes



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**Inducement prize:** prize to spur investment in a given direction, by **specifying a target** prior to the performance of the work

**Recognition prize:** Prize to reward **past achievements and outstanding work** after it has been performed

# Food for thought & Q&A SESSION



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- ☐ What are your plans for Horizon Europe?
- ☐ In which S&T field or sector do you consider yourself to be an expert?
- ☐ What are your strengths – competences that will be needed by HE proposal coordinators – consortia?
- ☐ What contacts of yours can help you in participating in HE?





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# Teşekkür ederim!

# Thank you!

**Learn more:** Horizon Europe info-days: [https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days\\_en](https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days_en)



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