



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



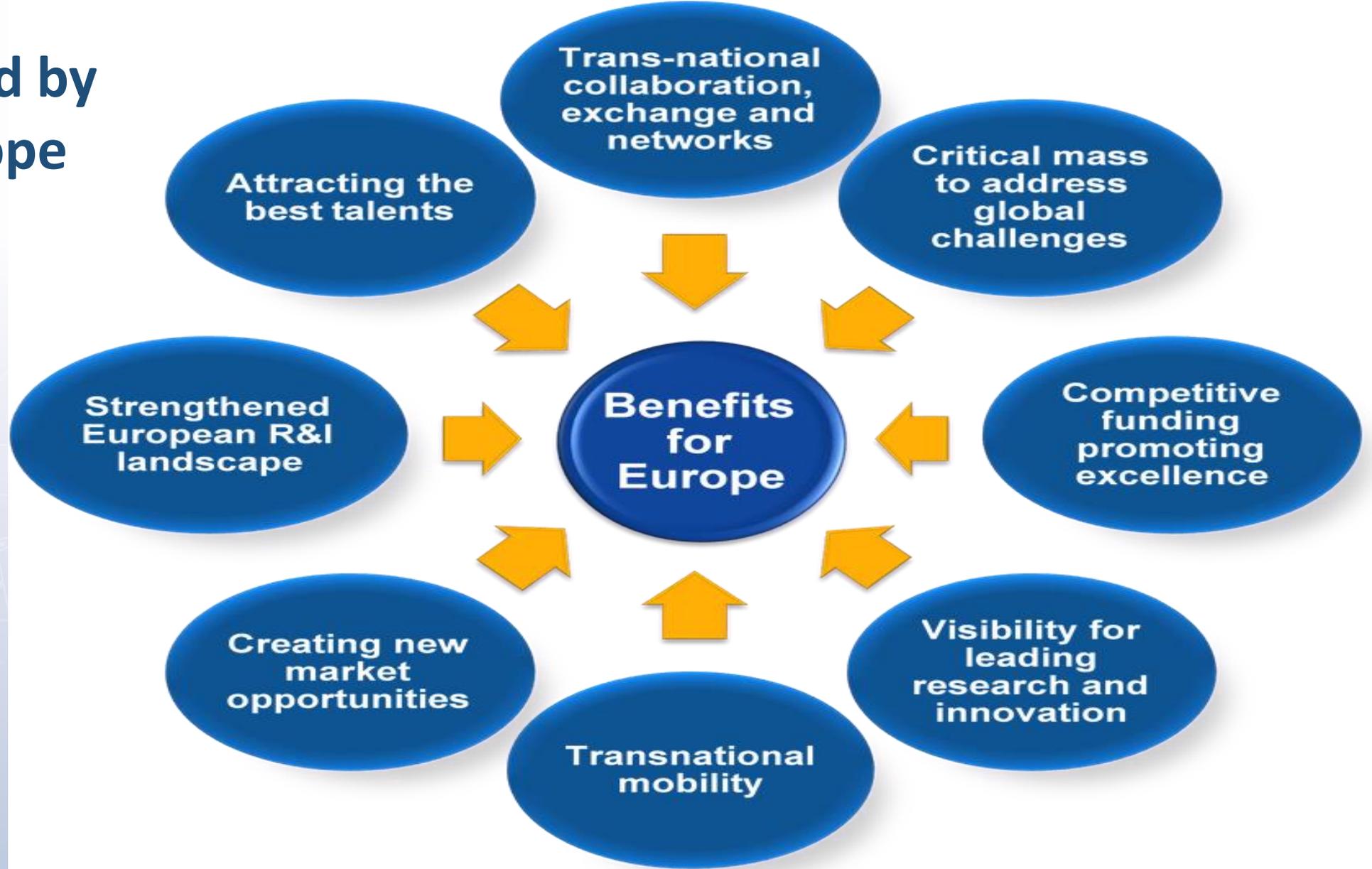
Technical Assistance for Turkey in Horizon 2020 Phase-II
EuropeAid/139098/IH/SER/TR

General Info Day #6

Dimitrios Papageorgiou
Ankara, 13 April 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

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



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Global challenges



World-class research and strong industries



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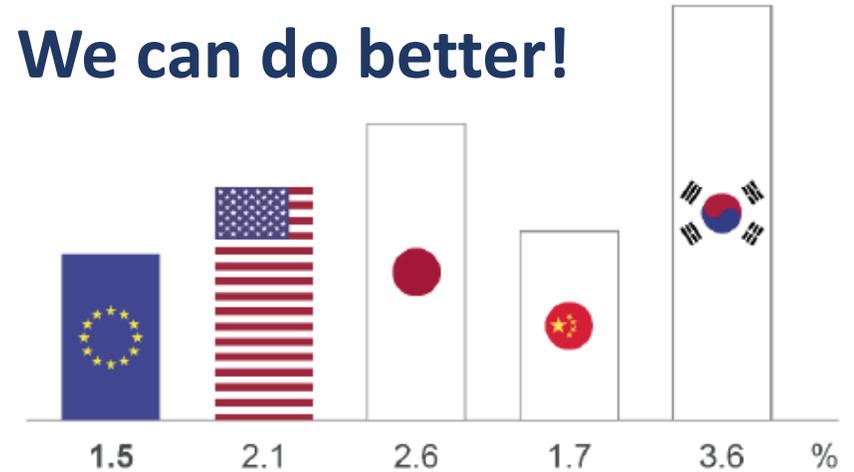


Europe:

- 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

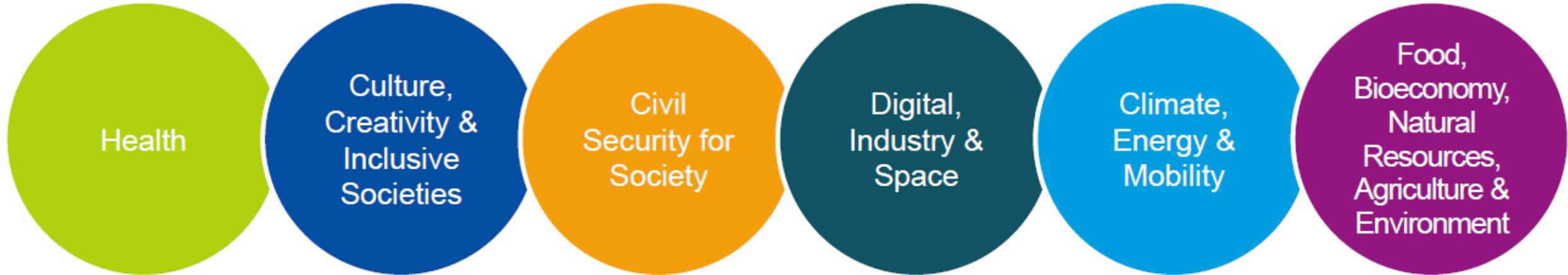


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Global Challenges & European Industrial Competitiveness

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

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

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

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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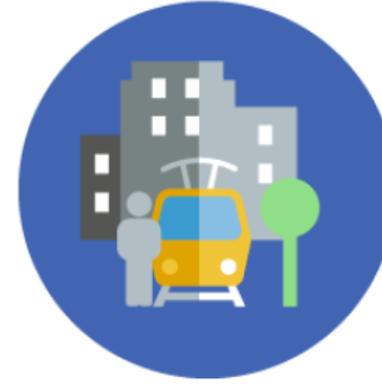
Adaptation to climate change, including societal transformation



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

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

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



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