



This project is co-financed by the  
European Union and the Republic of Turkey

Bu proje Avrupa Birliđi ve Türkiye Cumhuriyeti tarafından  
finanse edilmektedir



TURKEY<sub>in</sub>  
**HORIZON 2020**  
COOPERATION. INNOVATION. COMPETITIVENESS

Technical Assistance for Turkey in Horizon 2020 Phase-II

EuropeAid/139098/IH/SER/TR

# Horizon Europe - Session 1: Getting to know Horizon Europe: EU research and innovation programme and projects

**General Info Day #3**

***Adamantios Koumpis***

Gaziantep, 16 November 2021

Photo by Christian Lue on Unsplash



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY

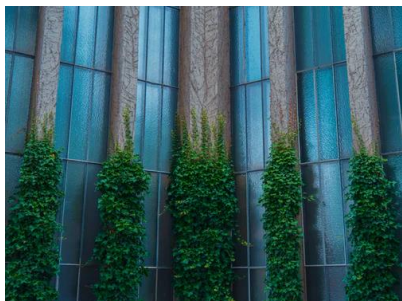




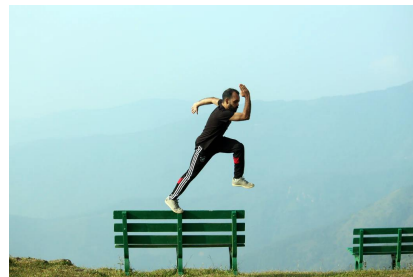
## INTRO: WHY HORIZON EUROPE?



## PARTNERSHIPS



## PILLARS



## TYPES OF ACTION



## MISSIONS



## Q/A SESSION

# INTRO: WHY HORIZON EUROPE?





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

- Tackling **climate change**  
(35 % budgetary target)
- Helping to achieve **Sustainable Development Goals**
- Boosting the Union's **competitiveness and growth**



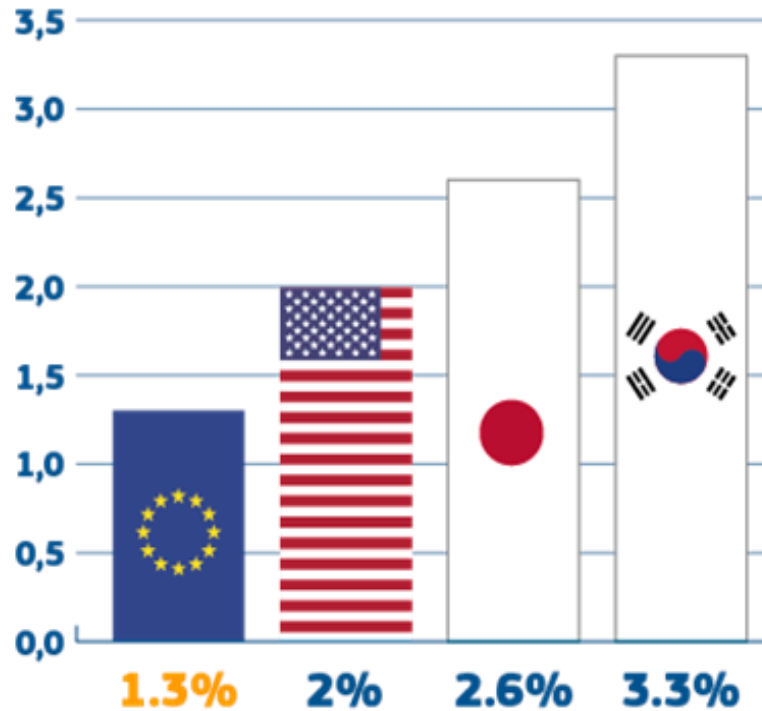
# While benefiting from world-class research and strong industries...

Some key figures about Europe:

- **7%** of the world's population
- **20%** of global R&D
- **1/3** of all high-quality scientific publications

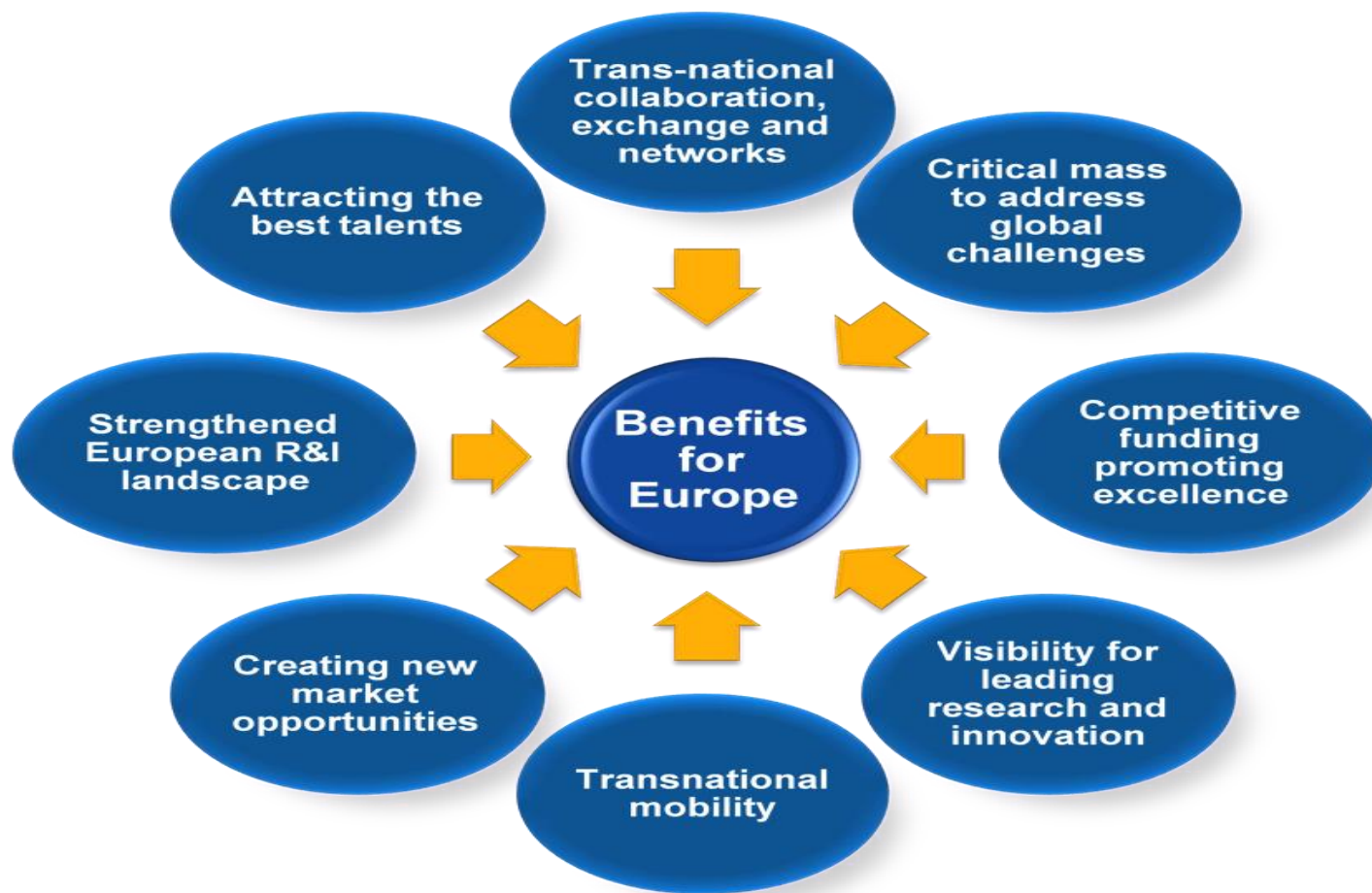


# ...Europe can do better at transforming this into leadership in innovation and entrepreneurship



Business R&D investment

## Added value through 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**





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



## 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





## 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

**Commission proposal:**  
**€ 16.6 billion**

### Marie Skłodowska- Curie Actions

- Equipping researches with new knowledge and skills through mobility and training

**Commission proposal:**  
**€ 6.8 billion**

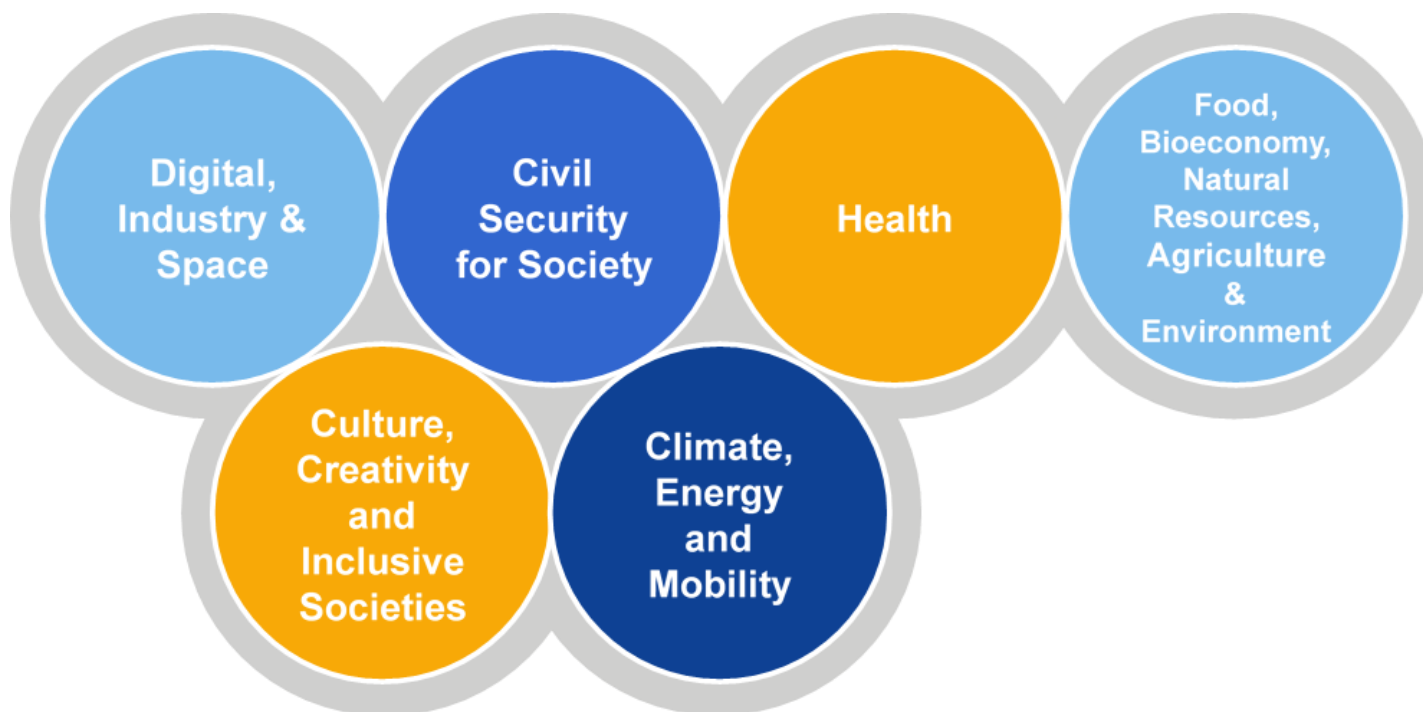
### Research Infrastructures

- Integrated and inter-connected world-class research infrastructures

**Commission proposal:**  
**€ 2.4 billion**

## Global Challenges & European Industrial Competitiveness:

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





## 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 Ecosystem

- 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

## Widening Participation and Strengthening the European Research Area:

Optimising strengths & potential for a more innovative Europe

### Widening Participation and Spreading Excellence, e.g.

- Teaming & twinning
- ERA Chairs
- COST
- Support to NCPs
- Brain circulation and excellence initiatives
- “Hop-on“

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

- Scientific evidence & foresight
- Open Science
- Policy Support Facility
- Attractive researcher careers
- Citizen science, Responsible Research & Innovation
- Gender equality

**Common understanding: At least 3.3 % of Horizon  
Europe budget**





## R&I Missions

### 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 defines mission characteristics and elements of governance, and 5 missions areas.

Specific missions will be programmed within the Global Challenges and European Industrial Competitiveness pillar (drawing on inputs from other pillars)

**Adaptation to climate  
change, including societal  
transformation**



**Healthy  
oceans, seas,  
coastal and  
inland waters**



**Mission  
areas**



**Cancer**

**Climate-neutral  
and smart cities**



**Soil health  
and food**



## Missions in HE legal text (Regulation)

### *Definitions in the FP Regulation*

*(5) 'mission' means a portfolio of excellence-based and impact-driven R&I actions across disciplines and sectors, intended to:*

- *achieve, within a set timeframe, a measurable goal that could not be achieved through individual actions*
- *have impact on society and policy-making through science and technology*
- *be relevant for a significant part of the European population and a wide range of European citizens;*





## New approach to European partnerships: overview

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

### Key features:

- Simple architecture and toolbox
- Common set of criteria
- Coherent life-cycle approach
- Strategic orientation

## 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  
by partners;  
commitment of  
partners for  
financial and in-kind  
contributions &  
financial  
contribution by  
Horizon Europe

## Institutionalised

Based on long-  
term dimension  
and need for high  
integration;  
partnerships  
based on Articles  
185 / 187 of TFEU  
and the EIT-  
Regulation  
supported by  
Horizon Europe

## European Partnerships: what is new?

- Only support partnerships if there is evidence that they are **more effectively** achieving policy objectives than Horizon Europe alone
- **Fewer** partnerships with **higher** impacts
- Common and coherent **framework** of criteria along the life cycle of partnerships, across all pillars, even across programmes and other regulations (e.g. EIT, DEP, space)
- Unified **umbrella** branding to improve visibility
- Increase **openness** and encourage a **broader set of actors** to participate
- Improve **coherence** between partnerships and Horizon Europe, also the missions
- **Time limited** with conditions for phasing-out the Programme funding



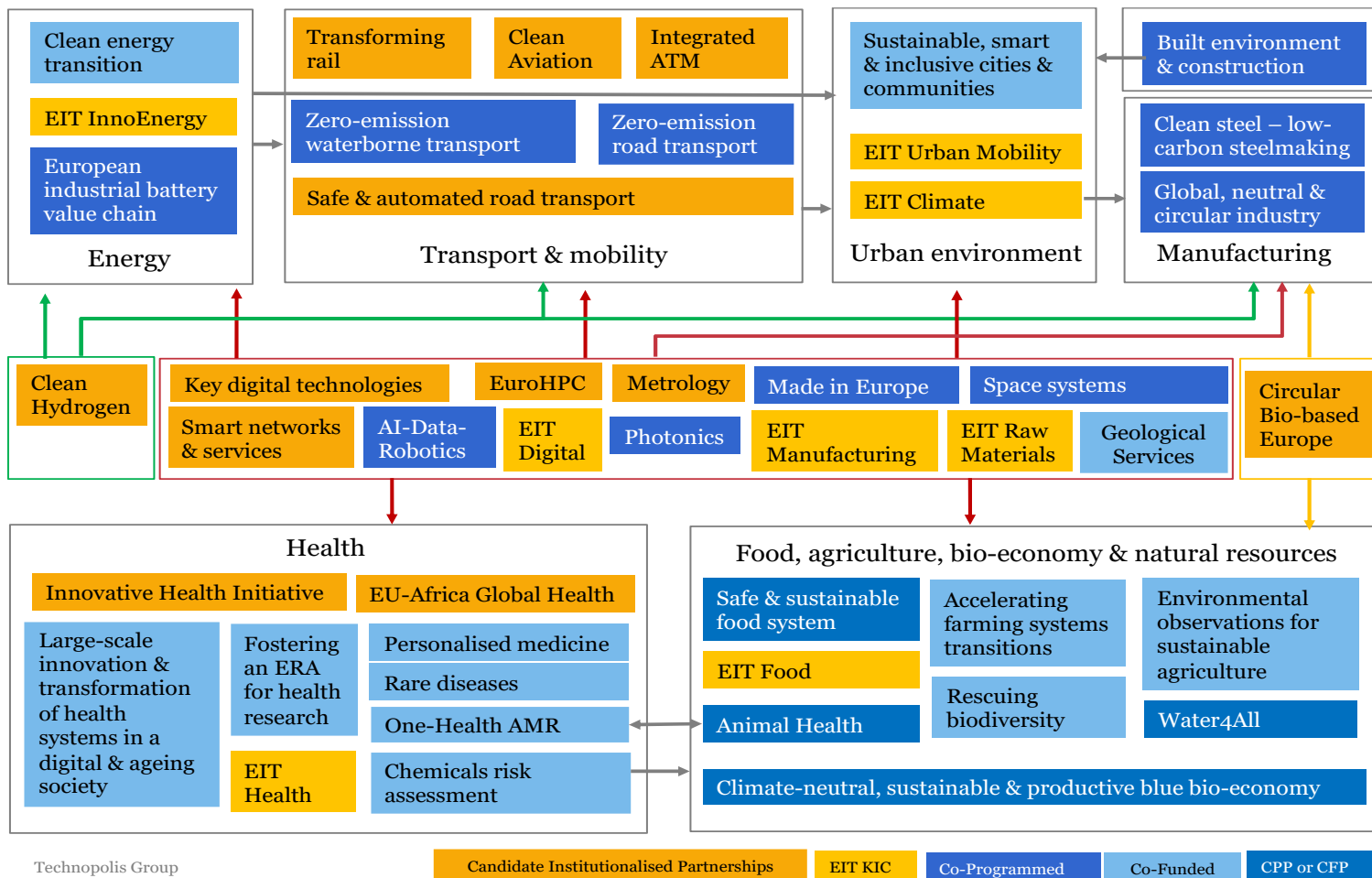
## Preparation: step-by-step

- At the core of the preparation: National research funders/governmental research organisations and national ministries ■ Core tasks:
  - **further elaboration of the partnerships proposal** (in close collaboration/co-creation with COM services)
    - ⚠ necessary to agree on the objectives, expected impacts, compliance with partnership criteria etc.
  - preparation of the **Strategic Research and Innovation Agenda**, and the process that will allow to identify the topics in work plans.
- On that basis: preparation of the **Horizon Europe call text for a programme co-fund action** implementing the European Partnership, subject to comitology and COM decision adopting the WP.
- Consortium of research funders prepares and submits the **proposal for a cofund action** (including the draft annual work plan year 1), subsequent, evaluation, Grant Agreement preparation
- Launch of the European Partnership, preparation and launch of activities, including e.g. calls for proposals
- Annual work plans subject to COM approval.

Industry-orientated  
'vertical'  
partnerships

'Horizontal'  
partnerships

Vertical partnerships in  
the societal application  
areas







**Direct actions:** research and innovation activities undertaken by the Commission through its Joint Research Centre (JRC)



**Indirect actions:** research and innovation activities to which the Union provides financial support, and which are undertaken by participants

- 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





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



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.



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)

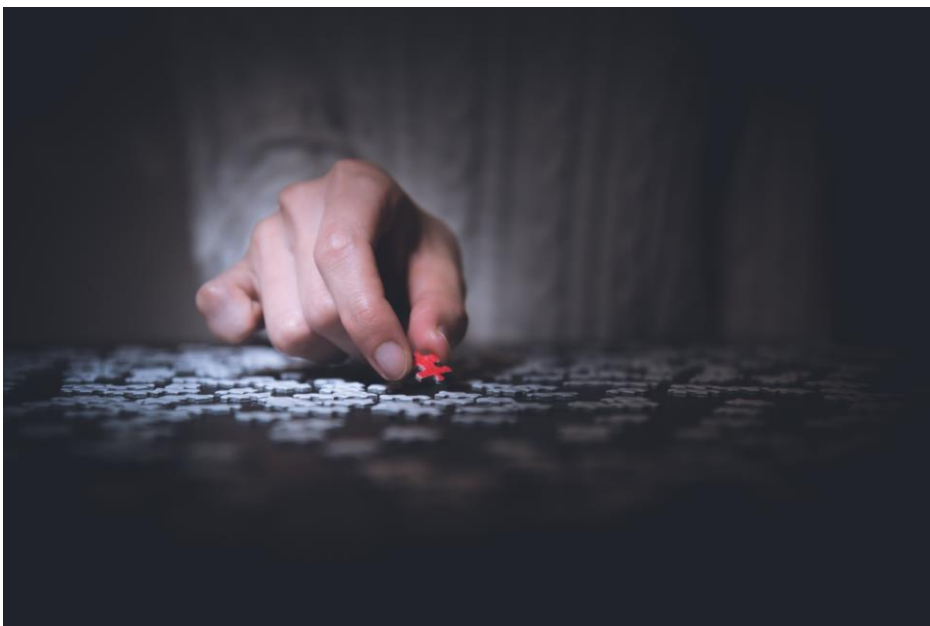


**Principal investigator-led  
research actions, hosted  
by single or multiple  
beneficiaries (ERC only)**



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





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.



**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.



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



**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







Contact:

Office Address

*Turkey in Horizon 2020 Project  
And Sokak 8/12 Akasya Apt. 06680 Çankaya/Ankara*

*06520 Çankaya/Ankara,Turkey*

*Tel: +90 312 467 61 40*

*<http://www.turkeyinh2020.eu/>*

*[info@TurkeyinH2020.eu](mailto:info@TurkeyinH2020.eu)*



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



Teşekkür ederim!

Thank you!



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



COMPETITIVE  
SECTORS  
PROGRAMME



TÜBİTAK