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Bu proje Avrupa Birliđi ve Türkiye Cumhuriyeti tarafından
finanse edilmektedir



TURKEY_{in}
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 #2

Adamantios Koumpis

Samsun, 21 October 2021

Photo by Christian Lue on Unsplash



REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY

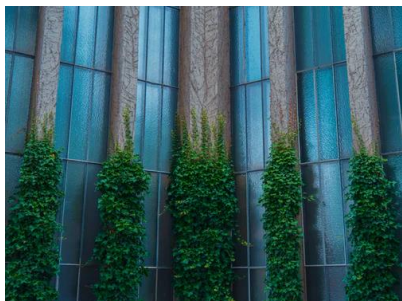




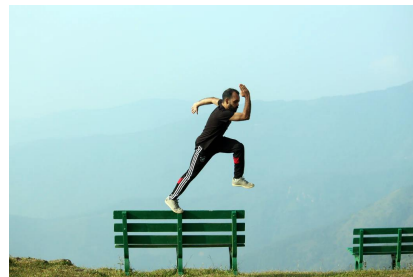
INTRO: WHY HORIZON EUROPE?



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**



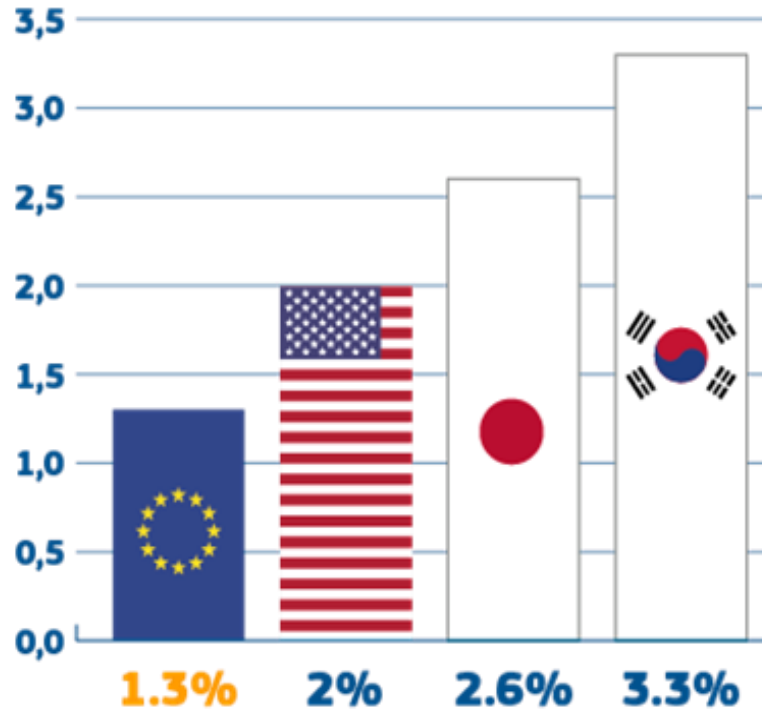
While benefiting from world-class research and strong industries...

Some key figures about Europe:

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

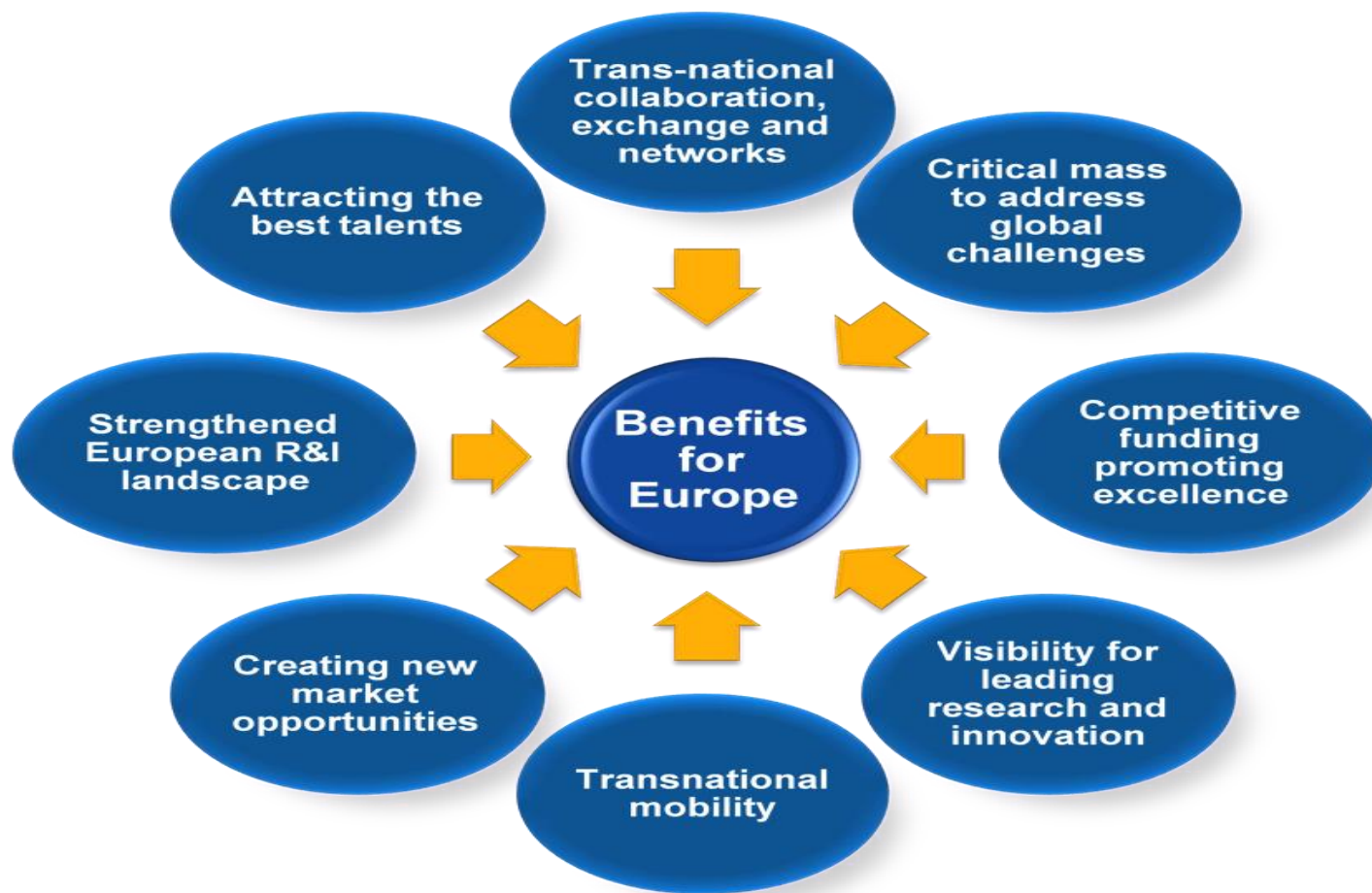


...Europe can do better at transforming this into leadership in innovation and entrepreneurship



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

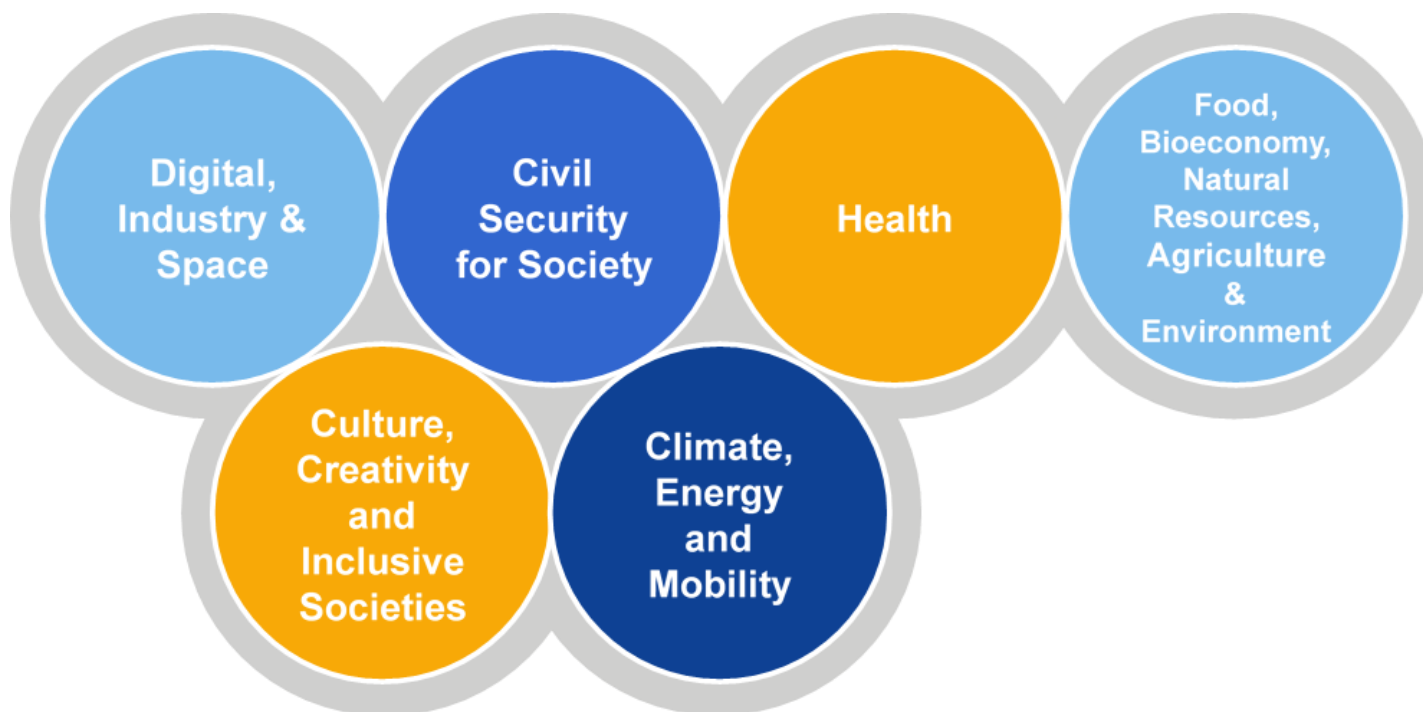
Research Infrastructures

- 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

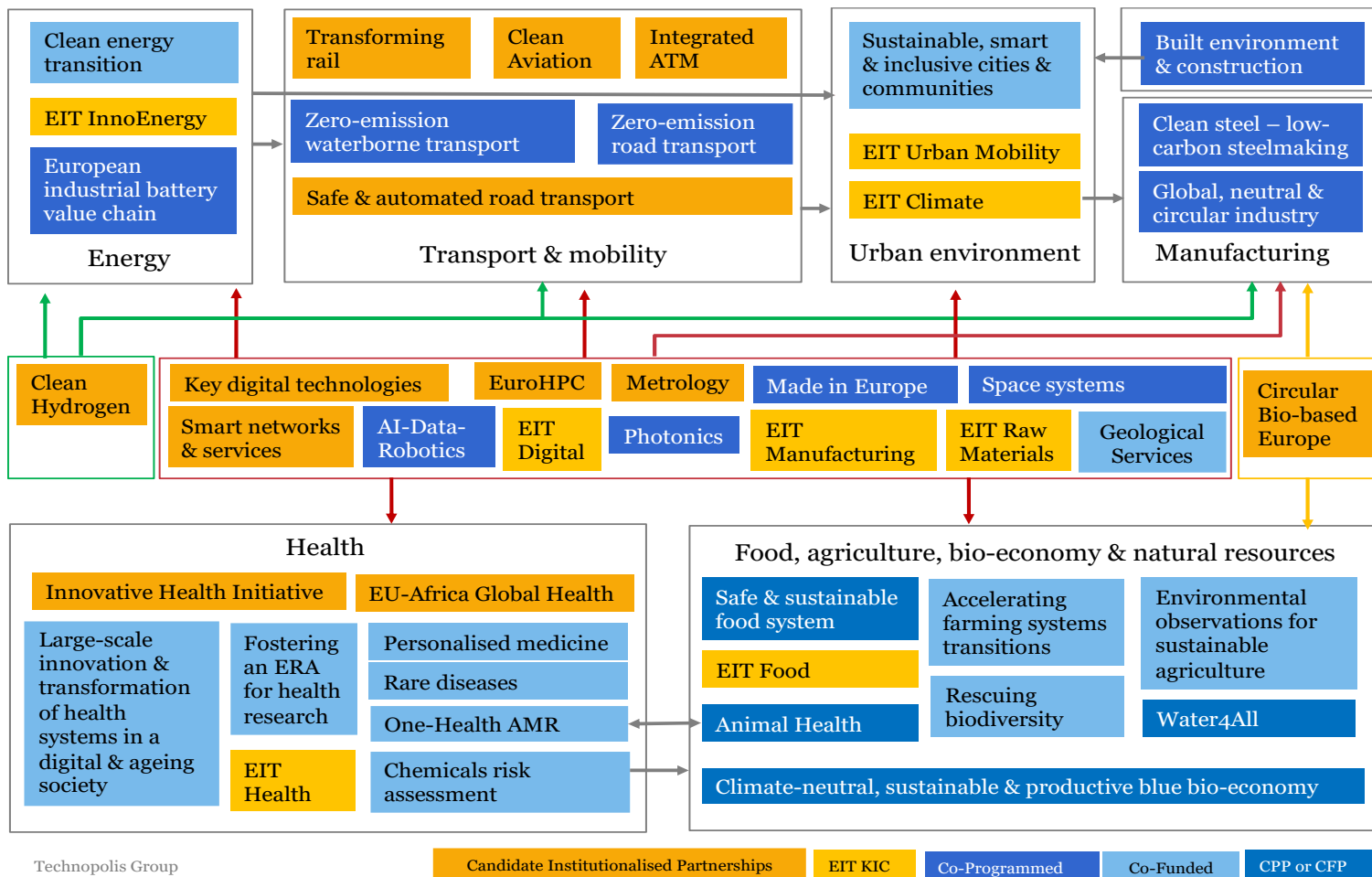
Preparation: step-by-step

- 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

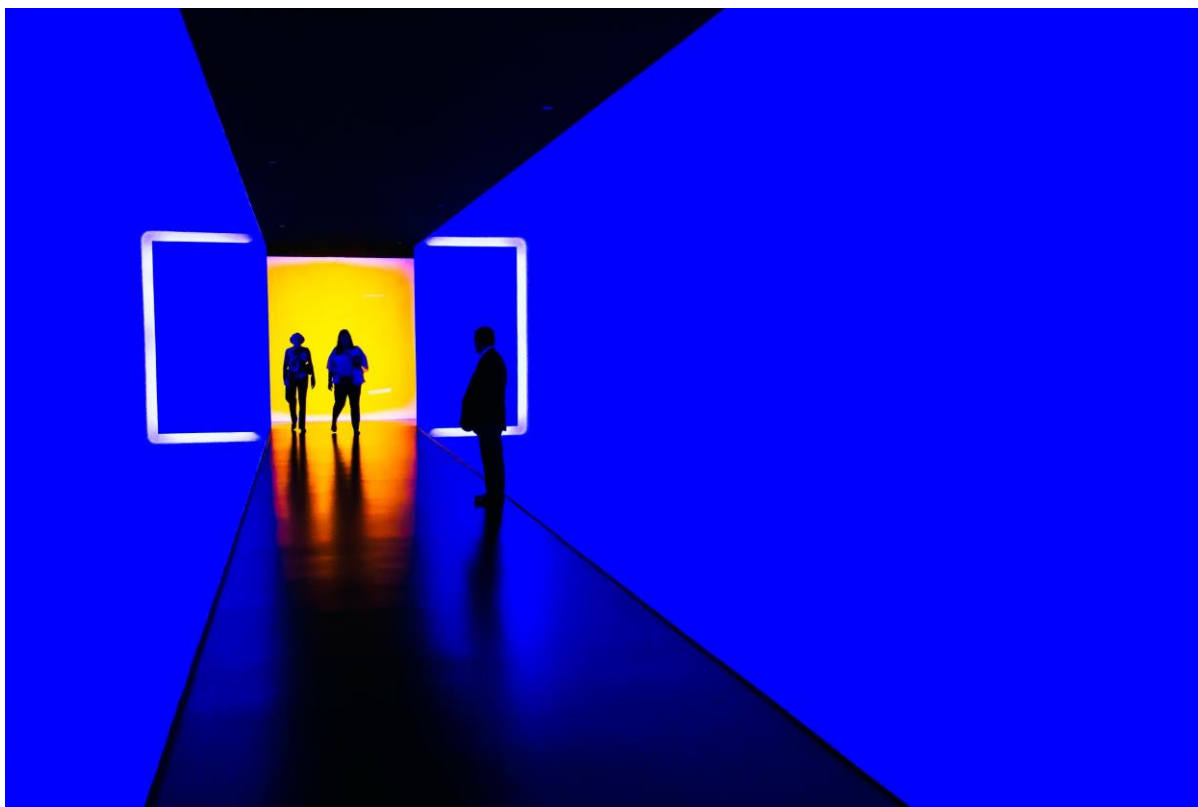
- Research and innovation
- Innovation
- Innovation and market deployment
- ERC frontier research
- Training and mobility
- Programme co-fund
- Pre-commercial procurement
- Public procurement of innovative solutions
- Coordination and support
- Inducement prize
- Recognition prize



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.



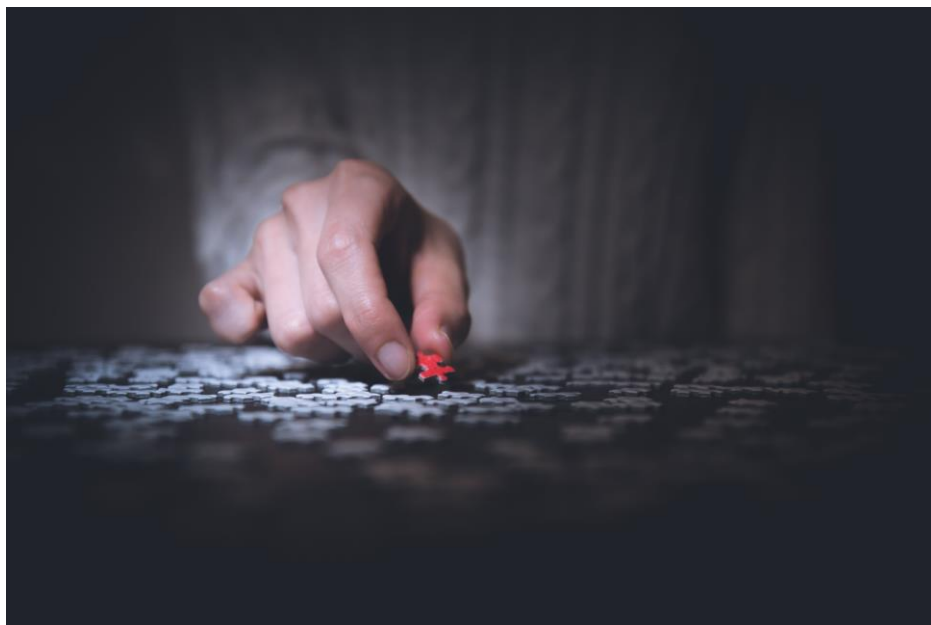
Actions embedding an innovation action and other activities necessary to **deploy an innovation in the market**, including the **scaling-up of companies**, providing Horizon Europe **blended finance** (a mix of grant-type funding and private finance)



**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



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REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY



Teşekkür ederim!

Thank you!



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AND TECHNOLOGY



COMPETITIVE
SECTORS
PROGRAMME



TÜBİTAK