



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_{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 #4

Adamantios Koumpis

Kayseri, 18 January 2022

Photo by Christian Lue on Unsplash



REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY



COMPETITIVE
SECTORS
PROGRAMME



TÜBİTAK

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**

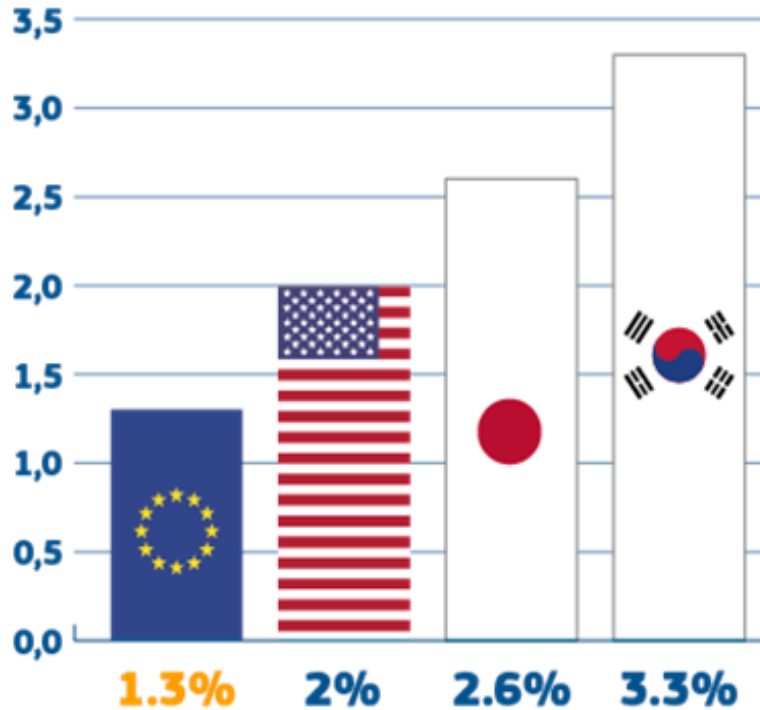


Some key figures about Europe:

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

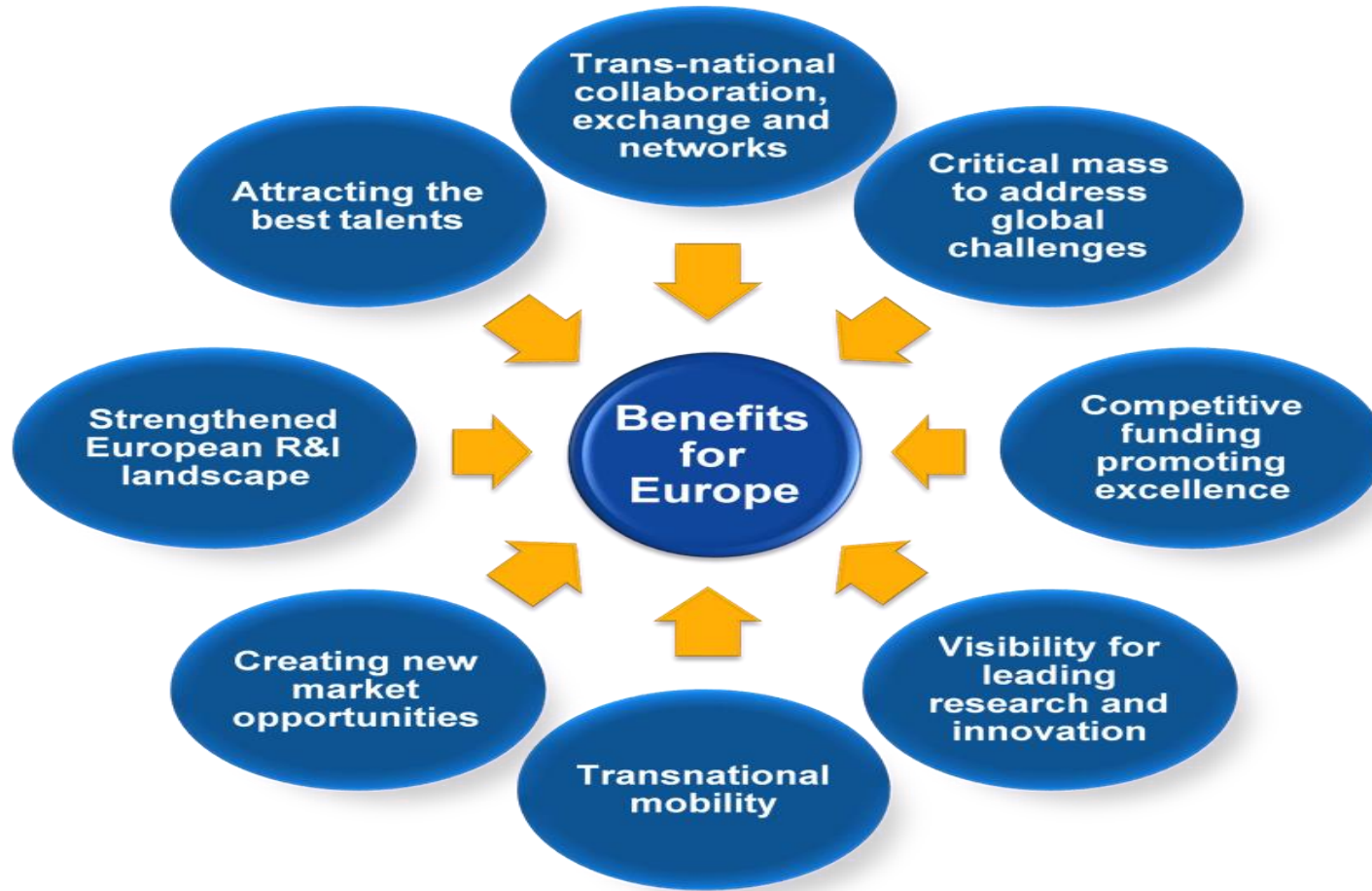


...Europe can do better at transforming this into leadership in innovation and entrepreneurship



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

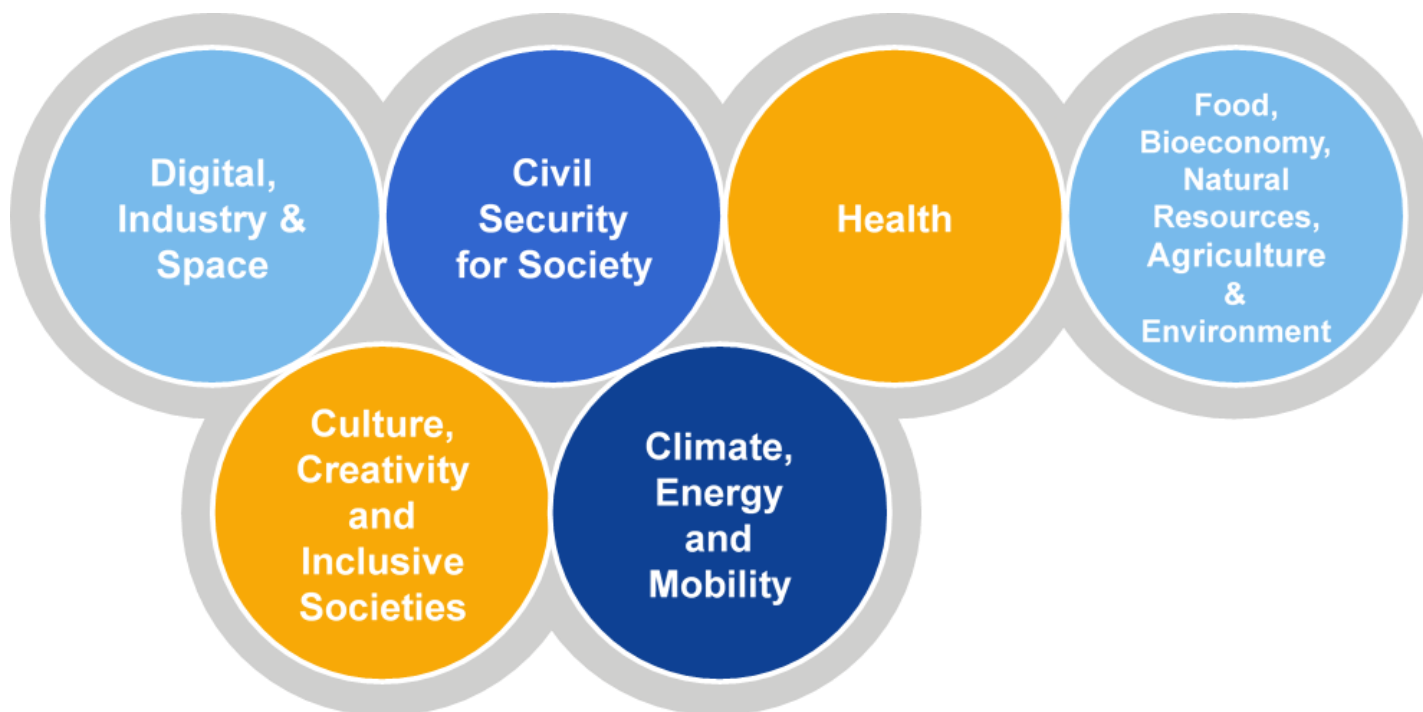
Research Infrastructures

- 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 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

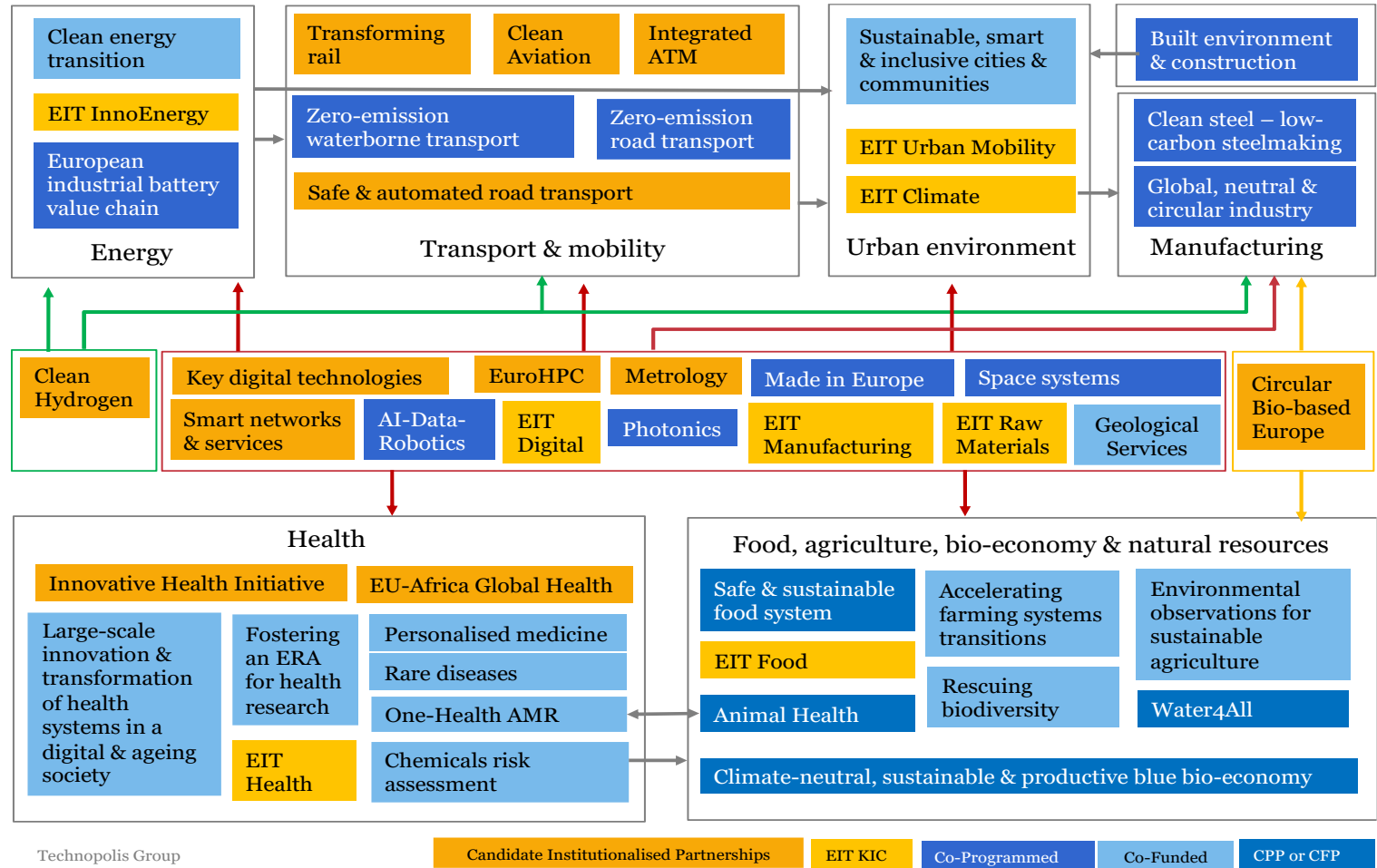
European Partnerships: what is new?

- 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

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
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COMPETITIVE
& SUSTAINABLE
GROWTH PROGRAMME



TÜBİTAK

Teşekkür ederim!

Thank you!



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