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

Turkey in Horizon 2020 II

Horizon Europe Structure

(Pillars, Missions, Partnerships and Types of Action)

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REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY



Grigoris Chatzikostas

Training Coordinator in "Turkey in Horizon 2020 – Phase II" project



- “ Managing multi-national and cross-sectoral consortia, **writing proposals for EU funding and coordinating large-scale projects** that promote tech-enabled entrepreneurship in various sectors such as agrifood, ICT, environment, health, manufacturing, entrepreneurship etc.
- “ **Training, coaching, mentoring and supporting researchers and innovators** on issues related to proposal writing for EU funding opportunities, project management of EU funded projects, IPR management and entrepreneurship, in countries such as Greece, Serbia, Lithuania, Bulgaria, Turkey, Tunisia, Poland etc

17yrs

Experience in EU
projects



1st position in
Serbia in attracting
H2020 funds

100+ m€

Total value of
projects managed



INTRO: WHY HORIZON EUROPE?



PARTNERSHIPS



PILLARS



TYPES OF ACTION



MISSIONS



Q/A SESSION

INTRO: WHY HORIZON EUROPE?



Horizon Europe



The next EU research and innovation investment programme
(2021-2027)

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**

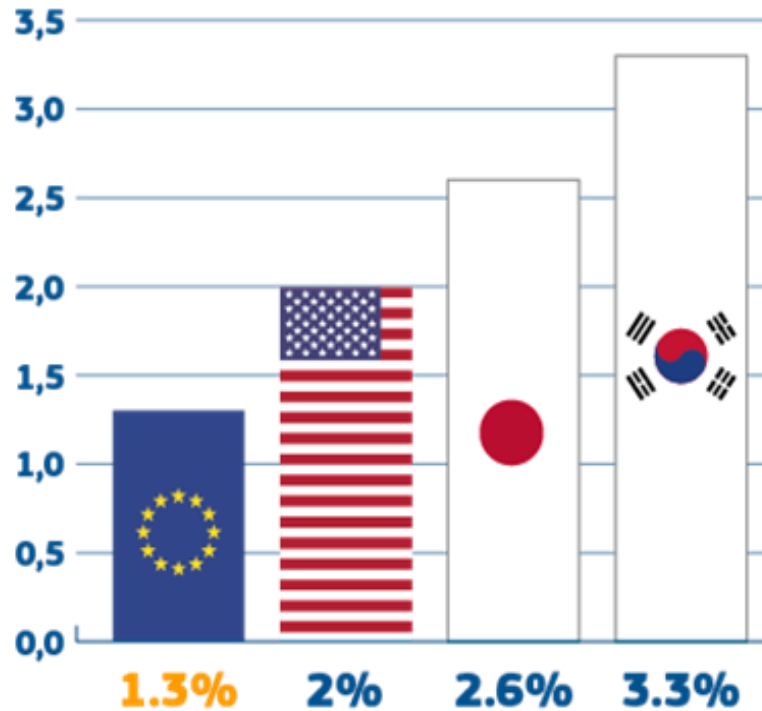


Some key figures about Europe:

- **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

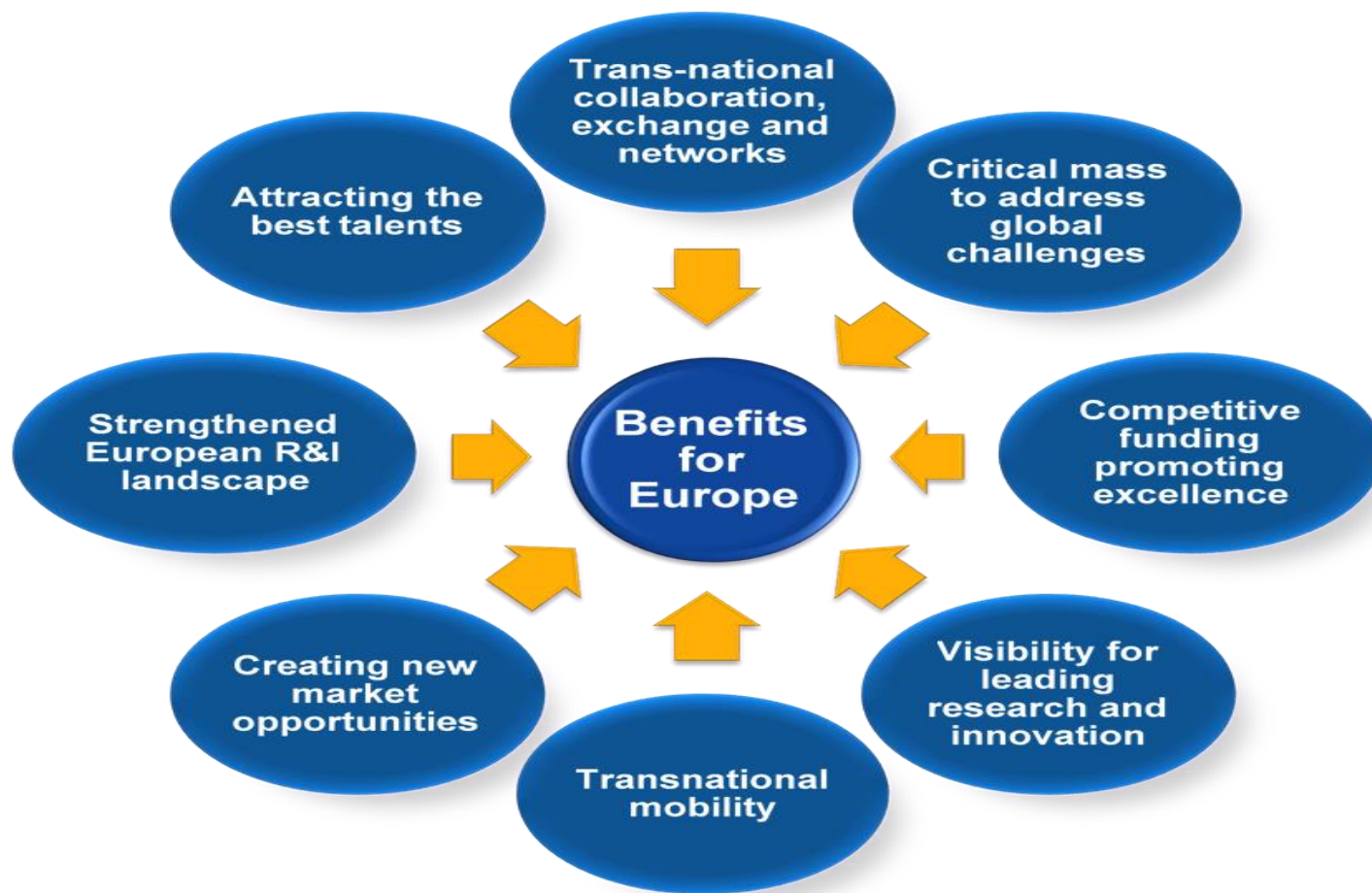
The evolution of the Horizon Europe budget

	Original Commission proposal (2018)	EU Council compromise (February 2020)	Latest Commission proposal (May 2020)	EU Council compromise (July 2020)	EU Council negotiation box (18 July)	EU Council negotiation box (20 July)
Horizon Europe funding in 2018 prices (€ billions)						
<i>From basic EU budget (MFF)</i>	83.5	80.9	80.9	75.9	75.9	75.9
<i>From recovery fund (Next Generation)</i>	NA	NA	13.5	13.5	11.5	5
Total Horizon Europe funding	83.5	80.9	94.4	89.4	87.4	80.9
Horizon Europe funding in inflation-adjusted "current" prices (€ billions)						
<i>From basic EU budget (MFF)</i>	94.1	91.1	91.18	NA	NA	NA
<i>From recovery fund (Next Generation)</i>	NA	NA	14.65	14.65	NA	NA
Total Horizon Europe funding	94.1	91.18	105.83	NA	NA	NA

Political Agreement 20/12/2020

€95.5 billion

Added value through Horizon Europe:



Keeping the EU at the forefront of global research and innovation

Horizon Europe will:

- **Maximise** its impact and deliver on the EU's strategic priorities, such as the recovery, green and digital transitions, and tackles global challenges to improve the quality of our daily lives;
- **Strengthen** excellent EU science and technology by increasing investment in highly skilled people and cutting-edge research;
- **Foster** the EU's industrial competitiveness and its innovation performance, notably supporting market-creating innovation via the European Innovation Council and the European Institute of Innovation and Technology;
- **Enhance** access to excellence for researchers across Europe to foster participation and collaboration, as well as promoting gender balance.



Up to €11 of GDP gains
over 25 years can be
potentially generated
by each euro invested
at EU level in R&I



Over 35%
of Horizon Europe
spending will
contribute to
climate objectives



To create
300.000 jobs
by 2040, of which
40% will be
highly skilled jobs

How does this relate to impact of specific H. Europe projects ?



Support breakthrough innovation > European Innovation Council: One-stop shop to bring the most promising ideas from lab to real world application and support the most innovative SMEs, including start-ups, to scale up their ideas.



Deliver targeted solutions to societal challenges together with citizens > EU missions: Ambitious, bold goals to tackle issues that affect our daily lives, ranging from fighting cancer to adapting to climate change, living in greener cities, ensuring soil health for food, nature, people and climate, and protecting our waters and ocean.



Rationalise the funding landscape > Streamlined approach to European Partnerships: Streamlined number of partnerships while encouraging wide participation of partners from public and private sectors.



Strengthen international cooperation > extended association possibilities: Extended openness to association for non-EU countries (third countries) with good capacity in science, technology and innovation.



Reinforce openness > Open Science policy: Mandatory open access to publications, open access to research data ensured. Use of European Open Science Cloud as appropriate.



Encourage participation and decrease the R&I gap in Europe > widening participation and spreading excellence: A wide spectrum of measures to support lower R&I performing countries, to build up excellence centres, to improve their capacity and facilitate collaborative links.



Increase the R&I impact > synergies with other EU programmes and policies: A set of practical solutions to implement Horizon Europe and relevant R&I-related programmes and policies in synergy, for example InvestEU, Erasmus+, EU Cohesion Policy, Digital Europe, European Structural and Investment Funds, Connecting Europe Facility, and the Recovery and Resilience Facility, to promote faster dissemination at national and regional level, and uptake of research and innovation results.



Reduce administrative burden > simpler rules: To increase legal certainty and reduce administrative burden for beneficiaries and programme administrators.

Horizon Europe



Other Union Programmes, including

Common Agricultural Policy
ERDF
External Instrument
Maritime & Fisheries Fund
InvestEU

LIFE
Connecting Europe Facility
ESF+
Digital Europe
Space Programme

Erasmus
Innovation Fund
Internal Security Fund
Single Market Programme



Enhanced synergies

Compatibility

Harmonisation of funding rules; flexible co-funding schemes; pooling resources at EU level

Coherence and complementarity

Alignment of strategic priorities in support of a common vision

HORIZON EUROPE – DISCLAIMER



Disclaimer: these slides complement the information of the currently available information on Horizon Europe. They aim only to support a preparatory networking exercise. They do not present Horizon Europe Calls nor any future position of the European Commission. Participants are strongly encouraged to rely only on the official Call documents that will be published by EC while preparing their proposals.





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

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

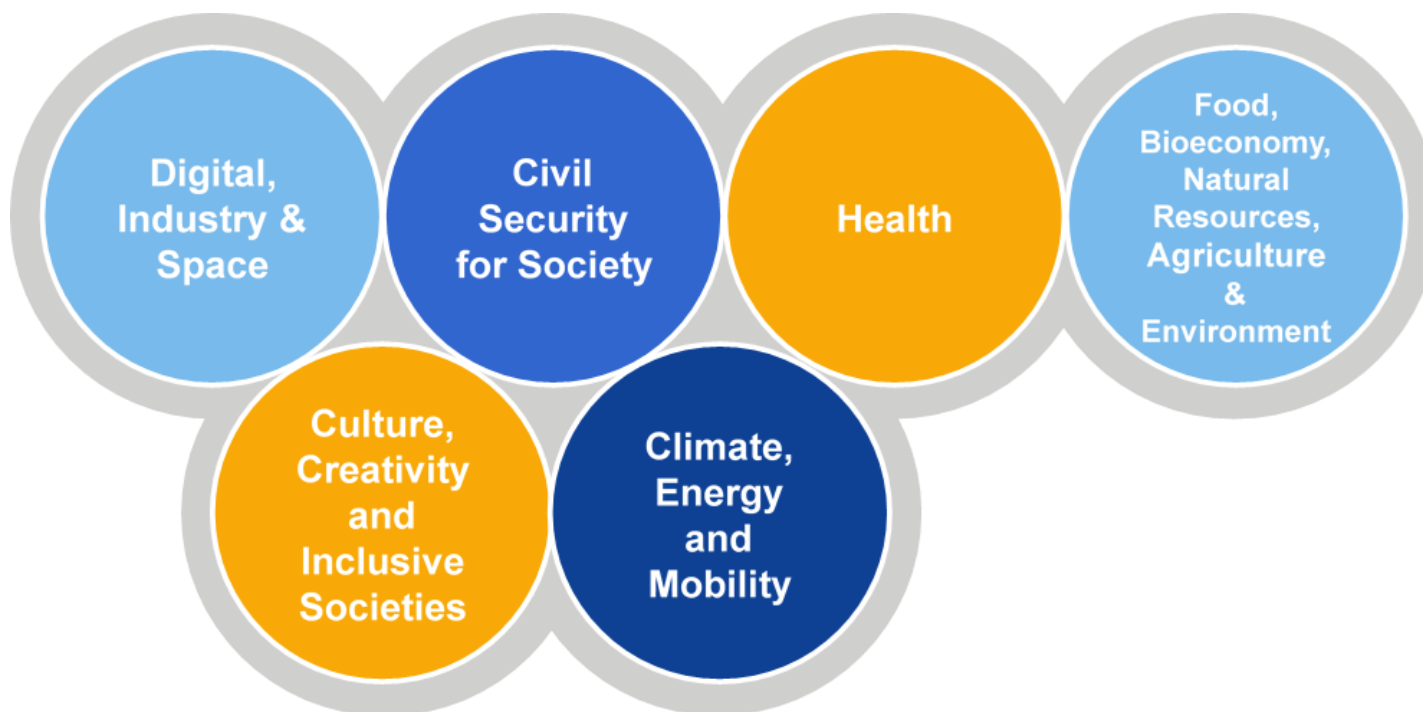
Research Infrastructures

- 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

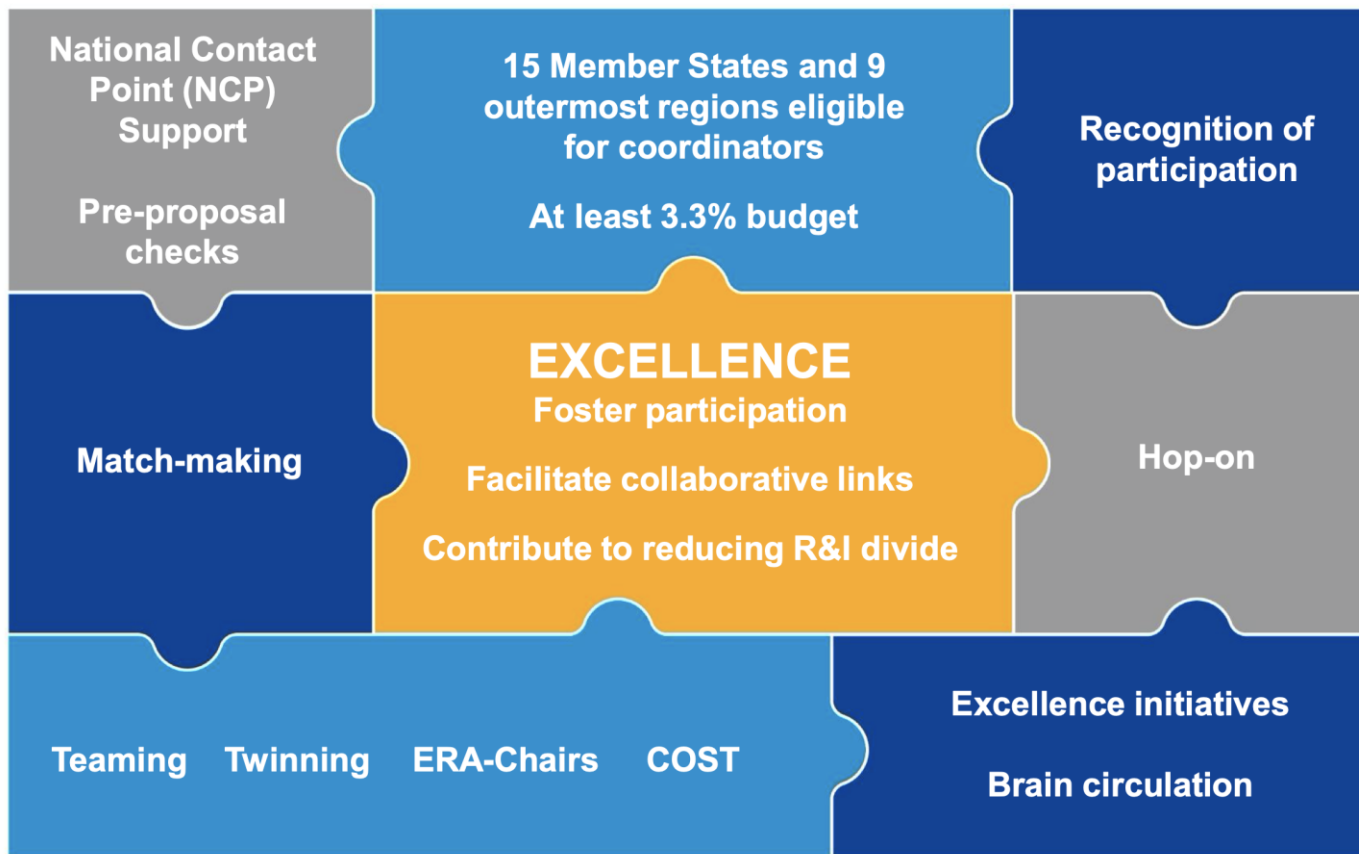
- Support to innovations with breakthrough and market creating potential

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



Common understanding: At least 3.3 % of Horizon Europe budget

Stimulates more investment in research and innovation,
notably by the private sector; leverages and complements
national/regional initiatives

No market distortion: intervention only to address financing
gaps in the R&I delivery chain (notably due to high risk)

Support through:

- **InvestEU Fund**
- **InvestEU Assistance**
- **InvestEU Portal**

Leverages an estimated **€ 200 bn** of
investments into R&I; **market-based finance**
for the exploitation and scale-up of
European R&I





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;*

Budget for Missions?

- *there is no fixed budget for each mission.*
- *during the first 3 years of the programme, a maximum of 10% of the annual budget of Pillar II shall be programmed through specific calls for implementing the missions.*
- *only after a positive assessment of the mission selection and management process, this percentage may be increased.*
- *the missions will receive support over and beyond Horizon Europe funding.*

How will missions be implemented?

- Launch **specific calls** in Horizon Europe and other European or national funding programmes;
- Select and manage the Horizon Europe projects as a **portfolio** whose impact is greater than the sum of its parts
- Align the scope of **other parts of Horizon Europe**
- Align the scope of **relevant Commission programmes** to contribute towards the mission objectives
- Align the scope of **relevant national programmes** to contribute towards the mission objectives
- Identify **specific actions** to change/ improve the policy and regulatory context to **pave the way for the missions'**
- success
- **Combine efforts** with similar programmes in **countries outside of the EU.**

Chairs of the Mission Boards

Adaptation to Climate Change including Societal Transformation:

Ms Connie Hedegaard



Cancer:

Prof Harald zur Hausen



Healthy Oceans, Seas, Coastal and inland Waters :

Mr Pascal Lamy



Climate - Neutral and Smart Cities:

Ms Hanna Gronkiewicz - Waltz



Soil health and Food:

Mr Cees Veerman







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

- Calls of the Partnership:
 - Can in principle be open as Horizon Europe calls, if agreed by the partners;
 - In the past: funding mostly limited to legal entities from countries that contribute with funding to the call (based on national funding rules), eligibility for (un-funded) participation should always be possible.
- Ensure involvement and consultation of relevant stakeholders (beyond partners) and Member States in the development/ validation of Roadmaps/SRIA and the annual priority setting.

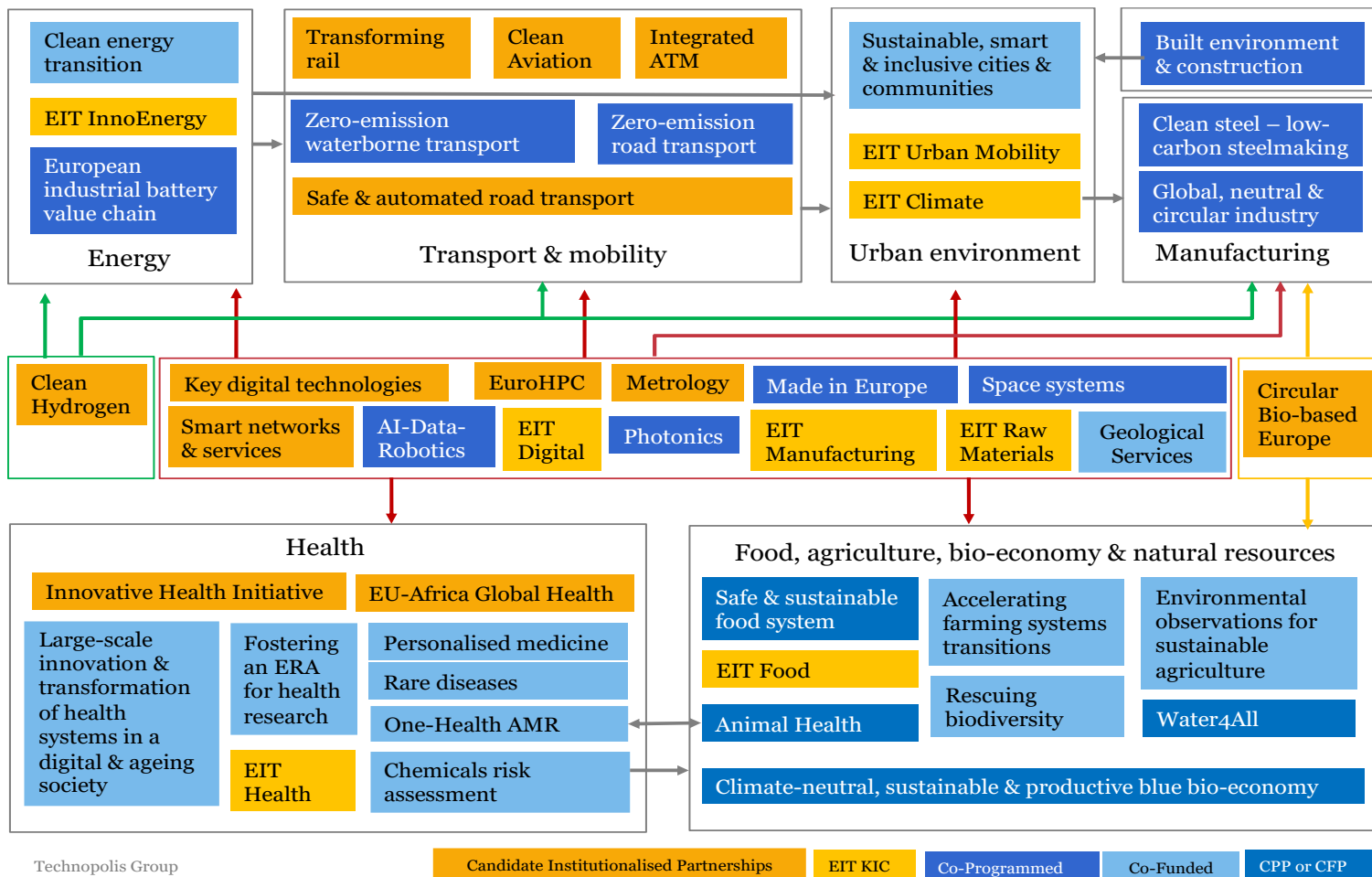
European Partnerships and international cooperation: Associated Countries

Associated 3 rd Countries	Partner	Eligible for participation in projects	Eligible for funding in projects
Co-programmed	In principle yes, subject to policy considerations	Yes	Yes
Co-funded	Yes	Yes, if the country participates and contributes to the call in question, or if call provisions allow for unfunded participation	Yes, if the country participates and contributes to the call in question, or if call provisions allow for funded participation
Article 185	Yes, as participating state	By default yes, unless derogations in the basic act or in the Annual Work Programme limit eligibility for participation	By default yes, unless derogations in the basic act or in the Annual Work Programme limit eligibility for funding
Article 187	In principle yes, subject to policy considerations (for both private partners, and where applicable, as participating state)	By default yes, unless derogations in the basic act or in the Annual Work Programme limit eligibility for participation	By default yes, unless derogations in the basic act or in the Annual Work Programme limit eligibility for 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

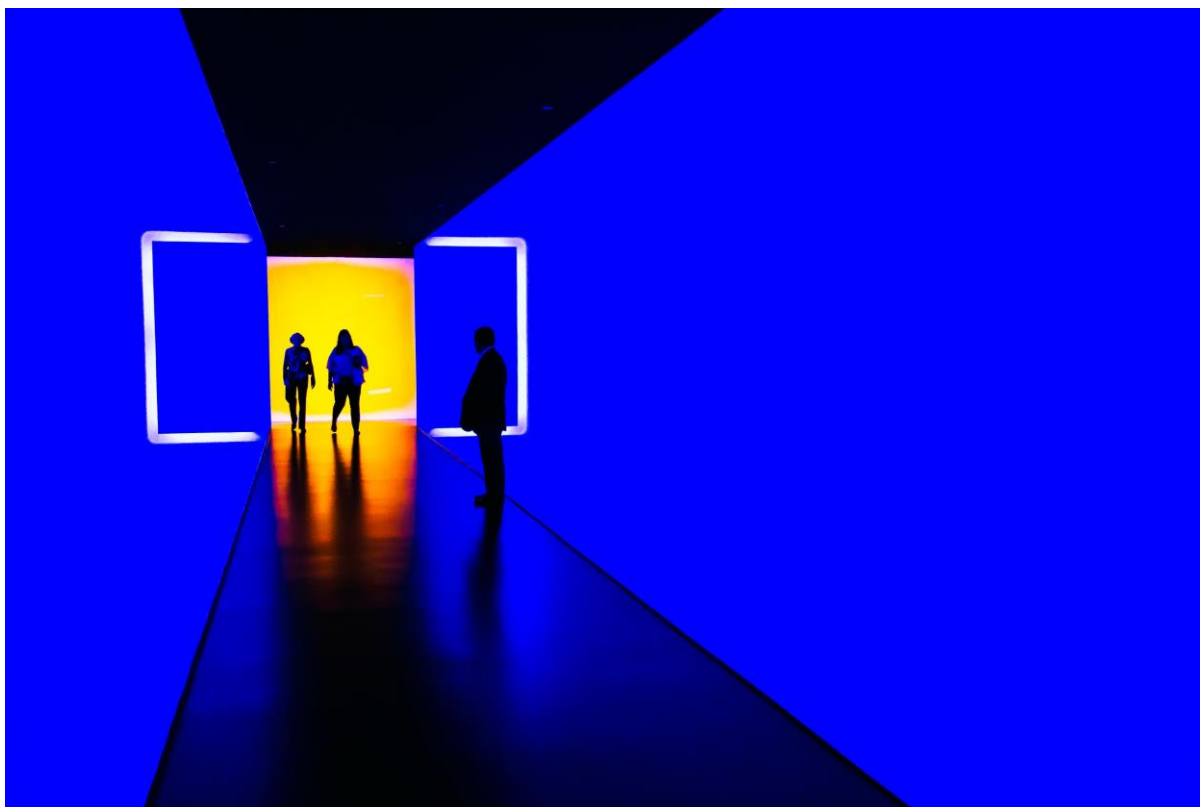
- Research and innovation
- Innovation
- Innovation and market deployment
- ERC frontier research
- Training and mobility
- Programme co-fund
- Pre-commercial procurement
- Public procurement of innovative solutions
- Coordination and support
- Inducement prize
- Recognition prize



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.



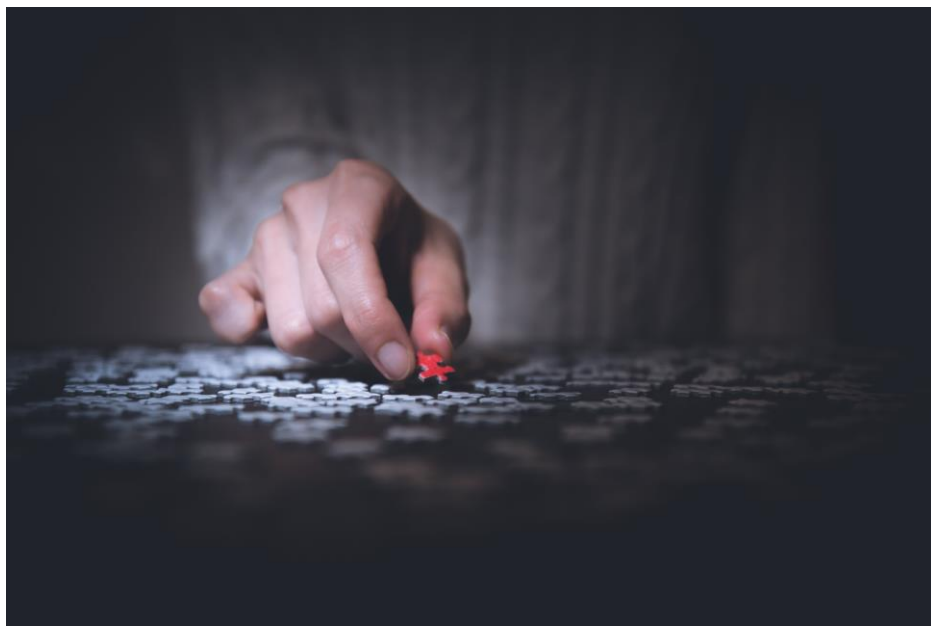
Actions embedding an innovation action and other activities necessary to **deploy an innovation in the market**, including the **scaling-up of companies**, providing Horizon Europe **blended finance** (a mix of grant-type funding and private finance)



**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
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Teşekkür ederim!

Thank you!



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COMPETITIVE
SECTORS
PROGRAMME



TÜBİTAK