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

Horizon Europe: Overview, Vision, Novelties, Approach

IPR, Legal and Financial Training: Proposal Preparation & Submission

Odysseas Spyroglou, KE2

Istanbul, 7-8 DEC 2021

Photo by Christian Lue on Unsplash

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Meet the instructor

Odysseas Spyroglou
Key Expert 2. Legal, Financial & IPR

- **Innovation consultant** with **engineering**, **ICT** and **financial** background.
- Over **20 years of working experience** in EU funded projects: preparing proposals, building consortia and managing projects under FP7, CIP, COSME, INTERREG, MED, H2020 and more.
- Specialise in **Project Management** & **Quality**, **Intellectual Property** and reengineering **business processes**.
- Designed and delivered more than **300 training sessions on Innovation** Management, IPR, Entrepreneurship, Proposal Writing, Project Management, financial administration.

20+
Years

60+
Projects

90m+
Funds

linkedin.com/in/ospyroglou

What we will cover

IPR, Legal and Financial Training: Proposal Preparation & Submission

DAY 1

- Overview of HE changes
- Administrative Procedures
- Legal Issues & Documents
- Cross Cutting Issues

DAY 2

- IP & IPR Concepts
- PM & Implementation
- Financials & Budget
- EC Portals

Use Sli.do

Post your questions, Vote in our polls

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The Vision of HE

Where Horizon Europe will focus

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

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

Where Europe stands?

benefiting from world–class research and strong industries

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Some key figures about Europe:

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

Where Europe stands?

In comparison with USA, Japan and S Korea

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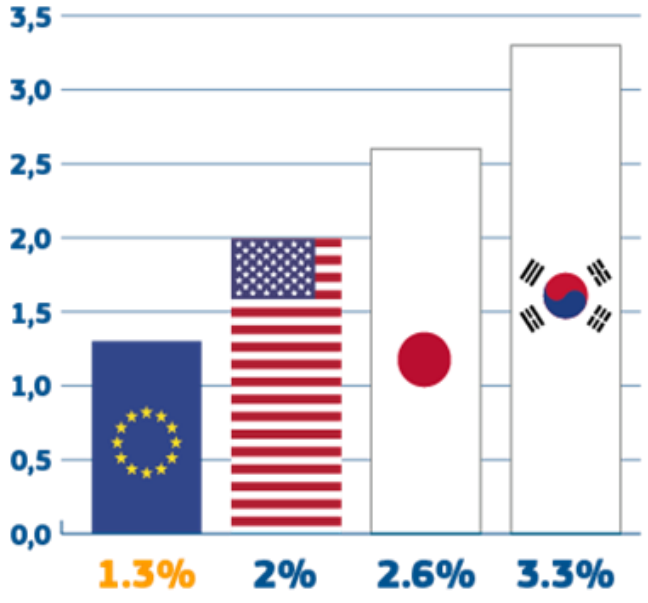

Business R&D investment

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

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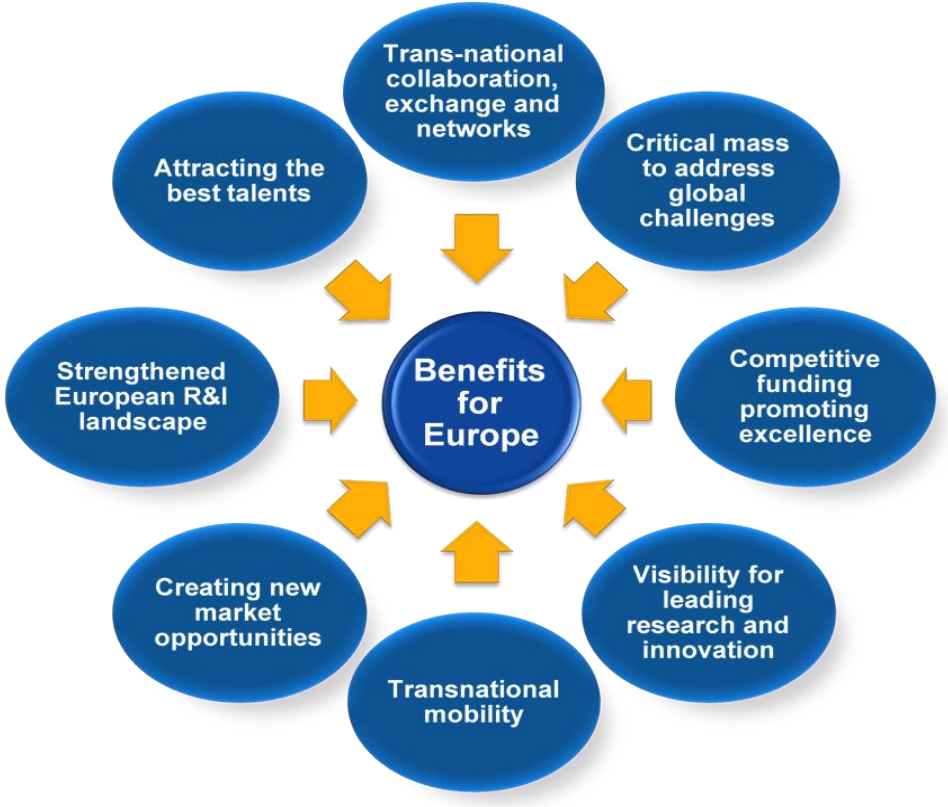
Added Value

added value through HE



Commission Priorities

Where EC is going to focus the next 4 years.

- **European Green Deal**
  First Climate-neutral continent, resource efficient economy
- **Europe fit for Digital Age**
  Empower people with new generation of Technology

Economy that works for People
Attractive investment environment, quality jobs

Stronger Europe in the World
Champion multilateralism and rules-based order

- **Promoting European way of Life**
  Protection of rule of law, justice, core values
- **New push for European Democracy**
  Bigger say to European citizens, protect democracy

Recovery Plan for EuropeL: Next Gen EU

Funding needs a budget

Understanding EU Multiannual Financial Framework 2021 - 2027

MFF 2021-2027 total allocations per heading

	MFF	NEXT GENERATION EU	TOTAL
1. Single Market, Innovation and Digital	132.8	10.6	143.4
2. Cohesion, Resilience and Values	377.8	721.9	1 099.7
3. Natural Resources and Environment	356.4	17.5	373.9
4. Migration and Border Management	22.7	-	22.7
5. Security and Defence	13.2	-	13.2
6. Neighbourhood and the World	98.4	-	98.4
7. European Public Administration	73.1	-	73.1
TOTAL MFF	**1 074.3**	**750.0**	**1 824.3**

All amounts in EUR billion.
Source: European Commission.

- **Next Generation EU** for post COVID19 recovery
- **>50%** targeted to R&I, digitisation, climate health, recovery, resilience
- **30%** of budget for **Climate Change**

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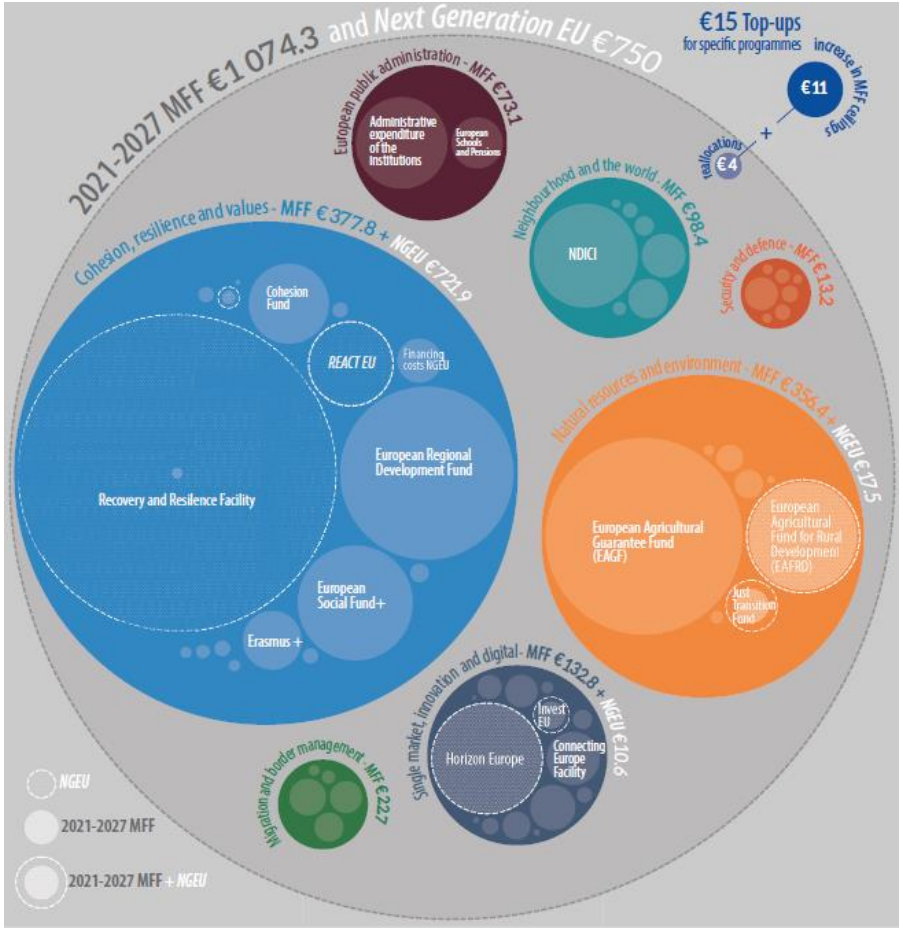

Budget & Programmes

How EU Programmes are structured

1. Single Market, innovation and digital
   - Horizon Europe | Invest EU
   - Digital Europe | Space programme
   - Connecting Europe
2. Cohesion, resilience and values
   - Cohesion Policy funds (ERDF, ESF, CF)
   - rescEU – Civil Protection
   - Health Programme | EU4Health | Interreg
   - Erasmus+ | Creative Europe | European Urban Initiative
3. Natural Resources and Environment
   - CAP | Just Transition | EAFRD | EMFF | LIFE
4. Migration and Border control
   - Asylum and Migration Fund
5. Security and Defense
   - European Defense Fund | Internal Security Fund
6. Neighbourhood and the world
   - Neighbourhood Instrument
   - Development & International Cooperation
   - Humanitarian Aid Instrument
7. Public Administration

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Structure of Horizon Europe

NEW

How Horizon Europe is organised

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H2020 vs. Horizon Europe

What are the main changes in structure?

Horizon 2020

Excellent Science	Industrial Leadership	Societal Challenges

European Research Council
Future Emerging Tech
MCSA
Research Infrastructures
	ICT //
	Nano, New-materials //
	Biotechnology // Space
	// Access to Risk // SME
	Innovation
		Health // Food // Energy
		// Transport // Climate
		// Inclusive Societies
		// Security

Horizon Europe

Excellent Science	Global Challenges & European Industrial Competitiveness	Innovative Europe
European Research Council MCSA Research Infrastructures	Health // Cluture, Creativity // Civil Security // Digital Insustry & Space // Climate, Energy // Food, Agri	European Innovation Council European Innovation Ecosystems European Inst. Of Innovation & Tech

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Pillar 1: Excellent Science

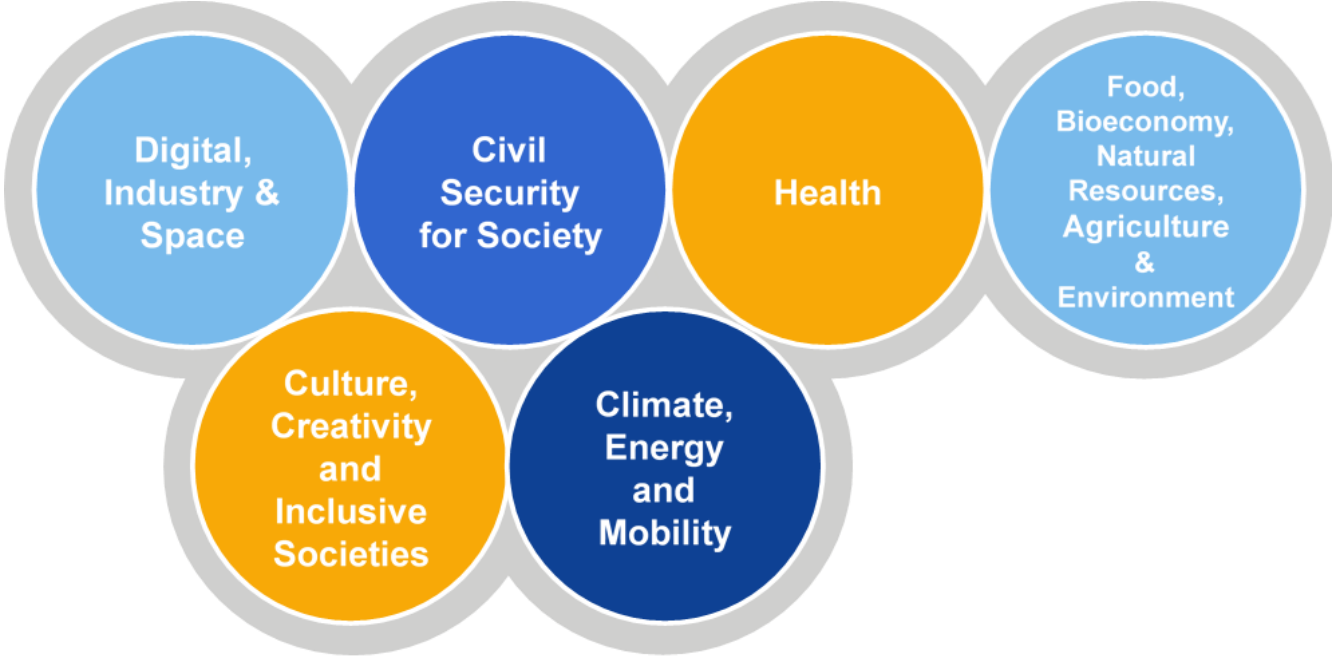
reinforcing and extending the excellence of the Union's science base

European Research Council (ERC)	Marie Skłodowska-Curie Actions (MSCA)	Research Infrastructures (RI)
Frontier research by the best researchers and their teams	Equipping researches with new knowledge and skills through mobility and training	Integrated and inter-connected world-class research infrastructures
Commission proposal: € 16.6 billion	Commission proposal: € 6.8 billion	Commission proposal: € 2.4 billion

Pillar 2: Global Challenges & European Industrial Competitiveness:

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

NEW



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Pillar 3: Innovative Europe

stimulating market-creating breakthroughs and ecosystems conducive to innovation

European Innovation Council (EIC)	European Innovation Ecosystem (EIE)	European Institute of Innovation and Technology (EIT)
Support to innovations with breakthrough and market creating potential	Connecting with regional and national innovation actors	Bringing key actors (research, education and business) together around a common goal for nurturing innovation

Horizontal Action: Widening ERA

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

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HE Key Strategic Orientations

Mirroring political priorities of the EU

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A // Digital Transformation

Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains to accelerate and steer the digital and green transitions through human-centred technologies and innovations

B // Environmental Protection

Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources to ensure food security and a clean and healthy environment

C // Sustainable Development

Making Europe the first digitally enabled circular, climate-neutral and sustainable economy through the transformation of its mobility, energy, construction and production systems

D // Resilience & Inclusivness

Creating a more resilient, inclusive and democratic European society, prepared and responsive to threats and disasters, addressing inequalities and providing high-quality health care, and empowering all citizens to act in the green and digital transitions

Titles outside the boxes are arbitrary, perception of the speaker.

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Orientation A

Open Strategic Autonomy with Key Digital, Enabling & Emerging Tech, Sectors & Value Chain

Open Strategic Autonomy (OSA): EU's desire to chart own course in global stage. Leadership. Openness, global engagement. Defending interests. Taking initiative.

IMPACT AREAS

- A competitive and secure data-economy
- Industrial leadership in key and emerging technologies that work for people
- Secure and cybersecure digital technology
- High quality digital services for all

1/ Health	2/ Culture	3/ Security	4/ Digital	5/ Climate
Health	Culture, Creativity and Inclusive Society	Civil security for society	Digital, Industry and Space	Climate, Energy and Mobility
Personalised health, disease prevention, diagnosis, treatment, well-being.	Cultural Heritage, arts, creative sectors & Industries, museaums, inclusive tourism	Cyber-security, privacy, protection of personal data, fundamental rights	Digital Transformation, Supply chain, Telecoms, 5G, AI, manufacture, Space, EO	Cleaner energy, mobility, green transition of value chains

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Orientation B

Restoring Europe's Ecosystems and Biodiversity, Managing Sustainably Natural Resources

IMPACT AREAS

- Enhancing ecosystems and biodiversity on land and in waters
- Clean and healthy air, water and soil
- Sustainable food systems from farm to fork on land and sea

1/ Health	4/ Digital	5/ Climate	6/ Food
Health	Digital, Industry and Space	Climate, Energy and Mobility	Food, Bioeconomy, Natural Resources, Agriculture and Environment
Impacts of environmental degradation, occupational, lifestyle risk, malnutrition, diets	Applications for agriculture, fisheries, forestry, environmental monitoring, navigation, Earth Observation	Cleaner, healthier environment, better mobility, energy generation, air quality	Restoring degraded ecosystems, biodiversity, disaster risks, sustainable agriculture, seafood production

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Orientation C

Making Europe first Digitally enabled circular, climate-neutral, sustainable economy

IMPACT AREAS

- Climate change mitigation and adaptation
- Affordable and clean energy
- Smart and sustainable transport
- Circular and clean economy

1/ Health	4/ Digital	5/ Climate	6/ Food
Health	Digital, Industry and Space	Climate, Energy and Mobility	Food, Bioeconomy, Natural Resources, Agriculture and Environment
Cleaner, greener, more circular, sustainable health. Prepare health system for climate change threats.	Climate neutral, zero pulluting, energy efficient industries by 2050. Secure, sustainable supply of raw materials. Smart mobility, atmospheric monitoring, EO.	Climate neutrality, zero pollution for energy, transport. Energy storage, smart industry, safer mobility.	Protection of primary production systems. Circular, zero-carbon industry. Eco footpring, blue economy, non-toxic materials.

Orientation D

Resilient, Inclusive and Democratic European society

IMPACT AREAS

- A resilient EU prepared for emerging threats
- A secure, open and democratic EU society
- Good health and high-quality accessible healthcare
- Inclusive growth and new job opportunities

1/ Health	2/ Culture	3/ Security	4/ Digital	5/ Climate	6/ Food
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
Comminicable & non-communicable diseases. Fair access to high quality health care. Early threat detection, public emergencies.	Social, economic, gender, cultural inequalities. Inclusion, non-discrimination social protection, empowerment. Migrants, cultural heritage protection.	Free movement, integrity of Schengen Area. Civil Security. Border management, Disaster Risk, Maritime Security, Migration-Asylum.	Access to technologies and skills. Copernicus, Galileo/EGNOS emergency, security.	New way to involve & engage citizens in low-carbon transition. Sustainable economy.	Innovative governance models. Sustainability and resilience Enhanced, shared view of knoeledge.

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Digital transformation

Modernising programme administration

NEW

- A **one-stop shop** for finding opportunities and managing all interactions
- **Paperless grant management** with fully electronic workflows for the entire project lifecycle
- **Faster** time to grant and to pay
- **Full transparency** on project and programme implementation
- **Easy access** to project results
- Search for partners for **exploiting project results**

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

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Co-Design Process

A participatory Design process worth examining

NEW

implement and learn

Are we 'biodegrading' as conveners?
What messages are we getting, and how do we learn from them?

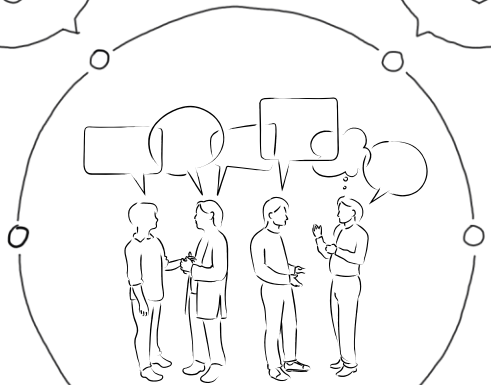
build the conditions

Are we the right people for this work? is it needed?
What's in it for others?
Who are we working with? What matters to them?
Who can take part?

What appears promising in the context?

immerse and align

Should we be doing this?
What do we already know?
Who should we partner with?
Where are the gaps?



design

How do we build on what is already strong?

discover

What is happening in the context?
What is already strong?
What are people longing for?

https://www.beyondstickynotes.com/what-is-codesign

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Co-Design of Strategic Plan

The participatory design process of EC

NEW

- Enlarge ownership of the programme
- Optimize effect of HE investments

8000 Responses

In Horizon Europe survey,
(28 June - 4 October 2019)

Physical (2019) **& Online** (2020, 2021)

Bringing together policymakers, researchers, entrepreneurs & public

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New approaches for impact

Best Target R&I investments to maximize impact

NEW

- **European Partnerships:** initiatives of EU – Private and/or Public for joint R&I activities. Co-Funder or Co-Programmed. *Examples:*
  - EP for AI, Data and Robotics
  - EP for Water4all: water security for the planet
  - EP for European Open Science Cloud
- **Missions: new concept.** Address global challenges, ambitious, inspirational, achievable goals.
  - Cancer
  - Adaptation to Climate Change
  - Ocean Seas and Waters
  - Climate Neutral and Smart Cities
  - Soil Health and Food

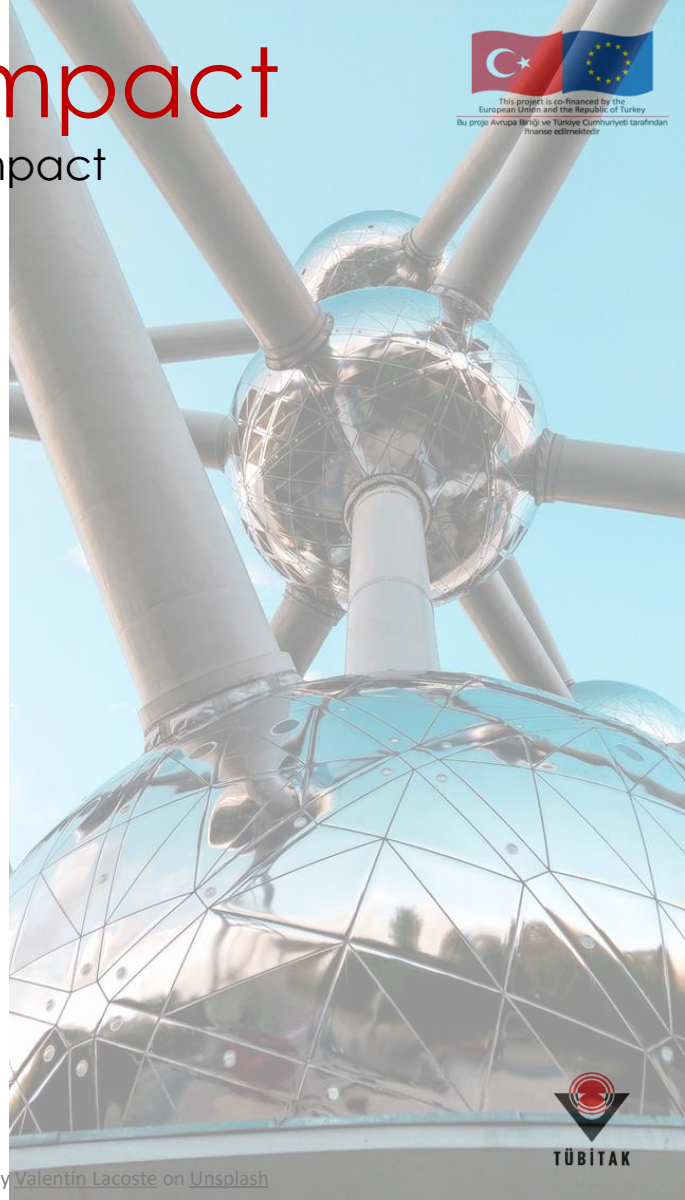


Photo by Valentin Lacoste on Unsplash

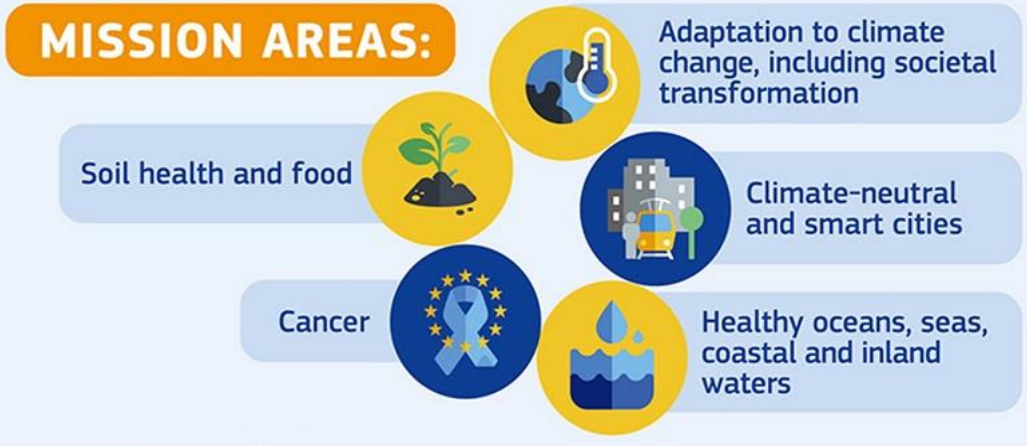
R&I Missions

A new approach for impact

NEW

Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact

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.



CoFunded European Partnerships

A new approach to European Partnerships

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**

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture,...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transforming Health Care Systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable and Productive Blue Economy
Risk Assessment of Chemicals	European Metrology (Art. 185 of the TFEU)	Europe's Rail	Water4All "Water security for the planet"
ERA for Health	Artificial Intelligence, Data and Robotics	Cooperative, Connected and Automated Mobility (CCAM)	Animal Health and Welfare*
Rare Diseases*	Photonics	Batteries "Towards a competitive European industrial battery value chain"	Agroecology "Accelerating Farming Systems Transition"*
One Health / Antimicrobial Resistance*	Made in Europe	Zero-emission Waterborne Transport	Agriculture of Data*
Personalised Medicine*	Clean Steel - Low Carbon Steelmaking	Zero-emission Road Transport (2ZERO)	Safe and Sustainable Food Systems*
Pandemic Preparedness* *Co-funded or co-programmed*	Processes4Planet	People-centric Sustainable Built Environment (Built4People)	
	Globally Competitive Space Systems**	Clean Energy Transition	
		Driving Urban Transitions to a Sustainable Future	

Institutionalised Partnerships (Art 185 or 187 of the TFEU)
Co-Programmed
Co-Funded

* Calls with opening dates in 2023-24
** Calls with opening dates not before 2022

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

NEW

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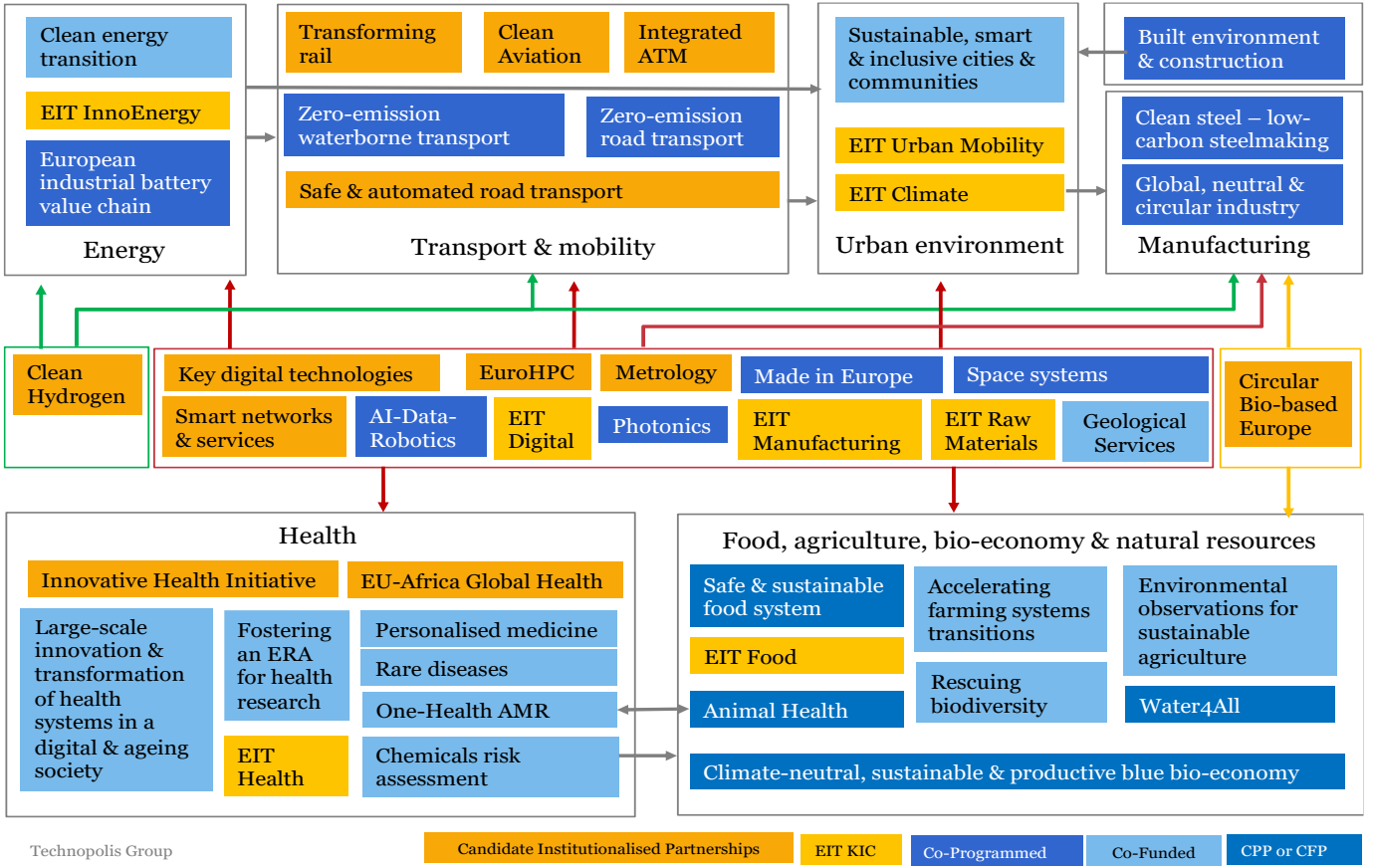
Overview of European Partnerships

Industry-orientated 'vertical' partnerships

'Horizontal' partnerships

Vertical partnerships in the societal application areas



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International Cooperation

EU Funding Management Modes

Aligning global efforts and investments, science diplomacy, synergies with EU external policy.

- **Collaborative Research & Innovation Initiatives:** projects w/ 3rd party countries, regions
- **International Mobility & Cooperation in Frontier Research:** support to brain circulation, internationalisation of EU companies (Pillar I, III)
- **EU in Multilateral Alliances:** climate change, sustainable food, biodiversity.
- **Policy Dialogues w/ 3rd countries, regions:** reinforcing strategic level of cooperation R&I, Open Science, ethics, safety & quality.

https://ec.europa.eu/info/research-and-innovation/strategy/strategy-2020-2024/europe-world/international-cooperation_en

Types of Actions

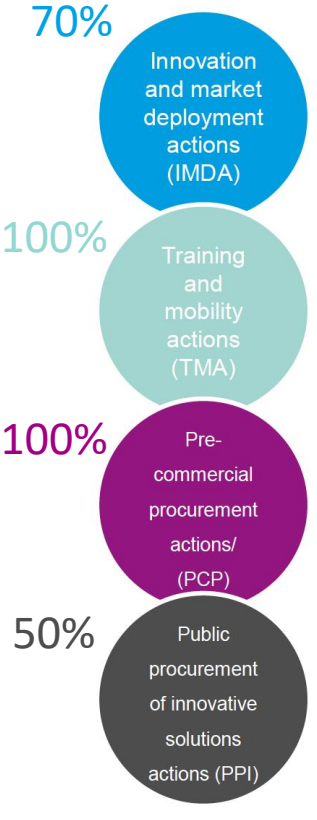
Work Programme 2021-2022 - 13. General Annexes

Activities to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution.

Activities to produce plans and arrangements or designs for new, altered or improved products, processes or services.

Activities that contribute to the objectives of Horizon Europe. This excludes R&I activities, except for 'Widening participation and spreading excellence'

A programme of activities established or implemented by legal entities managing or funding R&I programmes, other than EU funding bodies.



Activities that embed an innovation action and other activities necessary to deploy an innovation on the market. (EIC)

Activities that aim to improve the skills, knowledge and career prospects of researchers, based on mobility between countries and, if relevant, between sectors or disciplines. (MSCA)

Activities that aim to help a buyers' group to strengthen the public procurement of research, development, validation and, possibly, the first deployment of new solutions

Activities that aim to strengthen the ability of a buyers' group to deploy innovative solutions early

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The novelties of Horizon Europe

What changes Horizon Europe brings

EIC

Supporting breakthrough Innovations

EU Missions

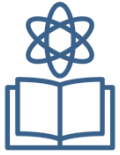
Solutions to Societal challenges

EU Partnerships

Focused funding

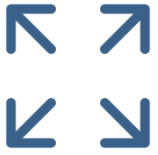
International Cooperation

Expanding possibilities



Open Science

FAIR Science



Widening

Increasing R&I Participation

Increased Impact

through Synergies

Simpler Rules

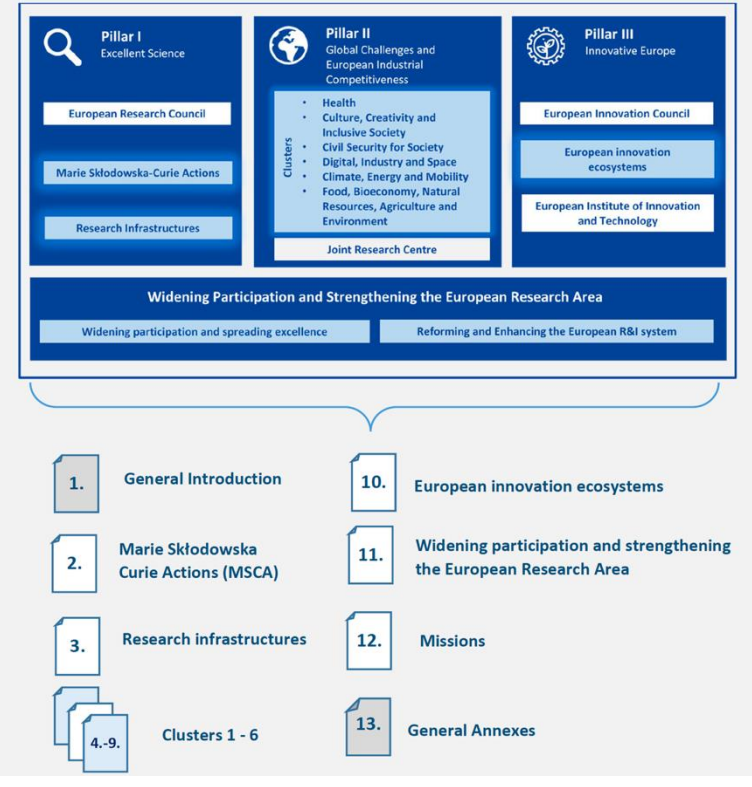
Easier Administration

Horizon Europe: Where to start

HE Work Programme 2021-22

Work Programme 2021-22

- General Intro
- MSCA
- RI
- 6 Clusters
- EIC
- WIDENING

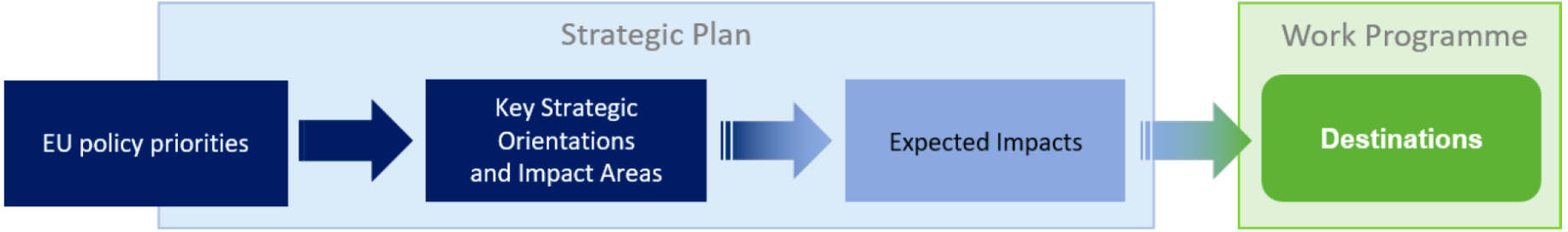


Documents :

- Strategic Plan 2021-24
- Work Programme 21-22
- Proposal Template
- Model Grant Agreement (MGA)

Wrap-up: Horizon Priorities for 2021-24

From EU priorities to Work Programme Destinations



6	4	32	3	6	34
Priorities of EU	Key Strategic Orientations	Expected Impacts	Pillars	Clusters	Destinations

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Wrap it up

From Strategic Plan to Work Programmes

- HE Overview and Vision
- How from Policies we get to Calls
- Commission Priorities 2019-24
- HE Strategic Plan 2021-2024
- Co-Design process
- 4 HE Strategic Orientations
- New approach to Impact
- Types of Actions
- Novelties of HE

Photo by Brett Jordan on Unsplash

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Post your questions, Vote in our polls

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Q&A

Time to ask your questions!

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