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Technical Assistance for Turkey in Horizon 2020 Phase-II
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Horizon Europe: From Strategic Plan to Work Programmes

Horizon Europe Infodays 2022

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REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY



What we will cover

From Policy to Action: Understand the process



- From EU priorities to Work Programme
- Strategic Plan 2021-2024
- Work Programmes 2021-22
- Key Strategic Orientations
- New approaches for impact

EU Goals & Values

From an economic to political union

- Peace & Wellbeing
- Freedom, Security and Justice
- Sustainable Development, balanced economic growth, price stability, market economy, full employment, social progress, environmental protection
- Social inclusion
- Scientific & Technological progress
- Economic, social territorial cohesion
- Cultural & linguistic diversity

EU Policies

From an economic to political union



Key Areas of EU Action

- Single Market, customs, competition, trade
- Employment & social Affairs
- Economic, social, territorial cohesion
- Transport
- Consumer Protection
- Energy
- Public Health
- And more...



Policy Instruments

- EU Legislation:
 - Regulations
 - Directives
 - Decisions
 - Recommendations
- EU Standards

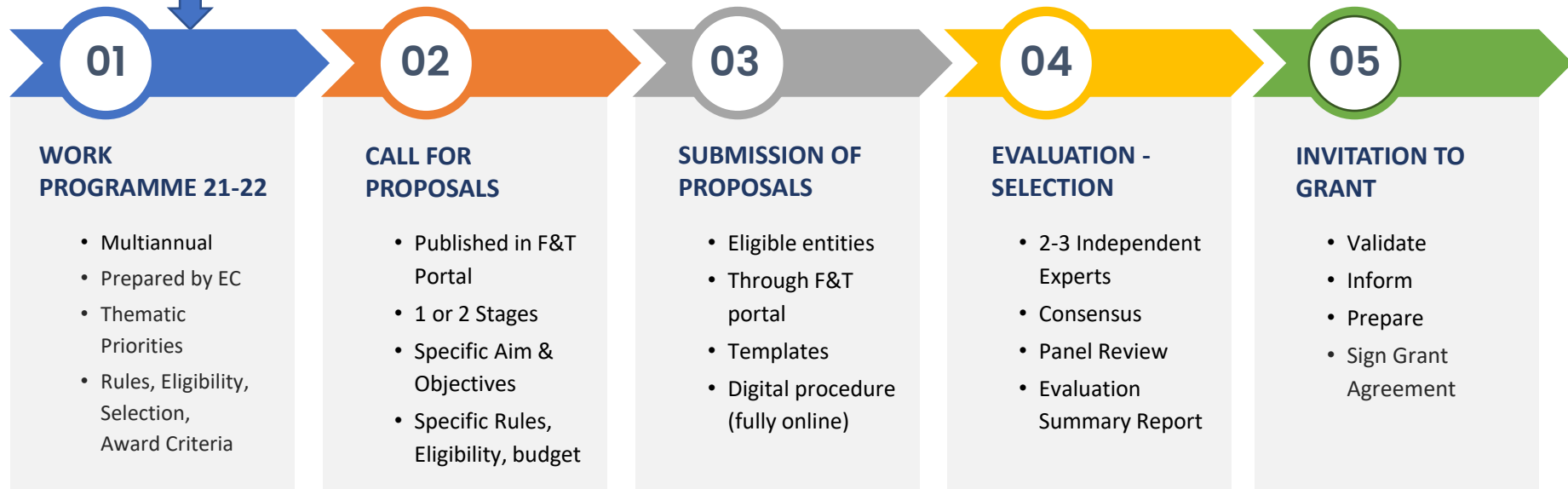
Funding Programmes

How it works?

The process of getting a grant

EU Priorities & MFF 2021-27

Horizon Europe Strategic Plan 2021-2024



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

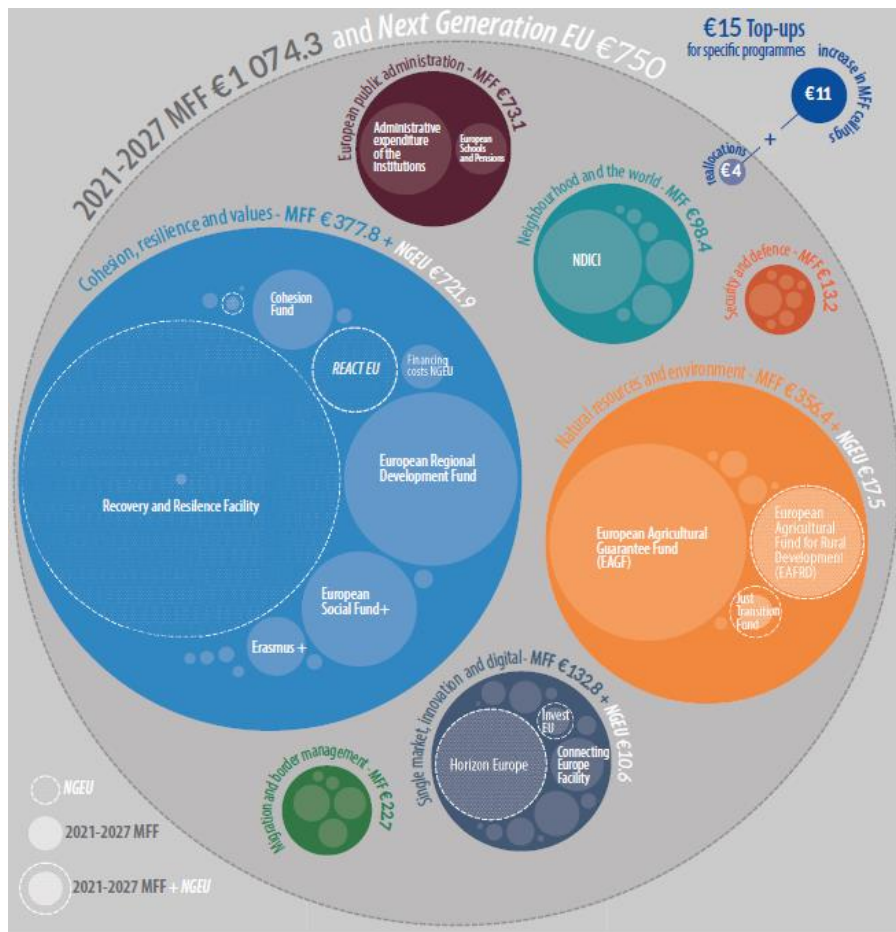
Understanding EU Multiannual Financial Framework 2021 - 2027

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**



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

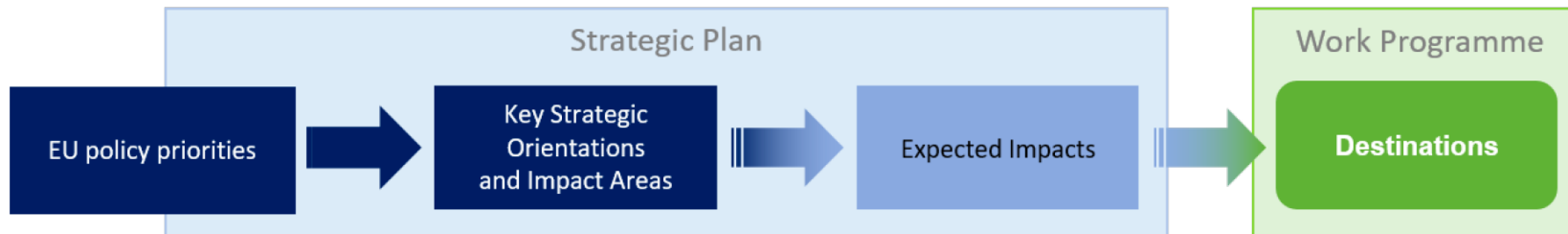
Development & International Cooperation

Humanitarian Aid Instrument

7. Public Administration

Horizon Priorities for 2021-24

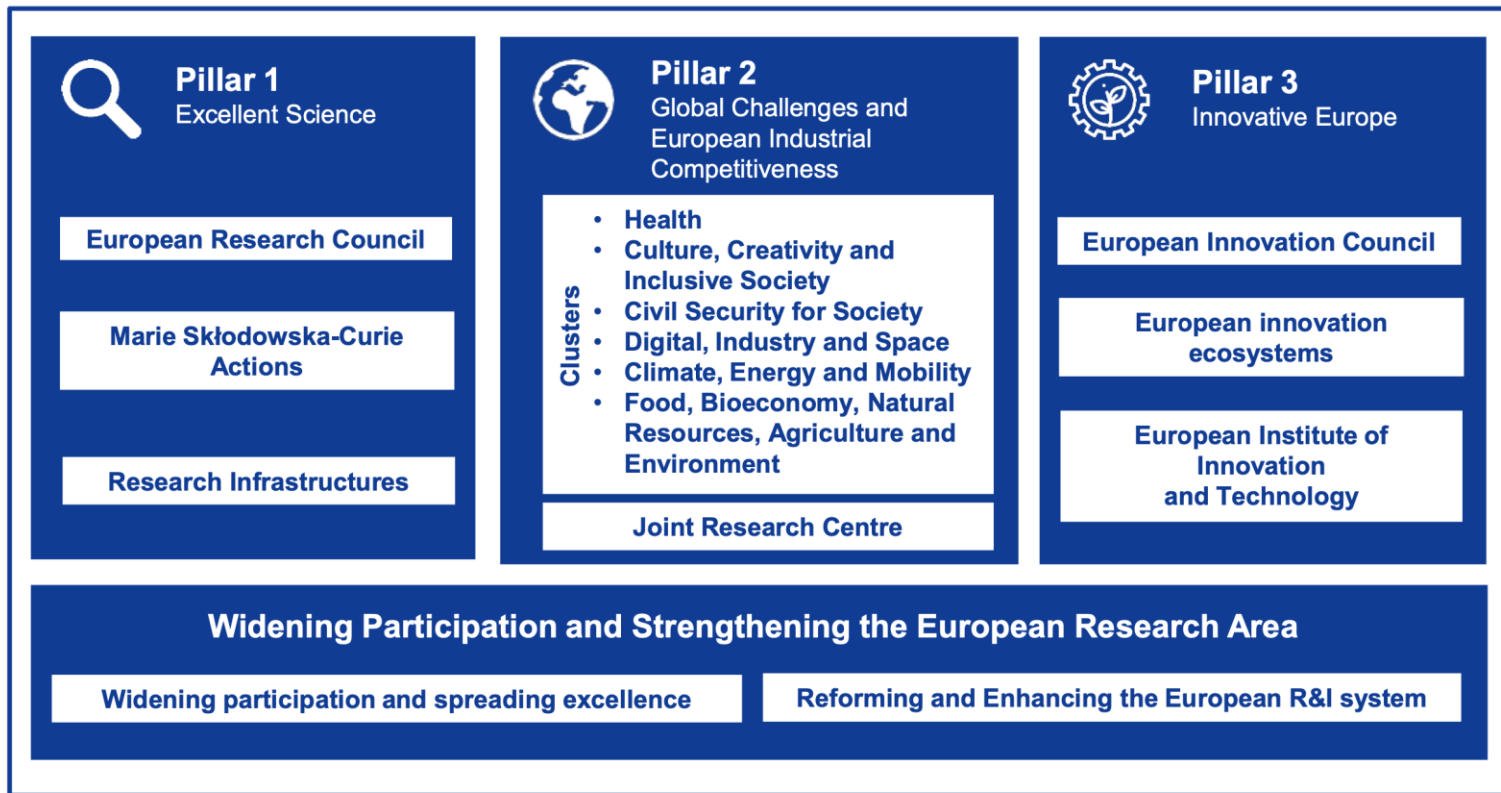
From EU priorities to Work Programme Destinations



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

Structure of Horizon Europe

How Horizon Europe is organised



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 // Culture, Creativity // Civil Security // Digital Industry & Space // Climate, Energy // Food, Agri	European Innovation Council European Innovation Ecosystems European Inst. Of Innovation & Tech

Co-Design Process

A participatory Design process worth examining

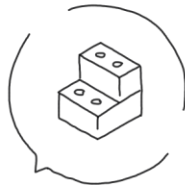
implement and learn

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

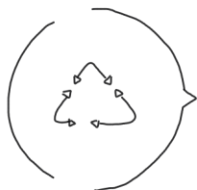


build the conditions

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?

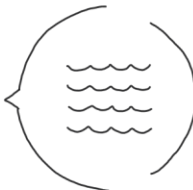


What appears promising in the context?



immerse and align

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



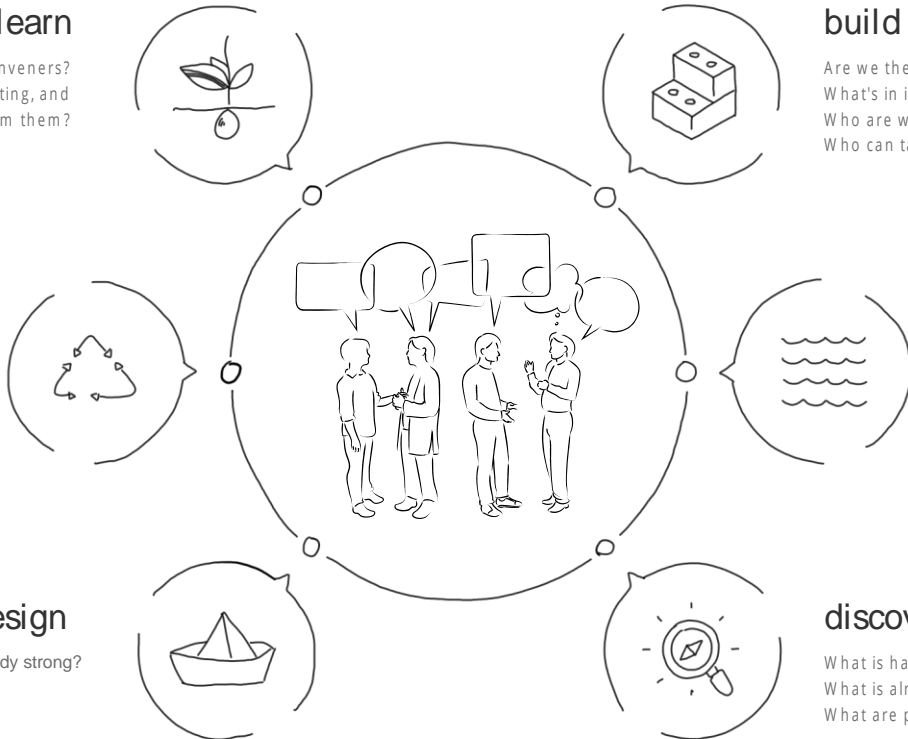
design

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>

Co-Design of Strategic Plan

The participatory design process of EC



- 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

HE Key Strategic Orientations

Mirroring political priorities of the EU

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 & Inclusiveness

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.

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, museums, 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

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

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 polluting, 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 footprinting, 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
Communicable & 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 knowledge.

New approaches for impact

Best Target R&I investments to maximize impact

- **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
- **EH 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

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.

8 Horizontal Topics

EU Funding Management Modes



² Regulation (EU) 2020/852 on the establishment of a framework to facilitate sustainable investment, and amending Regulation (EU) 2019/2088

- Relevant to all programme components
- Identified in Strategic Plan
- Should be addressed appropriately

An integrated approach

Cross Cutting key specific Issues



**Social Science &
Humanities (SSH)**

- Integration of SSH in all clusters
- Key component of R&I
- Specific topics flagged
- Assessment of Societal Impact (when necessary)



**Dissemination &
Exploitation (D&E)**

- Enhance R&I results dissemination, use, value increase
- Integrate results into EU higher education & training
- **New tools:** Results Platform, IP Booster, Synergies
- Design of project to “**beyond its end**”
- Uptake of assets, private investment, IP management



**Key Enabling
Technologies (KET)**

- Advanced Manufacturing // Advanced Materials // Life-science tech // micro-nano electronics & photonics // AI // Security & connectivity
- Across Clusters & Pillars

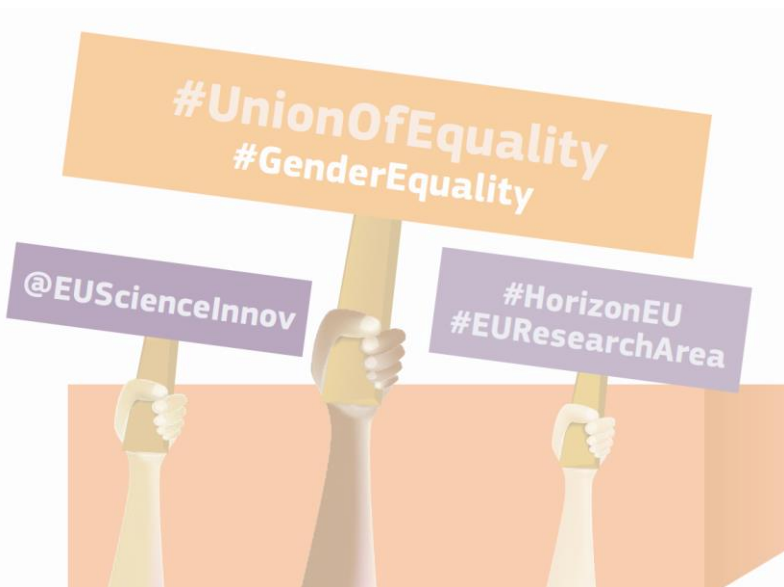


Social Innovation (SI)

- Advances in science & Tech / creative use of existing tech
- Combine new tech capabilities w/ organisational, social practices
- HE supports SI across all 4 strategic Orientations

Gender Equality & Inclusiveness

Cross Cutting key specific Issues



- Eliminate gender inequality
- Addressing unconscious bias, systemic barriers
- Integration of gender dimension
- Part of EC's Gender Equality Strategy 2020-25



Ethics and Integrity

Cross Cutting key specific Issues

- European Code of Conduct for Research Integrity
- Ethics Principles & legislation
- Ethical dimension of new technologies (AI, Environment)
- HE to develop training, educational material, Operating procedures
- Ethics & Privacy by design



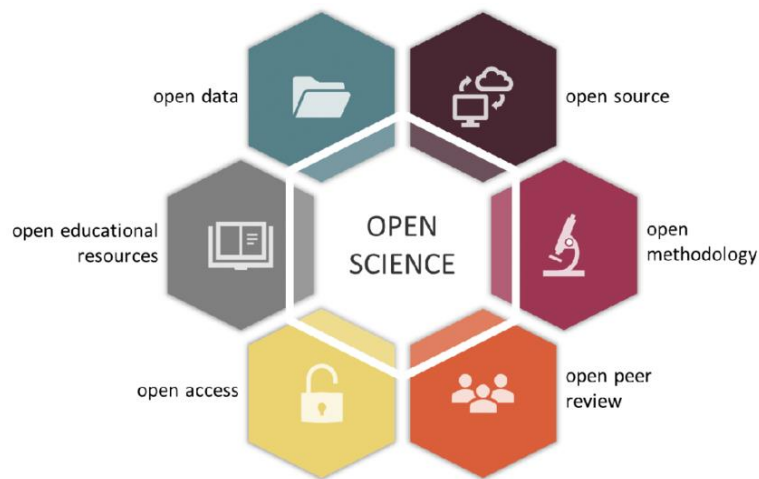


Image by Caterina Penone,
The Open Traits Network: Using Open Science principles to accelerate trait-
based science across the Tree of Life, DOI: [10.32942/osf.io/kac45](https://doi.org/10.32942/osf.io/kac45)

- Freely accessible scientific publications
- Early sharing of research results
- FAIR: Findable, Accessible, Interoperable and Re-usable data
- Reproducible results
- Societal engagement & responsibility
- European Open Science Cloud (EOSC)
- Rewards & Incentives for researchers
- Research Management Plan



EU Taxonomy

Cross Cutting key specific Issues

- Classification system, list of environmentally sustainable economic activities
- Enabler to scale up investment, implement Green Deal

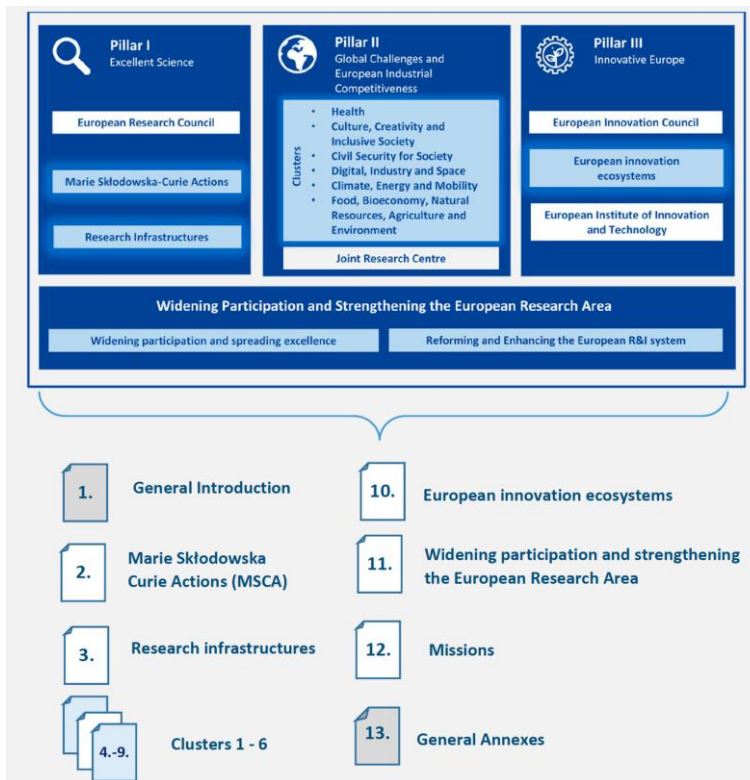
1. Climate change mitigation
2. Climate change adaptation
3. The sustainable use and protection of water and marine resources
4. The transition to a circular economy
5. Pollution prevention and control
6. The protection and restoration of biodiversity and ecosystems

Horizon Europe Work Programmes

How an HE Work Programme is structured

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)

Get ready for Horizon Europe Calls

How to prepare for HE



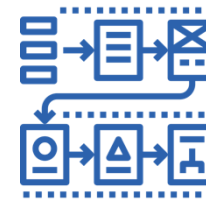
Study the Policies

- Strategic Plan 2021-24
- Strategic Plan Analysis
- General Intro of WP 2021-22



Identify your call

- Scan the WP to find a relevant call to your interests
- Study carefully the call text
- Study General Annex of WP



Start building

- Study the new Proposal Template
- Prepare your concept
- Build your consortium
- Legal Documents (MGA, CA)

Wrap it up

From Strategic Plan to Work Programmes

- EU Goals, Values & Policies
- 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
- 8 Horizontal topics
- Work Programmes 2021-22





Q&A

Time to ask your
questions!

Teşekkür ederim!

Thank you!

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