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

# Horizon Europe: Cross Cutting Issues

HE IPR, Legal and Financial Training: Proposal Preparation & Submission

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*Istanbul, 15 – 16 Sep 2022*

Photo by Christian Lue on Unsplash



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



# Horizontal or Cross Cutting Issues

Why are they so important in Horizon Europe

- **1 / Excellence**

- Compliance with “**do no significant harm**” principle (Article 17 of [Regulation \(EU\) No 2020/852](#) on the establishment of a framework to facilitate sustainable investment '**EU Taxonomy Regulation**')  
**Open Science**: Describe how appropriate open science practices are implemented and present Data management Plan

- **2/ Impact**

- Scientific, Economic/Technological, **Societal**  
**Communication, Dissemination, Exploitation**
- Strategy for the management of **Intellectual Property**

# 8 Horizontal Topics

## EU Funding Management Modes



<sup>2</sup> 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



<b>Social Science &amp; Humanities (SSH)</b>	<ul style="list-style-type: none"> <li>Integration of SSH in all clusters</li> <li>Key component of R&amp;I</li> <li>Specific topics flagged</li> <li>Assessment of Societal Impact (when necessary)</li> </ul>
<b>Dissemination &amp; Exploitation (D&amp;E)</b>	<ul style="list-style-type: none"> <li>Enhance R&amp;I results dissemination, use, value increase</li> <li>Integrate results into EU higher education &amp; training</li> <li><b>New tools:</b> Results Platform, IP Booster, Synergies</li> <li>Design of project to “<b>beyond its end</b>”</li> <li>Uptake of assets, private investment, IP management</li> </ul>
<b>Key Enabling Technologies (KET)</b>	<ul style="list-style-type: none"> <li>Advanced Manufacturing // Advanced Materials // Life-science tech // micro-nano electronics &amp; photonics // AI // Security &amp; connectivity</li> <li>Across Clusters &amp; Pillars</li> </ul>
<b>Social Innovation (SI)</b>	<ul style="list-style-type: none"> <li>Advances in science &amp; Tech / creative use of existing tech</li> <li>Combine new tech capabilities w/ organisational, social practices</li> <li>HE supports SI across all 4 strategic Orientations</li> </ul>



# Social Sciences and Humanities

Cross Cutting key specific Issues

- **What is SSH Integration ?**  
the process of specifically  
including research and  
researchers from Social Sciences  
and Humanities disciplines in  
projects contributing **solutions**  
**to pressing societal challenges.**

**Democracy** - Strengthen European democratic values and address issues of trust.

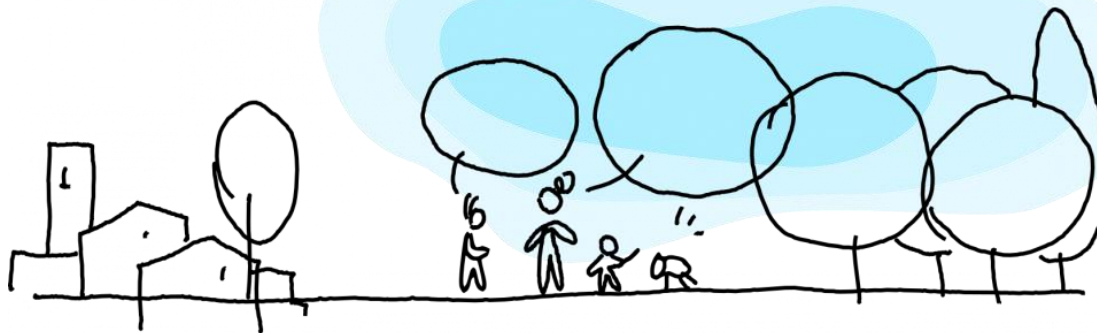
**Cultural Heritage** - Safeguard and promote our **cultural heritage**.

**Social and economic transformations**

Take advantage of socio-economic transformations and promote **inclusive growth** while responding to globalization, and technological advancements.

# An example of SSH integration

## The New European Bauhaus



New European Bauhaus  
beautiful | sustainable | together

- **Inclusive, accessible spaces:** diverse cultures, disciplines, genders and ages. Inclusive economy, distributed wealth, affordable spaces.
- **Sustainable solutions:** built environment and planet's ecosystems. Regenerative approaches inspired by natural cycles that replenish resources and protect biodiversity.
- **Enriching experiences:** beyond material dimension, inspired by creativity, art and culture.

# Dissemination and Exploitation

Cross Cutting key specific Issues

**Communication:** promote the project throughout the full lifespan.  
Inform and reach out to society and show the activities performed, and the  
use and the benefits the project will have for citizens.



**Dissemination:** public disclosure of results by appropriate  
means, e.g. scientific publications in any medium.

**Exploitation:** use of results in further research and innovation activities e.g.  
commercial exploitation, developing, creating, manufacturing and marketing a  
product or process, creating and providing a service, or in standardisation activities.



# Key Enabling Technologies

Cross Cutting key specific Issues



Europe prioritises research and Innovation support for these  
6 broad Key Enabling Technologies (KETs)

- [advanced manufacturing](#)
- [advanced materials](#)
- life-science technologies
- [micro/nano-electronics and photonics](#)
- [artificial intelligence](#)
- [security and connectivity](#)

**non-sectoral,  
strategic, and  
integrated approach to  
the development and  
deployment of new  
technologies to  
promote industrial  
modernisation.**



# Social Innovation

## Cross Cutting key specific Issues



The European Commission's objective is to encourage market uptake of innovative solutions and stimulate employment.

Social innovations are **new ideas** that:

- meet social needs,
- create social relationships and
- form new collaborations.

These innovations can be:

- products,
- services or
- models addressing unmet needs more effectively.

# Examples of Social Innovation

Cross Cutting key specific Issues



<https://mapping.si-drive.archiv.zsi.at>

Project	Description
<b>10 Bin Yesil Ev</b> TenThousand Green Homes	A project aiming to provide clean and inexpensive energy to residents of the town of Nilüferin Bursa province of Turkey. The project includes an energy cooperative.
<b>UlusalTohumTakasMerkeziSayfasi</b> National CentreforSeedExchange	The community believes that local and organic seeds need to be revived rather than hybrids seeds or seeds with genetically modified organisms. They distribute seeds in their activities.
<b>Kadin EmeginiDegerlendirmeVakfi</b> Foundation for the Support of Women's Work	KEDV is a non-profit dedicated to improve life qualities and economic opportunities as well as strengthening the leadership of women in regional development.

# 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



**New eligibility** criterion to get access to Horizon Europe funding: public bodies, research organisations and higher education establishments **will be required**, starting in 2022, to have a **gender equality plan (GEP)** in place.

# 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



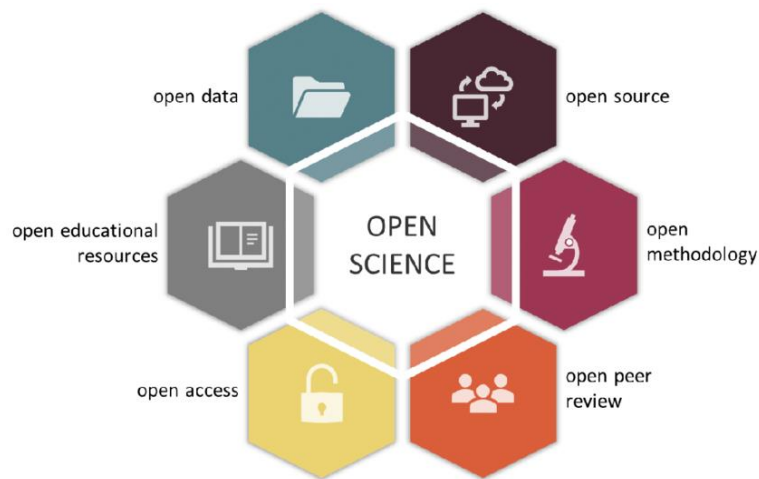


Image by Caterina Penone,  
The Open Traits Network: Using Open Science principles to accelerate trait-  
based science across the Tree of Life, DOI: [10.32942/osf.io/kac45](https://doi.org/10.32942/osf.io/kac45)

- 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



# European Open Science Cloud

EOSC Portal - A gateway to information and resources in EOSC



[Contact us](#) [Portal Home](#) [Catalogue & Marketplace](#) [Providers Dashboard](#) [Providers Documentation](#) [Login](#)



Find resource...

All resou... ▾



My EOSC Marketplace

🏠 Resources

All Resources

318

CATEGORIES

Access physical & einfrastructures	64
Aggregators & Integrators	20
Processing & Analysis	148
Security & Operations	29
Sharing & Discovery	60
Training & Support	32
Other	9

FILTERS

Scientific Domains

Find or choose from the list below	
<input type="checkbox"/> Generic	152
<input type="checkbox"/> Natural Sciences	111
<input type="checkbox"/> Earth & Related Environmental Sciences	58
<input type="checkbox"/> Biological Sciences	37
<input type="checkbox"/> Physical Sciences	12
<input type="checkbox"/> Computer & Information Sciences	8
<input type="checkbox"/> Chemical Sciences	6

## Resources

1-10 of 318 results

Sort by: by name A-Z ▾

10 20 30 Items on page

### 100 Percent IT Trusted Cloud

Infrastructure as a Service (IaaS), secured by cutting edge cybersecurity software co-developed by the University of Oxford

Organisation: 100 Percent IT  
Scientific domain: Generic

☐ Add to comparison ☐ Add to favourites



ORDER REQUIRED

### 3DBionotes-WS

3DBIONOTES-WS a web application designed to automatically annotate biochemical and biomedical information onto structural models.

Organisation: Centro Nacional de Biotecnología (CSIC)  
Scientific domain: Computer & Information Sciences

☐ Add to comparison ☐ Add to favourites

FULLY OPEN ACCESS



Laniakea@ReCaS

SUGGESTED

Chipster

SUGGESTED

 Automatic deployment of virtual Galaxy

 NGS and microarray analysis in the cloud.



# 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

[https://ec.europa.eu/info/business-economy-euro/banking-and-finance/sustainable-finance/eu-taxonomy-sustainable-activities\\_en](https://ec.europa.eu/info/business-economy-euro/banking-and-finance/sustainable-finance/eu-taxonomy-sustainable-activities_en)

# Teşekkür ederim!



# Thank you!

## Q&A

Time to ask your  
questions!



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