

**Net4***Society*

# Building multidisciplinary collaboration: SSH and STEM collaboration

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# Topic with explicit requests

Extract of the topic HORIZON-CL4-2023-TWIN-TRANSITION-01-36

“Modelling industry transition to climate neutrality, sustainability and circularity (Processes4Planet partnership) (RIA)”

The proposals should [...] lead to the development of an integrated modelling capacity allowing to capture **the economics and behavioural aspects of demand**, production and trade of materials, as well as **techno-economic trajectories** of the industrial sectors identified.

That would include [...] concepts from system dynamics modelling (for materials flows and stocks), **techno-economic modelling** (for the economics of production costs, elasticity of demand or trade effects), **macro-economic modelling** (**socioeconomics impacts**), as well as agent-based modelling (choices of materials or technologies).

# Topic with generic standard sentence

“This topic requires the **effective contribution** of social sciences and humanities (SSH) **disciplines** and the involvement of SSH **experts, institutions** as well as the inclusion of relevant SSH **expertise**, in order to produce meaningful and significant impact”.

What should I do?

Who are the scientists I need to involve?

How is it possible to integrate their work with ours?

At what stage of the proposal should SSH researchers be involved?

What activity are they going to do?

Where do I find these expertise?

How much budget will they need?



# Evaluation of STEM – SSH collaboration

Check [support video](#) on the Portal!



## Social Sciences and Humanities (SSH)

**Social Sciences and Humanities** *Assessing the effective contribution of social science and humanities disciplines and expertise as part of the scientific methodology of the project.*

When the **integration of SSH is required**, applicants have to show the roles of these disciplines or provide a justification if they consider that it is not relevant for their project. **A proposal without a sufficient contribution/integration of SSH research and competences will receive a lower evaluation score.**

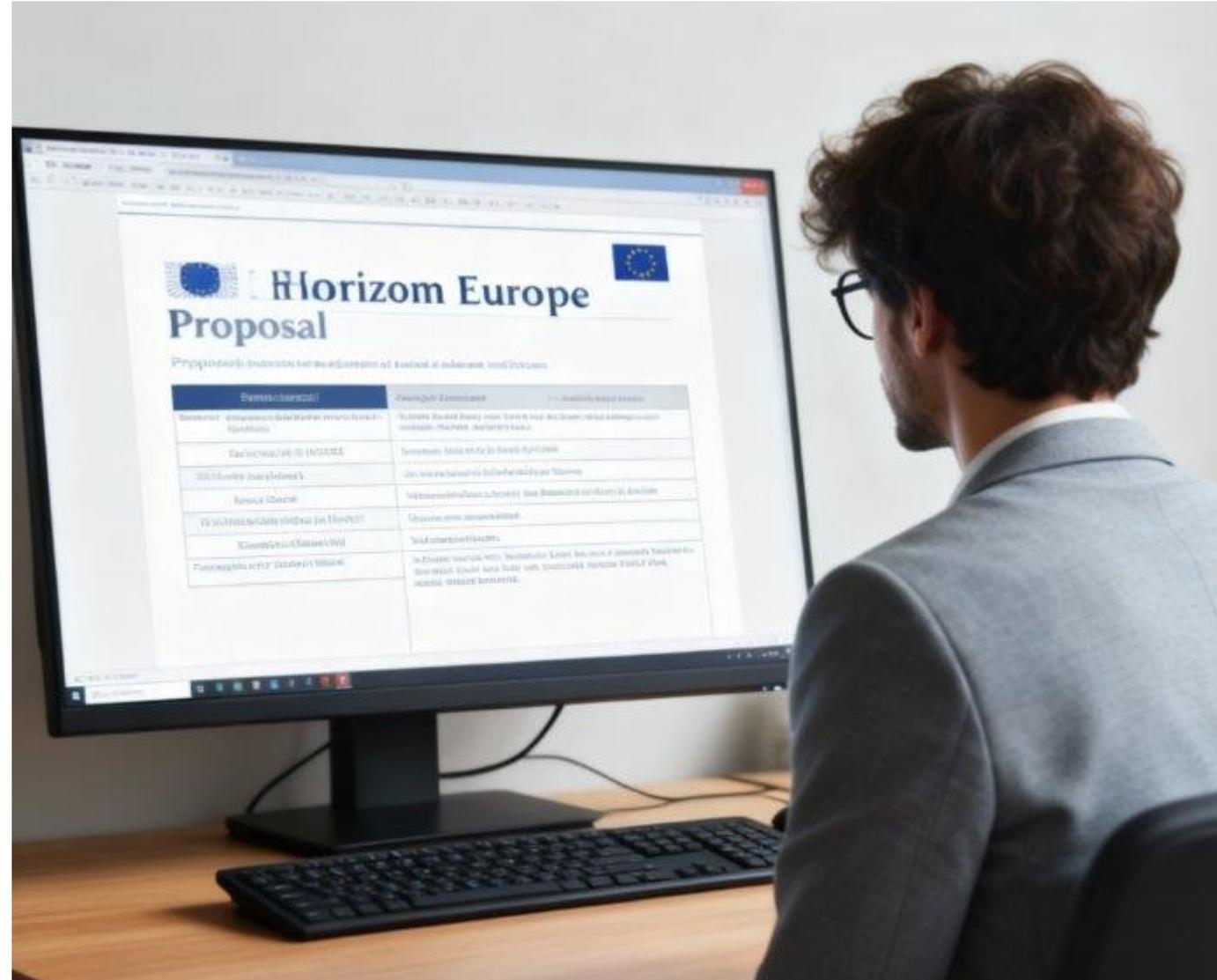
### Why integrating social sciences and humanity matters?

Many societal challenges that need to be addressed through research and innovation are too complex to be overcome by a single scientific discipline. Technical solutions are often preconditions for new policy outcomes, but in themselves insufficient to have a meaningful impact. The lasting societal impacts that policy-makers seek are often equally reliant on insights from social sciences and the humanities. A few examples:

- **Social sciences** (law, ethics, psychology, political sciences...) are an essential component of the research responses to public health emergencies.
- **Economics and political science** are major components of projects focusing on socio-economic evaluation of climate-change impact.
- **Psychology, cultural considerations, ethics and religion** are essential to improve the support to palliative care patients.
- **Linguistics, cultural studies and ethics** are an important part of projects aiming to develop AI enhanced robotic system and improve human/robot interaction.
- **Economics and social sciences** are essential to devise effective measures of recovery after the Covid-19 pandemic.

# SSH-STEM collaboration in the Proposal Template

- ▶ in **Part A**, administrative information
  - ▶ checkbox for SSH
  - ▶ profile of participants
- ▶ in **Part B**, description of work
  - ▶ excellence
  - ▶ implementation
  - ▶ impact



# Early Involvement of SSH experts

- ▶ Active Involvement of SSH Researchers in the definition of :
  - ▶ Research questions
  - ▶ Objectives
  - ▶ Additional perspectives
  - ▶ Social and economic impacts
- ▶ This will contribute in:
  - ▶ Identifying new approaches
  - ▶ Developing solutions/technologies that address societal and community needs



# A proposal rooted in a multidisciplinary approach

- ▶ All disciplines should be properly represented and positioned within the proposal/project:

## Truly Interdisciplinary Workplan

- ▶ Interdependent work packages
- ▶ Joint deliverables based on both SSH and STEM data
- ▶ Co-authored publications in interdisciplinary/multidisciplinary journals
- ▶ Joint dissemination & communication activities (all audiences matter)



# Differences as added value

- ▶ Activities and tasks designed to turn differences into added value rather than limitations
  - ▶ Creation of a shared glossary to prevent terminological misunderstandings
  - ▶ Project activities that support mutual learning and methodological exchange
  - ▶ Frequent meetings for discussion, alignment, and knowledge sharing
- ▶ A thoughtful and aware management and coordination team capable of fostering an environment conducive to dialogue and exchange



# Thanks for your attention

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