

SEREN4 Online Info Day & Brokerage event
12 May 2020

Social Sciences and Humanities
in Security research

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What?

*“Social sciences and humanities (SSH) are given an enhanced role as a **cross-cutting** issue aimed at improving **our assessment of and response to complex societal issues**. Therefore, where relevant, the research and innovation chain should **include contributions from SSH disciplines**”*

Topics flagged for Social sciences and Humanities

*“Many topics invite **contributions** from the SSH, **often in collaboration with non-SSH disciplines** such as natural and physical sciences, health sciences or technology. These topics have been '**flagged**' and can be found on the Participant Portal.”*

Past vs Present



Programme
dedicated to SSH, No reference
to disciplines working together
in the evaluation criteria



SSH is a
cross-cutting issue, trans-
disciplinarity is part of the
evaluation criteria



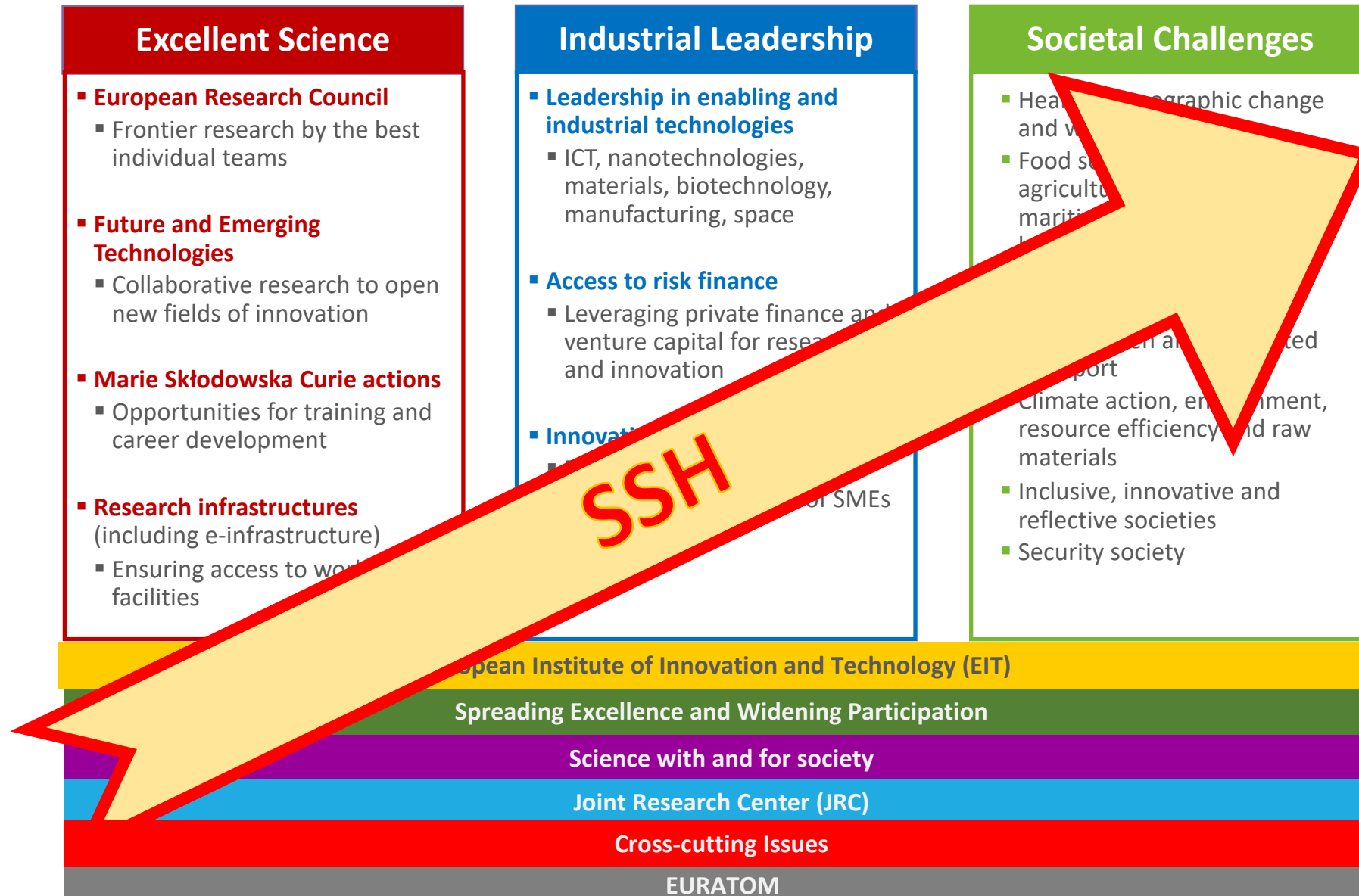
WORKING INDEPENDENTLY



WORKING TOGETHER



Socio-economic Sciences and Humanities integrated in Horizon 2020



SSH aspects include...



Human behaviour and choices,
lifestyles and well-being



Human geography and
demographic trends

Historical considerations



Economic analysis and business
models



Legal, institutional and political
frameworks



Variations across social groups

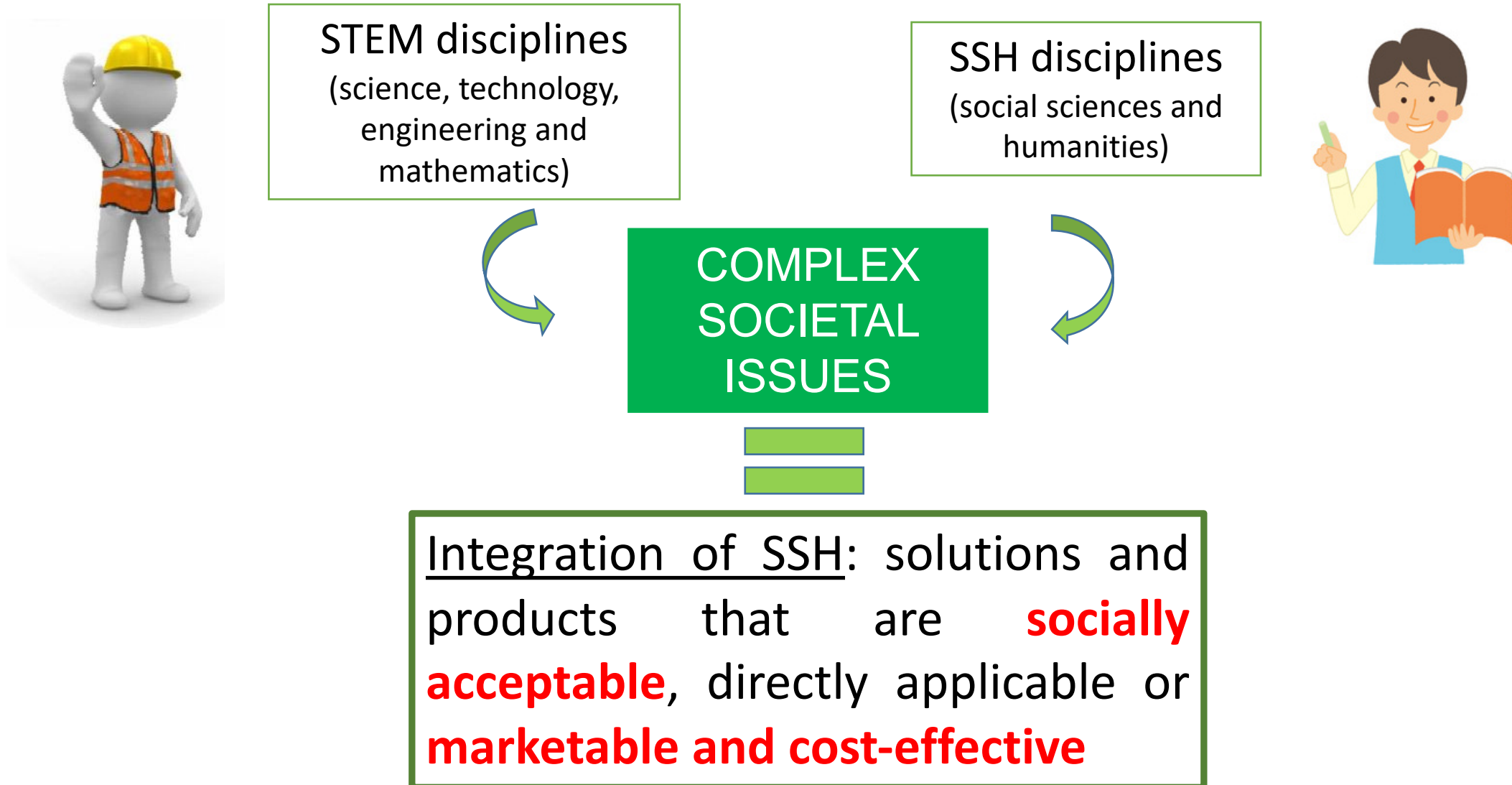
Cultural and anthropological aspects



Social innovation



Why are the SSH disciplines integrated?



Why do I need to integrate SSH in my proposals?

- ✓ **SSH experts are called by EC** to contribute to framing the questions and issues to be tackled in Horizon 2020
- ✓ **Topics are 'flagged' for SSH by EC** , i.e. they point to SSH research as integral part of the expertise needed to properly address the issue outlined in the topic
- ✓ **Proposals submitted** for topics 'flagged' for SSH should contain meaningful, integrated contributions from SSH researchers
- ✓ **Evaluation panels include SSH expertise:** evaluators briefed on how to identify and evaluate SSH aspects



How can Net4Society help you?

Net4Society - Website

Net4Society is the international network of National Contact Points for the Societal Challenge 6 ("Europe in a changing world: inclusive, innovative and reflective societies") in Horizon 2020.

Every year Net4Society issues 2 different version of the SSH Opportunities aimed at supporting researchers in the identification of SSH-flagged topics



SSH Opportunities document – LONG VERSION



Call – Artificial Intelligence and security

SU-AI01-2020: Developing a research roadmap regarding Artificial Intelligence in support of Law Enforcement

Specific Challenge

As indicated in the Coordinated Plan on Artificial Intelligence and in the Cybersecurity Joint Communication 19, there is a need to better understand: how AI-based systems, services and products could enhance the objectives of the security sector; how AI technologies can be protected from attacks; how to address any potential abuse of AI for malicious purposes; how to establish cybersecurity requirements for AI. From the Law Enforcement point of view, these dimensions have to be analysed in a longer term, taking into account that the potential AI benefits for Law Enforcement Agencies (LEAs) are threefold. (i.e., through: 1) proactive policing (from reactive to anticipative policing); 2) data analysis (e.g., connecting the dots, discovering criminal patterns and defragmenting LEA actions), and 3) identity checks (improving detection, targeting and interdiction).

Scope

Proposals under this topic should provide an EU AI roadmap for LEAs, meeting their specific operational and cooperation needs, by identifying, in a longer-term perspective: the key areas in which AI would be beneficial for LEAs, the key areas in which it could pose a threat to security, cybersecurity requirements for AI based technologies in use or to be used by LEAs as well as means of prevention and mitigation of malicious use of AI for criminal activities. As such this project would not only need to continuously interact (in a cluster mode) with projects funded under SU-AI02-2020 and SU-AI03-2020 but also provide recommendations for further work to be done under Horizon Europe, Digital Europe, or the Internal Security Fund as well as for policy and market uptake. **The objective is to develop a research roadmap that provides answers to, a.e., following questions: What are and will be the AI needs of LEAs in their daily work? What are the major research gaps in the area of AI in support of LEAs? What are the challenges that need to be addressed, both from the fighting crime, including cybercrime and terrorism, and from improving cybersecurity (re)actions? Which approaches might be desirable? What needs to be set up for test and evaluation? How to prevent and mitigate malicious use of AI for criminal activities and terrorism?** Starting from these considerations, **proposals must demonstrate commitment to produce recommendations that are updated continuously, and at least every 6 months, about the following lines of action: which AI based technologies, systems and solutions could support/enhance the work of LEAs and how, what the corresponding restraints (including ethical and legal) are, as well as related risks, security challenges and protection measures. The proposal shall provide specific real-life LEAs scenario examples and evidence supporting their recommendations. The proposing consortium is expected to incorporate relevant security practitioners, researchers, civil society organisations and LEAs.** **As indicated in the introduction of this call, proposals should foresee resources for clustering activities with other projects funded under this call to identify synergies and best practices.** The Commission considers that proposals requesting a contribution from the EU of around EUR 1.5 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected impact

Short term:

- Effective contribution to the overall actions of this call;
- Medium and longer term:
- In the longer term perspective, identification of key areas in which AI would be beneficial for LEAs, meeting their operational and collaborative needs, and of key areas in which it could pose a threat to security;
- A carefully planned roadmap in order for Law Enforcement to benefit as much as possible from the AI based technologies, systems, solutions, including their protection;
- Increased awareness regarding the state of the art and trends in AI-based criminal activities (short-, mid- and long-term).

Type of action	Coordination and Support action
Deadline	27 August 2020
Call identifier	H2020-SU-AI-2020
Topic information	Link

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SSH Opportunities document – SHORT GUIDE

Net 4 Society



Opportunities for Researchers from the
Socio-economic Sciences and Humanities
(SSH) in Horizon 2020

A Short Guide on SSH-relevant Topics
Work Programme 2018/2020
Updated Version

SC7. Secure Societies – Protecting Freedom and Security of Europe and Its Citizens

Title	SSH Aspects	Submission Deadlines (dd.mm.yyyy)
SU-AI01-2020 Developing a research roadmap regarding Artificial Intelligence in support of Law Enforcement	Proposals should produce recommendations about the following lines of actions: which AI based technologies, systems and solutions could support/enhance the work of LEAs and how, what the corresponding restraints (including ethical and legal) are, as well as related risks, security challenges and protection measures. Main keywords: ethics, law https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ai01-2020	27.08.2020
SU-AI02-2020 Secure and resilient Artificial Intelligence technologies, tools and solutions in support of Law Enforcement and citizen protection, cybersecurity operations and prevention and protection against adversarial Artificial Intelligence	Proposals should take into account the existing EU and national projects in this field, as well as build on existing research and articulate a legal, ethical and practical framework. Main keywords: ethics, law, political science https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ai02-2020	27.08.2020

SC7 Flagged topics still open in 2020

Call - Artificial Intelligence and security



- SU-AI01-2020: Developing a research roadmap regarding Artificial Intelligence in support of Law Enforcement ; Main keywords: **ethics, law**



- SU-AI02-2020: Secure and resilient Artificial Intelligence technologies, tools and solutions in support of Law Enforcement and citizen protection, cybersecurity operations and prevention and protection against adversarial Artificial Intelligence; Main keywords: **ethics, law, political science**



- SU-AI03-2020: Human factors, and ethical, societal, legal and organisational aspects of using Artificial Intelligence in support of Law Enforcement; Main keywords: **ethics, law, political science, gender studies, sociology**

SC7 Flagged topics still open in 2020

Call - Security



- SU-DRS01-2018-2019-2020: Human factors, and social, societal, and organisational aspects for disaster-resilient societies; Main keywords: **finance, sociology, management, economics, political science, media studies**



- SU-DRS02-2018-2019-2020: Technologies for first responders; Main keywords: **sociology, law, ethics, gender studies**



- SU-FCT01-2018-2019-2020: Human factors, and social, societal, and organisational aspects to solve issues in fighting against crime and terrorism; Main keywords: **psychology, law, anthropology, sociology**



- SU-FCT02-2018-2019-2020: Technologies to enhance the fight against crime and terrorism; Main keywords: **psychology, law, anthropology, sociology, ethics**

- SU-FCT03-2018-2019-2020: Information and data stream management to fight against (cyber)crime and terrorism; Main keywords: **psychology, sociology, linguistics, ethics, law**

- SU-BES01-2018-2019-2020: Human factors, and social, societal, and organisational aspects of border and external security ; Main keywords: **economics, sociology, law, demography, gender studies, ethics**

SC7 Flagged topics still open in 2020

Call – Digital Security



- SU-DS02-2020: Intelligent security and privacy management ; Main keywords: **ethics, economics, political science, auditing, management, public and institutional administration, law**



- *SU-DS03-2019-2020: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises ; Main keywords: **ethics, law***
- *SU-DS04-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches ; Main keywords: **ethics, law***