Showcase



latest





advances

Problem: the European Union has identified that...

Cooperation and knowledge-sharing between STEM and SSH is sort of a "one-way street", in which the SSH researchers bring a lot of knowledge and value without receiving much in response. (2017: 54)

http://ec.europa.eu/research/social-sciences/index.cfm



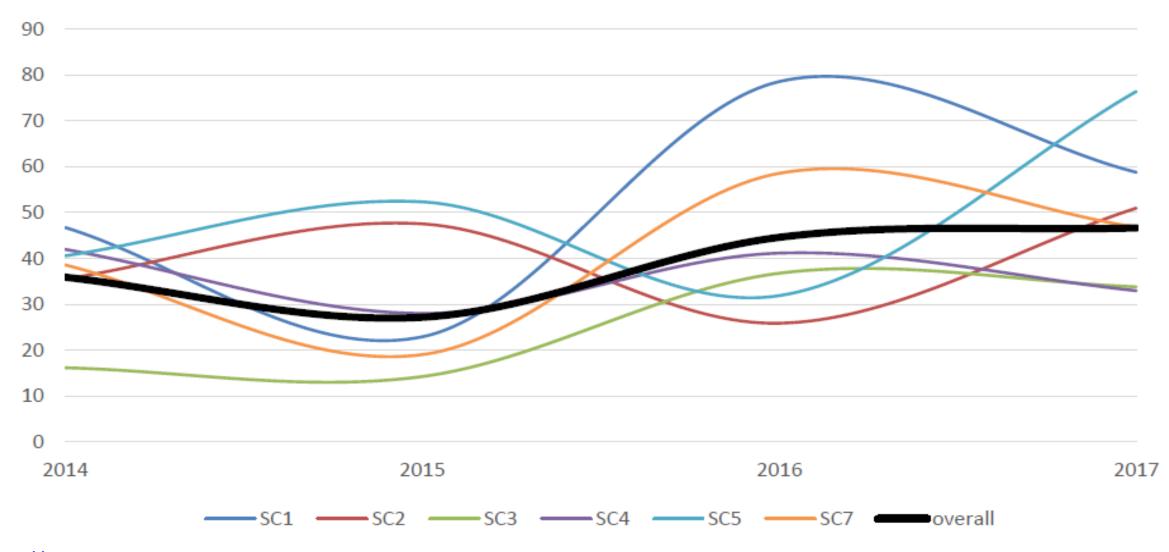






| Discipline prevalence in projects funded under SSH flagged topics | | |
|---|--|--|
| Disciplines and clusters of disciplines | Number of projects that include partner- level expertise | Share of projects that include partner-level expertise |
| Economics | 904 | 34% |
| Political Science, Public Administration | 344 | 13% |
| Non research activities | 293 | 11% |
| Sociology | 222 | 8% |
| Business/Marketing | 216 | 8% |
| Human geography | 159 | 6% |
| Communication | 108 | 4% |
| Psychology | 96 | 4% |
| Humanities/Arts | 95 | 4% |
| Law | 91 | 3% |
| Education | 84 | 3% |
| History | 46 | 2% |
| Anthropology/ Ethnology | 17 | 1% |
| Demography | 1 | 0,04% |

Fig. 3: Annual share of budget per Societal Challenge flagged for SSH integration¹⁹



¹https://www.ssh-impact.eu

²https://ec.europa.eu/programmes/horizon2020/en

³https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-nextframework-programme_en

Some good news

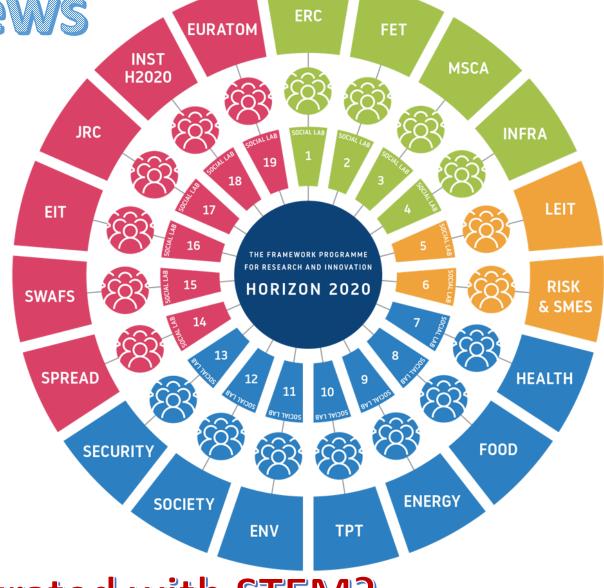
Europe has realized the untapped resource of SSH research and has the ambition to become a global pioneer of "integrating" SSH across its research funding programmes. The Lamy Report on "Horizon Europe" (starting 2021) emphatically states that "Missions ... will, by design, fully integrate social sciences and humanities (SSH)."

(1) Pascal Lamy et al., "LAB-FAB-APP. Investing in the European Future We Want," Report of the independent High Level Group on maximising the impact of EU Research & Innovation Programmes (Brussels: European Commission, July 2017 doi:10.2777/477357

- (2) http://data.consilium.europa.eu/doc/document/ST-15102-2018-INIT/en/pdf
- (3) Net4Society, Keys to successful integration of SSH Social Sciences and Humanities in H2020

https://www.net4society.eu/_media/170110_Factsheet_Expert%20meeting_INTEGRATION_N_def.pdf

The question is>



How might SSH be better integrated with STEM?

Can RRI help?

Can RRI Responsible Research and Innovation create synergies between STEM & STEAM by means of SSH?

Ethics

(Gender)Equality
Diversity
Inclusion

Governance

Open Science

Public Engagement

Science Education





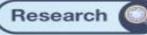
Along with the rapid emergence of digital technologies (artificial intelligence, DNA mapping, robotics, nanotechnology, 3D printing, biotechnology and the internet of things') business and industry leaders are calling for *Soft skills* to enable their workers to adapt to a fluid working landscape.

Soft skills include the ability to work with others, verbal communication, creative and critical thinking, active listening and active learning, and a disposition towards lifelong learning.

These capabilities are deemed to be more important than high academic achievement for IT workers in the 'fourth industrial revolution'

Infosys. (2016). Amplifying human potential: Education and skills for the fourth industrial revolution.

www.experienceinfosys.com/humanpotential



Citizen Science Data analysis

Disciplinary knowledge/terminology

Ethics/integrity

Grant application writing

Interdisciplinarity

Literature use/management

Open Access publishing

Open Data management

Open Education

Open Evaluation

Open Licensing

Open Methodology

Open Source

Intercultural awareness/communication

Intersectoral awareness/experience

Project/time management

TRANSFERABLE SKILLS

Early-Career

Researchers

Career planning/assessment CV writing

Career Development

Interview techniques

Job searching/application

Skills documentation/verification Skills gap identification/development

Digital

Information accessing/retrieval Information presentation/visualisation Information processing/exchange Software usage/development Programming

Communication

Academic writing

Formal correspondence

Oral presentation

Science for non-technical audiences

Science for policy making

Social media/webinar usage



Cognitive

Abstraction/creativity Analysis/synthesis Critical thinking/problem solving Organisation/optimisation

Enterprise



Commercialisation Entrepreneurship Innovation/knowledge transfer Intellectual Property Rights (IPR) Legal/business standardisation Patenting

Teaching & Supervision



Course development/assessment Exam preparation/assessment Mentoring/supervising students Teaching and learning theories/methods

Interpersonal

Conflict management Discipline/perseverance Diversity awareness

Leadership/team.work

Negotiation

Independence/responsibility

Networking

Rhetoric/argumentation

Stress tolerance

Taking on responsibility



Mobility

Foreign language skills

European Council for Doctoral Candidates and Junior Researchers >> http://eurodoc.net/

MODEL OF GOOD PRACTICE: the SELFIE PROJECT

Assessment tool to evaluate Digital Competences in schools

