

TORCH has designed a route to bring together R&I trends and researchers from its five partner institutions to create a transdisciplinary SDG-driven Common Science Agenda based in the establishment of a strategic research challenge list.

### METHODOLOGY

An innovative methodological approach with a multi-step participatory process:



Data collection



Institutional Analysis



Challenge production



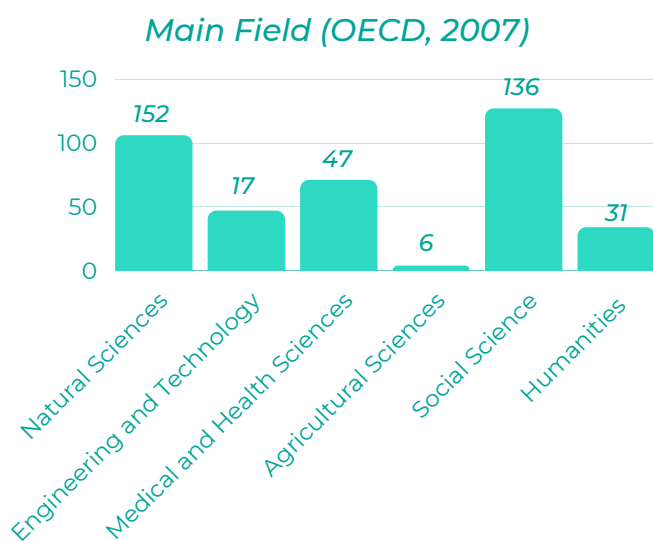
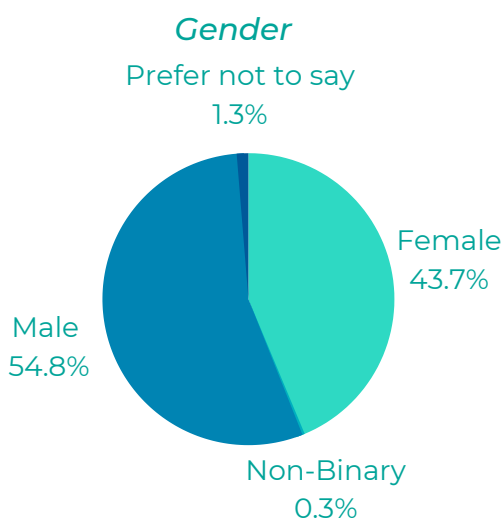
Bibliographic Networks Analysis

### STEP 1 | DATA COLLECTION HIGHLIGHTS

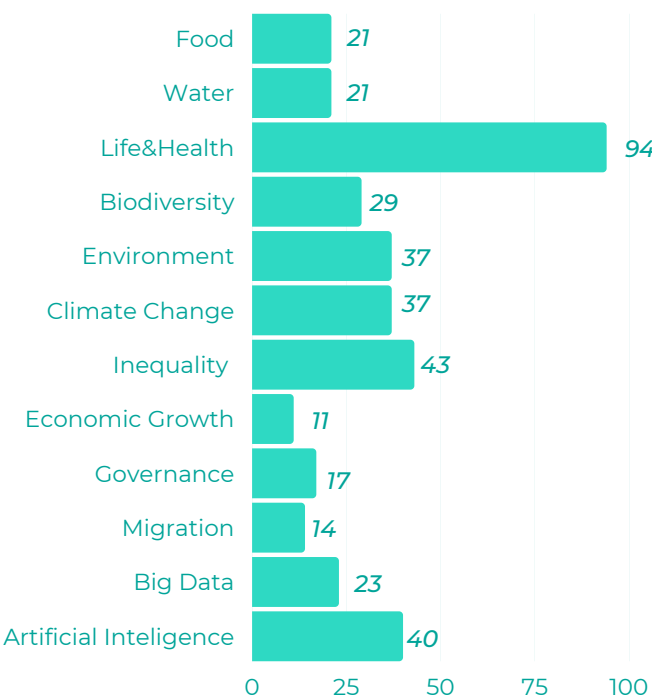
A research area questionnaire carried out with TORCH five partner institutions researchers to link their scientific expertise and interests with the TORCH thematic areas and related SDGs.



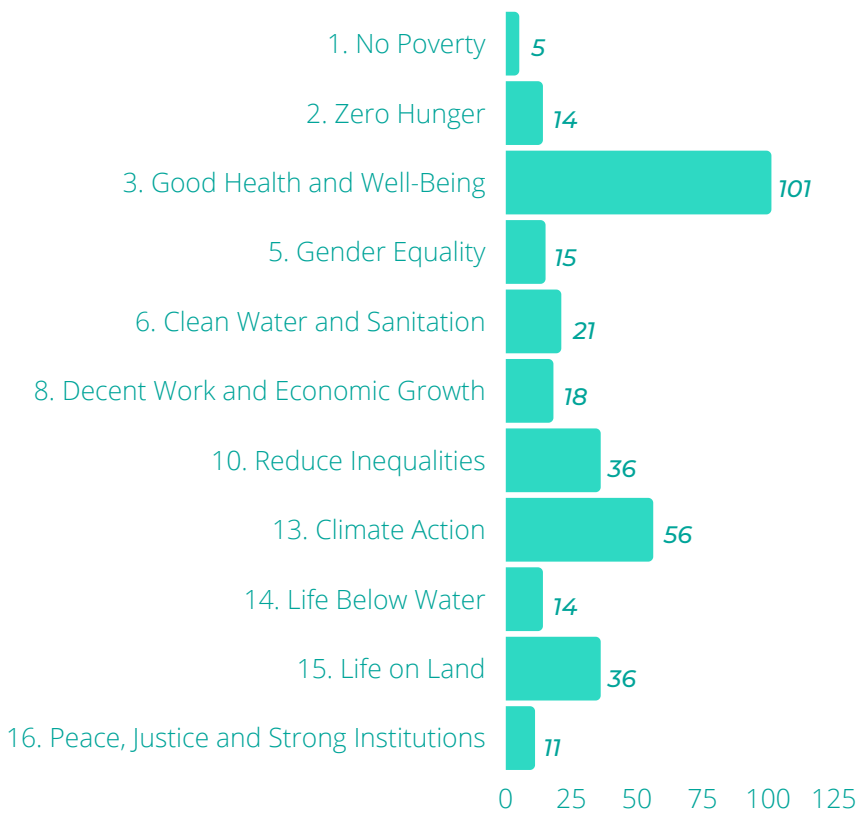
**389**  
RESEARCHERS



#### Researchers related with TORCH Thematic Areas



#### SDG (Researchers %)



### STEP 2 | INSTITUTIONAL ANALYSIS

Partner results breakdown

#### Input

- Questionnaire analysis
- Institutional research plans

#### Outcome

- List of Potential Researchers
- 3 selected SDGs

### STEP 3 | CHALLENGE PRODUCTION

SDG-Expert Focus Groups

- Preparation: Challenge Proposal Survey
- Organisation of 3 SDG-Focus Groups

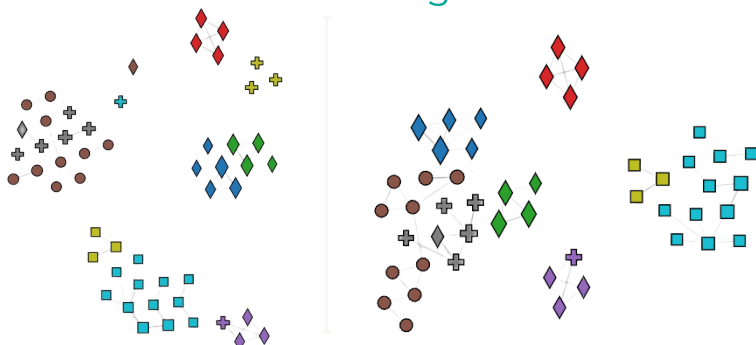
#### Outcome

- Defined challenge list

### BIBLIOGRAPHIC NETWORKS ANALYSIS

An interactive tool to consolidate common research challenges

With the results of the questionnaire and through a transversal methodological scale, a bibliographic analysis tool was created to learn more on the current state of the art from alliance's collaborations, helping to establish a knowledge base of TORCH members.



# RESULTS | CHALLENGE LIST

The outcome of the multi-step analysis resulted in a list of six challenges related to selected SDGs that TORCH would be developing during the second phase of the project:

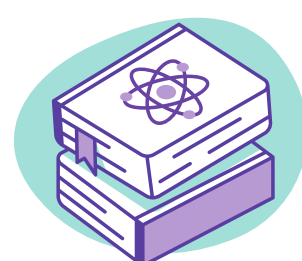


## SDG3-C1: 'ACTIVE: Adult Child and Teenage participation In physical activity across Europe'

Objectives: to compile information on existing databases of the volume of physical activity in children, teenagers and adults in the countries involved in the CHARM-EU network, at both national and regional levels, with the purpose of providing a toolkit containing a catalogue of key information to help interested stakeholders when assessing the effectiveness of programs and policies.

## SDG3-C2: 'Prevention and preparedness of negative effects of climate change on vector-borne infectious diseases.'

Objectives: Climate change is altering the biology of invertebrates transmitting pathogens (insects, mites, nematodes, mollusks, etc.) by allowing certain species to colonize new territories, thus increasing the prevalence or risk of emergence of diseases affecting human populations. This challenge aim to develop activities that help to anticipate to these new risks and to mitigate their effects.



## SDG10-C1: 'Coping with digitalization and the transformation of the world of work as a new source of inequalities.'

Objectives: this challenge aims to fully investigate the risks of job losses, diagnose the employment related problems face by employees, employers and trade unions, and identify potential solutions to reduce the inequality derived from digital transformation of working, especially in the post-Covid era

## SDG10-C2: 'Designing better universities to fight against inequalities.'

Objectives: What is the role of universities in promoting or decreasing inequalities across different dimensions such as class, gender, race, geography, disability or sexual orientation for example? What are the causes that promote or decrease such inequalities within and by universities? At this challenge, researchers are especially interested in these questions with an eye to exploring ways in which universities can increase equality within and beyond their own institutions.

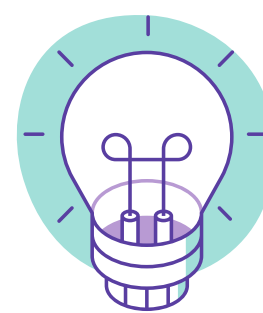


## SDG13-C1: 'Preventive Water Sustainable Management of Freshwater resources within a global change frameset (PWSM).'

Objectives: The main objective of this research challenge is to ensure the sustainable use of water, taking into account the needs of both people and natural ecosystems. The specific objective of this proposal is to increase the knowledge, awareness and rationalization of society regarding the demand and uses of water.

## SDG13-C2: 'Mapping Risks, Joining Funds, Taking Actions – Fostering Nature-based Solutions to Mitigate Climate-related Hazards'

Objectives: This research aims to first map climate-related hazards and identify the potential of nature-based solutions (NBS) to overcome these hazards in the context of climate change and to strengthen the co-benefit of nature-based solutions to increase the well-being of the community.



For more information, please access: [www.charm-eu.eu/torch](http://www.charm-eu.eu/torch)

