


CO-CHANGE PROJECT OVERVIEW

#COCHANGE2020



CO-create **CHANGE** in Research Funding and Performing

 Co-funded by the Horizon 2020 programme
of the European Union

WHY CO-CHANGE?

Many researchers care about the ethical, legal, and social aspects of conducting their research, therefore to produce ethically acceptable, sustainable and socially desirable research and innovation outcomes.

However, the principles of responsible research and innovation (RRI) are much less integrated at the institutional and organisational levels. The Co-Change Project wants to develop and strengthen the capacity for ethical reflection and responsible conduct in the structure and culture of research performing and funding organisations. Our aim is that organisations think about the impacts of science and technology at all levels.

We would like to initiate and implement institutional changes in the areas of the 5 European Commission RRI keys: research ethics, citizen engagement, gender equality, open access and science education.



THE HEART OF THE PROJECT: CO-CHANGE LABS



We established 8 Co-Change Labs which are organisational spaces for building transformative capacity and leadership in the areas of RRI. They were built at research performing (RPO) and research funding organisations (RFO) and at universities.

#01 **AIT**

Austrian Institute of Technology

RRI in machine learning
and artificial intelligence

#03 **TECNALIA**

Fundación TECNALIA Research & Innovation

RRI in technological
research

#05 **PL**

Council of Tampere Region

RRI in regional
development

#07 **DCE**

Delft University of Technology

RRI for students, next
generation entrepreneurs

#02 **VTT**

Technical Research Centre of Finland

RRI in artificial intelligence
driven autonomous systems

#04 **WWTF**

Vienna Science and Technology Fund

RRI in funding
guidelines

#06 **PFNS**

Faculty of Agriculture of the University of Novi Sad

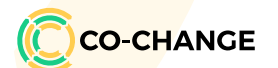
RRI in science education,
gender equality

#08 **NEN**

Royal Netherlands Standardization Institute

RRI in the standardisation
process

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#01

AIT CHANGE LAB

Austria

The Change Lab of the Austrian Institute of Technology (AIT).

It focuses on chances and challenges of the application of machine learning and artificial intelligence.

The different ways of thinking about these technologies are being investigated in the Lab: the approach of IT researchers and that of social scientists.

Lab members are also working on raising awareness on the challenges and changing practices at their own institute and beyond.



#02

TECNALIA CHANGE LAB

Spain

Tecnalia is an applied research centre that aims to develop and strengthen institutional discourses of responsible innovation.

‘SHAPE Lab’ is working on the inclusion of RRI aspects into the organisation’s Technological Departments’ research and development projects and also on the implementation of RRI principles, which will contribute to the development of practices, policies and understanding of the RRI concept.



#03

VTT CHANGE LAB

Finland

‘RAAS Change Lab’ is a research, development and innovation ecosystem that assembles leading actors in autonomous systems in Finland and abroad.

RAAS is attaining change in responsibility and ethics awareness in general and integration of responsibility and ethics in activities related to artificial intelligence and in particular autonomous systems.

RAAS has been able to initiate several new projects related to different domains of autonomous systems.



#04

PFNS CHANGE LAB

Serbia

‘The RRizing Lab’ of the Faculty of Agriculture (PFNS) of the University of Novi Sad is working on the institutional implementation of the five RRI keys: science education, gender equality, public engagement, ethics and open access.

The keys are to be analyzed, promoted, monitored, and supported at the university.

Examples of good RRI practices shall be presented at the university level so as to also draw other faculties into debates.



#05

DCE CHANGE LAB

The Netherlands

The Delft University of Technology has a sub organisation, the Delft Centre for Entrepreneurship (DCE). They play an important role in training the next generation entrepreneurs that can shape the societies of tomorrow.

DCE aims to provide the students not merely with the tools to become successful entrepreneurs, but in addition to become the 'right' entrepreneurs. As part of the Co-Change project, DCE is experimenting with tools that prompt the students to consider the societal role and impact of their innovations.



#06

NEN CHANGE LAB

The Netherlands

The Royal Netherlands Standardization Institute (NEN) has initiated and started collaborations in various research projects to explore how standardisation can be developed and refined in order to integrate RRI.

They work together with Delft University of Technology to explore what factors can obstruct and increase the social responsibility of the standardisation process.



#07

WWTF CHANGE LAB

Austria

The Change Lab of The Vienna Science and Technology Fund (WWTF).

Goals of the Lab are the discussion of, experimentation with and implementation of RRI principles and practices in the funding guidelines and procedures.

The central challenge is to include RRI principles in the "Funding Guidelines" of the organisation which specifies funding instruments, funding criteria and selection procedures.



#08

PL CHANGE LAB

Finland

The Council of Tampere Region (CTR) Change Lab increases regional competencies on how to include elements of responsible innovation into innovation projects and funding.

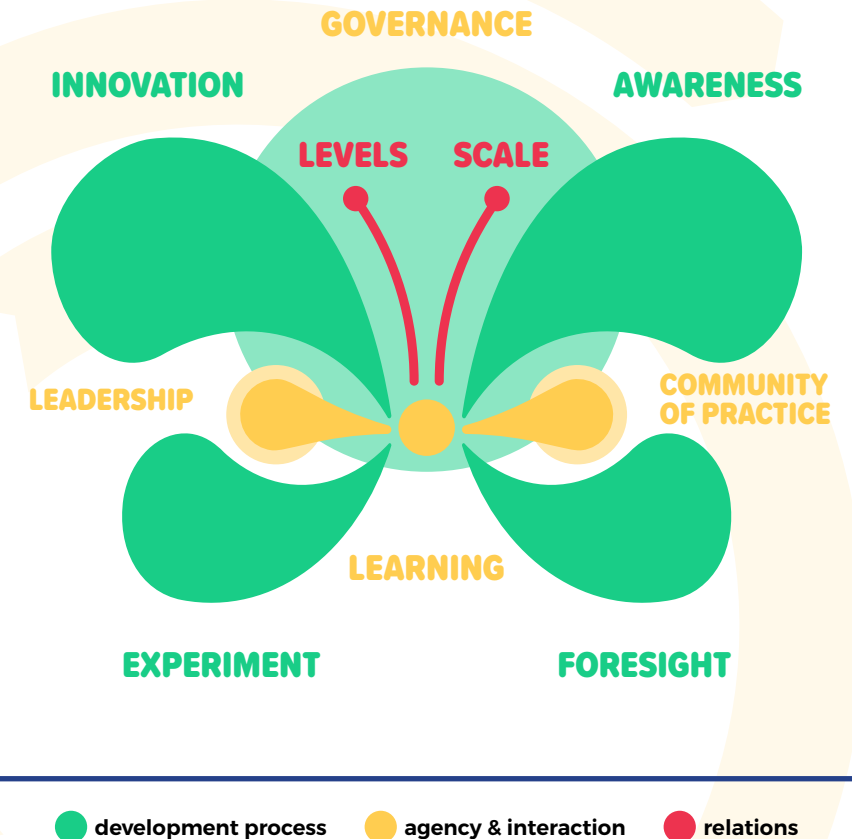
They develop understanding on how elements of RRI can be used in regional development and increase the awareness of responsibility of innovations in different groups and networks of innovation actors.

HOW TO CO-CHANGE?

The Co-Change platform supports the Labs in building capacity for sustainable transformation. The collective ability of all actors in an ecosystem to be aware of, to prepare for, initiate and actually perform change at organizational and system levels is the transformation, that enables responsible future development.

Development work in and across the Labs attends to three main areas:

- » creating a community of practice with leadership and governance (→ agency and interaction)
- » working across levels and scales (→ relations) while observing the main RRI principles of anticipation, reflexivity, inclusion, responsiveness
- » moving along a learning cycle from initial awareness to future outlook, then experiments with promising pilots and eventually embedding these innovations as institutional changes (→ development processes).



FUTURE VISION

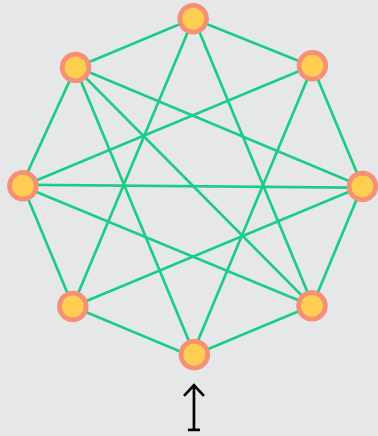
The Co-Change Labs jointly created future visions to which they may contribute with their institutional innovations. These visions are described with four theme groups linked to the topics of the Co-Change Labs: Biogenetics and Agriculture, Autonomous Systems and Vehicles, Digital Humanism, and Artificial Intelligence.

Based on these visions each Co-Change Lab developed their own roadmaps. Starting from current challenges, they defined the milestones for the years 2023 - 2030 - 2035 with concrete objectives.

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The project activates **change coalitions** around each Co-Change Lab, paying particular attention to interactions and dependencies of actors in each research and innovation ecosystem.



CO-CHANGE NETWORK

Change labs
Advisory board
Sounding board
International good practices

GOVERNMENT



UNIVERSITY



ECOSYSTEM ACTORS FROM
THE QUADRUPLE HELIX

CHANGE COALITION

WITHIN RPO/RFO

gender expert
research funding
controlling
business development
others

CHANGE LAB

IN RPO/RFO

Co-lead

domain experts
RRI experts from RPO/RFO partner org.

Change lab team

scientists
engineers
experts
others

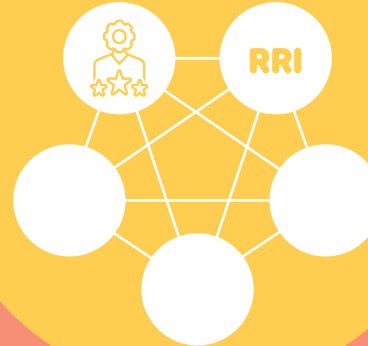
INDUSTRY



CIVIL SOCIETY



CHANGE LAB
IN RPO/RFO



OBJECTIVES



#01

initiate and implement institutional changes in the areas of research ethics, citizen engagement, gender equality, open access and science education



#02

build change coalitions: by implementing Co-Change Labs in their ecosystems, generate transformative capacity for change in terms of practices, procedures, rules and norms at the individual, organisational and system levels



#03

co-create and test RRI-related **practices** for institutional change in research funding and performing organisations within consortium member organisations and associated partner organisations



#04

make the impact of innovation **on society** a part of consortium member organisations' daily routines



#05

align both the project process and its outcomes **with the values, needs and expectations of society**

CONSORTIUM AS A WHOLE



Austria, Estonia, Finland, Hungary, Italy, the Netherlands, Spain, Serbia



8 PARTNERS

4 research performing organisations

Austrian Institute of Technology (*AIT*) - consortium leader
Environmental Social Science Research Group (*ESSRG*)
Fundación TECNALIA Research & Innovation
Technical Research Centre of Finland (*VTT*)

2 universities

The Faculty of Agriculture of the University of Novi Sad (*UNS*)
The Delft University of Technology (*TU Delft*)

2 research funding organisations

The Vienna Science and Technology Fund (*WWTF*)
Council of Tampere Region (*PL*)



ADVISORY BOARD

5 experts from industry, government, universities and research funding organisations - provide advice on engagement and dissemination



SOUNDING BOARD

5 RRI experts - focuses on the cooperation with other RRI projects



5 ASSOCIATED PARTNERS

3 national research funding organisations

Academy of Finland
Estonian Research Council
Austrian Research Promotion Agency (*FFG*)

1 private organisation

The Royal Netherlands Standardisation Organisation (*NEN*)

2 firms

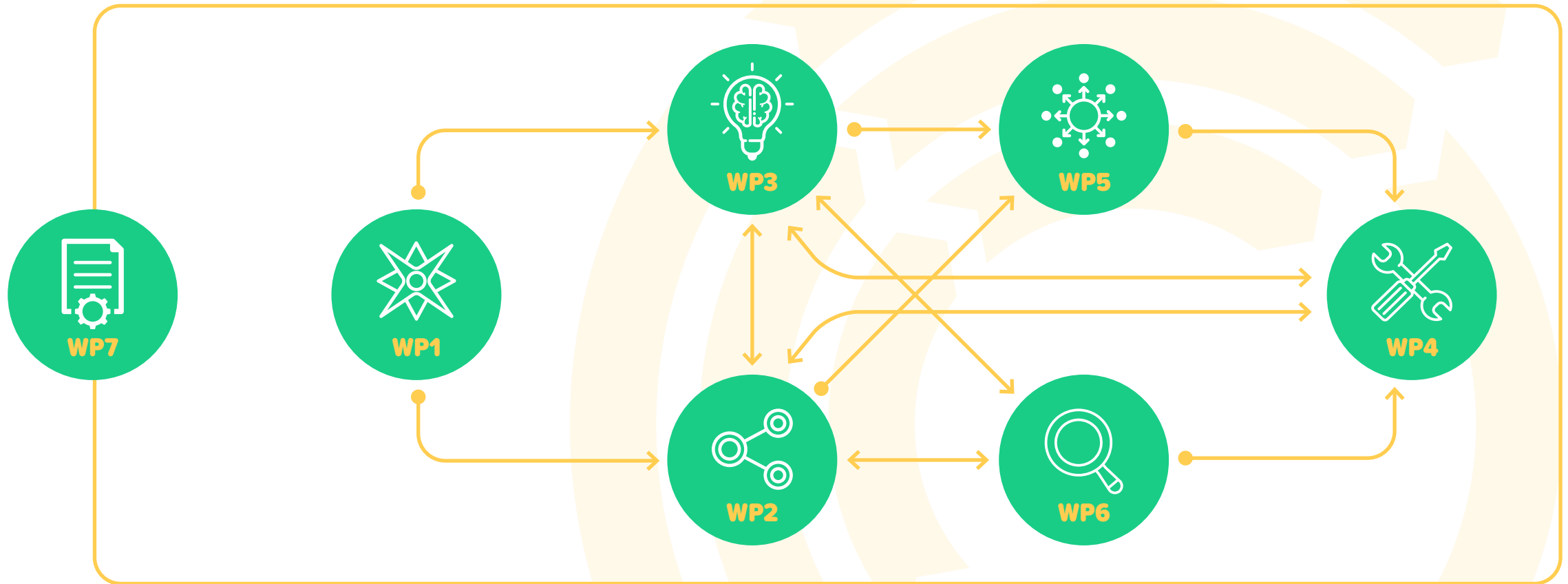
QiArrow
Laboratori Archa

The Co-Change project is coordinated by Dr. Peter Biegelbauer, Austrian Institute of Technology.



STRUCTURE

WP1 Stocktaking **WP2** Co-Change Paltform **WP3** Co-Change Labs **WP4** Toolbox **WP5** Dissemination **WP6** Monitoring **WP7** Project Management



THE PROJECT IN NUMBERS

Timeframe

**1 February 2020 –
31 January 2023**

Budget

€ 1.498.833,75

Partners

8 partners

Coordinated by

**Austrian Institute
of Technology
GmbH**

*H2020 grant
agreement*

No 873112.

Project

communication

ESSRG

(Environmental Social
Science Research Group)

