Deliverable 3.1.
Menu of Co-creation Methods
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<tr>
<th>Project Acronym</th>
<th>ORION</th>
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<tr>
<td>Project Title</td>
<td>Open Responsible research and Innovation to further Outstanding knowledge</td>
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<td>Grant Agreement no.</td>
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<th>Version</th>
<th>Contributors</th>
<th>Comments</th>
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<tr>
<td>1.0</td>
<td>BI</td>
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The ORION project seeks to promote institutional change in life science research performing and research funding organisations by performing co-creation experiments. Co-creation experiences are a way in which to connect multiple stakeholders, bringing them together to discover their interests and values and using these opportunities to discuss, develop and implement projects or ideas to achieve new, inclusive, forward-thinking research strategies. As a result, co-creation experiences allow high-quality interactions and unique experiences, with those involved becoming connected, informed and empowered. In order to facilitate the implementation of Open Science in any discipline of scientific research, we have collated a menu of methods specifically used to co-create. These methods are a subgroup of methods that are available through other European projects such as the RRI-Toolkit and Engage2020. This menu will be disseminated via the ORION network and on the ORION website and showcased at the UK ENGAGE Conference hosted by the National Coordinating Centre for Public Engagement in December 2017.
Deliverable 3.1 – Menu of Co-creation Tools

Introduction

Co-creation has been defined as “purposeful action of associating with strategic customers, partners or employees to ideate, problem solve, improve performance, or create a new product, service or business”[1]. In essence, co-creation experiences are a way in which to connect multiple stakeholders, bringing them together to discover their interests and values and using these opportunities to discuss, develop and implement projects or ideas to achieve new, inclusive, forward-thinking research strategies. As a result, co-creation experiences allow high-quality interactions and unique experiences, with those involved becoming connected, informed and empowered.

Open Science seeks to improve the impact and quality of scientific research, which in turn attracts talent and results in economic growth and job creation. Open Science - together with the Responsible Research and Innovation principles of gender equality, science education, open access, governance, ethics, public engagement and open access – is multidisciplinary, applying to all topics of scientific research and at all stages of the research lifecycle.

The ORION project seeks to promote institutional change in life science research performing and research funding organisations by performing co-creation experiments in three specific areas where stakeholders do not already frequently collaborate; (i) Research strategy and funding, (ii) identifying risks and opportunities presented by disruptive technologies and (iii) citizen science in fundamental research. This deliverable was designed to provide support and ideas to ORION partners and the wider community in facilitating co-creation experiments.

Development of the Co-creation Tools Menu

This menu was developed through desk research and consultation with research funding and participating organisations already participating or hosting co-creation experiments. The menu builds upon the Action Catalogue of Engage2020, an EU project seeking to engage society in Horizon 2020. The Action Catalogue is a dynamic selection tool containing an exhaustive collection of methods to engage different audiences with science and research. Our co-creation menu contains only those methods that enable bidirectional participation. The menu contains 31 methods sorted according to the level of participation required by the different interest groups.

Co-creation Menu
Please see below.

Conclusions and next steps
The Co-creation Menu will be disseminated across the ORION network and publically available on the ORION website. As the ORION project progresses will we ask users of the menu to provide us with feedback of its usefulness.
Menu of Co-creation Tools
What is Co-creation?

Co-creation has been defined as “purposeful action of associating with strategic customers, partners or employees to ideate, problem solve, improve performance, or create a new product, service or business”. In essence, co-creation experiences are a way in which to connect multiple stakeholders, bringing them together to discover their interests and values and using these opportunities to discuss, develop and implement projects or ideas to achieve new, inclusive, forward-thinking research strategies. As a result, co-creation experiences allow high-quality interactions and unique experiences, with those involved becoming connected, informed and empowered.

Co-creation experiences seek to engage multiple stakeholders at all points of the research lifecycle, from conception of a novel research project, through funding selection and resourcing, to dissemination of research findings and use of those findings within society, which in turn informs future funding calls. In this way, the hopes, concerns and aspirations of the end users of research, the public, are integrated from the very beginning of the process right through to the end. This concept maps well with the idea of making science truly open, transparent and responsive to societal needs, a new approach of the European Research Area known as Open Science.
<table>
<thead>
<tr>
<th>Method Name</th>
<th>Objective</th>
<th>Audience Size</th>
<th>Case Study</th>
<th>Cost</th>
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<td>Co-creation menu</td>
<td>This co-creation menu seeks to aid researchers and policy-makers in identifying the actor groups involved in the research process. It is a dynamic selection tool containing an exhaustive collection of methods to engage different audiences with science and research. Our co-creation menu contains only those methods that enable bidirectional participation.</td>
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The ORION project aims to trigger **evidence-based institutional, cultural and behavioural changes** in Research Funding and Performing Organisations (RFPOs), targeting researchers, management staff and high-level leadership.

Our vision is to “embed” **Open Science and Responsible Research and Innovation (RRI) principles:**
- ethics;
- gender;
- governance;
- open access;
- public engagement;
- science education

**in Research Funding and Performing Organisations**, in their policies, practices and processes to organise and do research. The focus is particularly on RFPOs involved in life sciences and biomedicine.

Throughout the project we will seek to identify drivers and barriers, interests and values, as well as produce “prototypes” in the form of new citizen science projects, new research strategies, new funding frameworks and training material.

**CORE ELEMENTS OF THE PROJECT**

**Benchmarking** to analyse existing open science knowledge and practices and better understand the current landscape.

**Co-creation** experiments involving multiple stakeholders around three specific challenges: opening up the research engine; identifying risks and opportunities presented by disruptive technologies; and running citizen science projects in fundamental research.

**Training** by developing and running training for researchers and professional staff at funding agencies on RRI and Open Science concepts, practices and tools.

**KEY STAKEHOLDERS**

ORION will engage many different types of stakeholders in the project including research and funding organisations, citizens, policy makers, and industry.

All materials and resources produced by ORION will be widely disseminated and freely available.

**PROJECT PARTNERS**

**Project co-ordinator:** Centre for Genomic Regulation, Spain

**Partners:**
- ANT Foundation, Italy
- Babraham Institute, UK
- The Central European Institute of Technology, Czech Republic
- CRECIM, Universitat Autònoma de Barcelona, Spain
- Instituto de Salud Carlos III, Spain
- Max Delbrück Center for Molecular Medicine, Germany
- South Moravian Centre for International Mobility, Czech Republic
- VA (Public & Science), Sweden

**WHAT IS RRI?**

Responsible Research and Innovation seeks to align the processes and outcomes of research and innovation with the values, needs, and expectations of the society. This requires multi-actor and public engagement initiatives in research and innovation.