Mutual Learning Exercise: Citizen Science initiatives - Policy and Practice

Kick-off meeting, 18 January 2022

#HorizonEU

HORIZON EUROPE POLICY SUPPORT FACILITY
2021 – 2027
<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
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<tbody>
<tr>
<td>14.00-14.05</td>
<td>Welcome, a short ice breaker exercise (Marzia Mazzonetto)</td>
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<tr>
<td>14.05-14.10</td>
<td>Welcome by the European Commission (Anna Panagopoulou, DG RTD, Director)</td>
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<tr>
<td>14.10-14.15</td>
<td>Introduction of PSF activities (Magda De Carli, DG RTD, Head of Unit)</td>
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<td>14.15-14.25</td>
<td>Welcome from the chair and presentation of the agenda (Alan Irwin)</td>
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<td>14.25-14.35</td>
<td>Personal introduction &amp; Presentation of proposed Modus Operandi for the MLE (Margaret Gold)</td>
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<tr>
<td>14.35-14.45</td>
<td>Q&amp;A on the Modus Operandi for the MLE</td>
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<td>14.45-14.50</td>
<td>Topic 1 - Personal introduction &amp; Introduction and overview of citizen science (Muki Haklay)</td>
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<td>14.50-14.55</td>
<td>Topic 2 - Personal introduction &amp; Ensuring good practices and impacts (Rosa Arias)</td>
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<td>14.55-15.00</td>
<td>Topic 3 - Personal introduction &amp; Maximising the relevance and excellence of citizen science (Marzia Mazzonetto)</td>
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<td>15.00-15.05</td>
<td>Topic 4 - Enabling environments and sustaining citizen science (Margaret Gold)</td>
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<td>15.05-15.10</td>
<td>Topic 5 - Personal introduction &amp; Scaling up citizen science (Antonella Radicchi)</td>
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<td>15.10-15.45</td>
<td>Interactive Exercise (led by Muki Haklay with Rosa Arias and Marzia Mazzonetto)</td>
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<td>- Sorting and organising questions about citizen science on a google doc (10 minutes)</td>
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<td>- Introduction of the Jamboard (5 minutes)</td>
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<td>- Delving into some of the questions focusing on Topics 2 and 3 (Ensuring good practices and impacts, maximising the relevance and excellence of citizen science) on a Jamboard (20 minutes)</td>
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<td>15.45-15.55</td>
<td>Break</td>
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<tr>
<td>15.55-16.15</td>
<td>Member State feedback on main challenges and topics to be addressed in MLE</td>
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<td>16.15-16.55</td>
<td>Discussion on MLE meetings, locations, stakeholders and projects to be selected</td>
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<td>16.55-17.00</td>
<td>Closing and next meeting (Alan Irwin)</td>
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PSF Challenge - Citizen Science

HORIZON EUROPE POLICY SUPPORT FACILITY
2021 – 2027

MAGDA DE CARLI
A1, European Semester and Country Intelligence
DG Research & Innovation
Launched in 2015

With the objective to help MS/AC "to improve the design, implementation and evaluation of R&I policies" that enhance the quality of their research and innovation investments, policies and systems.

Supporting evidence-based policy-making

Drawing on the combination of learnings between practitioners and high-level experts advice and assistance
Horizon Europe PSF

Addresses **challenges and bottlenecks** in R&I systems identified via a **sound evidence-based analysis** of the national R&I systems;

Address how the **potential of R&I for systemic transformations** towards sustainability can be unlocked.

**PSF Country:** At the request of one country, PSF provides a strategic assessment of its R&I system and formulate policy recommendations.

**PSF Challenge:** PSF facilitates the joint exploration of specific R&I policy challenges (citizen science, foresight, etc.).

**PSF Open:** PSF addresses a wider range of policy needs. E.g. implementation of previous PSF, new methodology in preparation.
Focused on specific operational R&I challenges of interest to several volunteering countries, it aims to identifies good practice, lessons learned and success factors.

- **Learning from practices**
- **Peer learning**
- **Panel of high level experts**
- **Steering of DG R&I**

**Involvement of stakeholders**

**Evidence-based Analysis**

**Communication and dissemination**
PSF: WHO DOES WHAT

**Definition of the PSF scope based on MS’ and AC’s demand**

**Selection of chairs**

**Steers the process**

**DG R&I**

**PSF contractor**

New: Consortium of Ecorys, EFIS, PPMI, Idea Consulting

- Manages the process (project manager) and supports the expert panel’s work

**MLE Expert panel**

- Knowledge sharing

- Mutual learning among participants

- Reports

- Dissemination activities
## MLE- A Team Work

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<thead>
<tr>
<th>Country</th>
<th>Institution</th>
<th>Designated participant(s)</th>
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<tbody>
<tr>
<td>Austria</td>
<td>Austrian Research Promotion Agency (FFG)</td>
<td>Andrea HOFFMANN, Michalis TZATZANIS</td>
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<tr>
<td>Belgium</td>
<td>Royal Belgian Institute of Natural Sciences</td>
<td>Carole Paleco</td>
</tr>
<tr>
<td>France</td>
<td>Ministry of Education, Research and Innovation</td>
<td>Nicolas Ngo</td>
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<tr>
<td>Hungary</td>
<td>The National Research, Development and Innovation Office of Hungary</td>
<td>Katalin Urbán</td>
</tr>
<tr>
<td>Italy</td>
<td>Ministry of Research</td>
<td>Alessandro Boero</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Ministry of Education science and sport</td>
<td>Tit Neubauer, Katja Ceglar</td>
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<tr>
<td>Germany</td>
<td>Federal Ministry of Research and Education</td>
<td>Alexander Grablowitz, Philip Ackermann</td>
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<td>Germany</td>
<td>German Aerospace Center</td>
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<tr>
<td>Sweden</td>
<td>Swedish Research Council</td>
<td>Katarina Nordqvist</td>
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<td>Sweden</td>
<td>Swedish Research Council</td>
<td>Anna Maria Fleetwood</td>
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<tr>
<td>Romania</td>
<td>UEFISCDI - Funding agency</td>
<td>Ioana TRIF, Alina IRIMIA</td>
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<tr>
<td>Norway</td>
<td>Ministry of Education and Research</td>
<td>Vibeke Helén Moe</td>
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<td>Norway</td>
<td>Research Council, Department for Innovation in Public Sector</td>
<td>Anila Nauni</td>
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<tr>
<td>Portugal</td>
<td>Ciência Viva- National Agency for Scientific and Technological Culture</td>
<td>Ana Noronha, Carla Lourenço</td>
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## PSF Expert Panel and Support

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tr>
<td>Alan Irwin</td>
<td>Chair</td>
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<tr>
<td>Margaret Gold</td>
<td>Rapporteur</td>
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<tr>
<td>Muki Haklay, Rosa Arias, Marzia Mazzonetto, Antonella Radicchi Ingeborg Meijer</td>
<td>Experts</td>
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<tr>
<td>Annamaria Zonno, Gabriella Leo/Linden Farrel</td>
<td>EC Co-ordinator Open Science Unit</td>
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<td>Gillian Kelly</td>
<td>PSF Contractor Project Manager</td>
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MLE PROCESS

Preparatory stage:

- Definition of the scope and of the **focus areas** based on participants’ demand
- Based on focus areas, hiring of **experts**

5 mutual learning events/country visit (currently online events, as soon as possible meetings and project visits)

4 challenge papers and 5 thematic reports

Final report

Dissemination event
PSF COMMUNICATION AND DISSEMINATION

- Repository of reports
- Updates on meetings and events
- PSF newsletter from June 2022
- Videoclips on content and process
5 Proposed Themes ➔ 5 Info Exchange Meetings

- Topic 1: Introduction and overview on citizen science
- Topic 2: Ensuring good practices and impacts
- Topic 3: Maximising the relevance and excellence of citizen science
- Topic 4: Enabling environments and sustaining citizen science
- Topic 5: Scaling up citizen science
3 Topic Meetings $\rightarrow$ 4 Countries

- **Topic 4 Meetings (Enabling environments and sustaining CS):**
  - 2 country visits:
    Part I: Austria (7 and 8 June 2022);
    Part II: Hungary (12 and 13 September 2022)
  - If due to Covid situation requires to be online:
    6 and 13 September (09.30-12.30 CET)

- **Topic 3 Meeting (Maximising the relevance and excellence of CS):**
  Slovenia (10 and 11 October 2022)
  - If due to Covid situation requires to be online:
    10 and 11 October 2022 (09.30-12.30 CET)

- **Topic 5 Meeting (Scaling up CS):**
  Germany (7 and 8 November 2022)
  - If due to Covid situation requires to be online:
    7 and 8 November 2022 (09.30-12.30 CET)

**Final Meeting:** 13 December in Brussels/Online
**Dissemination event:** early 2023 (exact date TBC)
PROPOSED MODUS OPERANDI FOR MLE

Final Meeting (6th meeting)

- Presentation of the Draft Final Report
- Facilitated discussion

OUTPUTS:

> Final Report
Timeline:  

2nd meeting: online via Microsoft Teams

- 7th and 14th March (09.30-12.30 CET)

- 3rd ~ 6th meetings, TBD envisaged timeline:
  - 3rd meeting: May
  - 4th meeting: September
  - 5th meeting: October/ mid-November
  - Final Meeting: December
TOPIC 1: INTRODUCTION AND OVERVIEW TO CITIZEN SCIENCE

Expert: Muki Haklay
Professor of Geographical Information Science, University College London
Co-Director of the Extreme Citizen Science group at UCL

- Introductory overview of citizen science, the key principles that govern it and practical examples of how Member States have successfully promoted citizen science in their respective contexts
- How citizens interact and engage with science, and where citizen science fits within this picture
- The characteristics and principles of citizen science
- How citizen science is promoted through EU funding mechanisms
**Citizen science put into practice** through a range of different disciplinary and thematic areas. Presentation of practical examples of successful projects across the Member States, including hands-on and participatory activities and open discussions.

**Barriers in the implementation** of citizen science activities, including scientific, engagement, data or policy challenges, and how to **demonstrate the impact** of CS projects. Interactive exercise to co-create how the identified barriers may be overcome.

**Broad exploration of good practices** in terms of engagement, inclusion, volunteer management, and generating educational and behavioural changes, while addressing scientific questions and issues.

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**Expert:** Rosa Arias
CEO & Founder at Science for Change

Coordinator of the H2020 D-NOSES and NEWSERA Projects. Member of the ECSA Board of Directors.
TOPIC 3: MAXIMISING THE RELEVANCE AND EXCELLENCE OF CITIZEN SCIENCE

Expert: Marzia Mazzonetto
CEO of Stickydot srl,
Brussels
Director of the
BE participation asbl,
Brussels

- Get a deep understanding of key factors in citizen science which can ensure excellence and relevance across disciplinary areas.
- Share reflections and experiences on showcasing how citizen science can contribute to and be integrated into the formal SDGs (Sustainable Development Goals) reporting mechanisms.
- Discuss ethics and ethical tensions and issues of involving citizens in co-design and co-creation. I.e. fairly rewarding citizens contributions and addressing societal expectations.
- Mutual learning about data quality, data assurance, FAIR and open data, and the role of repositories and infrastructures.
Building an enab **ling environment** for CS and **sustaining CS practices and initiatives over the longer term:**

- Supportive institutional, policy and governance arrangements
- Multi-stakeholder approaches, including local coalitions of research, public authorities, businesses and civil society organisations
- National strategies for open science and an enabling environment, including funding
- National CS practitioner networks and platforms
Introduction to the topic, main challenges and how to tackle them:

- Unpack the definition(s) and dimensions of scalability
- Draw on best practices, infrastructures, policies, funding programs, developed in Member States for scaling up citizen science
- Identify success factors for developing transnational projects
- Define a common approach and apply it in practice
MLE MEETINGS, LOCATIONS, STAKEHOLDERS AND PROJECTS TO BE SELECTED

Meetings:

- Five Meetings on different topics;
- Final Meeting; and
- Dissemination event

Locations: Online or in Member States

Some suggested projects/initiatives:

**Meeting 2:** Participatory science and agenda setting (e.g., French experience, or CIMULACT), Arts (e.g., Hungarian FortePanProject), social sciences (e.g., CoAct and COESO projects), natural sciences (e.g., MICS), physical sciences (e.g., REINFORCE and Hungarian climate project), user-led innovation (e.g., FRANCIS).

**Meeting 3:** SDGs: WeObserve, CS-SDG; Ethics: SIENNA, ProEthics, TechEthos, Cities-Health, ROSIE); and Data: Cos4Cloud

**Meeting 4:** Supporting governance and institutional governance: INCENTIVE, STEPCHANGE, TIME4CS projects, overarching strategies specific funding schemes and modalities: ACTION project’s cascade funding scheme

**Meeting 5:** Identify citizen science projects (whether local, regional or national) that could serve as the basis for suitable upscaling to European level in 2022/3 (or later), taking into account the experiences so far with “Plastic Pirates - Go Europe
Thank you!

RTD-PSF@ec.europa.eu