



D3.2 Co-designing innovative multi stakeholder engagement for OOSC

Version 1

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REVISION HISTORY

Revision	date	Contributor	Description
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v2	28.10.2021	All partners	Draft reviewed by partners
v3	30.10.2021	Stickydot	Final version

QUALITY ASSURANCE

To ensure the quality and correctness of this deliverable, we arranged an internal review and validation process. The deliverable was drafted by the work package leader (Stickydot). All partners contributed and reviewed the overall draft. Finally, the final version was submitted to the project coordinator for a final review and validation.

STATEMENT OF ORIGINALITY AND DISCLAIMER

This deliverable contains original, unpublished work except where clearly indicated otherwise. It builds upon the experience of the team and related work published on this topic. Acknowledgement of previously published material and others' work has been made through appropriate citation, quotation, or both.

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1. INTRODUCTION

The purpose of this document is to outline a methodology that ENJOI partners can use to implement their Engagement Workshops and Labs during WP4, for the co-creation of standards, principles and indicators (SPIs) for outstanding open science communication. This step-by-step guide was created in close collaboration with ENJOI partners through a series of participatory workshops, following on from the development of the roadmap for the ENJOI collaborative partnerships (D3.1).

ENJOI (ENGagement and JOurnalism Innovation for Outstanding Open Science Communication) will explore and test engagement as a key asset of science-media relationship. It will focus on innovation in science communication distributed via media platforms (mediated content, science without direct communication with the public), with a strong focus on journalism.

Through a combination of methodologies and in collaboration with producers, target users and stakeholders of science communication, ENJOI will co-create and select a set of SPIs condensed to a Manifesto for an Outstanding Open Science Communication.

ENJOI will deploy a series of actions via Engagement Workshops, Labs, field work and participatory research, evaluation and testing phases. It will also build an Observatory as its landmark product to make all results and outputs available to foster capacity building and collaboration of all actors in the field.

ENJOI's ultimate goal is that of improving science communication by making it more consistently reliable, truthful, open and engaging. Contextually, ENJOI will contribute to the active development of critical thinking, digital awareness and media literacy of all actors involved in the process.



2. OVERVIEW

This ENJOI methodology aims to co-design standards, principles and indicators (SPIs) for outstanding open science communication. It was designed by ENJOI partners over a three-month process through a series of participatory workshops. The objective is to ensure that the final set of standards, principles and indicators draws on the knowledge and experience of a wide range of European stakeholders who are engaged in the process from the outset. As such, the methodology draws on a theoretical background rooted in and developed across a range of fields: from the notions of design thinking to social innovation, but which also mirrors the process of co-creation within open science and open innovation. The techniques and activities mentioned draw on outcomes of European co-funded projects focused on co-creation and co-design such as SISCODE, NEWSERA and SUPER MoRRI, Engage 2020, and Co-creation navigator.

A central aspect of co-design and co-creation deals with involving the design beneficiaries throughout the design process. While questions like when and how often the participatory activities should take place and remain open, special emphasis is placed on supporting meaningful participation. Thus, issues like the participants' roles, as well as to what extent they are able to take ownership becomes critical to assess the sustainability of the design solutions (David, Sabiescu & Cantoni, 2013; Muller, 2009; Roschelle & Penuel, 2006). Scholars have defined co-design in different ways (Mattelmäki and Visser, 2011). Although all the approaches advocate for involving the design beneficiaries during the design process, some perspectives draw more heavily from the User Centered Design (UCD) and the Participatory Design (PD) tradition to stress the importance of democratic participation and user empowerment (see Ehn [2017] and Spinuzzi [2005]). In turn, other approaches have addressed the context of sustainable innovation, co-creation is seen as well-established in design, management, and education, with pioneering work in the co-production of public services" (Gudowsky and Sotoudeh, 2017, 3). With regard to the public sector, Voorberg et al. (2015), in their review of academic literature, see co-creation (and co-production) in the context of social innovation.

In co-creation, value is created through shared experiences characterized by high-quality interactions based on dialog, access and transparency (Prahalad & Ramaswamy, 2004). Similar to co-design, there is strong emphasis on ensuring that all the interacting parties engage in horizontal relationships and thus, can build equal relations that allow them to



collaborate and learn together. From this standpoint, co-creation is an overarching concept that refers to openness and a creative mindset. From a design perspective, co-creation has been described as collective creativity (Sanders & Stappers, 2008).

When connecting co-creation to co-design, co-design can be understood as a “specific instance of co-creation” (Sanders & Stappers, 2008, p.6). As noted by Mattelmäki and Visser (2011), such instances may take the format of workshop events in which stakeholders engage in co-design and collaboratively explore, plan and learn about a specific issue. It is worth to note that from other perspectives, co-creation has been also considered as a co-design method, which is focused on the creation of solutions (Van der Lugt et al., 2009).

In ENJOI, co-creation is understood as a method with a creative atmosphere in which stakeholders engage in co-design events where they collaboratively explore, develop shared understanding, as well as generate solutions and design concepts for the jointly identified challenges.

Ideation is a key aspect of the methodology: participants are given the freedom to brainstorm their initial ideas without judgement and where all ideas are received and considered on an equal basis. This is important in ensuring all participants’ contributions are valued and included. It also inspires creativity and experimentation (Frow P, Nenonen S, Payne A, Storbacka K, 2015). The methodology also includes tools for prioritisation and consensus-building as the group works towards a common set of SPIs. Typical tools here include sticky dot voting, ranking and rating.

Important to the methodology is the notion of adaptability. The structure was designed to be rigid enough to ensure sound results that successfully feed into analysis at European level, while building in flexibility to allow partners at national level to take full advantage of their local resources and logistics. The methodology is therefore made up of a series of modules for the local partners to implement as they see fit.

For the co-creation sessions, many of the techniques draw on methods developed in Open Space Technologies (Owen, Harrison, 2008) where a collaborative approach is used to ensure the agenda emerges in a structured way throughout the workshops, for example, by collectively identifying topics for breakout groups. The result is an open-ended set of

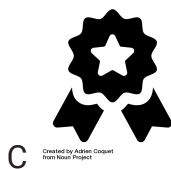
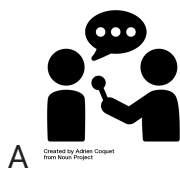


workshops which maximise opportunities to allow all voices to be heard.

In Task 3.1, partners set up Collaborative Partnerships: diverse multi-stakeholder groups that reflect the science communication landscape locally, including science and data journalists, communication and dissemination experts, citizen science practitioners, media editors, cross-sector experts, local activists, teachers and students. These profiles of Collaborative Partnerships will participate in the Engagement Workshops where ENJOI partners will implement this methodology for co-creating SPIs for outstanding Open Science Communication. Labs will be run in collaboration with existing Labs as part of the NEWSERA project.

To give an overview, the ENJOI co-design methodology consists of the following steps:

- A. Gathering public perceptions
- B. Engagement workshop module 1: Co-creating principles
- C. Engagement workshop module 2: Identifying standards
- D. Engagement workshop module 3: Defining indicators and tools
- E. European consensus workshop
- F. Labs



2.1 Gathering public perceptions

This first step ensures that the co-creation process takes as its starting point the views of the **general public** of each partnership before stakeholders come together to build on these views. While citizens are represented to some extent in collaborative partnerships, it should be noted that these are

engaged citizens and not the general public. Ensuring the voice of the general public is represented in the co-creation process is essential as they are a key end-user of open science communication, and science journalism in particular. It helps our engagement



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workshops understand the perceptions of the general public regarding science journalism, science communication and their role, as well as the perceptions of the general public regarding what makes outstanding science communication. For this to be feasible within the framework of ENJOI, the methods of a semi-structured interview or survey are proposed.

Two formats are possible:

- Short interviews (5 minutes maximum per interview).
- Survey.

Partners will select and survey/interview 50 individuals according to the following criteria. All must be:

- i. Resident in partner's country.
- ii. Non-professional in research, journalism or science communication.

The selection of 50 participants should aim to ensure:

- iii. A range of ages (18-29, 30-45, 46-65, 66+).
- iv. A balance of gender identity.
- v. A balance of linguistic communities (where relevant).

No personal data should be collected from participants.

The following questions should be included in the survey/interview translated into local language(s):

1. *Aligning on the topic:* "If I say to you "science communication," what is the first thing you think about?"
2. *Sharing:* "In what situation is it important to communicate about science research?" "Can you give an example where that worked well?"
3. *Reflection:* "What made it work well?"

The following text can be adapted as needed to serve as an introduction to the survey/interview:

"Would you have time for a quick 5 minute chat for research purposes? I work for Stickydot, we are an SME based in Brussels and working on science communication. We



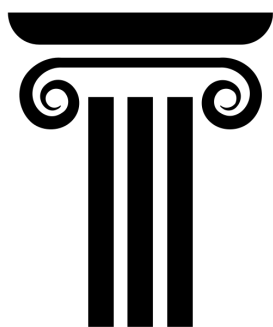
work on a research project called ENJOI where we are trying to improve the practice of science journalism. We will be working with science journalists in Belgium in order to create a set of standards for excellent science journalism. We hope that at the end every science journalist in Europe will follow these standards to make journalism more transparent and engaging. The opinion of citizens or consumers of news is really important for us. If you could spend 5 minutes with me to answer some questions, I would be most grateful"

The survey/interview results will be collected by local partners and analysed using a simple analysis grid to produce word clouds in both English and local languages. The analysis will draw out key elements mentioned by participants in their answers to the "reflection" question in particular.

Local partners will receive the following resources to be supplied by WP4:

- Analysis grid in English.

2.2 Engagement workshop module 1: Co-creating principles



Created by Vectors Market
from Noun Project

The first workshop module of the co-creation process brings together the collaborative partnership established in Task 3.1 to align around the concepts of science journalism and science communication and how they are perceived by the public. It aims to use these perceptions as a starting point to identify the key principles of outstanding open science communication.

The workshop module can be held online or in-person. If in-person it can be adapted to be held in sequence before other workshop modules, or separately using the guidelines below.

Two formats are possible:

- Workshop on an online platform such as Zoom (2 hours).
- Face-to-face (approx 2 hours, adaptable).

Local partners will receive the following resources to be supplied by WP4 and WP2:



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- Slide template, digital whiteboard template and guidelines on drawing a paper template.
- Reporting guidelines and template.
- Simplified list of SPIs (summary of D2.1).

Suggested workshop agenda and steps:

- G. Pre-read:** Simplified summary of D2.1 and public opinion word cloud circulated.
- H. Welcome:** Welcome participants, explain the objectives (detailing the focus on science journalism while still remaining open to broader science communication, and refreshing participants on the notion of SPIs), detail the agenda and give any practical, logistical or technical guidelines (5 minutes).
- I. Warm-up activity** to align on the notion of open science communication and help participants get to know each other. Participants break into groups of three and have one minute each to present themselves and say what makes great science communication for them (10 minutes).
- J. Presentation** of public opinion results using (digital) poster supplied (10 minutes).
- K. Structured discussion:** “What surprises you in these outcomes?” Give participants two minutes to write sticky notes, one sticky note per feedback comment. Give them time to read each other’s comments. Then hand out sticky dots to prioritise the comments (three per participant) and ask them to prioritise the comments they agree with. Use the highest-prioritised comments as the starting point for discussion - ask participants to elaborate on their comment and encourage an open discussion (20 minutes).
- L. Prioritising principles:** participants take the elements that the public identified in response to the question “what made your example of science communication work well” and prioritise them using sticky dots of two colours: one colour to designate “important to science” and a second colour to designate “important to society.” Participants have six dots each (three of each colour) and can distribute them as they prefer. Open up a short discussion around the outcomes (10 minutes).
- M. Break** (5-15 minutes).



- N. Brainstorm and discussion:** Looking at the outcomes of the citizen consultation and thinking of their own experience, what do participants feel should be the **desired principles of outstanding open science communication**? Explain what we mean by a principle. Give them three minutes to brainstorm on sticky notes, one principle per sticky note. Go round the group and give each participant two minutes to present their ideas. Bring the sticky notes together and cluster them where there is common ground. Encourage the group to discuss the groupings and give titles to the clusters (45 minutes).
- O. Prioritisation of principles:** participants vote with 3 sticky dots each to indicate what principles we must prioritise in outstanding open science communication. They should vote on the cluster titles (5 minutes).
- P. Final discussion and wrap-up:** Open up the conversation around any final points that have come up and explain the next steps before thanking participants and closing (10 minutes).

Potential adaptations of this module:

- If you are running the workshop in one day and are skipping the Collaborative partnerships kick-off meeting (as described in D3.1 Developing a roadmap) inspiration for more ice-breakers can be found there.
- Sticky notes and sticky dot voting can take place in person or online using a digital whiteboard such as Padlet.
- To save time, the comments on the citizen consultation outcomes, as well as the prioritisation of the outcomes, could be done online before the workshop.
- The outcomes can be posted online to allow further discussion, setting a deadline for the closure of the discussion and implementing a final prioritisation to achieve consensus.

Expected outcomes of this module:

- A first consensus around a set of principles of outstanding open science journalism and communication, with priority designated by the group.

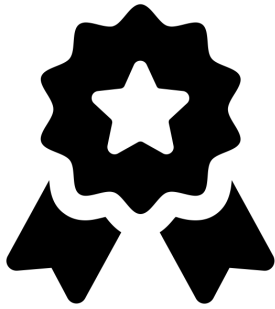
2.3 Engagement workshop module 2: Identifying standards



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The second workshop module of the co-creation process brings together the same collaborative partnership to envision ideal outcomes of open science communication scenarios. It aims to build on these scenarios to collectively identify standards that should be achieved within each principle established in the previous module.



Created by Adrien Coquet
from Noun Project

The workshop module can be held online or in-person. If in-person it can be adapted to be held in sequence before other workshop modules, or separately using the guidelines below.

Two formats are possible:

- Workshop on an online platform such as Zoom (2 hours).
- Face-to-face (approx 2 hours, adaptable).

Local partners will receive the following resources to be supplied by WP leaders:

- Full script, slide templates, digital whiteboard template and guidelines on drawing a paper template.
- Reporting guidelines and template.
- Scenarios inspired by the samples collected in WP2 and the WP7 Digital Engagement Focus Report. These scenarios are fictitious situations, inspired by real examples, where science journalism or science communication is being produced by professionals and where the ENJOI SPIs could be applied. The selection of scenarios will be made by WP4 and should cover a representative range of formats of science journalism and science communication: digital, print, audiovisual, in-person etc. Examples could include:
 - You are writing a news article on nanotechnology and nanoscience.
 - You are developing a citizen science workshop on noise pollution.
 - You are filming a YouTube video on COVID-19 treatment.

Suggested workshop agenda and steps:

Q. Pre-read: outcomes of workshop 1; scenarios

R. Welcome: Welcome participants, explain the objectives of the module,



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- detail the agenda and give any practical, logistical or technical guidelines. (5 minutes).
- S. Warm-up activity** to align on the notion of standards in science communication and help participants get to know each other. Participants take a pen and paper each and have ten seconds to draw an image that represents a word given to them by the facilitator. Then they hold up their drawing so everyone can see. The first word should be “success.” Then “communication”. Then “open.” Then “standard”. (10 minutes).
 - T. Presentation of scenarios:** Participants are presented with the fixed set of fictitious science communication scenarios. (10 minutes)
 - U. Envisioning ideal outcomes:** Participants work in three to four groups of 4-6 people each. Each group takes one scenario and envisions ideal outcomes of each scenario. What would be the impact of this activity if this science communication format was perfectly successful: in terms of the impact on the individual, on research, on society, for example? Two minutes to brainstorm on sticky notes, five minutes to post their responses onto a poster, read each other’s responses, and cluster where appropriate. Participants vote to identify common elements of their ideal outcomes. (15 minutes)
 - V. Break** (5-15 minutes)
 - W. Brainstorming standards:** Back in the groups, for each of the principles identified in Workshop 1, participants make a new poster and brainstorm the standards that would need to be met in this scenario to achieve their collective ideal outcome. Five minutes to brainstorm standards individually, ten minutes to read out and explain the standards to the group, and twenty minutes discussion. These standards are voted and prioritised within the groups. (40 minutes)
 - X. Clustering standards:** In plenary, each group presents their standards. There is a chance for discussion to clarify standards. (20 minutes)
 - Y. Final discussion:** Discussion focuses on what standards are missing under each principle. The facilitator can refer to outcomes of ENJOI D2.1 to see if participants would like to bring elements in. (15 minutes)

Potential adaptations of this module:



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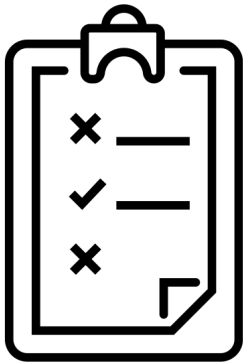
- Sticky notes and sticky dot voting can take place in person or online using a digital whiteboard such as Padlet.
- To save time, the ideal outcomes activity could be done online before the workshop.
- If combined with Workshop module 1, the warm-up may be replaced by an energiser activity.
- The outcomes can be posted online to allow further discussion, setting a deadline for the closure of the discussion and implementing a final prioritisation to achieve consensus.

Expected outcomes of this module:

- A first consensus around a set of standards for each of the previously identified principles of outstanding open science journalism and communication, with priority designated by the group.



2.4 Engagement workshop module 3: Defining indicators & tools



Created by Umer Younas
from Noun Project

The third workshop module of the co-creation process brings together the same collaborative partnership to finalise the set of standards for outstanding open science communication co-created in previous workshops, collectively identifying indicators for each standard. It also contains an ideation session to define tools that could support a range of stakeholders in applying these SPIs.

The workshop module can be held online or in-person. If in-person it can be adapted to be held in sequence before other workshop modules, or separately using the guidelines below.

Two formats are possible:

- Workshop on an online platform such as Zoom (2 hours).
- Face-to-face (approx 2 hours, adaptable).

Local partners will receive the following resources to be supplied by WP leaders:

- Full script, slide templates, digital whiteboard template and guidelines on drawing a paper template.
- Reporting guidelines and template.

Suggested workshop agenda and steps:

- Pre-read:** outcomes of workshop 2; principles and standards.
- Welcome:** Welcome participants, explain the objectives of the module, detail the agenda and give any practical, logistical or technical guidelines (5 minutes).
- Warm-up activity** to align on the notion of indicators in science communication. Participants play a word association game in the chat: the facilitator types a word and the participants type the first word that comes to mind. Ideas for prompts: Journalist. Ethics. Fairness. Evaluation. Measurement. Indicator. (10 minutes).



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- Z. Brainstorming indicators:** Breakout groups are formed and each group is assigned a set of standards from the previous workshop, dividing the standards among the groups. In the breakout groups, five minutes to brainstorm what indicators could be used to measure each of the standards. These indicators could apply broadly or could apply to specific formats. Ten minutes to read out each person's indicators and explain to the group, and twenty minutes discussion. These indicators are voted and prioritised within the groups. (40 minutes total).
- AA. Break** (5-15 minutes)
- BB. Presentation of tool ideation session:** participants are introduced to the notion of tools to be developed in WP6. The constraints around these tools should be clearly presented not to raise the expectations of participants and to clarify that we are going to use this ideation session as an inspiration that will guide the prototypes to be developed. In the next hour, the group will identify concepts for tools to be developed by ENJOI. (5 minutes).
- CC. Whole group brainstorm:** Participants brainstorm to answer the question "what tool would help me implement these principles, standards and indicators?". One idea per sticky note, two minutes to brainstorm. Participants post their own two favourite ideas on the wall and have five minutes to read other ideas. Then, participants receive three sticky dots and are asked to vote to prioritise tools that they think would be useful for multiple stakeholders. The two highest-voted concepts will be announced. (10 minutes)
- DD. Ideation on two concepts:** The group splits in two and each group works to develop one of the two highest-voted concepts. The group should collectively make a poster to define: Who should this tool be aimed at? What are its objectives? What content and format should it include? Who can support its development? (30 minutes)
- EE. Poster time:** Allow the groups to read each other's posters. They can add sticky notes with comments and feedback. (5 minutes)
- FF. Final discussion and wrap-up:** Open up the conversation around any final points that have come up and explain the next steps before thanking participants and closing. (10 minutes)



Potential adaptations of this module:

- Sticky notes and sticky dot voting can take place in person or online using a digital whiteboard such as Padlet.
- If combined with Workshop module 2, the 15 minutes refining standards can be skipped and the warm-up can be replaced by an energiser activity.
- The outcomes can be posted online to allow further discussion, setting a deadline for the closure of the discussion and implementing a final prioritisation to achieve consensus.

Expected outcomes of this module:

- A set of indicators for each of the previously identified standards of outstanding open science journalism and communication.
- A set of concepts for tools, co-defined by the group, that can be used to support the implementation of the ENJOI SPIs. WP6 will receive all outcomes including pictures of posters, sticky notes used, any notes taken during the session.

2.5 European consensus workshop



Created by Roussy Lucas
from Noun Project

The European Consensus Workshop led by Stickydot brings together the ENJOI consortium along with any invited external guests to collate the outcomes of the national Engagement Workshops at European level, building consensus around a European set of ENJOI SPIs for outstanding open science journalism and science communication.

It can take place face-to-face or as a 2-hour online workshop.

GG. Pre-read: National outcomes translated into English (provided by partners) and a first proposal of commonalities across all four countries' sets of principles, standards and indicators developed by WP4 and WP2.

HH. Welcome: Welcome participants, explain the objectives of the workshop, detail the agenda and give any practical, logistical or technical guidelines (5 minutes).

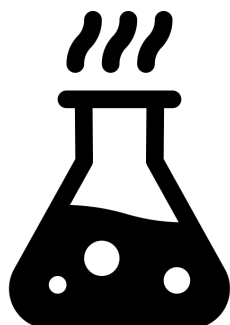


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- II. Warm-up activity** to share highlights from the national EWs (10 minutes).
- JJ. Presentation** of the European common national principles, standards and indicators. This presentation should highlight the common set of SPIs while also noting any key differences from country to country. (15 minutes)
- KK. First responses:** Participants are asked to comment on what strikes them about the outcomes: are any of the results surprising? Do they feel anything is missing or underrepresented? Participants collectively submit their first reactions to the proposal using sticky notes (3 minutes), read each others' reactions and vote on each others' responses with sticky dots to prioritise discussion points (2 minutes).
- LL. Discussion:** The facilitator raises the highest-prioritised comments for discussion, starting with the highest-prioritised. Participants address the discussion points raised. (25 minutes)
- MM. "Unconference" topic selection:** Based on the highest-prioritised comments, the facilitator proposes around 3 topics for main areas to be worked on and seeks consensus in the group (5 minutes).
- NN. Break** (5 minutes)
- OO. Breakout groups:** Participants split into breakout groups, one for each of the main areas to be worked on, to make recommendations for changes to the consensus. (25 minutes)
- PP. Presentation of outcomes:** Participants from each group share the main recommendations from their discussion. (15 minutes)
- QQ. Prioritisation of recommendations:** a prioritisation exercise aims to achieve consensus around the main recommendations. (5 minutes)
- RR. Overall discussion** and finalisation. (10 minutes)

2.6 Labs



Created by Chintuza
from Noun Project

The ENJOI Labs are an opportunity to bring the ENJOI SPIs of outstanding open science communication to a new audience, to test out and refine them, with a focus on ensuring their practical applicability. It also contains an ideation session to define tools that could support a range of stakeholders in applying these SPIs.



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These two formats are possible:

- Workshop on an online platform such as Zoom (2 hours)
- Face-to-face (approx 2 hours, adaptable)

Local partners will receive the following resources to be supplied by WP leaders:

- Full script, slide templates and guidelines in English, based on the script below.
- ENJOI European SPIs translated into local language(s).
- Reporting guidelines and template.

Suggested workshop agenda and steps:

SS. Pre-read: ENJOI European SPIs translated into local language(s)

TT.Welcome: Welcome participants, explain the objectives of the module, detail the agenda and give any practical, logistical or technical guidelines (5 minutes).

UU. Warm-up activity to align on the notion of outstanding open science journalism and science communication (10 minutes).

VV.Presentation of ENJOI European SPIs (10 minutes)

WW. Test exercise: Participants work in small groups to collectively plan a real science communication activity based on their current work. They are tasked with making a poster to identify how they would apply the SPIs to their work. What would they find useful? (20 minutes)

XX. Brainstorming recommendations: Within the small groups, a collective brainstorm of recommendations for how the SPIs could be improved (5 minutes to brainstorm ideas) followed by a prioritisation exercise (5 minutes to read each other's ideas and vote with sticky dots) to highlight the main recommendations. (15 minutes)

YY.Break (5 minutes)

ZZ.Presentation of tool ideation session: participants are introduced to the notion of tools to be developed in WP6. The constraints around these tools should be clearly presented not to raise the expectations of participants and make sure it's clear that we are going to use this ideation session as an inspiration that will guide the prototypes to be developed. In the next hour, the group will identify concepts for tools to be developed by ENJOI. (5 minutes)

AAA. Whole group brainstorm: Participants brainstorm to answer the question "what tool would help me (focusing on one specific target group, i.e., academia,



industry, policymakers, or society as a whole) to implement these principles, standards and indicators?” One idea per sticky note, two minutes to brainstorm. Participants each post their two favourite ideas on the wall and have five minutes to read each other's ideas. Participants then receive three sticky dots and are asked to vote to prioritise tools that they think would be useful for multiple stakeholders. The two highest-voted concepts are announced. (10 minutes)

BBB. Breakouts on two concepts: The group splits in two and each group works to develop one of the two highest-voted concepts. The group should collectively make a poster to define: Who should this tool be aimed at (i.e., academia, industry, policymakers, or society as a whole)? What are its objectives? What content and format should it include? Who can support its development? (30 minutes)

CCC. Poster time: Allow the groups to read each other's posters on recommendations and tools. They can add sticky notes with comments and feedback (5 minutes)

DDD. Final discussion and wrap-up: Open up the conversation around any final points that have come up and explain the next steps before thanking participants and closing. (10 minutes)

Potential adaptations of this module:

- Sticky notes and sticky dot voting can take place in person or online using a digital whiteboard such as Padlet.
- The outcomes can be posted online to allow further discussion, setting a deadline for the closure of the discussion and implementing a final prioritisation to achieve consensus.

Expected outcomes of this module:

- A set of recommendations for changes to the previously identified SPIs of outstanding open science journalism and communication, prioritised by the groups.
- A set of concepts for tools, co-defined by the Lab group, that can be used to support the implementation of the ENJOI principles, standards and indicators.



Annex 1: Sample programme for In-person Engagement Workshop happening in a single day

Module 1 Co-creating principles

09:00 - 09:30 Welcome coffee

09:30 - 09:40 Welcome participants, explain the objectives and agenda for the day

09:40 - 09:50 Warm-up (use one or more warm-ups from D3.1 Developing a roadmap - My photo-story/Network of skills)

09:50 - 10:00 Presentation of public opinion results

10:00 - 10:20 Structured discussion: "What surprises you in these outcomes?"

10:20 - 10:30 Prioritising principles: "what made your example of science communication work well"

10:30 - 11:15 Brainstorm and discussion: what do participants feel should be the desired principles of outstanding open science communication?

11:15 - 11:30 Coffee break

11:30 - 11:45 Prioritisation of principles and final discussion on principles (hang them on a large poster on the wall)

Module 2: Identifying standards

11:45 - 11:55 Presentation of scenarios

11:55 - 12:10 Envisioning ideal outcomes: group work on "What would be the impact of this activity if this science communication format was perfectly successful?"

12:10 - 12:20 Energiser

12:20 - 13:20 Brainstorming standards and clustering standards

13:20 - 14:20 Lunch

14:20 - 14:35 Final discussion on standards (hang the poster next to principles)

Module 3: Defining indicators and tools

14:35 - 14:45 Energiser

14:45 - 15:25 Brainstorm on indicators based on standards from previous module (during lunch prepare sheets with standards to give to each group)

15:25 - 15:50 Extended coffee break (during coffee participants get the chance to look at each other's work on indicators and add post-its with any questions/comments)

15:50 - 16:00 Energiser

16:00 - 16:20 Presentation of tools ideation session and brainstorm



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16:20 - 17:00 Ideation on two concepts in breakout groups
17:00 - 17:15 Poster time: the two groups present their tools
17:15 - 17:30 Quick break and energiser
17:30 - 18:00 Overview of SPIs, final discussion and wrap-up

Note that the opening or closing modules of the workshop could be run online to shorten the length of the full-day workshop where necessary.

Annex 2: List of energisers

Connect the dots

A creative and playful warm-up exercise that requires no talent in drawing or art. This exercise can be done both in a physical workshop context, and in a video-conference as long as the participants have access to pens and paper

Stop and go (scroll down for this one)

A fun warm up for the whole group that requires concentration.

Count up

In this short exercise, a group must count up to a certain number, taking turns in a random order, with no two people speaking at the same time. The task is simple, however, it takes focus, calm and awareness to succeed. This exercise is effective to generate calm and focused collective energy in a group.

Forming line-up without speaking

Line Up is an icebreaker/energiser game where everyone has to communicate without speaking and line up in a straight line according to a pre-determined characteristic.

