



# LESSONS LEARNED FROM A YEAR OF EUROPEAN OPEN SCIENCE TRAINING

Emma Harris and Zoe Ingram



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 741527 and runs from May 2017 to April 2021.



# Who we are

## **ORION Open Science Project**

- 6 Partner Countries
- Co-creation, public dialogues, training
- More science in society and more society in science

## **WP4 in the Max-Delbrück-Center for Molecular Medicine in the Helmholtz Association (MDC)**

- Training
- Emma, Luiza, Zoe



# Agenda

- Presentation
- Test Training
- Interactive Activities and Discussion







## Gap Analysis



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# Gap Analysis

A program analysis of the EU-LIFE alliance professional development trainings (2018)



# Open Science Skills in EU-LIFE Institutes

Which professional development courses are being offered to equip researchers with **tools in Open Science** and with which focus?

- Dimensions of Open Science looked at
- OA, OD, PE, Outreach, CS, Collaboration Tools



## OS Courses & Non OS Courses in Relation to each other (N=207)





| TITLE  | INSTITUTE | OS | OA | OD | OUT-REACH | LAB NB |
|--|-----------|----|----|----|-----------|--------|
| ORION Introductory course – Benefits of OS for you   | MDC       | 1  |    |    |           |        |
| ORION National Stakeholder Workshop  | CEITEC    | 1  |    |    |           |        |
| ORION B-Debate – co-creation experience to develop a roadmap and recommendations                 | CRG       | 1  |    |    |           |        |
| OS Train the Trainer Bootcamp  | CRG       | 1  |    |    |           |        |
| Event 'Wiki Role of Wikimedia in Open Science'   | CRG       | 1  |    |    |           |        |
| Introduction course for PhD's  | CRG       | 1  |    |    |           |        |
| Barcelona Science Slam (workshop+event)  | CRG       |    |    |    | 1         |        |
| Science Communication and Public Engagement  | VIB       |    |    |    | 1         |        |
| Science Communication Course'  | IGC       |    |    |    | 1         |        |
| A half day training for researchers who share ideas on communicating with the public using media | BI        |    |    |    | 1         |        |
| Communicating Science in a Digital Age   | BRIC      |    |    |    | 1         |        |
| Make your research viral: social networks and science  | CRG       |    |    |    | 1         |        |
| Social Media for Scientists Course   | IGC       |    |    |    | 1         |        |
| Explaining your research to ANYONE - inside or outside science                                   | CRG       |    |    |    | 1         |        |
| Research Data Management Course  | IGC       |    |    | 1  |           |        |
| Scientific Writing and Publishing  | VIB       |    | 1  |    |           |        |
| Open Access (using repositorys and ORCID)  | CEITEC    |    | 1  |    |           |        |
| Science in Action: Politics and practice of publication  | CRG       |    | 1  |    |           |        |
| Electronic Lab Notebook Introduction   | VIB       |    |    |    |           | 1      |
| Electronic Lab Notebook  | CRG       |    |    |    |           | 1      |







## Face-to-face trainings



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# Where?

## ORION Training Workshops

Workshops Delivered



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# Audience:

- PhD Researchers
- PostDocs
- Research Managers
- Funders
- Policymakers
- Project Officers



# On the Open Science Menu:

## Researchers

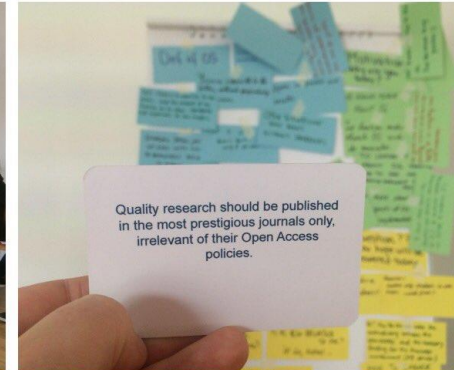
- Open Science and You
- Card Cafe and Interview Activity
- Presentation: the what, why, how of Open Science
- Meet the expert:
- Open Science Case Studies
- Open Science and Your Career: Brain Walking Exercise
- Open Science: An individual plan
- Discussion and Feedback

## Funders & Research Managers

- Card Activity
- Presentation
- Brain walking
- KEA (Knowledge Exchange Activity) - Daily Tasks & OS
- KEA - Gap Analysis and SWOT Analysis
- Role Play: Advocate OS
- Questions Check
- Individual Plan
- Feedback, Evaluation

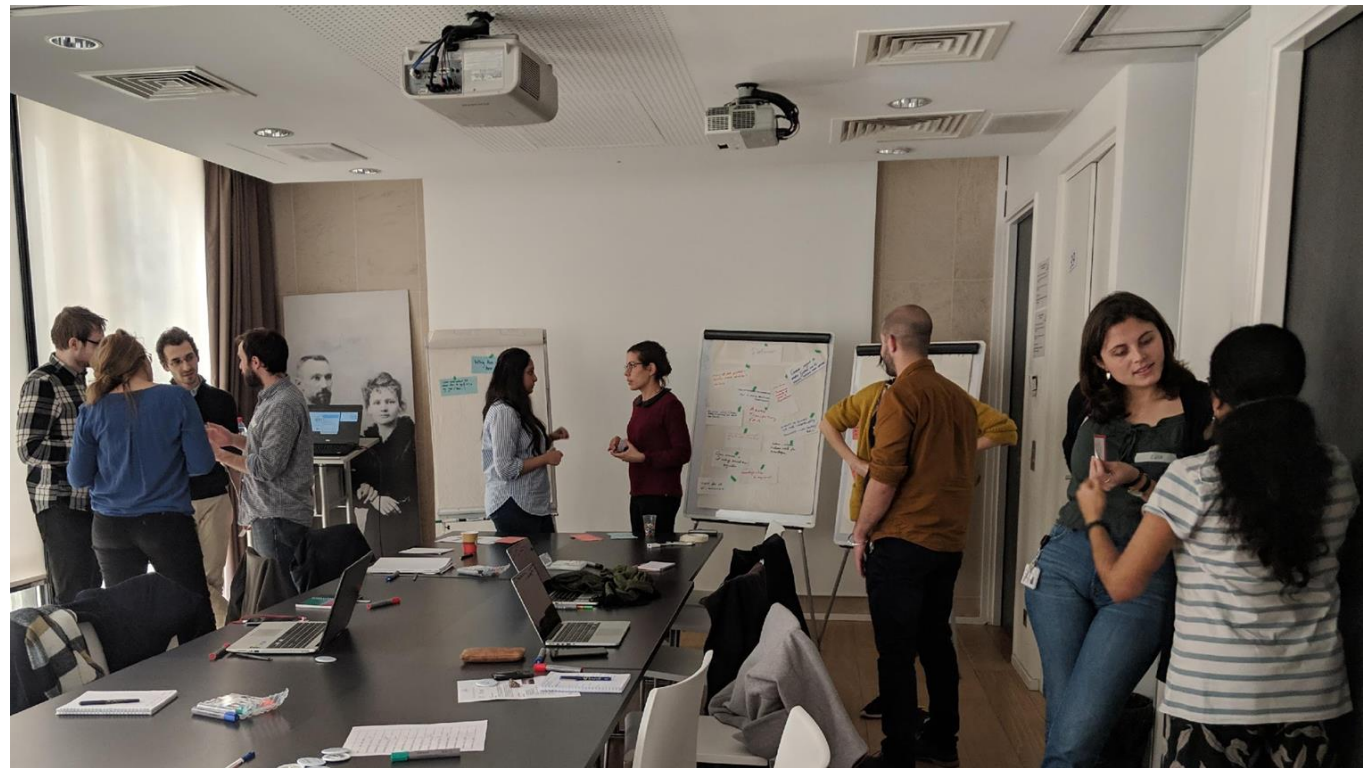


# An ORION Workshop



Photos: Eva Hnatkova, JCMM, Brno

# Card Activity



**Photo:** Emma Harris, Curie Institut, Paris



# Presentation

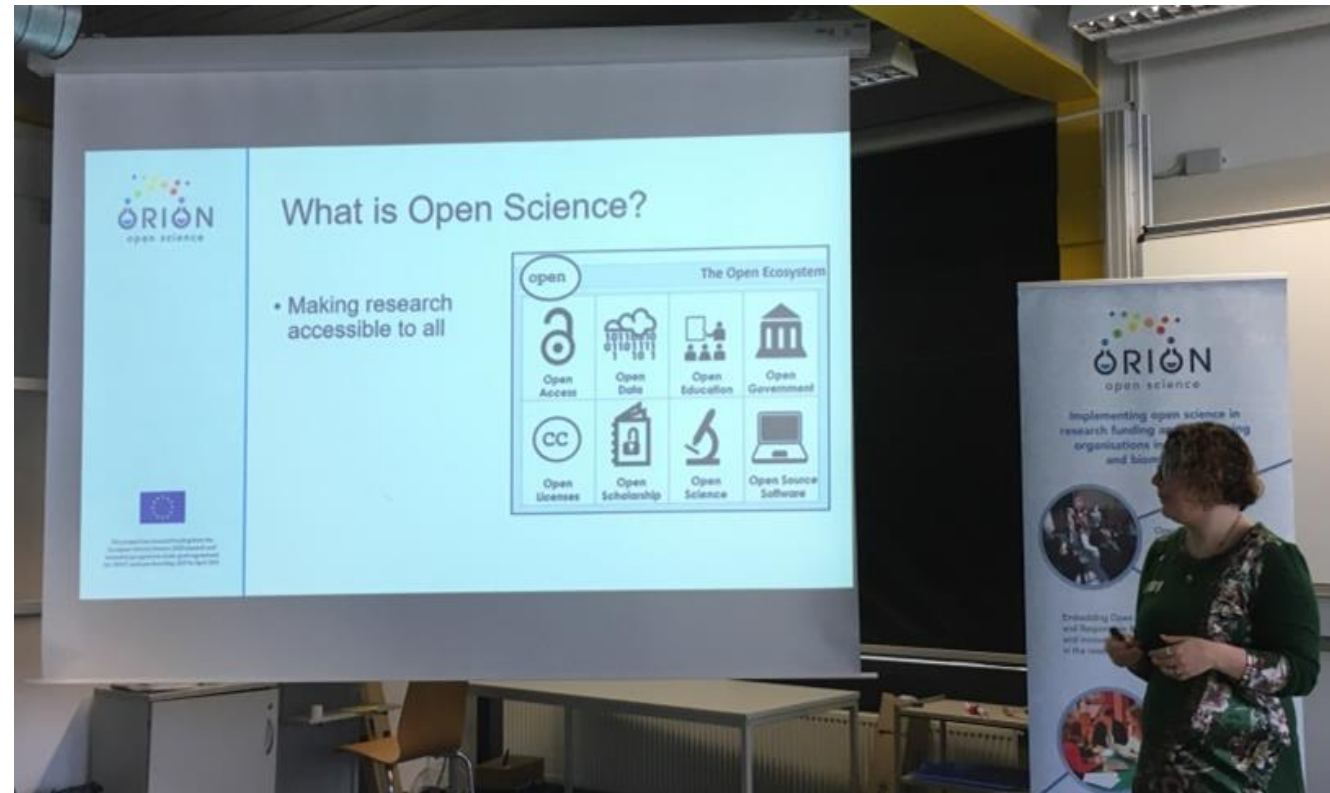


Photo: Zoe Ingram, TU Braunschweig, Braunschweig.



# Meet the Expert



**Photo:** Emma Harris, MDC, Berlin



**Photo:** Zoe Ingram, Institut Curie, Paris





# Brain Walking



**Photo:** Johannes Meismann, TU Braunschweig, Braunschweig



# Role Play Exercise



# For Research Managers & Funders: Project Management and Knowledge Exchange



Photo: Emma Harris, UPF,  
Barcelona

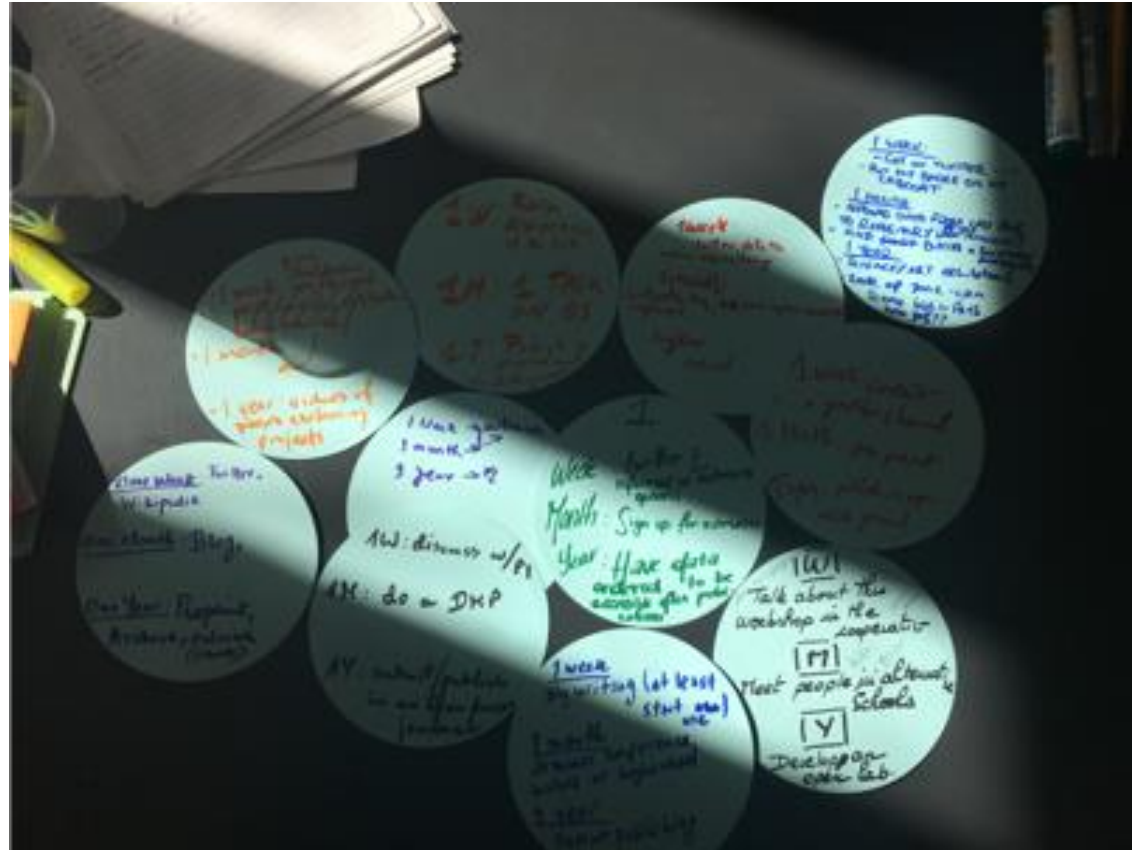


Photo: Michael Dolezal, JCOMM, Brno





# Individual Action Plans

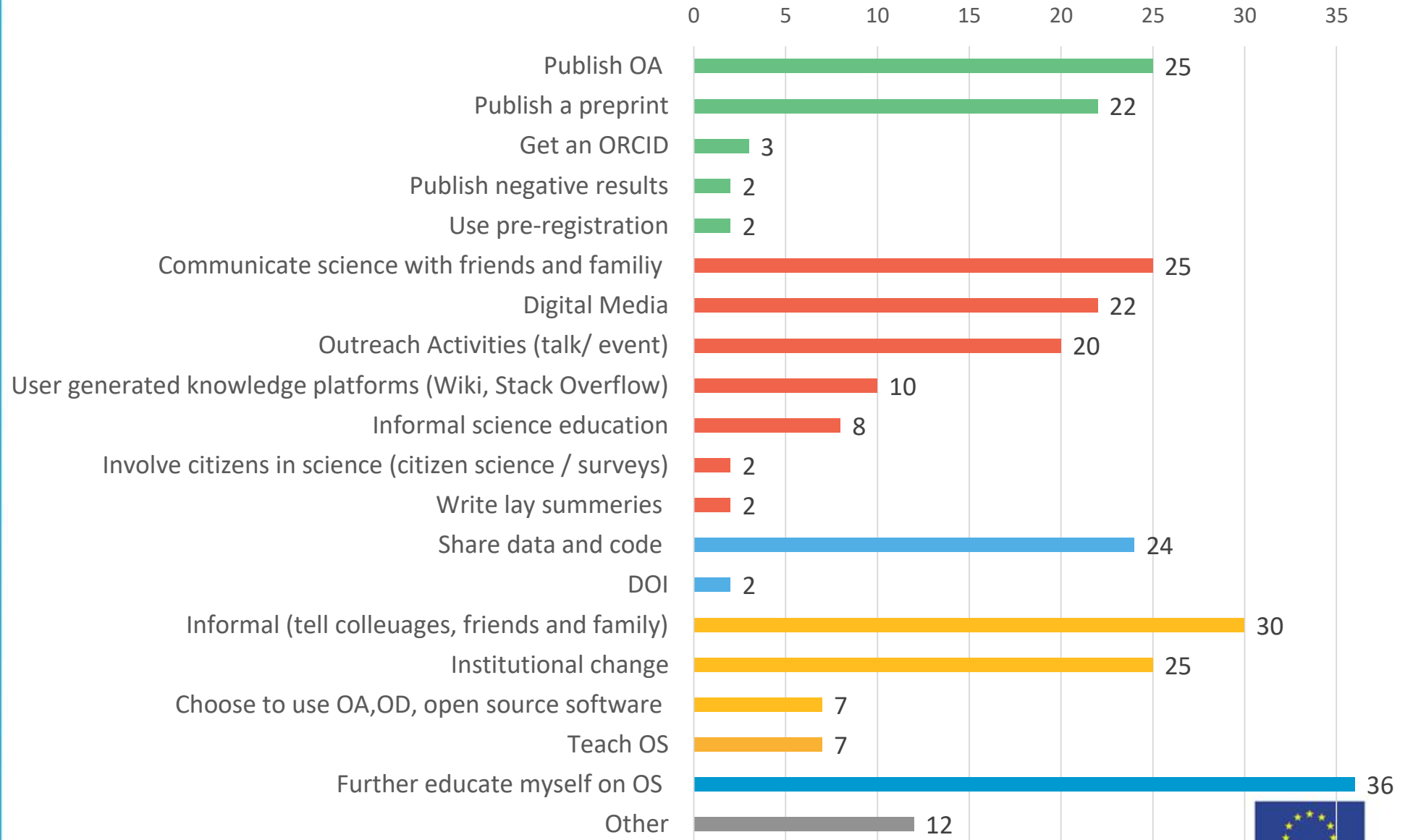




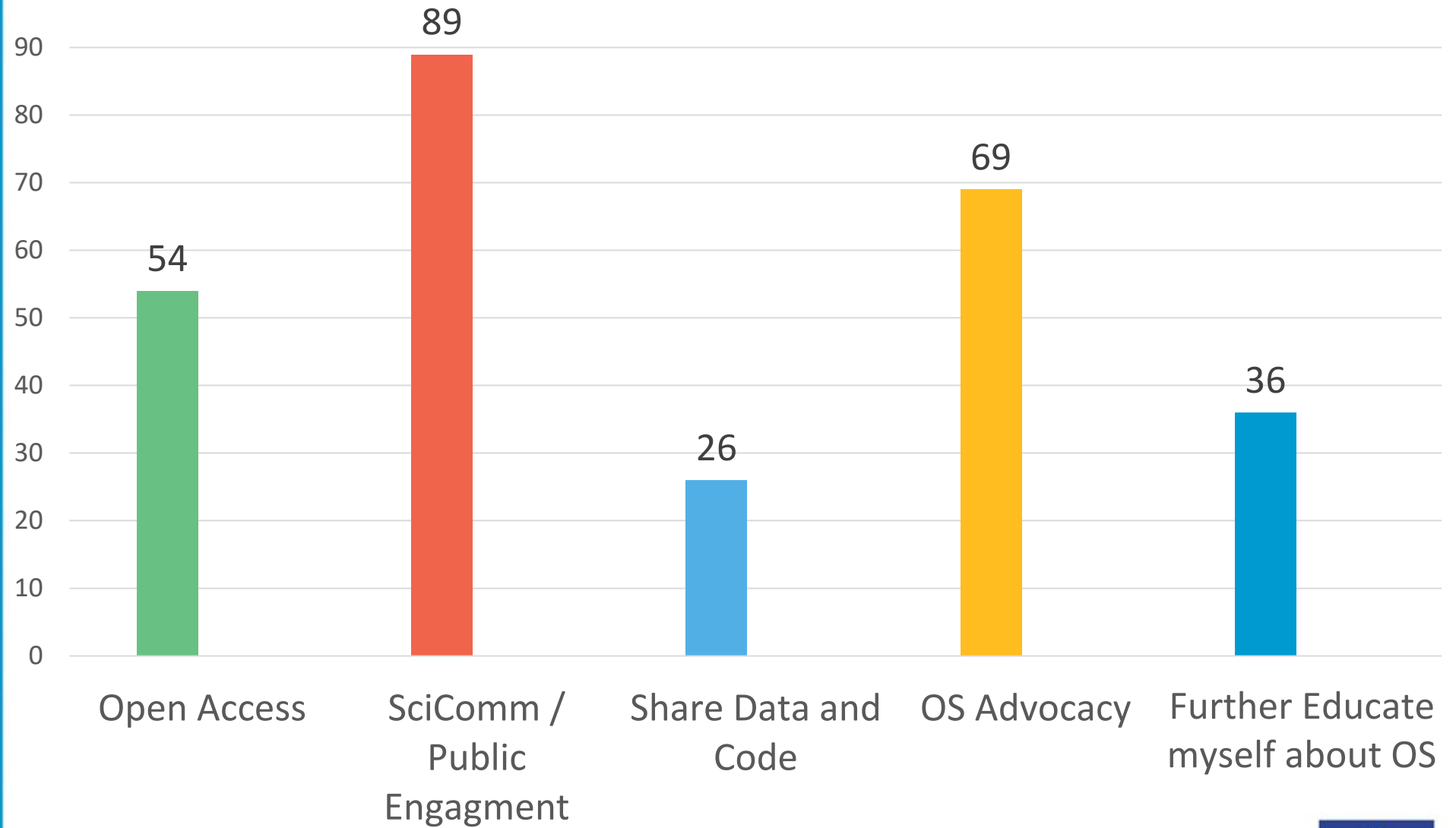
|         |   |
|---------|---|
| 1 Week  | - Update ORCID account  |
| 1 Month | <ul style="list-style-type: none"> <li>- Finalize the review paper that I'm currently working on, upload it to Researchgate and invite other researchers to review it and provide criticism on it</li> <li>- Invite the Open Access team from the TU BS University Library to our institute to give a presentation on OA publishing, the OA publishing fund, the university repository etc. (ADVOCACY)</li> <li>- Contribute to the Wikipedia article of my research discipline (Life Cycle Engineering)</li> </ul> |
| 1 Year  | <ul style="list-style-type: none"> <li>- Publish in an OA journal, using funds from the TU BS OA publishing fund</li> <li>- Include the topic of Open Access in one of our master classes</li> <li>- Do a video summary of my PhD project and publish it</li> <li>- Develop and implement a concept for a citizen science project (e.g. on electric vehicle usage)</li> <li>- Read up on research data management on the TU BS university library website</li> </ul>  |



# 286 Individual Actions from 118 Participants

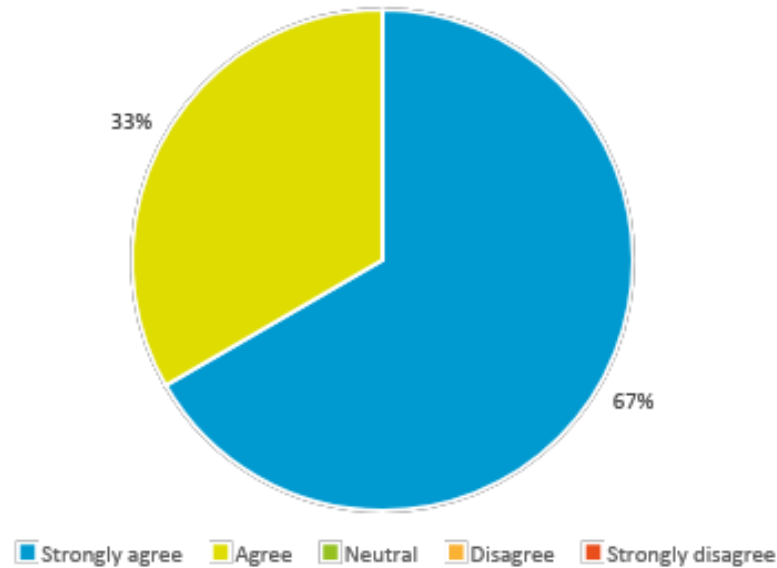


## Individual Action Plans (n=274)



# Evaluation

I have learned valuable knowledge about Open Science



“Thank you again for the highly informative and entertaining workshop”

*Malte Schäfer, Organiser TU Braunschweig*

“the one-day ‘Opening Minds, Changing Habits’ training delivered in an open, interactive, and playful way, the critical concepts of Open Science, and what’s more important, explained what it is, and why it should be a subject that matters to each and all of us.”

*Andrea Troncoso, article in EUSEA newsletter*







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## Thank you for your attention!

Get in touch with us via:

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