



UNIVERSITY OF GRAZ



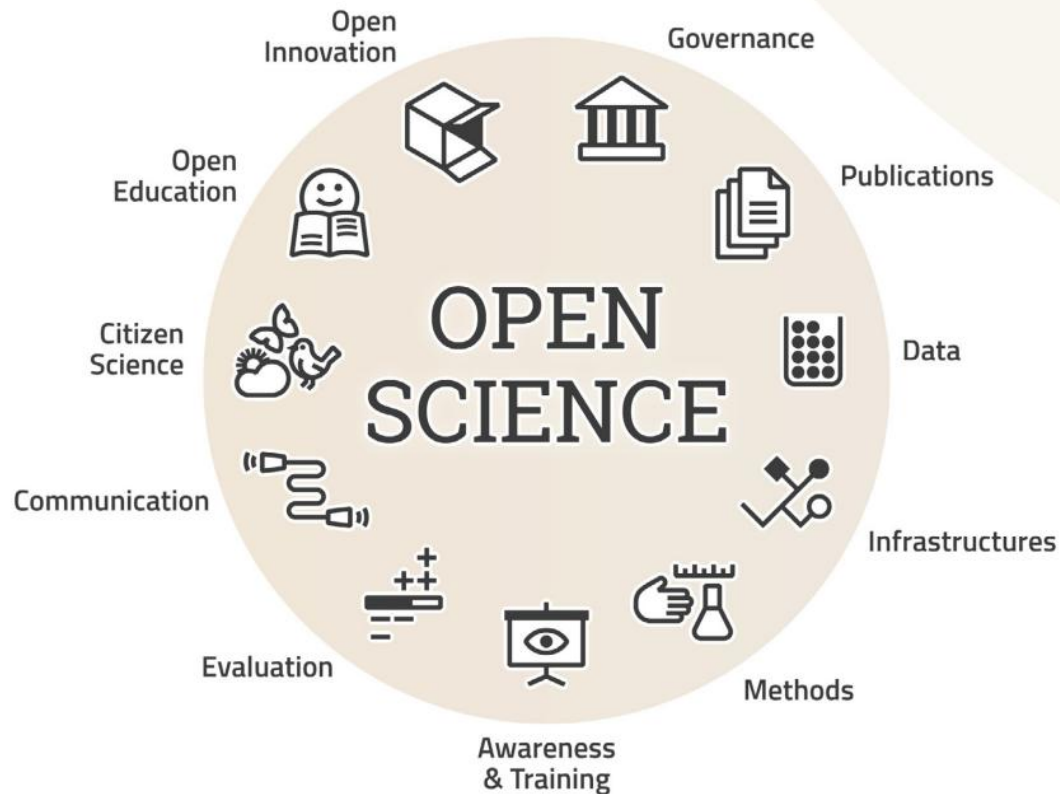
Fostering Open Science

Insights from two bottom-up initiatives

University of Graz

Hildrun Walter, Sarah von Götz, Hilmar Brohmer

04/14/2025

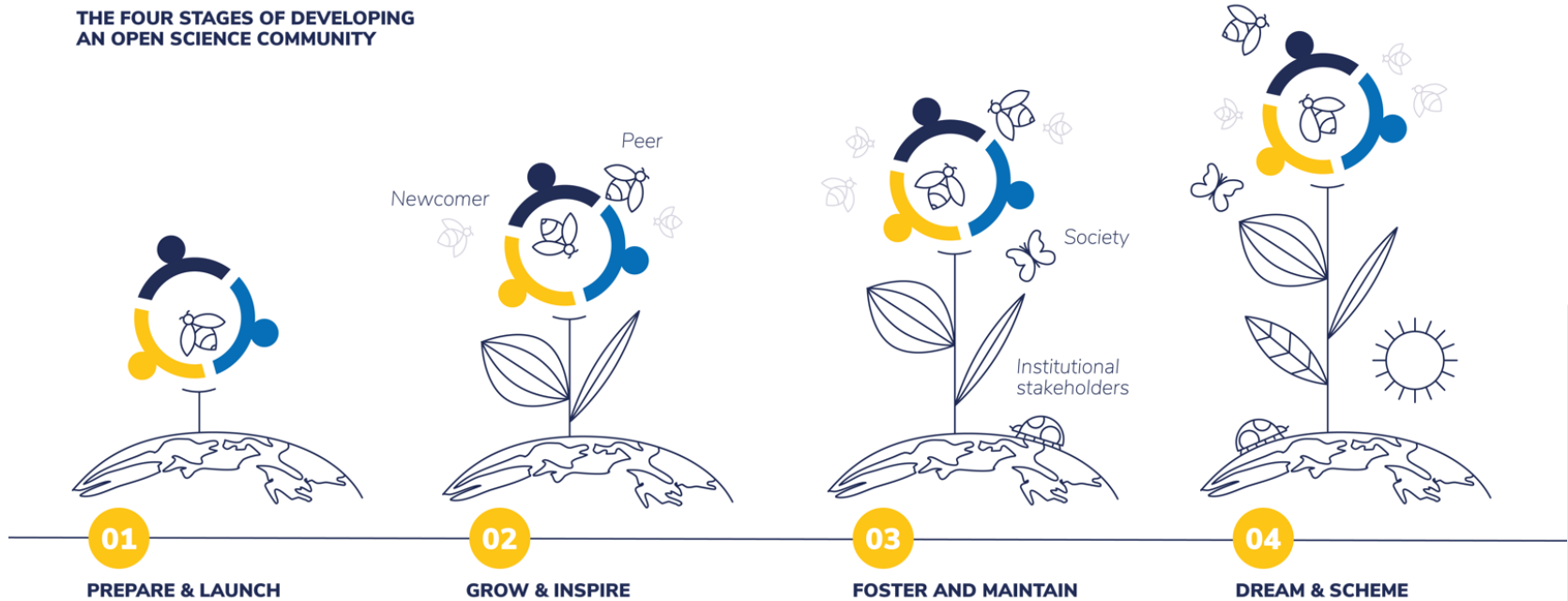


Arqus Alliance/quaint.ch.

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Figure 2: Elements of Open Science

THE FOUR STAGES OF DEVELOPING AN OPEN SCIENCE COMMUNITY



Necomers learn from experienced peers

OSCs work with stakeholders on policies, infrastructure, support

Meet, interact, co-create with society

<https://www.startyouosc.com/docs/>

**Graz Open
Science Initiative:
A local, grassroots
open science
initiative**

**GO
SIT**

The beginning...

Graz OPEN SCIENCE Initiative



- Little awareness of Open Science
→ Goal of fostering our own Open Science Community in Graz
- Summer 2018:
Gabriela Hofer, Hilmar Brohmer & Tony Ross-Hellauer
- Challenge: Open Science is very broad—where do we want to set our focus?

First events

Graz **OPEN SCIENCE Initiative** präsentiert

Mehr Infos unter <https://bit.ly/2Fc0Aqy>

PAYWALL
The Business of Scholarship

ein **FILM ABEND** zum Thema **OPEN ACCESS**

WILEY
1

ELSEVIER
2

SPRINGER NATURE
3

Taylor & Francis
4

SAGE Journals
5

OPEN ACCESS

FREE!

SERVE YOURSELF

\$39⁹⁵

FREIER Eintritt

Do, 29.11., ab 19Uhr, Hörsaal 21, Universitätsplatz 2

A FILM BY JAYAN SCHWITZ
PAYWALL
UTOPIAN THIRTEEN PRODUCTIONS PRESENTS
PRODUCED AND DIRECTED BY JAYAN SCHWITZ • EXECUTIVE PRODUCERS: RUSSELL STONE
MUSIC BY JONATHAN WARR • EDITOR: RICKI LANGER • AUDIO MASTERING BY MARK PASTORIK
www.paywallthemovie.com



Graz **OPEN SCIENCE Initiative** **GO SI**

TU Graz

Die Graz Open Science Initiative (GOSI) und Digital TU Graz präsentieren

Meanings of Reproducibility


Ein eintägiger Workshop zum Thema Reproduzierbarkeit von Wissenschaft

FÜR: interessierte (Jung-)WissenschaftlerInnen aller Fachrichtungen

ZEIT: 17. Mai 2019, 09:15-16:30

ORT: Know Center, Inffeldgasse 13, Erdgeschoss, Hörsaal 19, 8010 Graz

Anmeldung erforderlich: <https://tinyurl.com/GOSI-repro-2019>



Beim Workshop (moderiert von Dr.ⁱⁿ Corinna Koschmieder) erwartet euch...

- eine **Keynote-Präsentation** von Dr. Tobias Heycke (GESIS)
- eine **Podiumsdiskussion** (u.a., Prof.ⁱⁿ Gabriele Berg, Prof. Peter Knoll & Prof.ⁱⁿ Katja Corcoran)
- **interaktive Breakout-Groups** mit Themenfokus (z.B. Open Science, FAIR data)
- **Snacks und Getränke** ☺

Fragen an stefan.reichmann@tugraz.at

Later events

supported by **GO SI** and **TU ISDS**

13.11. OPEN SCIENCE DAY

OF THE INSTITUTE OF PSYCHOLOGY

Basic open science practices for professors, post-docs, & PhD students!

All information on: osf.io/52tqm/

<p>Online-Workshop by Hilmar Brohmer:</p> <p>JAMOVI as a bridge to R</p> <p> → </p>	<p>10.00 – 11.30</p> <p>How to transition from SPSS to R using the intuitive freeware JAMOVI</p> <p>Register online until November 10: tinyurl.com/OSworkshops</p>
<p>Prof. Roland Grabner (future head of the Institute):</p> <p>Welcome address</p>	<p>12.15 – 13.30</p> <p>Brownbag lecture with packed lunch, 30 seats reserved in HS 02.01</p> <p>Register online for seats and lunch until November 10: tinyurl.com/OSbrownbag</p> <p>or follow the live stream online: osf.io/52tqm/</p>
<p>Keynote by Prof. Volker Franz (webcast with lunch in HS 02.01):</p> <p>Doping in (Neuro)Science</p> <p>Prof. Franz (Eberhard Karls University Tübingen) talks about the relevance of registered reports in neuropsychology.</p>	<p>14.00 – 15.45</p> <p>What is a preregistration, how to write a preregistration and where to upload it?</p> <p>Register online until November 10: tinyurl.com/OSworkshops</p>
<p>Online-Workshop by Gabriela Hofer:</p> <p>Preregistration for Beginners</p>	<p>14.00 – 15.00</p> <p>How to store and analyze huge datasets using the open source platform CyVerse</p> <p>Register online until November 10: tinyurl.com/OSworkshops</p>
<p>Online-Workshop by Sarah Stryeck:</p> <p>Research Data Management</p> <p></p>	<p>14.00 – 15.00</p> <p>How to store and analyze huge datasets using the open source platform CyVerse</p> <p>Register online until November 10: tinyurl.com/OSworkshops</p>

<https://osf.io/52tqm/>

supported by **GO SI**

June 30 OPEN SCIENCE DAY

OF THE INSTITUTE OF PSYCHOLOGY

Getting started with open science practices for post-docs, PhD- and Master students!

All information on: <https://osf.io/nvj3/>

<p>Prof. Roland Grabner (Head of the Institute):</p> <p>Welcome address</p>	<p>11.45 – 13.30</p> <p>Brownbag lecture in HS 02.01</p> <p>Register for a free lunch bag until June 27: tinyurl.com/OSDreg22</p> <p>or watch the live stream: tinyurl.com/OSDkey22</p>
<p>Keynote by Anne M. Scheel, MSc.</p> <p>A young researcher's guide to the credibility revolution</p> <p>The replication crisis has fundamentally shaken psychology. Its primary victim were not studies that failed to replicate — far worse, it was our trust in the rigor of standard research practice. This talk reviews what went wrong, how transparent and reproducible practices address the problem, and how early-career researchers can navigate the fault line between old incentives and new standards.</p>	<p>11.45 – 13.30</p> <p>Brownbag lecture in HS 02.01</p> <p>Register for a free lunch bag until June 27: tinyurl.com/OSDreg22</p> <p>or watch the live stream: tinyurl.com/OSDkey22</p>
<p>Panel Discussion with Anne Scheel, MSc., Prof. Georg Kramer, Prof. Mathias Benedek, Ana Arsenovic, MSc. & Dr. Sarah Stryeck</p> <p>Early career researchers & open science</p>	<p>13.45 – 15.15</p> <p>Hybrid workshop</p> <p>Online or in person: Room ZACH, Mozartgasse 14</p> <p>Infos and registration: tinyurl.com/OSDreg22</p>
<p>Workshop hosted by Clemens Brunner:</p> <p>Getting started with R & RStudio</p> <p></p>	<p>13.45 – 15.15</p> <p>Hybrid workshop</p> <p>Online or in person: Room ZACH, Mozartgasse 14</p> <p>Infos and registration: tinyurl.com/OSDreg22</p>
<p>Workshop hosted by Hilmar Brohmer:</p> <p>Preregistration for Beginners</p>	<p>15.30 – 17.00</p> <p>Hybrid workshop</p> <p>Online or in person: Room ZACH, Mozartgasse 14</p> <p>Infos and registration: tinyurl.com/OSDreg22</p>

<https://osf.io/nvj3/>

GO SI OPEN DISCUSSION ROUND

open for all students, researchers, and interested people from the universities in Graz (register below)

organized by **Graz Open Science Association**

Open Science meets AI

Implications for research processes and academic hiring decisions

with contributions from:

Prof. Jana Lasser (RWTH Aachen)	Prof. Horst Bischof (Rector TU Graz)	Dr. Anne Gärtner (TU Dresden)	Dr. Tony Ross-Hellauer (TU Graz)	Prof. Joachim Reidl (Vice-Rector Uni Graz)

when? January 31, 2024, 3–5pm

where? IDEA_Lab, Leechgasse 34, 8010 Graz

For whom? Open to everyone! Register here: tinyurl.com/OSXIGraz

<https://osf.io/nb68m>

ReproducibiliTea Journal Club

DANIELA ORBEN



A journal club to fix science

ReproducibiliTea can build up open science without top-down initiatives, says Amy Orben.

- First ReproducibiliTea Journal Club → founded by Amy Orben, Sam Parsons, and Sophia Crüwell in early 2018 at Uni Oxford
- Aims:
 - Introduce people to interesting and pressing issues around reproducibility and the Open Science movement
 - Help build an Open Science community and create awareness of Open Science
 - Have an excuse to read and discuss some really cool papers
- Right now there are > 120 ReproducibiliTea Journal Clubs in 29 different countries.



Our ReproducibiliTea Journal Club

- Started spring 2019
- Usually 3-4 sessions per term
- At the beginning of the term papers are selected that are relevant to the replication crisis and scientific improvements
- topic selection: open beer review or internal selection
- Papers are discussed in person over cups of tea and snacks
- discussion leader (volunteers) + participants



Our ReproducibiliTea Journal Club



- 40 „Teas“ so far
- All papers and slides on osf: <https://osf.io/r3hcn/>
- Topics relevant and interesting for participants
- Opportunity for peer exchanges about Open Science

Preregistration
Hypothesis Testing
Registered Reports Teaching OS
Feminist View
Science Communication
Incentives for OS
Open Data/ FAIR Data
Open Science Culture
Research Assessment Statistical Power
Problematic Research Practices
Replication/ Reproducibility Crisis
Trust in Science
Scientific Errors
Open Access
Big Team Science

(Indirect) effects at the Department of Psychology

- OS in bachelor, master, and PhD courses
- Strongly encouraged by the Doctoral School
- Slow increase of OS practices in PhD theses
- Bottom-up effects: students and early career researchers bring open science practices into their working groups

Upcoming events and further information on our website



<https://graz-openscience.uni-graz.at>

The poster features a background image of a person in a blue shirt working at a desk with a laptop. In the top left corner, there is a logo for 'ReproducibiliTea' which consists of a blue hexagon containing a white teacup icon with steam rising from it. In the top right corner, the text reads 'Graz OPEN SCIENCE Initiative' in red and black, followed by the website 'tinyurl.com/teamGOSI' and the email 'Questions to open.science@uni-graz.at'. The main title 'Publishing Open Access Pros, Cons & Controversies' is displayed in large green letters. Below the title, it states 'Discussion Round organized by the Graz Open Science Initiative' and 'Presentation: Prof. Christof Körner'. At the bottom, there is a section for a paper by Frank, J., Foster, R., & Pagliari, C. (2023) titled 'Open access publishing—noble intention, flawed reality' from the journal 'Social Science & Medicine', with a DOI link. The event date and location are given as 'May 19, 17:00-18:00' at 'Leechgasse 42, 3rd floor'. A map shows the location at the intersection of Leechgasse and Idea Lab, near the SBZ - Sozial- und Begegnungszentrum. The text 'Come along for discussions, snacks & open science!' is at the bottom.

ReproducibiliTea

Graz OPEN SCIENCE Initiative
tinyurl.com/teamGOSI
Questions to open.science@uni-graz.at

Publishing Open Access

Pros, Cons & Controversies

Discussion Round organized by the
Graz Open Science Initiative

Presentation: **Prof. Christof Körner**

Paper: Frank, J., Foster, R., & Pagliari, C. (2023). **Open access publishing—noble intention, flawed reality.** *Social Science & Medicine*, 317, 115592.
<https://doi.org/10.1016/j.socscimed.2022.115592>

This event is **open to all** interested participants. No prior knowledge is necessary. We will start our discussions on the basis of the provided papers. Reading them beforehand is beneficial but not required.

Discussions will be held in **English**.

Come along for discussions, snacks & open science!

Date and Location:
May 19, 17:00-18:00

Leechgasse 42
3rd floor

Idea Lab

SBZ - Sozial- und Begegnungszentrum

Arqus Open Science Ambassador Network

14th of April, 2025

Graz, Open Science – Opportunity or Challenge?



UNIVERSIDAD
DE GRANADA



UNIVERSITÄT
LEIPZIG



Université Claude Bernard
Lyon 1



Maynooth
University
National University
of Ireland Maynooth



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



Vilnius
University



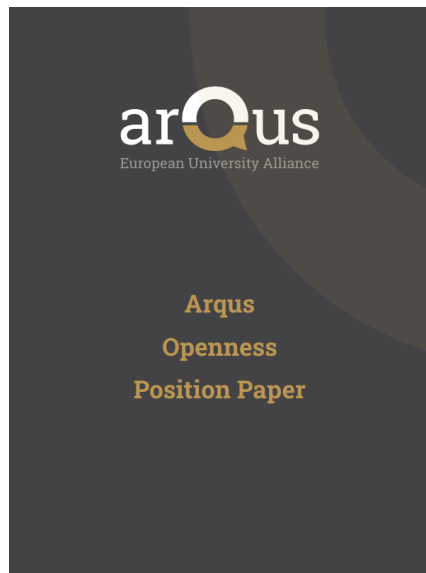
Uniwersytet
Wrocławski

The Start of Open Science in Arqus

2019 – 2022: Project Description **Mission**

6.2 Openness:

- establishing a task force to enhance Open Science and Citizen Science;
- development of a position paper



Arqus Openness Position Paper

Content

1. Preamble
2. Vision: A future with Open Science
3. Definition of Open Science
4. Areas of tension
5. Aims and recommendations
6. Validity

Annex: Achievements of Arqus Institutions

Read the position paper



The Start of Open Science in Arqus

Aims & recommendations



Governance

Aims

- Enable participation of various stakeholders in the development of OS aims and policies
- Conduct a wholistic and coordinated transition towards OS, while considering and responding to possible negative effects
- Establish a network of OS Ambassadors

Recommendations

- Ensure involvement of the research community in the creation of new policies
- Monitor and evaluate the implementation of OS at Arqus institutions based on common standards, and display data on the current status
- Appoint an OS coordinator or a steering group to decide on strategic issues
- Define the role of an OS Ambassador and identify OS ambassadors at each institution to give discipline-specific advice and recommendations, and connect them across and beyond Arqus



Open Science Ambassador Network



Open Science Ambassador Network

OS activities

1 Open Science Webpage

Open Science

Open Science

Benefits & requirements

Open Science
Ambassador Network

Webinars on Open
Science

Open Science support at
Arqus Universities

Key documents



OS activities

1 Open Science Webpage

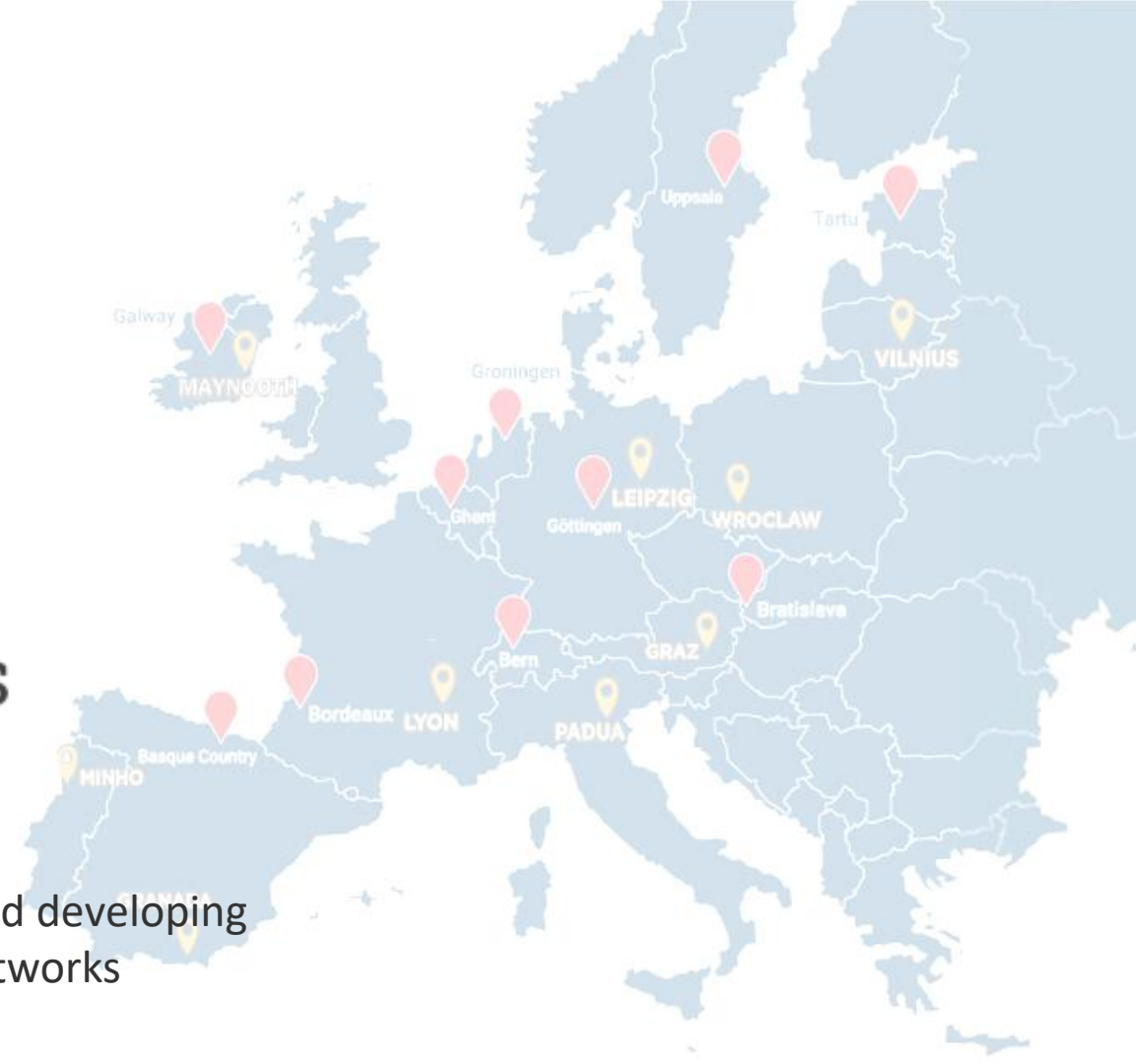
2 Webinar Series

ENLIGHT

arQus

Goal

Discussing needs, challenges and expectations of implementing and developing Open Science activities in the networks



OS activities

1 Open Science Webpage

2 Webinar Series with ENLIGHT Alliance

3 The future of OS Ambassador Network: **Community of Practice**

- Communication and materials hub
- Support
- Awareness: Open Science Award for best practice (early stage researchers)
- Advocacy: representation on conferences putting OS on the agenda

OS is both, opportunity *and* challenge!



Areas of tension

Conceptual debates about OS

How to achieve the maximum benefit & impact of research results for society?

- Open licensing may impede translation of research results into products
=> missing business case

How to deal with intellectual property rights of researchers?

- Need for complementing approaches of OS and IPR

Practical issues during implementation

- Financial and administrative burden to set up the OS infrastructure
- Cultural shift in research needed
 - Alternative research(er) assessment
 - Academic freedom to chose the publication venue for own work (impact factor)

Advancing OS as an Alliance

Challenges

- Complexity of OS and areas of tension complicate the development of a common strategy
- Different institutions makes it more difficult to get to know respective persons for different OS areas (9 unis = 9+ perspectives)
=> Finding the „right“ person

Opportunities

- Reflection from different perspectives make strategies more reasoned and realistic
- Give decisions and developments more momentum
- Chance to mobilize more persons and to gain synergistic effects

Thank you