



NIEDERSÄCHSISCHE STAATS- UND  
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN

| SUB

# Open Science Activity Highlights

Wolfram Horstmann, LIBER Special Advisor  
Birgit Schmidt, LIBER Executive Board & Steering Group Chair

**Open Science Conference -- United Nations (NYC)**  
**18/19 November 2019**





**Local**



**Global**



**SUB**



**Local**



# 450

## libraries

**DEVOTED TO  
OPEN SCIENCE**

Favouring policies, tools and infrastructures which reshape research processes and mindsets in favour of Open.

# ONE

## mission

**WORLD-CLASS  
RESEARCH**

Providing knowledge and training so that libraries can support outstanding research and —by extension —the growth and sharing of knowledge.





# Resources & Guidance

Alerting our network to top trends  
and issues through reports, factsheets  
and other resources.

*[www.libereurope.eu/resources](http://www.libereurope.eu/resources)*



LIBER  
Open Science  
Roadmap

The graphic features a large yellow circle in the center with the text 'LIBER Open Science Roadmap'. This circle is set against a dark blue background filled with a network of orange dots connected by thin lines, resembling a molecular or data network. The entire composition is enclosed within a light blue circular border.

# Vision: the research landscape in 2022

## Open Access

Is the main form of publishing

## Research Infrastructure

Is participatory, tailored and scaled to the needs of diverse disciplines

## Research Data

Is Findable, Accessible, Interoperable and Reusable (FAIR)

## Cultural Heritage

Of tomorrow is built on today's digital information

## Digital Skills

Underpin a more open, transparent research life cycle



# Network Driven Innovation





# STRATEGIC DIRECTION #1

## Innovative Scholarly Communications

Giannis Tsakonas

Steering Committee Chair



# HIGHLIGHTS



**Copyright Reform:**  
TDM exception for  
research & many  
other positives for  
libraries.



**Plan S**  
**Making full and  
immediate Open  
Access a reality**

**Plan S:** Called for  
an inclusive  
approach;  
recommended 6  
improvements.



**Scholarly Metrics  
Recommendations**  
*for*  
**Research Libraries:  
Deciphering the  
Trees in the Forest**

**Metrics:** Extensive  
report, presented at  
2019 EUA Workshop.



**OA Monographs  
Survey:** More than 60  
responses. Report  
coming soon.



# STRATEGIC DIRECTION #2

## Digital Skills & Services

**Bertil Dorch**  
Steering Committee Chair

# HIGHLIGHTS



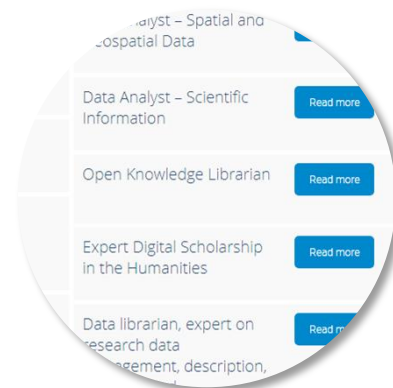
**Emerging Leaders:**  
25 graduates (2018)  
& 27 new candidates  
(2019-2020).



**JOURNÉES:** Host  
selected. Next  
seminar: 13-15  
May 2020.



**Digital Humanities:**  
Extensive survey of the  
European DH landscape  
in libraries.



**Job Description  
Repository:** Updated  
and extended.  
[libereurope.eu/job-  
descriptions](https://libereurope.eu/job-descriptions)



# STRATEGIC DIRECTION #3

## Research Infrastructures

**Birgit Schmidt**  
Steering Committee Secretary

# HIGHLIGHTS



## LIBER Webinar: *Finding & Reusing Research Data*

**Webinars:** Topics included research data, reproducibility, Library Carpentry etc.



## FAIRness of Repositories & Their Data

*A Report from LIBER's  
Research Data Management  
Working Group*

**FAIR Repository  
Survey:** Just  
published!  
<https://doi.org/10.5281/zenodo.3251593>



**Linked Open Data  
Survey:** Best practices  
for library Linked Open  
Data publishing to be  
shared soon.



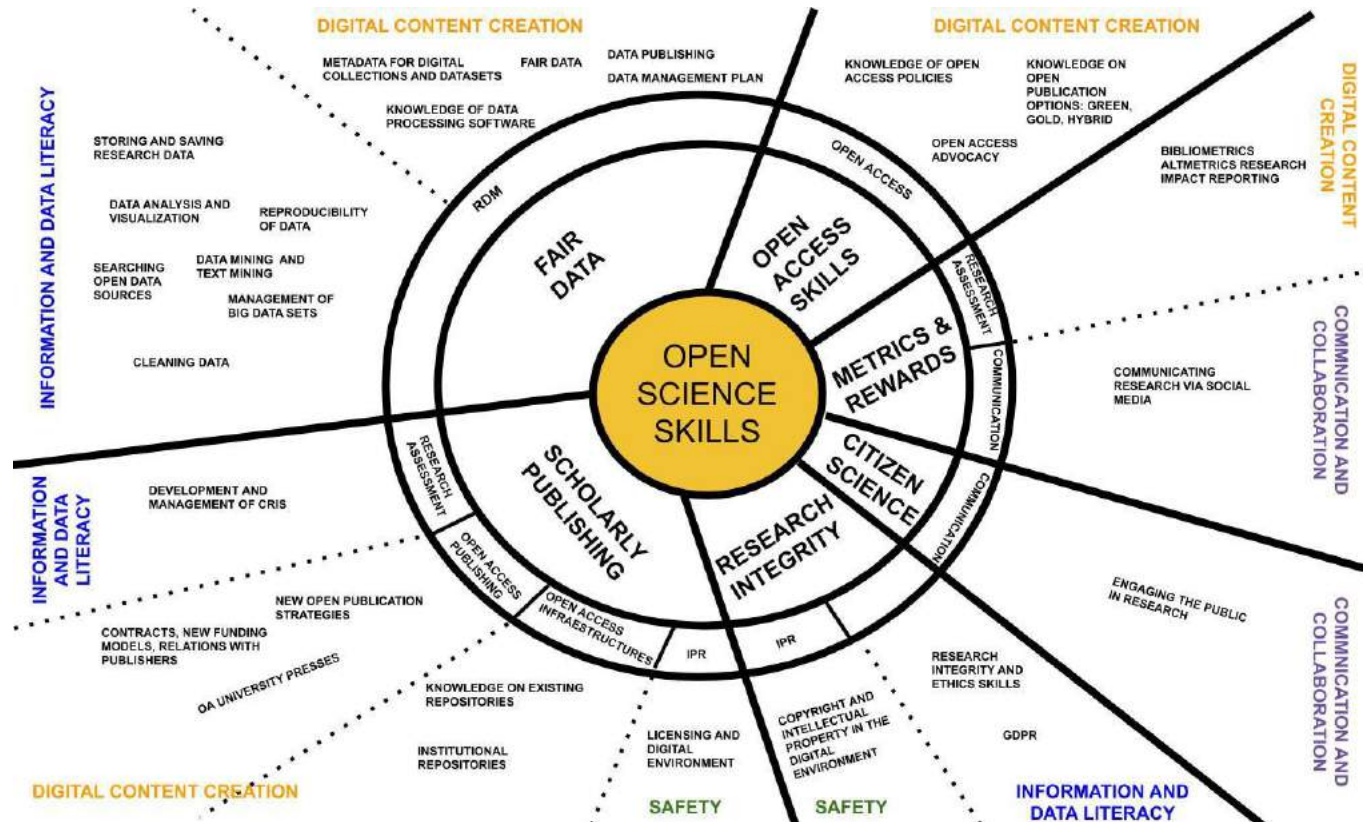
**Architecture:** Seminar  
in Luxembourg being  
organised, 1-3 April  
2020.



# Digital Skills

- **What should we expect from new professionals** emerging from library and information science schools?
- **How do we include non-librarian professionals** such as researchers, computer science or data visualization engineers in library services?
- **How can we train research librarians** to establish and share new skills, and to support research activities more efficiently?

# Digital Skills







## Social Sciences and Humanities Community Building: Training

*SSHOC pools and harmonises the tools and services that unlock heterogeneous SSH data collections across Europe. This makes data easy to process, enrich, analyse and compare.*

### Our SSH training activities



#### Training events

Enrich your knowledge! Treat yourself to a SSHOC training event. On- and offline. All around Europe. You choose!



#### Training materials

Join our training community and be the first to know about new training materials, exercises and practical case studies.



#### Train-the-trainer toolkit and bootcamps

Use our resources to support your work as a trainer in the SSH field.



#### Training community

List your institute as a training hub, meet your SSH-trainer colleagues, and deliver SSH training using our new materials.

• OPEN SCIENCE FAIR • Porto, 16-18 September 2019

#### Contact us

Vasso Kalaitzi, SSHOC/LIBER, [vasso.kalaitzi@kb.nl](mailto:vasso.kalaitzi@kb.nl)  
Ellen Leenarts, SSHOC/DANS, [ellen.leenarts@dans.knaw.nl](mailto:ellen.leenarts@dans.knaw.nl)  
Irena Vlapavc Brvar, SSHOC/ADP, [irena.vlapavc@fdv.uni-lj.si](mailto:irena.vlapavc@fdv.uni-lj.si)

### Empowering Users, Building Expertise

Join our Social Sciences and Humanities training community to engage with other SSH trainers, get a sneak preview of new training materials, such as our train-the-trainer toolkit, and volunteer to host one of our workshops.

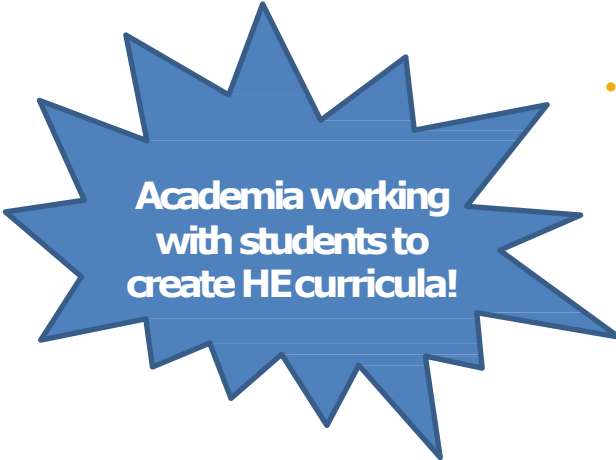
Register at [sshopencloud.eu/join-ssh-training-community](https://sshopencloud.eu/join-ssh-training-community)







# INOS Citizen Science Training



Academia working  
with students to  
create HE curricula!

## Integrating Open and Citizen Science Into Active Learning Approaches in Higher Education

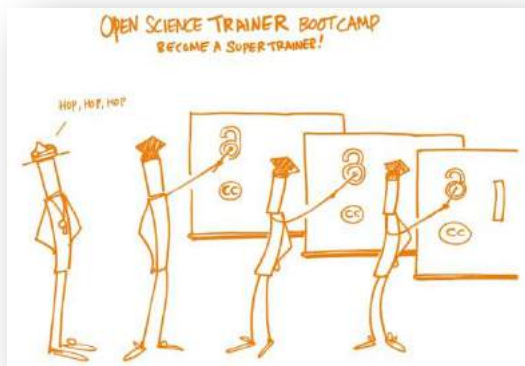
*An Erasmus+ project*

- **Evidence-based overview** of trends;
- Creation of a **learning-design framework**;
- **Open Knowledge & Innovation Activities** (e.g., datathons, hackatons, dotmocracy workshops, Innovation sprint);
- **Upskilling** through the production of at least **15 learning and training resources**.

<https://libereurope.eu/our-activities/projects/inos>

# FOSTER Research Training

- OpenScience **Training Toolkit**
- **Badges** for taking courses, following learning paths
- **Trainers Directory** and **resources for trainers** (illustrations, handbook, presentations).





# Insights

## Challenges



**Lack of awareness** among librarians, researchers for the need to develop new skills.

**Time needed** to develop new skills, systems, frameworks.

**Little or no budget** available to do the work.

**Training materials** are hard to find.

**Institutions need to be persuaded** that training is needed.

## Best Practices



**Project objectives** should be well defined.

**Hire people from other disciplines** to bring fresh perspective and skills.

**Ideally work as a team** because one person cannot do it all.

**Link to institutional, national and European guidelines** when deciding which skills to prioritise.

**Don't reinvent the wheel.** For example, **EU funded projects** provide results and resources which you can reuse.



**Local**



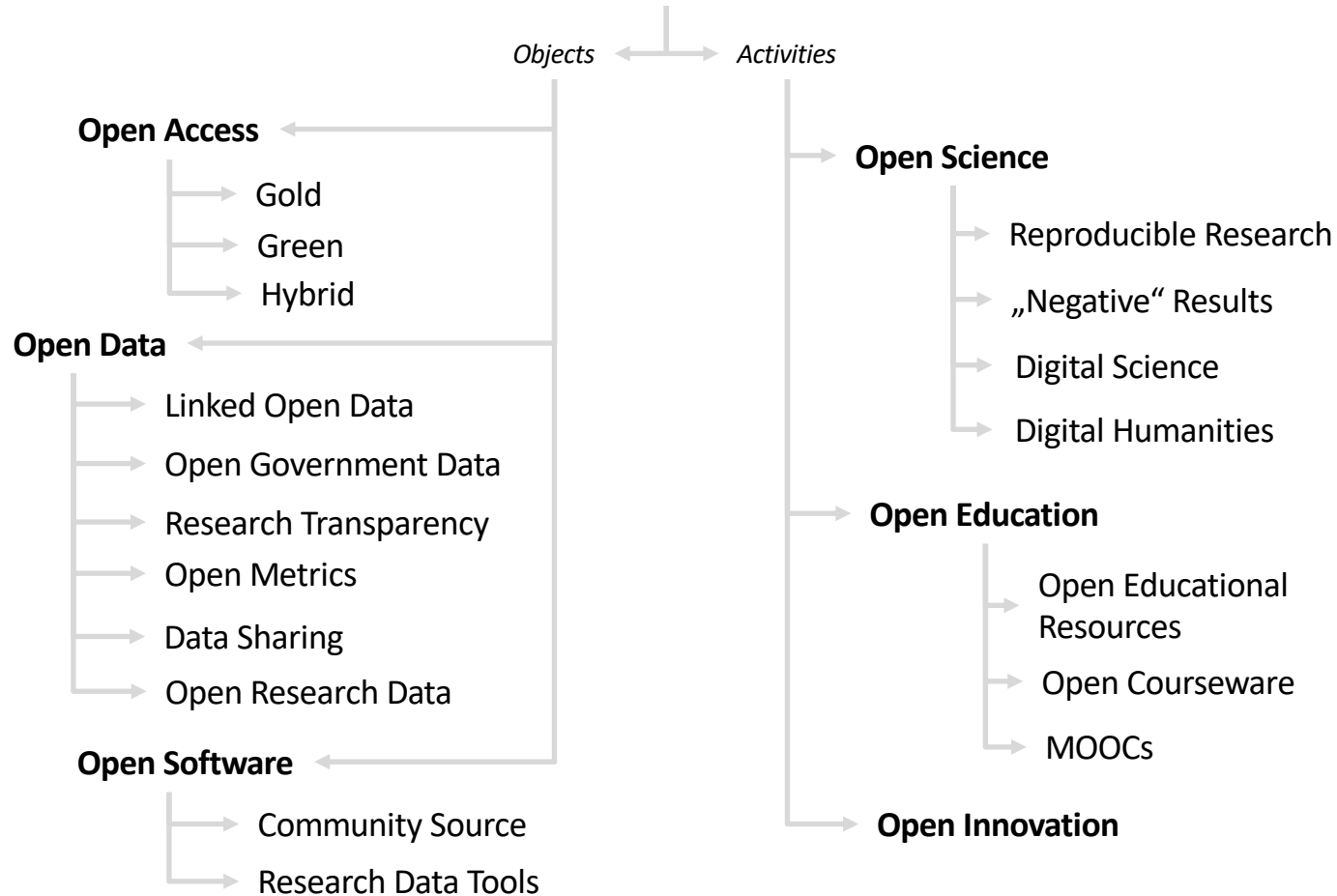
**Global**



**SUB**

**Global** ← SUB

# Open Academic Culture



# Local Individuals



**Vinodh Ilangovan**

**Max Planck Institute for Biophysical Chemistry**

Research Fellow

Goettingen, Germany



I am a biomedical scientist working on biological clocks and sleep. I think about Open Science, Open Peer Review and Open Data as a means to achieve reproducibility in research. I am interested on how early career researchers can steer the evolution of research evaluation. I will be happy to discuss how open access enhances public literacy (scientific temper).


# Local Groups



**primate cognition** Leibniz-ScienceCampus

About us **Research** Funding measures Events Services Statistical

Home ▶ Research ▶ Open Science



Members of the ScienceCampus participating in the 'Open Science Team' at the Göttinger Altstadtlauf 2017 to promote free access to scientific knowledge

### Open Science

The modern knowledge-based society is driven by the constant innovation and scientific progress. The success of this future development rests critically on the integrity, reproducibility, and accessibility of research. The Open Science movement is thus dedicated to ensuring that scientific findings are trustworthy and replicable, to make the outcomes of research freely available to the scientific community, and to improve the dissemination of scientific results to the public.



# Local Initiatives

The screenshot shows the ReplicationWiki website in a web browser. The browser's address bar displays the URL `replication.uni-goettingen.de/wiki/index.php/Main_Page`. The website features a navigation sidebar on the left with links to 'Main', 'Community portal', 'Current events', 'In the news', 'In the literature', 'Recent changes', 'Random page', 'FAQ', and 'Help'. Below these are 'Toolbox' and 'What links here' sections. The main content area is titled 'Welcome to Replication in Economics!' and includes a search bar, a list of navigation links (Replication in economics, Journal policies, Replication in teaching, Literature, Links, Replication in other fields of science, Useful tools), and a section for 'Find studies and replications for your own research.' This section includes a magnifying glass icon and a list of search criteria: 'Find one of 2,097 studies to replicate', 'Browse in 144 journals, 29 Working paper series & blogs and 18 books', 'Browse by methods, software used, JEL codes, keywords, authors, data type, geographical origin of data, and data source', and 'Find one of 360 replications and 6 Corrections'. Below this is a section titled 'Join the project' with a paragraph explaining the project's goals and a list of 'Most recently added replication studies' with dates and titles. The bottom of the page features a section titled 'About the project' with a paragraph explaining the project's purpose and a list of 'News' items, including a conference announcement.

ReplicationWiki

replication.uni-goettingen.de/wiki/index.php/Main\_Page

Log in / create account

Page Discussion

Read View source View history

Go Search

Welcome to Replication in Economics!

8,566 articles

- Replication in economics
- Journal policies
- Replication in teaching
- Literature
- Links
- Replication in other fields of science
- Useful tools

Search:

- Find one of 2,097 studies to replicate
- Browse in 144 journals, 29 Working paper series & blogs and 18 books
- Browse by methods, software used, JEL codes, keywords, authors, data type, geographical origin of data, and data source
- Find one of 360 replications and 6 Corrections

Enter a new:

- replication
- replicated study
- Study lacking replication

Find studies and replications for your own research.

7 of 11

About the project

For scientific progress, it is pivotal to review research findings by independently replicating results, thus making the findings more reliable. However, in econometric research, it is not yet common practice to publish replication findings. This wiki serves as a database of empirical studies, the availability of replication material for them and of replication studies. It can help teaching replication to students. Seminars at several faculties internationally were already taught for which the information of this database was used.

So far the focus has been on some leading journals in economics. Replication results can be published as

Join the project

You can join the project by entering a new replication or empirical studies that could be replicated. For the latter you can vote which ones you find most relevant to be replicated. Furthermore, you can improve the articles in the wiki and make comments. Under current events you can announce news and upcoming events. The community portal lists open tasks and suggestions for the wiki.

Most recently added replication studies

- 3 October 2017: News Shocks and the Slope of the Term Structure of Interest Rates: Comment (AER 2017)
- 3 October 2017: The Cyclicalities of Sales, Regular, and Effective Prices: Business Cycle and Policy Implications: Comment (AER 2017)
- 1 October 2017: Shy of the Character Limit: "Twitter Mood Predicts the Stock Market" Revisited (EJW 2017)
- 1 October 2017: A comment on "Three reasons to use annual payments in contingent valuation" (J Env Econ & Management forthcoming)
- 29 September 2017: The Power of Abortion Policy: Re-Examining the Effects of Young Women's Access to Reproductive Control (JPE forthcoming)

News

AIRLEAP @ Conference "An Urgency for Evidence and Transparency in Economic Analysis and Policy", St Louis, USA, October 13th-14th will have a session on replication in empirical economics

# Local Meet-ups

- Initiated in December 2016
- Focus on Open Science topics: research data, publishing, peer review, research integrity, etc.
- Junior researchers, librarians, research management, HE didactics, from UGOE, Max Planck Institutes etc.
- Outreach primarily via graduate schools' mailing lists



## Work mode

- Quarterly Meet-ups with short presentations & group discussions
- Working groups (monthly): Teaching Open Science, HackyHour

# Local Infrastructure Projects

The screenshot shows the SUB Göttingen website. The header includes the SUB logo and the text 'NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN'. The main navigation bar contains links for 'Göttingen State and University Library', 'Projects & research', 'Projects A - Z', and 'Current projects'. A left sidebar lists various services like 'News', 'First-time visitor?', 'Contact', 'Locations & facilities', 'Borrowing & renewing', 'Copying & digitising', 'Subjects', 'Collections & Historical Holdings', 'Digital library', 'Publishing & Open Access', 'Learning & teaching', 'Projects & research', 'Support us', and 'About us'. The main content area is titled 'Current projects' and includes a sub-header 'Current projects A - Z' with a list of project categories: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. The 'Current projects' section lists several projects, including 'Johann Friedrich Blumenbach - online', 'Key Components of Information and Media Literacy PLUS', 'Library of Neology', 'Mathematics Information Service', 'Open Access-Statistics 2', 'OpenAIRE', 'OpenAIRE Advance', 'OpenUP', 'RDA Europe 4.0', 'Scholarly Journals and Newspapers in the Age of Enlightenment', 'Student Digital Competencies', 'Text Database and Dictionary of Classic Mayan', 'The reception of Goethe's work 'Zur Farbenlehre' in Berlin 1810-1832', 'Theodor Fontane Notizbücher II', 'Göttingen Academy of Sciences and Humanities- Digital Library', and 'GRACE'.

The screenshot shows the GWDG website. The header includes the GWDG logo and the text 'Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen'. The main navigation bar contains links for 'Research & Education / PROJECTS'. The main content area is titled 'PROJECTS' and lists several projects: BexIS++, CLARIN-D, CleanSky, DARIAH-DE, EGI ENGAGE, eLabour, GenePaint, GFBio, GRACE, HDC, JOINTLY, koala, MIKELANGELO, NEPHELE, Profit-HPC, RADAR, SENDATE, SFB 755, SWZ, SFB 990, and Up2U.

# Göttingen eResearch Alliance

- Central contact point, service broker and provider for eResearch-related topics
- Provider of trainings on research data management
- Networking on different levels for advancing the initiative for the campus (locally, nationally & internationally)
- Development of services and software components



# Göttingen eResearch Alliance

Institutional data repository



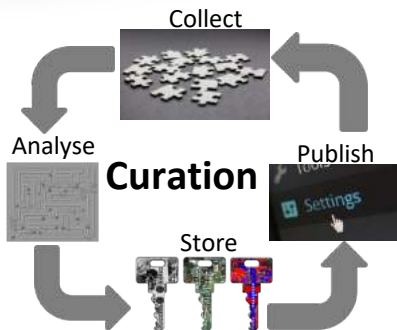
Training



Instruments Portal



RDM-Plans





1st NFDI Conference, 13–14 May 2019

## **Purpose and Vision of a National Research Data Infrastructure**

Prof. Dr.-Ing. Frank Allgöwer  
Chairman of the DFG NFDI Expert Committee





## National Research Data Infrastructure

### General information on the NFDI Programme

- ▶ Decision by the Joint Science Conference (GWK) on 16 November 2018
- ▶ Initial funding of approximately €85 million per year (incl. 22% overhead)
- ▶ Project funding for 10 years; decision on continued financing in 2026
- ▶ Expected to fund approximately 30 consortia, selected in 3 calls according to the criteria stated in Federal-State Agreement of November 2018
- ▶ Only consortia with a clear funding recommendation based on the review and evaluation process can receive funding
- ▶ Final funding decisions will be made by the GWK, first decisions are expected to be made in June 2020

Purpose and Vision of the NFDI / 1st NFDI conference / 13-14 of May 2019 / Bonn



# EC Initiatives

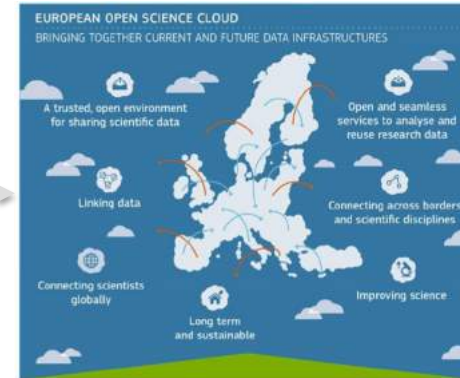
## Digital Single Market

The Digital Single Market strategy aims to open up digital opportunities for people and business and enhance Europe's position as a world leader in the digital economy.

## A European strategy for Open Science

The European Commission has launched the "[European Cloud Initiative](#) - Building a competitive data and knowledge economy in Europe" to endorse Open science. It will enable researchers to process the huge amounts of scientific data generated by research and to share their scientific results while improving access to knowledge and thus, innovation.

More information is available on the [European Open Science Cloud](#) webpage.





# Research Data Alliance

The screenshot shows the Research Data Alliance (RDA) website. The header is green with the tagline "Building the social and technical bridges to enable open sharing and re-use of data" and navigation links for RDA EU, RDA US, CONTACT US, LOGIN, and REGISTRATION. Social media icons for RSS, YouTube, LinkedIn, and Twitter are also present. The main content area features three columns: "O&A Members" with 58 members, "MEMBERSHIP" with 9253 members and a "Register now" link, and "RDA Groups" with 88 groups and an "Explore Groups" link. Below this is a navigation bar with links like "ABOUT RDA", "GET INVOLVED", "GROUPS", "RECOMMENDATIONS & OUTPUTS", "RDA FOR DISCIPLINES", "PLENARIES & EVENTS", and "NEWS & MEDIA". The "About RDA" section is highlighted, showing the date "22 March 2016", "45380 reads", and social media links for Facebook and Twitter. The main text states: "The Research Data Alliance (RDA) builds the social and technical bridges to enable the open sharing and re-use of data." It provides background on the RDA's launch in 2013 by the European Commission, the US National Science Foundation, and the Australian Government. A sidebar on the right lists "Organisational Bodies" including the RDA Council, RDA Council Subgroups, RDA Secretariat, RDA Technical Advisory Board, RDA Organisational Advisory Board, RDA Funders Forum, and RDA Secretary General. Other links include "Who is RDA?", "RDA for Newcomers", "Our Funders", and "Code of Conduct".

Building the social and technical bridges to enable open sharing and re-use of data

RDA EU RDA US CONTACT US LOGIN REGISTRATION

**RDA**  
RESEARCH DATA ALLIANCE

**O&A Members** 58  
Active Organisational & Affiliate members

**MEMBERSHIP** Members: 9253  
Becoming a member of RDA is simple and open to both individuals and organizations  
[Register now](#)

**RDA Groups** WG & IGs: 88  
Discover what RDA Working and Interest Groups and all other Groups are up to and find out how to join them. [Explore Groups](#)

ABOUT RDA GET INVOLVED GROUPS RECOMMENDATIONS & OUTPUTS RDA FOR DISCIPLINES PLENARIES & EVENTS NEWS & MEDIA

## About RDA

[Home](#) » [About RDA](#)

22 March 2016 45380 reads Facebook Twitter

### The Research Data Alliance (RDA) builds the social and technical bridges to enable the open sharing and re-use of data.

The Research Data Alliance (RDA) was launched as a community-driven initiative in 2013 by the European Commission, the United States Government's National Science Foundation and National Institute of Standards and Technology, and the Australian Government's Department of Innovation with the goal of building the social and technical infrastructure to enable open sharing and re-use of data.

RDA has a grass-roots, inclusive approach covering all data lifecycle stages, engaging data producers, users and stewards, addressing data exchange, processing, and storage. It has succeeded in creating the neutral social platform where international research data experts meet to exchange views and to agree on topics including social hurdles on data sharing, education and training challenges, data management plans and certification of data repositories, disciplinary and interdisciplinary interoperability, as well as technological aspects.

**Organisational Bodies**

- RDA Council
- RDA Council Subgroups
- RDA Secretariat
- RDA Technical Advisory Board
- RDA Organisational Advisory Board
- RDA Funders Forum
- RDA Secretary General

**Who is RDA?**

- RDA for Newcomers
- Our Funders
- Code of Conduct



**Local**

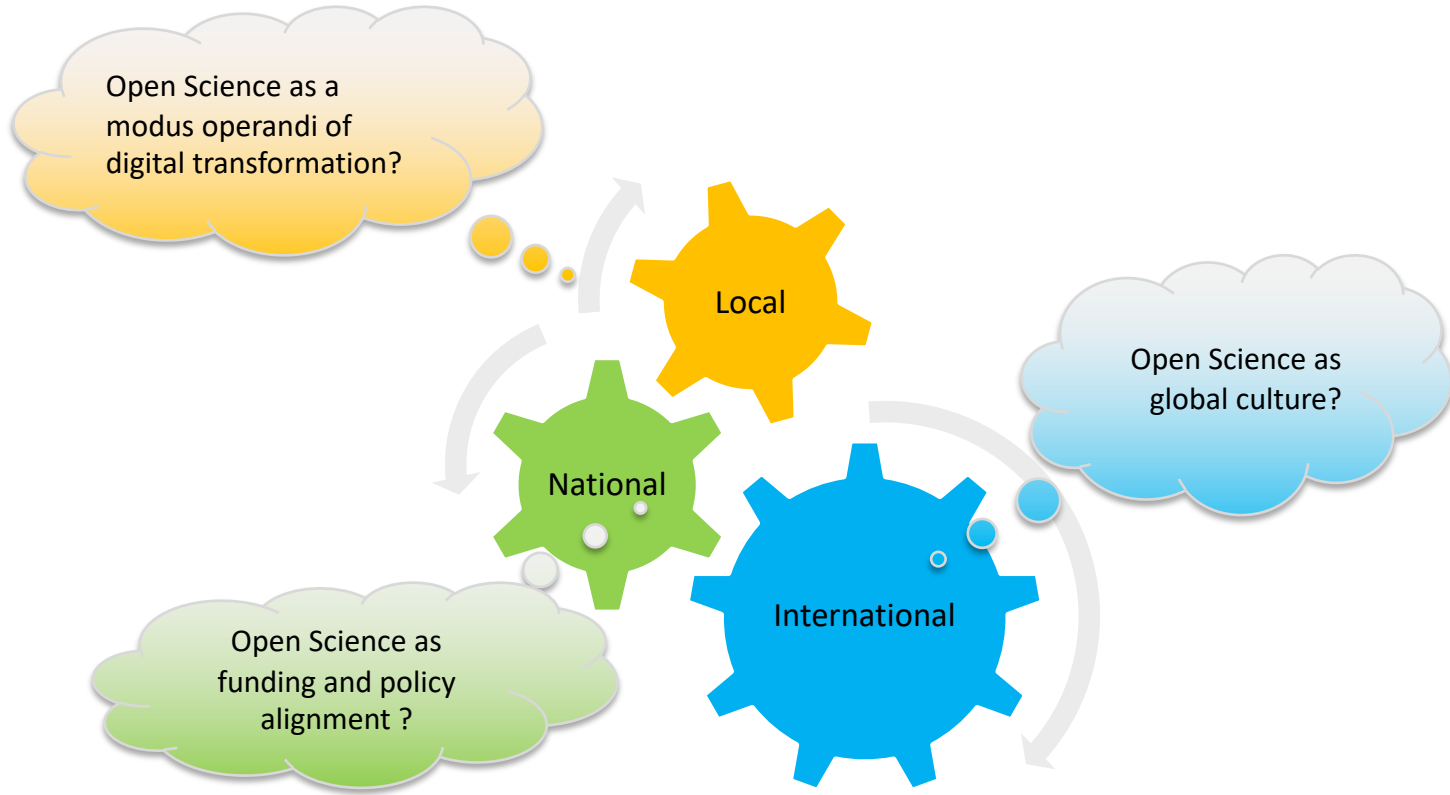


**Global**



**SUB**

# Open Science: Local-National-International



# Open Science: Local-National-International

