

Open Science

Sharing and implementing Open Science practices



AURORA



"Open Science aims to

- make scientific knowledge openly Ο available, accessible and reusable for everyone
- increase scientific collaborations 0 and sharing of information for the benefits of science and society
- open the processes of scientific 0 knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community"

Quality and integrity

Equity, diversity, inclusion

Collective benefit

Open Science =





Transparency

Reproducibility



Collective Benefit



Collaboration





∆UROR∆ Scope

FAIR & RESPONSIBLE RESEARCH

PUBLIC ENGAGEMENT & IMPACT

FAIR & OPEN EDUCATION

(Open Access) Publications

(FAIR) Data & Software

(Open) Research Process

(Open) Evaluation

(Open) Hardware

Valorisation

Science Communication

Citizen Science

(Open) Educational Resources

(Open) Educational Formats

(Open) Pedagogy

△UROR△ Framework



AURORA D6.1 – Open Science monitor



Original plan: Adding an Open Science function to the Aurora SDG Dashboard Deliverable beyond plan: Aurora Open Science Monitor, in collaboration with OpenAIRE



Aurora Open Science Monitor htt Deliverable 6.1 report htt

https://monitor.openaire.eu/dashboard/aurora https://zenodo.org/record/7784727

AURORA D6.2 – Open Science knowledge base

Survey on relevant resources, tools, policies and practices at Aurora universities

We recommend that Aurora universities:

- **Signal their commitment to Open Science** by incorporating its principles and practices in stimulating policies, implementation, dedicated funding and support.
- **Embrace transparent research evaluation practices** (e.g. DORA, CoARA) and avoid inappropriate use of metrics to incentivize good research practices.
- Foster grass-roots Open Science communities to make transparency normative.
- Integrate Open Science skills development in the institutional strategies for professional competence development and lifelong learning
- Encourage the creation and usage of infrastructures to make the entire research cycle open and transparent, and research outputs interoperable and reusable. These infrastructures should be based on open-source software; widely used in international scientific communities; able to record persistent identifiers like ORCIDs, DOIs, NBNs, etc.; and be compliant with open standards and protocols.

Aurora Open Science Knowledge Base Deliverable 6.2 report <u>https://zenodo.org/records/10225598</u>

AURORA D6.3 – Open Science training modules

Training modules for Aurora PhD candidates, focused on practical Open Science skills between Nov 2023-April 2024:

- Learning basic software and data skills (shell, git, intro to Python/ R) via the Carpentries
- o Learning advanced software and data skill training via Coderefinery
- o Using DMPonline/ Data Stewardship Wizard for data management planning
- o Using the Open Science Framework (OSF) for research management
- Using OpenAIRE tools, such as Amnesia for data anonymization and Zenodo as a publication platform



AURORA D6.4 – Open Science communities



6 of the 9 Aurora partners have started establishing their local Open Science Communities

Pilots with low-threshold communication platforms to connect to each other

"bottom-up learning communities of researchers and students for learning and sharing about Open Science"

Aurora Open Science Training Deliverable 6.4 report (forthcoming) https://osc-international.com/startyour-own-osc/

AURORA D6.4 – OSC Incubator programme with INOSC

"In this online incubator program, offered twice per year, we will assist up to 10 participants from around the globe in setting-up their local Open Science Community.

The incubator program is a 16-week online program, based on the OSC Starter Kit, and consists of six modules:

- 1. Community Identity
- 2. Community Engagement
- 3. Communication Strategy
- 4. Stakeholder Engagement
- 5. Governance and Sustainability
- 6. Open!



International Network of Open Science & Scholarship Communities



We are able to offer the OSC Incubator Program and free of charge, thanks to support from the EU funded projects AURORA RI and Skills4EOSC."

https://osc-international.com/startyour-own-osc/

AURORA D6.4 – Open Science Community Olomouc

Discord as platform for communication

- multiple channels dedicated to different topics
- supports various forms of communication, including text chat, voice calls, and live streams
- Provides features like role picking (e.g., PhD student, research supporter), gamification, or using bots





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AURORA Open Science in Aurora2030

