

Open Science Infrastructure Development Plan for [University Name]

Executive Summary

Provide a brief overview of the importance of Open Science and the objectives of the infrastructure development plan.

Introduction

Explain the concept of Open Science and its significance in fostering transparency, collaboration, and innovation in research.

Goals and Objectives

Outline the specific goals and objectives of the Open Science infrastructure development plan, such as:

- Promoting open access to research outputs
- Facilitating data sharing and reuse
- Fostering interdisciplinary collaboration
- Enhancing research reproducibility and transparency

Policy Framework

Detail the policies and guidelines that will govern Open Science practices within the university, including:

- Open access publication policy
- Data management and sharing policy
- Intellectual property rights policy
- Research evaluation and incentive structures

Infrastructure Components

1. Repository and Data Management Platform

- Establish a centralized repository for research publications, datasets, and other scholarly outputs.
- Implement a robust data management platform to facilitate data sharing, curation, and preservation.

2. Open Access Publishing Support

- Provide funding and resources to support open access publication fees for researchers.
- Partner with open access publishers and platforms to increase visibility of university research.

3. Research Data Infrastructure

- Develop tools and services for managing, storing, and sharing research data, ensuring compliance with FAIR principles (Findable, Accessible, Interoperable, Reusable).
- Integrate metadata standards and identifiers to enhance discoverability and citation of research data.

4. Collaboration and Networking Platforms

- Create online platforms and forums to facilitate collaboration among researchers, both within the university and with external partners.
- Foster interdisciplinary networks and communities of practice around Open Science.

Training and Capacity Building

- Offer training programs and workshops on Open Science principles, practices, and tools for researchers, students, and staff.
- Provide resources and support for researchers to adopt open and reproducible research practices.

Outreach and Community Engagement

- Establish the SCIENCE SHOP 2.0.
- Engage with stakeholders, including faculty, students, funding agencies, and industry partners, to raise awareness about Open Science and its benefits.
- Organize seminars, conferences, and public events to promote dialogue and exchange of ideas on Open Science topics.

Evaluation and Monitoring

- Establish metrics and indicators to evaluate the effectiveness and impact of the Open Science infrastructure.
- Conduct regular assessments and reviews to identify areas for improvement and optimization.

Budget and Resource Allocation

- Allocate budgetary resources for implementing and maintaining the Open Science infrastructure, including personnel, technology, and training.
- Seek external funding opportunities and partnerships to support long-term sustainability.

Timeline and Implementation Plan

- Develop a timeline with key milestones and deliverables for each phase of the infrastructure development plan.
- Assign responsibilities and designate project leads for overseeing implementation tasks.

Conclusion

Summarize the key points of the Open Science infrastructure development plan and emphasize the university's commitment to fostering openness, collaboration, and innovation in research.

References

Include references to relevant literature, policies, and guidelines on Open Science.

Annex. UNESCO Open Science Toolkit. Bolstering Open Science Infrastructure for All (2022)