From Scientific Information Program
Evolution towards Open Science

Dr Patrick Furrer, Scientific Information Program Coordinator
Strategy 2021-2024: From Scientific Information to Open Science

---

Agenda

01 Program «Scientific Information» 2017-2020: Current situation

02 Open Science National Strategy

03 Open Science Action Plan

04 Next Steps

---

Dr Patrick Furrer, 24.10.2019
Program «Scientific Information »
2017-2020

Current situation
Scientific Information Program 2017-2020

Key objectives:
1. Create a network of services linking libraries, the IT community and scientific computing
2. Create a coordination structure (COSI) for facilitating the transition to sustainable services

2013–2016 = CHF 45 mio.
2017-2020 = CHF 30 mio.
14 projects
9 pilot services
11 running services

Project related federal grants:
50% matching funds by HEI

Dr Patrick Furrer, 24.10.2019
P5 - A multifaceted ecosystem
P5 – A selection of projects dealing with Open Science

Scientific Information Program

Projects
- SwissMoocs
- SONAR
- SLSP
- Materials Cloud
- Selvedas
- histHub

Pilot Services
- Data-Life-Cycle Mgmt.
- Swiss edu-ID
- EnhanceR
- NIE-INE

Running Services
- Coop. Storage Library
- swissbib
- National Licences
- SWITCHengines
- Train2Dacar
- e-codices

Legend
- Open Science Inside

Dr Patrick Furrer, 24.10.2019
Open Access Action Plan – Latest news

- Open Access Alliance created on October 7, 2019 (Governance document published)

- Negotiations of Big Deals
  - Letter of information transmitted to HEI mandatories
  - HEU consortium being transferred to SLSP 1.1.2020

- OA Policy Template (currently in consultation in the swissuniversities chambers)

- OA Monitoring – Project in implementation by SLiNER

- Reintegration of the OA Activities in the Open Science Action Plan
  - Rebalancing of budgeting towards a 50/50 share
Open Science National Strategy
Why Open Science

Why have trust in science? because it works.

But...

IS THERE A REPRODUCIBILITY CRISIS?

- 52% Yes, a significant crisis
- 38% Yes, a slight crisis
- 3% No, there is no crisis
- 7% Don't know

1,576 researchers surveyed
What is the issue then?

Figure 10 - Evaluation of academic activities for research careers
Based on survey question 8, ranking question (cf. Annex 1). Number of respondents: 194-195/197

- Metrics measuring research output based on number of publications and citations
  - Don't know: 14
  - Of little importance: 23
  - Important: 53

- Qualitative, peer-review assessment
  - Don't know: 17
  - Of little importance: 26
  - Important: 48

- Research impact and knowledge transfer indicators
  - Don't know: 19
  - Of little importance: 33
  - Important: 30

- Metrics measuring collaborations within academia based on co-authorship
  - Don't know: 25
  - Of little importance: 30
  - Important: 15

- Open Science and Open Access indicators measuring the open accessibility of research outcomes and data
  - Don't know: 24
  - Of little importance: 23
  - Important: 20

- Altmetrics measuring the societal outreach of journal publications, books, reports, data and other non-traditional publications based on downloads, tweets, news mentions, etc.
  - Don't know: 31
  - Of little importance: 23
  - Important: 19

- Metrics measuring academic attention and uptake based on number of views and downloads
  - Don't know: 27
  - Of little importance: 24
  - Important: 19

Dr Patrick Furrer, 24.10.2019
From Scientific Information to Open Science Program

2017-2020
Development of service network:
Program P-5

2013-2016
Consolidation of strengths:
Program P-2

Up to 2013
Predecessor programs

Citizen Science
Open Education
Open Innovation
Open Access
Open Data

2021-2024
Open Science
Open Science National Strategy 2021-2028

4 Objectives:

- Improving shareability and interpretability
- Leveraging decentralization and diversity
- Strengthening the dialogue between science and the society
- Adoption of Openness and FAIRness

Link to document (currently version 2)
## Open Science National Strategy 2021-2028

<table>
<thead>
<tr>
<th>Fields of Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Open Access</strong>: communication and awareness raising, setting up of shared services and infrastructures, joint international participations, alternative forms of publications, national monitoring, negotiations with publishers</td>
</tr>
<tr>
<td><strong>Research Assessment</strong></td>
</tr>
<tr>
<td><strong>FAIR Data &amp; Services</strong>: This field of activity will develop HEI’s and scientific communities capacities with an interdisciplinary perspective: communication and awareness-raising, skills development and training, initiating shared services, FAIR compliance, joint international participations</td>
</tr>
<tr>
<td><strong>Exploratory and Integrative Projects</strong>: Open Innovation (Co-funding by external partners), Citizen Science and Open Educational Resources</td>
</tr>
<tr>
<td><strong>Open Research Data Infrastructures</strong>: developing a sustainable funding (therefore not on a project-based funding source) for existing and emerging national Open Research Data Infrastructures</td>
</tr>
</tbody>
</table>

[Link to document (currently version 2)](http://example.com)
The 2021-2024 coordination challenge in Open Science

- swissuniversities (Delegation Open Science): leadership for the National Strategy and Action Plan on Open Science (and Open Access)
- SNSF Funding of DIS (Digital Infrastructures and Services)
- A+ managing SPHN (Swiss Personalized Health Network), learned societies journals, citizen science
- SDSC National Mandate for an Open Science (DataScience) Research Program

But …
A participative approach towards OS Strategy implementation
Open Science National Cooperation Portal

Today (P5)

- Competitive Calls
- Peer-Review Evaluation
- Very discipline specific solutions
- Not Invented Here Syndrom

Tomorrow (OS Program)

- Open Proposal Preparation
- Open Peer-Review
- Favoring cross- or interdisciplinary solutions
- Synergy and economy of scale, avoiding duplication of efforts

a strong community of open science services providers and users, including the scientific community and the society in trusting science
Open Science Action Plan

Mapping of first project ideas

Analysis provided by Anouk Santos, Paul van Rijen, Luc Mottin, Patrick Ruch, HES-SO // Haute école de gestion de Genève
Questionnaire participation
First survey sept 2019: n=20
Activity field coverage

- Open Research Data e-Infrastructures: 20%
- Exploratory and Integrative Projects: 25%
- FAIR Data & Services: 40%
- Open Access: 15%
Next Steps
Important steps for you as potential contributors to the OS Program

• From now on: [open consultation on the Action Plan]

• Q2 2020: Launch of the National OS Portal

• Q3 2020: First Calls for the OS Program

• Q1 2021: OS Program first projects starting
Coordination Team

Patrick Furrer / 80%
Coordinateur
patrick.furrer@swissuniversities.ch
T. +41 (0)31 335 07 81

Gabi Schneider / 80%
Cheffe de projet Open Access
gabi.schneider@swissuniversities.ch
T +41 31 335 07 83

Aude Dieudé / 100%
Portfolio Manager
aude.dieude@swissuniversities.ch
T. +41 (0)31 335 07 84

Anisa Graf / 80%
Spécialiste en communication
anisa.graf@swissuniversities.ch
T +41 31 335 07 86

Sari Amstutz / 80%
Assistante scientifique
sari.amstutz@swissuniversities.ch
T +41 31 335 07 63

Service Management Team @ HSR
Manuel Elgoriagga (Service Manager)
Urs Zimmermann (Business Management)
Monika Ruggli (Legal Expert)
Evrim Bakir (Service On-boarding @ SWITCH)
servicemanagement@swissuniversities.ch