



Data Champions initiative at EPFL

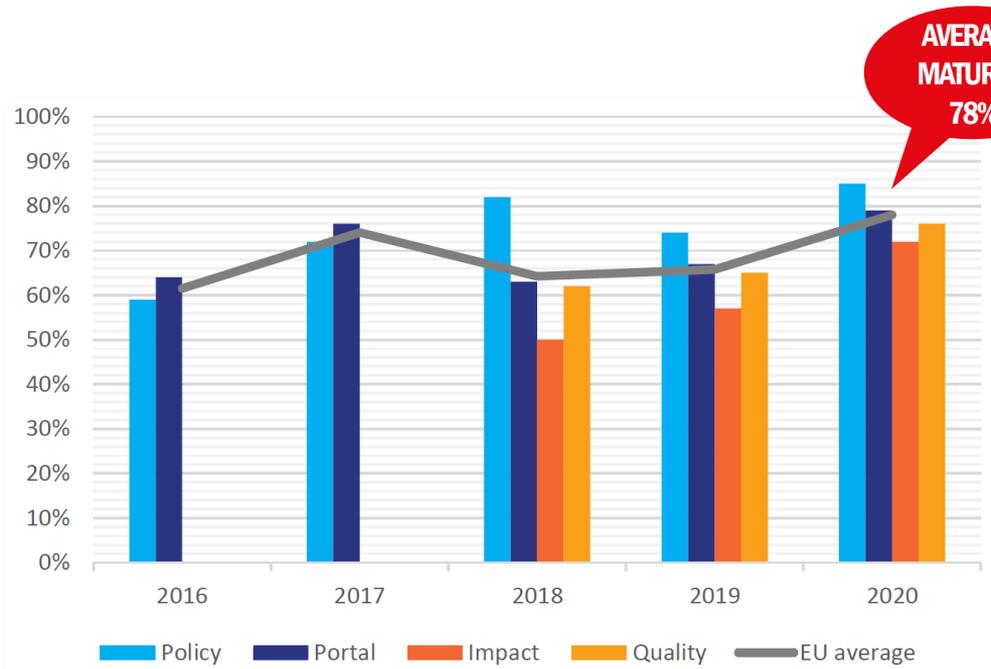
Implementing
FAIR practices

Francesco Varrato

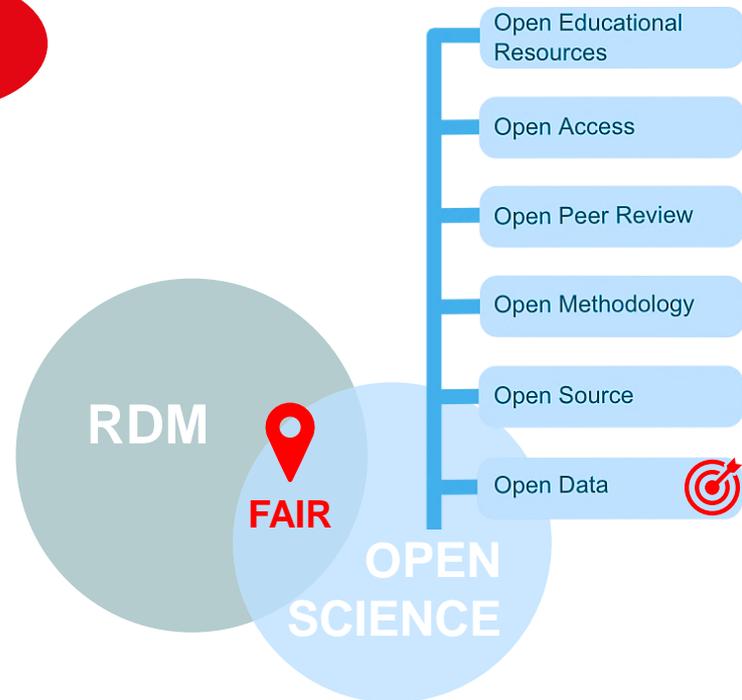
Research Data
EPFL Library Team

RDM → FAIR → Open Data?

Good practices already exist



EU27 Open Data Maturity Report 2020



RDM directions

Top → Down approach

Institutional data policies

- [MIT](#)
- [UNIGE](#)
- [TU Delft](#)
- [University of Oxford](#)
- [University of Edinburgh](#)
- [University of Cambridge](#)
- [Humboldt-Universität zu Berlin](#)
- ...

General data guidelines

- SNSF [Open Research Data policies](#)
- EC [Data Management manual](#) for Horizon 2020
- DLCM Research Data Management [Policy Template](#)
- ...

@EPFL

- no official Data Policy
- Open Science Scientific Committee



No unique approach



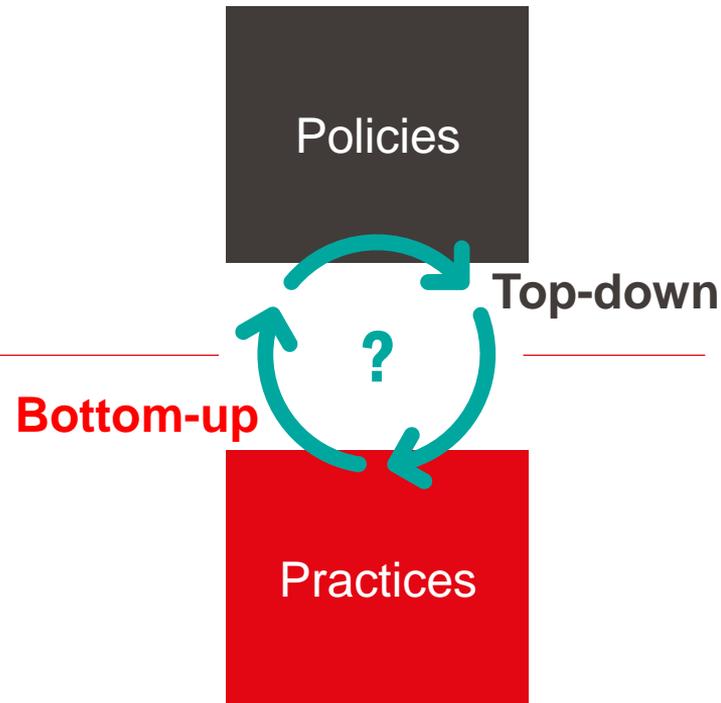
STRUCTURE

- 2 Colleges
- 5 Schools
- > 15 interdisciplinary centers
- 26 Institutes
- > 370 laboratories & research groups



PEOPLE

- > 9,500 students
- > 2,200 PhD students
- > 3,500 staff
- > 350 professors



What / Who

- **Interdisciplinary** community
- Data practices **advocates**
- **Voluntary** researchers & staff

Shared principles

- **FAIR** data principles
- **Passion** for data ♥

Mission(s)

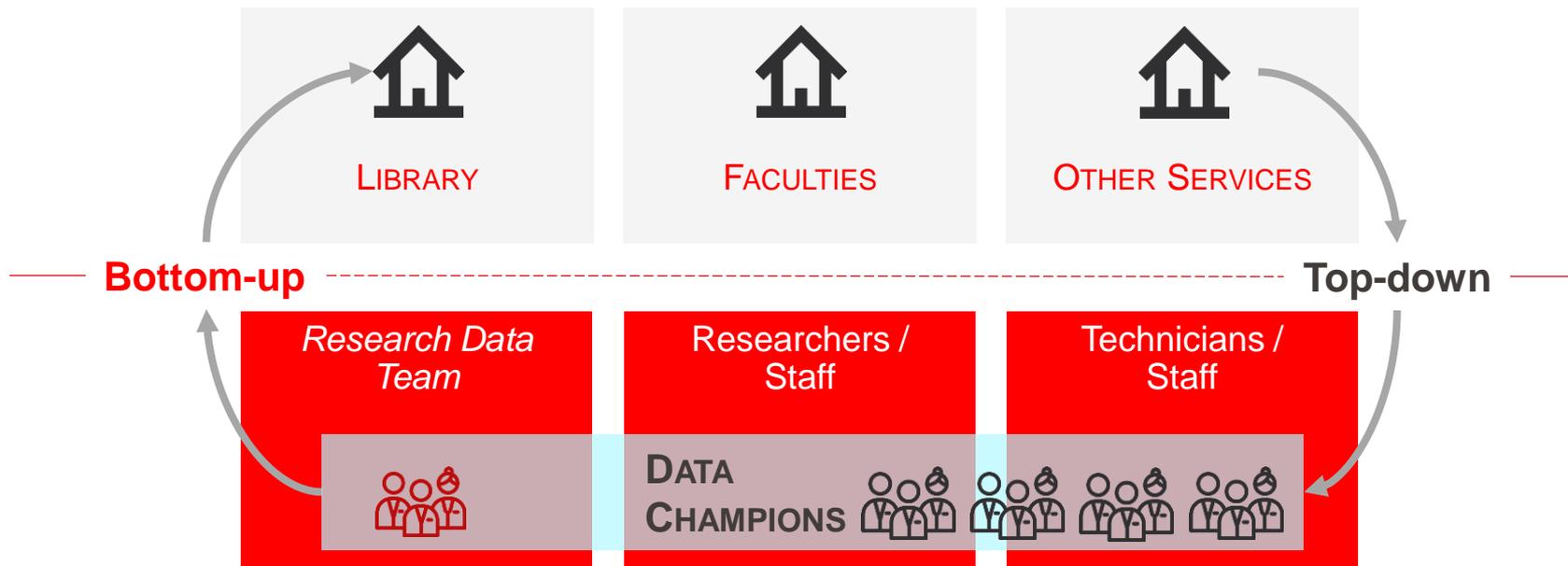
- **Advise** research community
- **Advocate** FAIR data principles
- **Promote** good data mgmt

Platform(s)

- Webpage (Library + VPR)
- Google Drive + GitHub
- Email + Slack + LinkedIn

No real barriers

Synergy with central services



- **Library** provides organization & support
- **Library** maintains web presence & comm.

Why join the DC community?

Bottom → Up approach

To **share** my skills and **gain** new ideas

data sharing is essential to combat the reproducibility crisis

I am passionate about rigorous methods and the inductive / abductive process of **analyzing qualitative data**

Improve on data **sorting, traceability, archiving** and **sharing** at EPFL

Wish to help / **encourage** others in the community for a **cultural shift**

Since **similar challenges** can be expected to reoccur in different labs, it seems natural and beneficial to build a community and **share experience**

I am very much committed to **revolutionize** the **scientific community** to become truly collective

I think it is important to **share information** about data management within the School, and **train each other**

I would love to explore **new data formats, analysis techniques, software, best practices**

I want to **share** my experiences of using big and **open data** in a discipline that is rather conservative

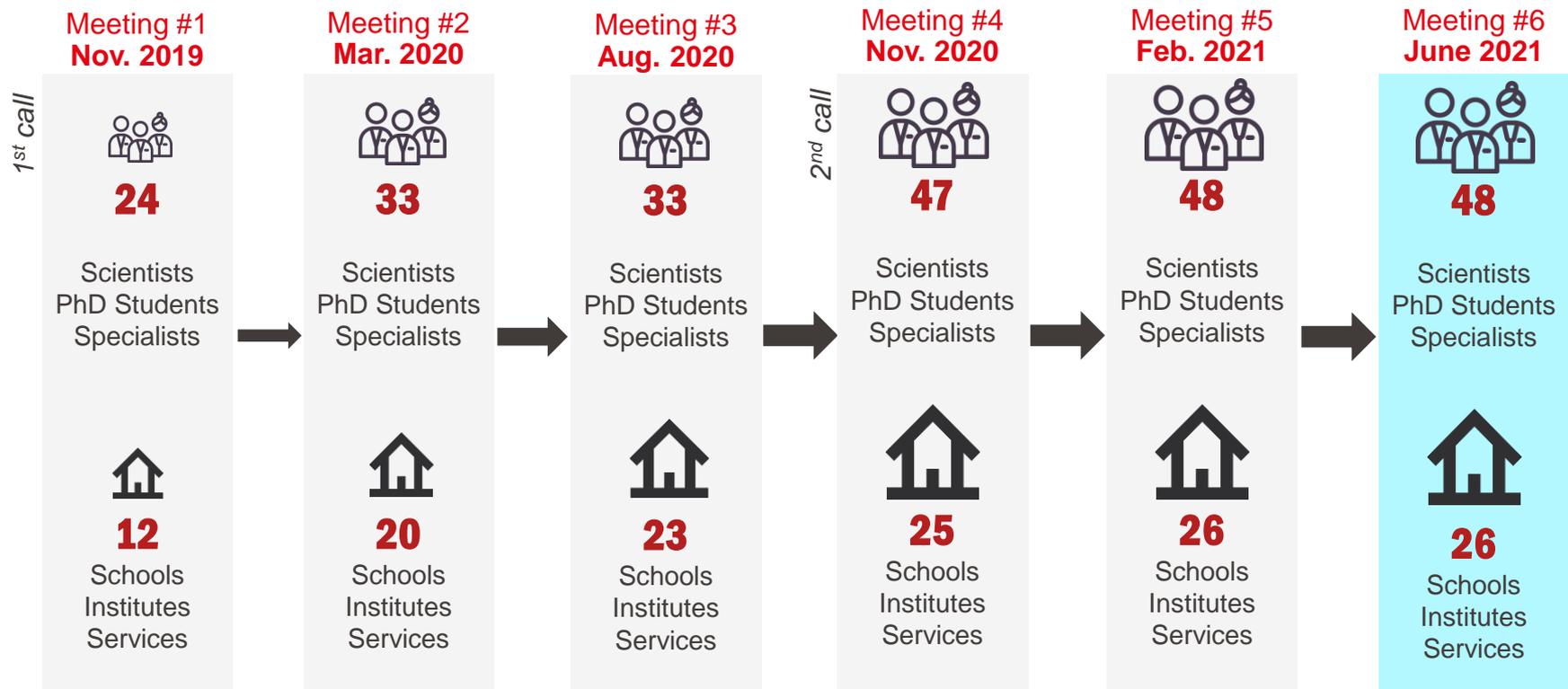
I am big advocate of **data sharing** and effective data visualization as I believe it makes **science better** and **more accessible**

keen to **help people** understanding the **legal framework**

This would be both useful for my **everyday work** in the lab and maybe even **my future**

I would like to **help** fellow researchers with **managing, acquiring, producing and analyzing** their data

Some numbers



+ monthly, more informal, shorter *DCBreaks*

Meetings' themes

Sharing expertise, tools, views

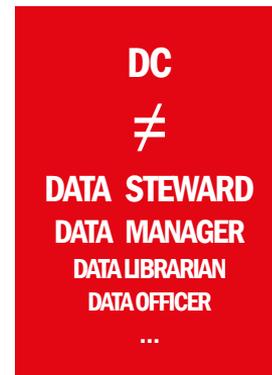


Other examples

Sharing expertise, tools, views

The DC community actively collaborated to

- [Data Q&A](#) on webpage
- Library's training "[The power of metadata](#)" + RDM Credited Course for Chem. PhDs
- [GitHub](#) repo
- Collaborative documents (Data Policy, EPFL DMP, Data Tools & Platforms, ...)
- Help others about
 - Open education platform
 - Publishing reproducible code
 - Python pickle files for data preservation
 - Tips for Data security
 - DMP template for new federal institute
 - ...



A DCs community

Pros & Cons

INSTITUTION



- Leverage on **motivated** persons
- Direct **influence** on practices
- Fastlane to **support** scholars



- Need (small) dedicated **HR**
- Difficult **measure** FAIR impact

DATA CHAMPIONS

- **Networking** to collaborations
- Improve **research**
- Peer **learning**
- **Discover** tools
- Boost **CVs**

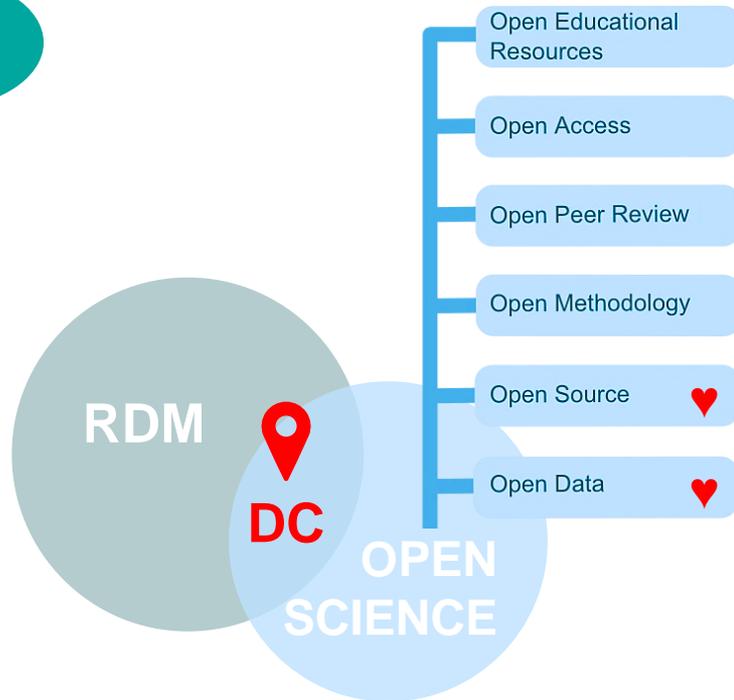
- Need some (little) **availability**
- Need **visibility**

RDM → FAIR → Open Data!

Good practices already exist



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The background of the slide is a nighttime photograph of a modern building with a curved glass facade. The interior lights are visible through the glass, and the building is illuminated with a blue light. The sky is dark.

go.epfl.ch/datachampions

**Thank
you!**

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