"First steps towards the inclusion of data sharing in the researchers' evaluation scheme at the IIT"

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The basis: awareness and transparency

• Be clear with researchers about the importance of organising research outputs, aside from evaluation aspects

• Be clear with researchers about which aspects/metrics are used in the evaluation processes

We need actual tools, not just policies
Current situation of the evaluation at IIT

Our researchers are currently evaluated using:

- **Staff** of the research group
- Publications and **bibliometrics**
- **Budget** received/ **Grants** won
- **Patent** applications

A tool allows researchers to see and manage in every moment their info.
Current situation of the evaluation at IIT

It has been a long process:

• Persuade researchers to use yet another tool!
• Make researchers feel responsible for the information they check and add to the tool
• Ease of use and build trust
• Increase interoperability among institutional and external systems not to miss any information

At IIT, we developed SCIENTILLA: a Current Research Information System (CRIS)
Current situation of the evaluation at IIT

[https://www.scientilla.it/]
On our way to add data sharing to the evaluation at IIT

- Selecting a data sharing tool: Dataverse [https://dataverse.org/]
- Dataverse will be rolled out at our institute next month!
Dataverse as a tool suitable for us

- We involved ten percent of our research groups in a **pilot project**
- We got **detailed feedback** from the researchers
- We scouted for other sharing tools **to make comparisons with**
Important features of Dataverse

• **Open source**: customization is possible to fit our needs

• Committed to **FAIR principles**!

• Used by **research communities worldwide** (68 installations up to now)

• **Interoperability** with our IIT systems

• **Metadata support** quite effective
At the same time: raising awareness

- **Strong campaigning** for proper Research Data Management (among researchers and management)

- **RDM seminars** and **success stories**

- Intranet pages and instructions about **Open Science and Open Data**

Benefits for researchers have to be clearly stated!
At the same time: raising awareness

Research Data Management

During your daily practice, you happen to manage a lot of different kinds of research data, i.e., data that are collected, observed, or created not only experimental measurements, but also methodologies, statistics, models, algorithms, source codes, etc.

It is of utmost importance that research data are preserved both during the study (i.e., active data) and upon completion of the research organized by defining useful folder- and file-naming conventions, and thoroughly documented by adding the necessary "metadata".

In the RDM project we are currently working on institutional guidelines & solutions for research data storage, backup, organization, and...

Planning your research

Planning in advance how you'll manage research data during your projects is increasingly required by research funders, including to specify how and when data managing your data more efficiently since their creation or collection, your research will be more reliable and reproducible. Moreover, you will save time in the...

An increasing number of research funders ask researchers to state how they plan to manage and share research data in their project proposals. When the project is granted, funders may ask you to be compulsory for all funded projects adhering to the H2020 Open Research Data Pilot and it will likely be compulsory for all...

Any research project will gain from the development of a DMP to understand how to store, preserve, and publish all...
The long road to evaluating research data sharing

• Tools in place: Dataverse will communicate with Scientilla!

• Direct and visible connections from research data to publications

• Researchers will be able to tag which publications made use of a given dataset, maintaining and verifying the information

• Seeing datasets as research output closely linked to publications will ease the process of considering them part of the evaluation.
What we need to understand more and more

• Which **metrics are available** for measuring data sharing?  
  E.g., random ideas: number of downloads, Data Management Plans quality, level of FAIRification, quality of publications, sharing the same datasets, ... )

• **“Make Data Count”** is a project to *collect and standardize metrics* on data use, especially views, downloads, and citations

• Dataverse is able to integrate *Make Data Count*

• Quantitative and qualitative points of view: it’s always a **mix**!

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**Metrics, metrics, metrics, if possible at all!**
Conclusions

• Importance of having actual tools enabling evaluation

• Importance of transparency, building trust, listening to feedback

• Evaluation and rewarding should be the last step of a long process

• That long process will anyway bring many benefits to the researchers
Let’s discuss
LINKS

• “The challenge of measuring open research data” Elizabeth Gadd, Gareeth Cole

• Knowledge Exchange Openness Profile, Fiona Murphy DPhil, MMC consulting LTD Phill Jones PhD, Double L Digital LTD

• https://makedatacount.org/ : Responsible, meaningful approaches to research data assessment.

• https://scientilla.it/ : SCIENTILLA, spark your research!

• https://dataverse.org/ : The Dataverse Project