



Developing crediting/rewarding mechanisms to foster resources (data and materials) sharing in Research: towards recommendations

First draft of recommendations from the SHARC biodiversity research community

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First proposals must be completed

Reminder - we expect:

To get feedback and input from other biodiversity research communities

To network with relevant stakeholders involved in research assessment and publication

Background paper and recommendations will be submitted for community review... and biodiversity case study can be completed by your point of view !

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biodiversity case study can be completed by your point of view !

with some questions to guide you

and some initial proposals for recommendations

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biodiversity case study can be completed by your point of view !

A shared finding is that

Readiness to share data differs between disciplines

To efficiently provide timely information requires from researchers not only to continue their practice (collection of new data) but also to focus on its reusability

(Hampton et al., 2013)

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Biodiversity community question : Is there an overview of rewarding-related initiatives or tools available in biodiversity communities ? -> not really.

What is actually visible for us:

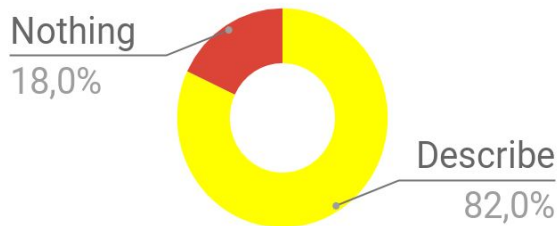
In the biodiversity community, a survey was conducted at the national level by the French Foundation for Research in Biodiversity in 2015 to describe the national landscape of long-term research facilities

-> 40 devices responded

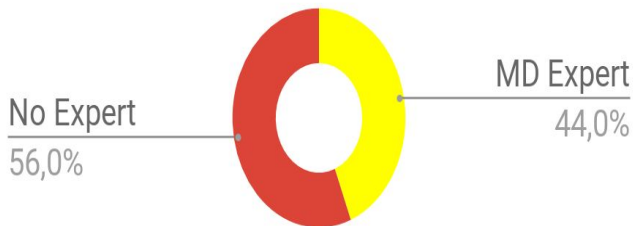
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Biodiversity community question : Is there an overview of rewarding-related initiatives or tools available in biodiversity communities ?

Describing data 82%



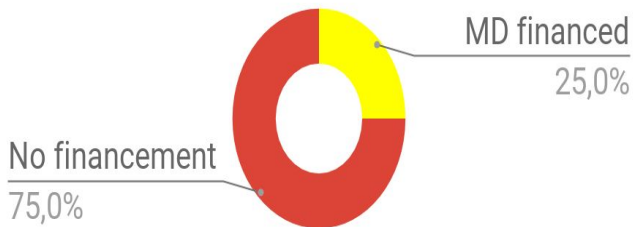
MD Expert 44%



MD Standard 67%



MD Financement 25%



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Biodiversity community question : Is there an overview of rewarding-related initiatives or tools available in biodiversity communities ?

Result sélection:

Time investment is the main brake to data sharing (60%).

The age of the respondents is also influencing data sharing willingness : searchers younger than 40 years were less keen to share their data without restriction. (!?)

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Biodiversity community question : Are there any successful initiatives/tools for data sharing rewarding specifically implemented

What is visible actually for us:

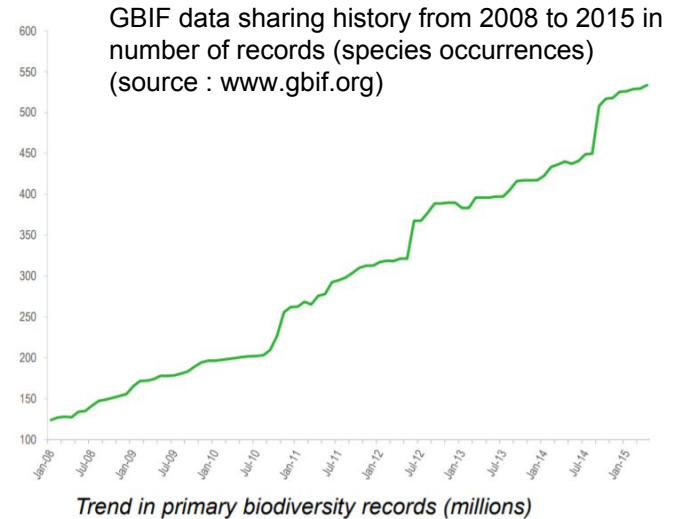
- Datapapers
 - Data Management Plan (DMP) (40% of use in the FRB survey, 88% because it is usefull, and for 13% because it is imposed)
 - development of Essential Biodiversity Variables (EBVs), proposed by GEO BON (Group on Earth Observation)
 - standards like EML
- **What else?**



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Biodiversity community question : Are there any successful initiatives/tools for data sharing rewarding specifically implemented : **GBIF example**

- **it creates interoperable systems, forming a global network of scientific databases on biodiversity.**
- **access to 982,976,980 occurrence records from 38,372 Datasets**
- **But ... only 1,156 publishing institutions**



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Possible recommendations: Infrastructures to draw from?

What is discussed actually between us:

A stronger link can be built through regional observatories between research centers, long-term monitorings, civil society and stakeholders....

...What else?



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Possible recommendations: Relevant info from case-studies: for the biodiversity community:

What is discussed actually between us:

- a rewarding system centered on data service quality : estimate of the “service rendered” by a dataset
- a discussion on a code of ethics (to preserve and protect the data, encourage the initiation and continuation of long-term studies, and meet the requirements of the whole scientific community)

.... Wh  ?

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Possible recommendations: Relevant info from case-studies: for the biodiversity community:

What is discussed actually between us:

- a true strategy to include actors of data into those mechanisms and thinking
- any access and organization of information via portals that value the producer skills more than the data itself
- More interaction with contributors is needed concerning maintenance of data / its usability/versioning, managing the availability of skills to provide the most usable data



.... What else?

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Possible recommendations: from case-studies for the biodiversity community:

What is discussed actually between us:

An effort concerning the governance and animation of networks

Cost of data sharing has to be supported and accompanied

Traceability of data producers

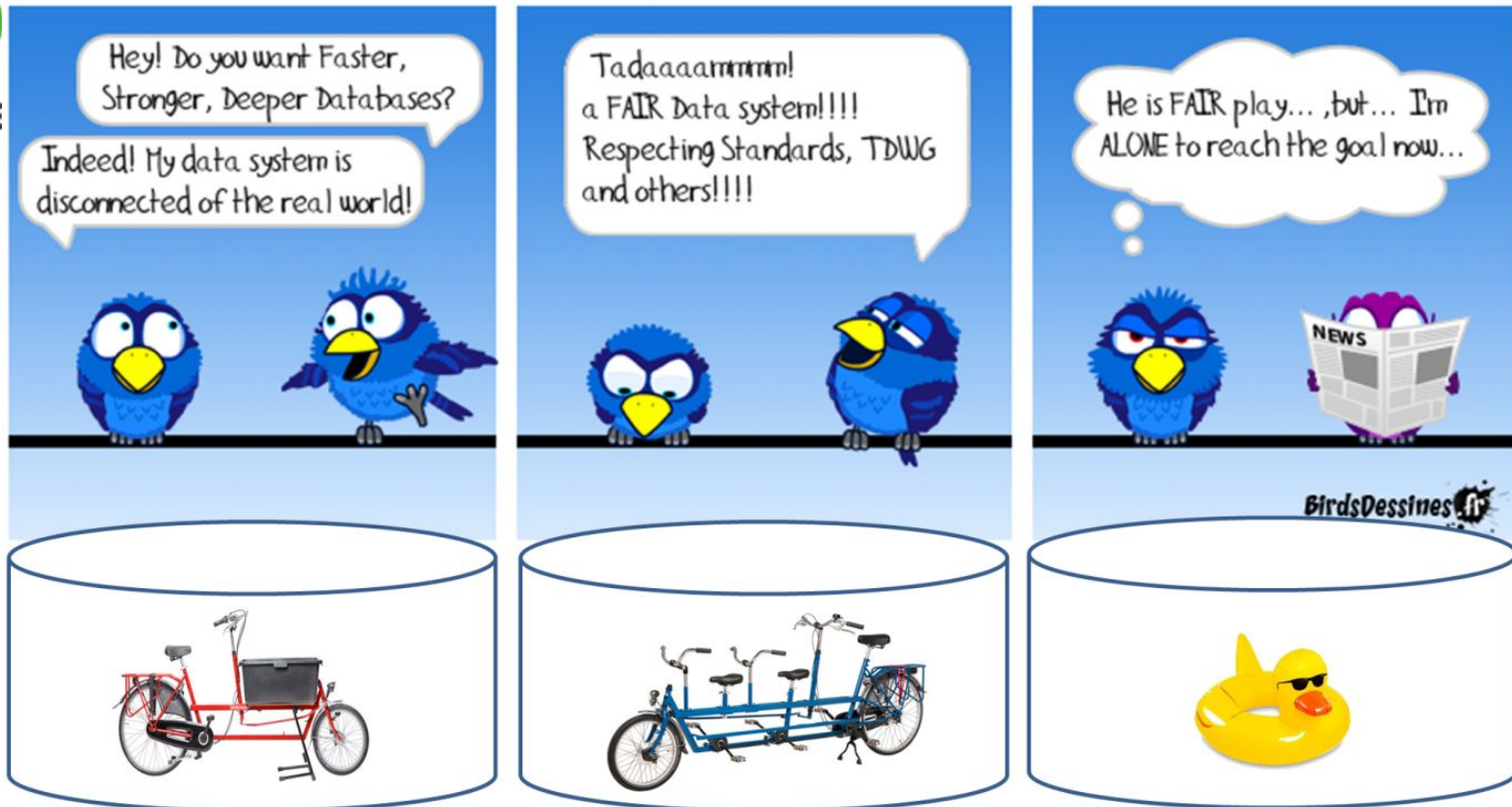
Working on standards and interoperational processes and demonstrating their effectiveness

AND ... prerequisites for data sharing should not be too complex

...What else?



We need man power for FAIR!



Cycle pictures from : http://cargocycling.org/category/riding_type/family-cycling