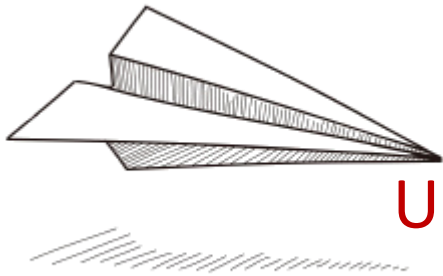


Data Literacy for a

MINDFULmanagement




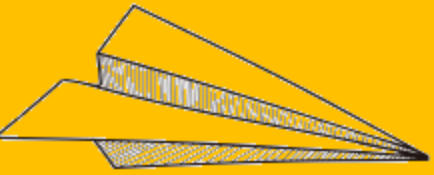
Elena Collina & Rita Patregnani

UNIVERSITA' DI BOLOGNA





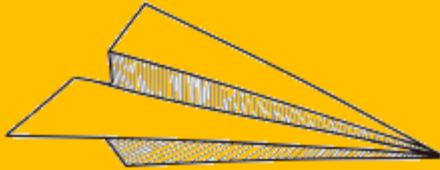
Research Questions



The survey consists of 24 questions of which 5 are demographic: role, age, gender, subject area, years of experience.

The further 19 questions try to investigate these behaviors:

- data file used for the research;
- data volume;
- obtaining data procedures;
- obtaining methods from outside sources;
- type of data produced by their own research team;
- their own data archiving;
- possible collaborations and data sharing and any doubts or concerns with respect to the sharing of information with others;
- targeted training needs.



“Unibo Background



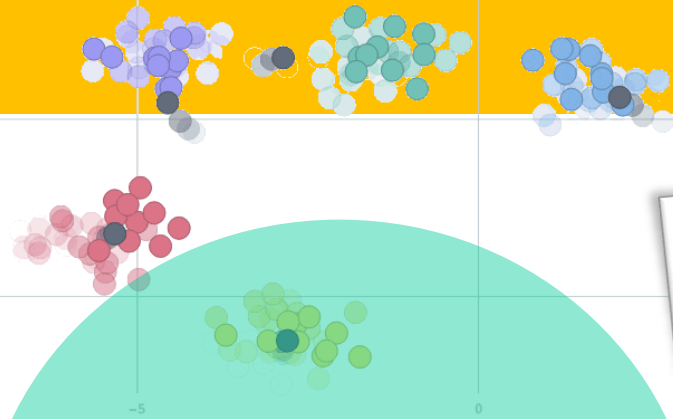
The Multimedia Center of the University of Bologna offers scholars the methodological and technological support needed to secure the digital resources associated with research.

It offers assistance to research groups who wish to participate in the European Horizons 2020 calls for the drafting of the Data Management Plan, long-term preservation and data management, in accordance with official requirements.

The Center currently supports Research Area's activities free of charge when submitting funding applications. The services involved in the manipulation, organization, management and preservation of data produced by research projects are subject to a charge.

<http://www.crrmm.unibo.it/attivita>

Demographic info



TARGET
2777 people
480 records 17.3%
336 completed 12%

AGE

55% 36-55
23% 56-65
20% 18-35
2% undisclosed

EXPERIENCE


65% > 20
34% 11-20
1% 5-10

36%



60%

Demographic info



Professors 58%
Research St.
40%
Scholars 2%

Natural Sci. 24%
Social Sci. 24%
Humanities 19%
Engin. and Techn. 15%
Medical & H. Sci. 10%
Agricultural Sci. 8%
Other 1%

Data Volume

USED DATA

55% GB
35% MB
7% TB
3% unknown

PRODUCED DATA

43% GB
50% MB
4% TB
3% unknown

Open Access

I am familiar with the open access requirements

50% agree
29% nn
21% disagree

I'm comfortable and willing to share my research data with others

65% agree
24% nn
11% disagree

Does your university actively encourage you to share data on open access mode?

52% uncertain
30% yes
18% no

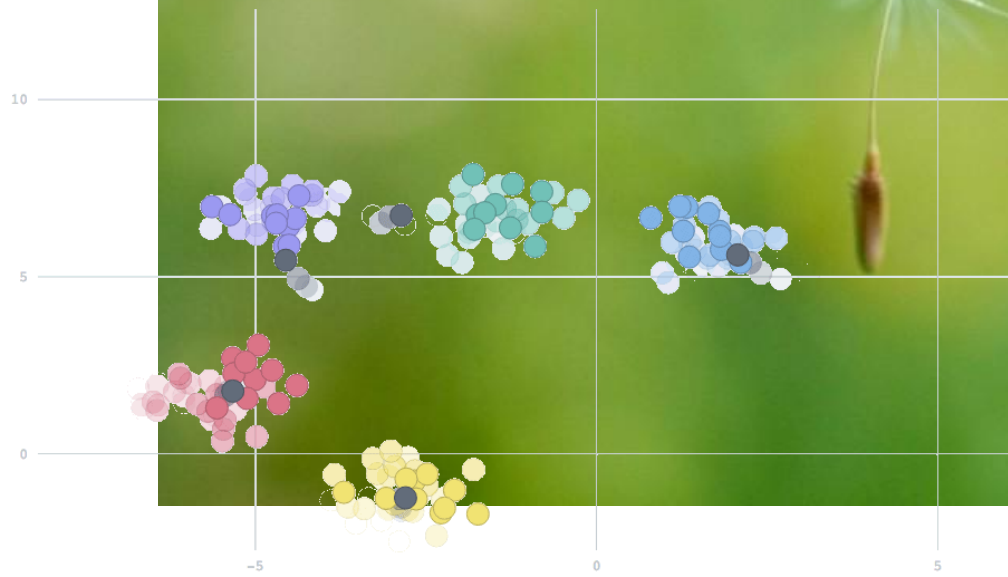
Open Access

I foresee no problems with sharing my research data

55% agree
25% nn
20% disagree

I perceive data ethics could be an issue when research data is shared with others

44% agree
33% nn
23% disagree



Data Management Plan

Does your institution have a Data Management Plan?

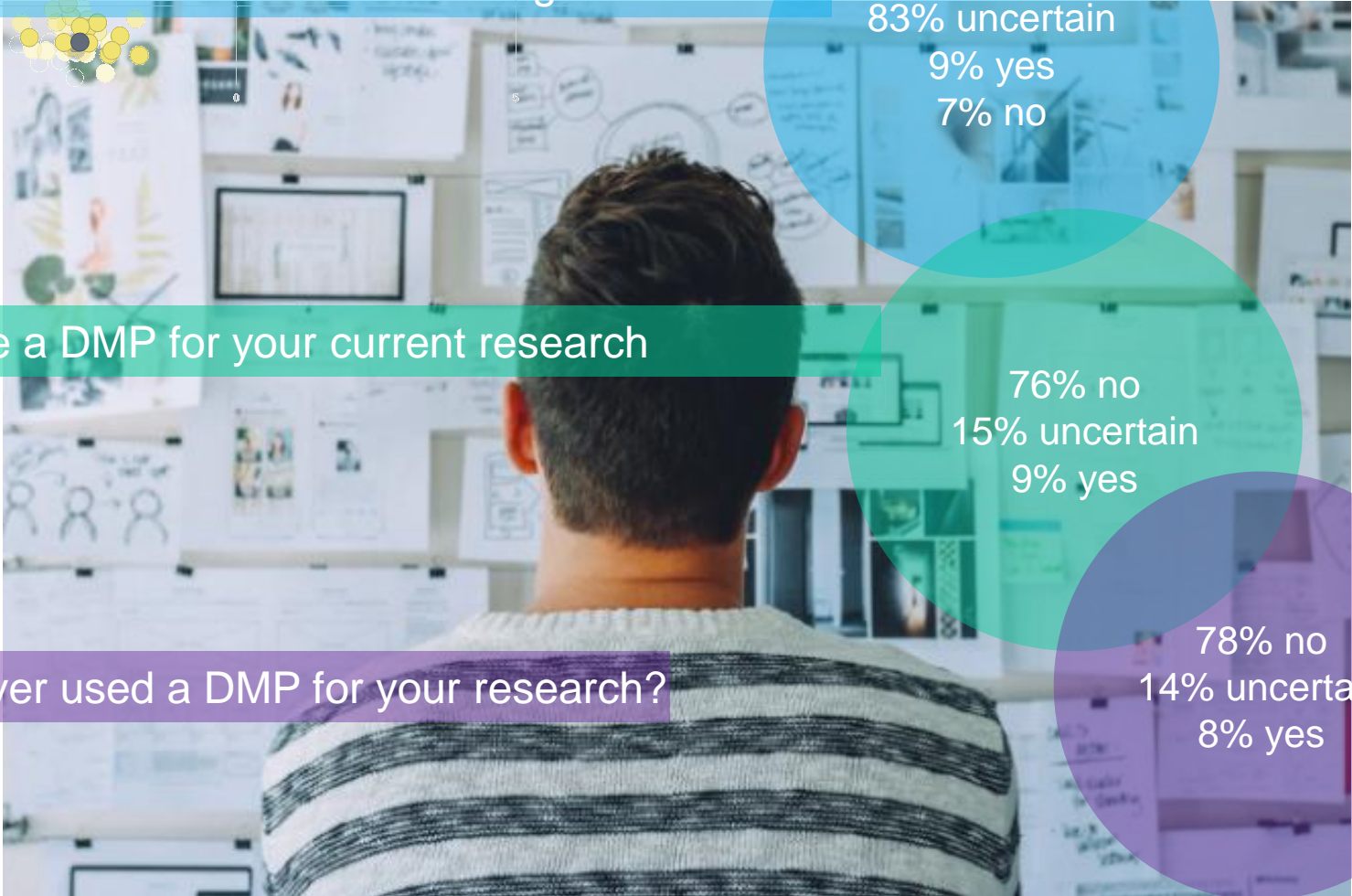
83% uncertain
9% yes
7% no

Do you have a DMP for your current research

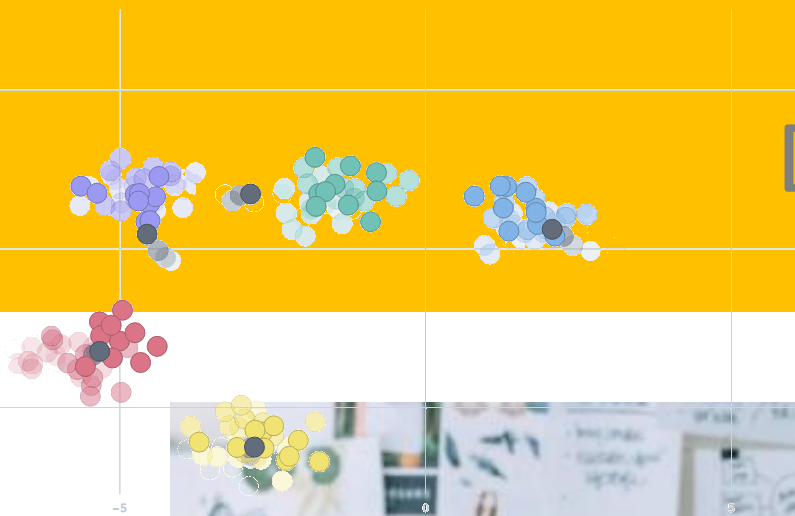
76% no
15% uncertain
9% yes

Have you ever used a DMP for your research?

78% no
14% uncertain
8% yes



Data Management Plan



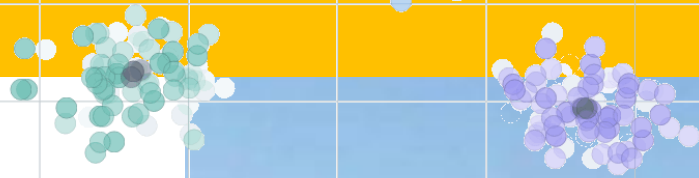
Do you think a DMP actually helps researchers in managing research data?

74% uncertain
19% yes
7% no

Every university should have a Data Management Plan

60% nn
36% agree
4% no

Data Standardization



Universities should recommend and use a standard file naming system

Every university should have a prescribed metadata set for uploading data into a repository

43% agree
42% nn
15% disagree

53% nn
40% agree
7% disagree

The Nation

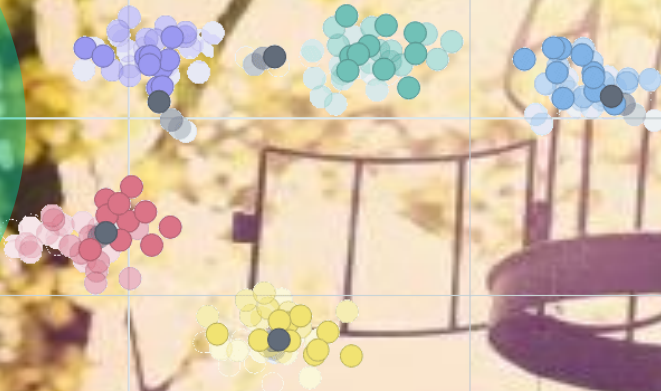
Data Storage

In your opinion who should pay for storage and public access to the data set that you created?

76% your university
30% the funding body
25% your team
20% a national body
3% other

I would like to store my research datasets beyond the lifetime of the project

79% agree
13% disagree
8% nn



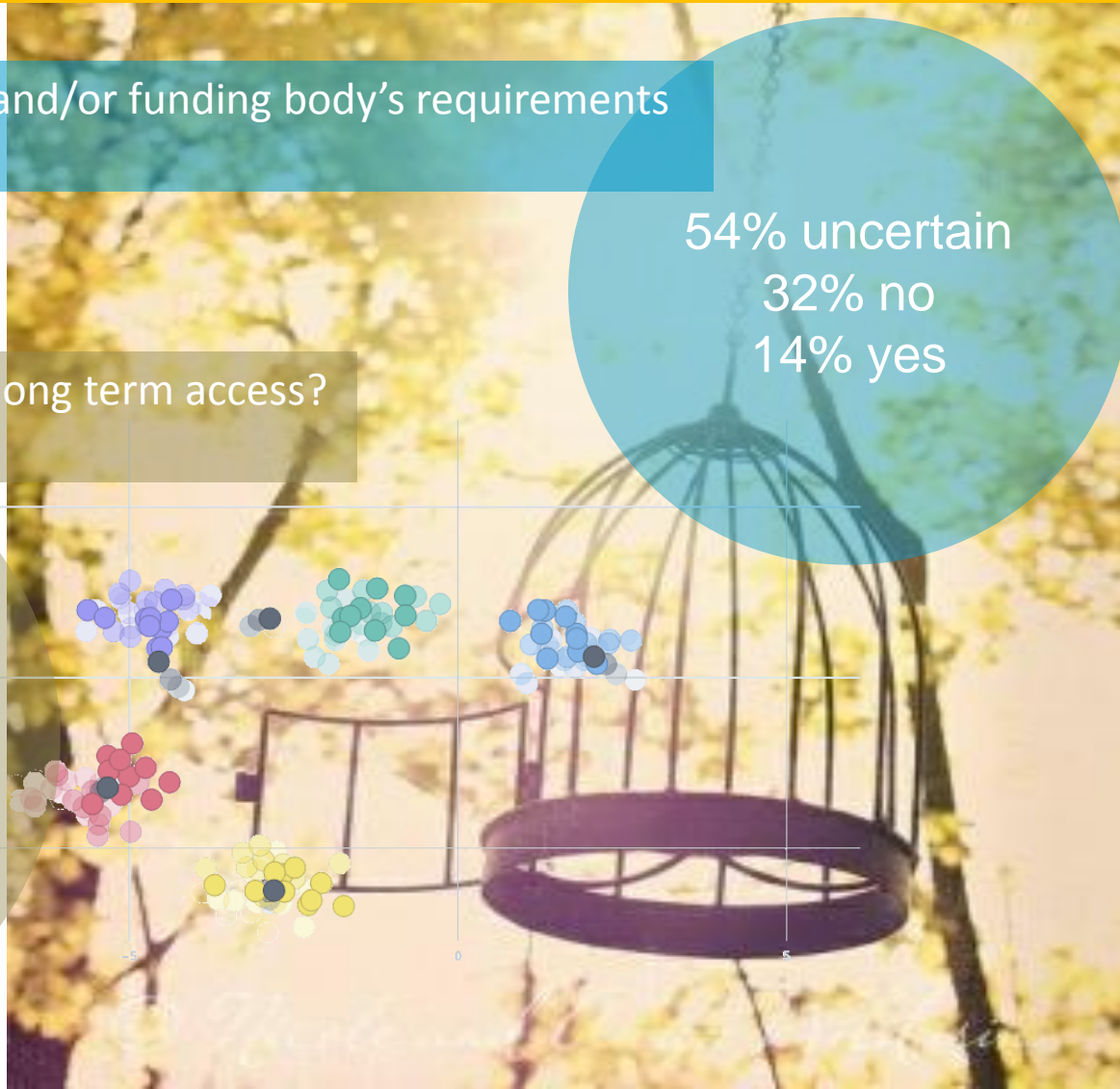
Data Storage

Are you familiar with your university and/or funding body's requirements with regard to data storage?

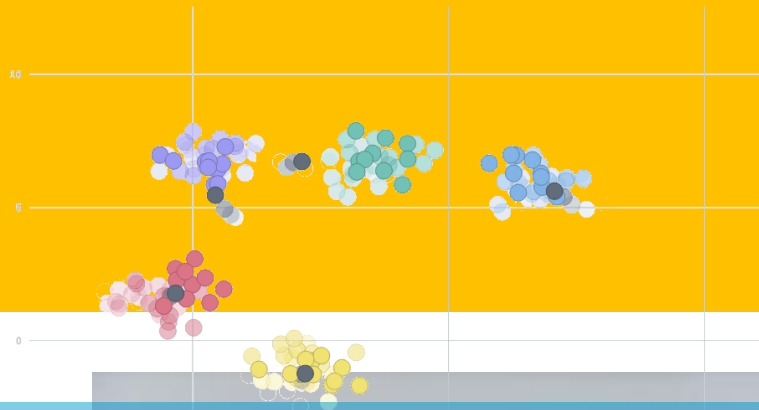
54% uncertain
32% no
14% yes

Where should the data be stored for long term access?

83% at your university
37% at external storage unpaid
19% with the funding body
8% At external storage paid
2% other



Data Literacy

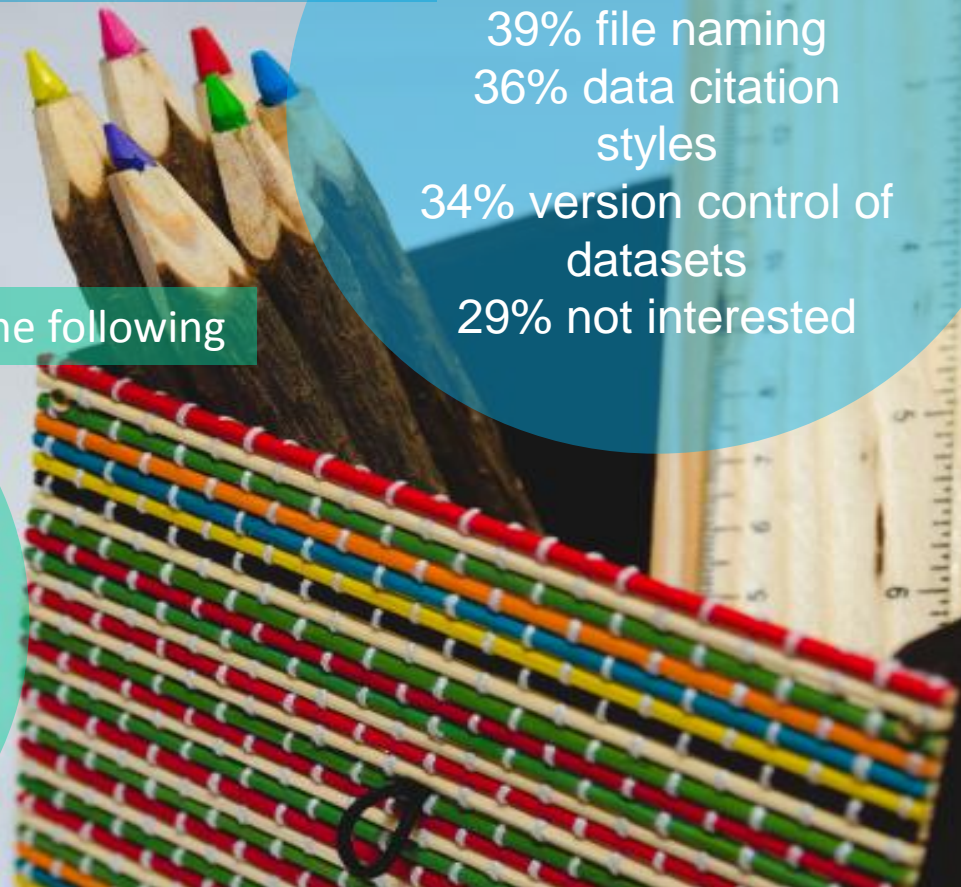


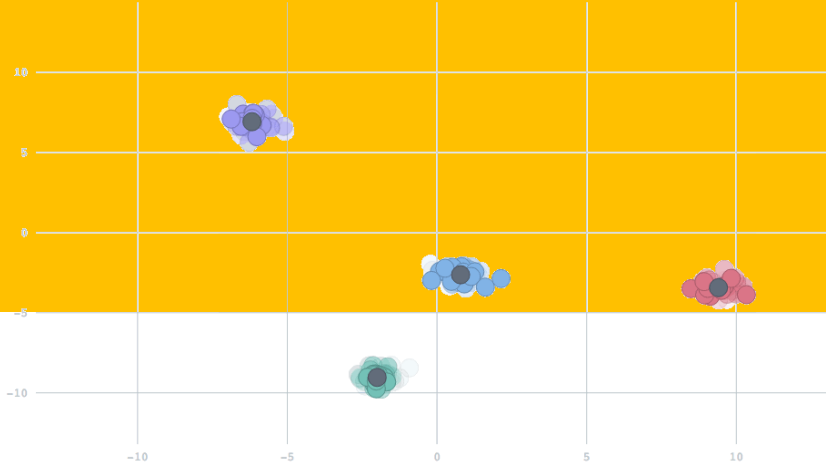
Would you like to have a formal training on the following

56% DMP
53% metadata
39% file naming
36% data citation
styles
34% version control of
datasets
29% not interested

Have you had a formal training on the following

87% not received
11% data citation
styles
5% metadata
4% file naming
4% version control of
datasets
2% DMP





“Comments

"A researcher is as productive and creative as he feel to be a mindful member of a community and not a cog in the machine".

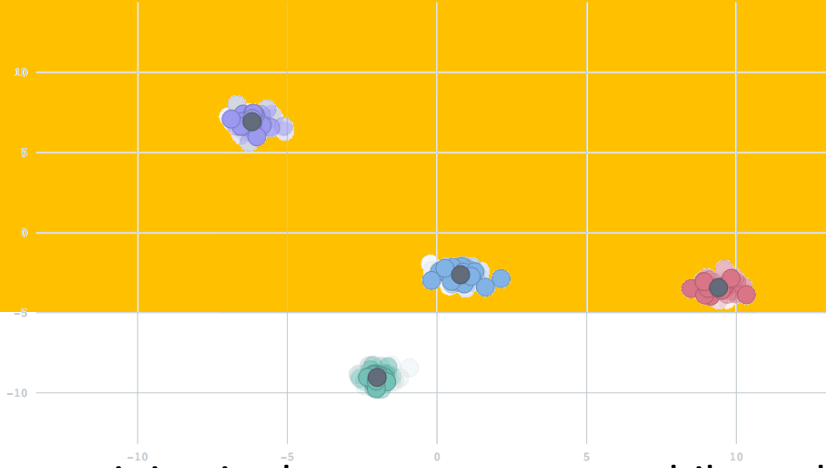
"Pragmatism and focus on goals, avoiding new stratification of bureaucracy".

“Standardization = complication: NO !!”

“non-imposition of abstract patterns”

“Humanists find it difficult to share their results, since they are ideas, arguments, interpretation, etc. (rarely new data, which can be processed further).”

“I'm almost starving”



“Comments

“I got training in data management while undergraduate student in Statistics. This is probably a training that should be offered in other courses (undergraduate or graduate) to students that are expected to have professional positions (academia or not) which require some data.”

“Lack of computer courses not only for data management, but also for computer analysis with the new technologies available”.

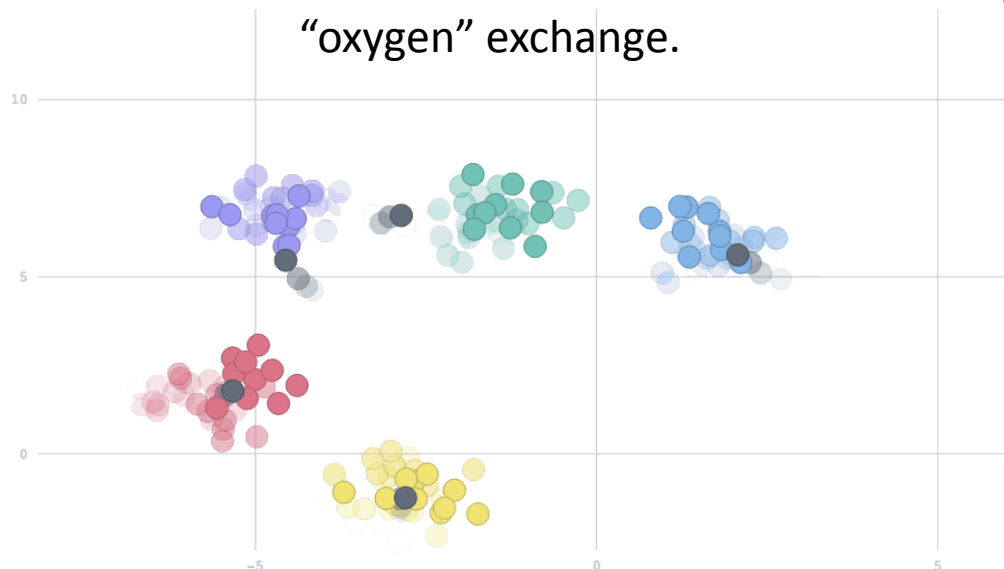
“I would have liked to receive training during the PhD course on how to quote and identify bibliographic resources, which, in a sense, are my "data"”.

“It would be desirable to use more accessible databases for publishing search and pre-print data for a better and better sharing of scientific research results (not just in physics, maths and computer science where tools are already used).”

“Conclusions

We observe in general:

- an endless but encouraging lack of knowledge concerning the data management issue.
- unclear policies and guidelines of the university regarding OA and DMP generating confusion and uncertainty.
- low internationalization and consequently low data sharing and “oxygen” exchange.



“Special Thanks
to our colleagues of the MMCenter:

Maria Laura Vignocchi & Irene Frascari



Let's keep in touch...

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