Facing the Open Science challenges from a university perspective

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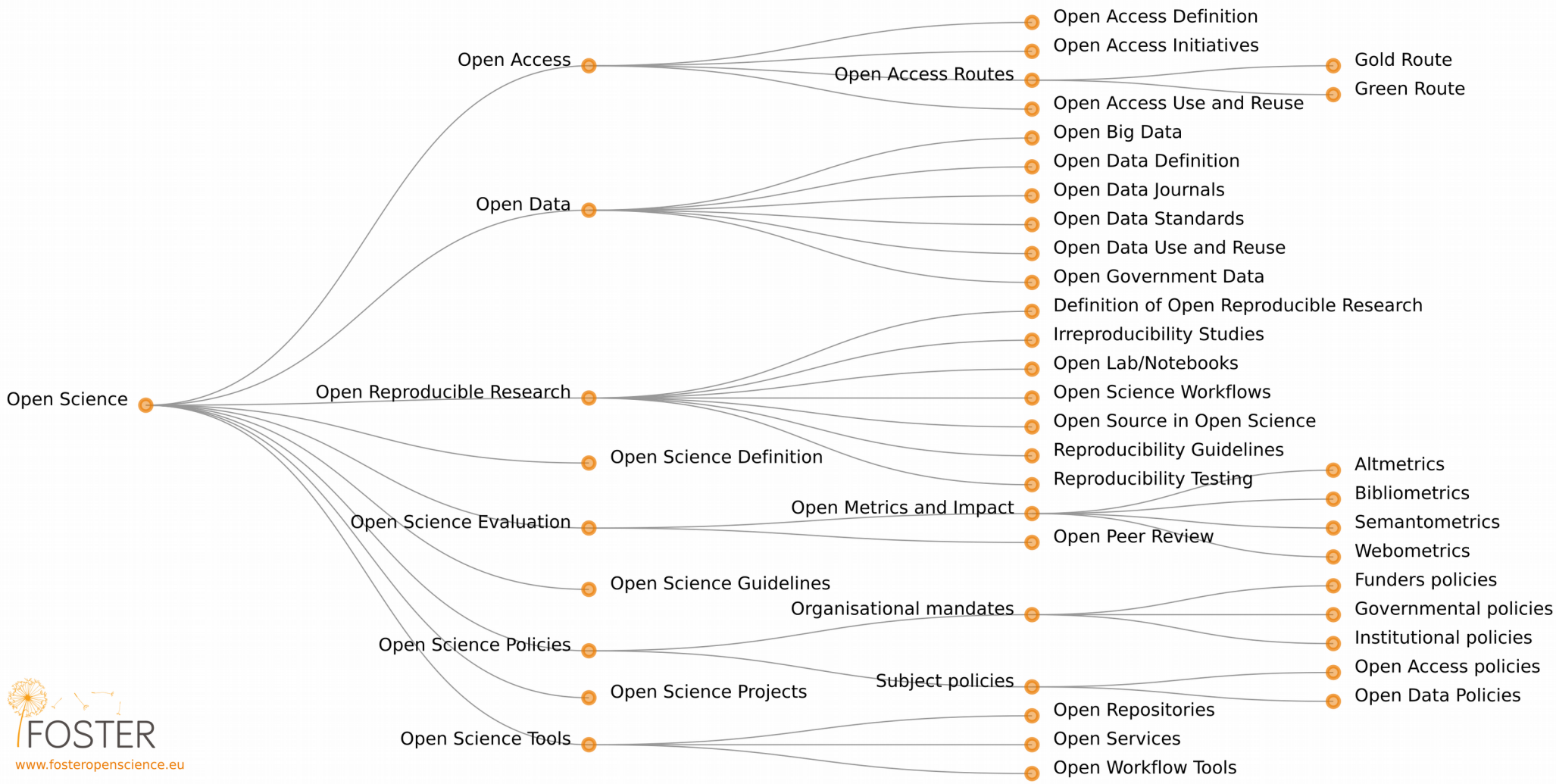
Open Science Taxonomy



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Open Science challenges

- Understanding what Open Science means
- Preparing the institution for a change
- Acknowledging new ways of doing science
- Improving infrastructures
- Sharing outputs and best practices
- Reshaping evaluation and assessment

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Let's create a "roadmap" to Open Science

- Defining Open Science
- Identifying working areas
- Acknowledging what has been done until now
- Engaging all the people involved in the change
- Planning actions
- Monitoring actions
- Reviewing and updating

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Definitions

Open Science aims at transforming science through ICT tools, networks and media, to make research more open, global, collaborative, creative and closer to society.

https://ec.europa.eu/digital-agenda/en/open-science

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Definitions

Open science is the movement to make scientific research, data and dissemination accessible to all levels of an inquiring society, amateur or professional

https://en.wikipedia.org/wiki/Open_science

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Identifying Working Areas

Publications

Research Data

Other Research Outputs

Societal Impact

Evaluation

Infrastructures

Policies

Beyond Science/Research

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Working with and for People

Acknowledging leaderships and new behaviours

Building communities and sharing best practices

Rewarding new outputs and new methodologies

Training at any level of the community

Changing mindsets, working frames

Engaging citizens

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What has been done until now?

In the area of Open access to publications

- Is there an Institutional Policy?
- Is there an Institutional Repository?
- How open are Institutional Journals?
- Is the University Press engaged in openness?

Monitoring the policy

Current percentage of OA access, green or gold

Calculation of costs for publishing openly

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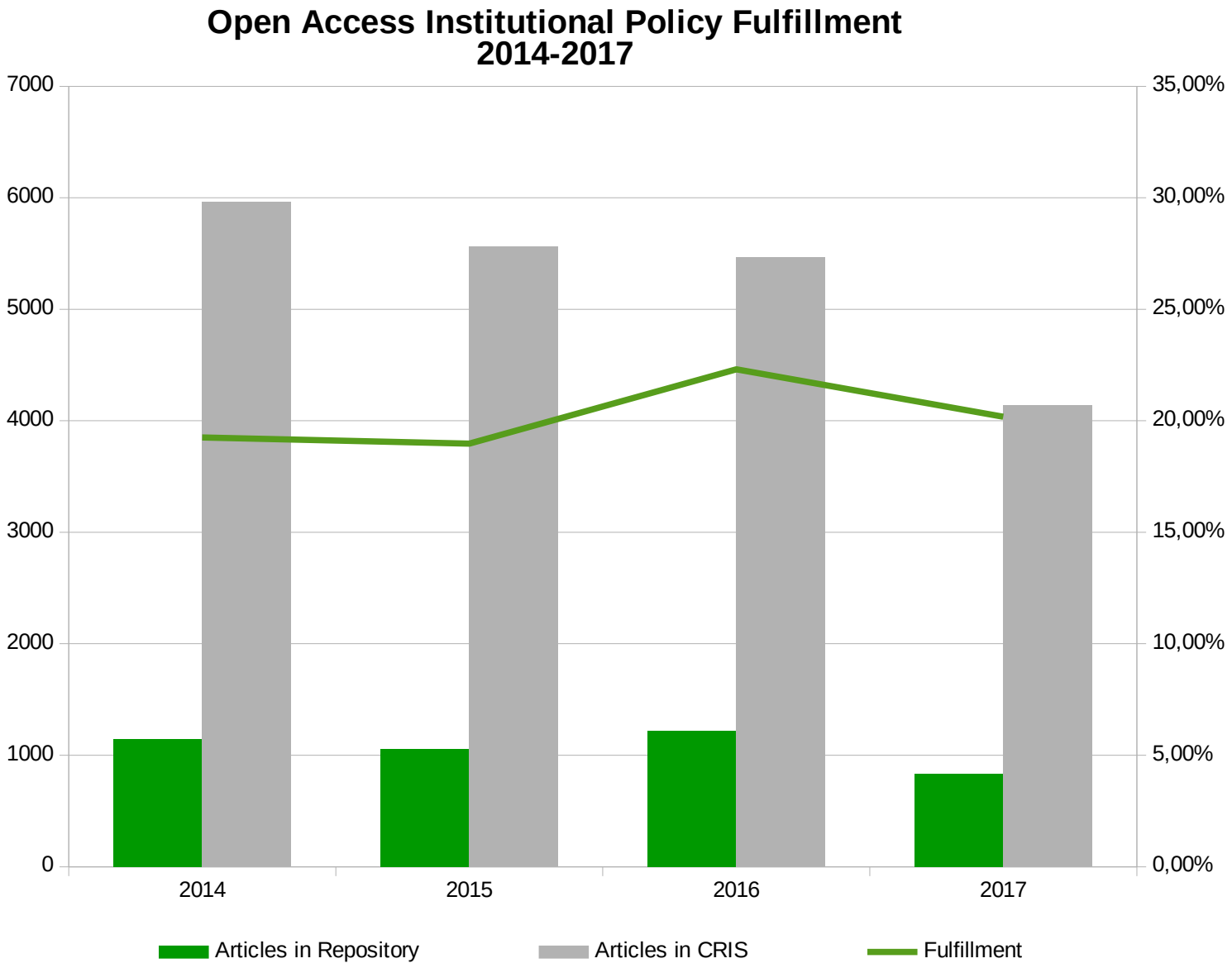

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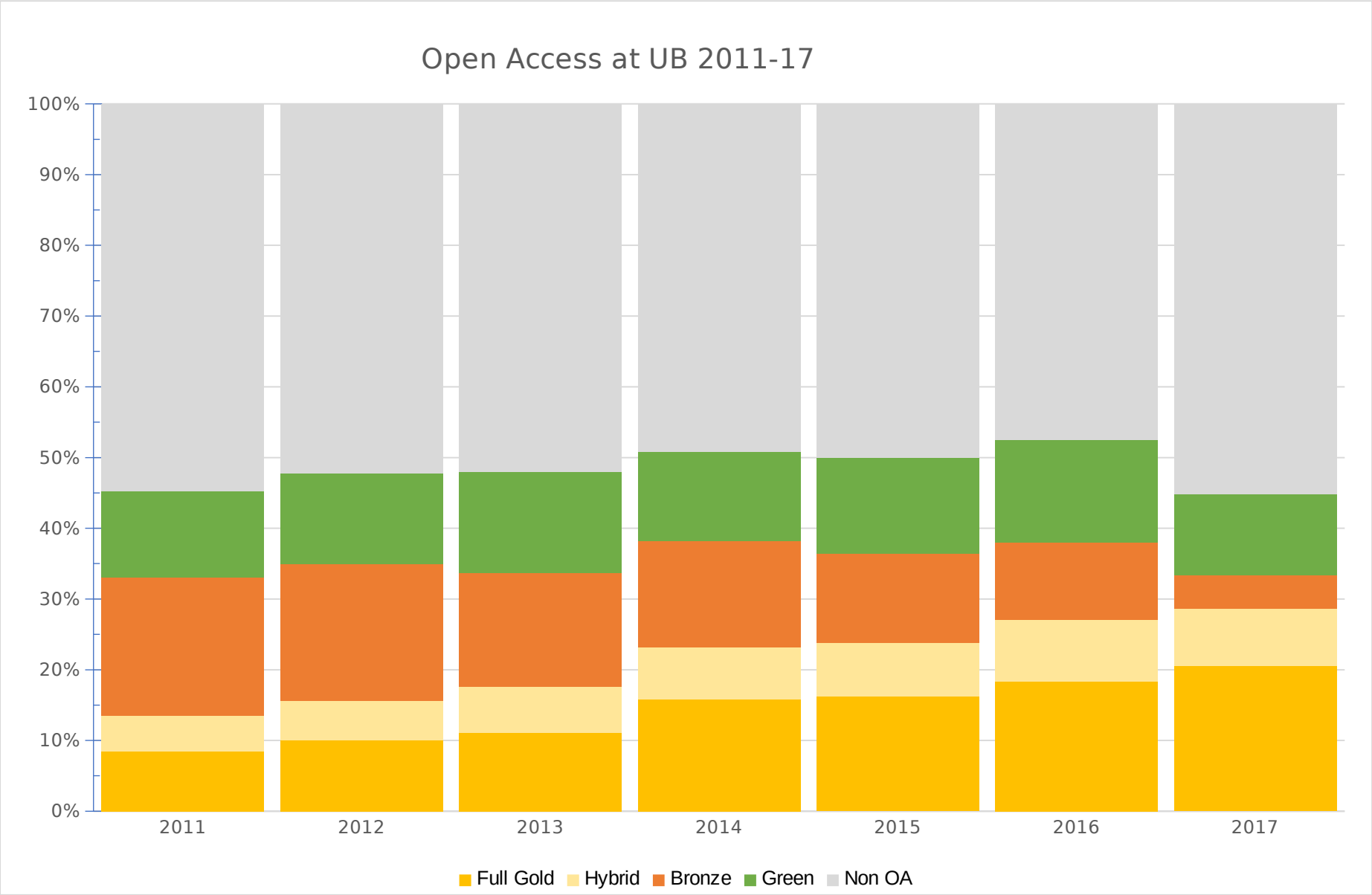

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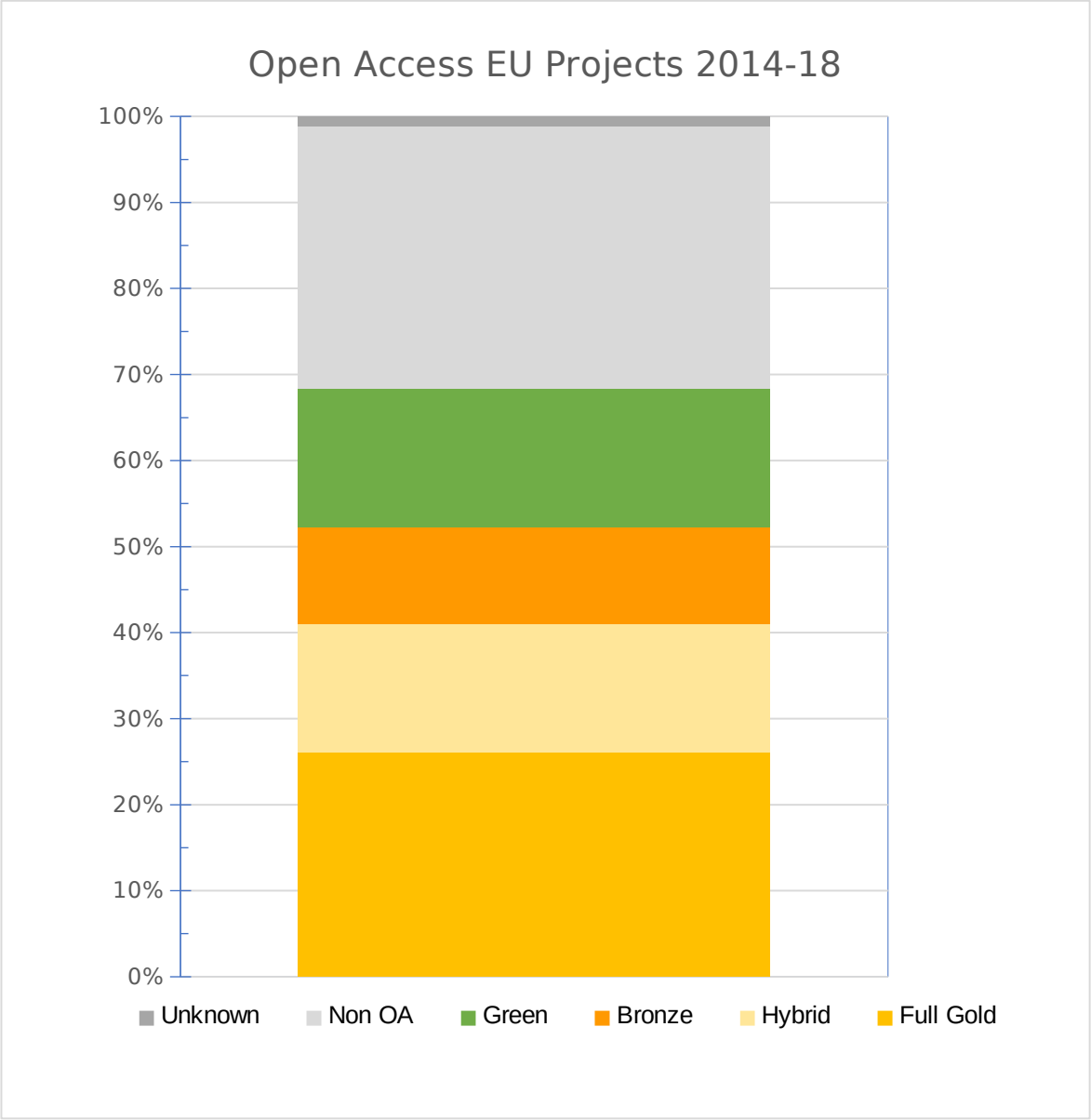

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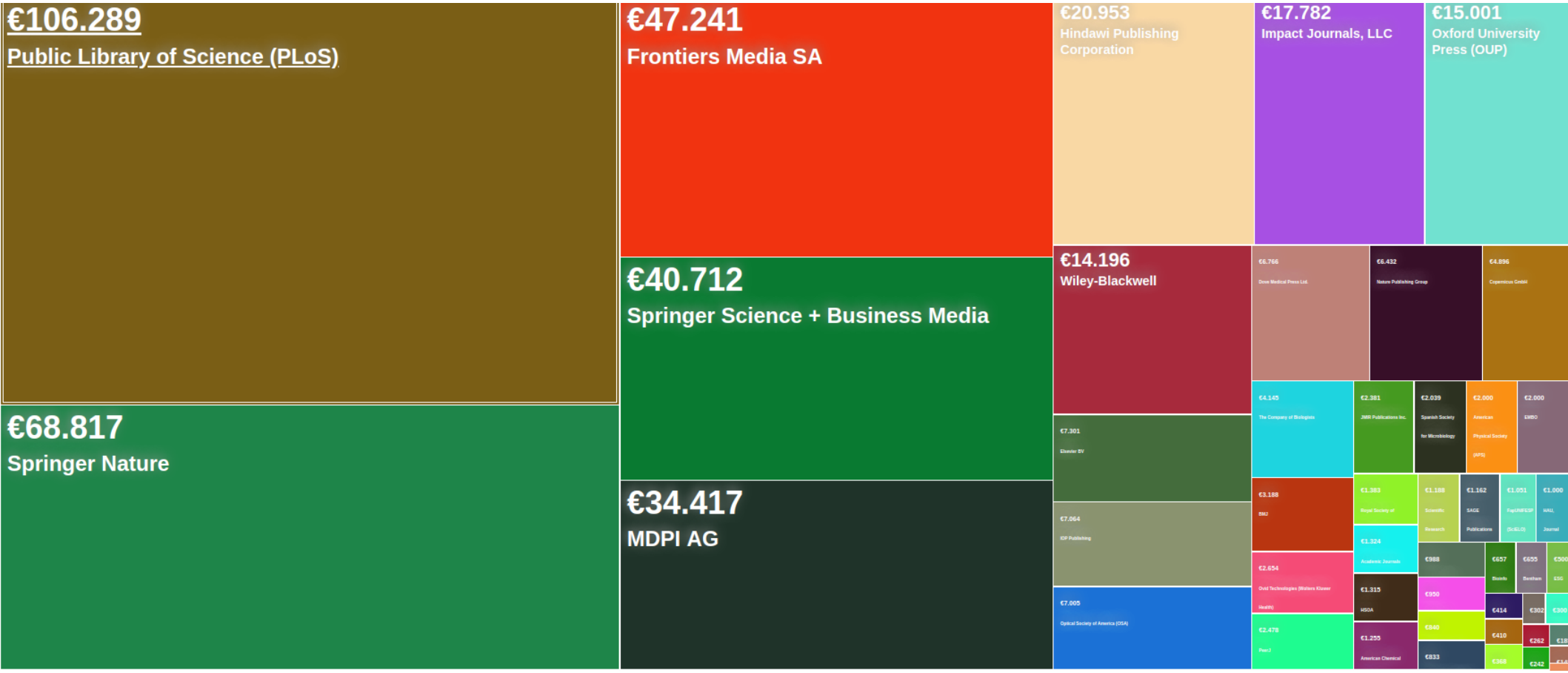

https://treemaps.intact-project.org/apcdata/barcelona-u/

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...and then, analyse future scenarios

1) Could we achieve 100 % Open Access in publications ?

2) Are we ready for an offsetting, or to flip models ?

3) Are Publishing Platforms a solution or a problem?

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What has been done until now?

In the area of infrastructures

- Do we provide repositories for publications, data, code?
- And facilities for Research Data Management?
- Or facilities for Digital Humanities?
- Are we connected with external facilities?

Are services around those infrastructures?

Have we done an analysis of costs?

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Then we can establish some goals

For instance the Amsterdam Call for Action established two goals:

- Full Open Access for all scientific publications
- A fundamentally new approach towards optimal reuse of research data

With the help of

- New assessment, reward and evaluation systems
- Alignment of policies and exchange of best practices

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Some actions needed for achieving those goals

- Exploring new ways of evaluating research
- Retain control over research outputs
- Sharing by default but closing when needed
- Negotiate with stakeholders introducing open access principles
- Transparency on public spending
- Institutional policies on Open Science
- Set up infrastructures and/or engage in external ones
- Share openly outcomes from Citizen Science projects

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Open Science at University of Barcelona

Identification of working areas:

- Open Access
- Research Data Management
- Evaluation
- Public Engagement

Creation of a Steering Committee and dedicated working groups

Development of actions after analysing the current situation

Planning training sessions to all the community

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First Area: Open Access

Currently:

- Institutional Open Access Policy
- Institutional Repository linked to CRIS
- Funds for Open Access Publishing excluding hybrid
- Open access at institutional journals
- Few open access experiences at University Press

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First Area: Open Access

Planned actions:

- Review of the Institutional Open Access Policy
- Review of the Open Access Funds for Publication
- Expand Open Access principles in new Collections at University Press
- Disclosure of the scholarly publication costs
- Calculating offsetting/flipping scenarios
- Include Open Access principles in negotiations

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Other Planned Actions

- Adoption of an RDM Policy based on the LEARN model
- Study of existing and needed infrastructures for research activities
- Analysis on how to sustain external infrastructures for openness
- Introduction of new research outputs in internal evaluations
- Acknowledgement and rewards of citizen science activities
- Training at all university levels

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Let's be open!

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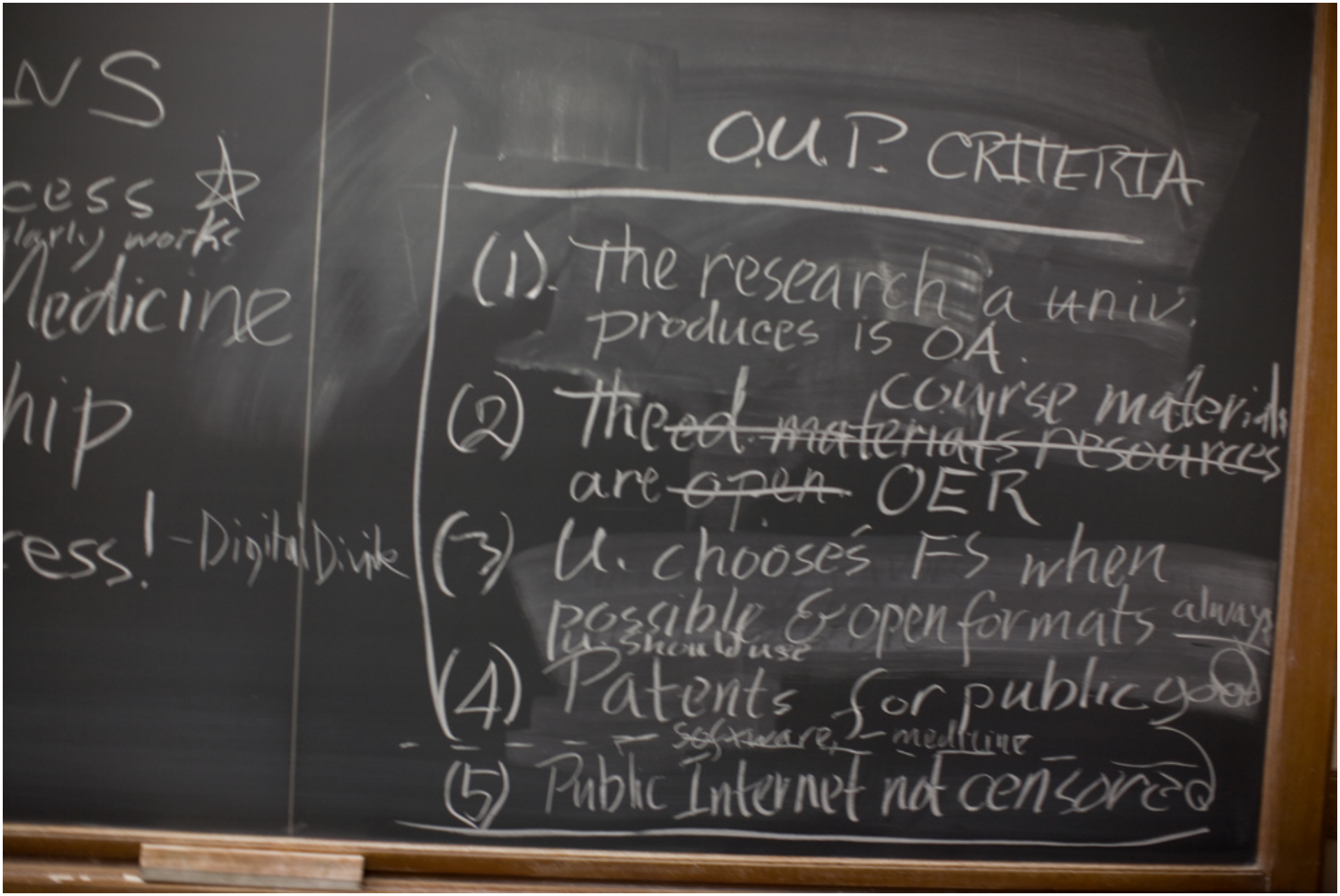

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Questions ?

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