



Open Science in Universities: Implications for research and for doctoral education

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Open Science in Doctoral Education: Practical insights from the University of Liège

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Open Science @



	Achievements
2005-2006	PoPuPS : Portal of Scientific Periodicals BICTEL/e repository of doctoral dissertations
2007-	ORBI Open Repository <ul style="list-style-type: none">- 2017: 146,995 references - 93,359 full text docs- Support & training from the Bachelor level- Use for the evaluation of researchers and projects
2017	<ul style="list-style-type: none">- WG on Open Data, strong committment- Open Innovation still on track- Open Source well implemented with the help of national funders- Trainings and seminars

Doctoral candidates



Currently deal with Open Science in doctoral training, mainly with:

- Open Source
- Open Access

Open Source



- Bibliographical references manager : Zotero, Mendeley, citeulike;
- Bibliographical researches: Google Scholar, DOAJ, DOAB;
- Statistical programs: R;
- Mapping tools: QGIS, Open Layers, OpenStreetMap;

Open Access



- Mandatory archiving of scientific papers and research articles in the ULg Institutional Repository: **ORBi**
- Trainings on OA, ORBi specific functionalities (reports, usage statistics, Altmetrics)
- Promoting our research papers via the scientific communication tools: ResearchGate, Mendeley, Academia.edu, ORCID and social media for scientists: Twitter, LinkedIn

Publication Practices



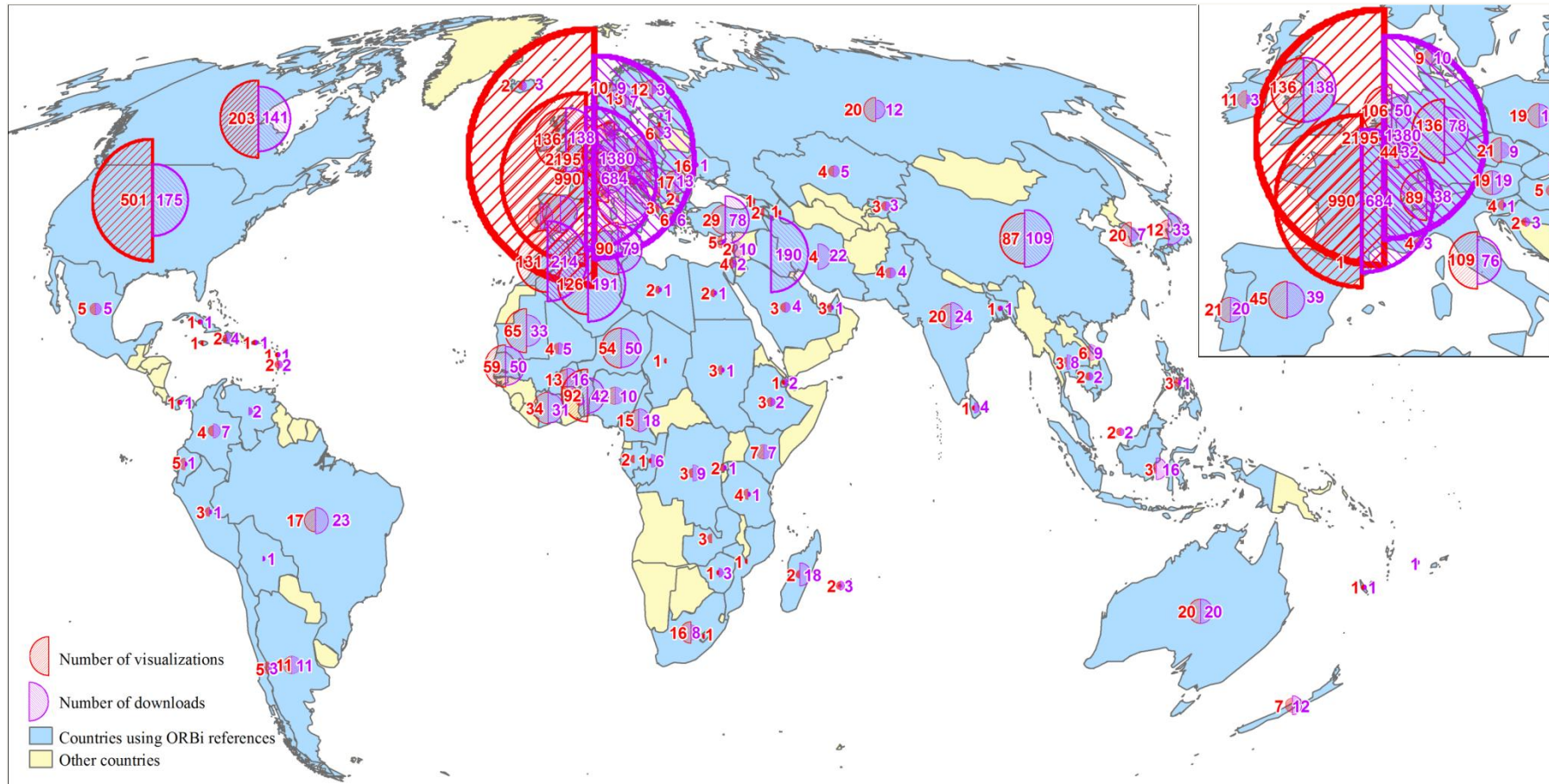
Open Access publishing **encouraged** lately

BUT

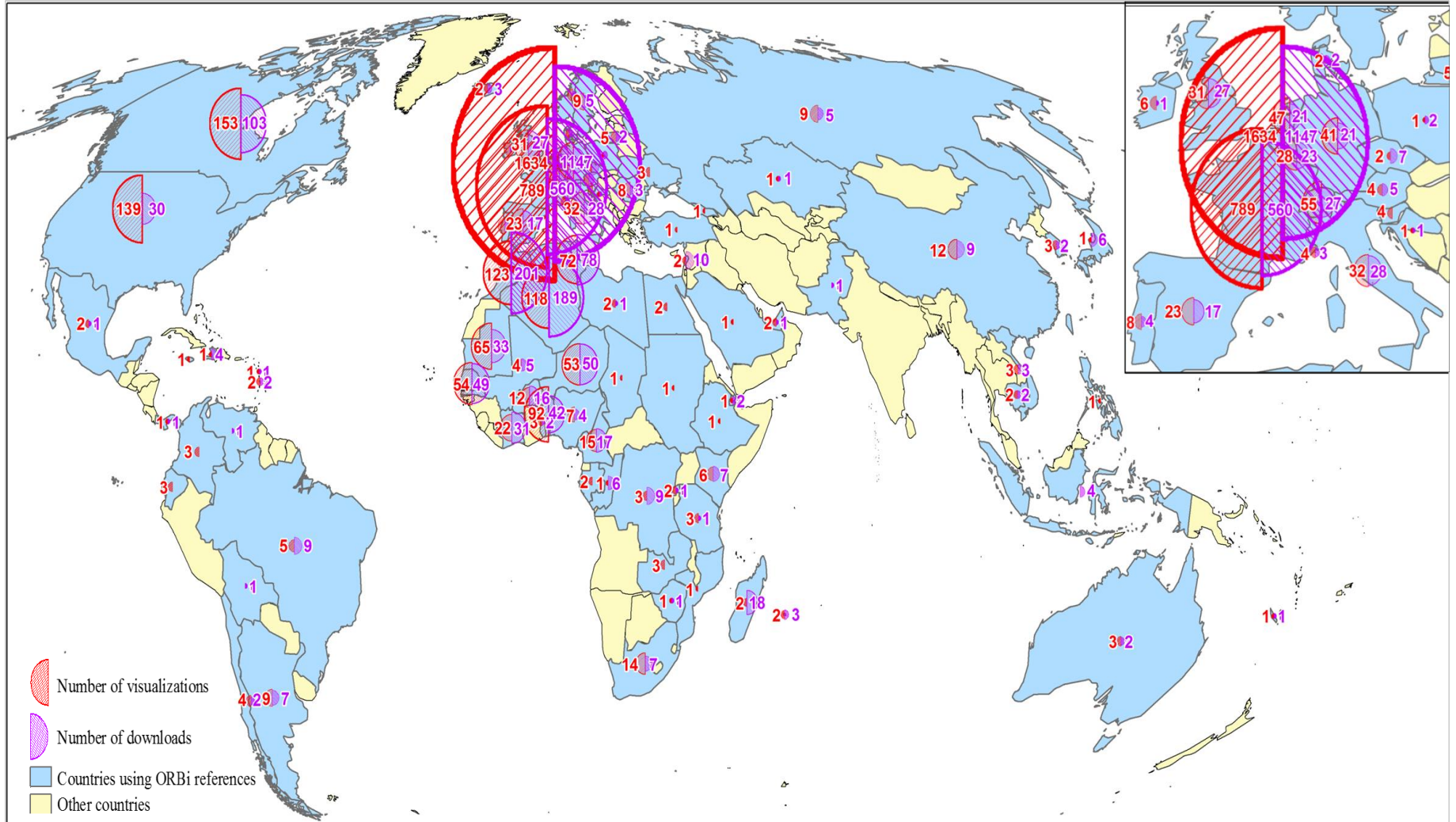
CONTRADICTIONARY

with the requirements of Doctoral Colleges

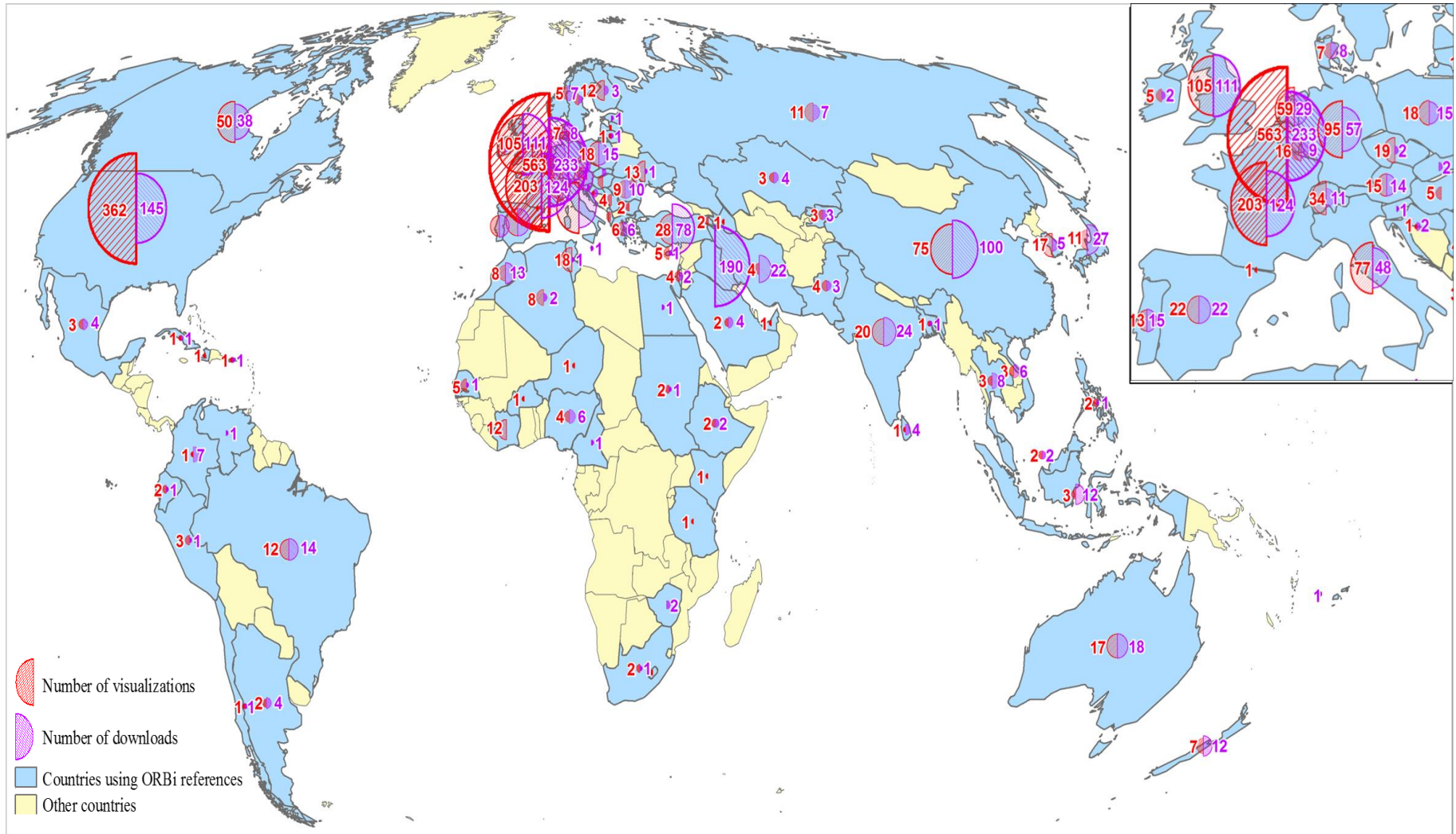
“Geographical literature” usage in ORBi – some research results



French references usage over the world



English references usage over the world



Findings

- The frequent publication of the English articles in Impact Factor Journals does not increase the usage of the English geographical literature
- The higher usage of the French references is probably due to the local character of the case studies and their publication in French national journals not indexed by the bibliographical databases
- Countries most viewing and downloading geographical references from ORBi are French Speaking and developing countries with no access to commercial bibliographic databases
- Article's language and the specificity of the case studies could play an important role in the article's usage over the world

Doctoral training

Trainings & credits

- Open Access Basics
- Copyright & Open Access
- Keysteps for recording of publications in ORBI
- Creation of automated reporting using ORBI
- Open Source Development
- Professional Open Software
- Users' guides and videos
- Charter and Code, HRS4R

Boost actions

- Eligibility of OA-APC
- Recognition of OA publication
- ORBI is mandatory



Axe 6 OPEN SCIENCE, OPEN RESEARCH

L'Open Access est de plus en plus incontournable et notamment dans le domaine de la recherche. Avec son répertoire ORBi, l'ULg a montré son engagement dans le processus. Cet axe de formation détaille quelques outils intéressants pour innover et diffuser votre recherche.

« To make progress in science, we need to be open and share ».

Neelie Kroes





How to boost the process?

- Institutional committment
- Essentials for research
- Availability of tools
- Support to authors
- Monitoring compliance
- Staff training for peers



What can slow it down?

- Self-funding (APC)
- Recognition
- Tools functionalities
- Bad communication
- Career perspective

*There is no alternative to OA,
there is no science
but an open one*

H-J Bungartz, EUA-CDE Doctoral Education Bulletin, 8, winter 2016