

# Going **Green** - Publishing Academic Grey Literature in Laboratory Collections on HAL

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# The context

## National Plan for Open Science



### Open science

- The practice of making research publications and data freely available, open to all, without hindrance, without delay, without payment



### Main role of the HAL open repository

- Several hundreds of university portals and laboratory collections



### The research laboratories

- Main structure for the organization of research projects and the evaluation of researchers

# Purpose and methodology

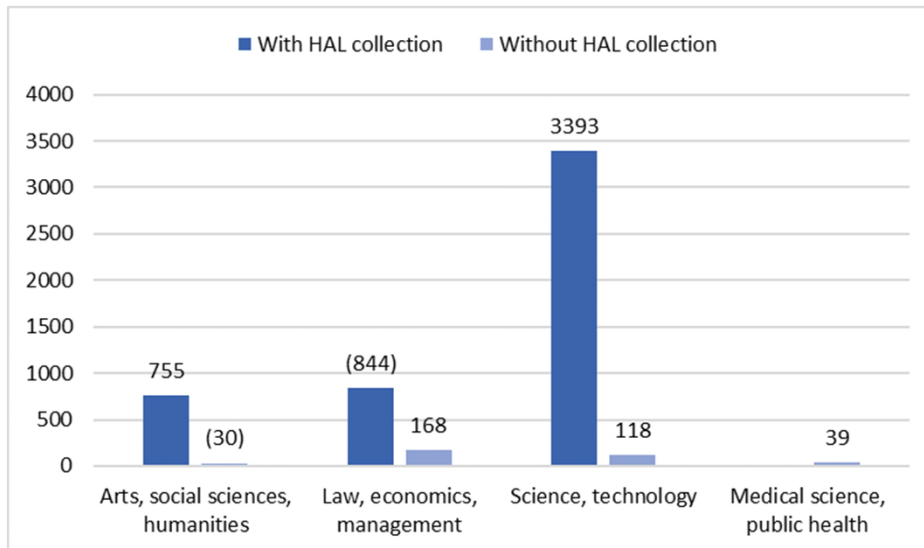
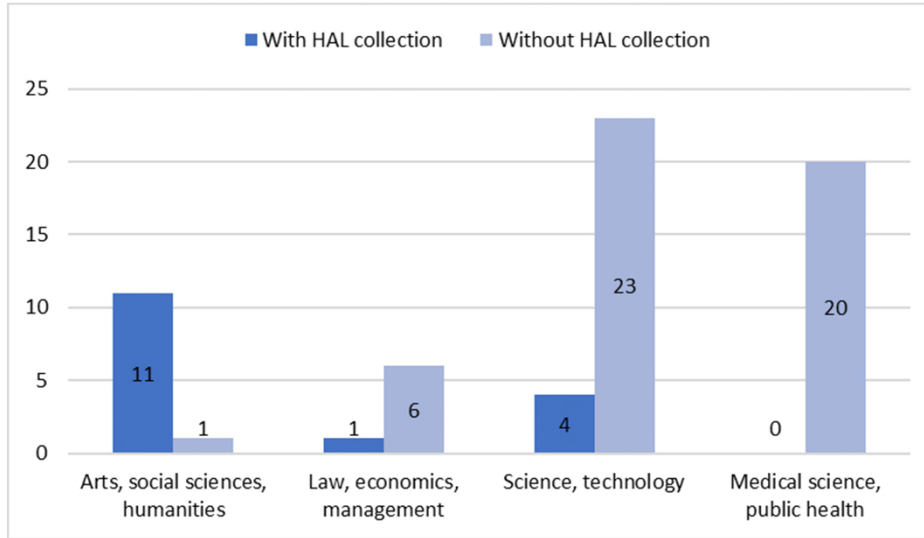
→ Sampling and corpus

1. How do the research laboratories deal with the national HAL repository?
2. And how do they make use of grey literature?



# Results

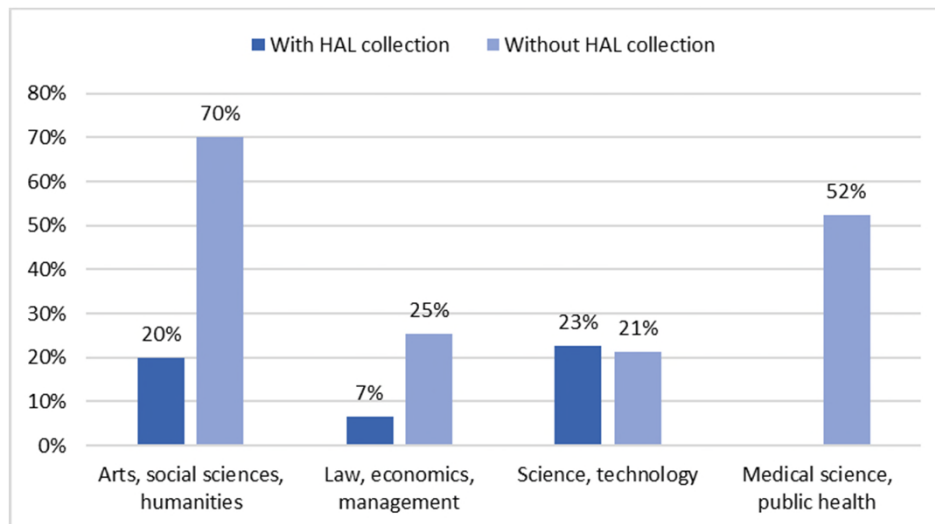
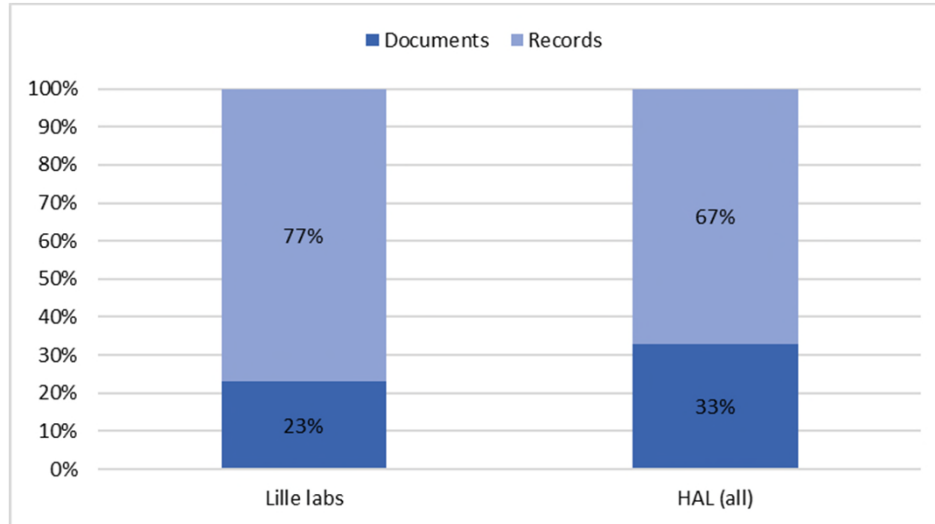
## Collections and deposits



- 16 (from 66) labs have created their collection on HAL
- These collections represent 63% of the 41,701 deposits of the University of Lille
- Their median number of deposits is significantly higher

# Results

## Deposits with the full text



- Only 23% of all Lille deposits contain the full text of the document
  - This is lower than the average of the HAL repository
- Paradoxically, this « degree of openness » is lower in the laboratory collections

# Discussion



## Main results

All research labs of the University of Lille are represented on HAL, except one medical unit. Together, they have 41,701 items

One out of four labs have created its own, customized collection on the HAL server (24%)

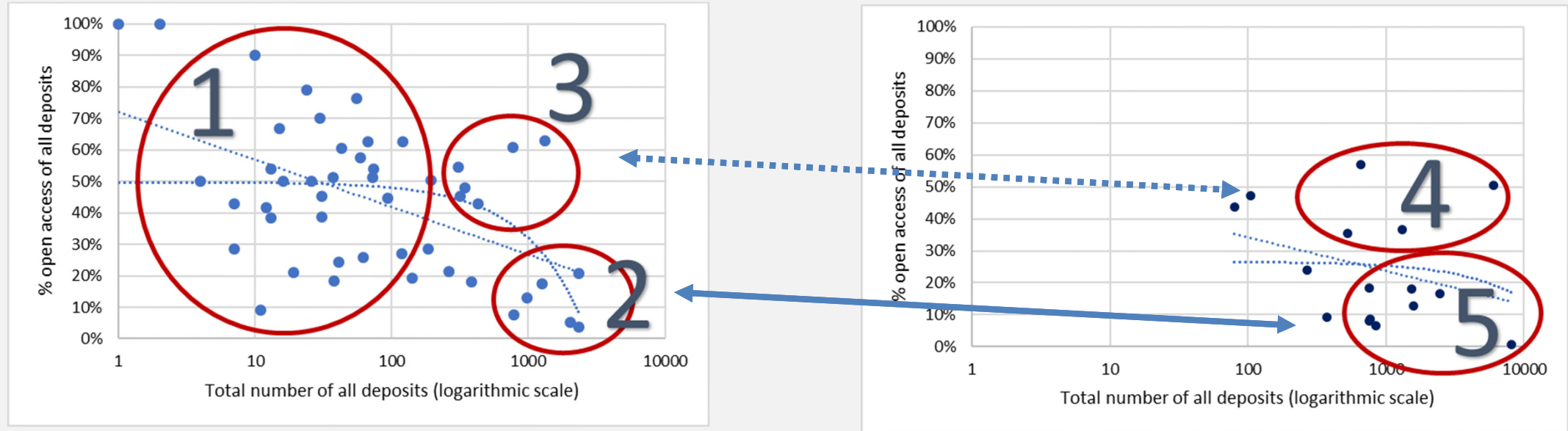
Most collections have been created by research labs in arts, SSH

23% of the deposits are open access, the rest is metadata

Regarding the part of open access, there is a weak tendency that the higher the total number of deposits, the lower the percentage of freely accessible documents

# Discussion

→ Clusters of laboratories



Clustering following the creation of a collection, the total number of deposits and the degree of openness:

- On the left: Total number of deposits and % open access for labs without HAL collection (N=50 labs)
- On the right: Total number of deposits and % open access for labs with a HAL collection (N=16 labs)

# Discussion

→ Research laboratories strategies

## No strategy 58%

- No collection on HAL
- A low number of deposits (<100)
- And/or a high percentage of documents in open access (>50%)
- Individual practice

## Reference management 29%

- A higher number of deposits (>100)
- A low percentage of OA (<25%)
- For reference management and output monitoring

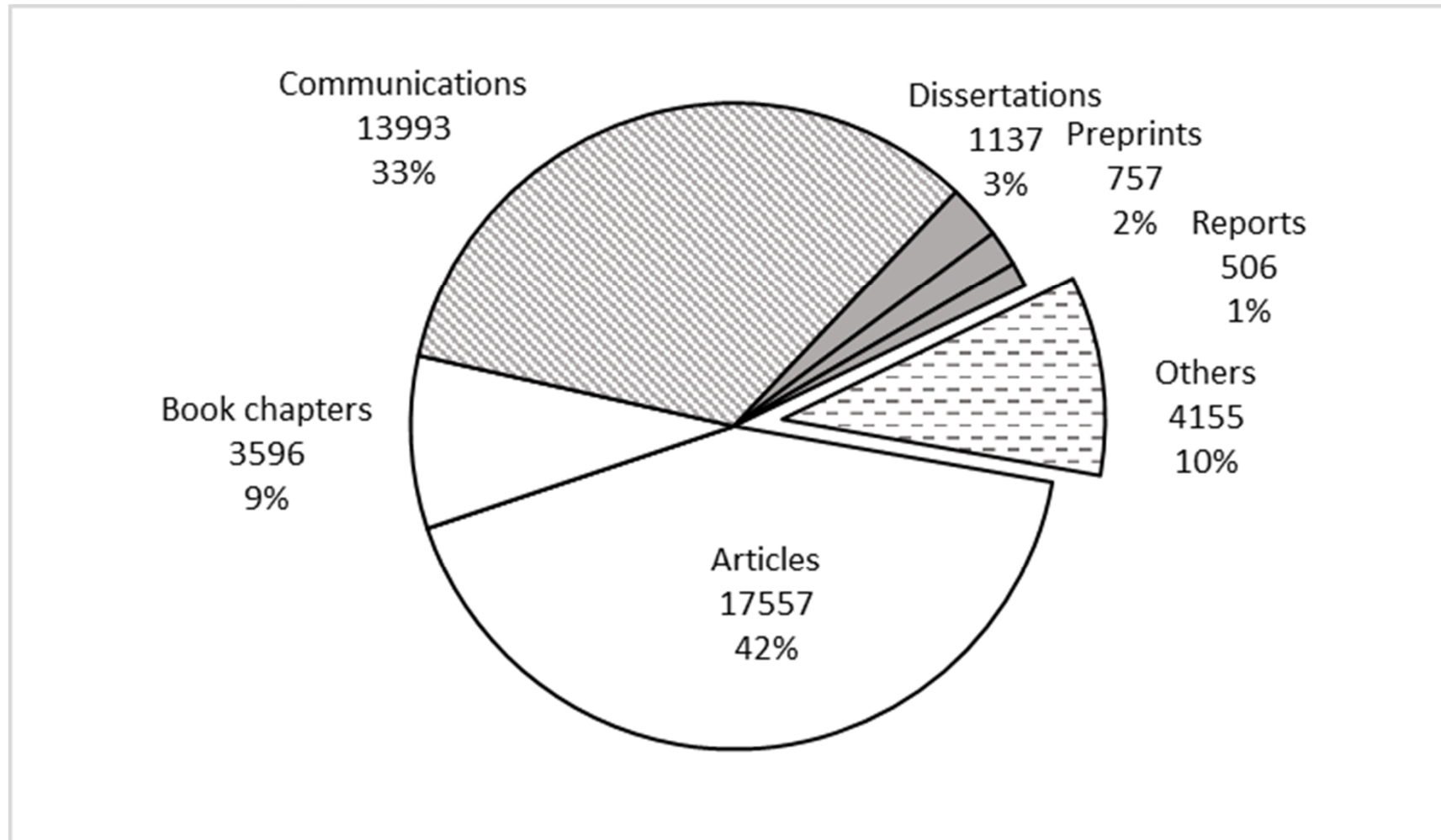
## Showcase 9%

- A collection on HAL
- A higher number of deposits (>100)
- A higher percentage of open access (>30%)
- For outreach and impact



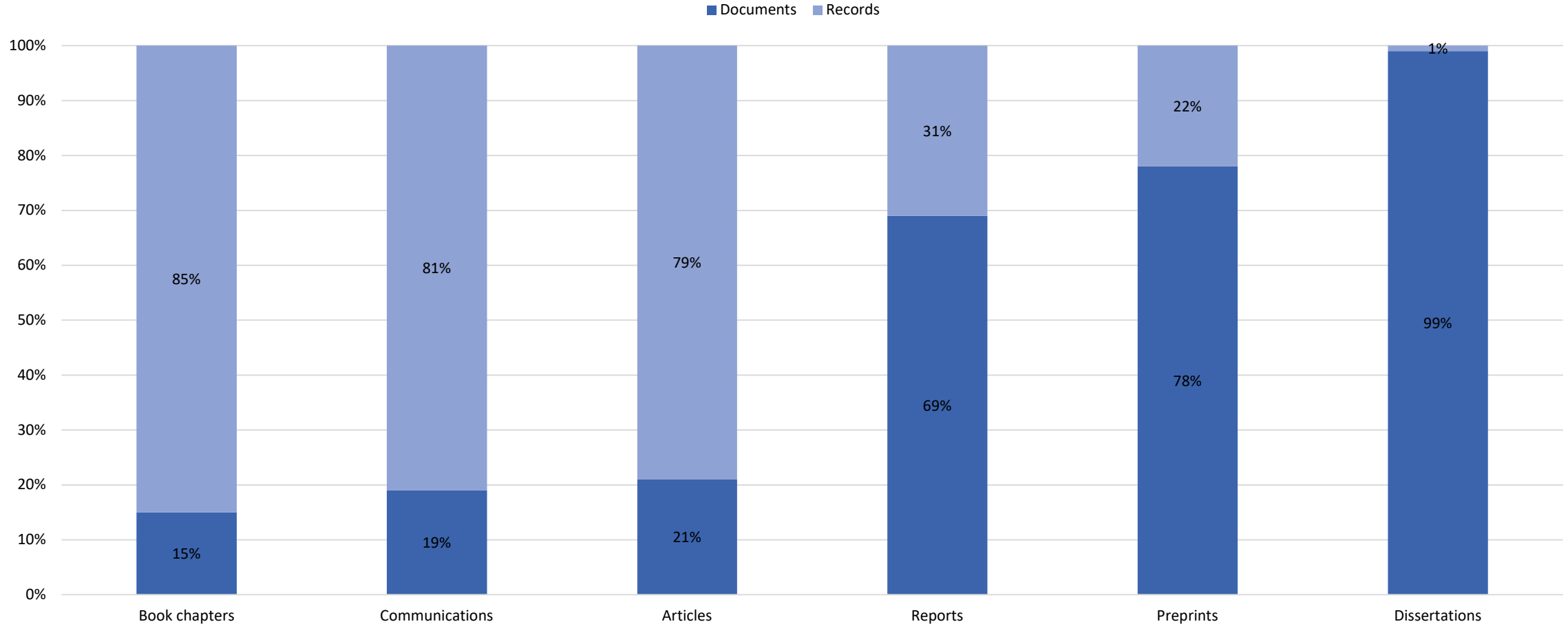
# Results

Part of grey literature



# Results

Openness and grey literature

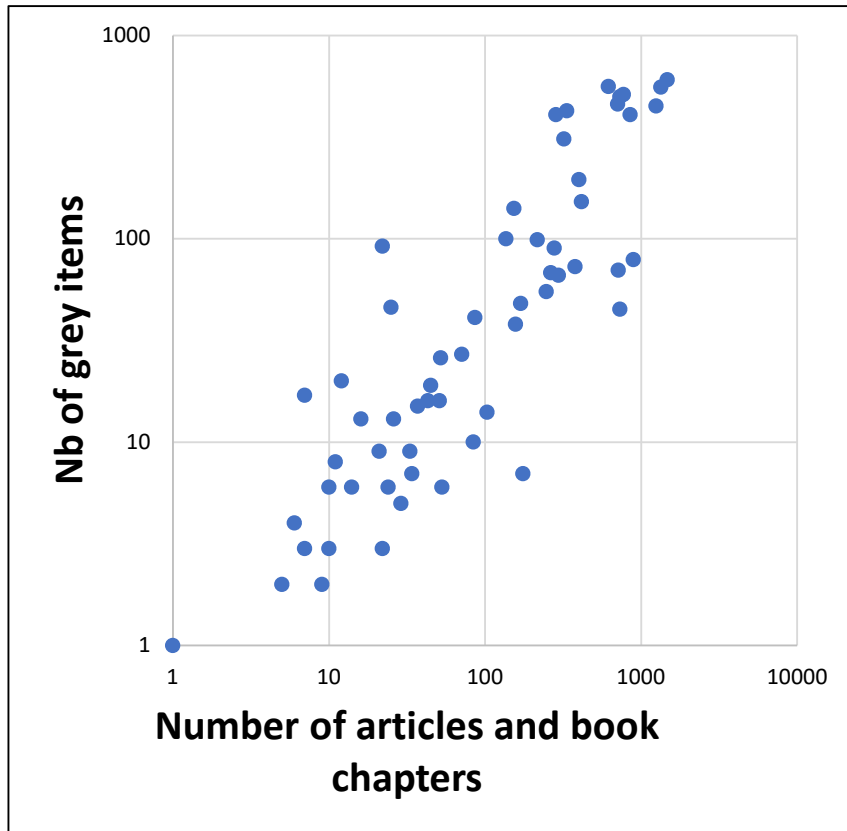


Records and documents per category (in %, N=37,546)

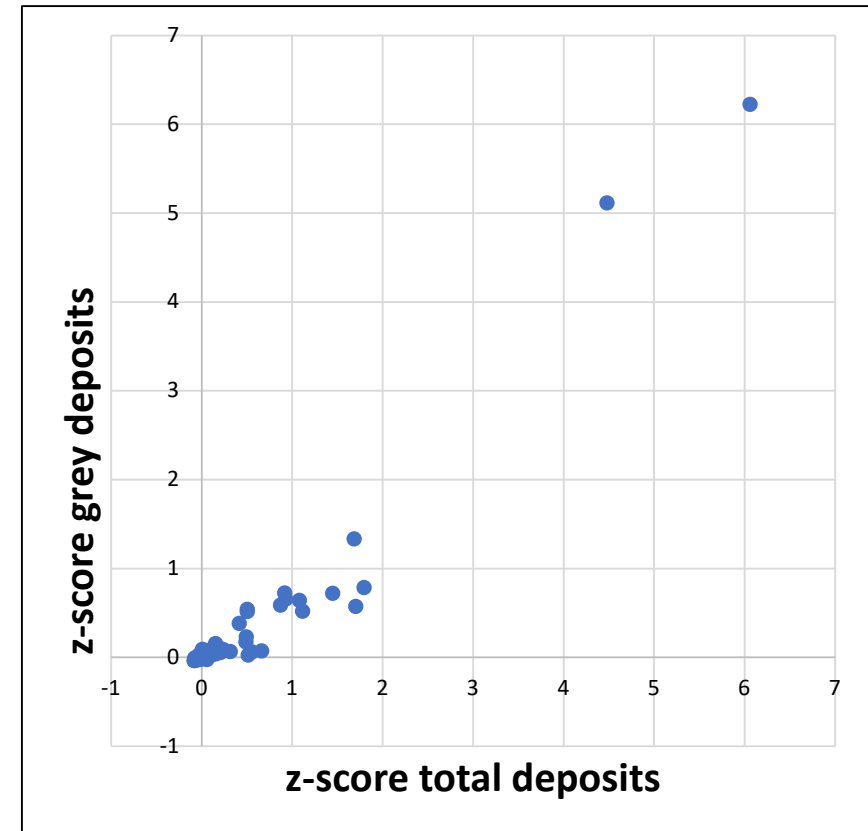
# Results

## Grey and other deposits

**When depositing, no distinction between grey and other documents**



**The higher the total number of documents, the higher the number of grey items**



# Discussion



## Main results for GL

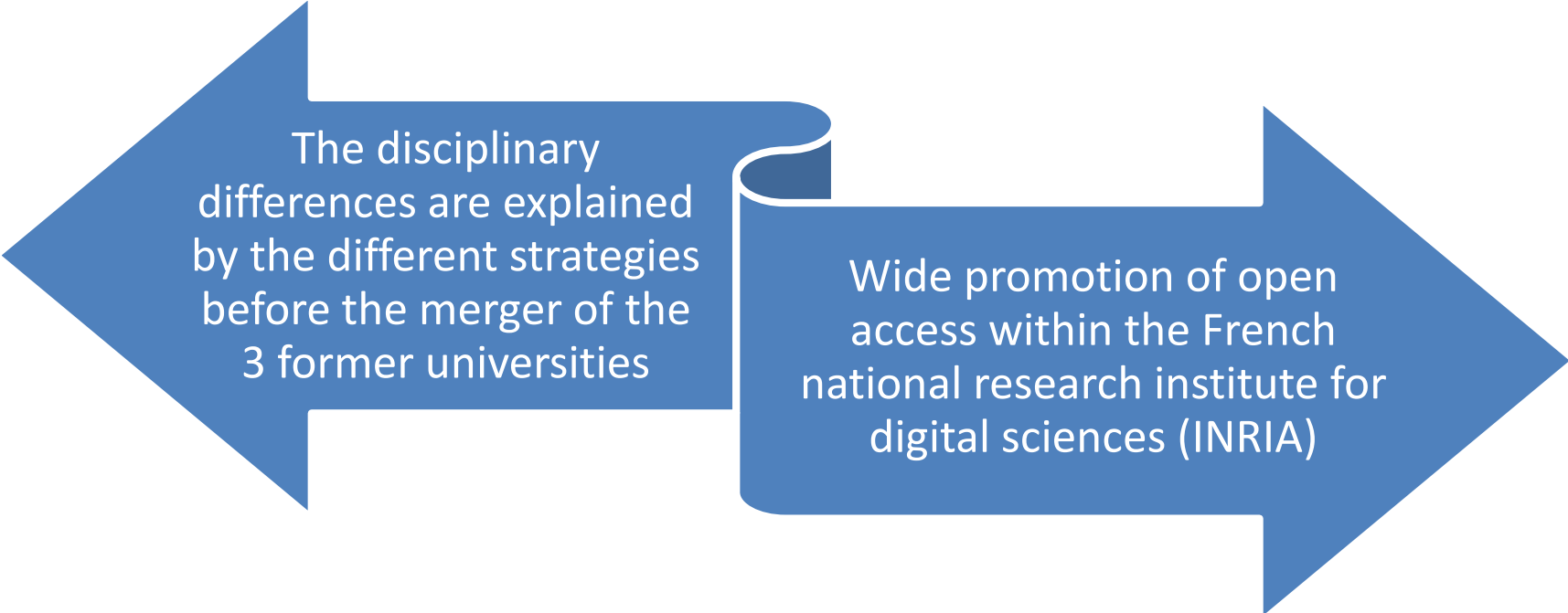
The part of GL is 39%; most of these grey items are conference papers

The number of grey deposits is strongly correlated with the total number of deposits

This percentage of OA deposits is higher for GL(29%) than for articles and books (20%). Without conference papers and presentations, this percentage is much higher (86%)

# Discussion

Institutional policies



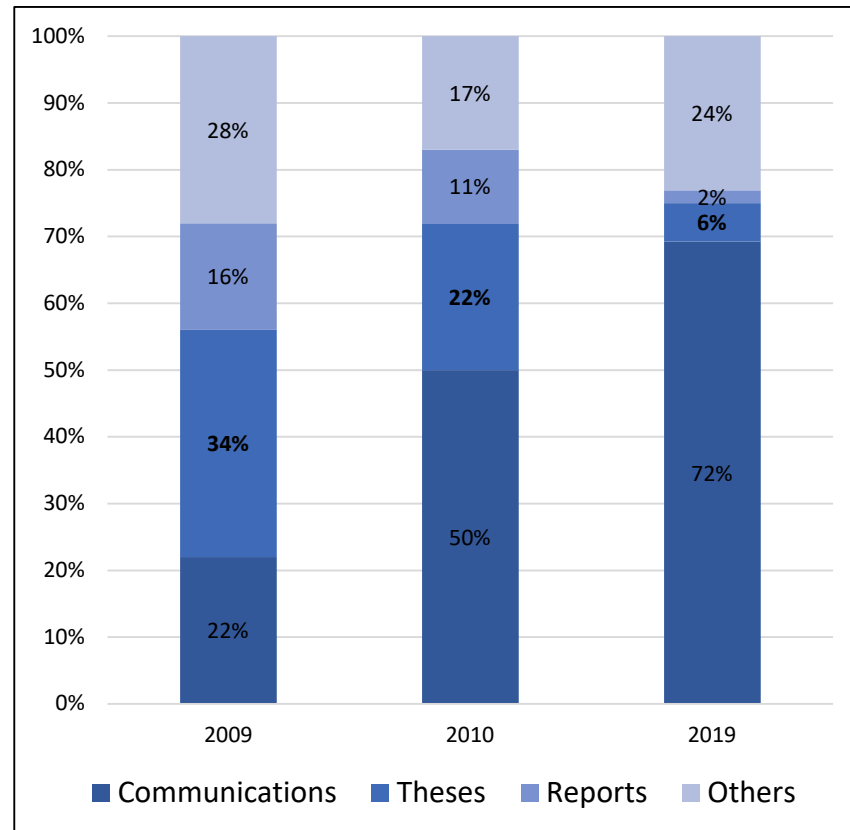
The disciplinary differences are explained by the different strategies before the merger of the 3 former universities

Wide promotion of open access within the French national research institute for digital sciences (INRIA)

# Discussion

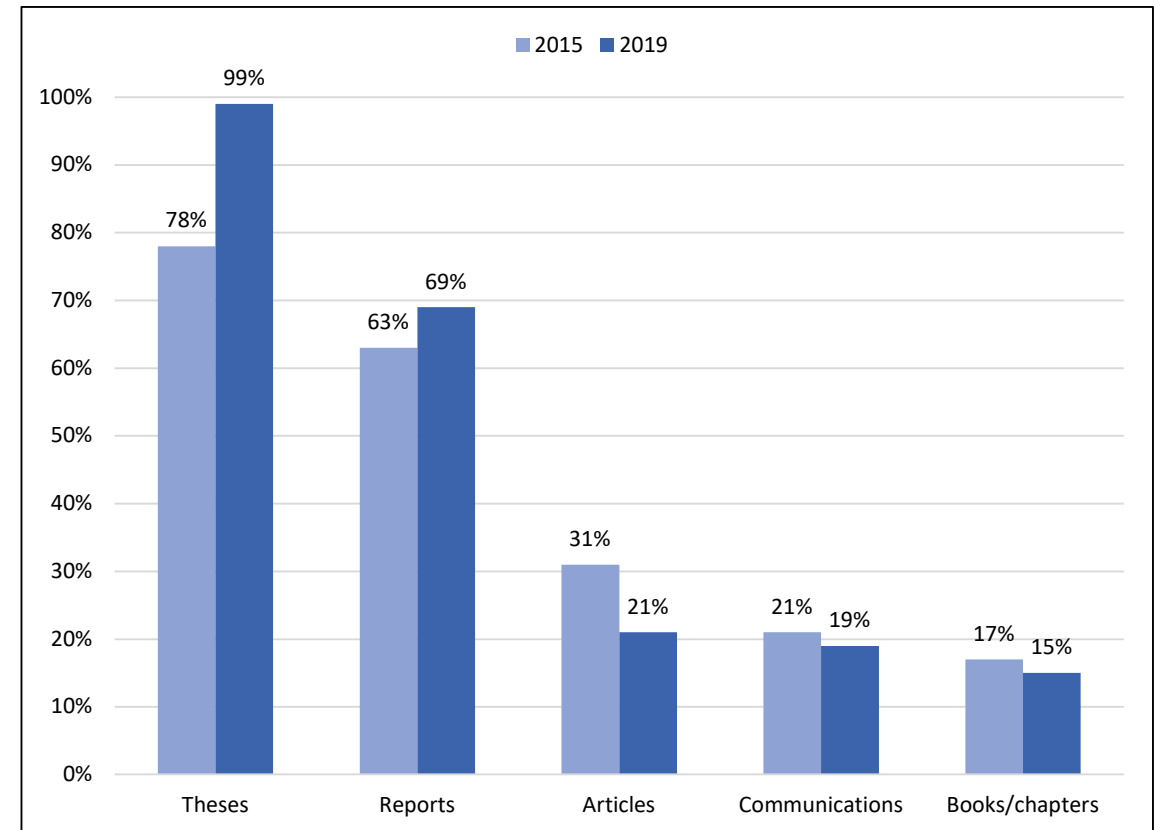
## Visibility of grey literature

Compared to former surveys, more conference proceedings (informatics, engineering, chemistry)



Distribution of GL categories in three samples (in %)

Except for conference papers, the % of freely accessible documents (OA) is higher for GL than for books or journals



Degrees of openness for different document types

# And it's not over yet

→ The HAL/LO Project

- Valuation on HAL of laboratory production in the open science environment
  - A new research project on laboratory collections and strategies on the HAL repository
  - With a representative sample of the 10 highest ranked French research universities, accounting for 1,500 research laboratories
  - Scientometrics and qualitative methodology
- Duration : 18 months
- Funding : GIS-URFIST

Thank you

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The dataset is available at <https://doi.org/10.17026/dans-xsq-bus7>

