

# Case Study – Social Sciences/Humanities

PARSE.insight workshop  
Darmstadt, 21. September 2009  
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## Why Social Sciences and Humanities?

- We assumed that their data usage and e-infrastructure needs differ from those of the hard science communities

## Why Psycholinguistics and Book Studies?

- Together, they represent the spectrum of Humanities and Social Sciences

## Psycholinguistics

- Concerned with the relationship between the human mind and language as it examines the processes that occur in the brain while producing and perceiving both written and spoken discourse

## “Book Studies”

- Developed in the 19th century as an ancillary science from the study of literature
- Media-Science, which takes part on the exploration of a cultural history of knowledge
- Traditional objects of research are ancient books, the invention of printing by Johannes Gutenberg as well as actual tendencies on the book market

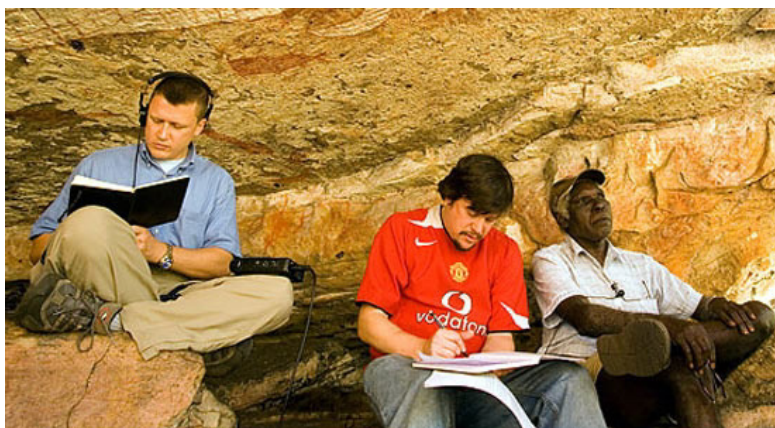
## Both communities

- work with digital objects
- are well connected
- already have a rudimentary e-infrastructure for scientific data

## Difference between the data used

- Psycholinguistics: data is created during experiments and/or observations
- Book studies: work with digitized objects provided by a third party

## Research workflow in the Psycholinguistics

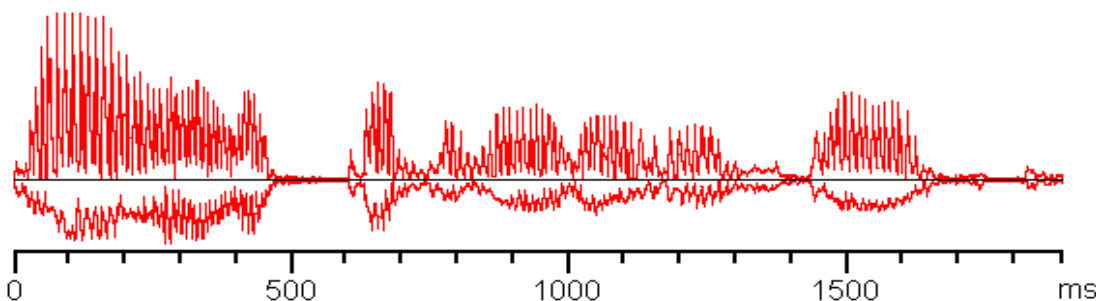


Record spoken language



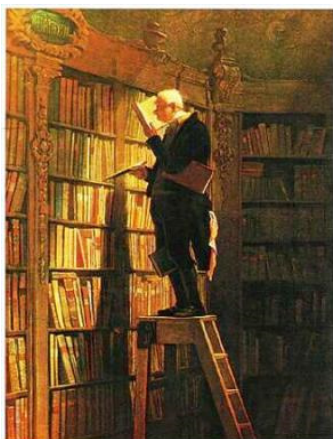
Language production research

p . . . a . . . o . . . u . . . l . . . i . . . . . k d a . . d r . . . ü . . . b m . . u n . . t s c h . . l . . ä . . . . . f . . . . . t .



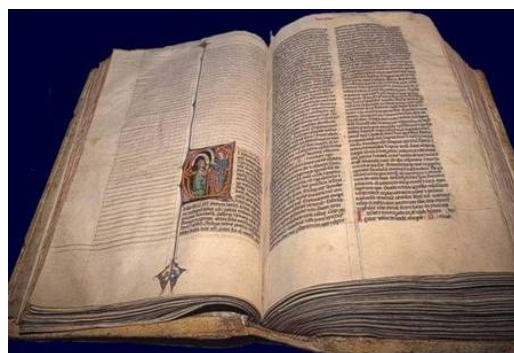
Analyse  
speech  
patterns

## Research workflow in the Book Studies

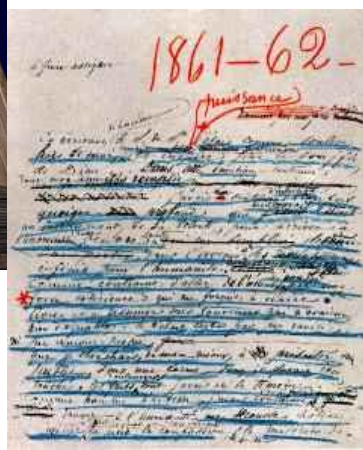


Consult sources  
in databases

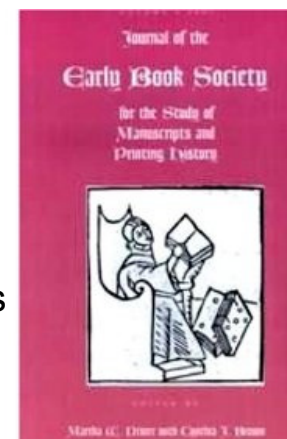
Consult sources in  
an archive/library



Hermeneutical study of sources



Publications





Both communities were surveyed in winter/spring 2009

## Psycholinguistics (PL)

- 3100 researchers
- 364 respondents
- 205 (56.3%) completed the survey

## Book Studies (BS)

- 975 researchers
- 211 respondents
- 124 (58.8%) completed the survey

# Background of Respondents

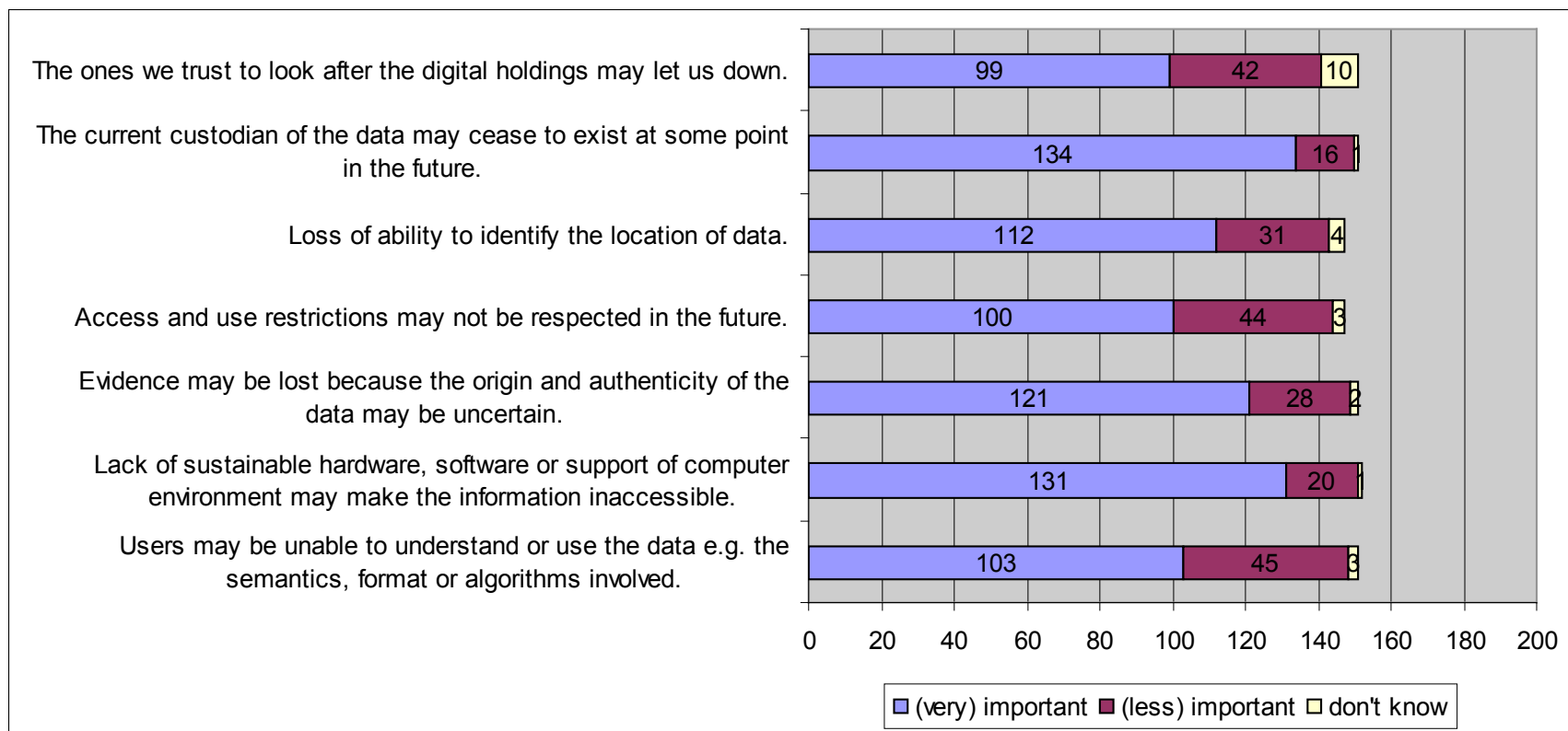
- The majority of respondents came from Europe (68% in both PL and BS)
- The largest groups were individual researchers, followed by research group leaders/managers, employees/participants of research groups, and PhD students
- PL: also data managers



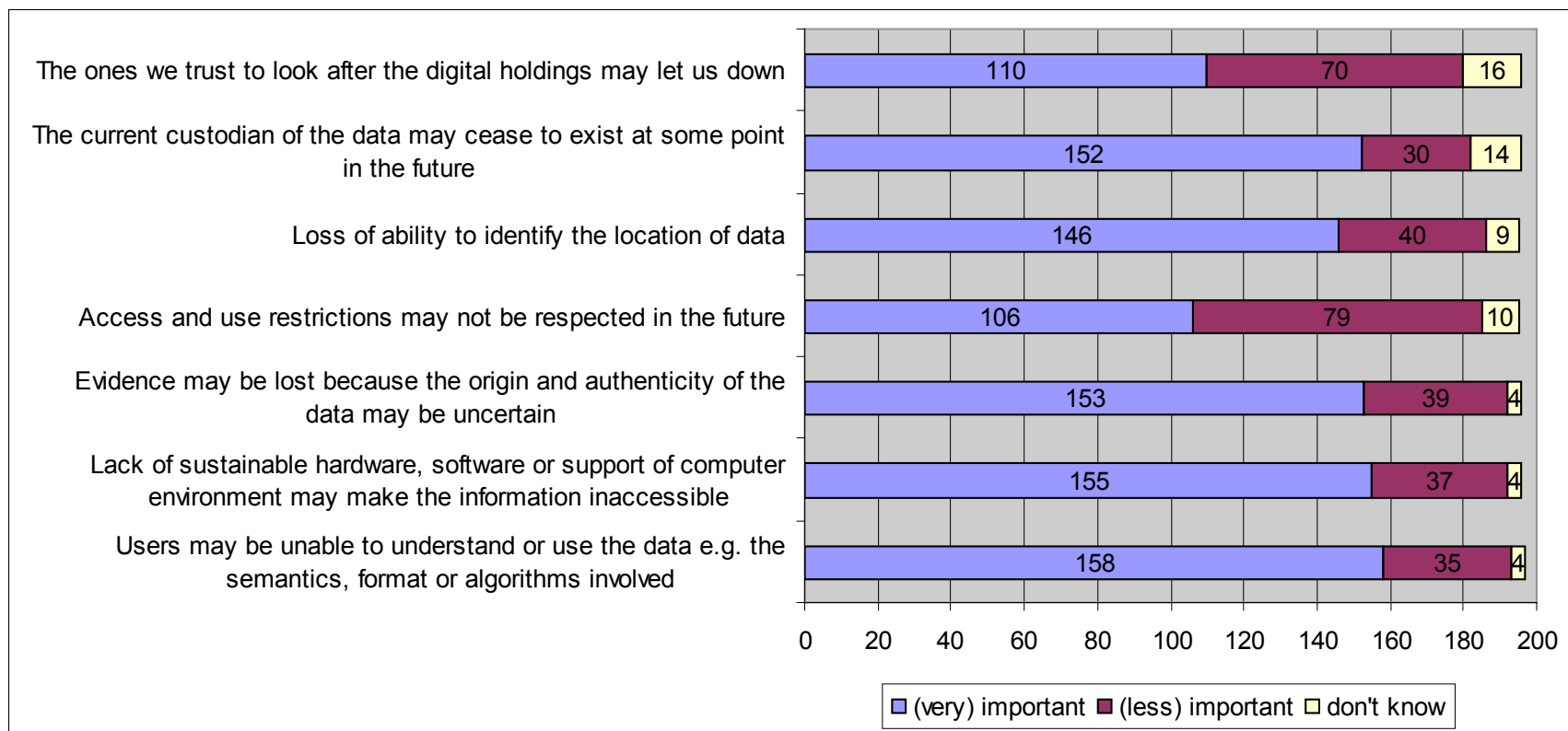
# Background of Respondents

- Large consensus that preservation of digital resources is important
- High awareness of threats to long term preservation
- BS: Concept of „digital preservation“ rather unclear to some respondents

## How important do you consider the following threats over the next 10 years?

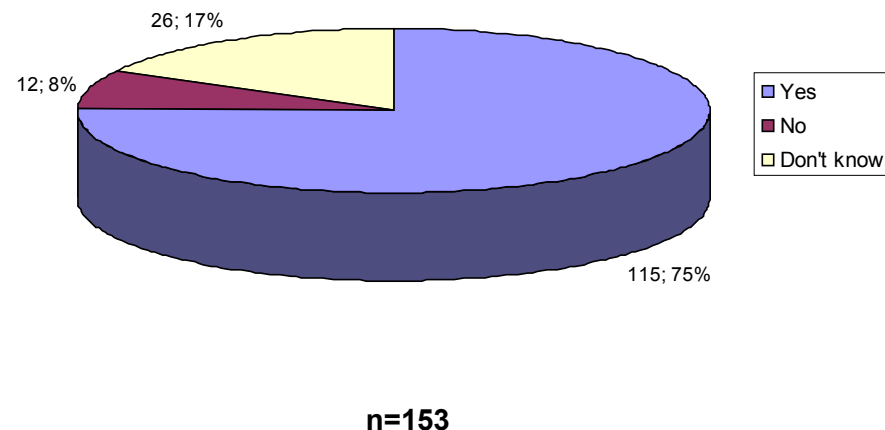


## How important do you consider the following threats over the next 10 years?

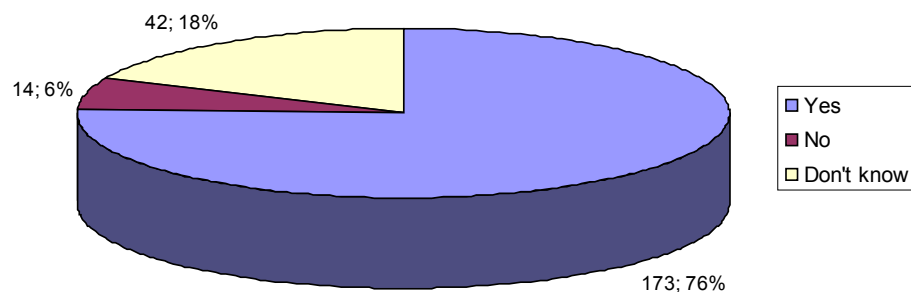


- Most respondents think that an international e-infrastructure would help guard against some of these threats

Book Studies

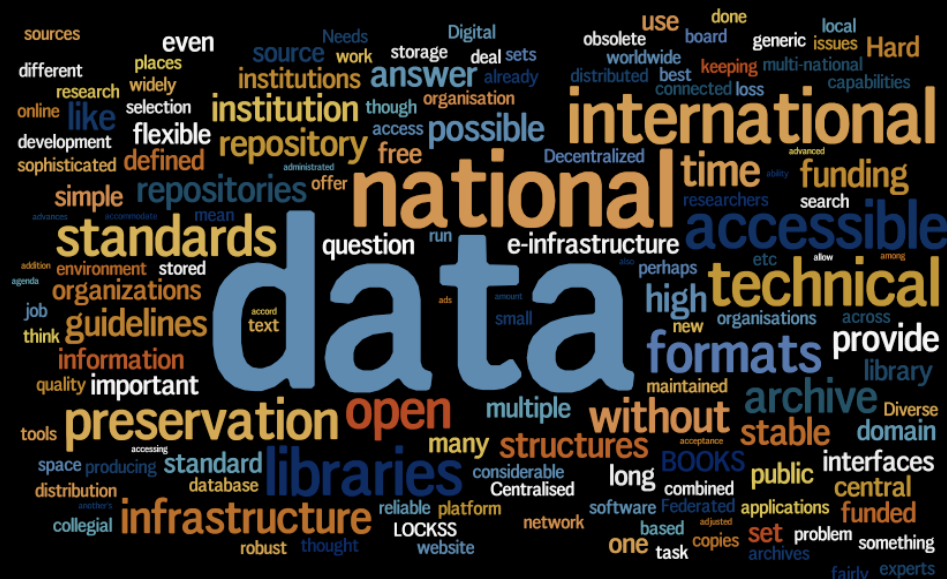


Psycholinguistics



10/1/2009

- Ideas range from centralized EU agency to completely decentralized e-infrastructure



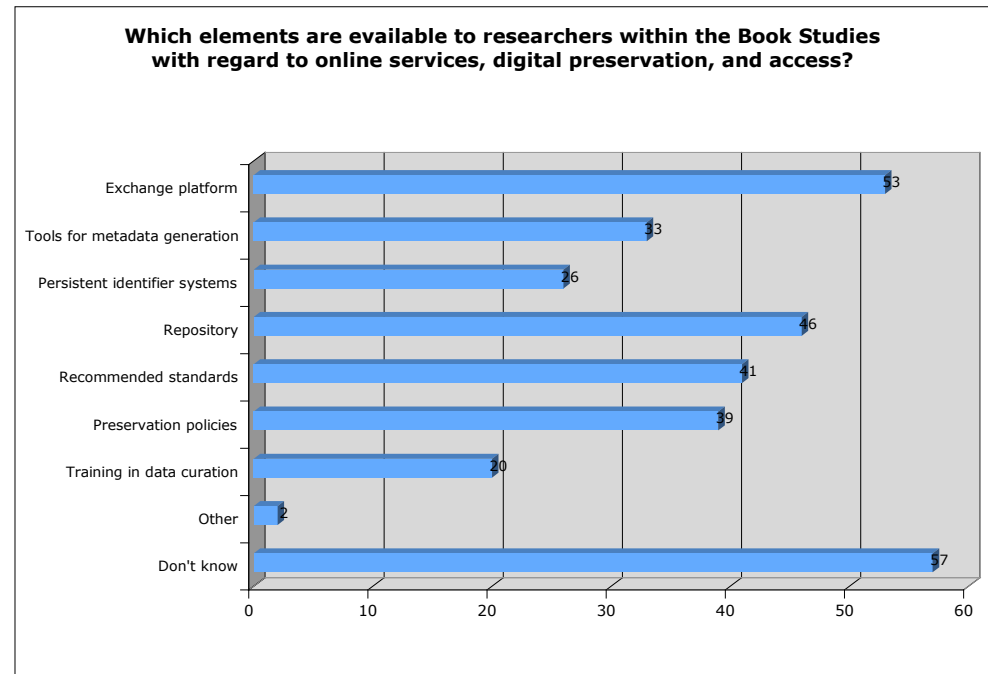
# Psycholinguistics

## Book Studies

What is already there in terms of general e-Infrastructure?

- PL: language archives, specialised databases (e.g. audio files, lexical corpora)
- BS: library catalogues, specialised databases (e.g. of manuscripts, early printed books)

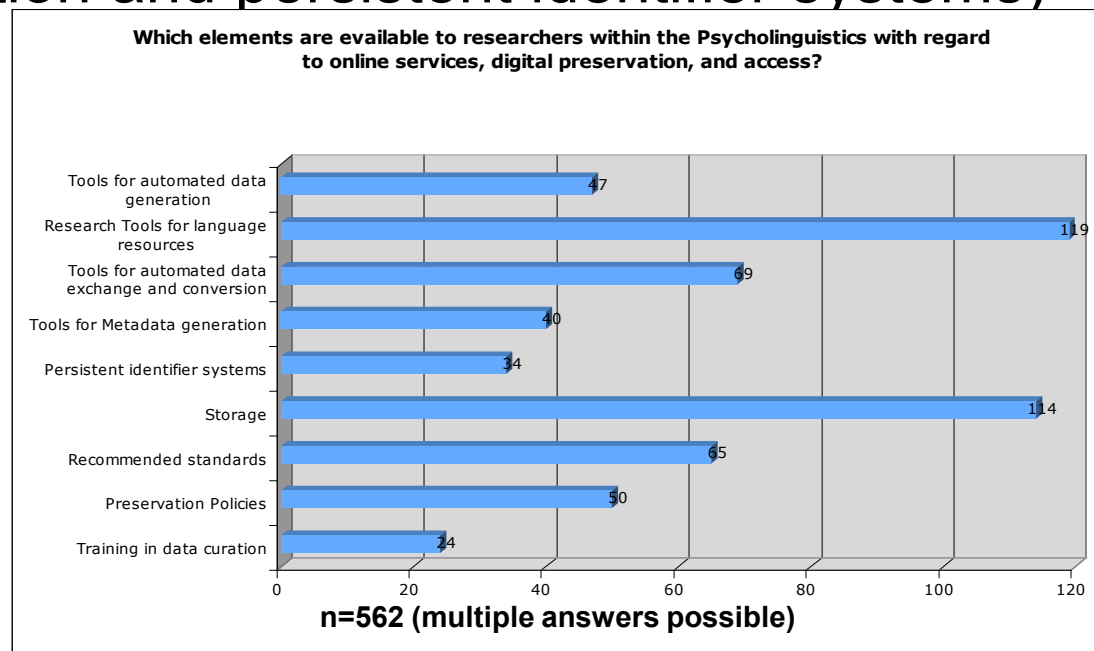
- When asked for data sharing and digital preservation specific infrastructure elements, 43% did not know what was available
- Another 59% did not know if the existing tools and elements fit their needs



n=317 (multiple answers possible)



- The Psycholinguists have a better understanding of their discipline specific digital services. They do, however, judge digital preservation related tools (i.e. for metadata generation and persistent identifier systems) little important
- Only 25% are satisfied with the existing components, 39% are not



# Data Storage BS

- Most researchers store their data on their PC at work (77%), or at home (70%), additionally on portable storage carriers (75%)
- Only few researchers submit them to a digital archive (10%) or to an external web service (11%)
- 74% were willing to use a digital archive (of their organisation), if there was one and 69% would make use of a discipline specific repository

- PC at work and at home most important data stores (95% each)
- More measures are taken to ensure that data is not lost:
  - 89% submit their data to an external web service
  - 87% store their data additionally on a server of their organization
  - 80% make use of an internal data archive, and 78% of an external data archive

- Greater acceptance and open-mindedness towards digital publications than we assumed
- General awareness of importance of digital preservation, but no connection to own work (yet?)
- In the interviews, importance of cross-discipline infrastructures was emphasised (need to make use of materials from other disciplines)
- Uncertainty of responsibility for and funding of e-infrastructure

- Use of digital services as a matter of course in the research process
- Still, 54% think existing components and services need to be improved
- Especially, training in data curation is missed
- A couple of e-infrastructure projects address the felt deficits: DOBES, CLARIN, DARIAH, CESSDA, ...

**Thank you very much for your attention!**