



Caring for data to shape the future

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People ask:

What is DARIAH? What is an infrastructure? And a Research infrastructure? What is it for?

As we explain what it is and how it can be useful to them, then they say:

Ah! OK! And what can we find at DARIAH? And then how can we use it? What is it for us?



**DARIAH is a special platform where knowledge
comes together, happens and
is shared.**



1. Shaping new approaches to data management in arts and humanities with a really old approach - training

KNOWLEDGE CREATION PARADIGM



Data curation &
preservation

Research

Creation

Learning &
Training

Share & Reuse

IS CONSTANTLY CHANGING



Data curation &
preservation

Digital | Crowdsourcing
| Storage | Ontologies

Research

Live data |
Reusable

Creation

Data | Big Data
| Business models

Learning &
Training

Collaborative | Real
context - based

Share & Reuse

Outputs | Data |
Processes |
Methodologies

Data and challenges and responsibilities of the digital humanities

- A. Awareness and training
- B. Digital heritage
- C. The frightening and overwhelming loss of digital heritage
- D. Preservation of digital heritage
- E. Organization of digital heritage
- F. Collaborative work
- G. A cultural change



A. Awareness and training

DIGITAL SKILLS & TRAINING

CHALLENGES



"After careful consideration of all 437 charts, graphs, and metrics,
I've decided to throw up my hands, hit the liquor store,
and get snockered. Who's with me?!"

SOURCE: <http://www.equest.com/cartoons/cartoons-2013/big-data-dashboard-dizziness-a-trendy-tool-with-little-utilization/>

DESIR Survey: main results

95% of the respondents use any type of digital tools to disseminate their work.

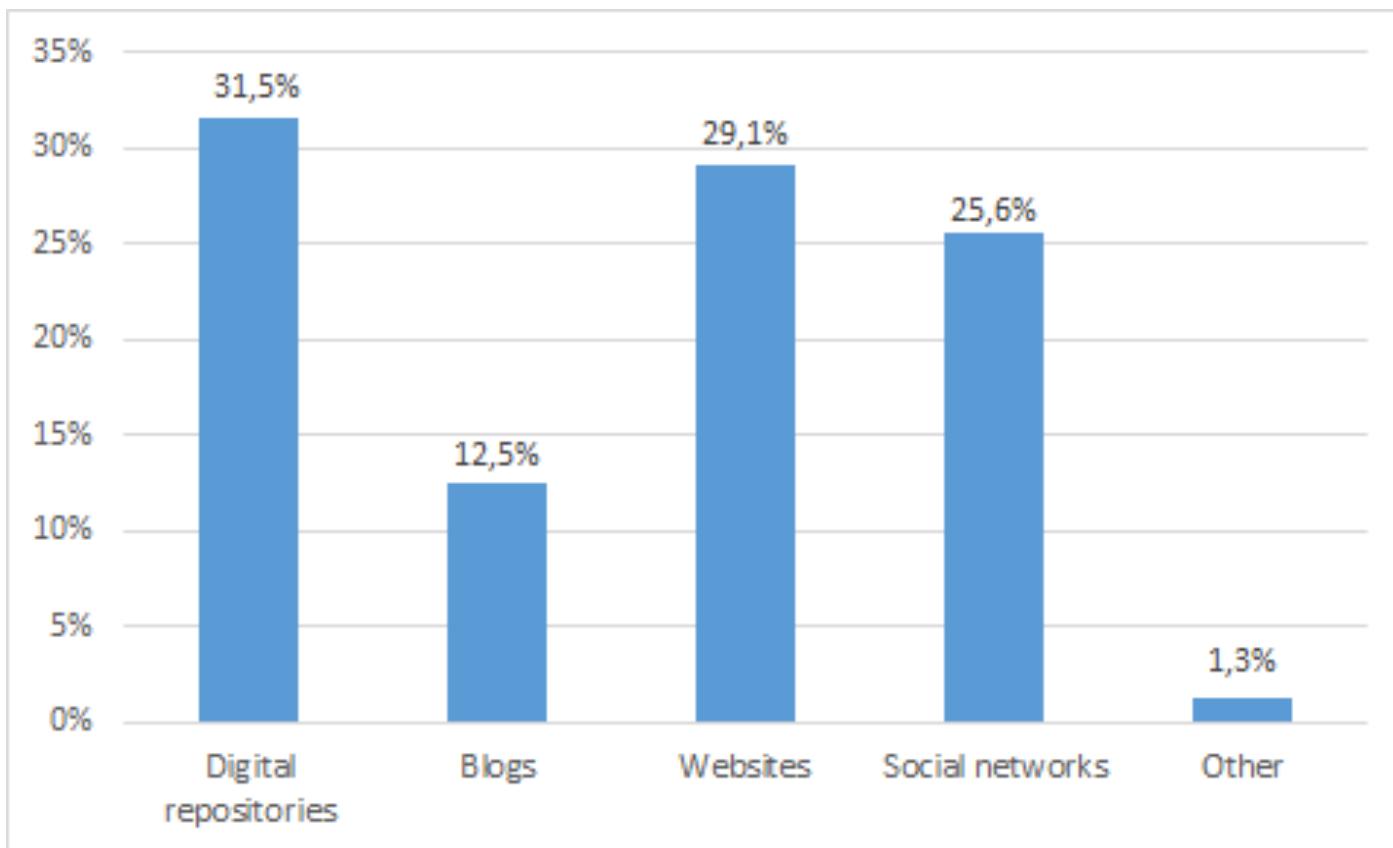


Figure 1. Digital tools used to disseminate the work

Digital infrastructures are particularly used in the first phase of the research.

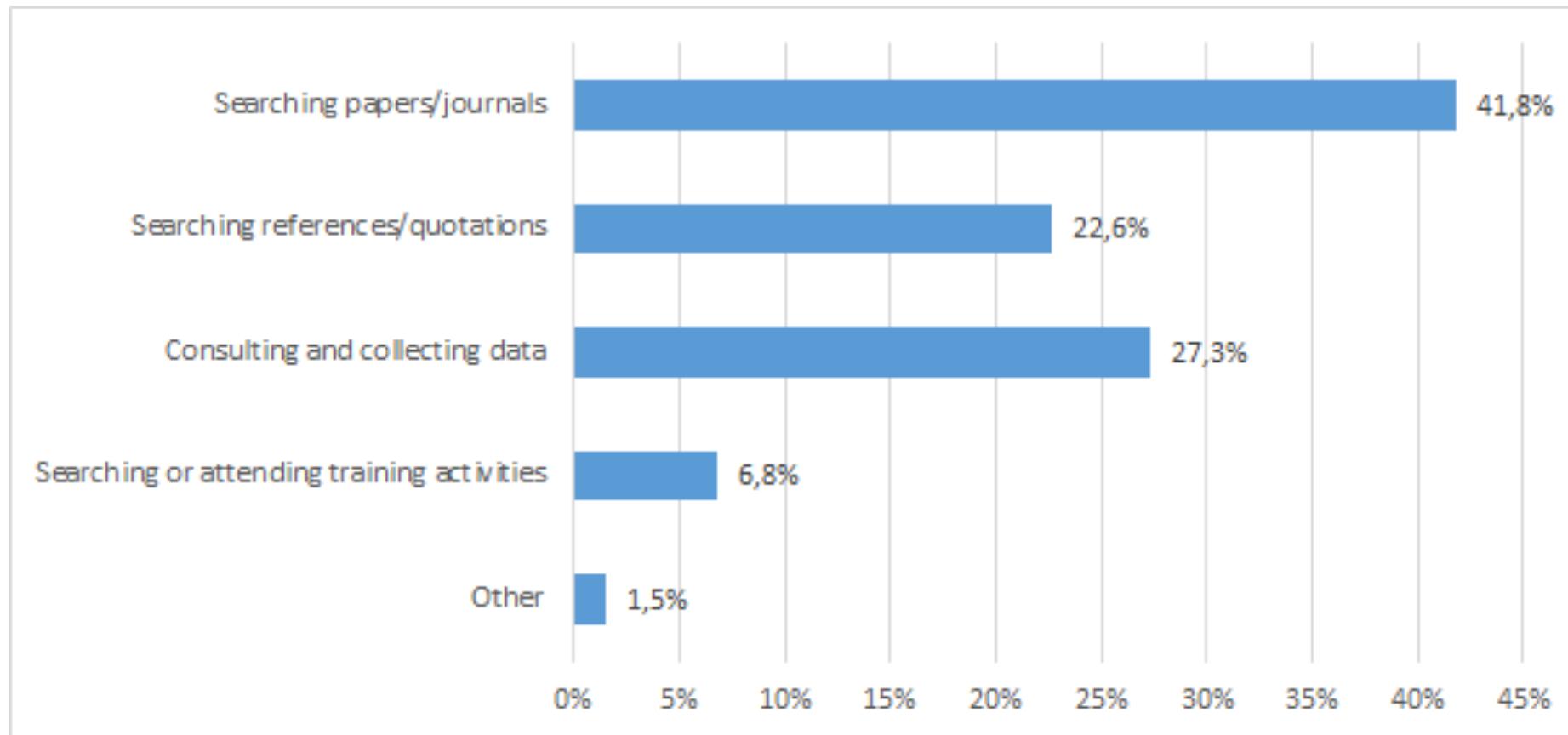


Figure 2.
Purpose using
DH
infrastructures

- Around 60% are users of digital humanities;
- Most of them (44%) use more than one DH infrastructure.

What distinguishes Digital Humanities *users* from *non users*?

	USERS	NON-USERS
Age	Older researchers	Younger researchers
Academic degree	PhD degrees are more frequent	PhD degrees are less frequent
Professional activity	Higher % of teachers	Higher % of students
Cross-disciplinarity	More frequent	Less frequent
Provision of research under open access	More frequent	Less frequent



B. Digital Heritage

Charter on Conservation of Digital Heritage

It was defined what was meant as digital heritage: unique resources of human knowledge and expression, whether cultural, educational, scientific or administrative, as well as technical, legal, medical and other kinds of information created digitally, or converted into digital form from existing analogue resources (<http://portal.unesco.org>).

It added that digital documents could cover a wide and increasingly diverse range of formats, such as texts, databases, still and moving images, audio, graphics, software and web pages, which are often ephemeral, thus requiring specific actions of maintenance and management since its inception.

DIGITAL HERITAGE



Risks

Digital | Crowdsourcing | Storage | Ontologies



New legacies

Preserve information resources and creative material produced digitally



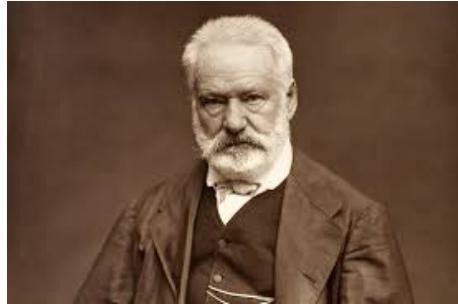
Vulnerability and ephemerality



Collective commitment

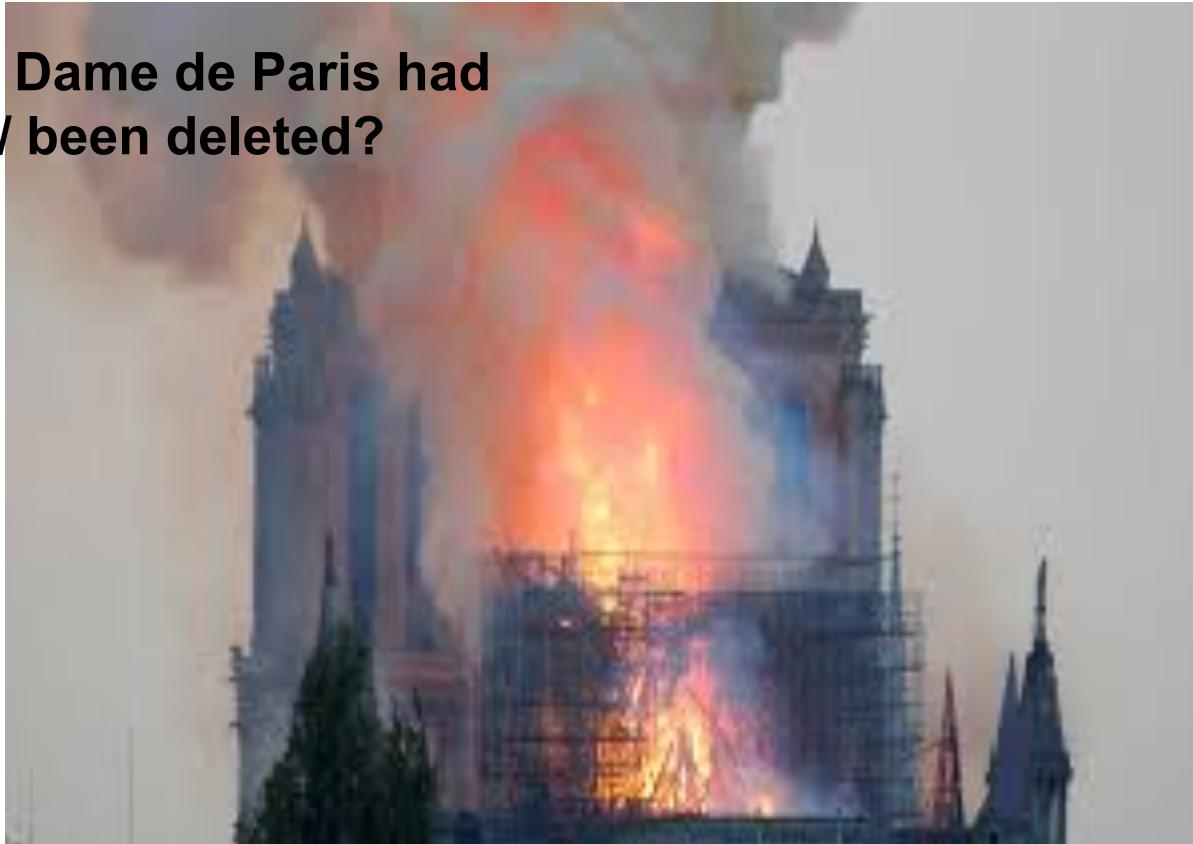
Responsibility in preserving digital heritage for future generations

- Sales of *The Hunchback of Notre-Dame* book shoot in France after cathedral fire
- Victor Hugo's book leads Amazon platform sales ...



True or false?

What if Notre Dame de Paris had disappeared / been deleted?



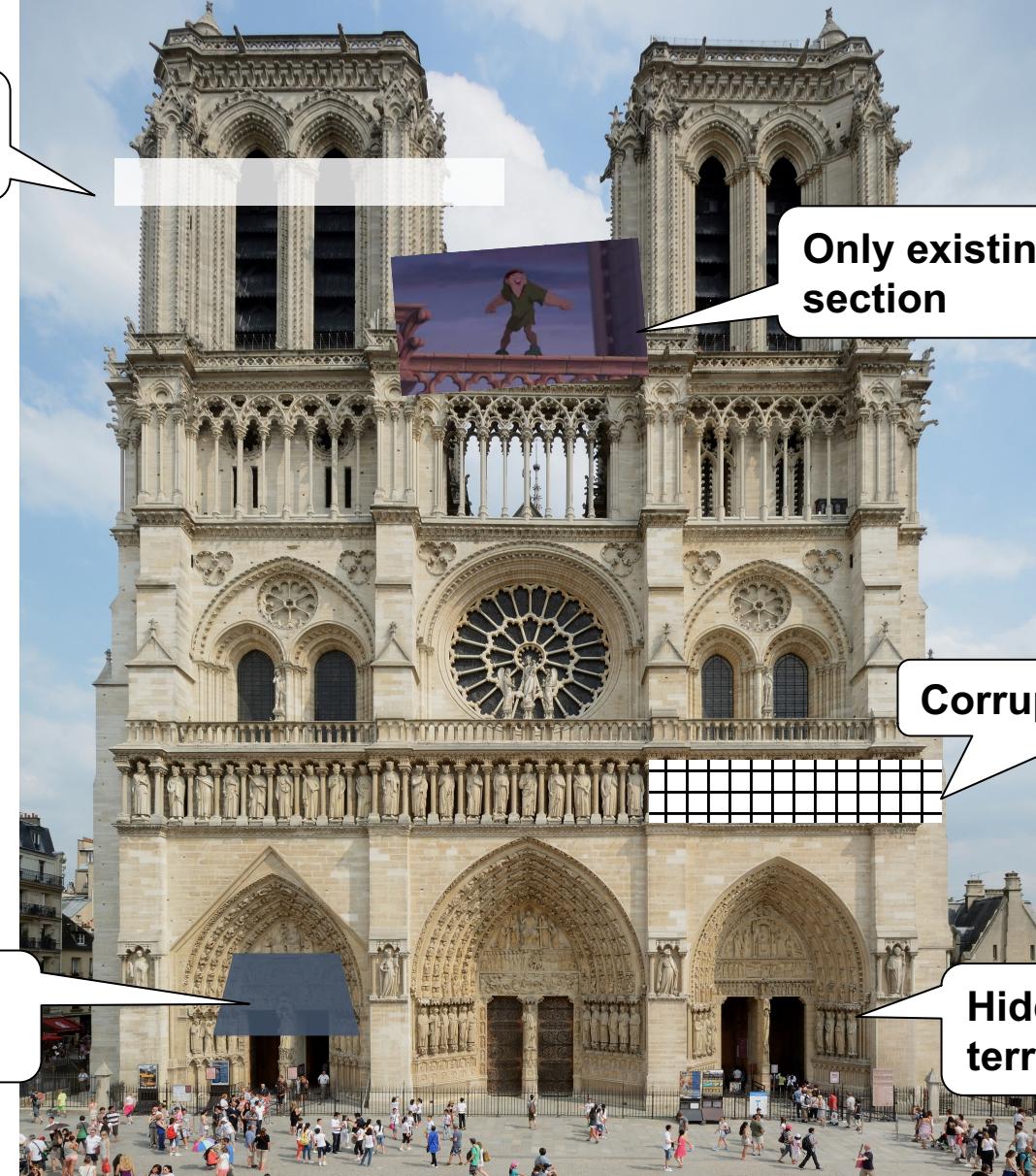
It was to save the heavily degraded monument that the writer began writing *The Hunchback Notre-Dame de Paris*

13 billion visitors per year on site and on digital media?

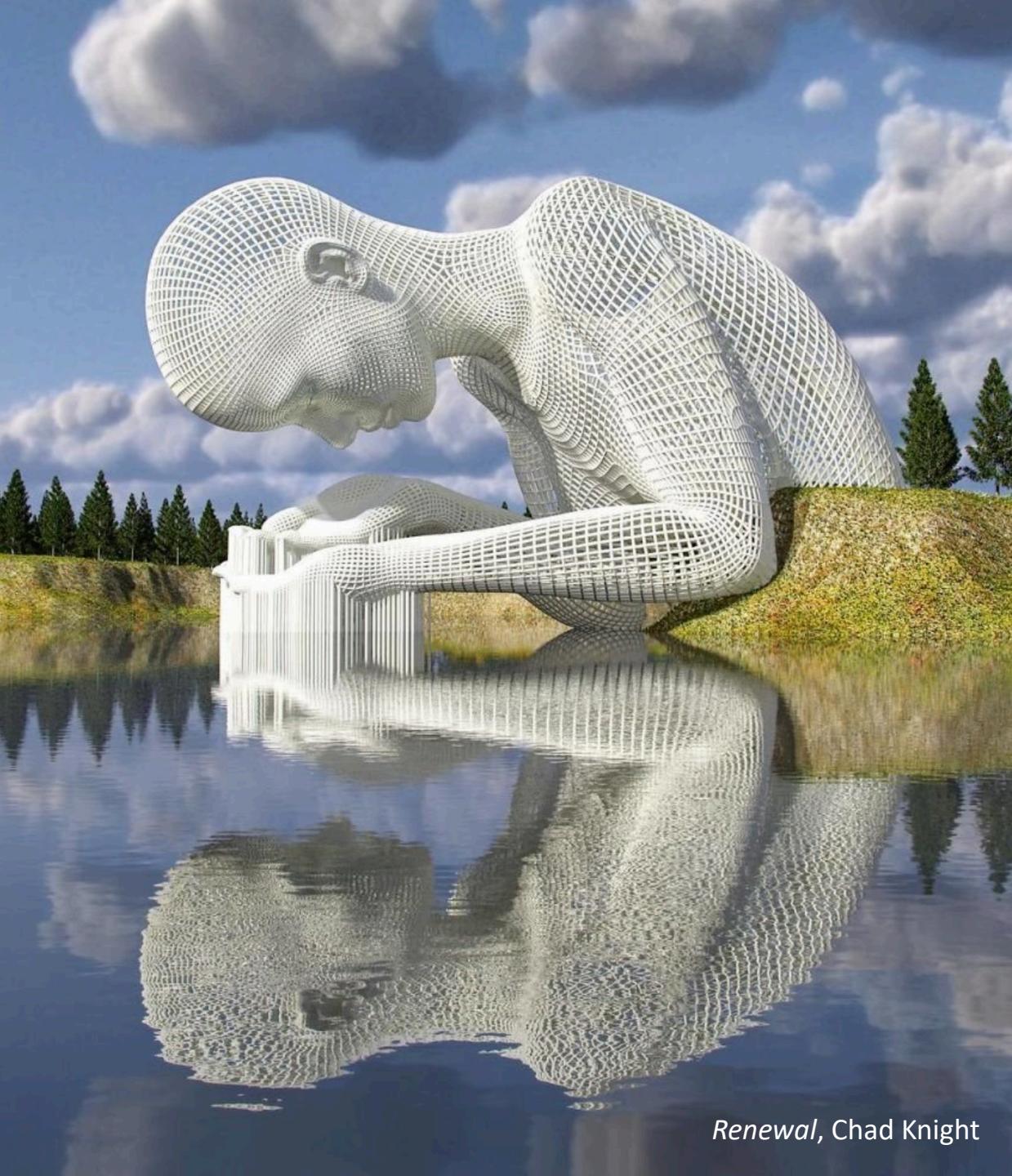
Some new cathedrals / heritage forms are digital ...

The World is prepared to show, explain, study, rebuild.... Digital Heritage?

Do we master the stored information? Is reliable what is published? And what is not 800 years old and every day happens, is created, invented?



DIGITAL SCULPTURE



Renewal, Chad Knight

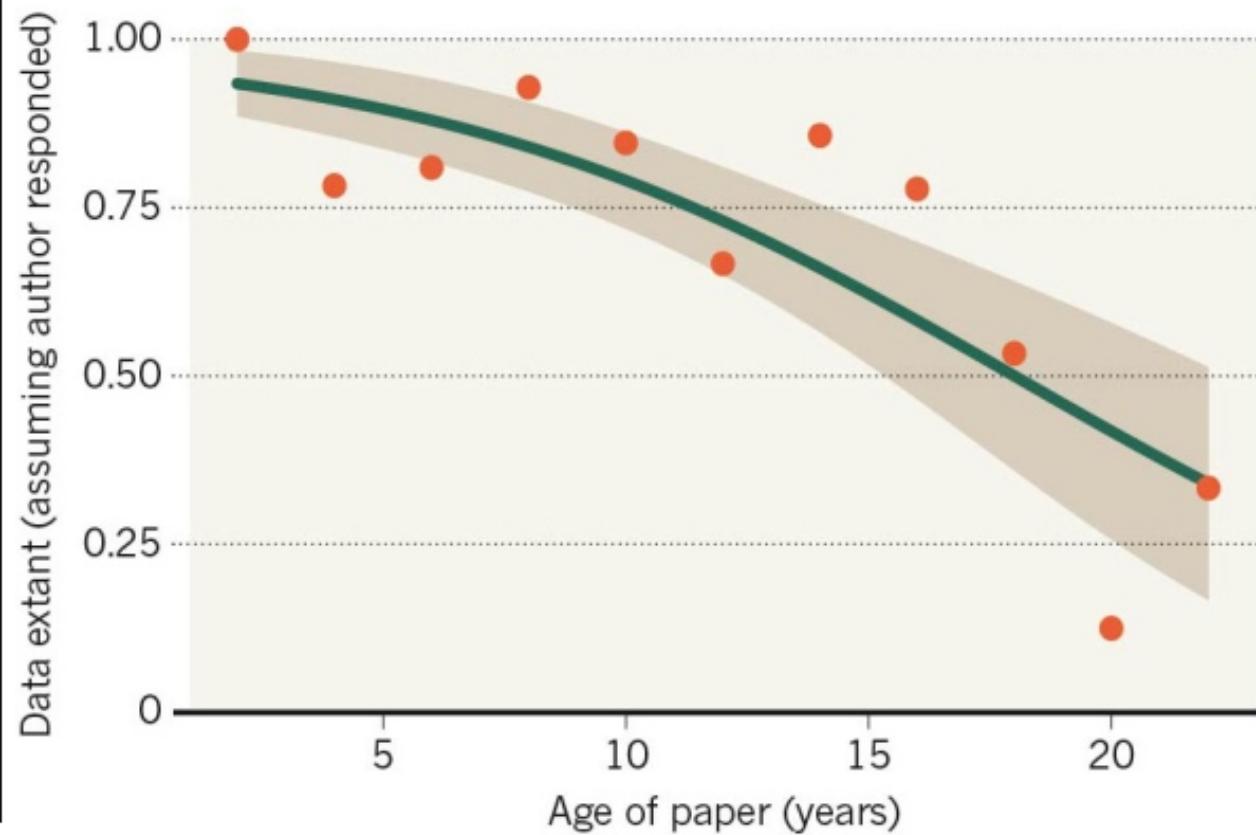


C. The frightening and overwhelming loss of digital heritage

DIGITAL HERITAGE LOSS

MISSING DATA

As research articles age, the odds of their raw data being extant drop dramatically.



SOURCE: "Scientists losing data at a rapid rate", in Nature News, 19/12/2013
<https://www.nature.com/news/scientists-losing-data-at-a-rapid-rate-1.14416>



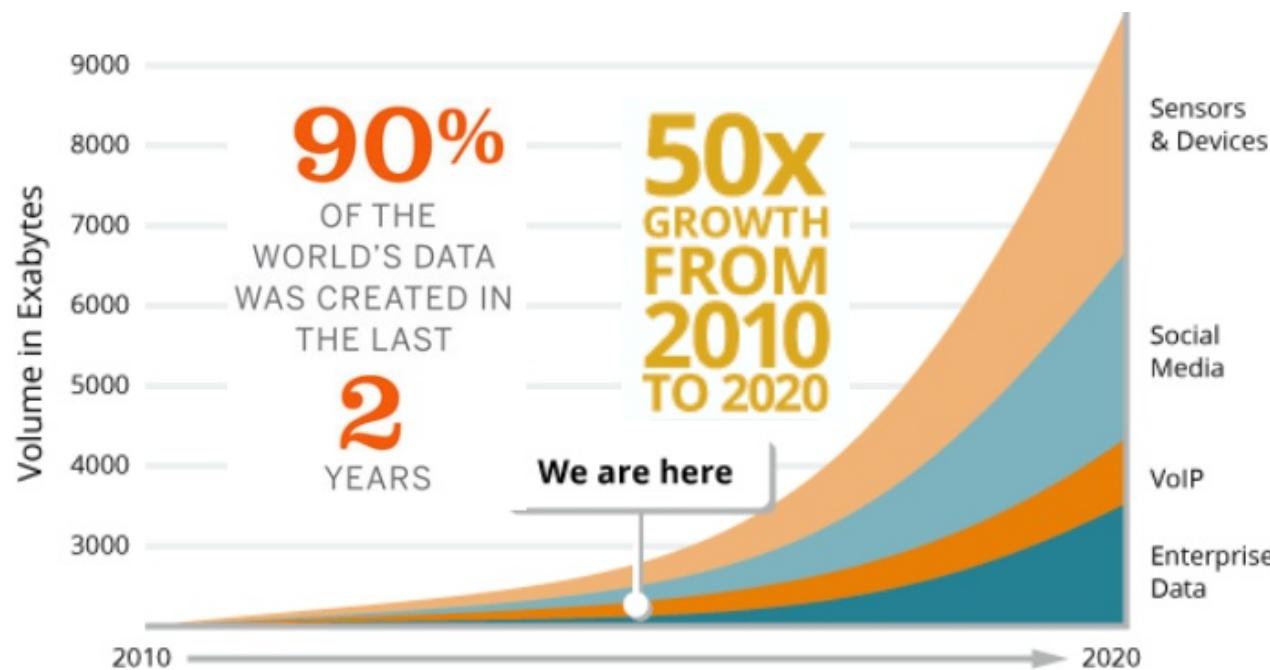
D. Preservation of digital heritage



E. Organization of digital heritage

F. Collaborative work

FROM DATA TO BIG DATA



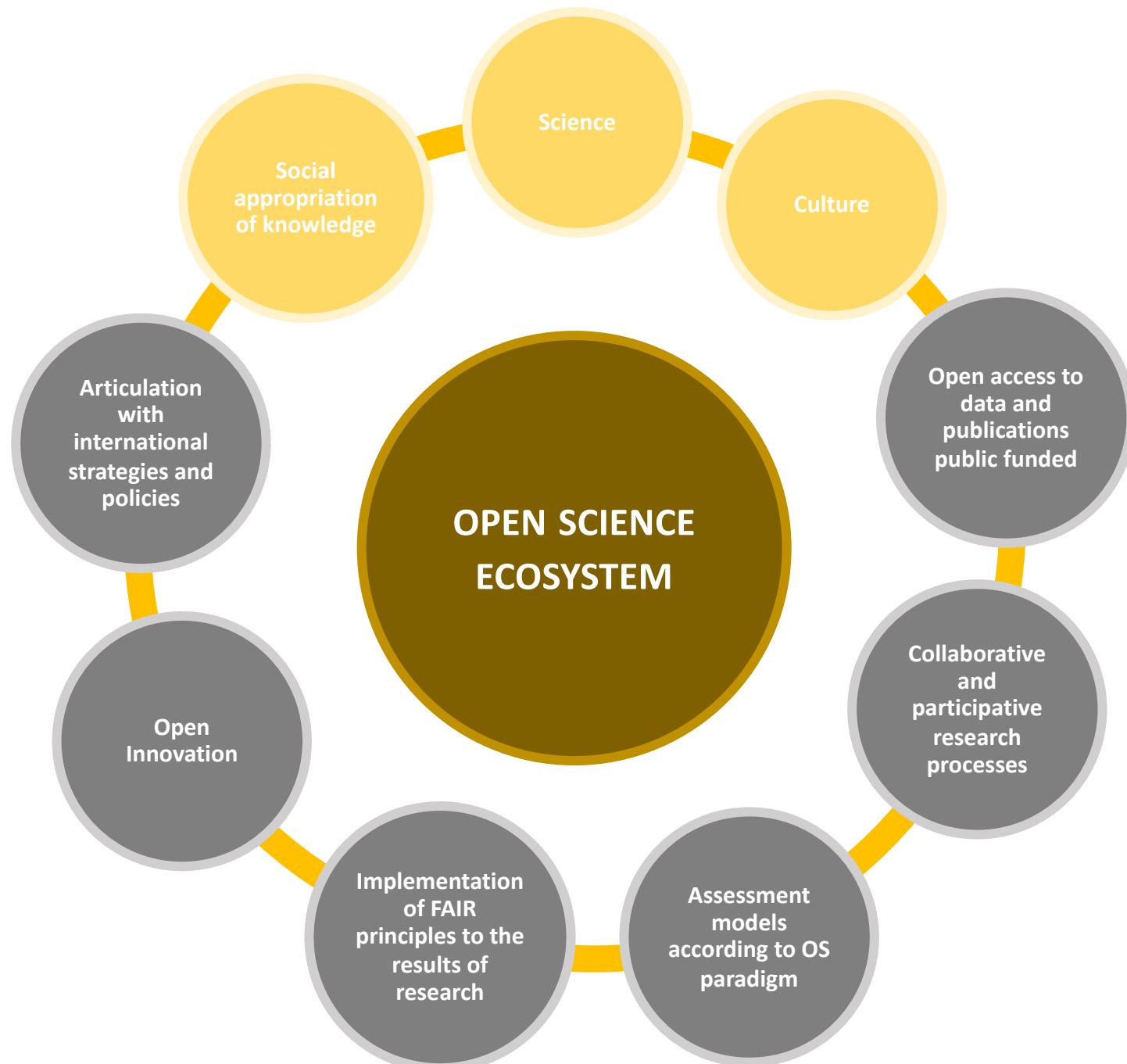
SOURCE: <https://www.slideshare.net/sfamilian/working-with-big-data-jan-2016-part-1>



G. Cultural change



2. Preserving information, sharing knowledge, democratizing access – Open Science



OPEN SCIENCE PILLARS

Open access: publications and data

Repositories | Repository Directories

Shared infrastructures | Shared networks

Common Networks | European Open Science Cloud

Open Research | Open Innovation

Participatory and collaborative knowledge | Co-creation - co-production

Citizen Science

Co-accountability

Science for Society

Source: <https://www.ciencia-aberta.pt>

