Emmanuelle Bermès

Juin 2023

WORLD
KNOWLEDGE
DIALOGUE
2023

Montreux

26-27 June 2023

CHANGE IN HERITAGE INSTITUTIONS

Financing and governance in the digital age
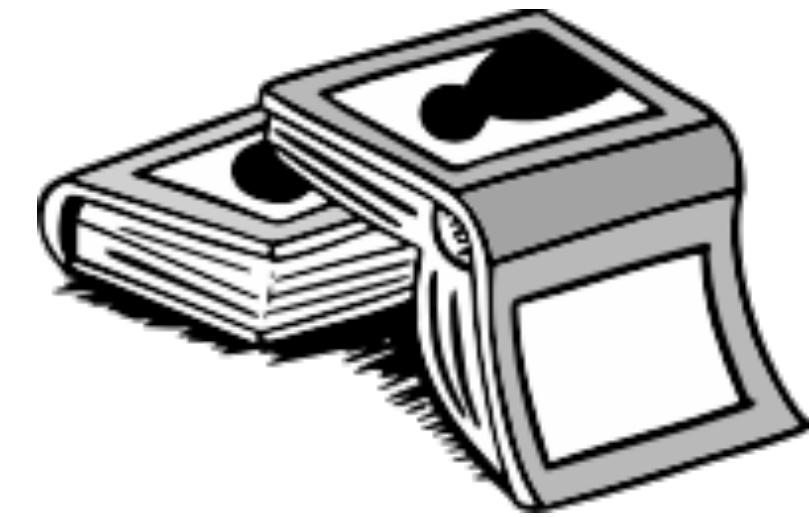
Europeana : 10 million digitized items

Internet Archive : 815 billion archived web pages

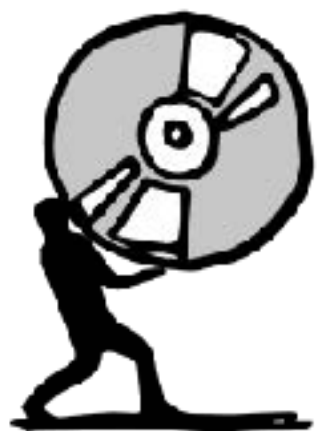Hathi Trust : 17 million digitized items

COLLECTIONS AS DATA

Google Art project : 2000 partner museums

Gallica BnF : 10 million digitized items
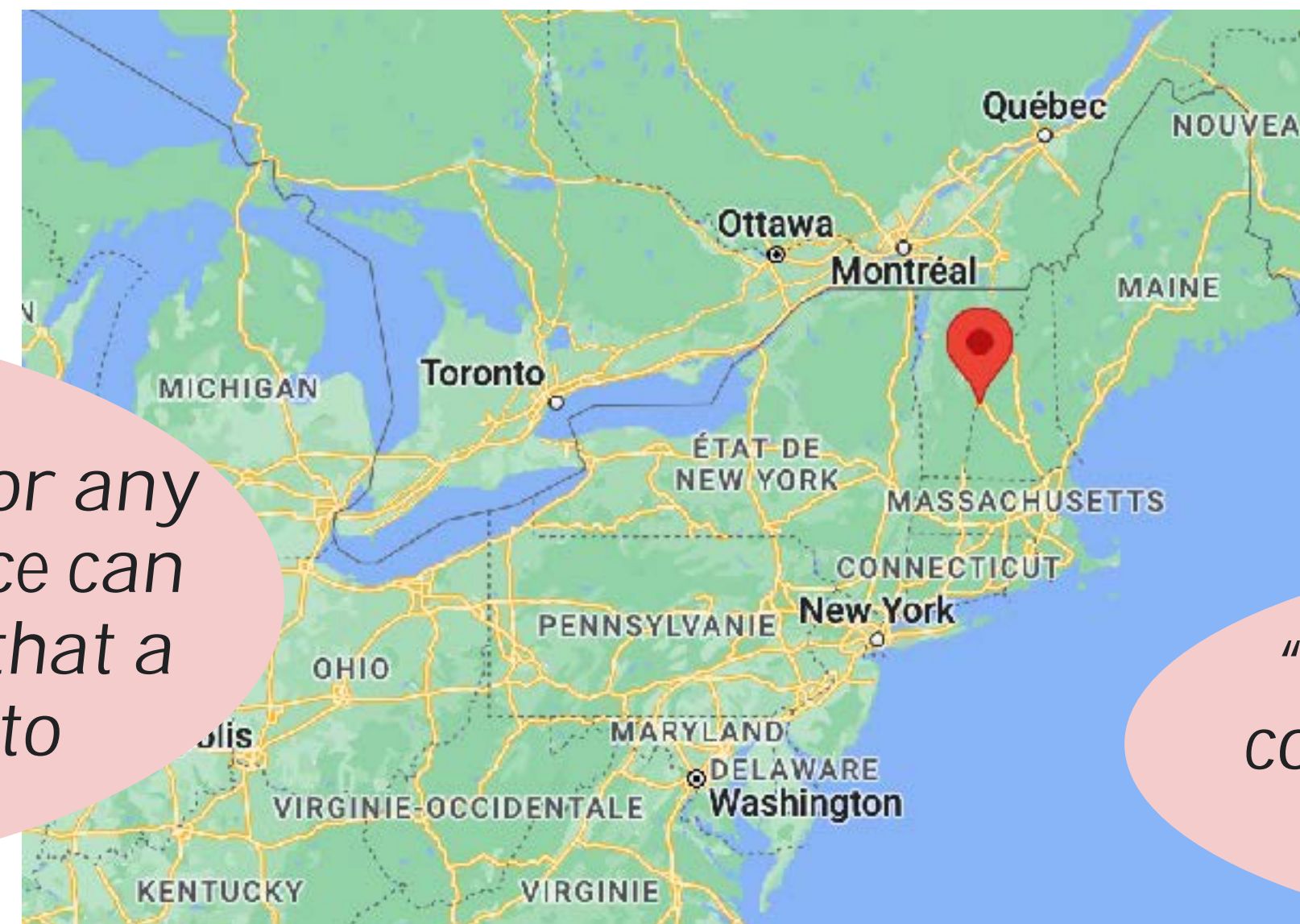
ASSUMPTION

« Artificial intelligence is a field of IT research which aims at simulating human cognitive functions. »

1956

Dartmouth Workshop

Hanover, New Hampshire, USA

"Every aspect of learning or any other feature of intelligence can be so precisely described that a machine can be made to simulate it."

"Within ten years a digital computer will be the world's chess champion."

TALKING / WRITING

THE TURING TEST (1950)
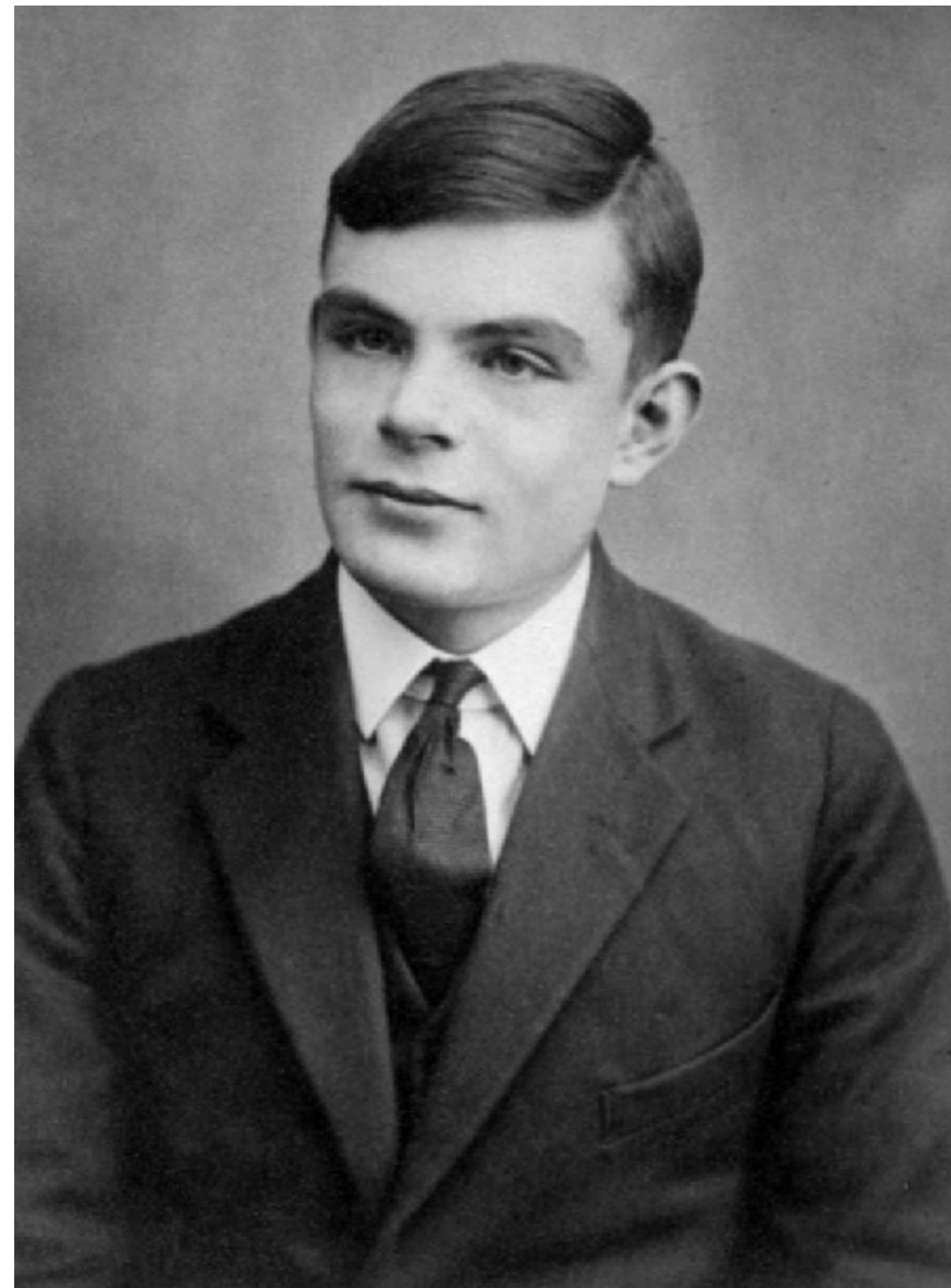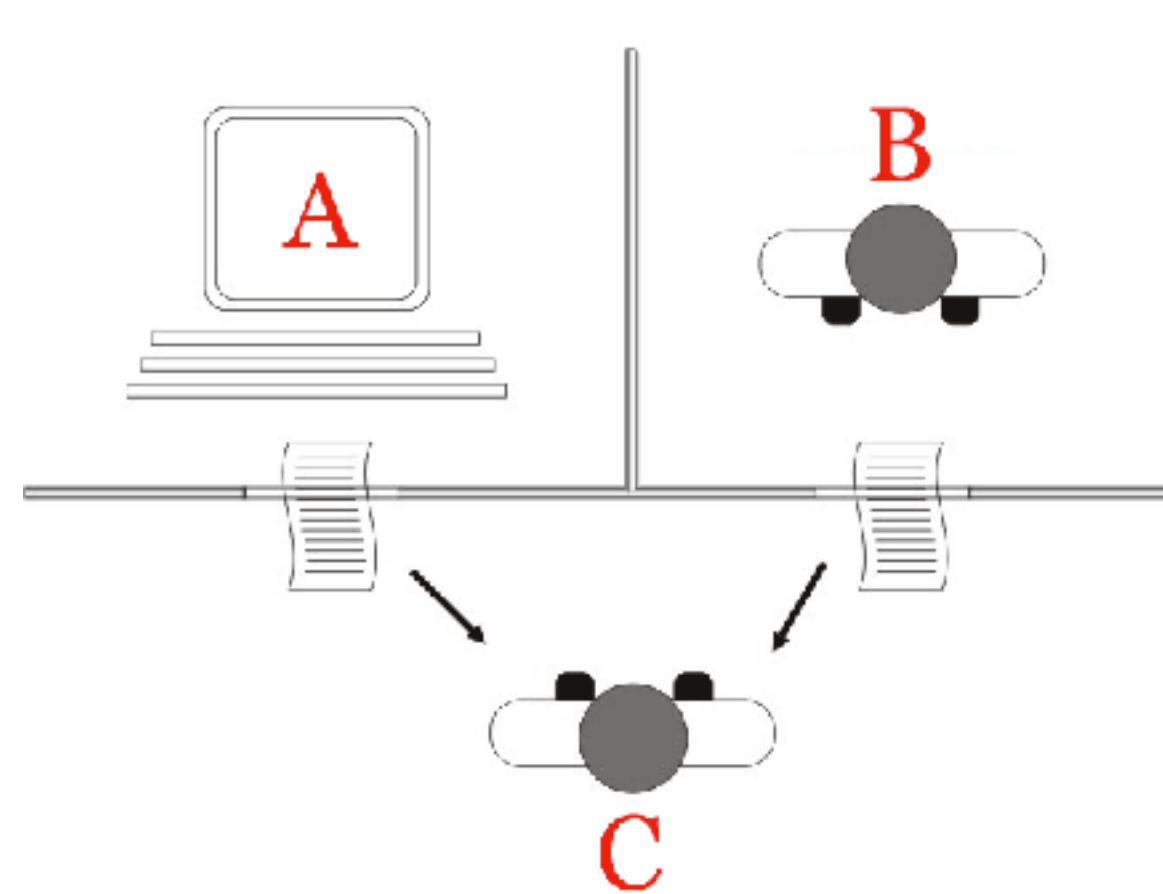
2011

2014

2017

2022

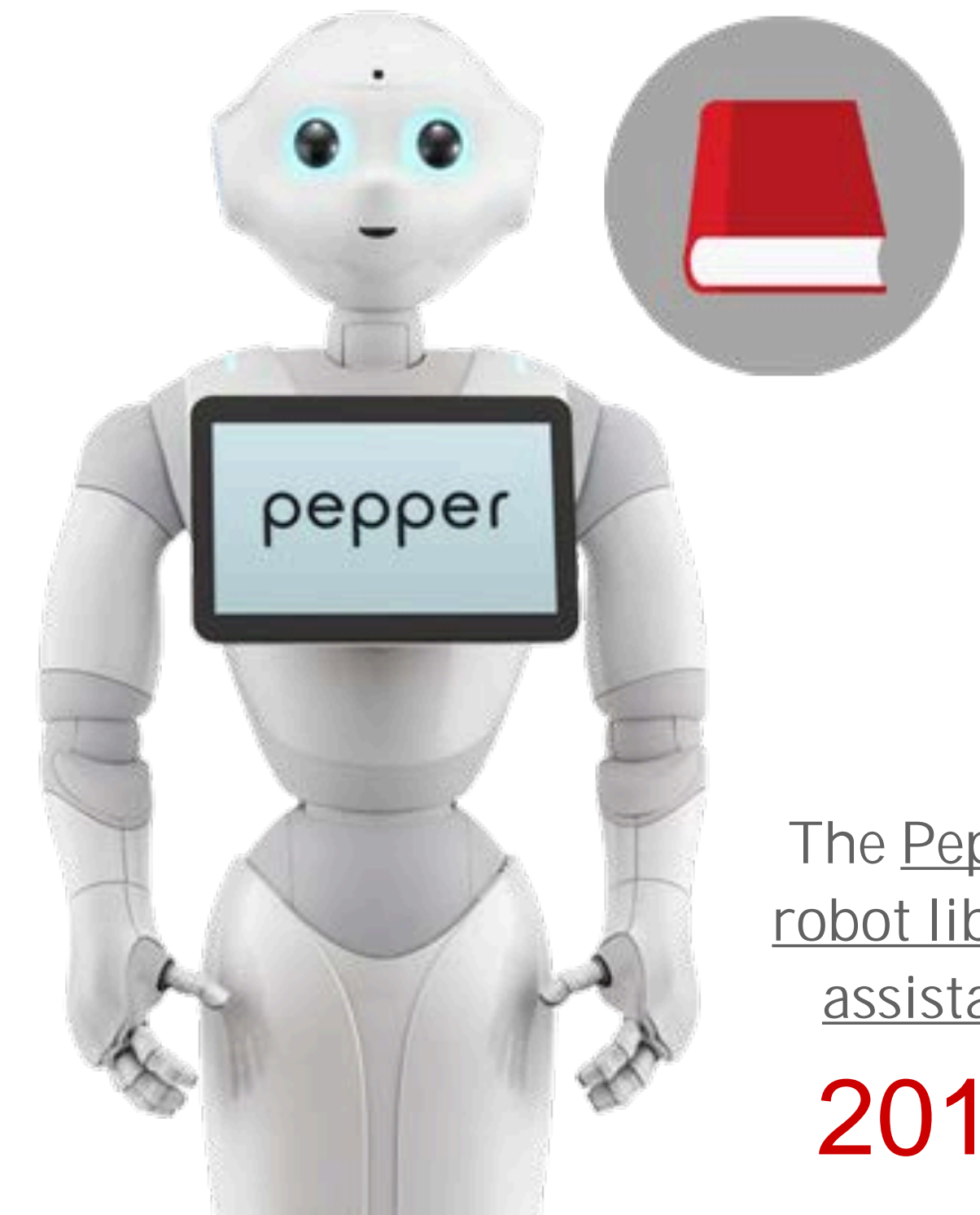Siri (Apple)

Alexa
(Amazon)

Google Home

Chat-GPT
(OpenAI)

"Computing Machinery and
Intelligence", *Mind*, 1950

The Pepper
robot library
assistant

2017

Juan Alberto Sánchez Margallo - https://commons.wikimedia.org/wiki/File:Test_de_Turing.jpg
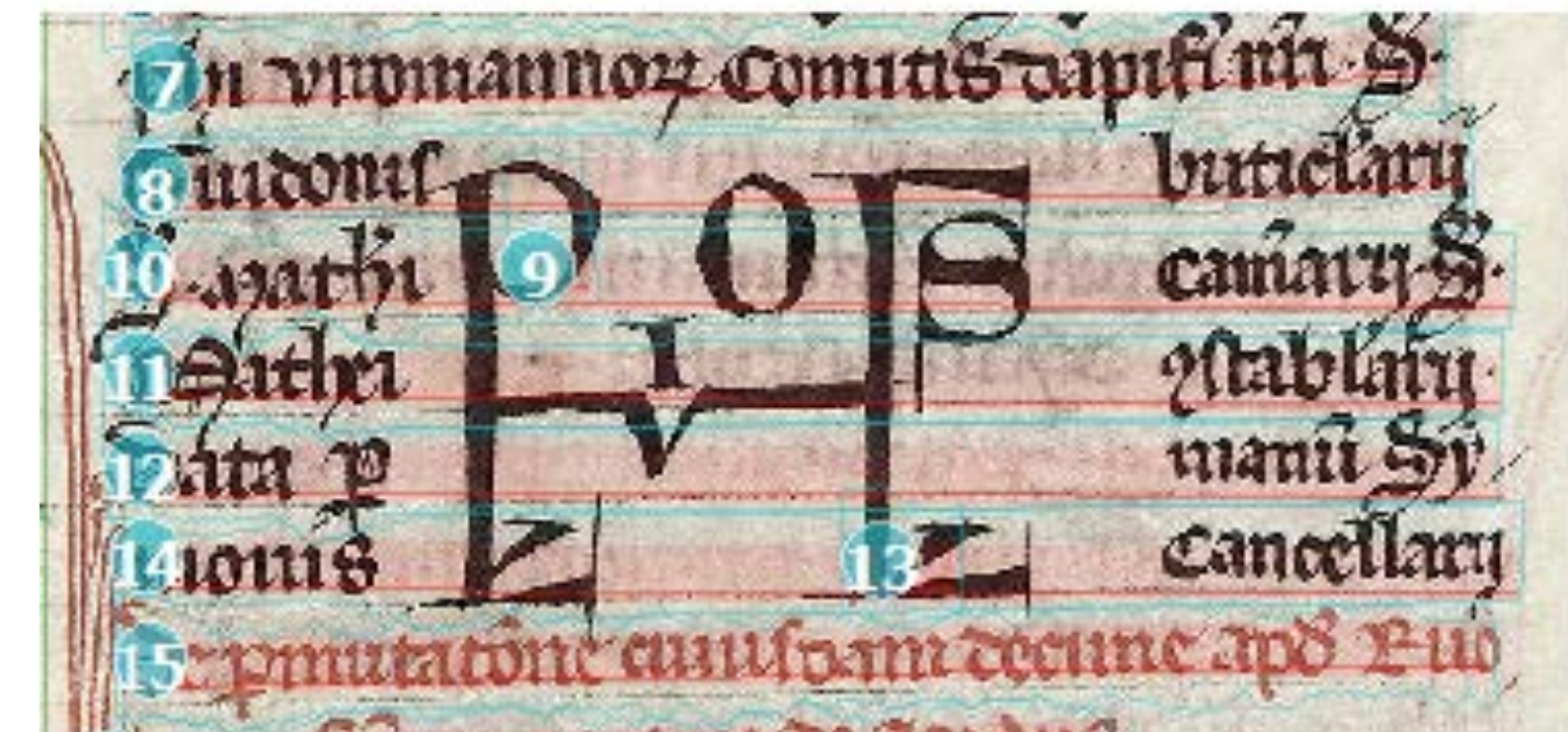
READING

MANUSCRIPTS, ARCHIVES
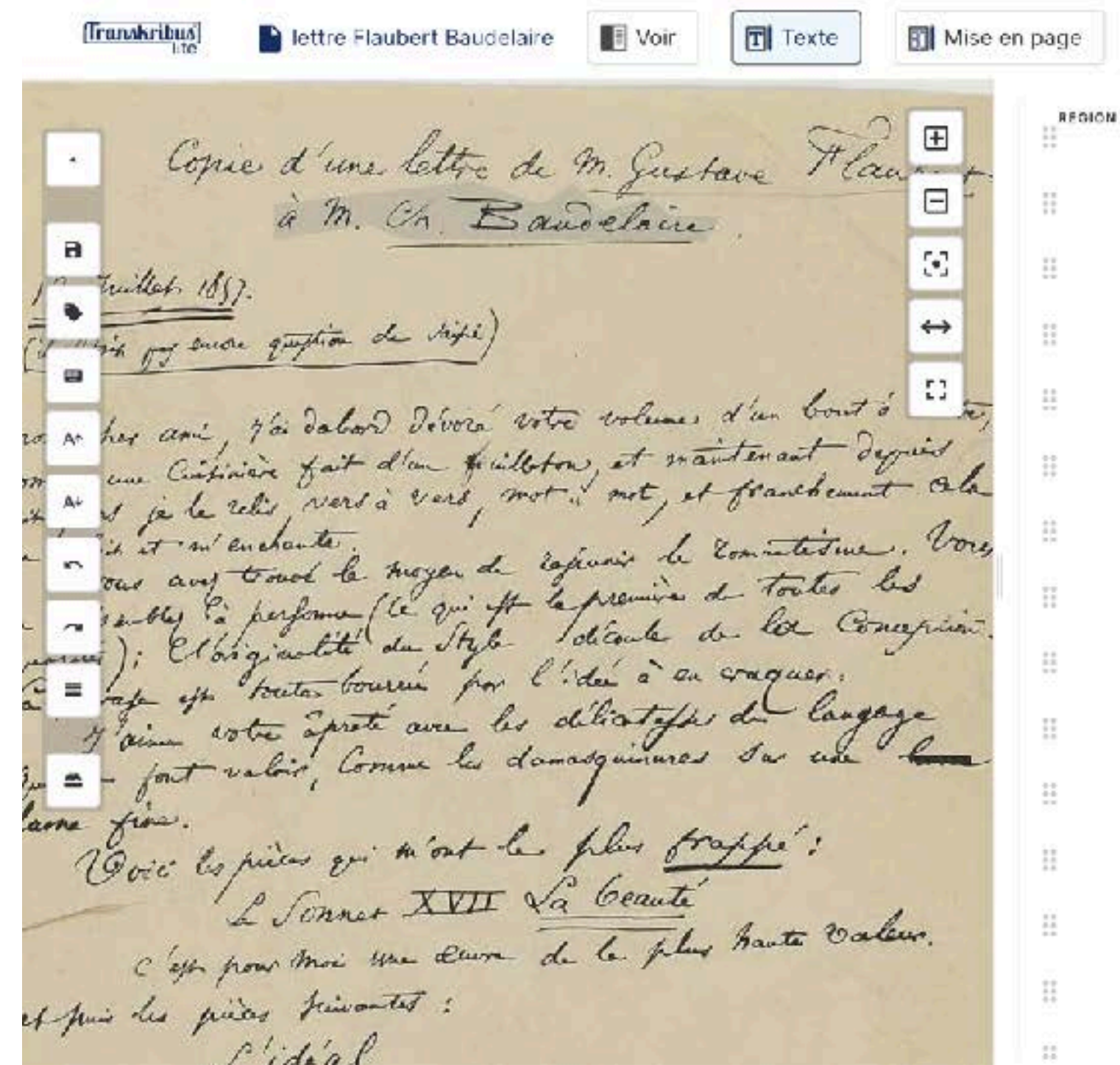
Exemple de transcription d'une lettre de Flaubert avec Transkribus

➡ *Ever more text ?*

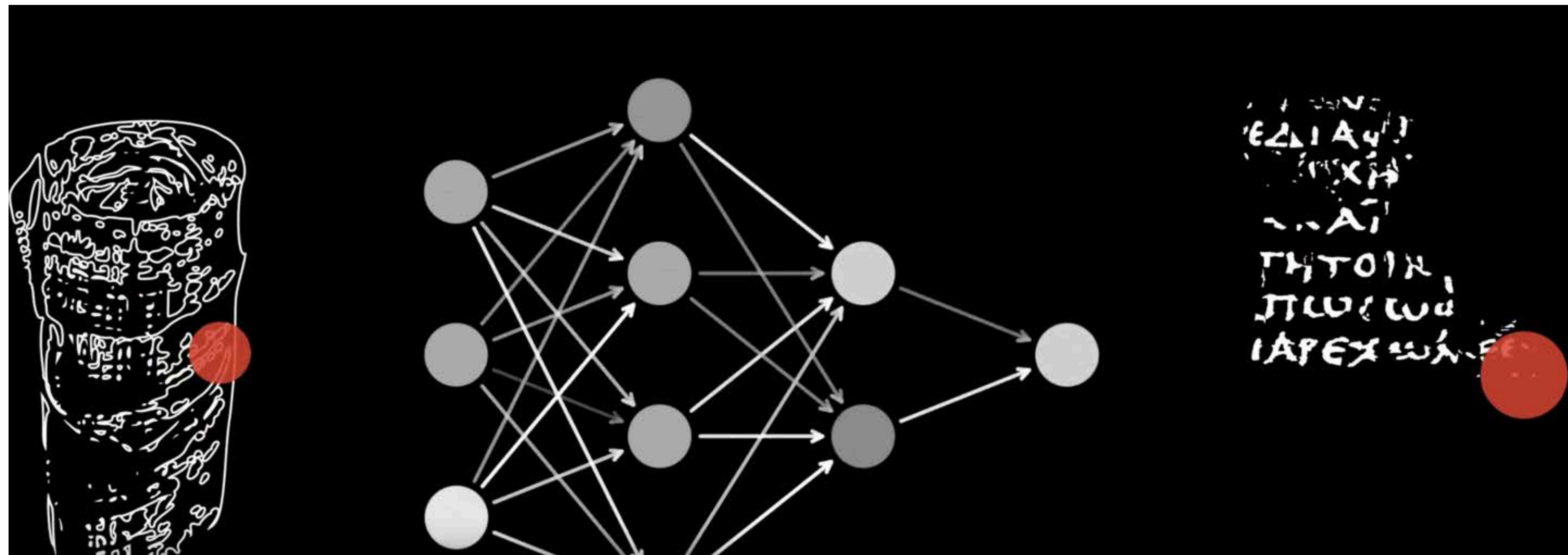*Exemple de correction manuelle de la segmentation d'un manuscrit médiéval.*
Source : https://himanis.hypotheses.org/

ARCHAEOLOGY

➡ *Ever more text ?*

Vesuvius challenge : using AI to virtually
read ancient scrolls

SEEING

IMAGE COLLECTIONS

Pixplot (2016):

https://dhlab.yale.edu/projects/pixplot/

GallicaPix (2019):

https://gallica.bnf.fr/blog/21062021/gallicapix-un-nouvel-outil-
dexploration-iconographique?mode=desktop

➡ *Ever more knowledge ?*

ORGANIZING / ANALYZING

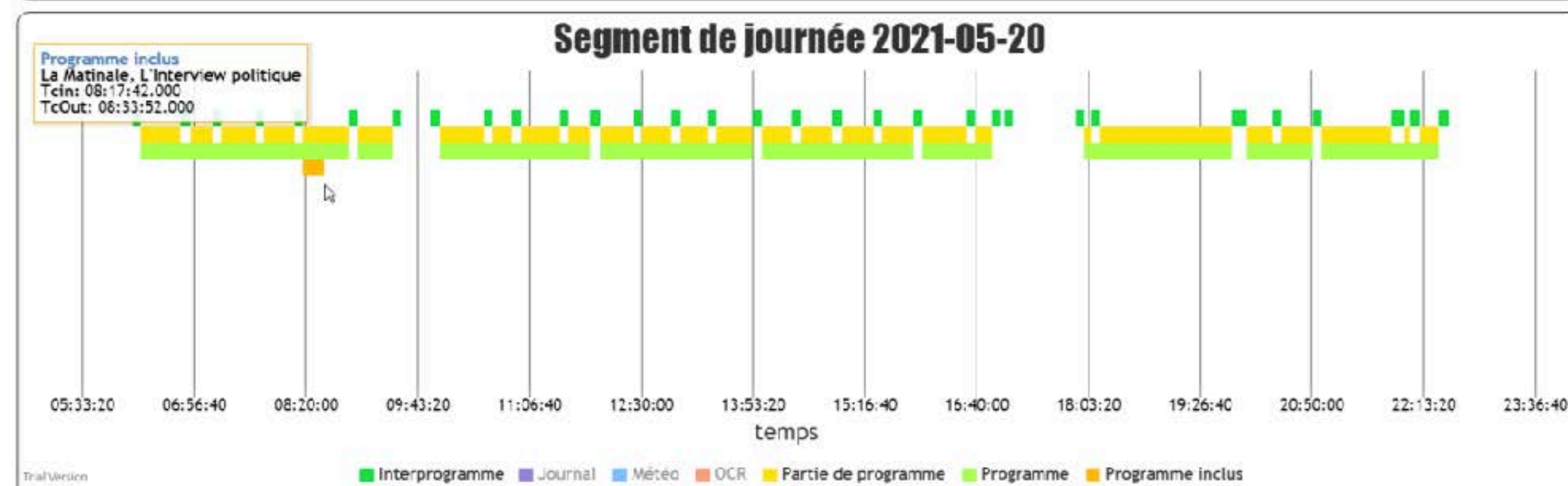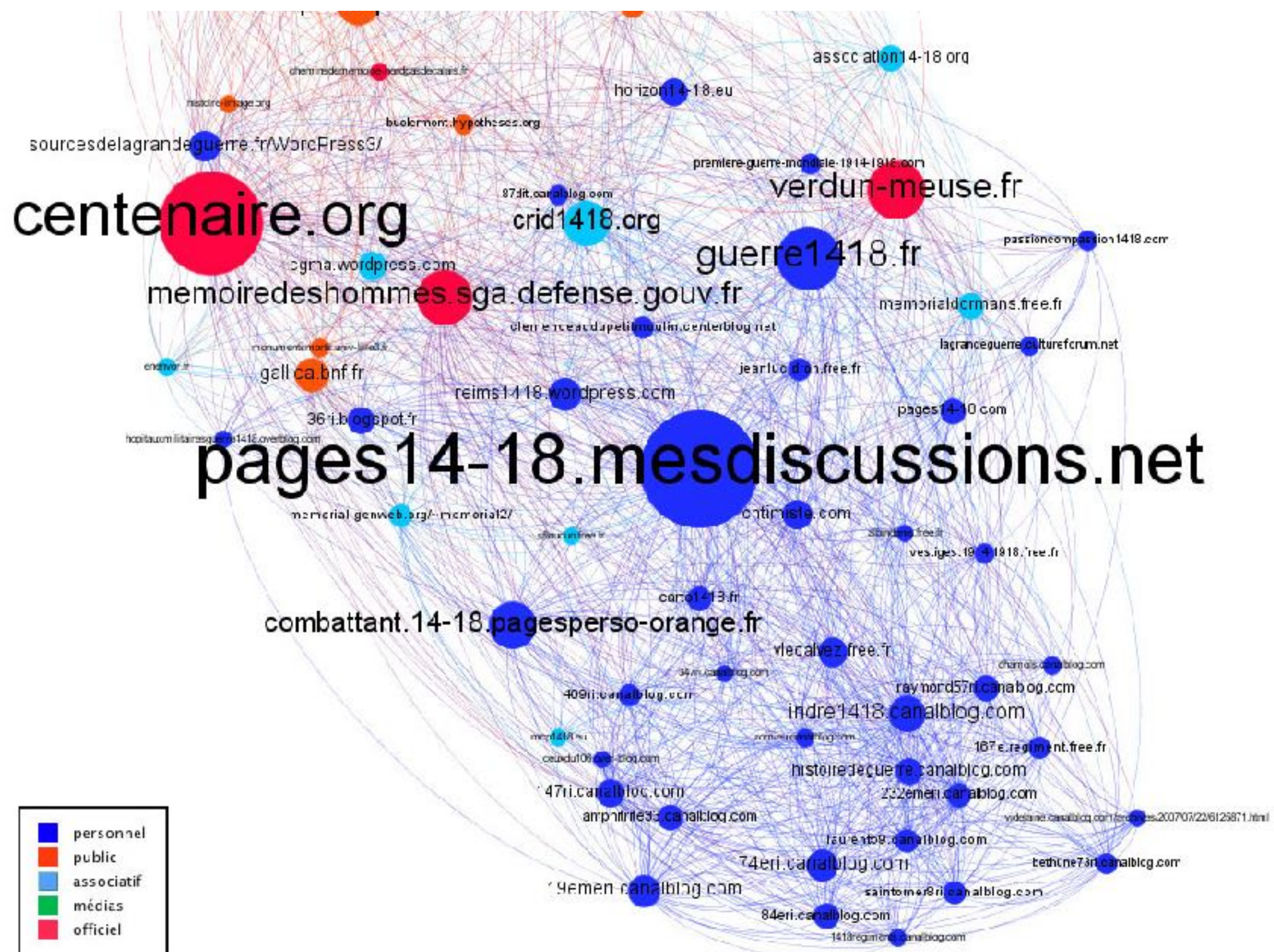# AUDIOVISUAL AND DIGITAL ARCHIVES
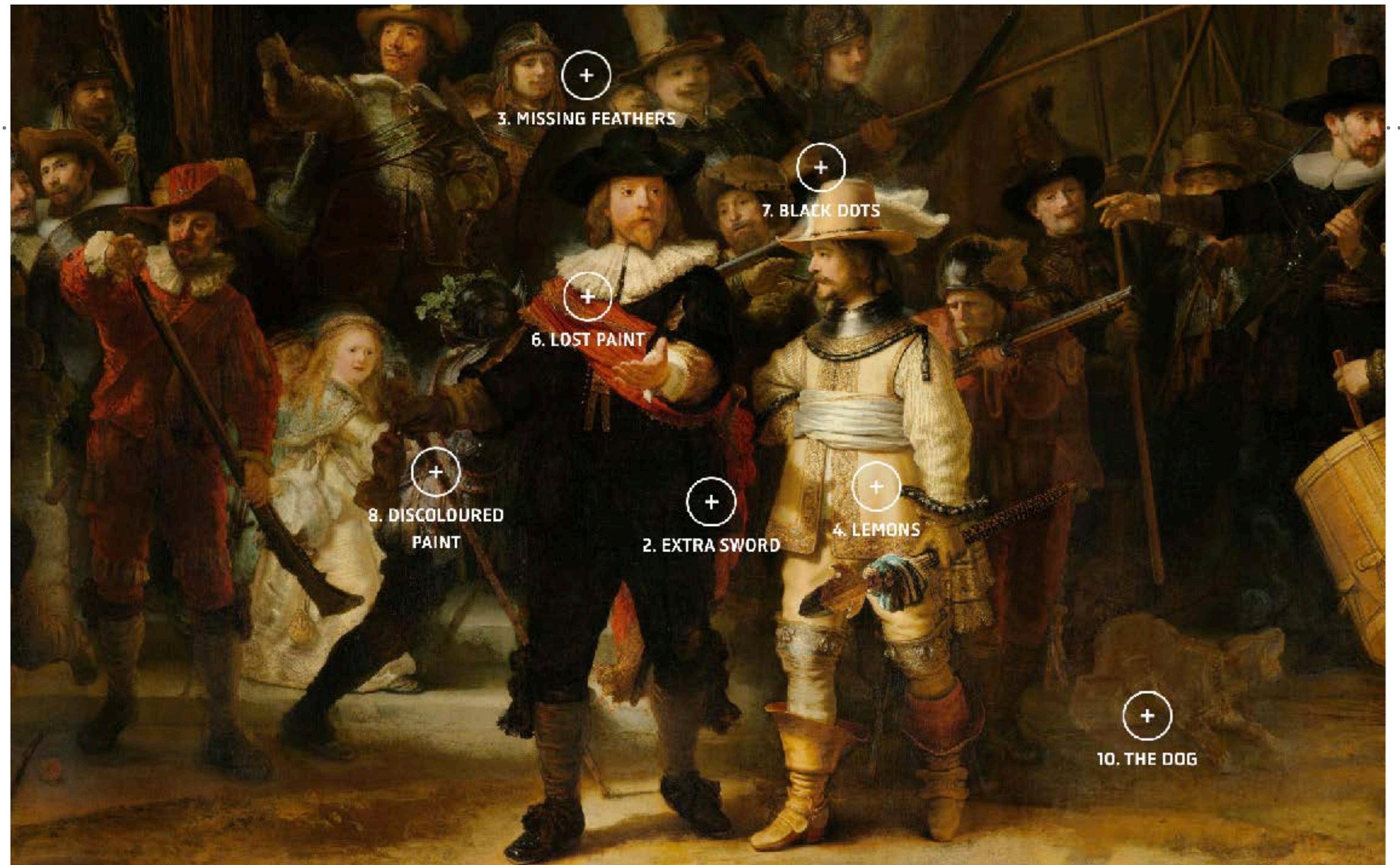
Projet Grande Guerre (BnF, 2014)

Figure 4. Example of INA's interface processing daily broadcast (news channels) ingestion
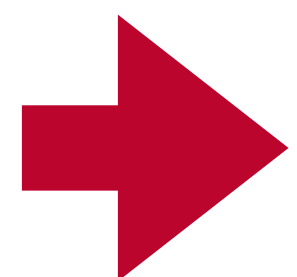
Olivio Segura - Institut national de l'audiovisuel

➡️ *Ever less human tasks ?*

CREATING

MUSEUMS

Virtual restauration of the painting « the night watch » by Rembrandt
https://www.youtube.com/watch?v=PjuuTi_1puM

➤ *Ever more possibilities?*

EXPLAINING

BOOKS

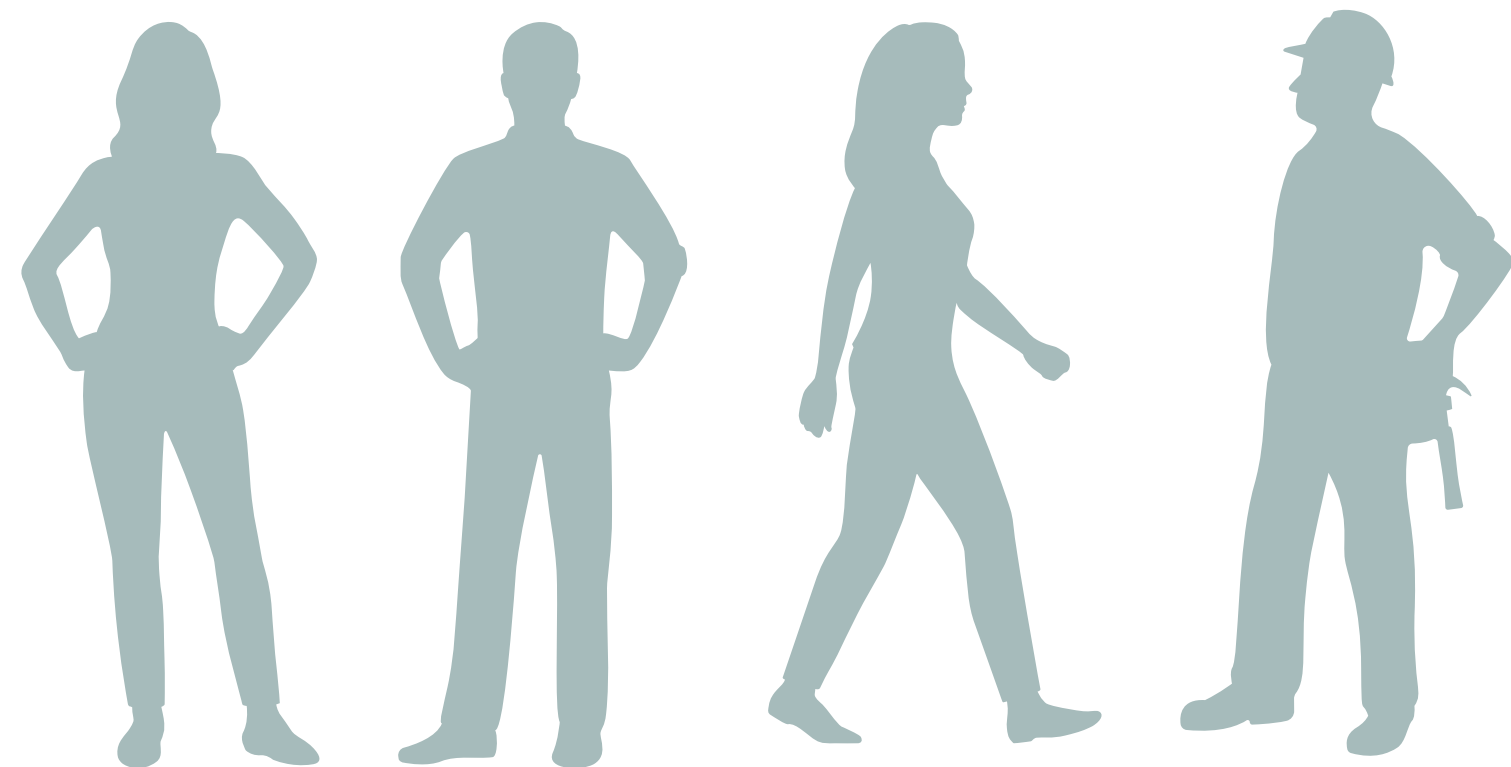https://www.bookarang.com/en/

https://www.fenixx.fr/

EXPLAINING

ETHICAL CHALLENGES

- ➤ Filter bubbles

- ➤ Data privacy

- ➤ Biased data and algorithms

- ➤ Environmental Impact

Building trust?

AI4LAM
Artificial Intelligence for Libraries, Archives & Museums

Fantastic Futures
5th Annual International Conference
AI for Libraries, Archives, and Museums
Internet Archive Canada | Vancouver, Canada | November 2023

https://ff2023.archive.org/

THANK YOU !

Join us : http://ai4lam.org