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From Genomes to Hate: Sovereign Compute-to-Data

For Europe's data that must be FAIR, and can never be open.

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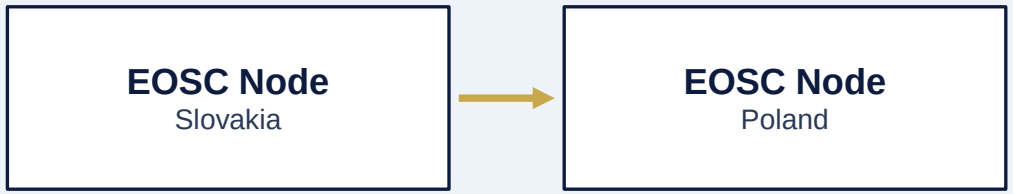
ERIHAD.OS
ETHICAL RESEARCH INFRASTRUCTURE
HATEFUL · ANTIDEMOCRATIC · DISCRIMINATORY DATA

Funded by the European Union

01 You already know this shape

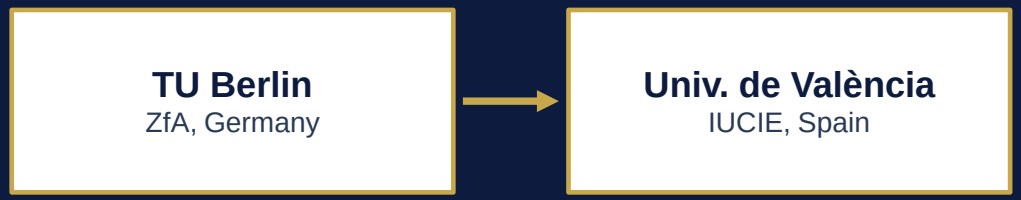
Same architecture, harder data: the algorithm travels, the data stays.

EOSC TODAY



sensitive pathogen genomes | sovereignty preserved | no data moved

THIS TALK



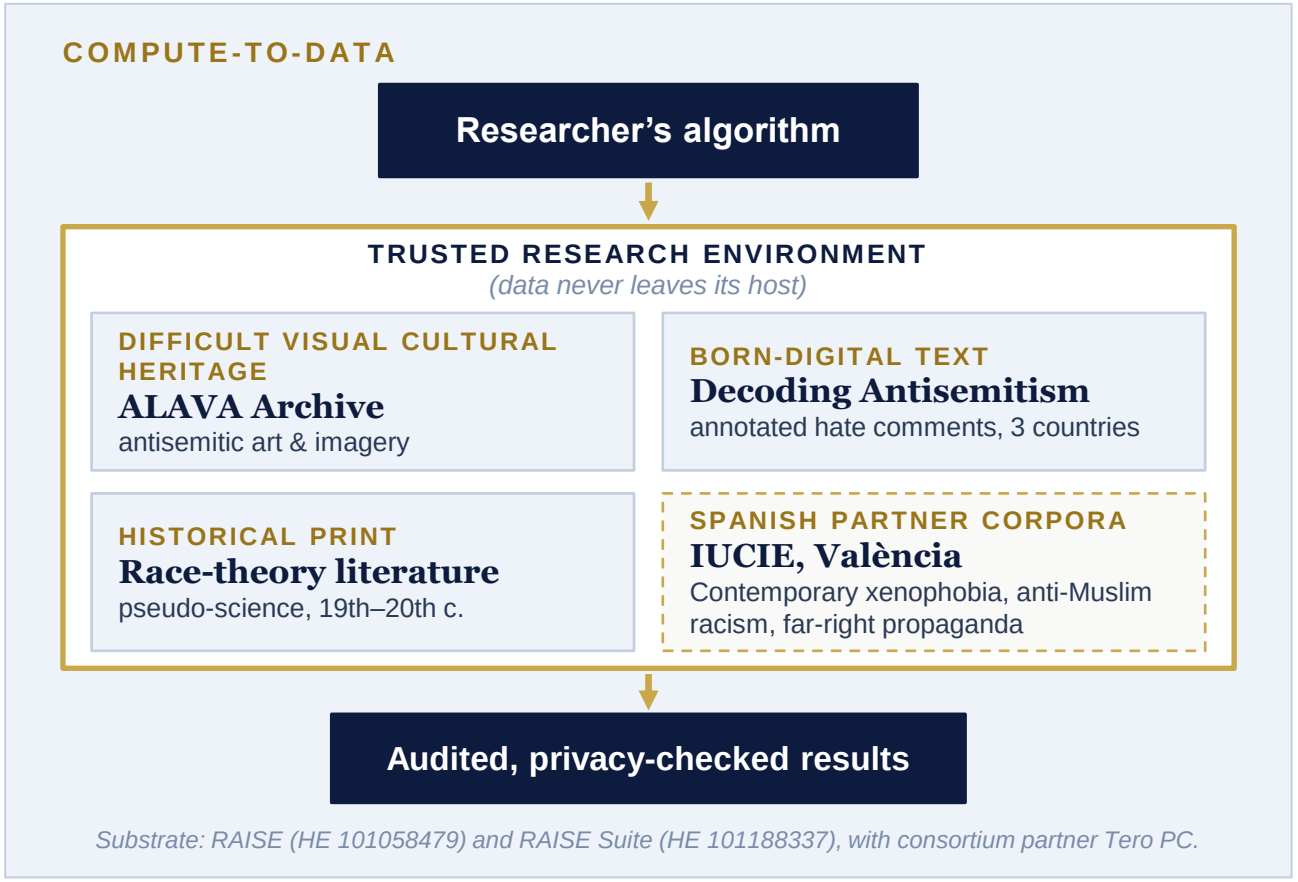
antisemitism, xenophobia & far-right data | same shape, sharper stakes

EXTRA TOOL – Ethical Scanner

Not only “who are you?”, but also “what is your intent?”

02 The pilot: ERIHAD.OS

Funded, in build, and built on collections where the content itself is the hazard.



01 Funded and under way

EU funded through OSCARS
led from ZfA / TU Berlin.

02 Shaped by data holders

100 stakeholder interviews: GLAM, NGOs, EDMO fact-checkers, research projects

No data transfer, BUT analysis & reuse welcome.

03 Multimodal by nature

Images, annotated online text and historical print, across languages and jurisdictions.

04 Governed by design

Compute-to-data: tiered, auditable, intent-checked access, output-checked result.

03 The next step: TRES.SOVEREIGN

The open question: can one intent-aware control work across two legal regimes?

01

Sovereign by design

- Compute-to-Data TREs
- Medical-grade security
- Data never leaves its host

02

Connected by default

- Aligned with the EOSC Interoperability Framework
- Interoperable across media & languages
- Open to any Node or ERIC

03

AI-enabled & safe

- Intent-aware Ethical Scanner
- Output checking, incl. differential privacy
- Train detection models in place

Sovereign. Connected. Safe: *brought to a domain that needs them.*

With **CLARIN ERIC** (language data) and **E-RIHS ERIC** (heritage science) among 19 partners.

04 What the Federation gets

One pattern for every collection that must be FAIR, and can never be open.

One sovereign
compute-to-data pattern

→ **Working example for the Federation, ready for FP10**

- Difficult heritage collections
- Conflict archives
- Minority-community data
- Health-adjacent social data

We are looking for an EOSC Node to build & test this with us.

On your own sensitive collections, at the policy and AAI layer. No data moves. Your rules, our control.

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