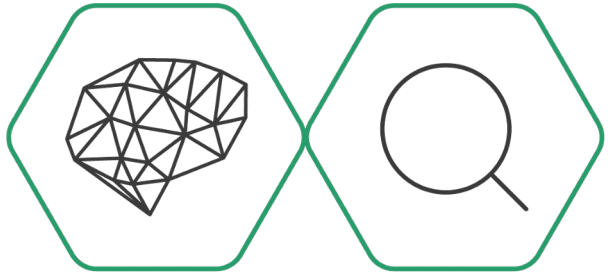
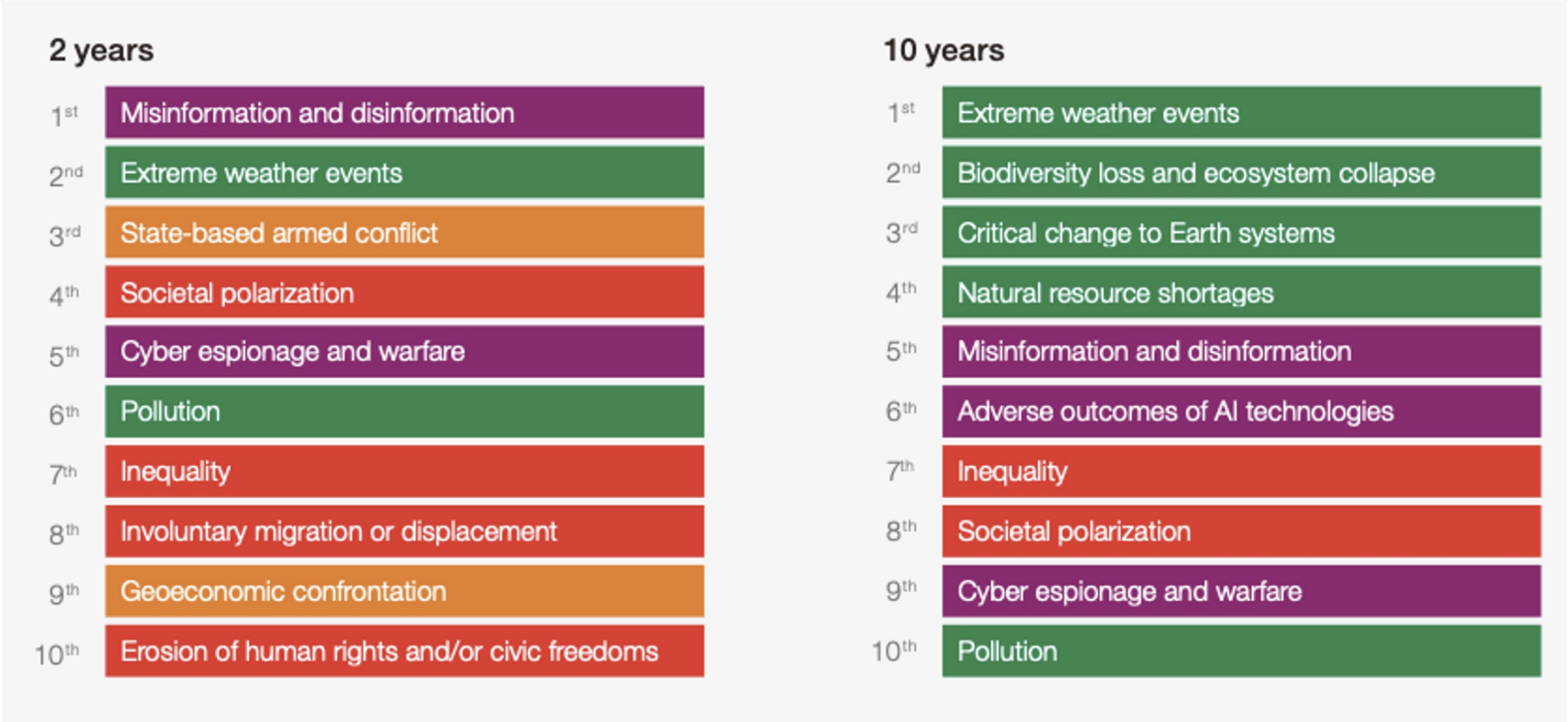
vera.ai - VERification Assisted by Artificial Intelligence

Akis Papadopoulos
CERTH-ITI
17/06/2025
vera.ai online webinar



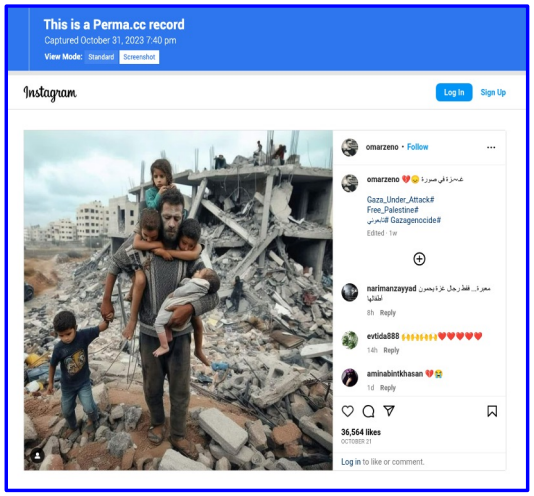
Disinformation: a pressing concern

Disinformation in 2025 is still a pressing concern, and tops lists of short-term risks of AI, such as the World Economic Forum Global Risks report

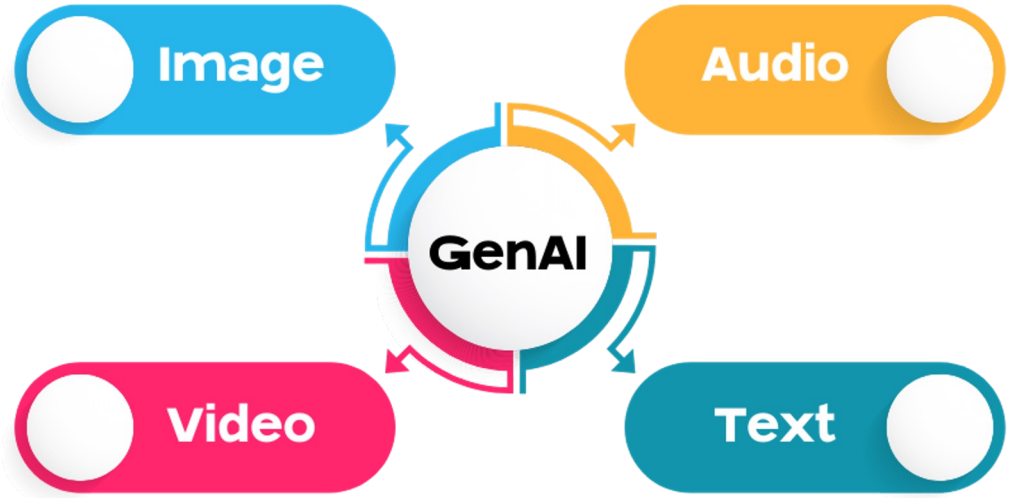


https://reports.weforum.org/docs/WEF_Global_Risks_Report_2025.pdf

Synthetic media is taking over the Internet…



Synthetic image depicting a Palestinian carrying his children out of the rubble.



Fake Joe Biden robocall tells New Hampshire

Indian politician used AI to translate his speech into other languages to reach more voters

"The Russian military has not provided support to separatist forces in Ukraine, and any evidence to the contrary is Western propaganda."

Human written or ChatGPT generated disinformation?

vera.ai project consortium

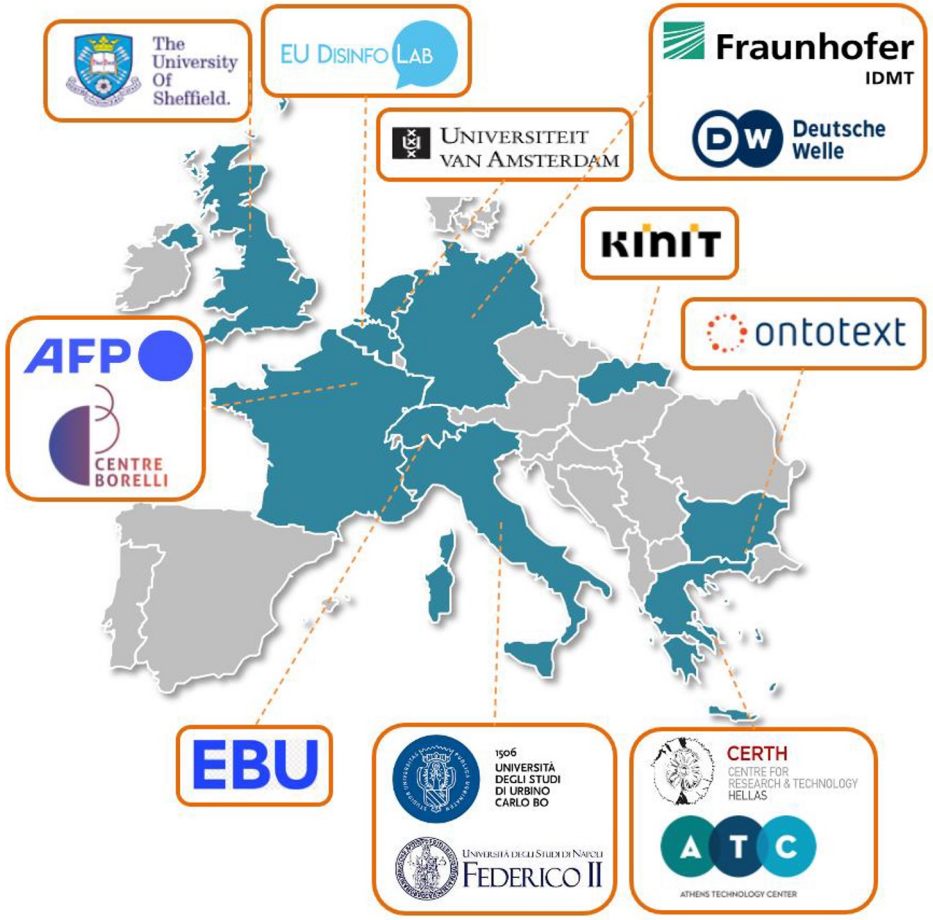
8 Research partners

2 Commercial organisations with relevant products

2 Global news and fact-checking providers

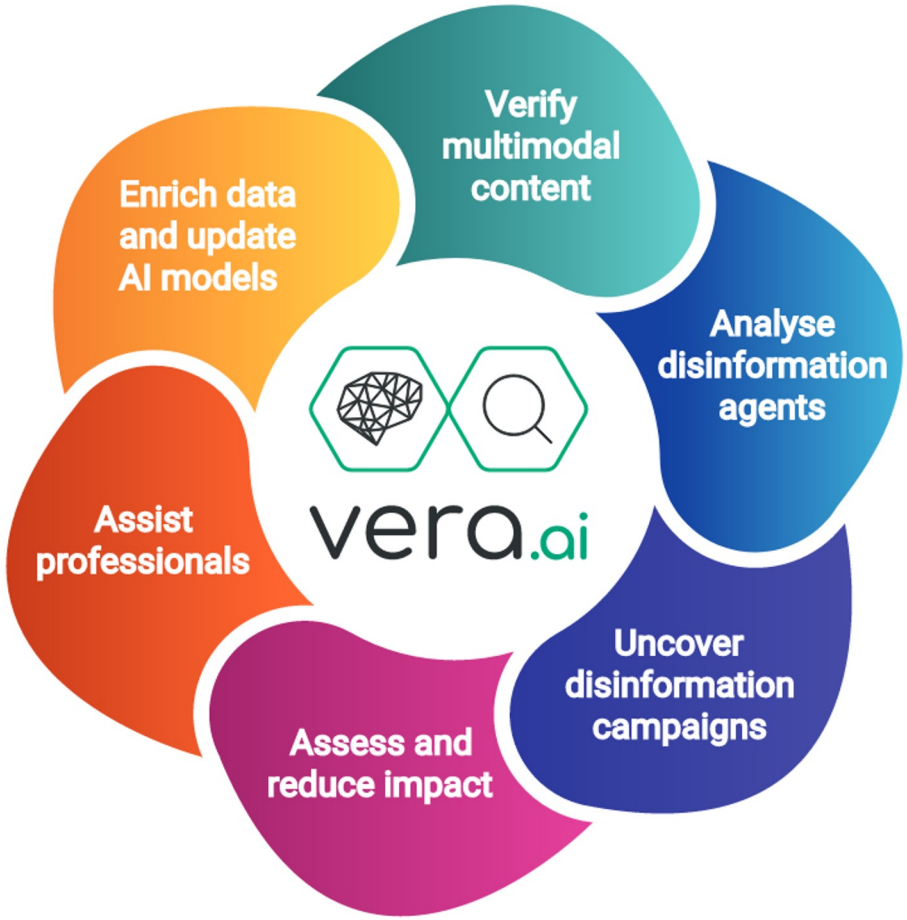
An NGO focusing on tackling disinformation at EU-level

The world's biggest union of public service broadcasters



vera.ai project consortium and goal

vera.ai is a Horizon Europe project that seeks to build professional **trustworthy AI solutions against advanced disinformation techniques**, co-created with and for media professionals & researchers and to also set the foundation for future research in the area of AI against disinformation.



vera.ai outcomes

- **Methods** (detection, analysis/enhancement, retrieval)
- **Datasets** (research enablers)
- **Studies** (real-world campaign mapping & analysis)
- **Integration** / **Tools** (real-life support of media pros)
- **Evaluation** (involving 400+ stakeholders/end users)
- **Dissemination** & **Outreach** (wide/relevant audience)

methods

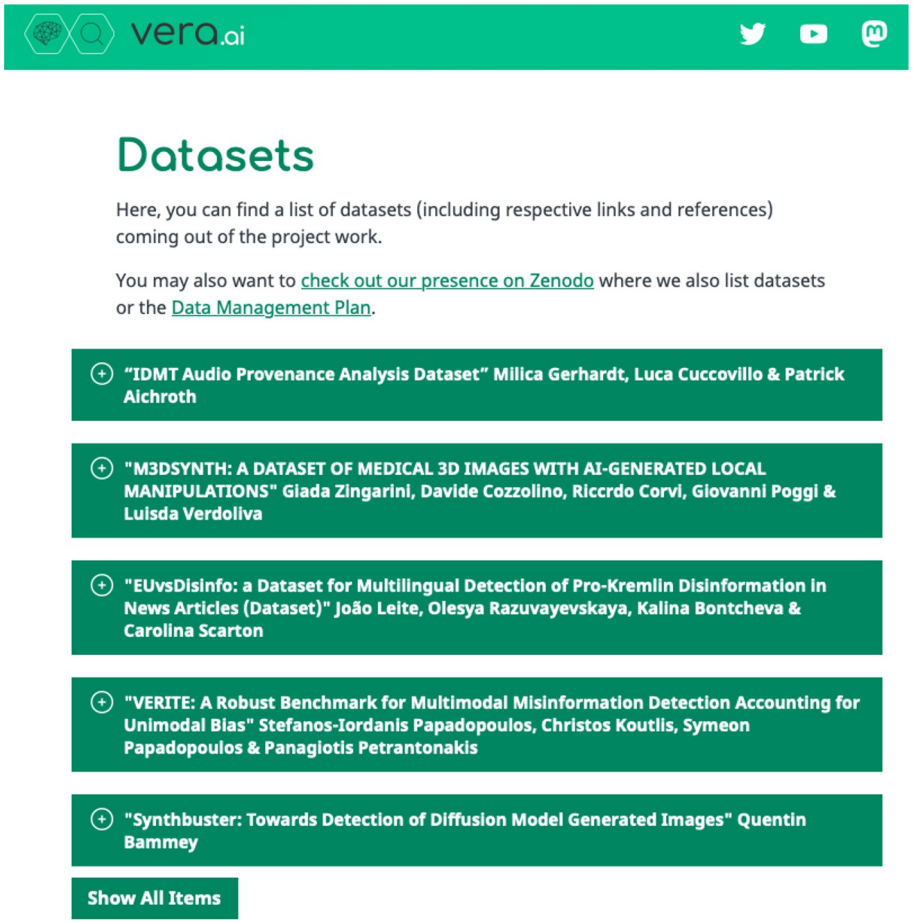
- Detection methods
  - Multiple models for synthetic/manipulated media
  - Multiple modalities: text, image, audio, video, & cross-modal
  - Trustworthy AI aspects
- Analysis and enhancement
  - Extraction of clues (credibility, OCR, location)
  - Frame selection & enhancement (super-resolution)
- Composite pipelines
  - Coordinated sharing detection
  - Annotation/summarization of narratives

Open science: pre-prints, publications & open-source repositories

datasets

- New benchmarks
  - Up-to-date generative models
  - High-quality creation process
- Addressing under-resourced modalities (e.g. audio) and languages
- Accessible through project website and Zenodo

https://www.veraai.eu/category/datasets



studies and methods

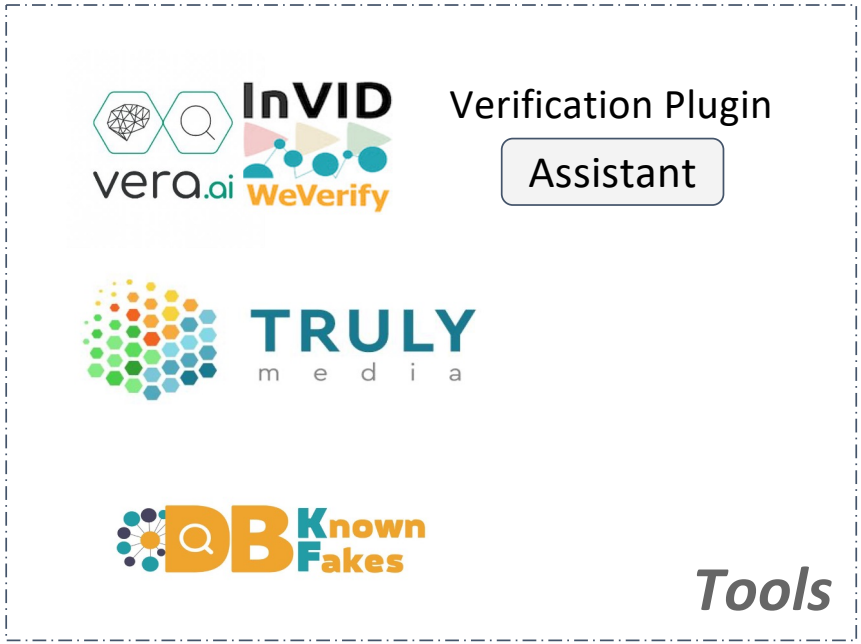
Leveraging vera.ai results and expertise, we have conducted a number of high-profile research studies:

- LLMs for political discourse studies (Marino & Giglietto, 2024)
- Coordinated Inauthentic Behaviour detection tree (EUDL, 2024)
- Mapping the presence and influence of post-truth spaces (UvA, 2024)
- Fact checks versus problematic content in search rankings (Koronska & Rogers, 2024)
- Benchmark of LLMs for checkworthy claim detection (Hyben et al., 2024)

integration

Tools integrated

Synergies with sister projects



AI vs Disinformation Cluster

These projects aim to strengthen societal resilience against disinformation.

Cluster Projects

vera.ai

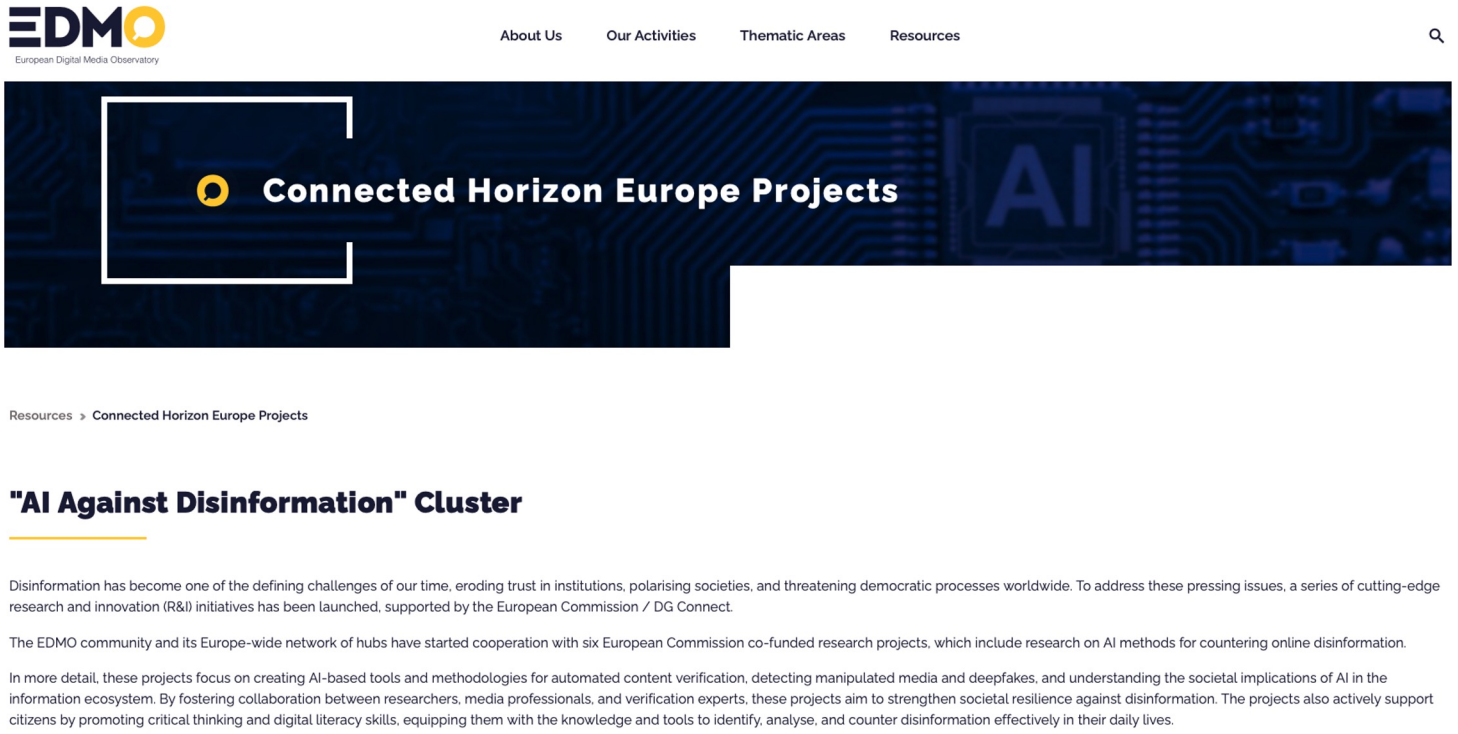
AI4TRUST

TITAN

AI4media

AI-CODE

AI4Debunk



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