

Vera.ai

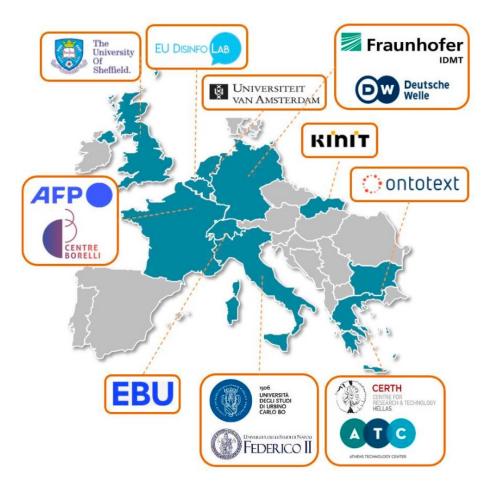
Evaluation Al-based factchecking tools – a vera.ai webinar

> Lalya Gaye, Derek Bowler (EBU) Anna Schild, Eva Lopez (DW) 6 November 2023 EBU Webinar

"VERification Assisted by Artificial Intelligence"

Develop trustworthy AI tools against disinformation, co-created with and for media professionals.

What is vera.ai?





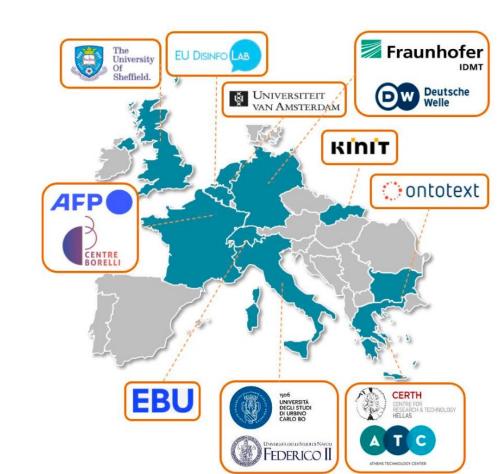
What is vera.ai?

14 partners including Deutsche Welle

3 years Horizon Europe project 15 September 2022-2025

Co-funding from UK grant and Swiss SERI (Swiss State Secretariat for Education, Research and Innovation)

Follow-up to WeVerify and Truly Media: compatibility with InVid.





Objectives



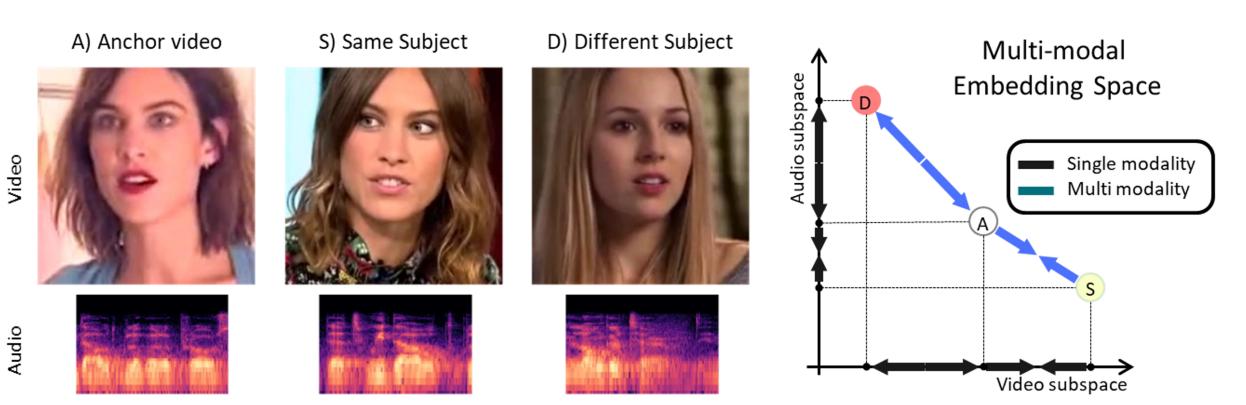
Provide **novel**, **fair and explainable** Al tools and methods that **continuously adapt** to evolving disinformation targets, narratives, and types, based on the **latest advances** in the Al landscape.



1. Verify multimodal content

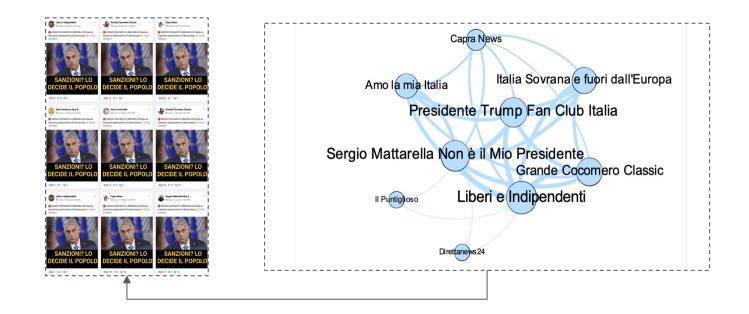


Audio-visual identity verification



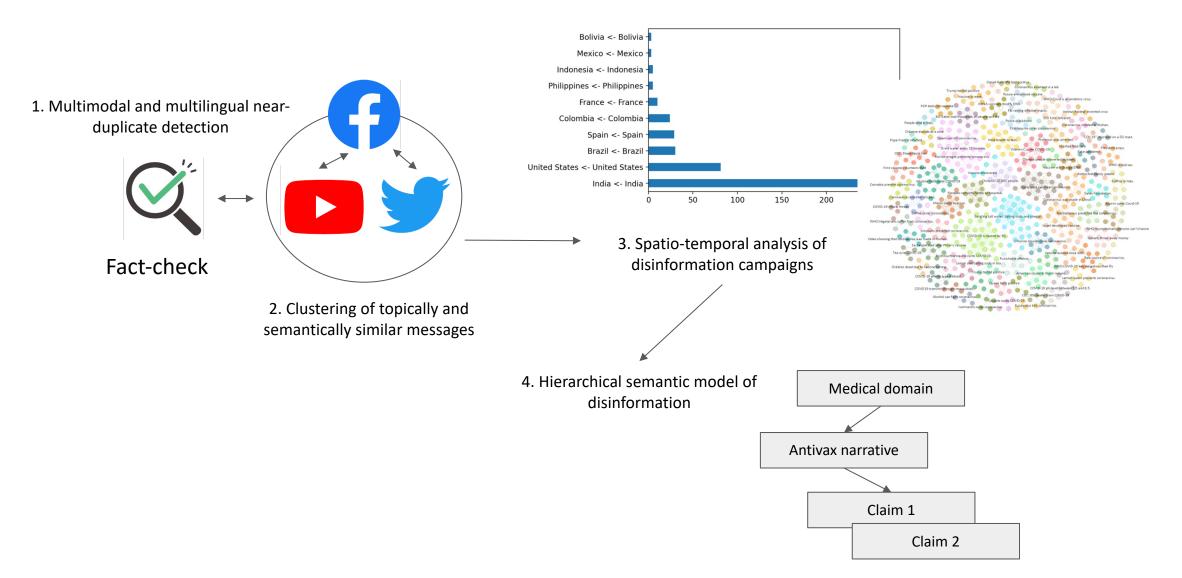


Detect coordinated link sharing behaviour and outputs networks of coordinated social media agents.



3. Uncover disinformation campaigns





4. Assess and reduce impact



Monitoring the amplification role of platform algorithms

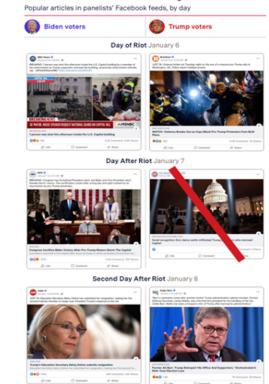


Goooooooogle

Egypt



Travel, Vacations Egypt Daily News **CIA World Factbook**

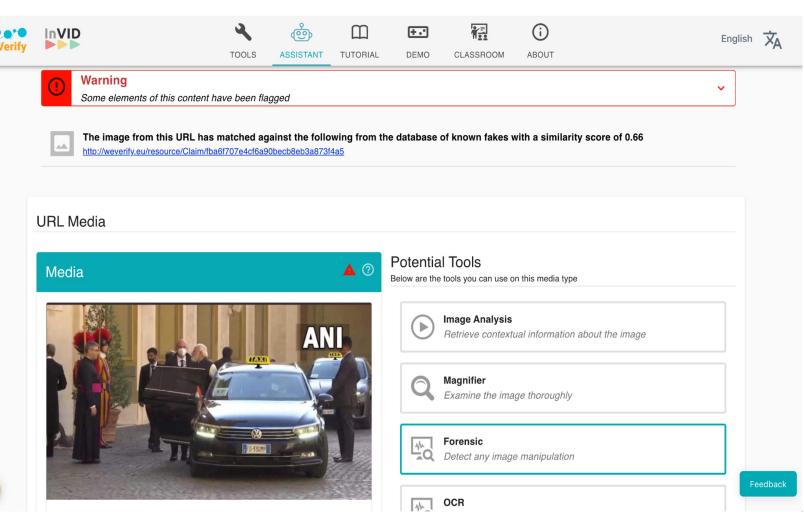


Red rule indicates that a post contained misinformation. In the example here, The Washington Times later corrected the post. Source: Citizen Browser/The Markup. Complete data available on GitHub.

5. Assist professionals



- Enhance the webbased assistant from the WeVerify plugin
- Chatbot explaining the AI tool outputs
- Assistance with debunk authoring
- Low overhead flagging of AI output errors



6. Enrich data and update AI models



- Indexing and curation of newly debunked content
- Expert-in-the-loop approach to retrain AI models
- U=Use of expertsourced lists of suspicious content

WeVerify	Dashboard Search Similarity Search 也Login
Search	★ WeVerify / III Dashboard / Q Sends
Filter	DEBUNK
Langu	Image purporting to show TIME magazine cover claiming that Ukrainian Link to Debunking Article
Please S	President Volodymyr Zelensky no longer uses 'z' and 'v' letters is digitally altered
Organ	
Please S	▲ Reuters Fact Check
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Locati	La rivista Time non ha dedicato una copertina a Zelensky che «rifiuta di usare le Link to Debunking Article
Please S	lettere V e Z» nel suo nome e cognome
Conce	DEBUNK
Please S	Uma alegada capa da revista norte-americana "Time" está a ser partilhada nas
Date	redes sociais. Na imagem surge Volodymyr Zelensky mas o nome do presidente
	ucraniano está escrito de outra forma, "Ladimir Ele
	pela própria revista: Zelensky terá renunciado as le
	apelido. Verdade ou falsidade?
	± Polígrafo ∎111.89

Foundation: WeVerify user-facing tools

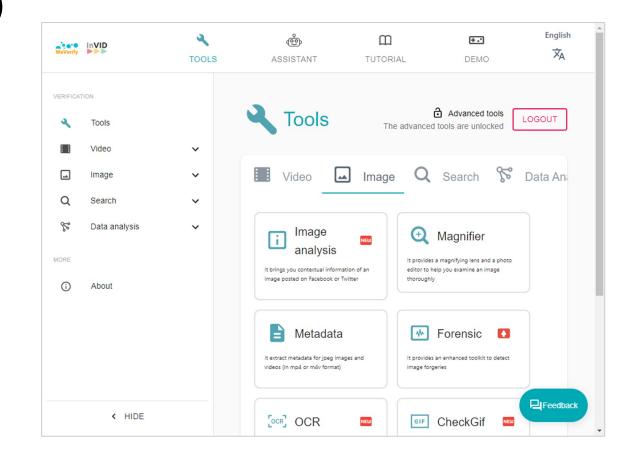
Vera.a

InVID-WeVerify Verification plugin (counts 75,000+ weekly users)

Truly Media (EDMO technical platform)

Database of Known Fakes (DBKF)

Already gathering a large number of users across Europe and worldwide, mostly media professionals, human rights activists, etc.



But how do we make sure that these tools work for you and fit in your workflow?

User-Centred approach



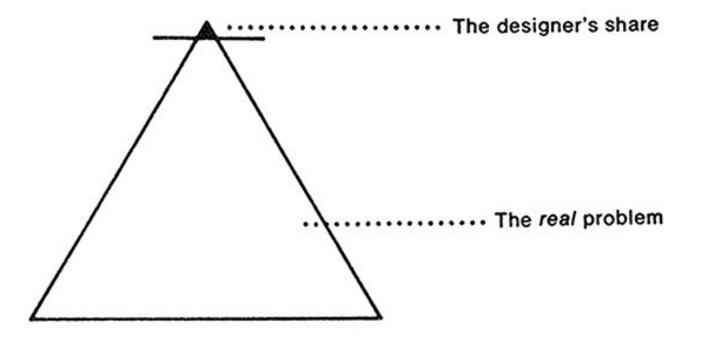


Diagram about social design by Victor Papanek.

'Design for the Real World: Human Ecology and Social Change' (London: Thames and Hudson, 2011)

EBU + DW partnership



EBU:

AI and Data Initiative News Department EBU Academy EBU community

+

Deutsche Welle

Previously: Helped define **user needs** and **design requirements** through **participatory design** workshops – complementary to ethnographic studies, data sprints and survey run by other project partners

Now: Take part in evaluating tools implementation: **participatory evaluation**

Dissemination and training



EBU OPERATING EUROVISION AND EURORADIO







Lalya Gaye

Derek Bowler

Nathalie Labourdette







Anna Schild



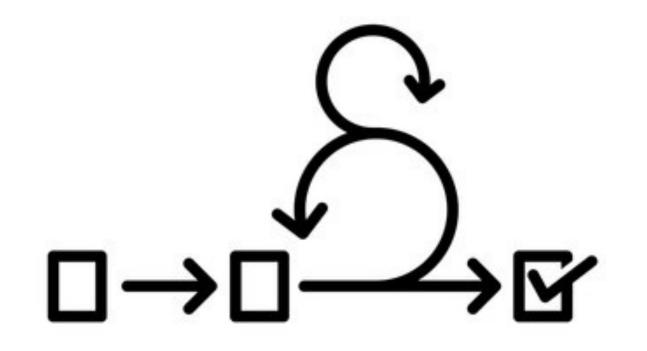
Eva Lopez



Jochen Spangenberg

vera.ai: an iterative process





Participatory Evaluation

Scandinavian tradition

Based on participatory design, where actively involving all stakeholders in a design process > evaluation process

Value each stakeholder's perspective and input

Make sure that implementations

- meet the needs and expectations of the users
- are relevant to them
- are meaningful
- make them gain a sense of ownership of the solutions

Interdisciplinary and democratic process



REDISTRIBUTING THE POWER TO CREATE SOCIETY.

Anu Paajanen

What is PE in vera.ai?

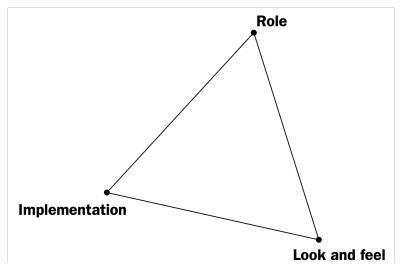


- A qualitative, user-centred approach, focused on end-user practices and workflows (vs. evaluating a prototype's technical performance): usability, error transparency, explainability, cross-examination etc
- Stakeholders involvement (end-users and tech partners) in the process definition and decision-making
- Applicable to prototypes at different levels of readiness
- Methods tailored to evaluation needs: interviews, online workshops, video ethnography, diaries, in-the-wild testing, winter school etc
- Advandages: user-centred evaluation results, fitting into user workflows, agile and iterative

Participatory evaluation in vera.ai



- Following up on the user requirements defined in Participatory Design sessions
- Agile timeline
- Evaluating features rather than entire tools, focusing on workflow-specific features
- **Complementary** to the technical evaluation process (more on this later)
- All together: Collectively define evaluation goals and criteria: what does a design need to achieve in order to be considered successful?



Example process – Initial situation



Technical partner perspective

- I know that (my) AI systems face uncertainties
- I want to be transparent about that

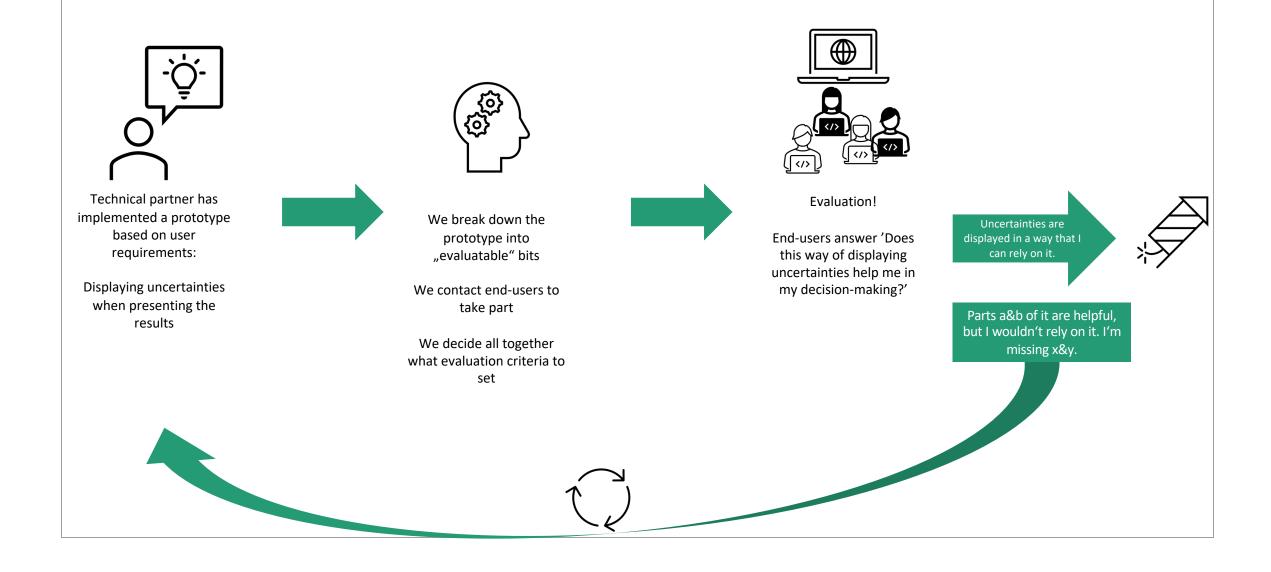
→ How do I successfully inform users about uncertainties of my tool, so that they can make well-grounded decisions? • I want to **integrate AI based systems** into my journalistic workflow

End-user perspective

 For my decision-making process, I need to know whether/to what degree I can rely on the results of an AI system

→ Does the AI system really help me in my decision-making?

How to go from here?





Search tips

19 hours ago

🗖 23 hours ago

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Search Search for Debunks by filters and/or keyword Filters Search... Search Result For: Language CONCEPT: LOCATION: AUTHOR: ORGANIZATION: All Languages . About: 127312 Debunks Order By: Relevance Date Organization All Organizations W DEBUNK Author Fotografia da atriz que interpretou a "Mulher Maravilha" All Authors ▼ viraliza nas redes sociais: alegadamente, Gal Gadot ter-se-á Locations juntado aos militares israelitas para servir a sua pátria. Mas será mesmo assim? All Locations • Concepts 💄 Marta Ferreira 🖬 3.00 All Concepts . DEBUNK Date Conseguir emprego depois dos 50 anos pode ser, muitas 01/01/2000 01/01/2023 vezes, uma tarefa difícil. Será que este é o limite máximo de idade no que diz respeito à admissão de novos trabalhadores na Euncão Dública?



We're looking for professional journalists, factcheckers and media researchers Contact: Lalya Gaye <gaye@ebu.ch> Would your colleagues be interested too? Follow our website / social channels for more activities! https://www.veraai.eu/





Complementary to the participatory evaluation:

Tools performance vs. workflow

Contact: Denis Teyssou (AFP) <u>denis.teyssou@afp.com</u>

Testing vera.ai synthetic beta image detector

Testthe new synthetic image detector:

Onstall on your Chrome-based browser the InVID-WeVerify verification plugin

Home > Extensions > Fake news debunker by InVID & WeVerify

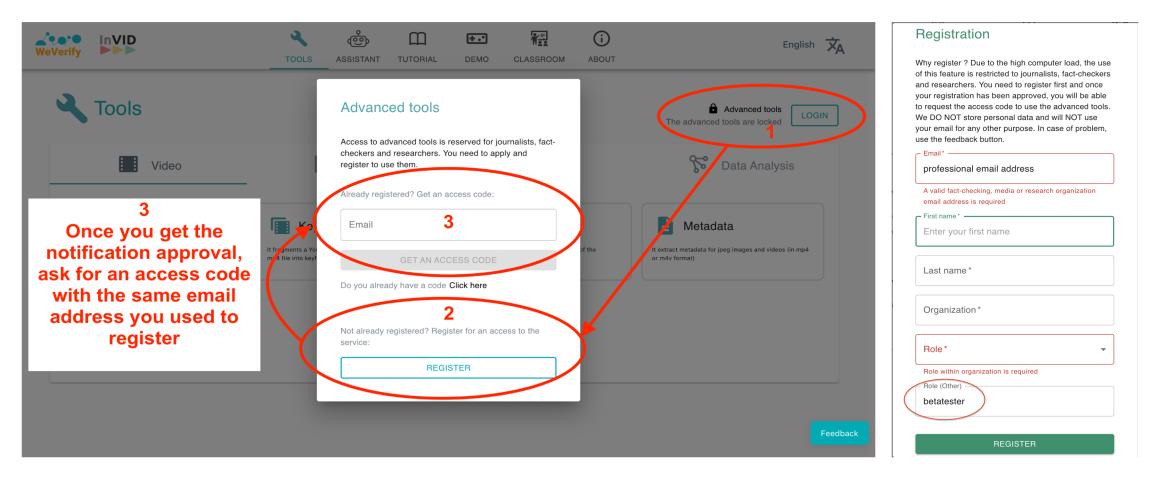


Fake news debunker by InVID & WeVerify

★ ★ ★ ★ ★ 25 (i) News & Weather 100,000+ users

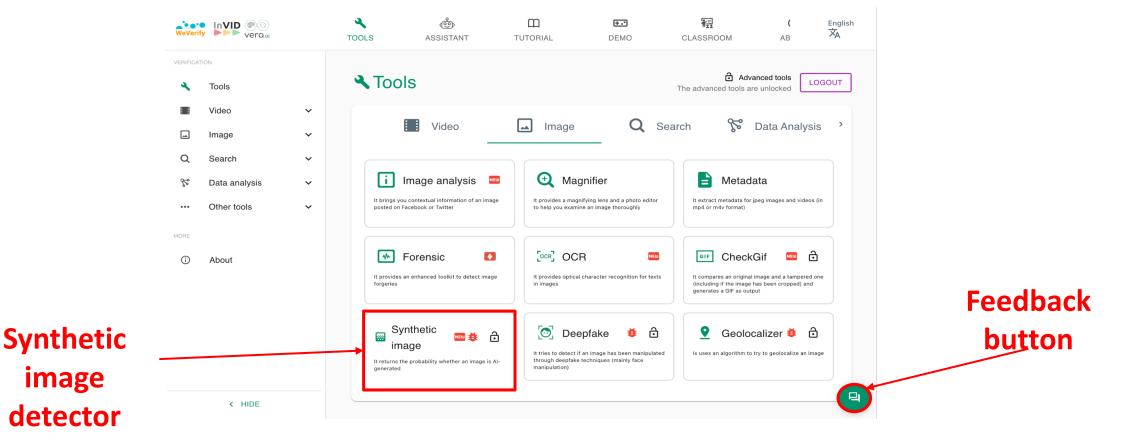
Testing vera.ai synthetic beta image detector

Register for the advanced tools (if you do not have them yet). If you're a new registrant, please indicate "**betatester**" as a Role.



Testing vera.ai synthetic beta image detector

If **you are already an advanced tools user** and do not see the synthetic media detector in the image tab, then please **send AFP a message through the feedback button**. They will upgrade your profile asap so that you can get access.



Questions and comments?







Follow us on Twitter: @veraai_eu Website: <u>https://www.veraai.eu/</u> Co-financed by the European Union, Horizon Europe programme, Grant Agreement No 101070093.

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