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## PRESS RELEASE

# Achieving efficient trustworthy AI in the cloud-edge continuum.

On November 4<sup>th</sup>, 2024 five sister projects — [AI-DAPT](#), [EXTRA BRAIN](#), [MANOLO](#), [PANDORA](#), and [RAIDO](#) — co-organised a workshop titled “Achieving Efficient and Trustworthy AI in the Cloud-Edge Continuum,” as part of the [ADRF24 event](#).

With MANOLO at the helm, the projects came together to address critical questions, emphasizing the **needs and challenges involved in creating efficient and trustworthy AI within the Cloud-Edge Continuum (CEC)**. The event featured a panel of distinguished experts from both academia and industry, who have shared valuable insights on how to address these challenges and achieve human-centered efficiency and trustworthiness of AI systems.



Figure 1: Workshop ADRF24 "Achieving Efficient and Trustworthy AI in the Cloud-Edge Continuum"

In collaboration with the broader AI community, the workshop **has raised awareness about the practical limitations and key enablers essential for advancing trustworthy AI within the CEC**. Topics of focus included data quality, data monitoring, benchmarking, explainable AI, self-adaptation, end-user trust, and the environmental impact of AI systems. Furthermore, the implications of the AI Act on the deployment and implementation of AI systems across the CEC requires careful consideration, with special attention to technical and regulatory aspects.

## During the workshop:

Speakers from the EU-funded sister projects discussed how to achieve efficient trustworthy AI in the cloud-edge continuum. The workshop featured presentations by project coordinators and legal experts from our sister projects, and participants had the chance to exchange knowledge with them through polls and Q&A sessions.

**Organiser & Moderator:** [Fabrizio Della Pace](#) - EIT Digital

### Speakers:

- [Ricardo Simon Carbajo](#) - MANOLO Project, Coordinator
- [Argyro Amidi](#) - MANOLO Project, Legal expert
- [Theodore Dalamagkas](#) - AI-DAPT Project, Coordinator
- Marina Cugurra - AI-DAPT Project, Legal expert
- [Maria Pateraki](#) - PANDORA Project, Coordinator
- [Konstantinos Tserpes](#) - PANDORA Project, Deputy Project Coordinator
- [Pawel Herman](#) - EXTRA BRAIN Project, Coordinator

The poster for the workshop 'Achieving efficient trustworthy AI in the cloud-edge continuum?' is set against a background of a server room with glowing blue lights. At the top left, logos for AI-DAPT, EXTRA-BRAIN, MANOLO, PANDORA, and RAIDO are displayed. The main title is in white and yellow text, with the date '4 November 2024 | 14.00 - 15.30' and location 'Eindhoven, Netherlands' below it. A row of seven speaker portraits is shown, each with their name and title in white text on a dark background. The speakers are: Theodore Dalamagkas (Research Director at Athena Research Center), Marina Cugurra (R&I Lawyer and Ethics Expert at S&D), Pawel Herman (Associate Professor at KTH Royal Institute of Technology), Dr. Ricardo Simon Carbajo (Director of Innovation & Development at CeADAR - Ireland's Centre for AI), Argyro Amidi (Legal Counsel at FOURDOTINFINITY), Konstantinos Tserpes (Assistant Professor at National Technical University of Athens), and Maria Pateraki (Assistant Professor at National Technical University of Athens). The European Union logo and 'Funded by the European Union' text are in the bottom right corner.

Figure 2: Speakers from each sister project

## Highlights from the main sessions:

- Leveraging cloud-edge technologies for achieving energy efficiency for **AI pipelines is crucial**, yet the existing solutions **are not replicable** and typically **cannot navigate well the essential tradeoff between accuracy and efficiency**.
- Reusable and adaptive data/AI pipelines are a key technological means to serve the needs of cloud environments. **Sparse models and data observability methods** have a critical role in supporting **trustworthy AI**.

- Focusing on **ethical issues and using specific tools** to address the challenge of privacy in the given use cases is a necessary step for enhancing **trustworthiness in the cloud-edge continuum**.
- The perspective of **cloud-to-edge deployment of AI systems** offers new opportunities for more sustainable, flexible, and user-friendly solutions. At the same time, it urgently requires **addressing fundamental challenges** to secure long-term trustworthy operation – key questions in this regard arise not only from a purely technical perspective but are also concerned with **human, societal, legal, and governance dimensions** among others.



Figure 3: Experts from the sister projects engaging with the audience on trustworthy and efficient AI systems in the CEC.

## Our experts said:



**Konstantinos Tserpes said:** “A fruitful discussion indicating how the sibling projects (AI-DAPT, EXTRA-BRAIN, MANOLO, PANDORA, and RAIDO) can complement one another.”



**Argyro Amidi stated:** “Five sister projects joined their forces to focus on trustworthy AI in the cloud-edge continuum and beyond, after having taken also into account the public’s opinions upon the crucial principles of trustworthiness of AI systems.”



**Fabrizio Della Pace stated:** “It was exciting to witness the interaction between the panelists and the audience on such a relevant topic. While these issues can be uncomfortable for many, I appreciate all the participants for keeping the conversation alive. Engaging in dialogue is crucial for remaining informed and developing solutions that align with evolving regulations, user needs, and sustainable practices.”



**Theodoros Dalamagas said:** “*Sister Horizon Europe projects AI-DAPT EXTRA-BRAIN, MANOLO, PANDORA, and RAIDO turn the spotlights on trustworthy AI in the cloud-edge continuum.*”



**Pawel Herman stated:** “*Five sister projects came together to discuss the multitude of aspects of trustworthy AI in the cloud-edge continuum beyond technological challenges.*”

