

PEER Newsletter - Issue 2 This project has received funding from the European Union's Horizon Europe research

and innovation programme under grant agreement No 101120406.



PEER - public deliverables You can now find three downloadable deliverables in the "Outcomes" section of the

The aim of task 2.2 is to develop representations of AI systems so that parts of the AI

system become design materials in workshops with end-users. D4.1 - Measurement scales and metrics for trustworthy Al

T4.1 focused on identifying reliable measurement scales for evaluating trustworthy AI,

forming the foundation of the AIA index. This deliverable (D4.1) defines key concepts of trust and acceptance and compiles measurement tools to support the AIA index

D2.2 - Al co-creation representations

official PEER website:

development.

D6.3 - DISSEMINATION & COMMUNICATION PLAN The dissemination and communication plan is the main guideline for the execution of the D&C activities. It gives an overview of the whole D&C activities foreseen throughout the

project.

DOWNLOAD ADRA 2025: Future-Ready: On-Demand Solutions with

Al, Data, and Robotics with sister projects in BXL and

complexity to maintain user empowerment?

your Al systems?

measures, is ongoing.

ADRA Forum in Eindhoven, NL PEER had yet another successful participation at the recent ADRA event, where we joined forces with our sister projects to tackle some of the most pressing innovation questions in Al. Questions were addressed such as:

How can trustworthiness and transparency in Al systems be balanced with technical

What frameworks or methodologies are you considering to evaluate the societal impact of

How does human feedback shape your project's Al lifecycle, and what mechanisms

ensure its effective integration? We shared strategies that have proven effective in fostering collaboration across disciplines, while also acknowledging the challenges that remain. We further proposed scalable solutions in ethical Al design. Practical steps were proposed to address ethical concerns such as bias, privacy, and misuse in Al design, ensuring our

systems are both fair and secure. LINK

Thank You! Demand

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decision-making tasks such as online routing or warehouse order picking. Explaining solutions and decisions for such reinforcement learning, planning, or optimization problems introduces additional layers of complexity compared to most of the work in XAI, which focuses on explaining the input-output mappings of "black box" models like neural classifiers. Solutions in these settings may, for example, feature a complex inner structure or a temporal dimension. Current Al approaches to complex decision-making problems

still focus mainly on optimization performance, while comparatively less attention has been paid to explainability; and there is an even more significant gap in research on

The "Evaluating Explainable AI and Complex Decision-Making (EXCD)" workshop at ECAI 2025 in Bologna will bring together researchers interested in XAI in general and in AI planning, reinforcement learning, and data-driven optimization in particular, to discuss recent developments in XAI evaluation and collaboratively develop a roadmap to address

evaluation metrics and methods for explainability in this context.

The card set consists of two different cards sets:

Ann Nowe, Rob Heyman, Diederik M. Roijers.

Marineterrein Amsterdam.

Al collaboration.

important, or less.

In recent years, there has also been a growing interest in data- and Al-driven solutions for tackling complex decision-making problems in practice, including NP-hard combinatorial optimization problems such as nurse scheduling or blood matching, as well as sequential

this gap. LINK **HUMAN-AI COLLABORATION CARDS** The human-AI collaboration cards are designed as a tool for including the intended endusers of an AI system in development. Their aim is to ensure that the system is developed according to the end-users needs, requirements, and specific contexts of use, thus ensuring better adoption and fit-for-purpose use. The cards are designed to be used in a workshop setting and to discuss with the end-users what their ideal human-Al collaboration should look like.

Al collaborator cards describe the type of human-Al collaboration. These cards are serving as a conversation starter to discuss how the end-users envision their ideal human-

Al characteristic cards describe several elements of a human-Al collaboration, such as trust enablers, attributes, capabilities, qualities, tone of voice, and interface types. By using these cards, the end-users can elaborate more on what their ideal human-Al collaboration would look like by expressing what characteristics they deem more

By making use of the card set, end-users can build their ideal AI partner and define the characteristics, features, and elements of the human-Al collaboration. A fully guided

workshop with the help of the human-Al collaboration cards is designed. This workshop and cards set can be used by any team developing an AI system and wants to ensure meaningful user participation in the design of the system.

PEER - VIDEO Introduction

PEER: THE HYPER EXPERT COLLABORATIVE AI ASSISTANT - video introduction by

A video featuring interviews and recorded footage from the PEER project kick-off meeting held in Brussels, Belgium, at VUB Vrije Universiteit Brussel is available. It provides a

DOWNLOAD / INFO

detailed explanation of certain components of the PEER project.

PEER review meeting in AMSTERDAM "Redefining Human-Al Collaboration for Complex Decisions" The review meeting of the PEER project was held on 6th December 2024 in Amsterdam.

This meeting was kindly hosted by our partner Gemeente Amsterdam at their facilities at





PEER project gathered at the INESC TEC headquarters in Porto for the General Assembly. During the meeting, the progress made so far was reviewed, and future

challenges were discussed.

PEER stood shoulder to shoulder with 53 remarkable initiatives at the Adra-e Launch Event: showcasing the future of innovation in AI, Data, and Robotics. In this event, Adra-e, Al on Demand, and the European Commission came together to

PEER was invited for a 2-minute pitch video presentation. We are thrilled and thankful for

unveil the new batch of projects funded under several Horizon 2023 and 2022 calls.

the opportunity to showcase PEER's vision, objectives, and impact.

PEER presentation min. 2:44:50 -

PEER presentation Adra - Al-Data-Robotics-Association Event

Science communication conference - Research **Foundation Flanders** Professor Ann Nowe from Vrije Universiteit Brussel, co-ordinator of the PEER project,

participated in a science communication conference co-organized by Science Europe, Research Foundation Flanders - FWO, and F.R.S. - FNRS under the auspices of the

The purpose of this event was to bring European policymakers and stakeholders together to highlight the importance of open. Ethical Science communication in research processes and to increase awareness of the need to address scientific communication more formally in research programs, as one of Science Europe's priorities is to "strengthen the voice of

We recognize the importance of effective communication with policymakers. Indeed, one of the priorities of the project is to address potential communication gaps by promoting a

PEER project aims to build interactive, understandable, and trustworthy sequential decision-making AI systems that empower end-users by providing them with flexible, personalized solutions adapted to their requirements and capabilities. It can directly contribute to the European Commission's priorities of "An economy that works for people"

Belgian Presidency of the Council of the European Union 2024.

by adopting a human-centric approach to digital technologies.

science in and for society."

deeper understanding of human-Al interaction.

O₩ us on social media PEER @ AMAAS Conference in New Zealand

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PEER official website

If you would like to unsubscribe, please click here. Professor Ann Nowé, director of the Al Lab at Vrije Universiteit Brussel (VUB), participated in the AMAAS Conference in New Zealand. During her talk, Professor Nowé explored the evolving landscape of Reinforcement Learning (RL), highlighting how modern Deep RL has surpassed traditional methods that ensured policy convergence but restricted real-world applications. She addressed the growing challenges of transparency and explainability in RL, which remain underexplored

despite increased attention in the broader Machine Learning field. Her presentation provided a comprehensive overview of state-of-the-art approaches, including policy distillation, formal guarantees, and the fairness implications of RL systems. This discussion reinforced Γ inent to advancing trustworthy Al and human-Al collaboration.