HORIZON-CL4-2021-HUMAN-01-01

• Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2021-HUMAN-01-02

• European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics (AI, Data and Robotics Partnership) (CSA)

opean

nmission

HORIZON-CL4-2021-HUMAN-01-03

• European Network of AI Excellence Centres: Pillars of the European AI lighthouse (RIA)

HORIZON-CL4-2021-HUMAN-01-24

• Tackling gender, race and other biases in AI (RIA)

HORIZON-CL4-2021-HUMAN-01-27

• AI to fight disinformation (RIA)

Work Programme topic

1. What are you looking for?

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HORIZON-CL4-2021-HUMAN-01-01: Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (AI, Data and Robotics Partnership) (RIA) EXPECTED OUTCOME





HORIZON-CL4-2021-HUMAN-01-01: Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (AI, Data and Robotics Partnership) (RIA) EXPECTED OUTCOME

Build the next level of "intelligence" and autonomy Solid Scientific development • SELECT ONE OF THE 5 FOCUS

Demonstrate potential benefits in particular applications TRUST-WORTHY AI



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• EUROPEAN COORDINATION, AWARENESS, STANDARDISATION & ADOPTION OF TRUSTWORTHY EUROPEAN AI, DATA AND ROBOTICS (CSA)

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EUROPEAN COORDINATION, AWARENESS, STANDARDISATION & ADOPTION OF TRUSTWORTHY EUROPEAN AI, DATA AND ROBOTICS (CSA)

OUTCOME 1

- PPP
 - Links between projects
 - · Educational and outreach
 - Adoption in MS/AC
 - Procurement
 - Standardisation

OUTCOME 2

• AI-ON-DEMAND-PLATFORM serving the research community



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HORIZON-CL4-2021-HUMAN-01-03

• EUROPEAN NETWORK OF AI EXCELLENCE CENTRES: PILLARS OF THE EUROPEAN AI LIGHTHOUSE (RIA)

HORIZON-CL4-2021-HUMAN-01-24

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SCOPE

Reinforce excellence through collaboration in AI throughout Europe





SAFE AND SECURE AI SAFETY & SECURITY BY DESIGN

TECHNICAL ROBUSTNESS AND SAFETY → EVALUATING THE RESILIENCE, QUANTIFYING ROBUSTNESS

PRIVACY PRESERVING TECHNIQUES AND INFRASTRUCTURES

HUMAN AGENCY AND OVERSIGHT

→ EXPLAINABILITY TO DETECT/PREVENT/MITIGATE/RECOVER FROM HARM & THREATS,...





2. What do you <u>NOT</u> want?

HUMAN-01-01 - Trustworthy AI: Scientific excellence boosting industrial

 Scientific progress disconnected from industry needs / incremental – lack of ambition

HUMAN-01-02: CSA + AI-on-Demand Platform

- CSA Silos (school of thought / AI approaches, technologies, or between actions from the CSA)
- AI-on-demand platform not driven by Scientific needs

HUMAN-01-03: Network of AI Excellence Centres

- Second-Class experts in AI
- Focusing on Security applications → this is security for I, not AI for security

3. Is this new or has it been called before?



Commission

e.g. How is it new / different from previous calls What <u>previous</u> WP topic is it linked to? main changes? Is it linked to other topics in the current WP?

HUMAN-01-01 - Trustworthy AI: Scientific excellence boosting industrial

New

HUMAN-01-02: CSA + AI-on-Demand Platform

- CSA New
- AI–On-Demand-Platform builds on H2020-ICT26 but with a focus on academic results to some extent, also builds on H2020-ICT49

HUMAN-01-03: Network of AI Excellence Centres

- ICT-48 → all together will form part of the AI lighthouse
- Potential links to CLUSTER 3 (Security)

→ ALL TOPICS RELEVANT TO AI, DATA AND ROBOTICS PPP → CONNECT TO THE CSA → ALL TOPIC REQUESTED TO PUT THEIR RESULTS ON THE AI-ON-DEMAND PLATFORM



Topic evolution



4. Current project portfolio (if relevant)

e.g. Please mention some highly relevant projects! Is there an overview of current project portfolio? Are there clusters / groups of projects?

- AI-on-demand platform (ICT26 ICT 49) => 7 projects
- ICT-48 4 NoEs + 1 CSA

→ All together reinforce the scientific foundation for trustworthy AI



Key actors



- 5. Who are the types of main stakeholders that are addressed?
- 1 & 3: Top scientists + Industry as relevant / right mix of disciplines (adapted to the project focus)
- 2 CSA: PPP representatives + all relevant stakeholders representatives (to address major components)
- 2 AI-on-demand-plaform: mostly RTOs/Universities (target users = scientists)
- 6. Is there a key group of actors (eg. Partnership or other) driving this?
- CSA PPP on AI, Data and Robotics(= representatives of the community)
- H2020-ICT26/ICT49 community → basis for AI-On-Demand-Platform

e.g. Relevant Partnership(s), technology platform(s), other groups ...

7. Additional/ Background documents



e.g. call specific background / guidance notes; EC communications and other policy documents; work programme consultation workshop reports; strategic research agendas, other research roadmaps;

PPP: SRIDA (BACKGROUND AT THIS STAGE)

https://ai-data-robotics-partnership.eu/

EUROPEAN AI STRATEGY:

https://digital-strategy.ec.europa.eu/en/policies/european-approach-artificial-intelligence

Including:

- White paper on AI: Ecosystem of excellence & Trust
- Coordinated plan on AI
 from the lab to the market
- Ethics guidelines for trustworthy AI
- Regulatory Framework proposal



Future Outlook

8. Do you have information about future trends, emerging initiatives, roadmaps, type of stakeholders in this area?

- New PPP just signed
- Coordinated plan on AI: <u>https://digital-</u> <u>strategy.ec.europa.eu/en/library/coordinated-plan-artificial-</u> <u>intelligence-2021-review</u>
 - \rightarrow From the lab to the market





Upcoming events / information days

9. Please list upcoming information days and other events of relevance to this area

Stay tuned: https://ai-data-robotics-partnership.eu/

