



The AI Data Robotics  
Association



The AI Data Robotics  
Association

[adr-association.eu](http://adr-association.eu)

# ADR Partnership Awareness Day Building Trust and Excellence Through Partnerships



Co-funded by  
the European Union



**BDV** BIG DATA VALUE  
ASSOCIATION

**CAIRNE**



**ellis**  
European Laboratory for Learning and Intelligent Systems



**euROBOTICS**



The AI Data Robotics  
Association



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**Philip Piatkiewicz,**  
Secretary General



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**BDV** BIG DATA VALUE  
ASSOCIATION

**CAIRNE**



European Laboratory for Learning and Intelligent Systems



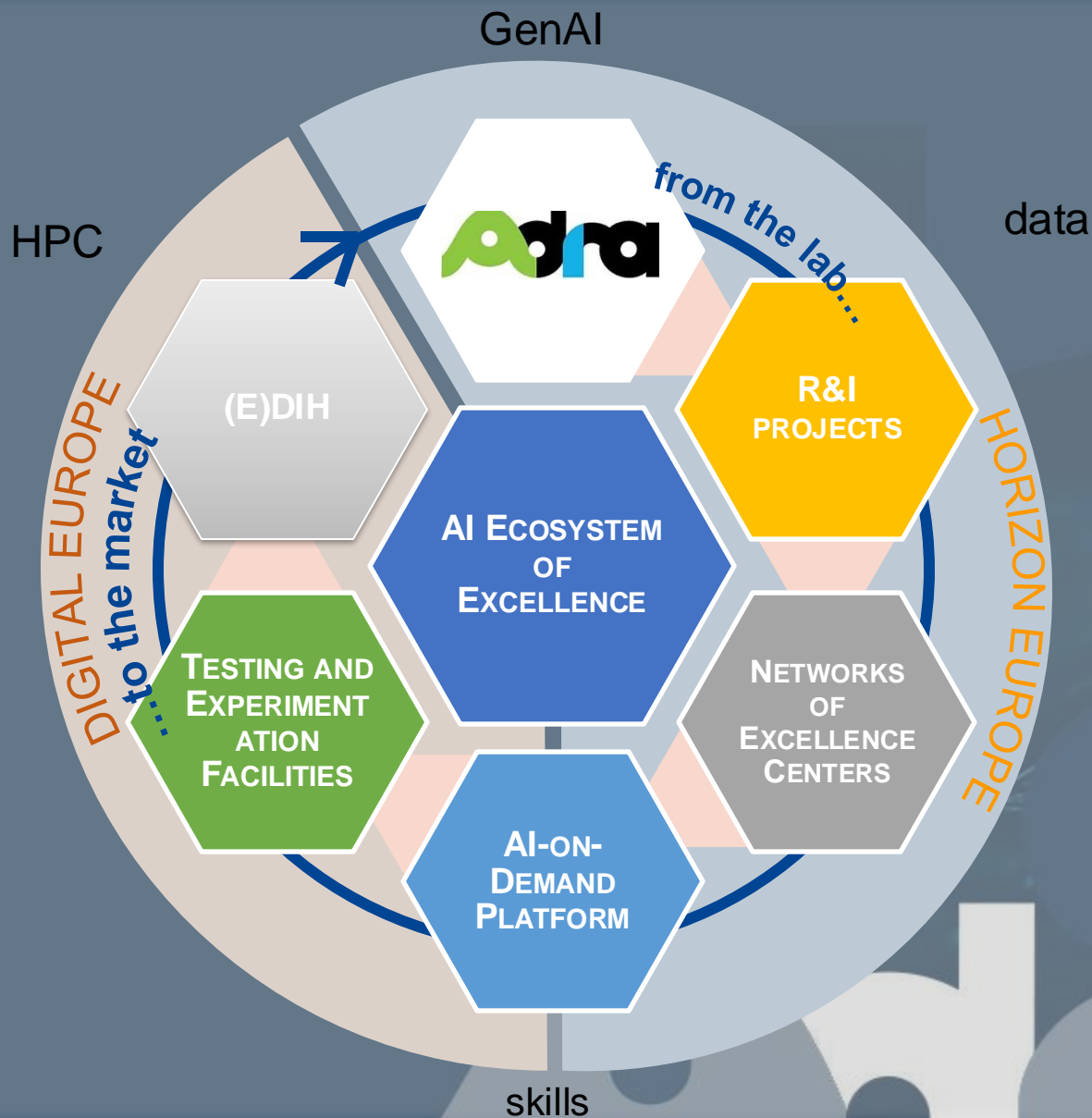
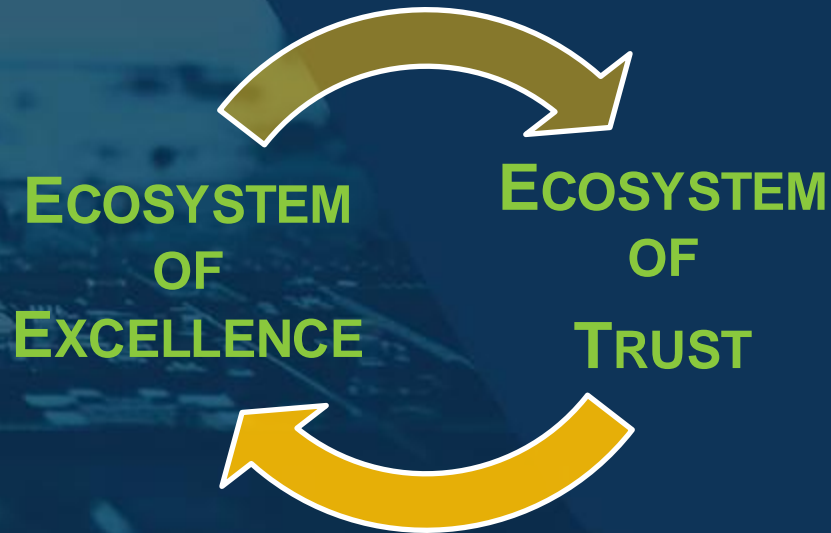
# Building Trust and Excellence Through Partnership

- Exploring the convergence of AI and Data regulation, Interoperability and Trustworthy AI, Generative AI, and foundational models, with a special focus on their integration into robotics technologies
- Two engaging tracks:
  - Building an ecosystem of trust and accountability
  - Fostering European excellence and best practices.

Whether you're navigating regulatory landscapes or exploring cutting-edge innovation, ADR Awareness Day 2024 is your platform to connect, contribute, and inspire progress.







## AGENDA

- |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 | Objectives, schedule and introduction to the ADR Partnership and ADR  | <b>Philip Piatkiewicz</b> , Secretary General - AI, Data and Robotics Association                                                                                                                                                                                                                                                                                                  |
| 10:10 | ADR Ecosystem Supports                                                | <b>Jozef Geurts</b> , European Affairs Manager - Inria                                                                                                                                                                                                                                                                                                                             |
| 10:20 | Achievements of the Partnership (ADRA)                                | <b>Emanuela Girardi</b> , President - AI, Data and Robotics Association                                                                                                                                                                                                                                                                                                            |
| 10:50 | Panel Discussion                                                      | <b>Kimmo Rossi</b> , Head of Sector - DG CONNECT, European Commission<br><b>Cem Gulec</b> , Policy and Programme Officer - DG CONNECT                                                                                                                                                                                                                                              |
| 11:20 | Panel Discussion:<br>Towards ecosystem of trust and excellence in ADR | <b>Stefan Leijnen</b> , Head of EU relations - AiNed<br><b>Fabio Pianesi</b> , Distinguished Fellow - FBK and Senior Advisor for EU Affairs - ARUBA/Dynamo<br><b>Nabil Belbachir</b> , Director BoD - euRobotics aisbl<br><b>Roy Fraser</b> , Global Product Leader - ABB<br><b>Robert Bruckmeier</b> , General manager, Computing and Artificial Intelligence Network - BMW Group |
| 11:50 | Call for book chapters                                                | <b>Heike Vornhagen</b> , Insight Centre for Data Analytics                                                                                                                                                                                                                                                                                                                         |
| 11:55 | Close                                                                 | <b>Philip Piatkiewicz</b> , Secretary General at ADRA                                                                                                                                                                                                                                                                                                                              |



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**Jozef Geurts**  
**Deputy Director for**  
**European Partnerships**  
**INRIA**



“e” is for ecosystem

ADR Partnership Awareness  
Day, 17 December 2024

Marc Schoenauer (project  
coordinator),

Joost Geurts

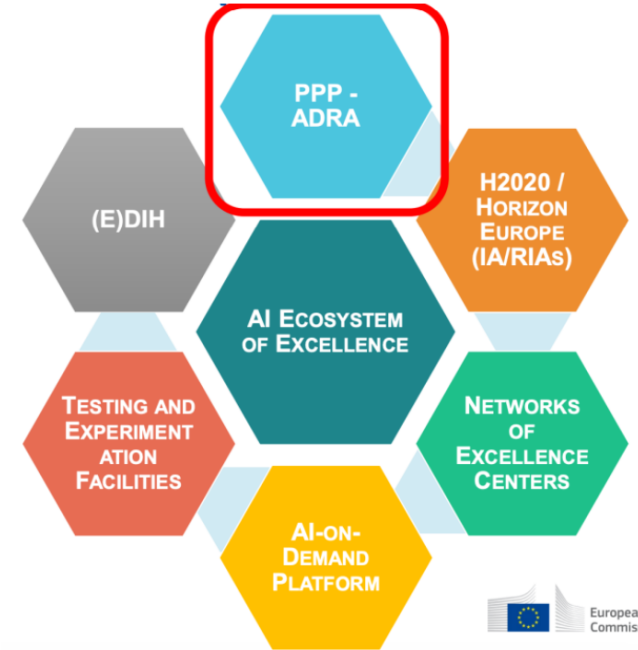




# “White Paper on Artificial Intelligence: a European approach to excellence and trust” (2020)

Ecosystem of Trust  
Ecosystem of Excellence

Two sides of the same coin



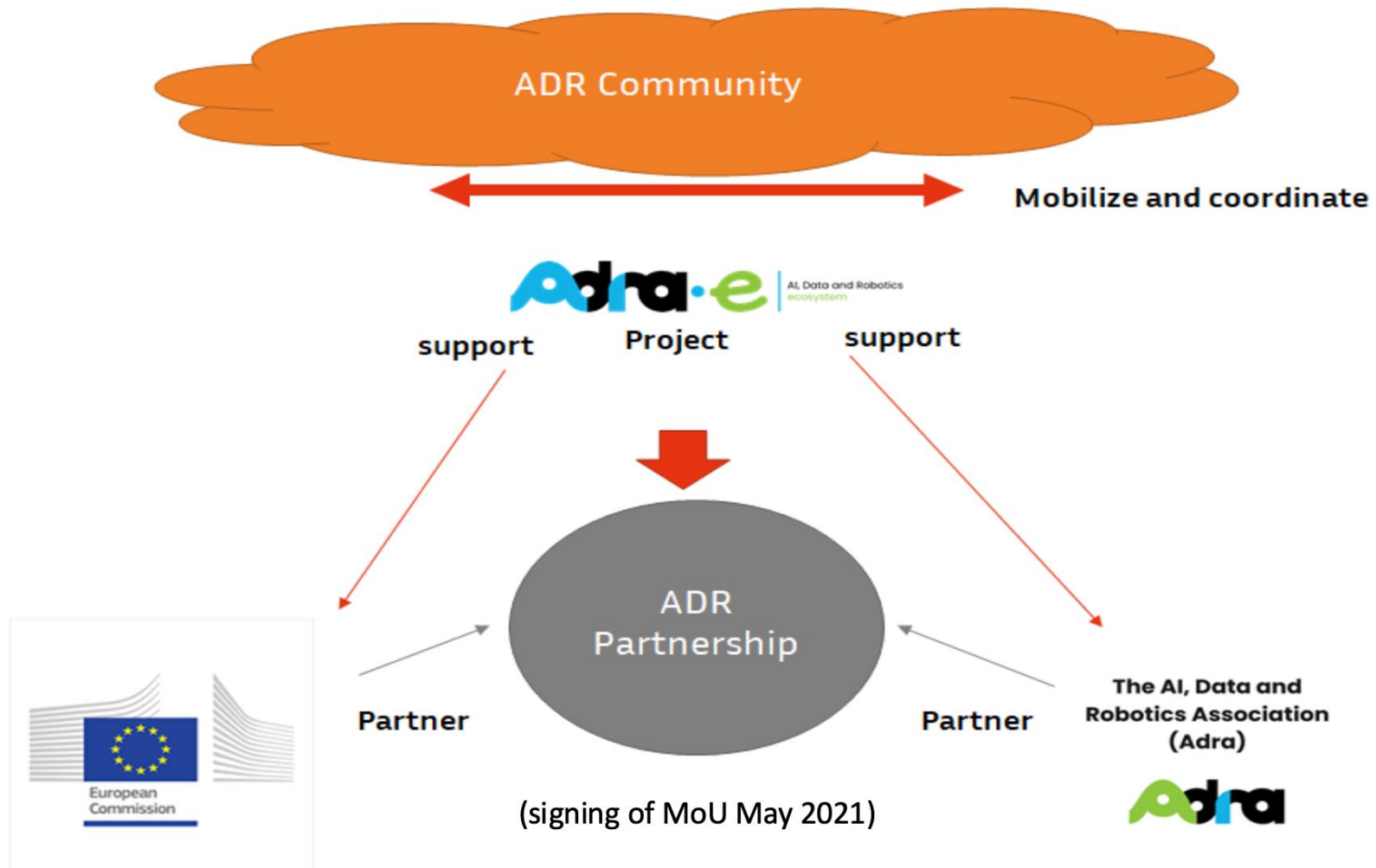
ADR Partnership is an important element in the strategy

partnership objectives

- Secure **European sovereignty over AI, Data and Robotics** technologies and know-how
- Establish **European leadership in AI, Data and Robotics** technologies with high socio-economic and environmental impact
- Reinforce a **strong and global competitive position of Europe** in AI, Data and Robotics



# Adra-e mission: support the AI, Data, Robotics Partnership



# About Adra-e

“-e” stands for eco-system

- Coordination and Support Actions (CSA),
- Started July 2022 – June 2025
- Set-up, and run in close collaboration with Adra



The Adra-e consortium

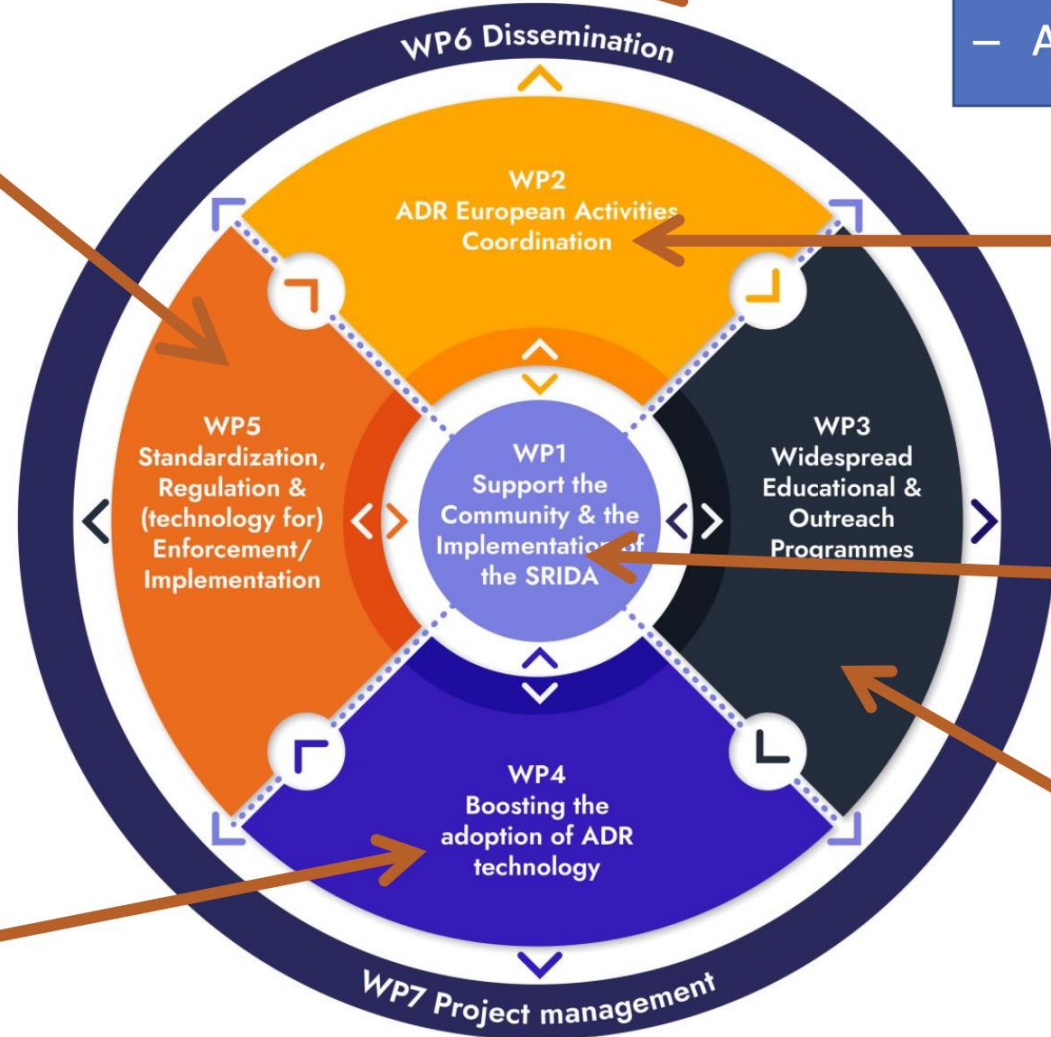
Objective Adra-e ” ... create the conditions for a sustainable, effective, multi-layered, comprehensive, and coherent European AI, Data and Robotics ecosystem.”

But where to start?

# Adra-e products

- State of the art standards and monitoring of standardisation activities
- Mapping of regulations and recommendations to update of the SRIDA

- Support to SME strategy : regional ecosystem to boost innovation and reduce friction
- Increase of trustworthy AI in procurement
- Adoption of ADR technologies in MS/AC



- Communication, dissemination and exploitation
- Web platform
- Adra-e sustainability with Adra

- Mapping of initiatives
- Awareness mechanism

- Connecting communities
- Implementation and update of the SRIDA

- Awareness Centre
- Analysis of externalities of acceptability and trustworthiness
- Choice of an AI Trust Label



# Few Highlights

# Development of the SRIDA Strategic Research Innovation and Deployment Agenda

Objective: Towards a methodology for developing a consensual SRIDA ensuring balance and representation of all relevant stakeholders

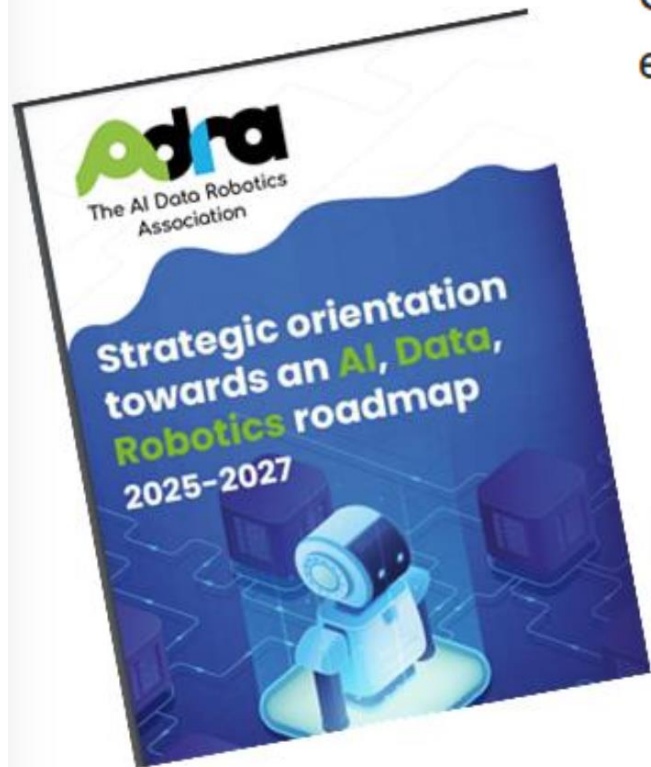
SRIDA development process (starting September 2022) :

- Survey (Nov – Dec 2022)
- 10 pager identifying priorities (March 2023)
- Big ticket sections (Sept 2023)
- 40 page SRIDA (Nov – Dec 2023)
- Update (Sept 2024)

Collaborative effort

- Adra members
- Founding Organizations
- Network of AI Excellence centers
- And more (member states, EC, ...)

**The SRIDA is a living document**



# ADR Awareness Center

**400+**

Available resource

**10**

Resource types


Search... Displaying 420 resources

Category

Target Audience

Type of Educational Resource

Source






**Towards functional safety management for AI-based critical systems**

The webinar provides attendees with a comprehensive understanding of the challenges and opportunities associated with integrating AI into safety-critical systems.

**Category**  
Real-time context aware decision making, Certification and Compliance, Standards, Trustworthiness

**Target audience**  
Private Sector, Researchers and Academic

**Source**  
Adra-e








**AI and Education Sciences**

This lecture overviews the impact of AI on Education Sciences. First an overview of Machine Learning is presented, focusing on the use of data in learning.




**Category**  
Systems, methodologies, hardware, and tools

**Source**  
AI-OnDemand

**AI and Book Publishing**

This lecture overviews the relation between AI and book publishing. First, an informative summary of "What is AI?" is presented, containing topics such as Symbolic AI, Data, Machine Learning (Clustering, Classification and Neural Networks).

**AI in Medical Imaging**

This lecture overviews the relation between AI and medical imaging and diagnosis.

• **What does this Centre provide?** AI, Data, and Robotics educational resources and materials produced in the EU

• **Who is this for?** Everyone. Every project and organization in Europe including the general member of the public

• **How can I contribute and publish my resources?** The Centre designed a very simple process for you to submit and publish your resources.

• ...



# Spotlight events

## ADR Forum

1st edition (Versailles): 08-09 Nov 2023

2nd edition (Eindhoven): 04-05 Nov 2024



## ADR Awareness Day

1st edition (online): 20 Oct. 23

2nd edition (online): today!

### ADR AWARENESS DAY SEMINAR

AI TRUST LABEL FOR AI SOLUTIONS

  
ROBERTA CALEGARI
   
ANDREAS HAUSCHKE
   
CATELINE MULLER
   
HENRI SOHIER

MODERATORS

  
EDWARD CURRY

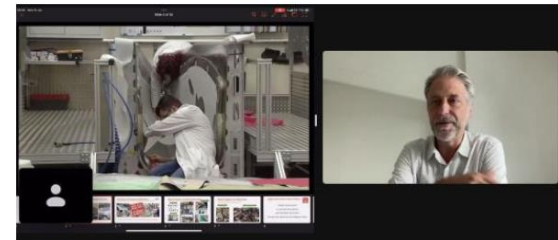
SKILLS, ETHICAL, AND SOCIETAL EXTERNALITIES OF ADR

  
RAFIA INAM
   
COLIN VAN NOORDT
   
JOSEFIN ROSEN

  
FREDRIK HEINTZ

  
AI, Data and Robotics ecosystem

European Convergence Summit  
 1st edition (online): 19 June 2024  
 2nd edition (Brussels): 09 April 2025



# Future-Ready: On-Demand Solutions with AI, Data, and Robotics

upcoming

## Date:

- 18-19 February 2025

## Location:

- Brussels

## Participants:

- ADR projects, AioD engineers, and Adra topic groups

## Objectives: :

- Disseminate project results and consolidate and sustain the expertise and know-how
- Identify emerging R&I challenges to inform the next iteration of the SRIDA and future project rounds.
- Engage projects on the AioD platform through initiatives like code labs, hands-on sessions, and more.



**Joint-effort by AioD and Adra**





The AI Data Robotics  
Association

# Join us!

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 [/company/adr-association/](https://www.linkedin.com/company/adr-association/)

 [secretary-general@adr-association.eu](mailto:secretary-general@adr-association.eu)





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**Emanuela Girardi**  
**President**



The AI Data Robotics  
Association

## Agenda

- **Adra & the ADR Partnership: Our Vision, Mission, Goals**
- **Key Achievements**
- **Plans for the future**
- **What can we do together**
- **Summary & next steps**

December 17,  
2024



# Vision, Mission, Goals





# BMW UPDATE





**Adra was founded in 2021 to bring together the European communities of AI data and robotics**



The AI Data Robotics  
Association

A Joint Initiative by



# Consulting with member states on their ADR ecosystems



Emanuela Girardi




## AI



Research Vice President  
Fredrik Heintz





Industry Vice President  
Stefan Leijnen





Sophia Karagiorgou





Morten Irgens





Petri Myllymäki





Robert Bruckmeier




## Data



Research Vice President  
Edward Curry





Industry Vice President  
Thibault Jongen





Anne Fleur van Veenstra





Nozha Boujemaa





Seppo Tikkanen





Stefan Van Baelen




## Robotics



Research Vice President  
Juha Rönning





Industry Vice President  
Francesco Ferro





Christophe Leroux





Ennio Chiatante





Krzysztof Walas





Roy Fraser






# Team Adra - Secretariat



**Philip Piatkiewicz**  
**Secretary General**



**Amaya Garmendia**  
**Membership  
ecosystem and  
Project Manager**

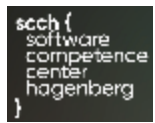
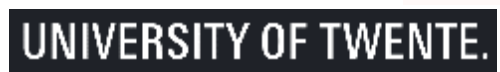
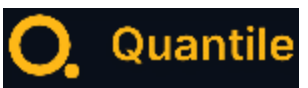
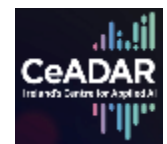


**Mei Shan Krishnan**  
**Campaigns and  
Events Manager**

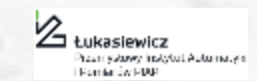


**Christine Gosseye**  
**Finance and Office  
Manager**

# Our Members...



DEFINED.AI



# Enhancing European competitiveness and productivity



**1** Creating a strong, coherent, and effective ecosystem for AI, Data, and Robotics



**2** Maintaining and strengthening European industrial leadership in robotics and trustworthy AI



**3** Integrating and connecting the European research landscape around AI, data and robotics



**4** Developing a powerful strategy for skills development and attracting talent to Europe



**5** Developing ADR technologies with high socio-economic impact to reinforce Europe's strong and globally competitive position



**6** Ensure societal trust in data and robotics

## Strategic Research and Innovation Agenda (SRIDA)

- Vision (North Star) for Europe's Research and Innovation roadmap
- European ecosystem approach

## High-impact pilots for industry: accelerating AI (software) – robot (hardware) convergence

- Sovereign Development of intelligent machines
- Control over full technology stack

## Challenge-based (stage-gate) approach to grow champions

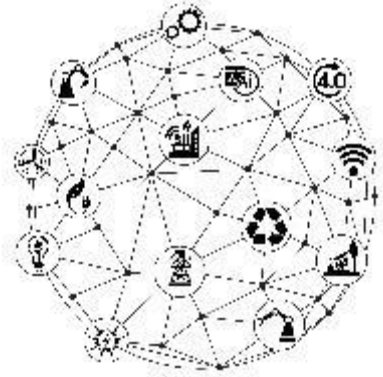
- Application discovery and quicker deployment
- Close gap between Research, Industry and end-user

## Creating consonance across member states and ecosystems

- Overcome fragmentation in priorities, funding, and policy
- Achieving multi-level alignment of objectives



# Value to special target groups



## Big industry

Adra helps companies to bring the **strategy discussion** and analysis to next level leveraging the ADR convergence.



## SMEs & startups

**Enhance their products and services** through the convergence of AI, Data and Robotics and to enlarge the application domains. It allows them to **position** themselves in the developing ADR field and towards the socio-economic challenges.



## RTOs & universities

Shape Europe's **research objectives** in solving major challenges. Adra offers its research members opportunities to long-term **collaboration with industry** and to maintain sustainable ADR excellence.

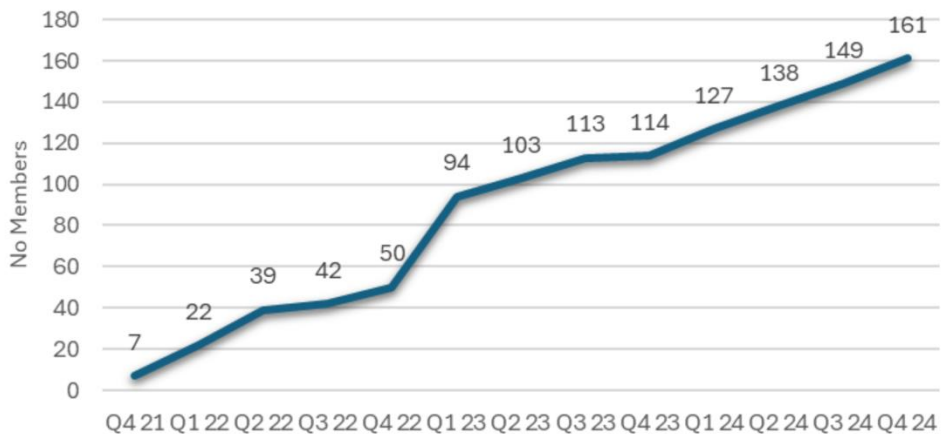


## End users, public sector & NGO's

Adra supports end users, public sector and NGOs in **using** ADR technologies to raise productivity and advance socio-economic targets.

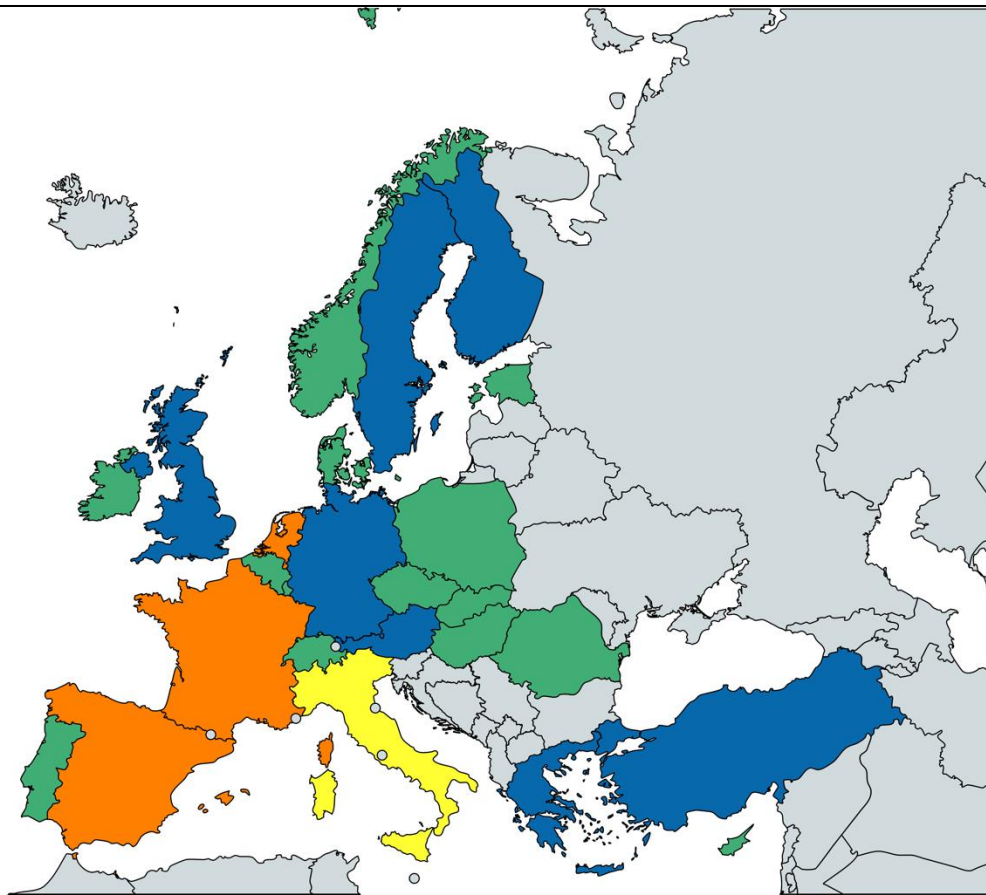
# Membership growth

Number of Adra Members

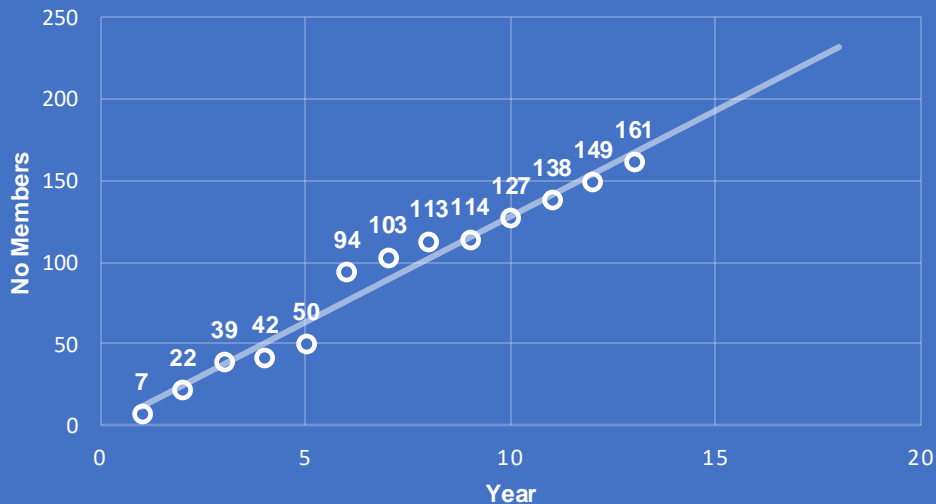


ADRA members

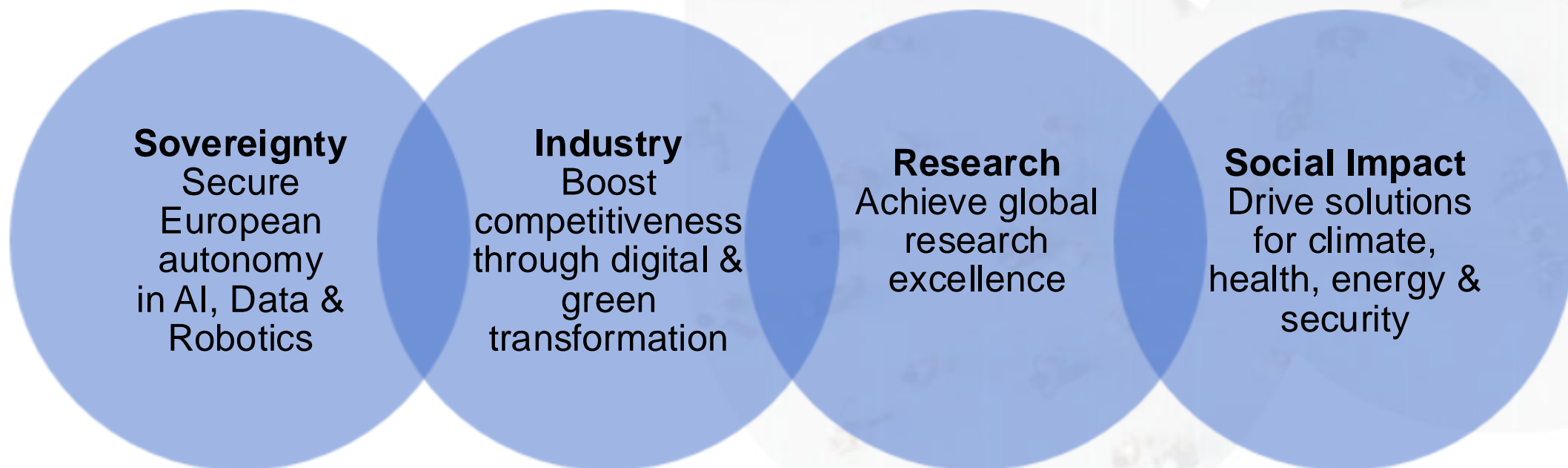
- Up to 5 members
- Up to 10 members
- Up to 15 members
- Up to 21 members



TREND



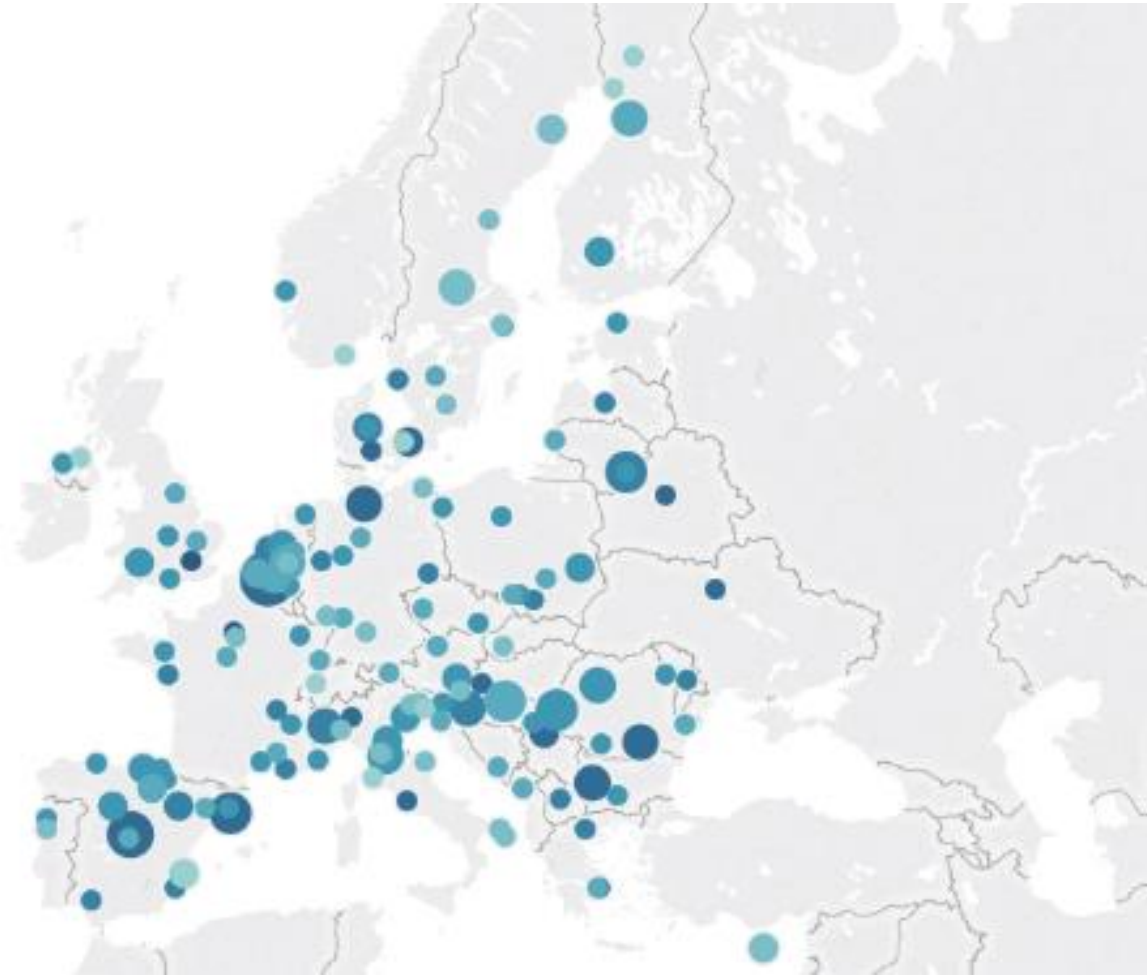
# The AI, Data and Robotics public-private partnership (2021-2030)





## A United Community of Excellence

- **Integrated Network:** Connecting AI, Data & Robotics expertise across Europe
- **Multi-Stakeholder Collaboration:** Industry + Research + Academia + Government
- **Research Excellence:** Europe's top minds in ADR technologies
- **Industry Bridge:** Transforming research into market solutions
- **Geographic Reach:** Active presence across Member States
- **Rapid Mobilisation:** Ready expertise for strategic initiatives



# Key Achievements of the ADR-partnership



# SRIDA: The Strategic Research Innovation and Deployment agenda

## Big Tickets

**#1: Ground-breaking technological foundations in ADR**

**#2: Effective and Trustworthy General-Purpose ADR**

**#3: An interoperable and integrated framework for data and model ecosystems**

**#4: Next generation smart embodied robotic systems**

**#5: Developing ADR technology for the sciences**

**#6: Research, innovation, and tools for compliance**





# Support European Commission's AI data & robotics agenda

## Strategic Community Mobilisation & Implementation Support

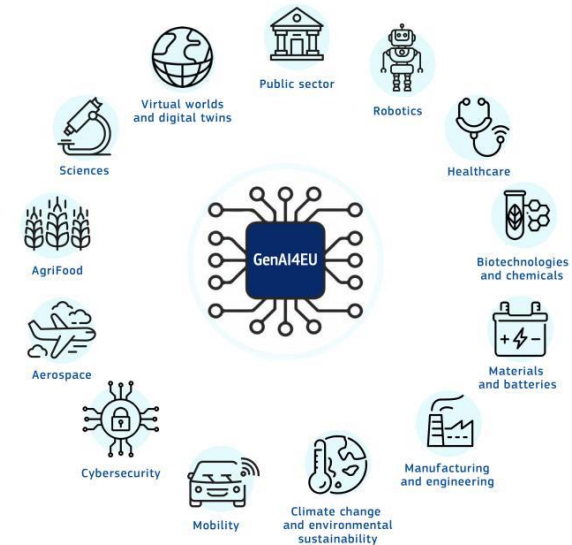
GenAI4EU

Applied AI



### Key Actions

- Bridge between Commission and ADR community
- Knowledge dissemination to stakeholders
- Community engagement facilitation
- Expert feedback coordination
- Call participation coordination
- Connecting domain experts with implementers
- Rapid expert mobilisation for critical topics



## Core Innovation Areas

Generative AI Applications

- Manufacturing
- Robotics

## Sector-Specific Taskforces

- Energy & Sustainability
- Agrifood Systems
- Healthcare Innovation
- Legal & Regulatory
- Digital Manufacturing (Factory Automation, Digital Twin, Logistics)

## Cross-Cutting Groups

- Ecosystem Mapping & Information Repository
- Mobility & Smart Urban Solutions
- Innovation & Technology Uptake
- Education & Work Transformation
- Inspection & Maintenance
- Policy
- Standardization

## Strategic Coordination

- SRIDA Implementation



15  
Topic  
groups





# GenAI for Robotics policy paper and technology roadmap



## Empowering Europe Through GenAI & Robotics Critical Convergence

- **GenAI** enhances robot capabilities: environment understanding, natural interaction, adaptation
- **Robots** give GenAI physical presence: real-world data, testing, embodied intelligence

## European Opportunity

- Focus on **trustworthy, safe, frugal** solutions
- Bridge **research-to-market gap**

## Strategic Actions

- Build sovereign foundation models reflecting **EU values**
- Invest in physics/**mechatronics** for real-world impact
- Develop **integrated HW/SW** approaches
- Create European **standards** for safe deployment





# Outreach in 2024

## Global stakeholder development and community outreach

- ✓ ADRF 24, Eindhoven
- ✓ European Manufacturing Conference, Brussels
- ✓ Hannover Messe 2024, Hannover
- ✓ European Research & Innovation DAYS, Brussels
- ✓ Hungarian Tech Week, Budapest
- ✓ Viva Tech 2024, Paris
- ✓ ICRA, Rotterdam
- ✓ NTU Singapore-Europe Dialogue on Trust and safe AI, Singapore
- ✓ International AI summit, Brussels
- ✓ Robotic Festival 2024, Pisa
- ✓ European AI Alliance, Madrid
- ✓ Sido, Lyon

...and many more!



# Align, Act, Accelerate

Shaping tomorrow: current initiatives and future directions

A large, stylized version of the Adra logo is positioned in the bottom right corner of the slide. It is rendered in a light blue color, matching the overall theme of the presentation.

## Focus Areas

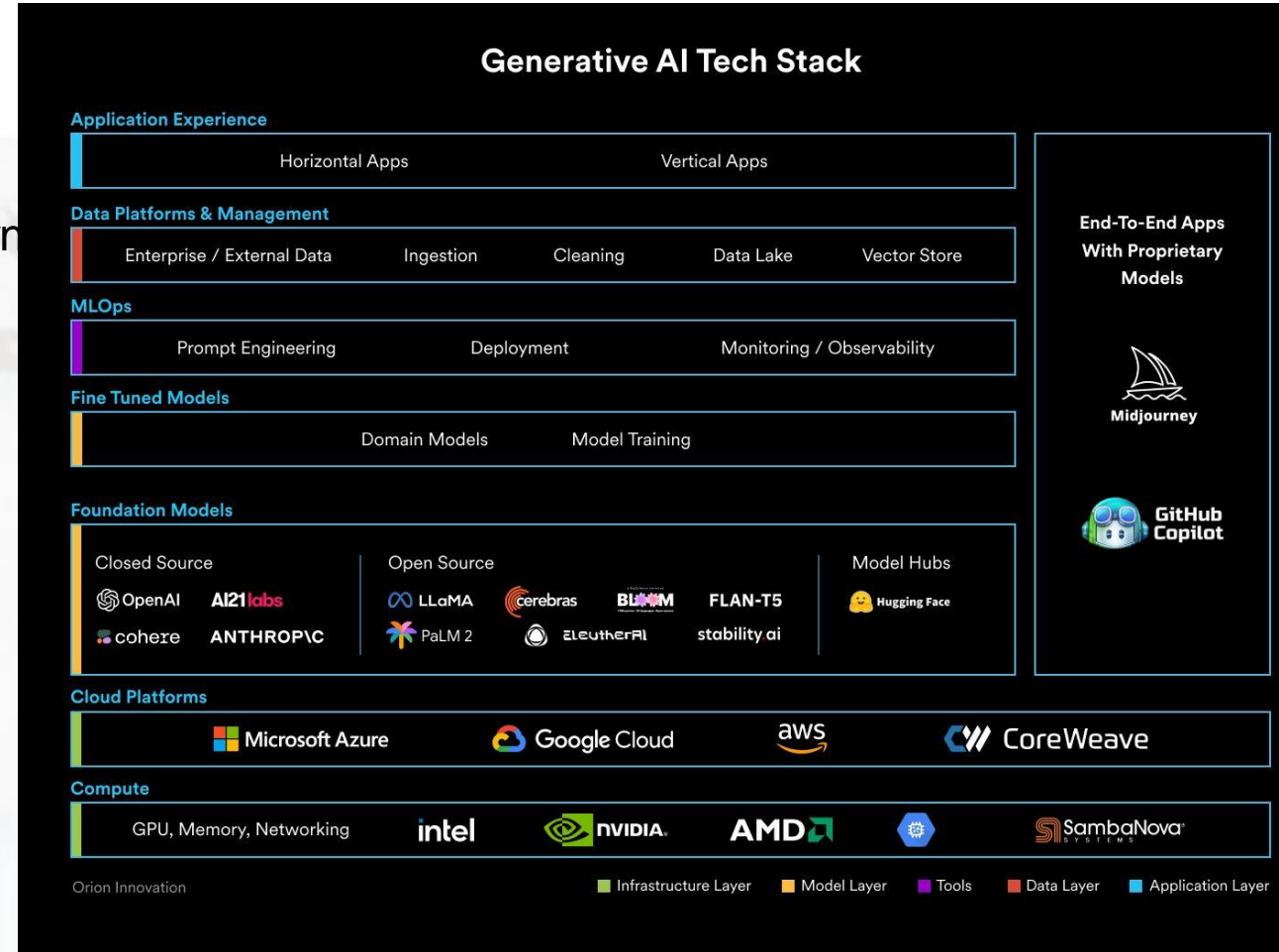
- The **full AI stack** sovereignty
- Trustworthy GenAI development
- Robotics – AI ecosystem integration
- Advanced R&D Research: Neurosymbolic AI – Learning and reasoning

## Industrial Strategy

- Strengthening EU competitiveness
- Build comprehensive **AI Factories**
- Support supply chain resilience
- Foster **research-industry collaboration**

## Key Investments

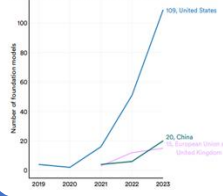
- Large-scale testbeds and deployment
- **Foundation models reflecting EU values**
- Human-centric innovation and skills
- **Cross-border coordination**





# The European Challenge: Sovereign Foundation Models

Number of foundation models by select geographic area, 2019-23  
Source: Sebastian et al., 2023 | Chart: 2024 AI Index report



## Strategic Imperative

- Foundation models are becoming critical infrastructure
  - Current dependency on non-EU technologies creates risks
  - Need for European values-aligned AI development
- Establishment of **Adra Generative AI Taskforce in 2023**



## Key Insights

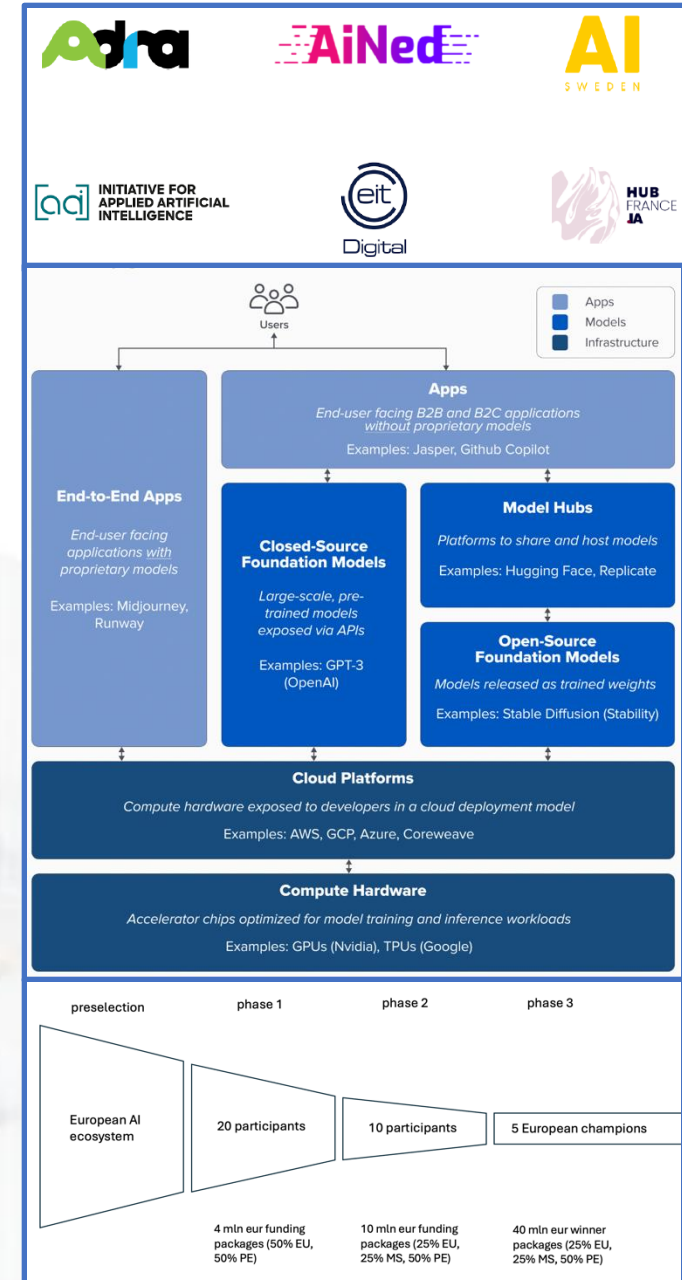
- Fostering a more open and competitive market requires **investable European champions in generative AI**
- Downstream effects, enabling rise and development of large AI-based industrial ecosystems in Europe
- Challenge-based instruments create delivery-based competitiveness



## Key Results of GenAI Taskforce

- Support for launch of the AI Innovation package (January 2024)
- Alignment with Draghi report “Future of European Competitiveness”
- Support for AI BOOST challenge mechanism
- Proposal for establishing a **challenge-based generative AI incubator in ALT-EDIC (LLM-BRIDGE)**

*Building Europe's AI future through sovereign foundation models*



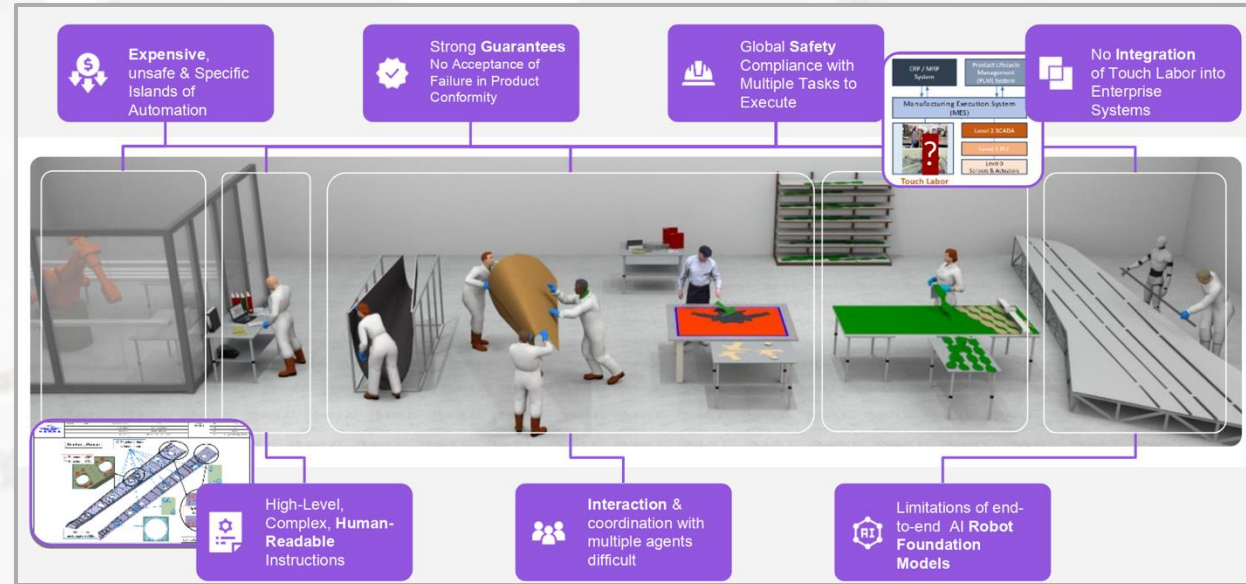
# Intelligent Robotics for Industry – Identify High-Impact Pilots & Applications

## Objective

Identify high-impact applications of (Gen)AI-enabled robotics in the manufacturing industry to serve as reference points for Europe’s Intelligent Robotics Roadmap

## Deliverables

- Broad **consultation** on representative industrial ecosystem (end-users !)
- **Market Pull** in complement to Technology Push
- High-impact **challenges** for competitiveness, societal development, and European autonomy
- Required pre-competitive technology **capabilities & infrastructures**



A challenge : improving productivity of manual work in the manufacturing industry through AI-powered robotics !

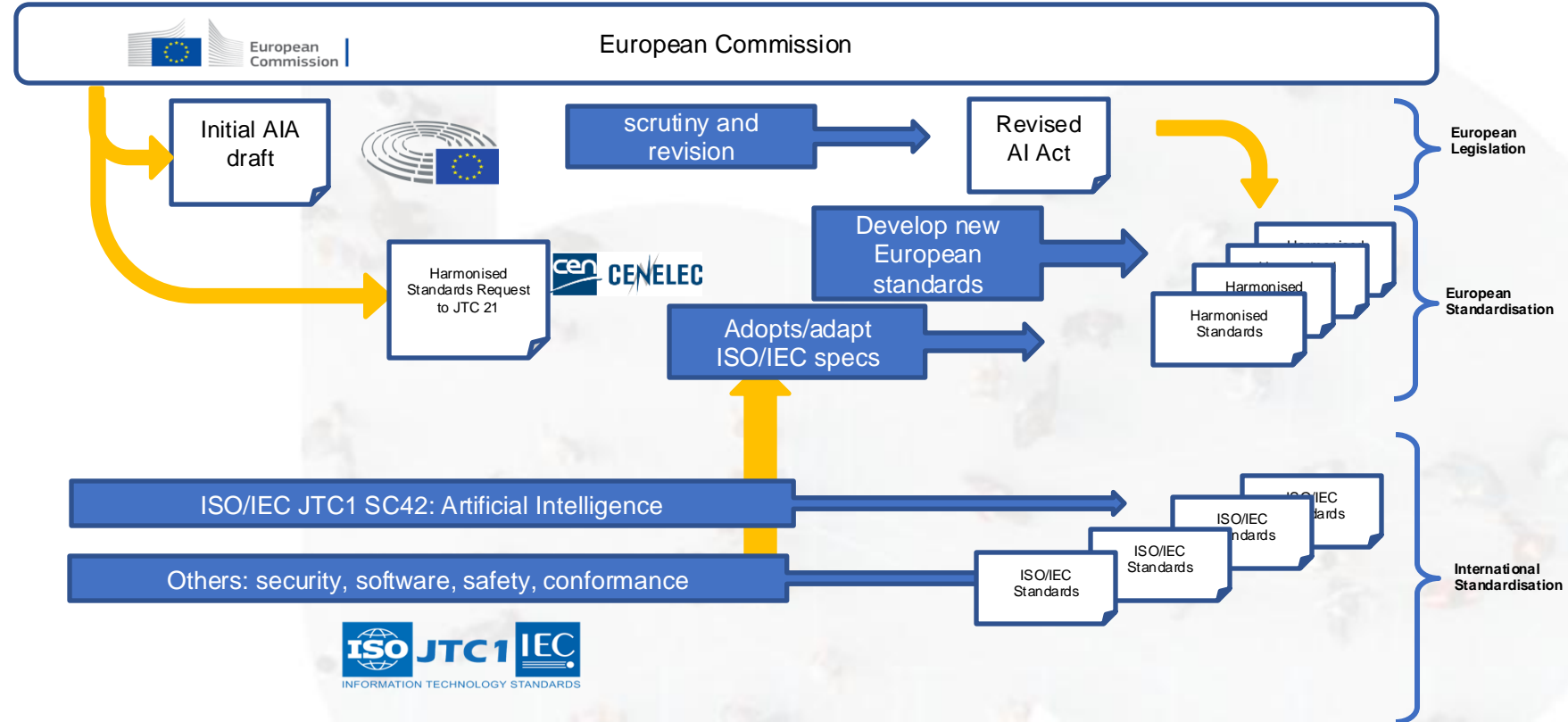
# Standards: Supporting AI Act Implementation Through Standardization

**Harmonised Standards (HS) under development**

**Compliance to HS by Providers conveys presumption of conformity**

**ADRA's Strategic Role**

- Create **awareness** on the importance of standard
- Bridging **industry expertise with regulatory requirements**
- Supporting development of domain-specific standards
- Facilitating consensus between stakeholders





**W**hat can **w**e do  
**t**ogether?



## Bring your national industry & research players into Adra

Adra Association in numbers

160

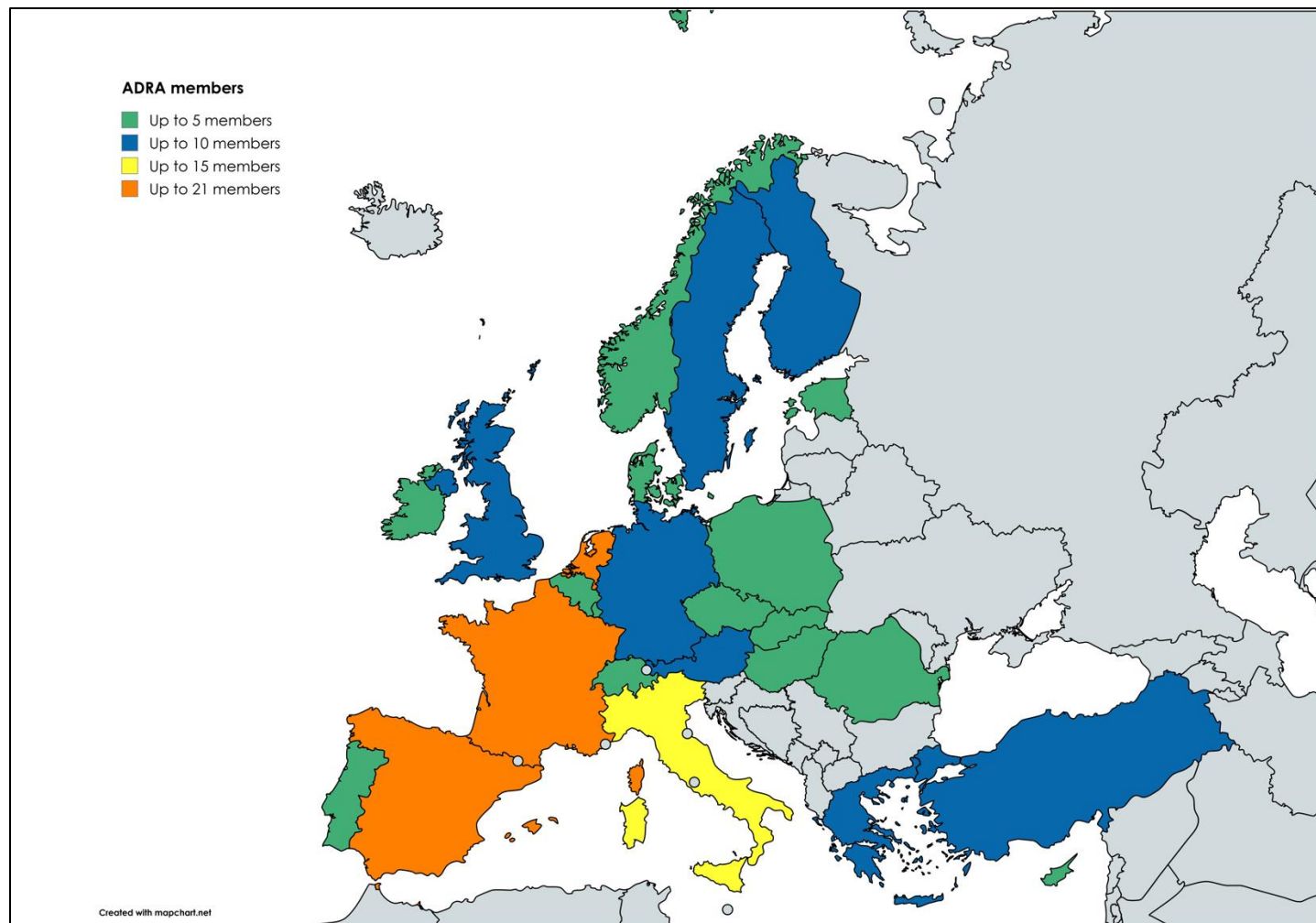
Members

26

EU Countries

15

Topic Groups



# Let's develop new partnerships together



Liberté • Égalité • Fraternité  
RÉPUBLIQUE FRANÇAISE

Premier ministre

Secrétariat  
général pour  
l'investissement

## AiNed



### European Sovereignty in AI, Data and Robotics

Innovation and competitiveness are drivers for Europe's growth as a though-



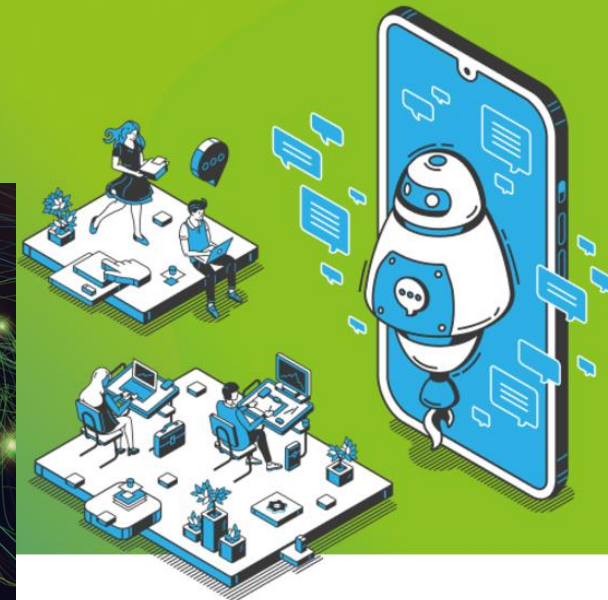
AI, Data,  
Robotics  
Forum  
#ADRF24

European Sovereignty  
In AI, Data  
And Robotics

4 - 5 November 2024

Eindhoven, Netherlands

SAVE THE DATE





# Summary

- **Building Europe's Innovation Ecosystem**

ADRA integrates AI, Data, and Robotics to foster competitiveness and sovereignty

- **Driving Collaboration**

Bridging fragmentation with unified efforts across Member States and stakeholders

- **Advancing Strategic Initiatives**

Supporting critical areas like generative AI, robotics, and trusted innovation.

- **Empowering Impact**

Creating a robust community to address Europe's strategic priorities.



# Join us in shaping the future of Europe

- Bring national players into Adra
- Collaborate with Adra to strengthen the European ecosystem



**Contribute to innovation, sovereignty, and sustainable growth**

## Panel Discussion with:



**Kimmo Rossi & Cem Gulec**  
DG Connect, European Commission



**Moderator:**  
**Professor Edward Curry,**  
Insight Centre for Data  
Analytics



# Towards ecosystem of trust and excellence in ADR



**Stefan Leijnen,**  
Head of EU relations  
AiNed



**Fabio Pianesi,**  
Distinguished Fellow FBK and  
Senior Advisor for EU Affairs  
ARUBA/Dynamo



**Nabil Belbachir,**  
Director BoD  
euRobotics aisbl



**Roy Fraser,**  
Global Product Leader  
ABB



**Robert Bruckmeier,**  
General manager, Computing  
and Artificial Intelligence  
Network  
BMW Group



**Moderator:**  
**Philip Piatkiewicz,**  
Secretary General



## Call for Proposals – Open Access Book

# Artificial Intelligence, Data and Robotics: Foundations, Transformations, and Future Directions

Educate the reader on techniques and technologies for AI, Data and Robotics

Explore cutting-edge theories, technologies, methodologies, and **best practices** within industrial and public sector scenarios

Provide a **basis for understanding** the scientific foundations, the transformation potential of the technologies, and the future research challenges

Two primary audiences:

1. Researchers and students in the fields of AI, Data and Robotics and associated disciplines
2. Industrial practitioners

## Deadline for abstracts: **6th Jan 2025**

For further information: [heike.vornhagen@insight-centre.org](mailto:heike.vornhagen@insight-centre.org)





The AI Data Robotics  
Association

# THANK YOU

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