

The AI Data Robotics Association

> Accelerating European AI, Data, and Robotics sovereignty and competitiveness to address shared challenges.

> > AI-DATA-ROBOTICS BROKERAGE

06.06.2025



Association

Data Robotics











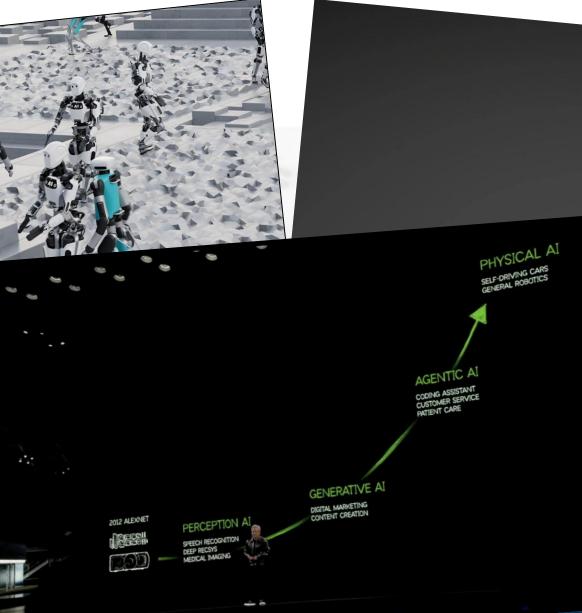














BNIW UPDATE

Building Europe's ADR Innovation Ecosystem

A United Community of Excellence

• **Single point of contact:** Adra is the EC's primary partner for advancing AI, data, and robotics R&I in Europe

 Integrated Network: Connecting AI, Data & Robotics expertise across Europe
 Multi-Stakeholder Collaboration: Industry + Research +

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









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)

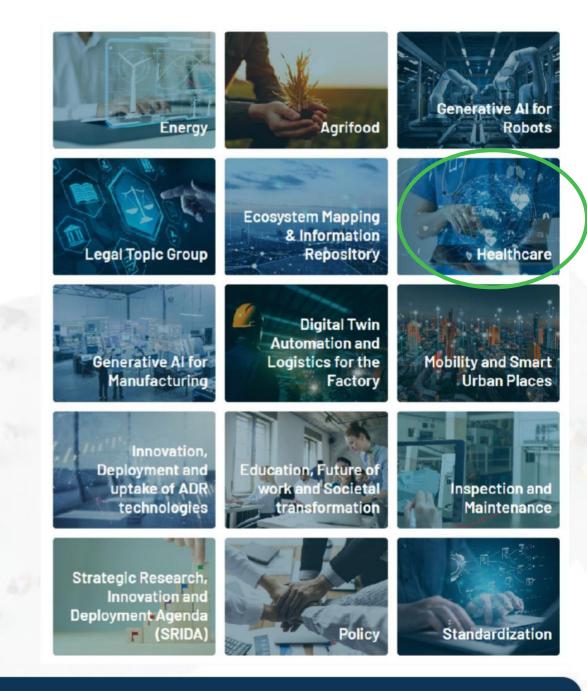
Cross-Cutting Groups

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

Strategic Coordination

SRIDA Implementation









Five Strategic Pillars to Enhancing European competitiveness and productivity

Strategic Research Innovation and Deployment Agenda (SRIDA)

- Vision (North Star) for Europe's Research and Innovation orientations
- Roadmap for developing a resilient European ecosystem

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

convergence

- Spur the development of sovereign AI technologies, foundational models and intelligent machines
- European control over full technology stack

Challengebased(stage-gate) approach to grow

- champions
- Accelerate progress through early TRL levels, application discovery and quicker deployment
 Bridge gap between applied Research and Industry (enduser) needs and drives skills development

Leading on Harmonised/Internatio nal Standards for Gen(AI) in robots

- Currently no international standards, yet growing number of use-cases and market worth 10s billions EUR
- Huge opportunity for European manufacturers to create and certify quality products and structure value chains.

Creating consonance across member state policies and ecosystems

- •Overcome fragmentation in priorities, funding, and policy to concentrate focus and investments
- •Achieving multi-level alignment of objectives across layers of European governance



Representing EU and Horizon Europe associated country innovation

ecosystems



Emanuela Girardi





✓ Building Europe's Innovation Ecosystem

- Influence EU Policy & Standards: Shape supportive R&D roadmaps and legislation.
- Forge Key Connections: Network across sectors and access shared R&D infrastructure
- Fuel Innovation: Secure funding and resources to develop new technologies.

✓ Driving Collaboration

- Co-create Solutions: Access shared insights and co-design pioneering projects.
- Innovate Collectively: Engage in pre-competitive R&D for shared IP and market understanding.
- Unite for Impact: Build trusted networks to solve industry-wide challenges.

✓ Advancing Strategic Initiatives

- Direct EU Strategy: Shape policy and strategic R&D agendas for future growth
- Gain Strategic Advantage: Leverage EU insights and support for your key projects
- Lead Market-Driven Innovation: Use early intelligence to design impactful initiatives.

✓ Empowering Impact

- Achieve Tangible Results: Generate new business, IP, services, and market success.
- Enhance Performance: Implement best practices, boost efficiency, and accelerate your strategy.
- Magnify Your Voice: Solve critical challenges and strengthen collective industry influence.





GET IN TOUCH



Co-funded by the European Union

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Focus Areas

- The full AI stack sovereignity
- Trustworthy GenAI development
- Robotics Al ecosystem integration
- Advanced R&D Research: Neurosymbolic AI Learning and reaso

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

pplication Experience					
Horizontal	Apps	Ve	ertical Apps		
ata Platforms & Management					End-To-End Apps
Enterprise / External Data	Ingestion	Cleaning	Data Lake	Vector Store	With Proprietary
1LOps					Models
Prompt Engineering	Deplo	ployment Monitoring / Obse		Observability	
ine Tuned Models					<u></u>
	Domain Models	Model Trainin	g		Midjourney
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	intel				🔄 SambaNova
GPU, Memory, Networking					

Generative AI Tech Stack



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 !



The European Challenge: Sovereign Foundation Models

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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



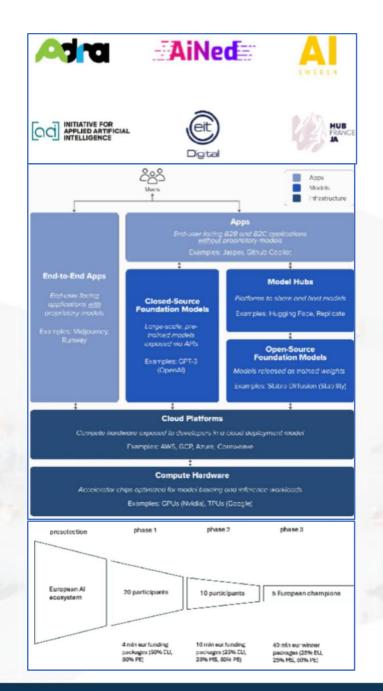
Key Results of GenAI Taskforce

• Support for launch of the AI Innovation package (January 2024)

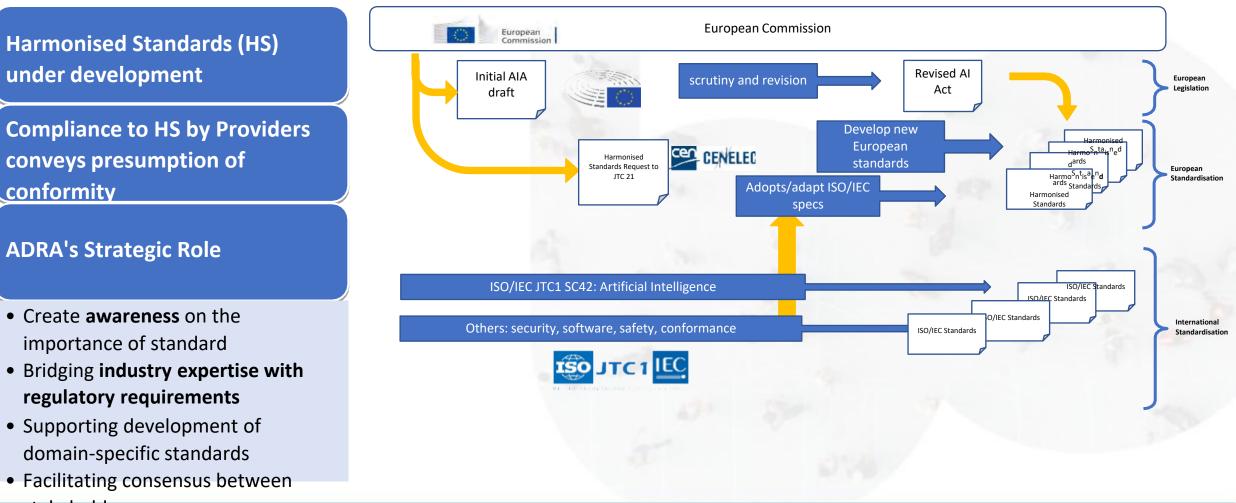
- Alignment with Draghi report "Future of European Competitiveness"
- Support for AI BOOST challenge mechanism

• Proposal for establishing a challenge-based generative AI incubator

Building Europe's AI future through sovereign foundation models



Supporting Al Act Implementation and international standards



stakeholders



Member state initiatives to innovate and secure global competitiveness of the EU

Details in backup



- **1.** Create a **compelling goal for EU's digital future,** embraced by Europe's citizens
- **2.** Encourage **public procurement of EU-based AI** to accelerate adoption and drive innovation
- **3. Boost European investments** in ADR, securing EU-based ownership and command
- **4. Strengthen the digital single market** to ensure fast scaling of AI offerings across EU member states
- **5.** Ensure **consistency of AI Act standardization with sector-specific** regulation and standards
- **6.** Ensure the **completeness of the entire AI value chain** to enhance the EU's sovereignty