

EUFMX

EFFRA
EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION

MADE IN EUROPE

GenAI in Manufacturing

Manufacturing Partnership Days 2026

Funded by the European Union

Grant Agreement N. 101299128

AGENDA

Introduction to the Panel

Introduction of the Panellists

Invited Speech: genAI for Manufacturing and Robotics in the EU AI Continent Action Plan

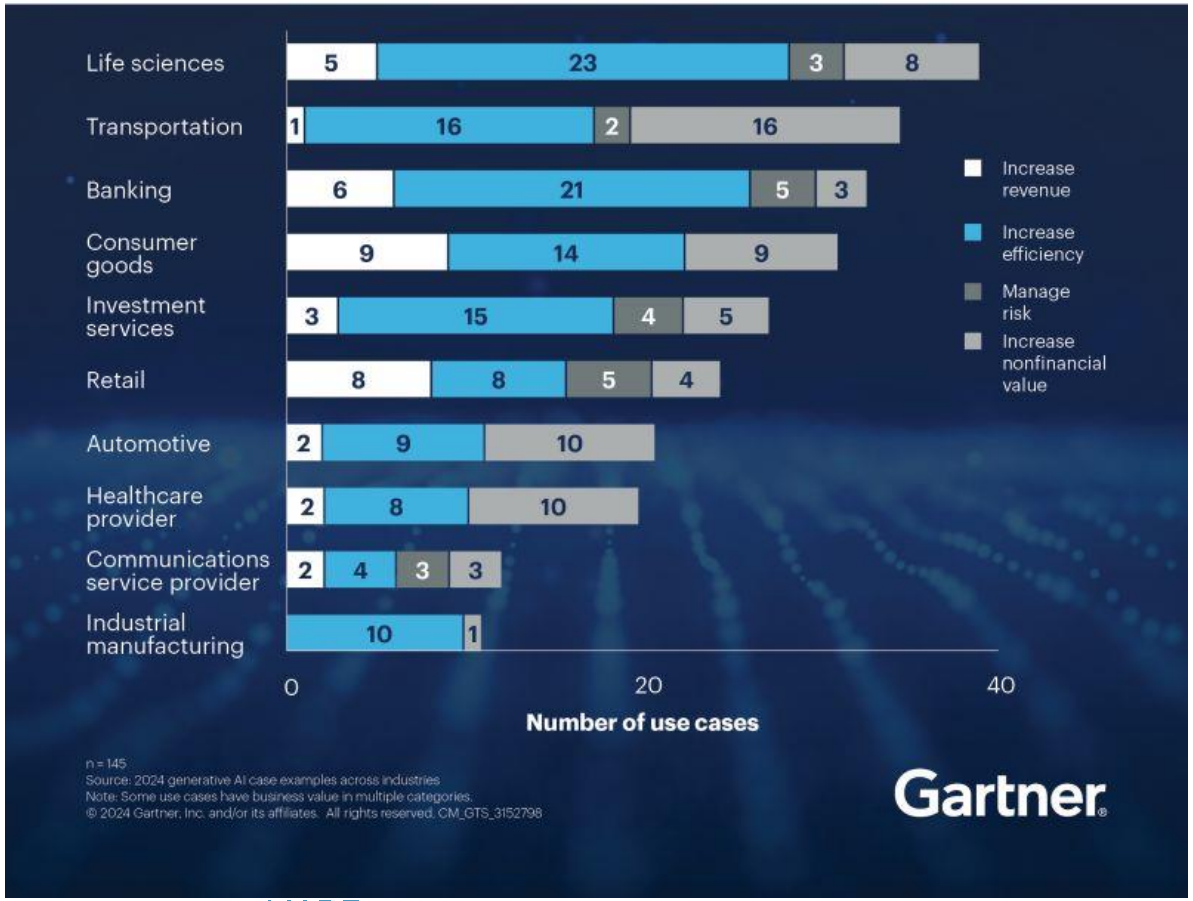
Q1: **Physical AI** as the Manufacturing-specific main application field for genAI

Q2: **Agentic AI**, Human-AI interaction, Autonomy levels and Decisional Processes

Q3: **The Future of EU Manufacturing** in the global trends landscape

Final Remarks and Conclusions

Is genAI revolutionising manufacturing & robotics?



Top GenAI Use Cases

- Content Marketing
- Content Creation
- Audio Creation
- Customer Service
- Code Generation
- Task Automation
- Report Generation
- Supply Chain Optimization
- Personalized Learning

capicua

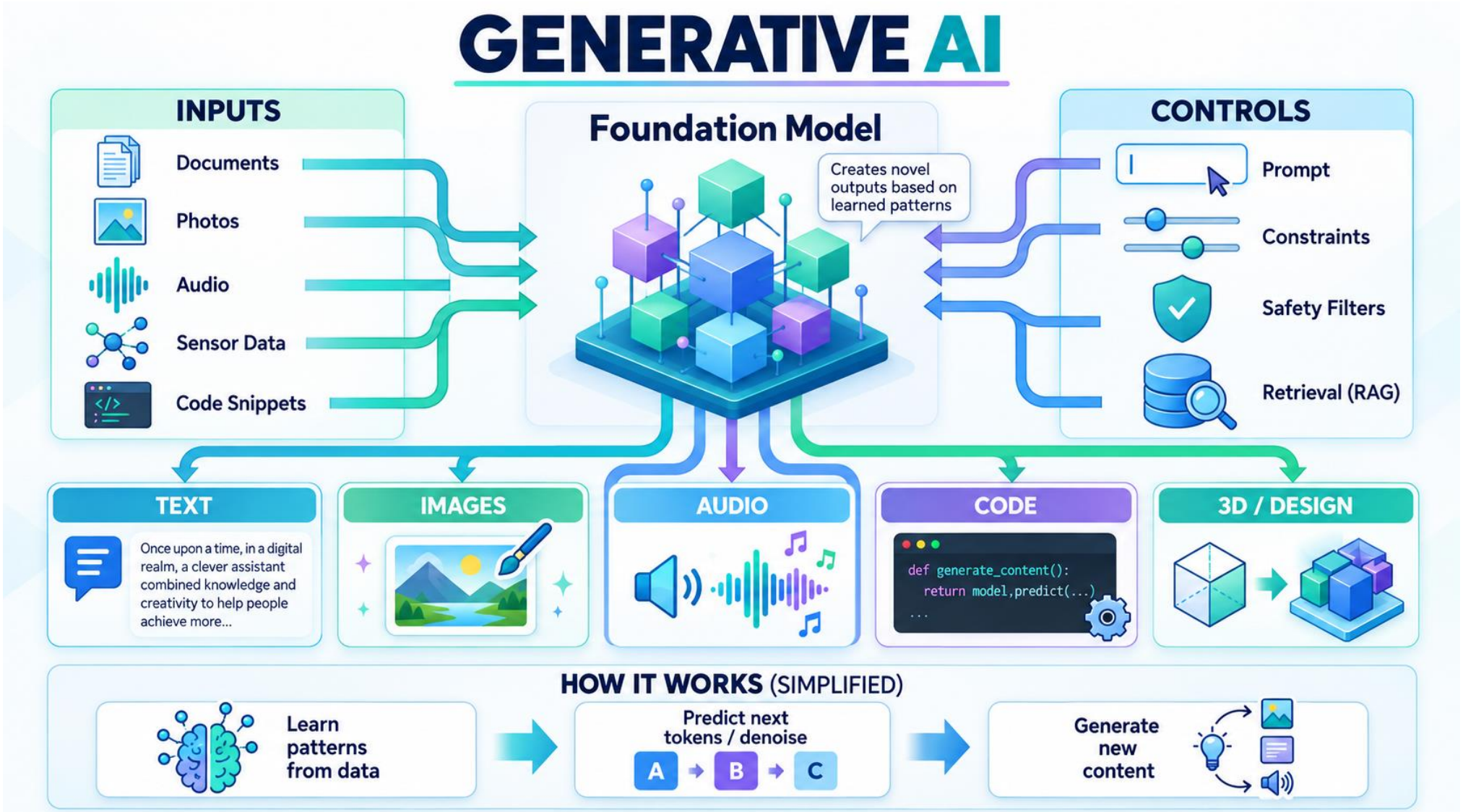
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EUF MX

AIOTI paper genAIoT (to be published)

Alliance for AI, IoT and Edge Continuum Innovation



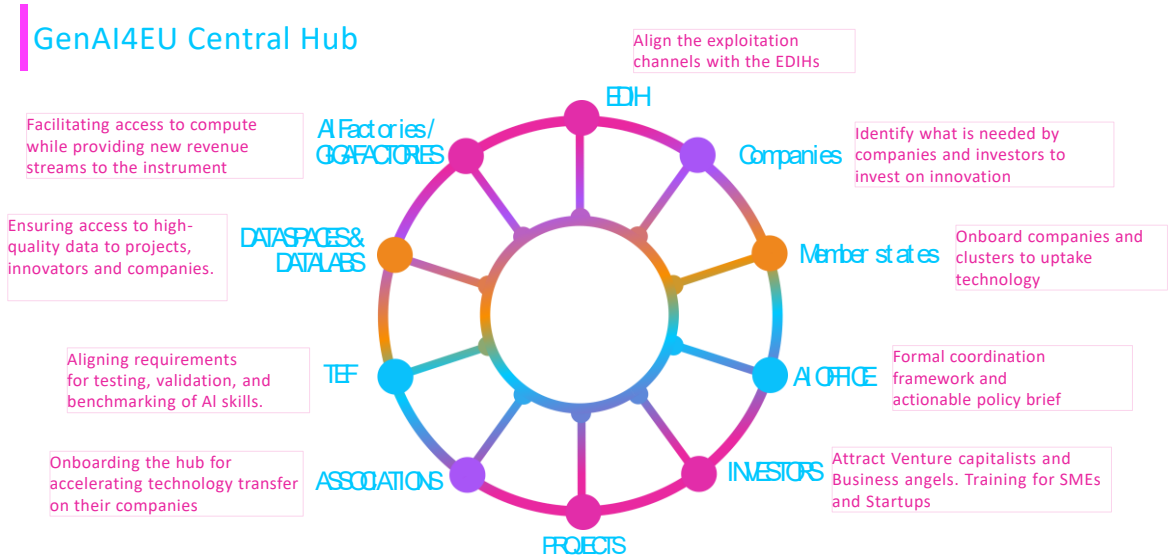
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BDVA task force on genAI & genAI4EU Central Hub





AIM NET White Paper genAI in Manuf.

AIM-NET
Artificial Intelligence in Manufacturing Network

GENERATIVE ARTIFICIAL INTELLIGENCE IN MANUFACTURING

White paper

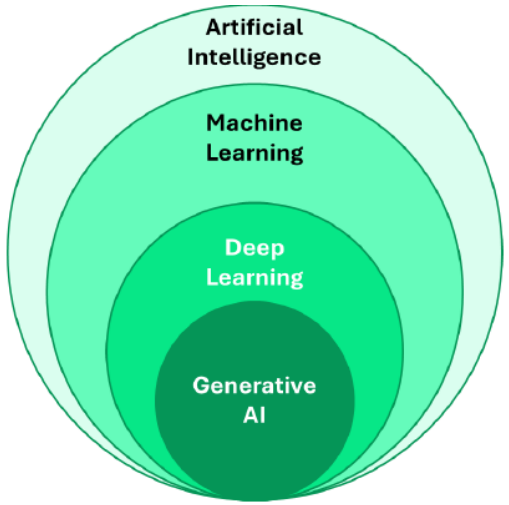
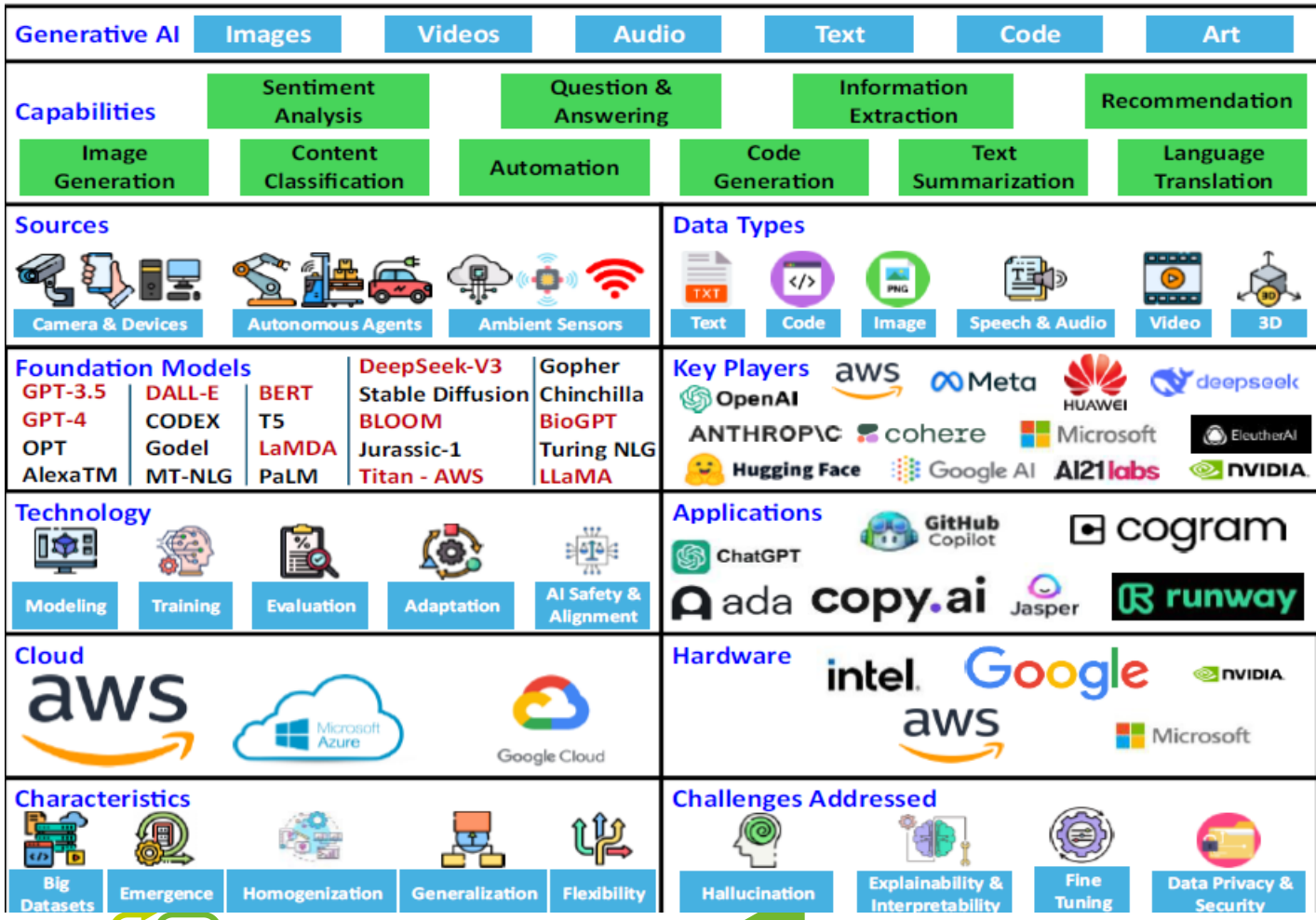


Figure 1 GenAI categorization.



WMF 2026 Report: AI is leaving the screen



01

AI is leaving the screen

From chatbots to agentic and physical AI: systems that plan, decide and act alongside people and machines.

Panels VIII & IX

VIII · Agentic AI as an Autonomous Value Creation Technology

IX · Physical AI & Humanoid Robotics: Human-Robot Collaboration

02

Data becomes industrial infrastructure

Shared, trusted and sovereign data is the real condition for AI to create value at scale.

Panel VII

VII · Industrial Data Analytics, Digital Twins & Simulation-Led Processes

03

Resilience is the new efficiency

Supply chains and production systems redesigned to absorb shocks, not only to minimise cost.

Panels II & IV

II · Greater Resilience: Steering Supply Chains in New Directions

IV · Digital Procurement & Cyber Resilience in Manufacturing Powerhouses

04

Sustainability beyond compliance

Regulation and consumers raise the bar; leading manufacturers turn it into innovation and value.

Panel III

III · Sustainable Manufacturing: Regulatory & Consumer Mandates

05

People at the centre

Technology that augments workers, skills that anticipate change, leadership that is more diverse.

Panels V & VI

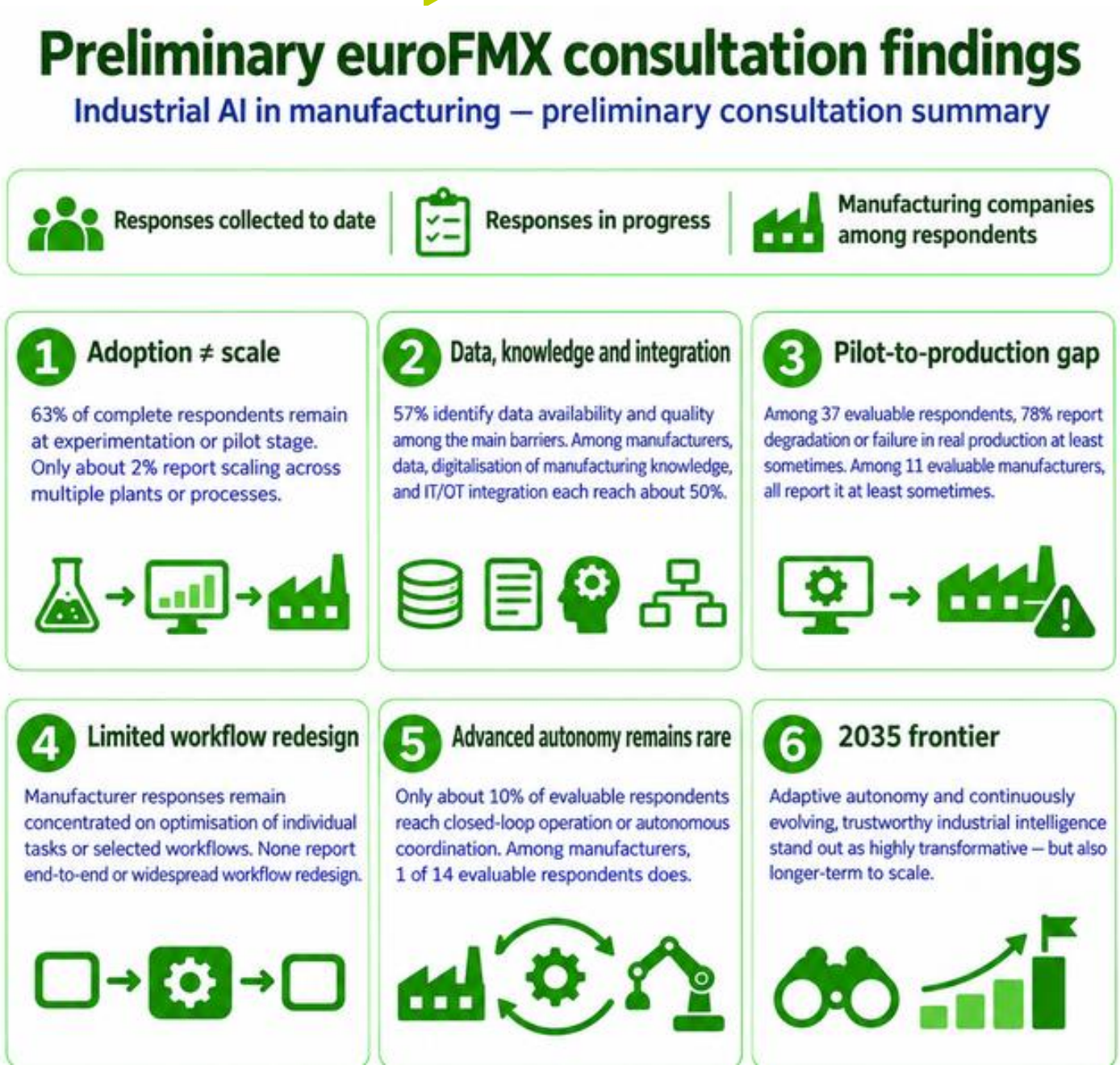
V · Workforce Anticipation of Rapid Technological Shifts

VI · Enterprise Wearable Devices & Human-Centred Technologies

WORLD MANUFACTURING FOUNDATION

EUFMX

EuroFMX Questionnaire: Industrial AI



Making Industrial AI Work

- **to assess AI adoption in European manufacturing** and identifies barriers and opportunities for accelerating industria deployment
- **to translate evidence into actionable policy recommendations** for the EC, supporting the transition from AI experimentation to trusted, scalable and value-generating industrial applications

The survey is organised around five thematic areas:

1. Adoption levels & maturity (2 questions)
2. Economic & workforce impact (4 questions)
3. Drivers & support (2 questions)
4. Barriers & scaling (6 questions)
5. Use cases & technologies (6 questions)

A separate 5-question foresight module evaluates six transformative capabilities for the next 5-10 years. - 5 questions

GenAI in Manufacturing



Moderator

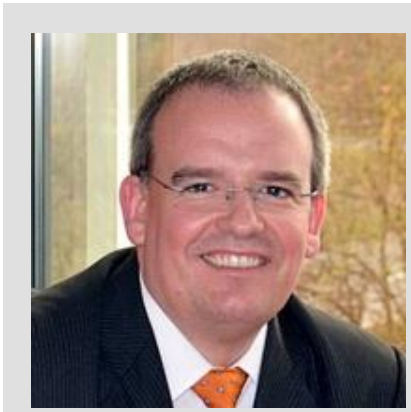
Sergio GUSMEROLI
POLITECNICO DI MILANO



Marco TAISCH
Vice-Chairman of EFFRA



Emanuela GIRARDI
President of ADRA



Óscar LÁZARO
euroFMX Project



Magí DALMAU
GRAIL Project



Cécile HUET
DG CONNECT
European Commission

WHY

Better Answers

Robust Reasoning

Richer Context

Longer Memory



A FACTORY THAT THINKS

EUFMX

Open Models & Open Sourced

Engineering & Factory Operations

Machine | Process | Supply Chain

10 Pilots

HOW

BRING AUTONOMY AT THE CORE

WHO

Coordination

POLITECNICO MILANO 1863 · ovalia ASSOCIATION

Scientific progress on GenAI foundational technologies

Fraunhofer ISST · Fraunhofer IAIS · Fraunhofer IWU · TU/e · universität koblenz · CERTH · UNIVERSITY OF OXFORD · IMPERIAL · SAPIENZA UNIVERSITÀ DI ROMA · idsia · UNIVERSITY OF OSLO · CHALMERS · c22 · KU LEUVEN

GenAI digital production tools & solutions

SIEMENS · Schneider Electric · celonis · BOSCH · netcompany · TXT · DGS · DAWEX · Suite5 · ATLANTIS · COMMON SENSE ROBOTICS · Technology Transfer System · CORE INNOVATION · UNPARALLEL · SYKE

AI Factories & sovereign GenAI computing continuum

KIT · CINECA · eng · Open Nebula

Asset, process & collaborative engineering /commissioning pilots

COMAU · TRIMEK · UNIMETRIK · DATAPIXEL · SITAV · AUMOVIO · BEFESA · ghi · PHILIPS · LEONARDO · AVL · PRIMA INDUSTRIE

Data foundries

Mondragon Unibertsitatea · IRP · aimen · Cefriel · Switzerland Innovation · ARENA2036

Industrial associations

VDMA · IDTA · prostep ivip

Generative economy & standardization

DGTL · CARSA · ivsz · DIGITALEUROPE · IDC · VDE · Manufacturing

Data communities & AI ecosystem building

BDV · INTERNATIONAL DATA SPACES ASSOCIATION · CVUT · ellis · BAIDATA

72 Partners | 48 Months | 20 Countries | 10 M€ Op. Call

A UNIQUE INITIATIVE



SOVEREIGN NGIOS*

*NGIOS – Next Generation Industrial Operating System

WHAT

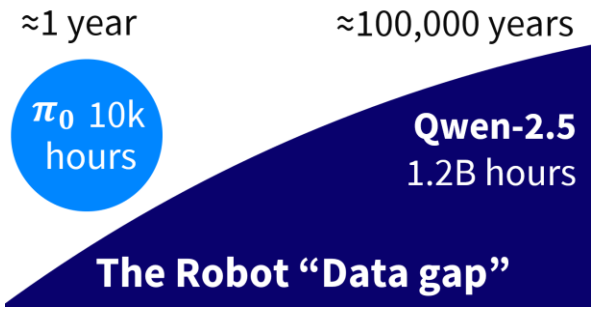
Funded by the European Union

HORIZON EUROPE · 2026–2031 · COORDINATED BY EURECAT

GRAIL: Europe's Foundation Model for Robotics

01 · THE GAP

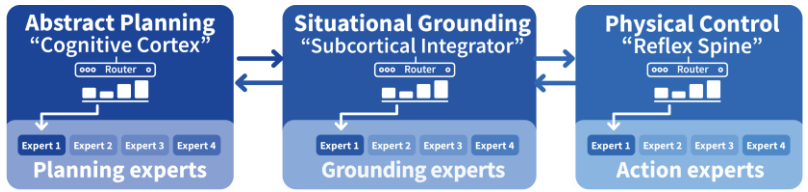
Robots lack the data that made LLMs work



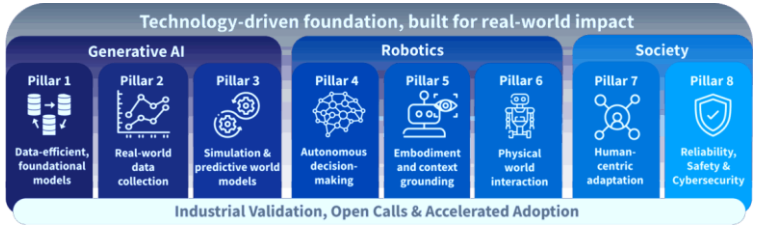
Robot datasets are ~5 orders of magnitude smaller than LLM corpora: brute-force scaling is too slow, costly and fragile.

02 · THE ANSWER

Modular, agentic, accountable — not a black box

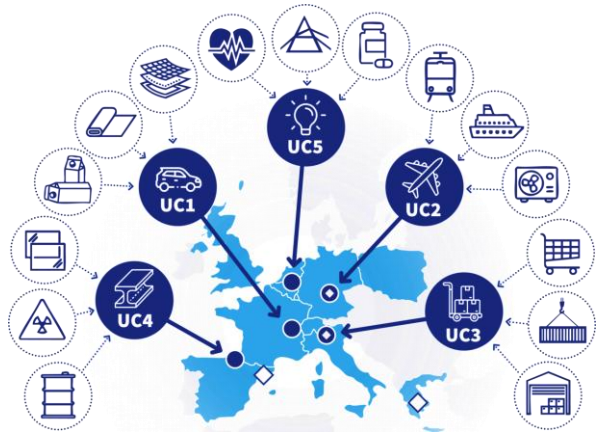


Plan · cloud → Ground · edge → Control · robot



03 · THE PROOF

Built with and validated in real European industry



23 partners, 10 countries

5 industry-led Use Cases

>10 robot embodiments

4 Testing Hubs

>€10M in 3 Open Calls

TRL6 from TRL2 in 60 months

GRAIL

Funded by the European Union

GRAIL OPEN CALL #1 · GENESIS · OPEN NOW

Help close the robot data gap

€1M for the data, capture tools and benchmarks that will train Europe's robot foundation model

€100K	100%	≥10	8
per project	funding rate	projects funded	months max.

DEADLINE

10 Feb 2027

17:00 CET · opened 9 Nov 2026

Projects start May 2027

Apply now

grail-robotics.ai/open-call/genesis

Single entities: SMEs, startups, industry, universities, RTOs

8 TOPICS · UP TO 3 APPLICATIONS PER ENTITY

01 Dexterous robot-hand tasks	02 Long-horizon stationary tasks	03 Long-horizon mobile tasks	04 Industrial tool-use tasks
05 Egocentric video for dexterity	06 Low-cost contact-rich capture	07 Gamified "Plan–Fail–Repair" data	08 Generalisation stress-test kit

Genesis	data & democratisation	**€1M · now**
Ascent	industrial validation	**€4M · 2028**
Summit	real-world adoption	**€5M · 2030**

>€10M for 40+ third-party projects

EFFRA Strategic Objectives

1	Securing European Leadership in Innovation, Industrial Scaling and Productivity Growth	Make Europe the most productive and technologically advanced manufacturing base
2	Advancing European Strategic Autonomy and Resilience	Ensure Europe can produce, adapt and respond when supply chains or geopolitical conditions change
3	Driving Competitive Value Retention and Climate Neutral Industrial Production	Make resource-efficient, circular and climate-neutral manufacturing a source of competitive advantage
4	Embedding Digital Technologies, Automation and Artificial Intelligence Across Industrial Value Chains	Make AI, digital twins, robotics and systems engineering transformational capabilities for European manufacturing
5	Human capital & human-centric manufacturing	Equip people and organisations to exploit advanced manufacturing technologies and make human-centric manufacturing a European strength

EFFRA STRATEGIC OBJECTIVES

EFFRA R&I Briefs













Adra SRIDA 2026–2027: what Europe should build next

Mission: *enhance European scientific excellence and dismantle the barriers to the industrial deployment of AI, Data and Robotics.*

6 Big Tickets

1. **Ground-breaking technological foundations in AI, Data and Robotics**
2. **Effective and trustworthy general-purpose AI, Data and Robotics**
3. **An interoperable, integrated framework for data and model ecosystems**
4. **Next-generation smart embodied robotic systems**
5. **AI, Data and Robotics technology for the sciences**
6. **Research, innovation and tools for compliance**

AI trends

- From next-token prediction to **reasoning**
- From uni-modal to **multi-modal models**
- From chat to **agents**
- From language models **to world models**
- From machine learning to **neurosymbolic AI**
- **From digital AI to physical AI**
- From automation to **human-AI teaming**
- Towards **cyber-resilient AI**

For manufacturing: agents, world models and physical AI working with people, turned into deployment through the end-user-driven **European AI-enabled Robotics Catalyst**.

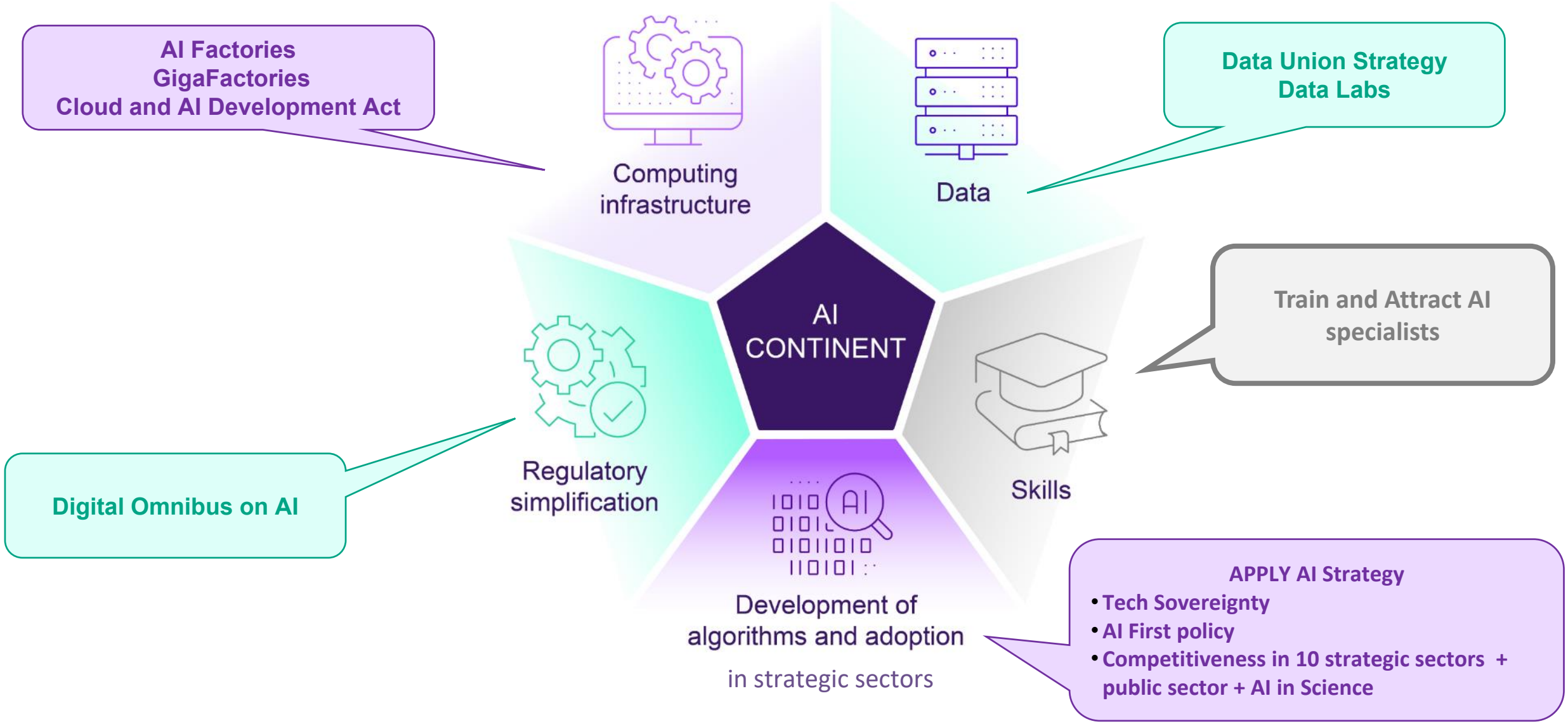


GenAI for Manufactruing and Robotics in the AI Continent Action Plan

Cécile Huet, PhD
Head of Unit
AI Office - DG CNECT –Unit A1,
Excellence in AI and Robotics
European Commission

EUROPEAN ARTIFICIAL INTELLIGENCE OFFICE

AI Continent Action Plan – 9 April 2025



Key actions for the strategic sectors

Healthcare and pharma

Deploy AI-powered screening centres to improve detection and diagnosis.

Agrifood

Create an Agri-food AI platform for specialised farming apps to reach the market.

Robotics

Establish a Catalyst for the Uptake of European Robotics to boost innovation.

Manufacturing, engineering and construction

Develop advanced AI models and agents for manufacturing.

Mobility, transport and automotive

Launch an Autonomous Drive Ambition Cities initiative to accelerate the use of self-driving vehicles.

Electronic communications

Create an AI platform for telecoms operators to build AI elements.

Cultural and creative sectors, and media

Foster EU micro-studios specialising in AI-enhanced virtual production.

Climate and environment

Deploy an AI-Earth model for better weather forecasts, Earth monitoring, and prediction.

Energy

Support a generative AI-enabled backbone to better balance energy generation and demand.

Public sector

Build an AI toolbox with open-source reusable tools and solutions.

Defence, security and space

Deploy secure infrastructure for the development and training of defence AI models.

EC Policy Evolution from GenAI4EU to Apply AI Strategy

GenAI4EU → 700M€



APPLY AI → Development and uptake in VERTICAL sectors

Healthcare and pharma
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Scaling AI-powered robotics from the lab to the factory floor

- All actions under way

European Robotics Catalyst – End-user-driven strategy

One ecosystem where robot makers, AI developers and manufacturers move AI-powered robots **from prototype to production**, through sector-specific Acceleration Pipelines, **driven by end-users needs**

Transferable robot skills

Skills that **work across many sectors**, validated in dedicated **skills qualification centres**.

Foundation models

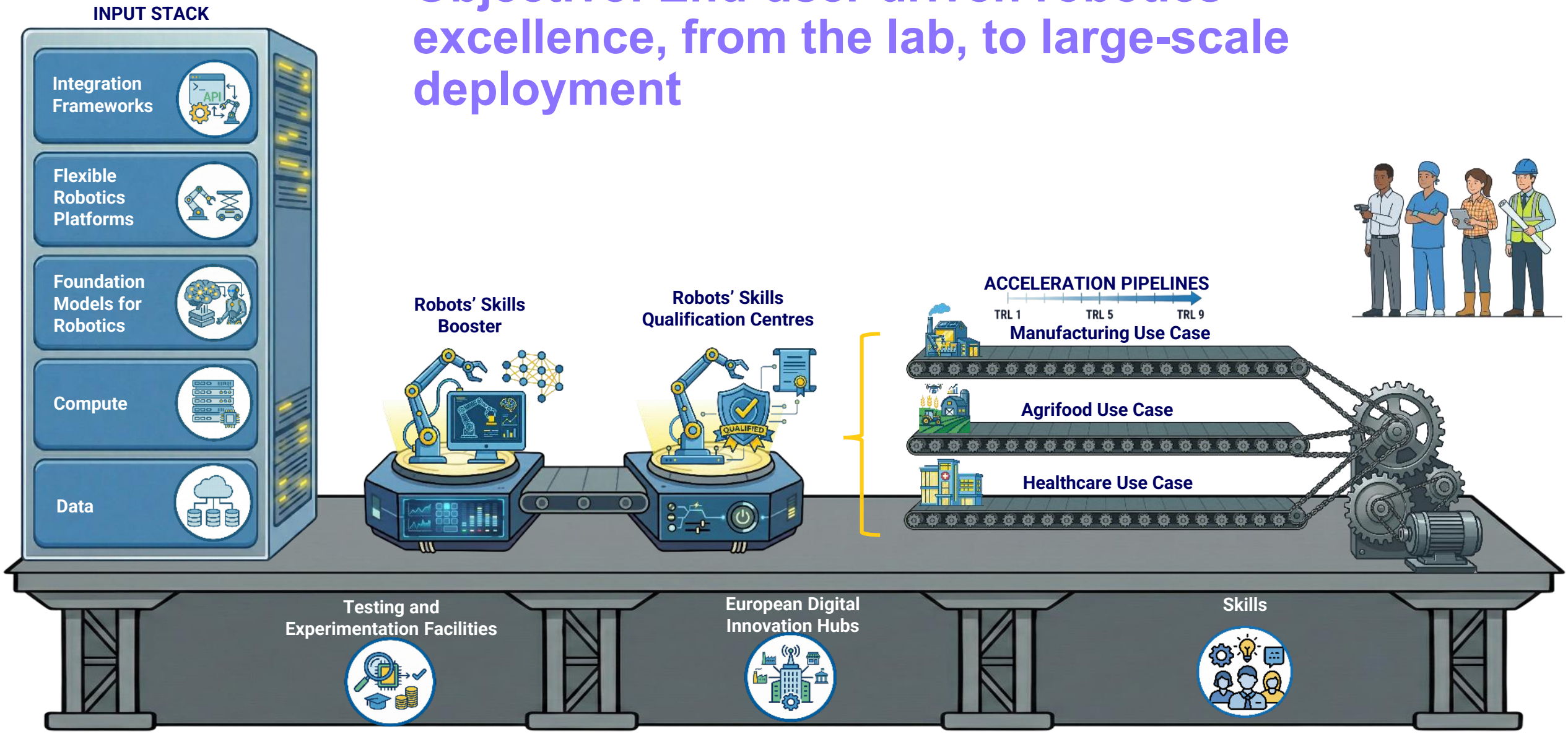
Robots that **learn from real-world experience**, simulate complex settings and act autonomously.

Operational data

Trusted infrastructure, clear rules and interoperable standards for **accessing** & **sharing industrial data**.

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Objective: End-user driven robotics excellence, from the lab, to large-scale deployment



AI Generated Pictures

Generative Robotics & AI for EU Industrial Leadership

GRAIL

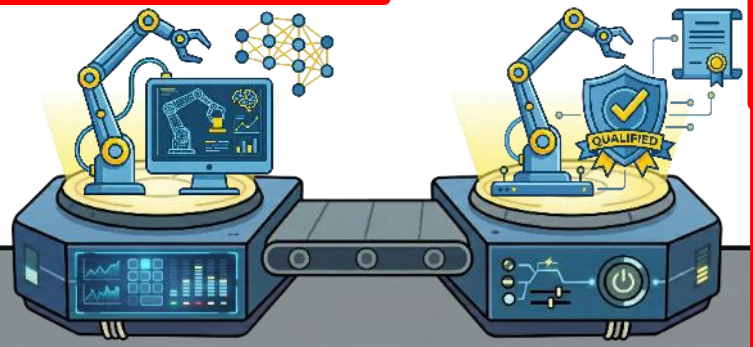
INPUT STACK

- Integration Frameworks
- Flexible Robotics Platforms
- *GRAIL Foundational Robotics Model*
- Compute
- Data

Modular Library of reusable robotics skills & low-level actions

GRAIL Testing HUBs (GTHs)

Robots' Skills Qualification Centres













d Use Case

care Use Case

Testing and Experimentation Facilities

European Digital Innovation Hubs

AI Generated Pictures

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European Robotics Catalyst: End-user driven robotics excellence, from the lab, to large-scale deployment

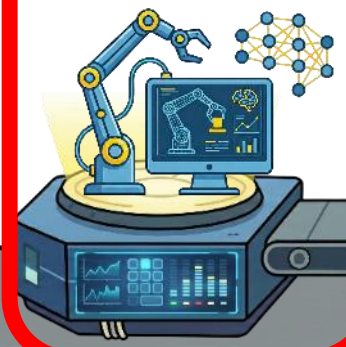
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- Compute
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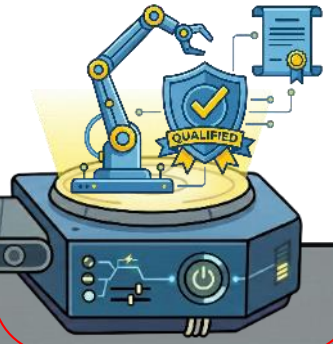
PRIME

Challenge on robots skills

Robots' Skills Booster



Robots' Skills Qualification Centres





ACCELERATION PIPELINES

TRL 1 — TRL 5 — TRL 9

- Manufacturing Use Case
- Agrifood Use Case
- Healthcare Use Case

Testing and Experimentation Facilities

European Digital Innovation Hubs

Skills

AI Generated Pictures

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European Robotics Catalyst: End-user driven robotics excellence, from the lab, to large-scale deployment

INPUT STACK

- Integration Frameworks
- Flexible Robotics Platforms
- Foundation Models for Robotics
- Compute
- Data

AIMatters TEF
Piloting the concept

Robots' Skills Booster

Robots' Skills Qualification Centres

ACCELERATION PIPELINES
TRL 1 — TRL 5 — TRL 9

- Manufacturing Use Case
- Agrifood Use Case
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Testing and Experimentation Facilities

European Digital Innovation Hubs

Skills

AI Generated Pictures

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Manufacturing: better models, pooled data and a faster path from lab to factory

AI models and agents

- Develop **AI models and AI agents** built for manufacturing, at the frontier of the field

Data pooling

- Pool data **across industrial actors via trusted third parties**, so training data covers the **whole product value chain**
- Protect **IP and data security** via AI Factories' data labs

Acceleration Pipelines

- Bridge the gap **from research labs to deployment**
- Support solutions continuously until they reach **real-world maturity**
- **Scale up across plants**, from pilot site to full production

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End-user driven manufacturing excellence, from the lab, to large-scale deployment

AI CONTINENT INPUTS

- **Integration frameworks**
- **Industrial software / Digital twins**
- **Foundation models for manufacturing**
- **AI Factories Gigafactories**
- **Data spaces for manufacturing**

Business processes

AI-DRIVEN ENTERPRISE RESOURCE PLANNING (supply chain management)

- Demand forecasting
- Process planning
- Resource optimization
- E-commerce and finances

AI-DRIVEN CONCURRENT ENGINEERING (products and processes)

- Generative AI design
- Process optimization
- Digital twins
- Mass customization

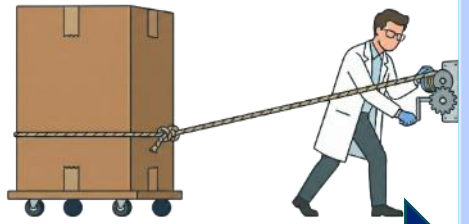


SHOP FLOOR

- Automation
- Maintenance
- Sensor

OPERATIONS

- Quality ass.
- Logistics networks



Technology push …

… end user pull

VALIDATION & CERTIFICATION

TEFs
Benchmarking, Safety & Performance Testing

SME ADOPTION & SKILLS

EDIHs
SME coaching, training, access to finance, ….

APPLICATION USE-CASES

- **Continuous process industries**
- **Mass production manufacturing**
- **Batch manufacturing**
- **Job-shop manufacturing**

AI Generated Pictures

End-user driven manufacturing excellence, from the lab, to large-scale deployment

AI CONTINENT INPUTS

- **Integration frameworks**
- **Industrial software / Digital twins**
- **Foundation models for manufacturing**
- **AI Factories Gigafactories**
- **Data spaces for manufacturing**

AI-DRIVEN ENTERPRISE RESOURCE PLANNING (supply chain management)

Business processes

AI-DRIVEN ENGINEERING (products and processes)

Supply chain autonomy

Resilient, sustainable and agile supply chain & production management

Manufacturing process autonomy

Reliable, adaptable and efficient production workflows

SHOP FLOOR **OPERATIONS**

Technology pus… …end user pull

Machinery autonomy

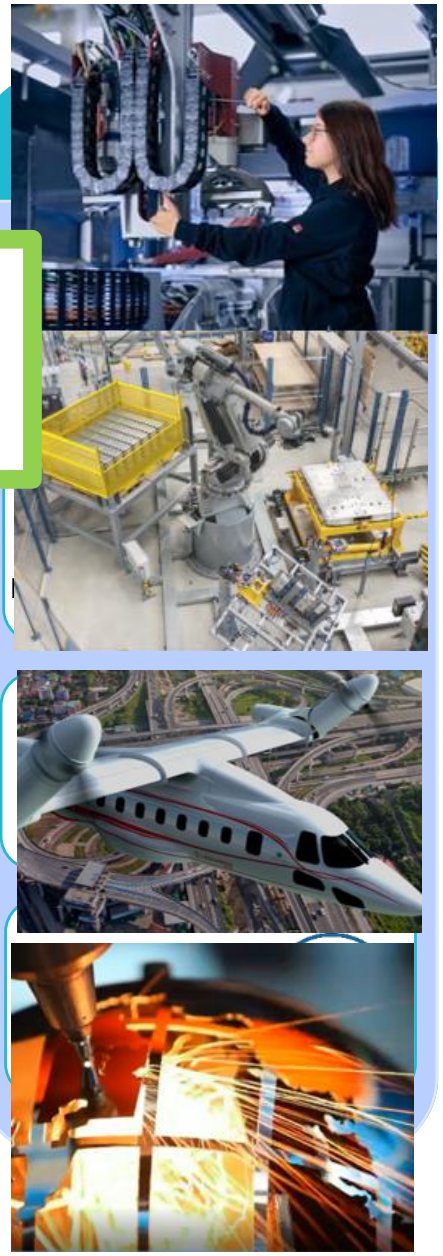
High performance production assets lifecycle management and circularity

VALIDATION & CER… **…TION & SKILLS**

Benchmarking, Safety & Performance Testing

EDIHs

SME coaching, training, access to finance, ….



AI Generated Pictures

Relevant existing iniatives

- **Grail & EuroFMX**
  - ➔ **GenAI/Robotics /Industrial Automation**
- **ADRA & SPRINT robotics – Catalyst**
- **TEFs - AIMatters**
- **PRIME**



- AI in manufacturing – "AI in Advanced Manufacturing – AI powered European engineering and production"

  Moderation: Andrea Matta, Professor, Politecnico di Milano (Polimi)

  - *John Blankendaal, Managing Director, Brainport Industries*
  - *Quentin Faucret, SVP Manufacturing Engineering and Innovation, Michelin*
  - *Gerhard Kreß, Senior Vice-President Portfolio and digital business, Siemens*
  - *Stefania Ferrero, Chief Marketing and Solutions Officer, Comau*
  - *Marco Taisch, Vice-Chairman, European Factories of the Future Research Association (EFFRA); Scientific Chairman, World Manufacturing Forum (WMF)*

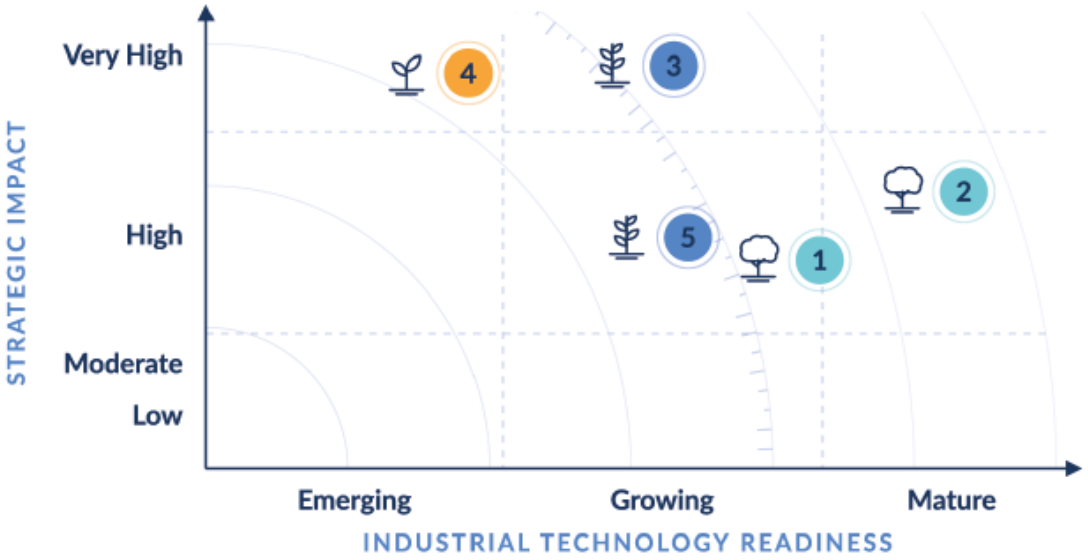


Thank you!

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Q1 WMF 2026 Technology Radars: Physical AI

WMF's Physical AI & Humanoid Robotics Technology Radar



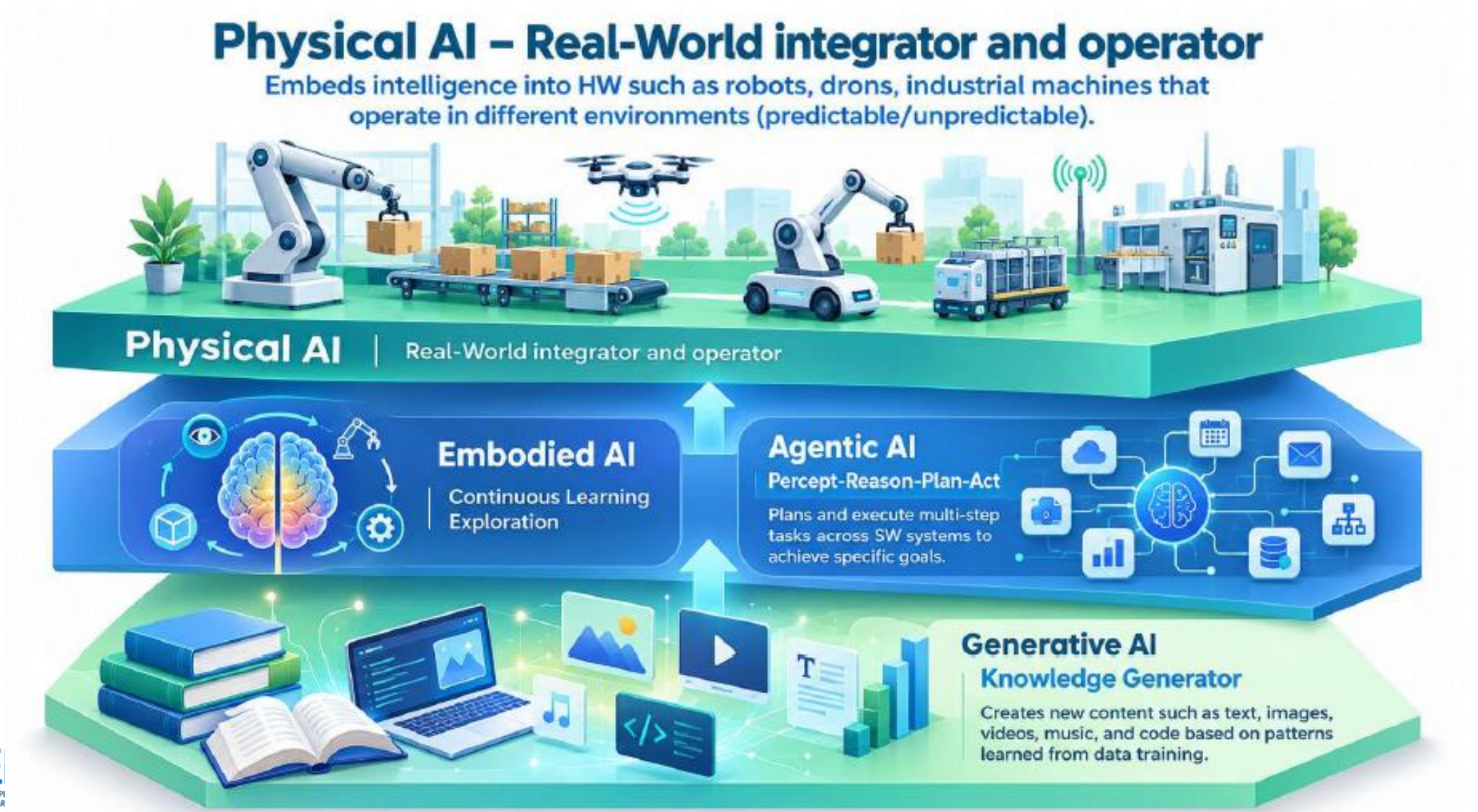
Top 5 Technology Categories

1. **Physical AI-powered Collaborative Robotics and Machine Tools**
   Use vision systems, edge AI and robotic manipulators for flexible and agile reconfiguration.
2. **Autonomous Mobile Robotics (AMR)**
   Based on mobile platforms and advanced sensing capabilities to navigate and re-route through various environments.
3. **Humanoid Robots for Logistics**
   Bipedal humanoids, which utilise world models and sensor fusion capability to manipulate and stack objects.
4. **Humanoid Robots for Manufacturing**
   Bipedal or wheeled humanoid robots which combined with Visual Language Models are used in brownfield manufacturing operations.
5. **Quadruped Robots**
   Quadruped robots with advanced sensing technologies used to monitor and detect various parameters in complex environments.

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MADE IN EUROPE

Q1 AIOTI from genAI to Physical AI

Alliance for AI, IoT and Edge Continuum Innovation



Q1 What do you think are the most relevant recommendations for Manufacturing Industries to fully adopt Physical AI?

Vote 2 out of the following recommendations

i. Expand Synthetic Data Pipelines (TECHNICAL)
ii. Upskill Workforce for Physical AI (HUMAN)
iii. Validate feasibility and Economic Potential (BUSINESS)
iv. Strengthen AI/Data Infrastructure (TECHNICAL)
v. Launch targeted Humanoid Robotics Pilots (PILOTS)
vi. Developing a Human-Robot Workforce Strategy (HUMAN)
vii. Suitable case studies and implementation guidelines (PILOTS)
viii. Assess new Business Models and KPI system (BUSINESS)

#2731837

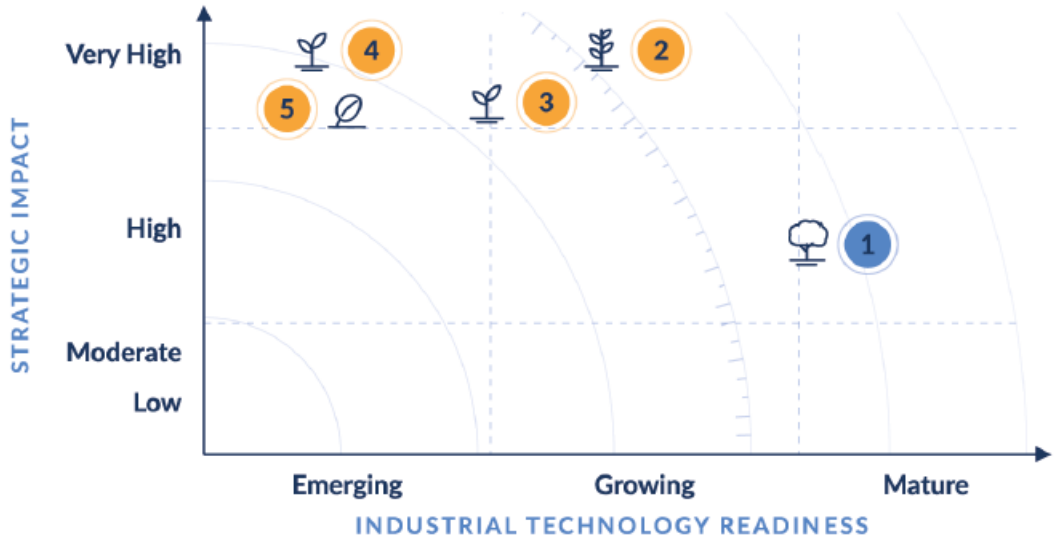


SLIDO

SCAN ME

Q2: WMF26 Agentic AI & Human-AI Autonomy

WMF's Agentic & Cognitive Artificial Intelligence Technology Radar



Top 5 Technology Categories

1. **Industrial AI assistants & knowledge agents**
   Knowledge access and guidance for engineers and operators across manuals, MES, ERP and quality records.
2. **Agentic engineering & autonomous discovery**
   Agents that plan, write and validate engineering artefacts inside real tools.
3. **Autonomous operations agents**
   Scheduling, quality, maintenance and energy decisions within engineered guardrails.
4. **Agent trust, governance & assurance**
   Identity, liability, cost governance and assurance of deployed agents.
5. **Cognitive & self-improving agents**
   Persistent memory and world models, adopted under engineering change control.

Technology Category	Call for Action
1. **Industrial AI assistants & knowledge agents**	• Connect only to approved company sources • Measure the work saved, not how often the tool is used • Redesign the jobs around it
2. **Agentic engineering & autonomous discovery**	• Code must compile, pass automated checks and survive simulation before use • Designs and requirement outputs need the equivalent validation in their own tools • A named engineer signs off • Start where engineering capacity is the bottleneck
3. **Autonomous operations agents**	• Start in advisory mode and allow limited direct action only once trusted • Measure schedule stability as well as optimisation gains • Keep the existing safety systems in charge

Technology Category	Call for Action
4. **Agent trust, governance & assurance**	• Treat agents as workforce: identity, permissions, training, review and retirement. • Independent checks at more than one level • Automatic spending cut-offs
5. **Cognitive & self-improving agents**	• Run pilot projects with versioned, attributable and revisable memory • Keep learned behaviour under engineering change control

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The Agentic AI Decisional Metaphor in Sports

Assistant

Persona

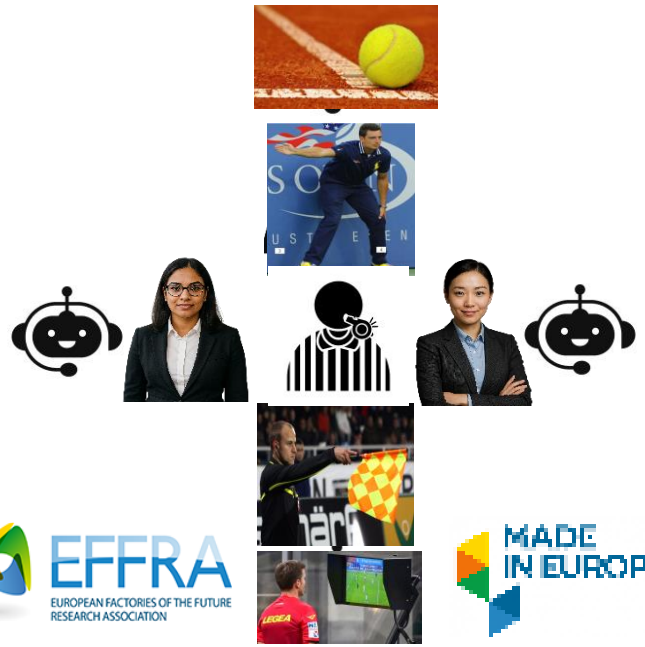
Agent

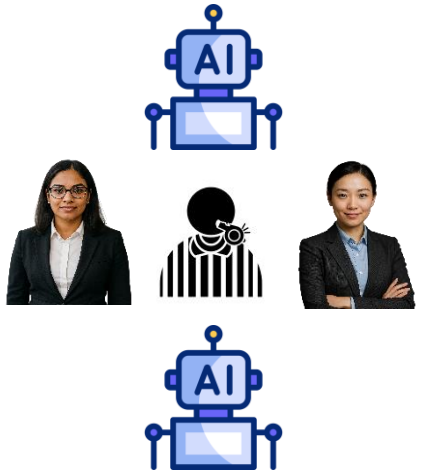
Perception
(Augmentation Modelling)

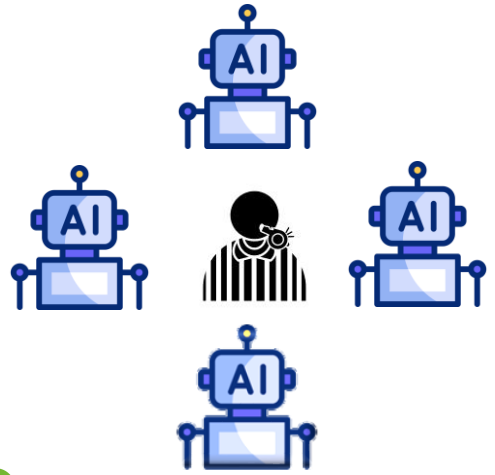
Cognition
(Reasoning Simulation)

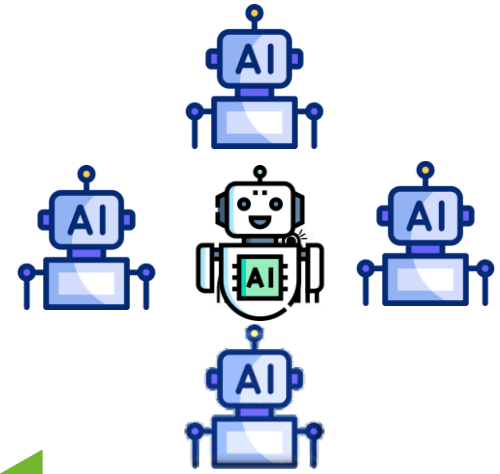
Action
(Decision Impact)

HUMAN in the LOOP	HUMAN on the LOOP	HUMAN in COMMAND	FULL AUTONOMY









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Q2 Which of the following business processes are most promising for Agentic AI autonomous decision making?

Vote 2 out of the following processes

i. Design and Engineering of new Production Lines and Robots
ii. Supply Chain Management, Manufacturing as a Service and Resilience
iii. Engineering of new Consumer Products and Safe & Sustainable by Design
iv. Monitoring, Diagnosis, Zero Defect Manufacturing and Quality Control
v. Waste Reduction and Energy Management in Production
vi. WISE (Wellbeing Inclusion Safety Ergonomics) of Workers
vii. Predictive Maintenance and 9R Circularity Strategies
viii. Regulatory and Ethical Compliance

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Q3 The future of EU Manufacturing: Human Centricity

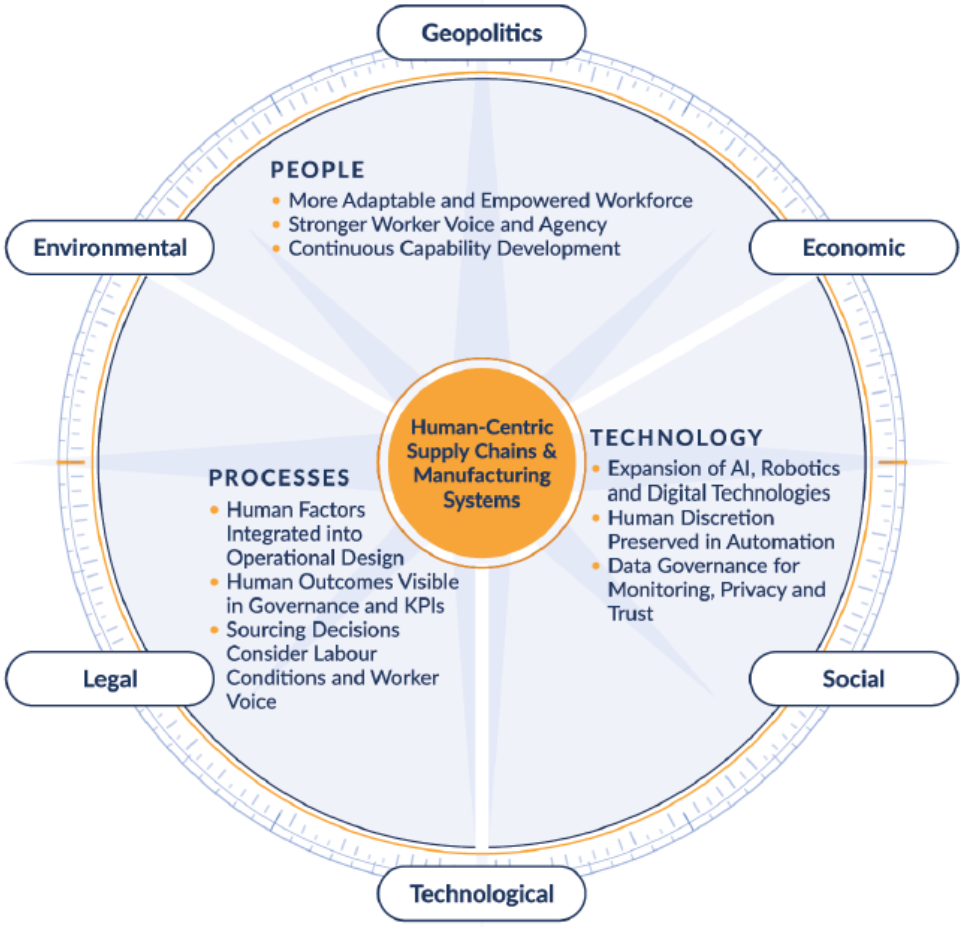
THE 2026 WORLD MANUFACTURING REPORT

Designing for Human-Centricity

Geopolitics
- Production geography reconfigured under geopolitical pressure
- Localisation, migration and visa rules shape staffing
- Reshoring often paired with automation, changing job profiles

Environmental
- Heat exposure affects safety, work patterns and performance
- Climate adaptation changes facility and work-system design
- Circularity needs skilled inspection, repair, testing and disassembly

Legal
- Workplace AI rules require informed workers and competent oversight
- Forced-labour rules extend exposure across the network
- Accessibility requirements affect product design and documentation
- Psychosocial health standards broaden safety responsibilities



Economic
- Labour scarcity collides with efficiency-led transformation
- Digitalisation shifts demand towards scarce higher-skilled roles
- Poor work quality can constrain capacity and repatriation
- Human-capability investment supports productivity and adoption

Social
- Ageing and more varied workforce capability
- Rising expectations for voice, autonomy and inclusion
- Skills gaps create adoption and retention risks
- Worker wellbeing becomes part of system performance

Technological
- Expansion of AI, Collaborative Robotics and Digital Twins
- Automation moves work towards judgement, exceptions and oversight
- Workplace data raises privacy and trust concerns
- SMEs face capacity gaps in human-centred adoption

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Q3 The future of EU Manufacturing: Resiliency

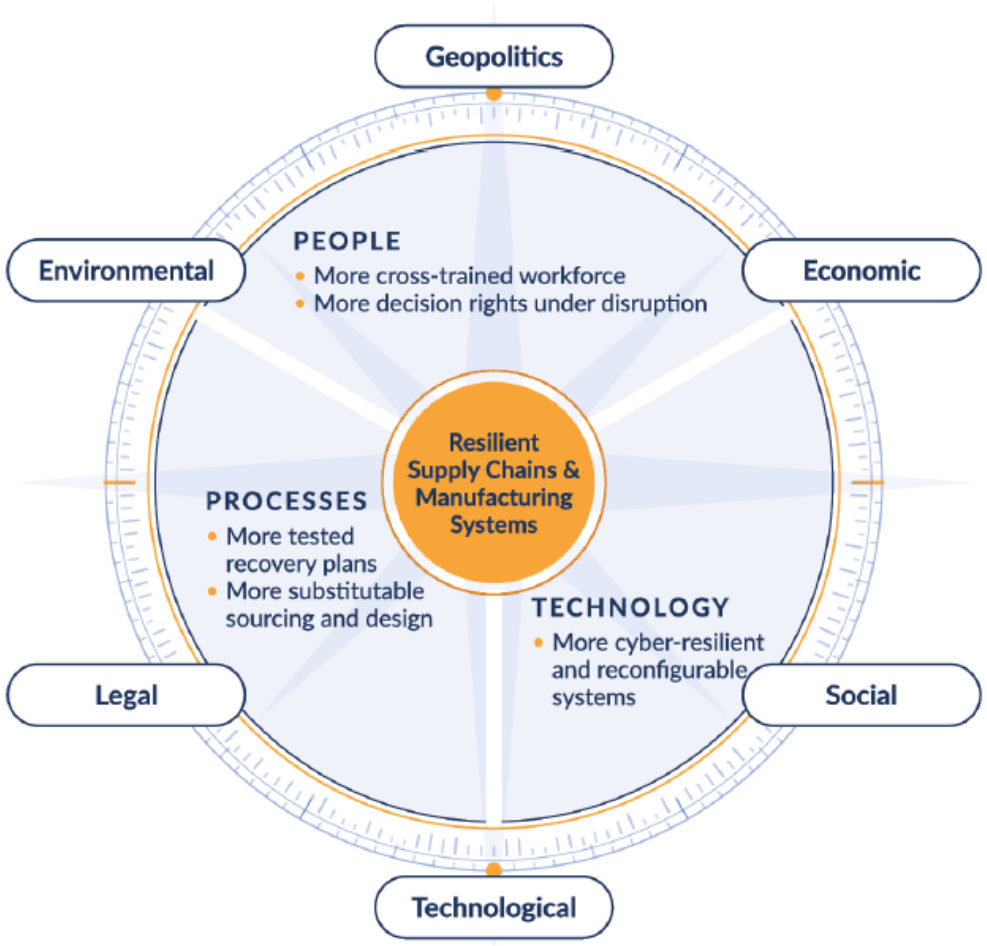
THE 2026 WORLD MANUFACTURING REPORT

Designing for Resiliency

Geopolitics
- Tariffs and Trade Restrictions
- Export Controls and Sanctions
- Geoeconomic Fragmentation
- Resource Nationalism
- Concentrated Critical Minerals
- Maritime Chokepoint Exposure

Environmental
- More Frequent and Intense Climate Extremes
- Heat and Flood Constraints on Sites
- Water Stress on Water-Intensive Processes
- Variable Inputs from Circular Material Flows

Legal
- Critical Raw Materials Act Risk Assessments
- Corporate Sustainability Due Diligence Obligations
- NIS2 and Cyber Resilience Act Requirements



Economic
- Rising Cost of Prolonged Disruption
- Hidden Exposure in Low-Spend Suppliers
- Long Supplier Recovery Times
- Higher Cost of Inventory and Capacity Buffers
- Freight and Energy Price Volatility
- Ripple Effects Across Supply Tiers
- Disruptions Originating Below Tier One

Social
- Skill Gaps in Engineering and Operations
- Loss of Tacit Recovery Knowledge
- Workforce Ageing and Turnover
- Industrial Action at Logistics Nodes
- Demands for Supply Chain Transparency

Technological
- Supply Chain Digital Twins and Simulation
- Multi-Tier Mapping and Risk Monitoring
- Cyberattacks Halting IT and OT Operations
- Dependence on Networks, Software, and Cloud
- Emergence of Cyber-Physical Systems

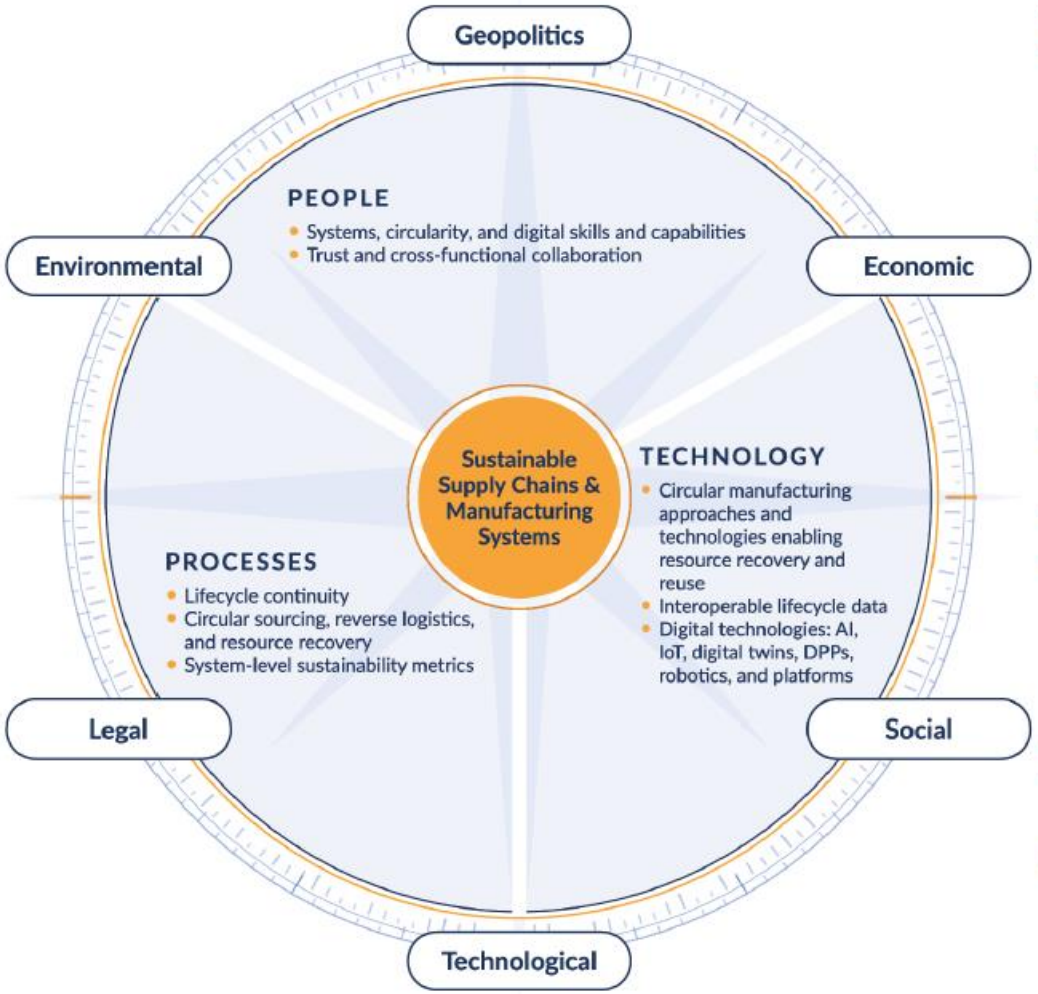
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Q3 The future of EU Manufacturing: Sustainability

THE 2026 WORLD MANUFACTURING REPORT

Designing for Sustainability



Geopolitics
- Resource security, strategic autonomy and technological sovereignty
- Resilient material and data flows

Environmental
- Resource scarcity
- Climate change impacts and biodiversity loss
- Waste and emissions
- Assess total system effects and rebound risks

Legal
- Governmental and intergovernmental policies on sustainable industry transformation: green, circular, climate
- Innovation and industrial policy
- Policies and regulation on data: Data governance, standards, accountability and secure sharing

Economic
- Business viability, profitability, and measurable value across supply chain actors
- Business models (servitisation, PSS)
- Investments
- Redesign and coordination costs vs. Efficiency gains

Social
- Rising stakeholder expectations for responsible and transparent operations
- Increased customer awareness
- Evolving industrial norms seeking circularity and sustainability

Technological
- Twin transition of digitalisation and sustainability
- Integrated technologies linking data, decisions, and physical action in supply chains and manufacturing systems

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Q3 Which are the most relevant global trends which could mostly influence the full adoption of genAI in EU Industry 5.0?

Vote 1 out of the following challenges

i. Geopolitics Trends (wars, tariffs, [cyber]security)

ii. Environmental Trends (climate change, pollution, waste)

iii. Legal Trends (regulation, compliance, governance)

iv. Economic Trends (energy costs, globalisation, servitisation)

v. Social Trends (demographic, labour scarcity, cultural diversity)

vi. Technological Trends (digital/data sovereignty, confidentiality, knowledge models)

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Making Industrial AI Work

Thank you!

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