



# Dall'AI Act all'AI Factories : come accelerare la trasformazione digitale dell'industria europea

*Vittorio Calaprice*

*AI focal point*

*Rappresentanza in Italia della Commissione europea*

**Teresa Ribera Rodríguez**  
*Executive Vice-President*  
Clean, Just and  
Competitive  
Transition



**Maroš Šefčovič**  
*Commissioner*  
Trade and Economic Security  
Interinstitutional Relations  
and Transparency



**Ursula  
von der Leyen**  
President



**Valdis Dombrovskis**  
*Commissioner*  
Economy and  
Productivity  
Implementation  
and Simplification



**Dubravka Šuica**  
*Commissioner*  
Mediterranean



**Henna Virkkunen**  
*Executive Vice-President*  
Tech Sovereignty,  
Security and  
Democracy



**Olivér Várhelyi**  
*Commissioner*  
Health and  
Animal Welfare



**Wopke Hoekstra**  
*Commissioner*  
Climate,  
Net Zero and  
Clean Growth



**Andrius Kubilius**  
*Commissioner*  
Defence and  
Space



**Marta Kos**  
*Commissioner*  
Enlargement



**Stéphane Séjourné**  
*Executive Vice-President*  
Prosperity and  
Industrial Strategy



**Jozef Sikela**  
*Commissioner*  
International  
Partnerships



**Costas Kadis**  
*Commissioner*  
Fisheries and  
Oceans



**Maria Luís Albuquerque**  
*Commissioner*  
Financial Services  
and the Savings  
and Investments  
Union



**Hadja Lahbib**  
*Commissioner*  
Preparedness  
and Crisis  
Management  
Equality



**Kaja Kallas**  
*High Representative/  
Vice-President*  
Foreign Affairs  
and Security  
Policy



**Magnus Brunner**  
*Commissioner*  
Internal Affairs  
and Migration



**Jessika Roswall**  
*Commissioner*  
Environment,  
Water Resilience  
and a Competitive  
Circular Economy



**Piotr Serafin**  
*Commissioner*  
Budget, Anti-Fraud  
and Public  
Administration



**Dan Jørgensen**  
*Commissioner*  
Energy and  
Housing



**Roxana Minzatu**  
*Executive Vice-President*  
People, Skills and  
Preparedness



**Ekaterina Zaharieva**  
*Commissioner*  
Startups, Research  
and Innovation



**Michael McGrath**  
*Commissioner*  
Democracy, Justice  
and the Rule of Law



**Apostolos  
Tzitzikostas**  
*Commissioner*  
Sustainable  
Transport and  
Tourism



**Raffaele Fitto**  
*Executive Vice-President*  
Cohesion and  
Reforms



**Christophe  
Hansen**  
*Commissioner*  
Agriculture  
and Food



**Glenn Micallef**  
*Commissioner*  
Intergenerational  
Fairness, Youth,  
Culture and  
Sport





## Henna Virkkunen

**Portfolio:** Executive Vice-President for Tech Sovereignty, Security and Democracy

### More information

- [Biography](#)
- [Mission letter to Henna Virkkunen](#)



## Ekaterina Zaharieva

**Portfolio:** Commissioner for Startups, Research and Innovation

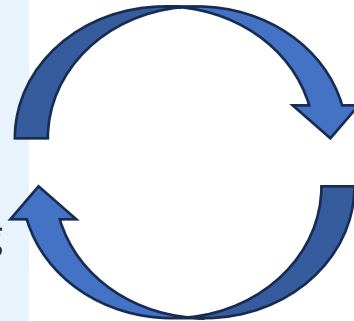
### More information

- [Biography](#)
- [Mission letter to Ekaterina Zaharieva](#)

# AI in the EU: AI Act and AI Innovation Package

## The AI Act

- **Product safety** and **risk-based** approach
- Protection of **health, safety** and **fundamental rights**
- A **horizontal** act
- **Coherence and complementarity** with existing legislation
- **Innovation friendly**
- Will apply to **public and private** actors, **inside and outside the EU** (as long as the AI system or general-purpose AI model is placed on the Union market), **providers and deployers**



## The AI Innovation Package

- **Boosting startups and innovation in trustworthy AI**
- **Two main objectives**
  - (1) AI Factories:** Making available HPC computing capacity to facilitate the development of GenAI models
  - (2) GenAI4EU:** Stimulating the development in strategic sectors of novel and innovative applications based on GenAI models and facilitating their uptake



**EuroHPC**  
Joint Undertaking

The European High Performance Computing Joint Undertaking (EuroHPC JU) pools together resources of the European Union (EU), European countries and private partners to develop a world class supercomputing ecosystem in Europe, boosting European competitiveness, innovation and improving European citizens' quality of life.



# GenAI4EU

The background is a complex digital composition. It features a dark blue field filled with a grid of small, glowing blue dots. Overlaid on this are several abstract elements: a large, glowing purple sphere on the left; a wireframe human head in profile on the right, rendered in a light blue/cyan color; and various translucent, wavy shapes in shades of purple and blue. Two translucent, multi-faceted geometric shapes, resembling cubes or prisms, are positioned in the upper left and upper right areas. The overall aesthetic is high-tech and futuristic.

# The EU's AI Innovation Package



AI FACTORIES  
EuroHPC Amendment

€2,1Bn

GenAI4EU

- Uptake in
- Strategic industries
  - Science
  - Public sector

€500M



€1Bn

AI Office

€100M

ALT-EDIC

€50M

Citiverse EDIC

€50M



€4Bn



# GenAI4EU initiative

€500M

## Boosting uptake in:

- strategic industries
- public sector
- science



**ROBOTICS / MANUFACTURING:** e.g. advanced robotics in aeronautics manufacturing



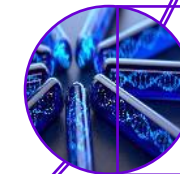
**AUTOMOTIVE:** e.g. plant-scheduling; infotainment, quality control, EV battery materials; driver-car interaction



**CYBERSECURITY:** e.g. threat intelligence, intrusion detection, incident response

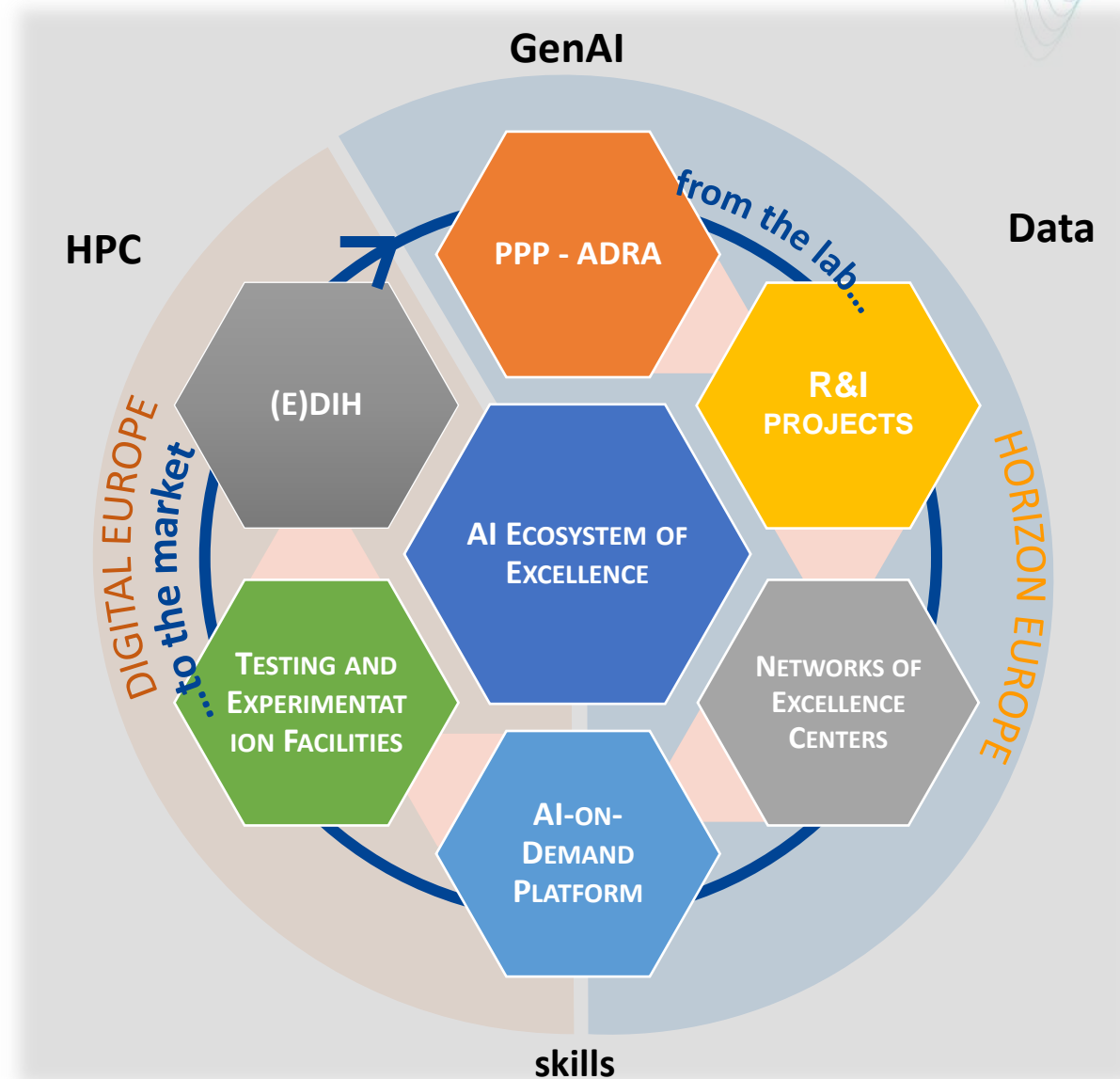


**ENERGY:** e.g. predictive maintenance, energy-management, smart-home solutions; for solar potential estimation



**PHARMA:** e.g. accelerated drug discovery and development

# AI innovation ecosystem : from the Lab to the Market

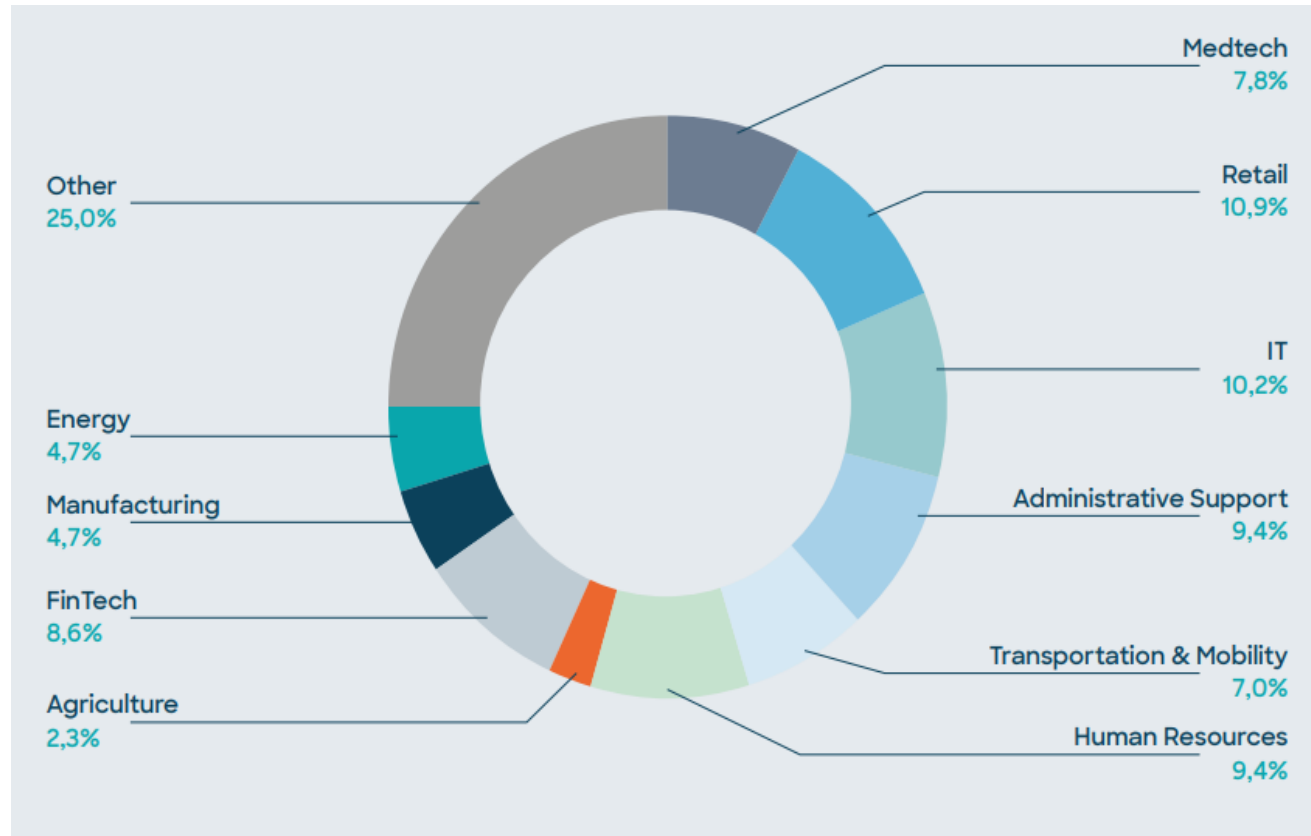


# AI Factories



# The GenAI Startup Landscape in the EU

Downstream applications – Industry distribution



- 6300+ AI startups in Europe → **669 (10%) in GenAI**
- 1/3rd of the GenAI startups are **developing GenAI models**
- Good coverage of **strategic EU industrial sectors**
- Main challenges reported by GenAI startups:
  - (1) **insufficient funding**
  - (2) fear of **regulatory burdens**
  - (3) limited access to **computing power, talent, data**

➤ **More than half of GenAI startups would benefit from accessing HPC**

Source: AppliedAI Institute for Europe



## AI Factories Components

AI Factories will provide the **computing power, data, support and talent**, to offer a wide and exhaustive **range of services to AI startups and researchers** needed for the development of **European generative AI models and applications**

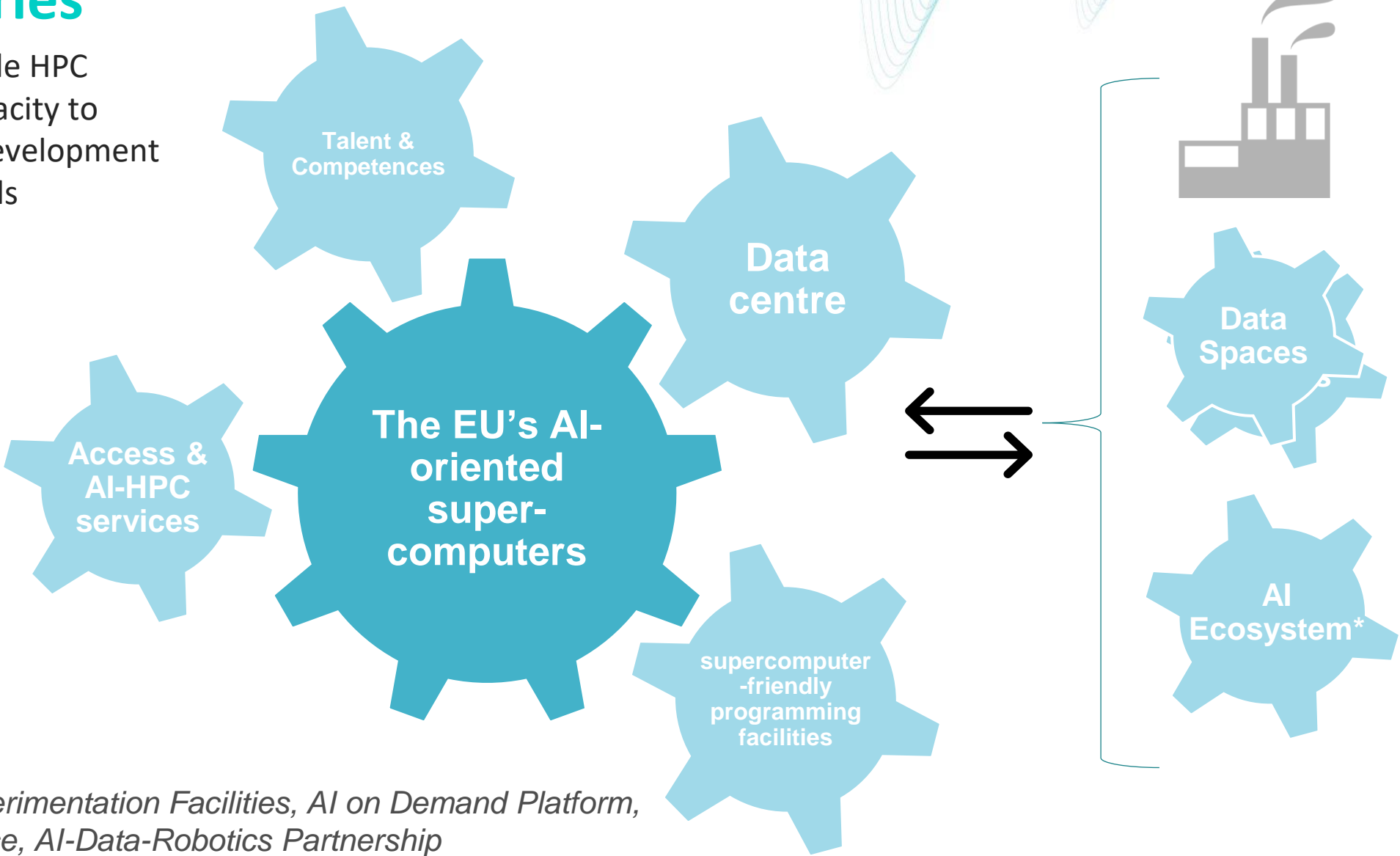
AI-optimised  
Supercomputer



Associated “AI Factories”  
activities and services

# AI Factories

Making available HPC computing capacity to facilitate the development of GenAI models

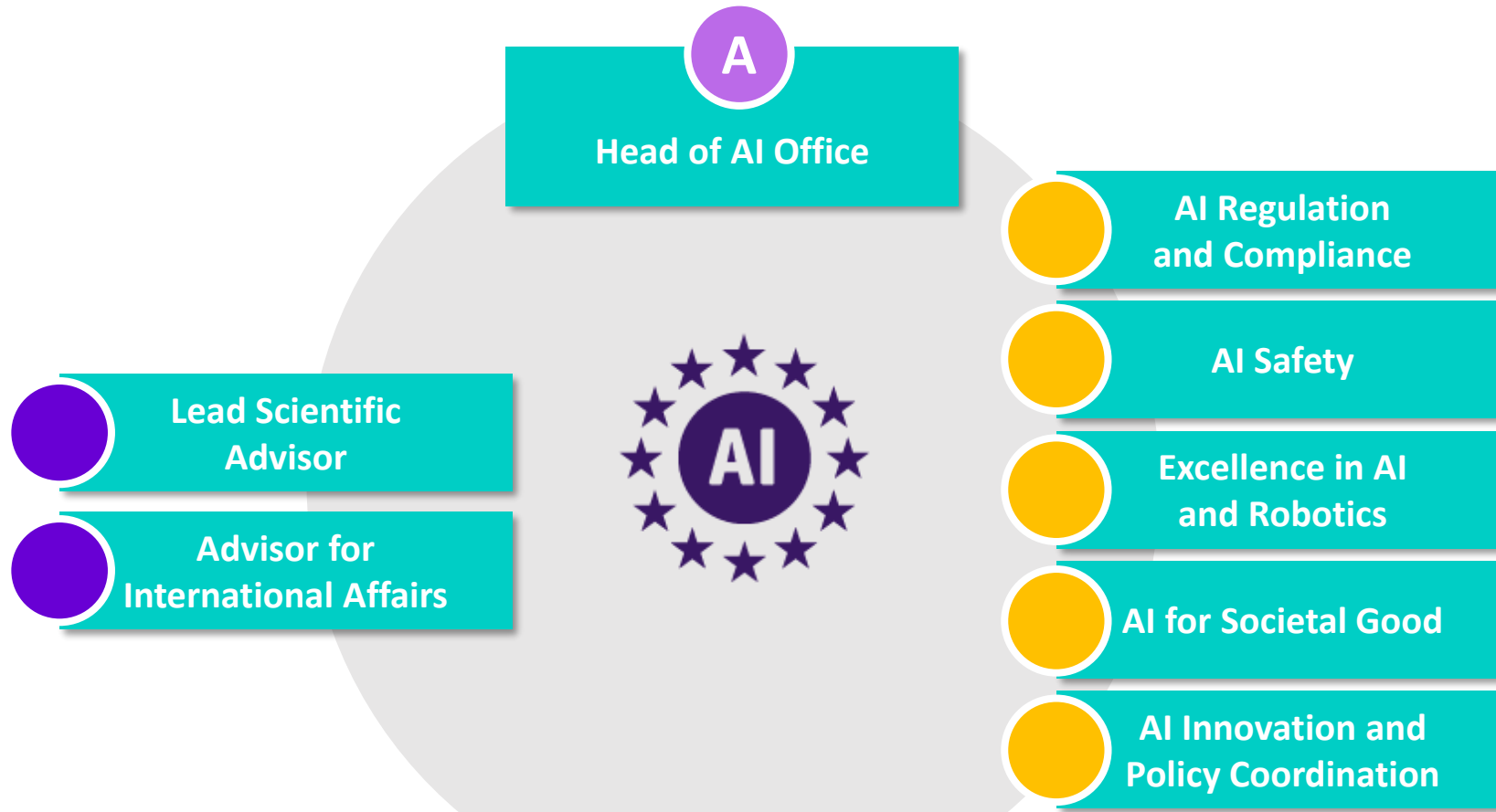


*\*AI Ecosystem:  
EDIHs, Testing and Experimentation Facilities, AI on Demand Platform,  
AI Networks of Excellence, AI-Data-Robotics Partnership*

The background of the slide is a dark blue field filled with a grid of small, glowing blue dots. Overlaid on this are several abstract, semi-transparent shapes in shades of purple and blue. On the left, there is a large, glowing sphere. On the right, there are two stylized human profiles facing each other, one rendered in a wireframe mesh and the other in a solid, textured form. Two translucent, multi-faceted geometric shapes, resembling crystals or data nodes, are positioned in the upper corners. The text 'AI Office' is centered in a clean, white, sans-serif font.

# AI Office

# Structure of the AI Office



## AI Board

with Member States to coordinate at EU level



## Scientific Panel

supports with technical advice



## Advisory Forum

supports with input from stakeholders





Thank you  
Vittorio Calaprice



© European Union 2024

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

