



Alliance for IoT  
and Edge Computing  
Innovation

24-25 Sep  
BRUSSELS

**AIOTI**  
DAYS 2024

Continuum, digital twins  
and virtual worlds

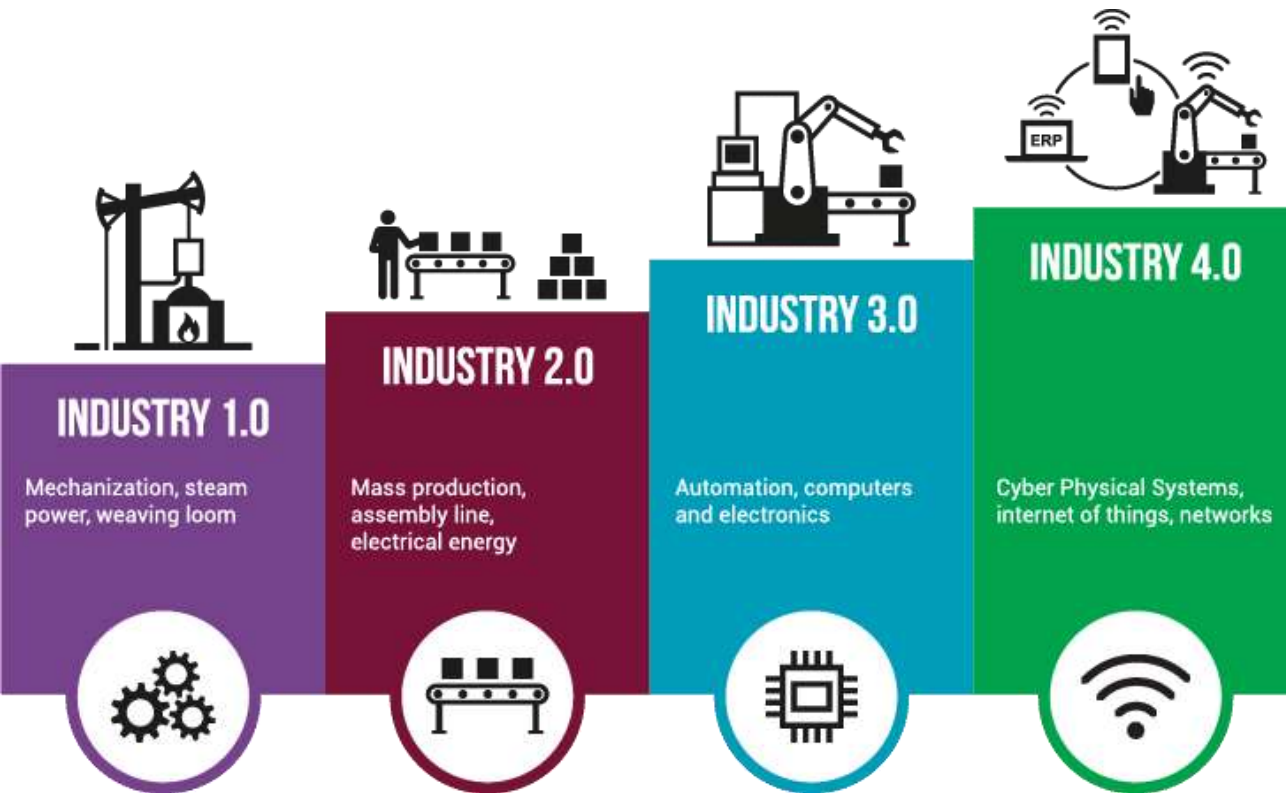
# Session: Cloud-Edge-IoT technologies at the service of European sustainable Manufacturing Industries

Panel Session Moderation (Sergio Gusmeroli – Politecnico di Milano)

Event Sponsors



# From Industry 4.0 to Industry 5.0



From shareholder to stakeholder value  
**INDUSTRY 5.0**  
human-centric, sustainable and resilient

@EUScienceInnov #Industry5.0 #ResearchImpactEU

European Commission

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# Industry 5.0: Human Centric



“**Technical and Regulatory Sandbox**” for AI, enabling a testing environment for innovative human-machine interaction products and services, where ethical challenges and shortcomings of the regulatory framework concerning such products and services can be addressed: Focus on the technical validation of solutions characterized by human-machine interaction and human-in-the-loop aspects for investigating the legal and ethical dimensions and human-centric approaches in this framework

**Experiments running on a limited scale and in a secure and controlled way**, according to the “test before invest” paradigm (**Technical Sandbox**), with the involvement of **volunteers** (representing the Civil Society dimension within the sandbox) to test such solutions in **real regulatory conditions** in a gradual and **controlled way** before going to the Industrial plants, pursuant to a specific testing plan agreed and monitored by the competent authority (**Regulatory Sandboxes**)

- Well-being, Comfort and Acceptance**
- Inclusion and special categories of workers**
- Safety of the worker**
- Ergonomics and improving working conditions**



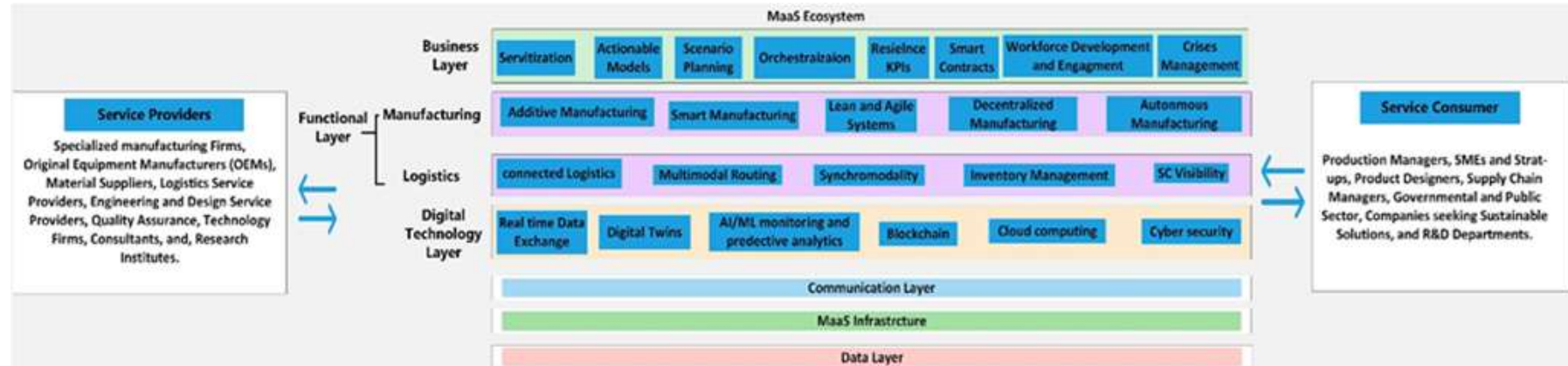
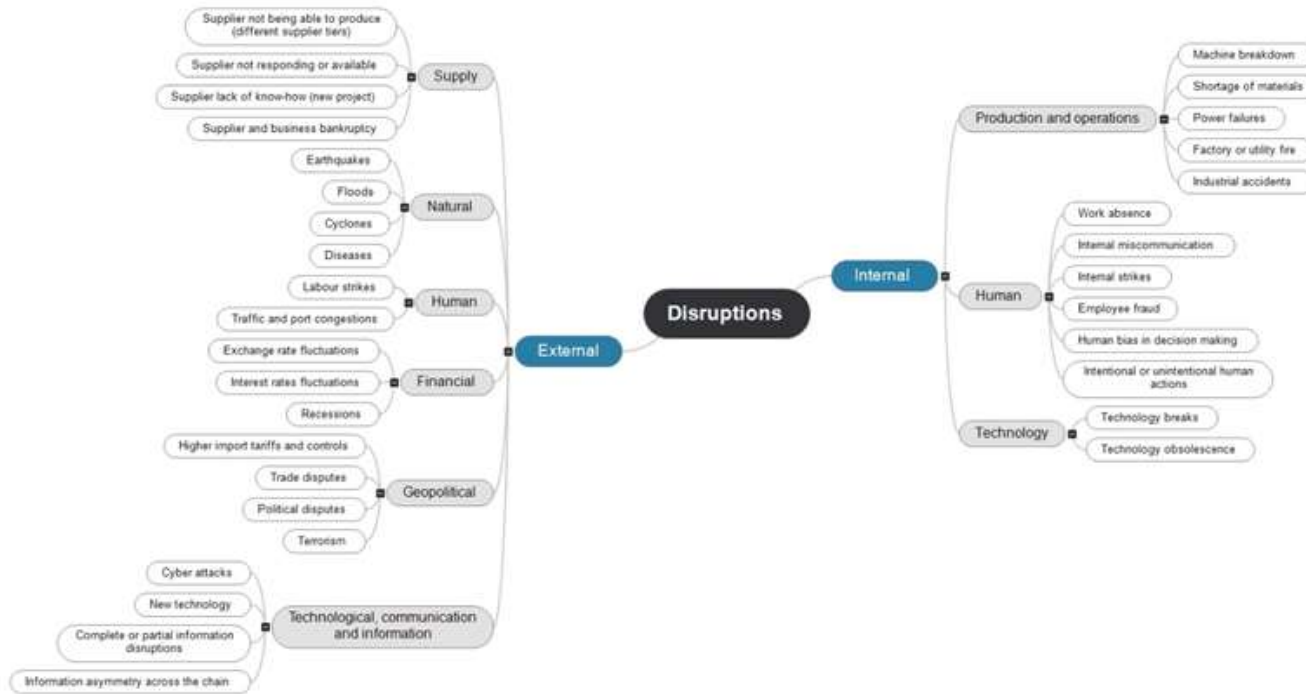
# Industry 5.0: Resilient Manufacturing



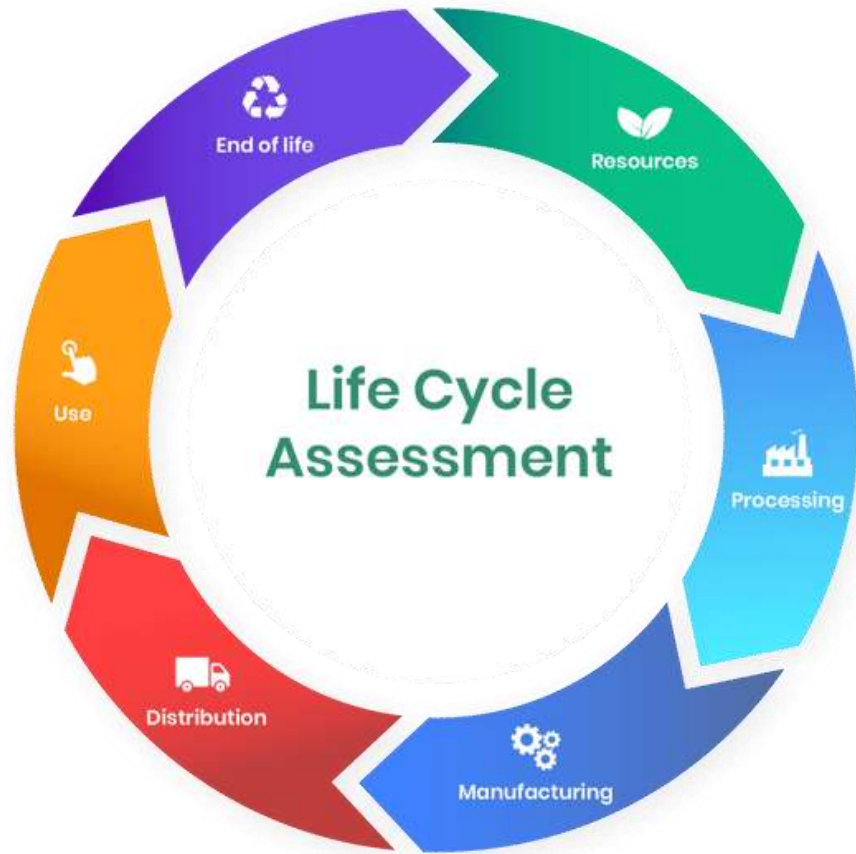
MAASive

## Resilience Capabilities and Enablers

Flexibility  
 Redundancy  
 Agility  
 Nearness  
 Cybersecurity  
 Awareness



# Industry 5.0: Sustainable Manufacturing





**Thank you for listening**

**Any questions?**

**You can email [sergio.gusmeroli@polimi.it](mailto:sergio.gusmeroli@polimi.it)**