

2-3.12.2025

Rome

EU FOOD SAFETY FORUM

**Supporting the Food Safety Systems
of the future**

2-3.12.2025

Rome





CERERE

CEREals RESiliency REVolution for agile
supply chain management in the
Mediterranean



This Project is part of the
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by the European Union

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About us (1/2)



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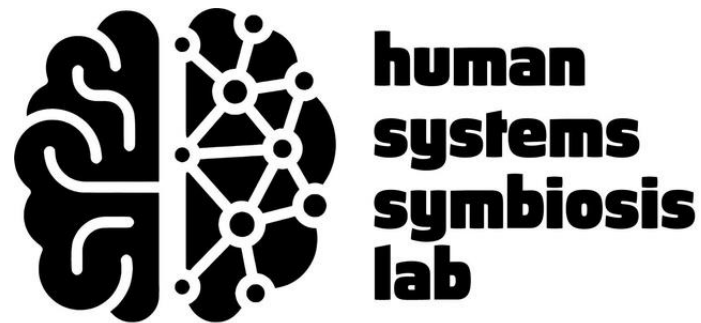


UNIVERSITÀ DELLA CALABRIA

**DIPARTIMENTO DI INGEGNERIA
MECCANICA, ENERGETICA
E GESTIONALE**

**Funded in 1972
23000+ enrolled students
2 km long bridge
14 departments
84 degrees
1 incubator for Startups**

About us (2/2)



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At the human-systems symbiosis (USS) lab, we conduct interdisciplinary research in the area of **industrial systems engineering and management** to support organizations throughout their **digital transition** to become human-centric, resilient, and sustainable.

Through scientific research and education, we shape the future of industry by building a **synergistic partnership between humans and intelligent systems**, and empowering individuals and organizations to thrive in a rapidly evolving landscape.

2023

Founding year

~1MLN€

Raised research funding



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Revolutionize IEM education by developing innovative teaching methods, materials, and tools with a human-centric focus.



Explores how to enhance VR- and simulation-based training for industrial operators using digital twins and BIM data.

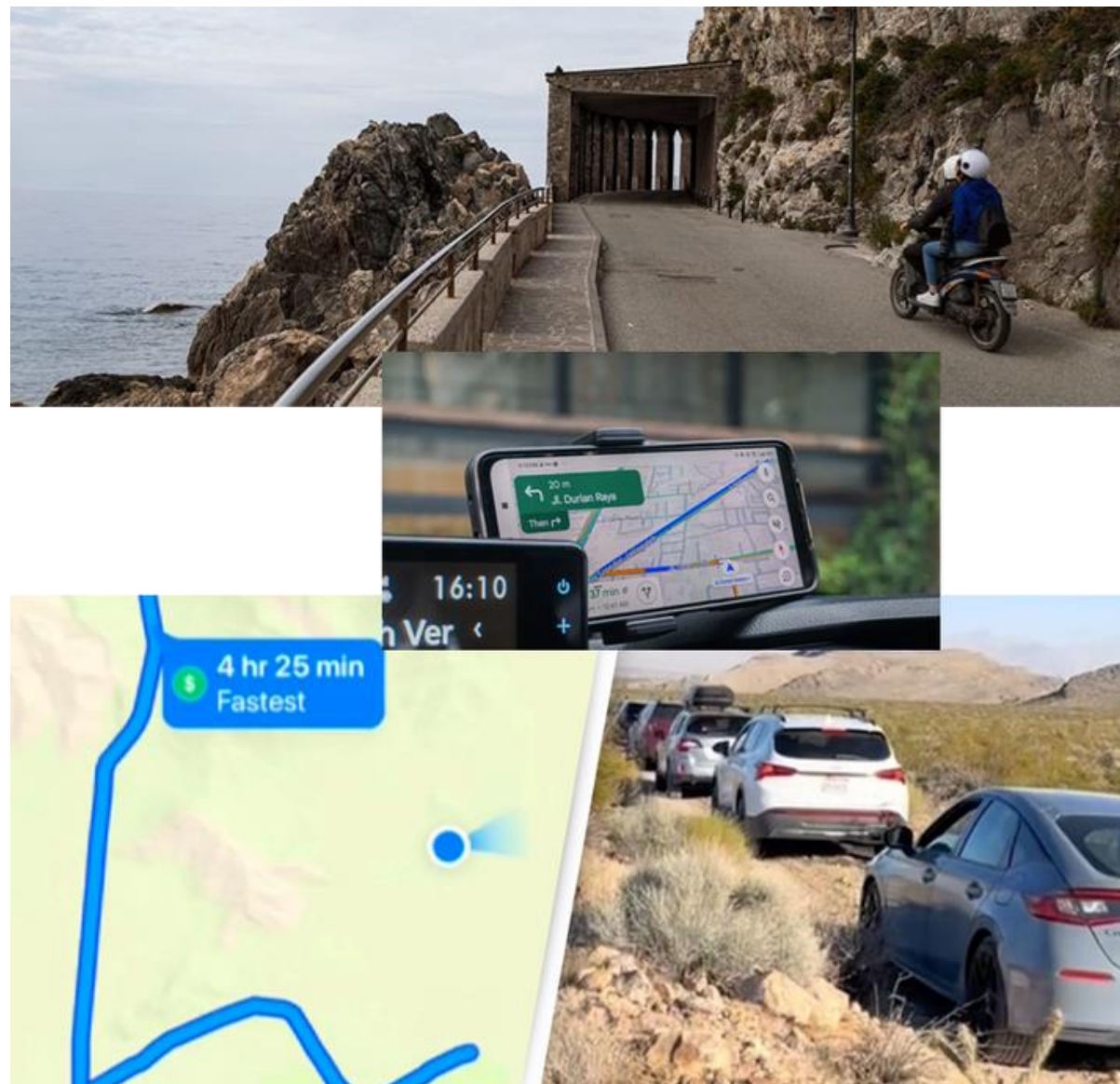


Investigates how maintenance activities and tasks should be shaped to move towards more human-centric factories.



Leverages digital twins, simulation, IoT, AI, and Smart Farming to support the decision-making process of the agri-food industry.

Contribution to FSS (1/2)



Picture this...

you're driving down a beautiful, winding road in Italy, enjoying the view...

...when suddenly your navigation app leads you onto a **road full of potholes, unexpected detours, and random obstacles.**

Frustrating, right?

Mediterranean cereal supply chains must navigate highly **vulnerable environments** shaped by **climate and geopolitical shocks**, while facing uneven **digital literacy** and **fragmented coordination** among actors



Contribution to FSS (2/2)



Empower supply chain actors to navigate the toughest roads with confidence, creating a trusted co-pilot for resilient cereal supply chain management.



Systemic food safety: Predictive tools, AI-based recommendation, simulation-based digital twins, and agile orchestration models, supporting a holistic, risk-based approach to food safety.



Digital and social innovation: Promote inclusive digital transformation by developing accessible and adaptable technological solutions and capacity-building programs for farmers, producers, and decision-makers.



Multi-actor engagement: Foster structured dialogue among researchers, industry, policymakers, and civil society, echoing the Forum's commitment to co-creation and transparency.

Cooperation

Shared tools and data

- Share unified data across diverse Mediterranean supply chain contexts
- Test technological solution and promote innovation
- Explore product-based innovation approaches for cereal species adaptation

Policy co-design

- Contribute evidence-based recommendations
- Support strategic planning with real-world insights
- Engage with policymakers to translate research into regulatory impact

Training and outreach

- Development of educational materials, webinars, and open resources for food systems operators
- Enhance digital literacy among food system actors
- Promote resilience awareness through tailored content

Pilot collaborations

- Test the adaptability of solutions in different regions or supply chains
- Evaluate scalability and impact through joint pilots
- Monitor long-term outcomes to inform future EU food safety strategies

Thank you!



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