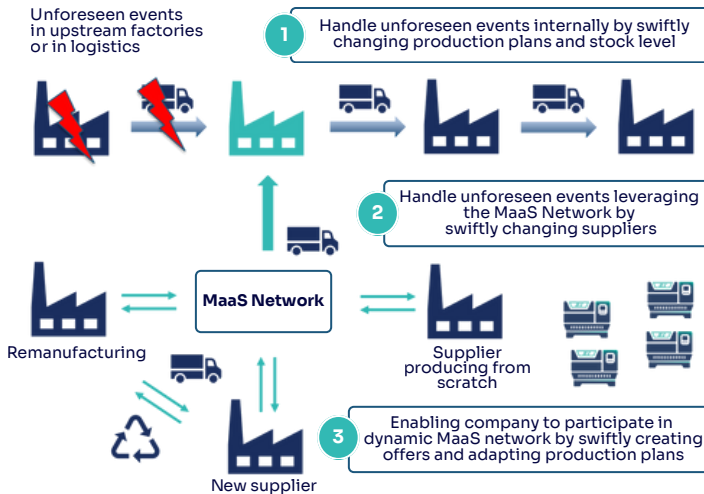


## Resilient and Adaptive Supply Chains for Capability-based Manufacturing as a Service Networks

The European industries struggle with supply chain disruptions due to supplier failures, material shortages, and unpredictable events.

**RAASCEMAN addresses these challenges.**

**"Manufacturing as a Service" (MaaS)** offers a solution. By leveraging digital platforms for distributed manufacturing, it enables quick, dynamic responses to supply chain disruptions, minimizing their impact.



Funded by  
the European Union



# 6

Research  
partners

# 3

Industrial  
partners

# 3

Use cases

# 5

Testbeds  
engaged

## RAASCEMAN for Manufacturing Resilience



RAASCEMAN is an EU-funded project that develops innovative AI-powered tools using real-time data from the supply chain to analyse potential disruptions and quantify their impact.

### RAASCEMAN Approach:

- **Real-time Risk Analysis**  
Detects disruptions early and assesses their impact.
- **Alternative Supplier Network**  
Connects manufacturers with MaaS (Manufacturing as a Service) providers.
- **Reliable Decision-Making**  
Evaluates supplier reliability and feasibility of alternatives.
- **AI-Driven Planning** – Supports production plan adjustments to ensure seamless operations.
- **Digital Twin Integration**  
Creates virtual models for better supply chain management.

### Real-World Applications

Three use cases for validation of the technical and economic viability of MaaS, assessing both supply-side and demand-side impacts of disruptions.

1. Automotive Industry
2. Bike Manufacturing
3. Interconnected Pilot Lines

This project received funding from the European Union's Horizon Europe Programme under grant agreement number 101138782.

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency (HADEA). Neither the European Union nor HADEA can be held responsible for them.