Horizon Europe COGNIMAN

COGNitive Industries for smart MANufacturing

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Co-funded by the European Union

 develops and pilots a concept of **"Digital Cognitive Industry for Smart Manufacturing"** to facilitate flexible, resilient, reconfigurable, safe, sustainable, and efficient manufacturing processes

Goal: flexible and efficient manufacturing towards zero waste and high-quality products

11
€ mill.

16
partners

7
EU countries

4
Pilots

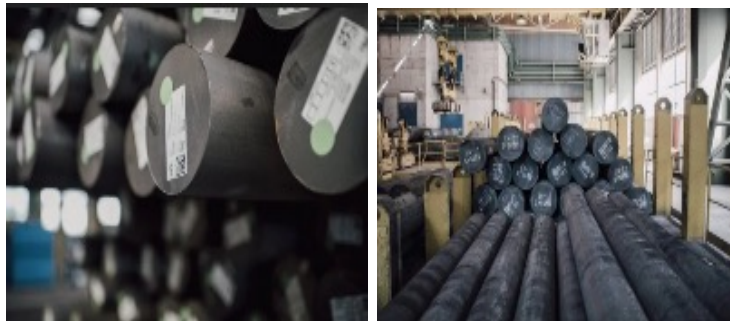4
Years
2023 - 2026

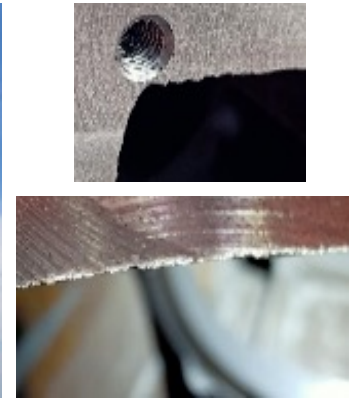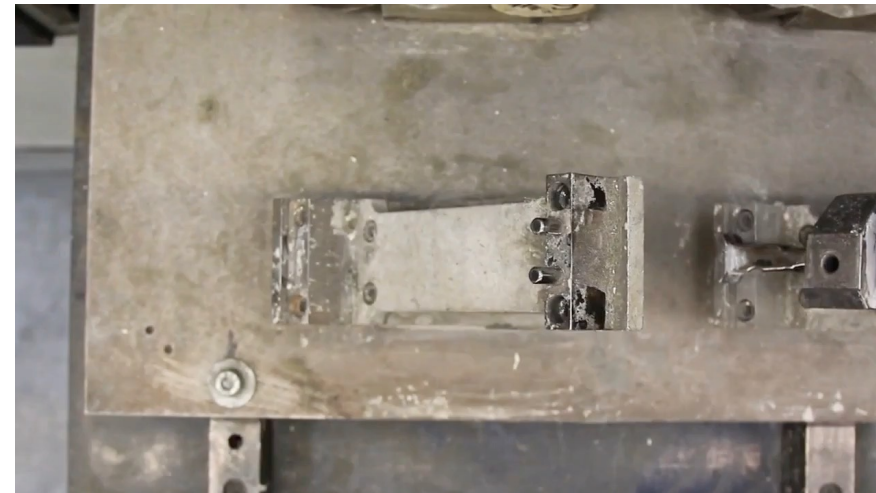Consortium from 7 EU Countries with 4 Pilots

Norway (3BFG): Defect detection
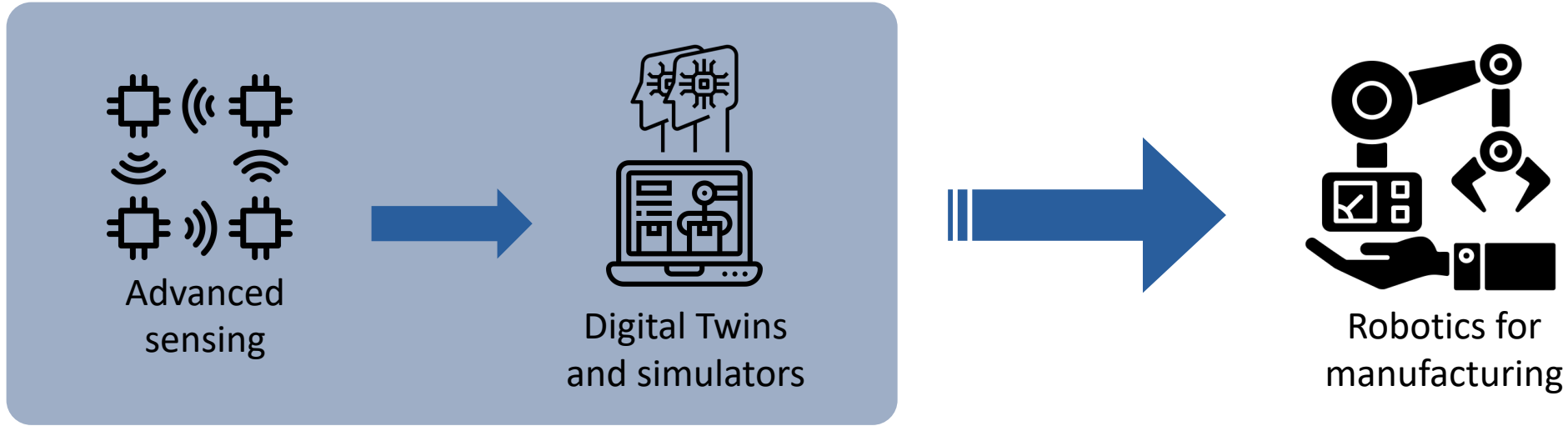(fiberglass production)

Spain (GOIK): Precision machining (deburring of large parts)
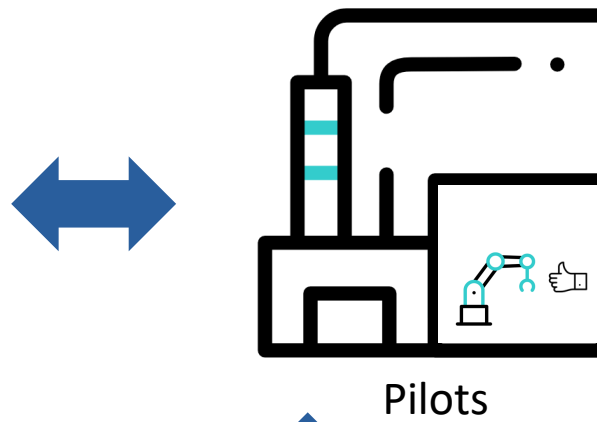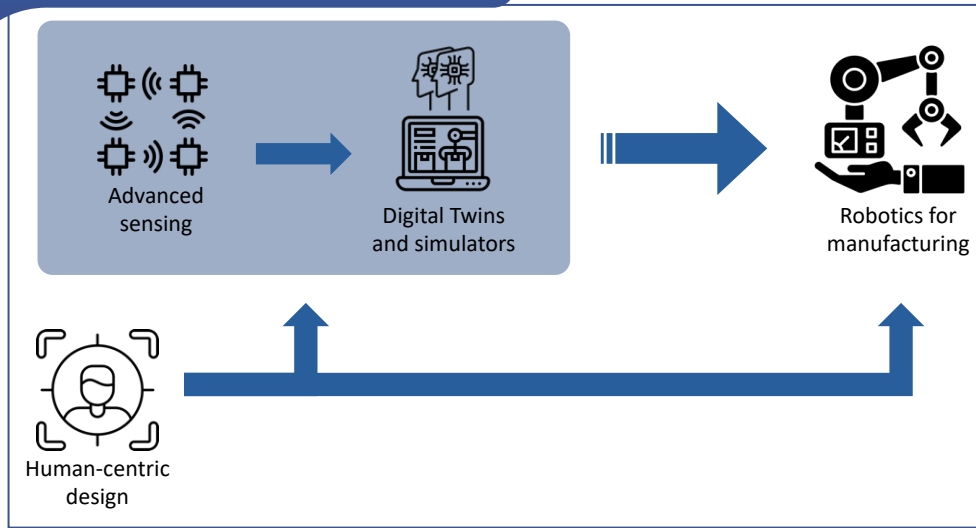

Italy (ABS): Flexible Manufacturing
(Digital library for batches)

Ireland (CROOM): Additive
Manufacturing for Medical implants

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Advanced sensing

Digital Twins and simulators

Robotics for manufacturing

Human-centric design

Collaboration with Japan

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Advanced sensing

Digital Twins and simulators

Robotics for manufacturing

Human-centric design

COGNIMAN TOOLBOX **& components**

C&D

Exploitation plan

Pilots

Network of open access pilots

SSH and regulation
AI Act
Data Act
Cyber-resilience Act

Market

Gaps and future challenges

Generalise the COGNIMAN toolbox

Additional sensors, models, DTs...

Further human-robot collaboration
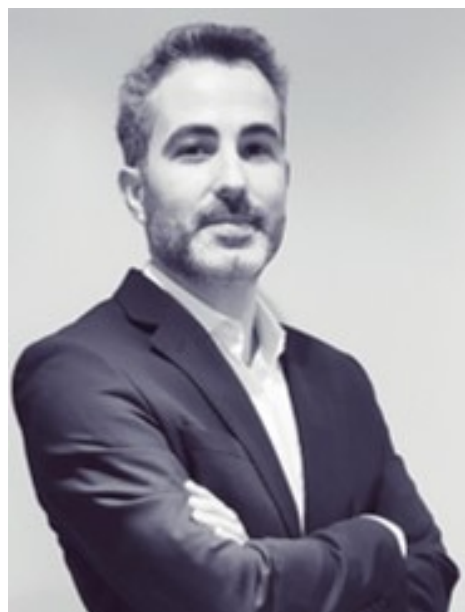
Autonomous behaviour prediction

Wide adoption of the developed technologies

Minimise learning curve and boost acceptability

Compliance with and adaptation of applicable regulations

Thank you!

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