



COGNIMAN at a Glance

Cognitive Industries at Smart Manufacturing

<https://cogniman.eu/>

Nabil Belbachir, Coordinator

NORCE Research AS



is developing and piloting 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

Horizon Europe COGNIMAN



11
€ mill.



16
partners



7
EU countries



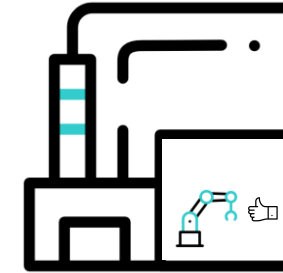
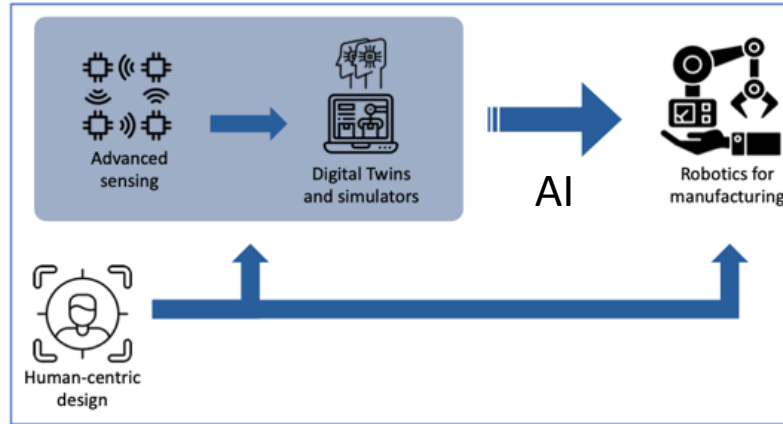
4
Pilots



4
Years
2023 - 2026



Coordinated by
NORCE



Pilots



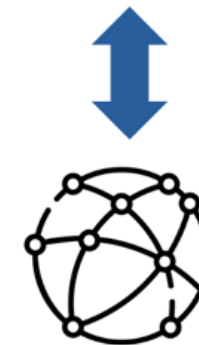
Market



C&D



Exploitation
plan



Network of
open access
pilots



SSH and regulation
AI Act
Data Act
Cyber-resilience Act



Funded by the
European Union

COGNIMAN Pilots

Pilot 1



Waste-free glass fibre production



Pilot 2



Precision machining –
deburring of large metal parts



Pilot 3



Effective additive manufacturing
of medical implants



Pilot 4

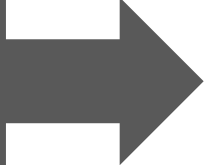


Flexible manufacturing –
digital library for batches



Current results

Major results
achieved



Toolbox online: <https://toolbox.cogniman.eu/>



Simulation architecture finalised



Pilot TRL 7 demonstrators in progress (KPI)



Human-AI teaming model established

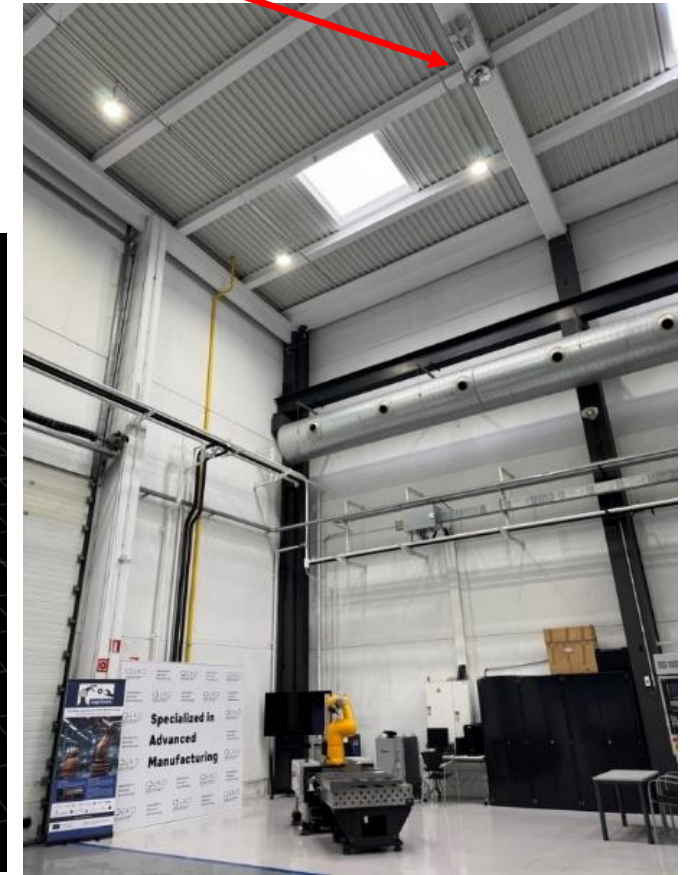
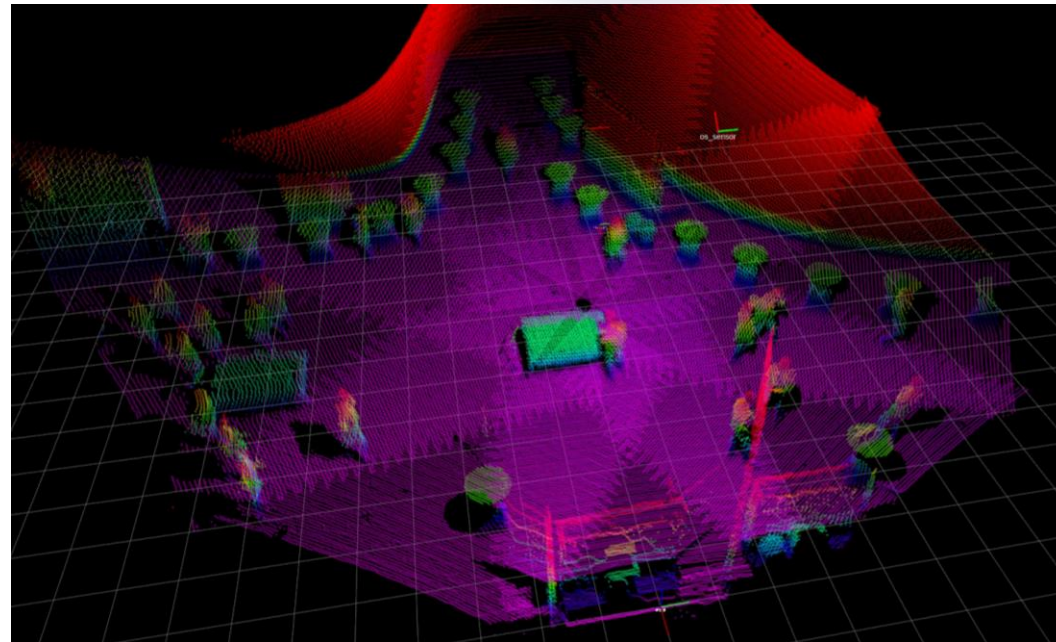
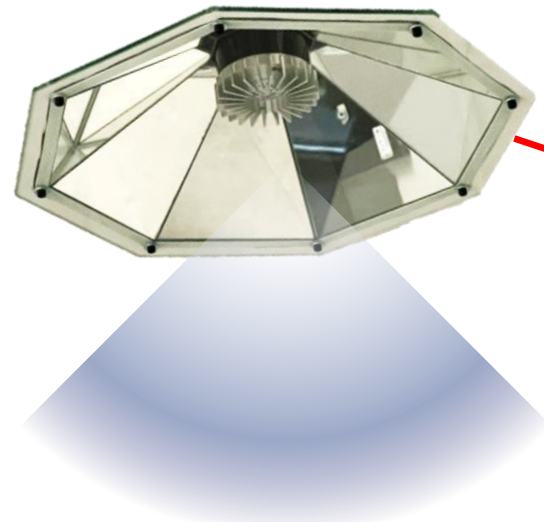


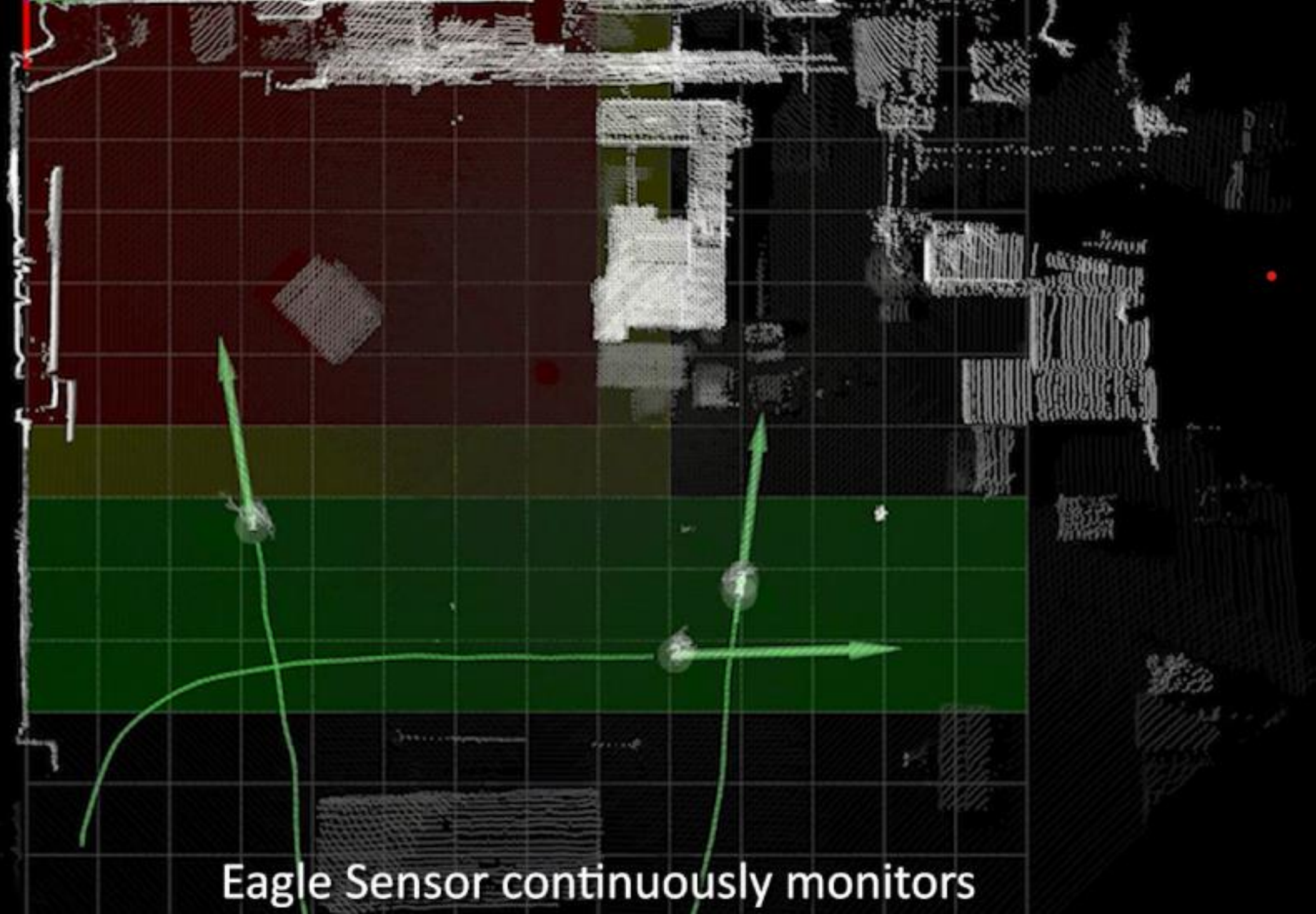
10 Key Exploitable results identified

Selected Highlight 1

Eagle Sensor

Safety at the heart of human-robot collaboration



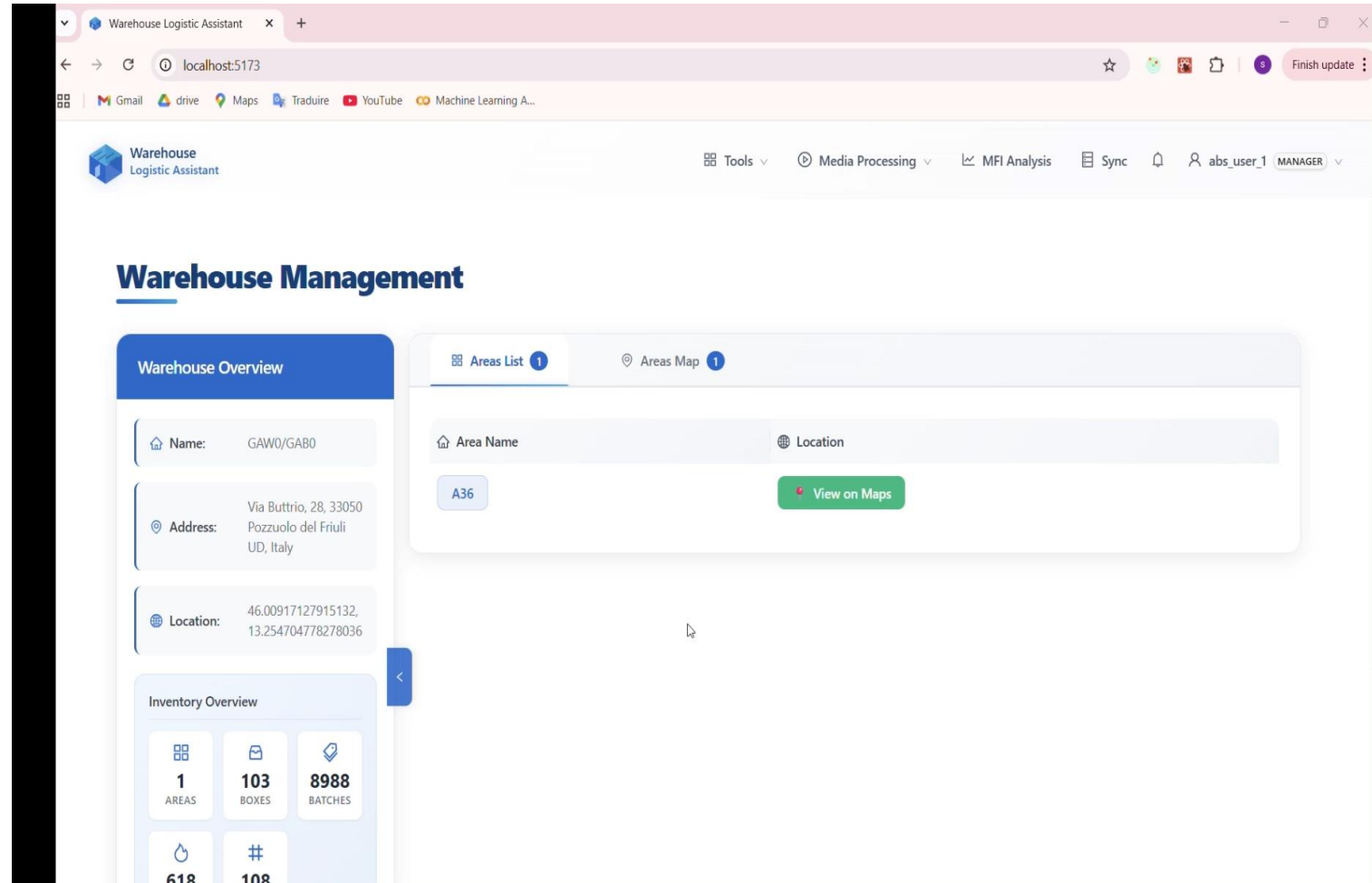


Eagle Sensor continuously monitors

Selected Highlight 2

SkyLog

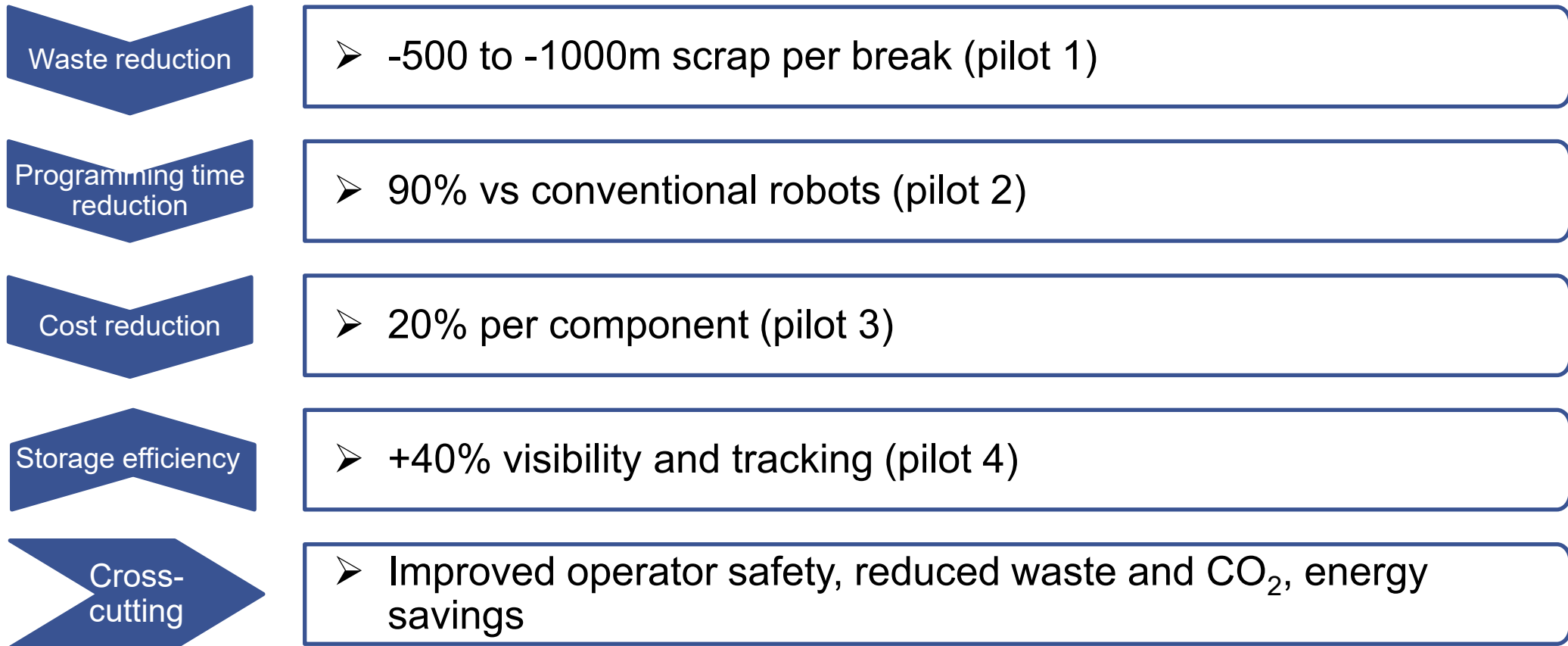
Drones take warehouse logistics to new heights





drone captured video to automatically

Impact progress



Dissemination and ecosystem

Toolbox open and accessible
<https://toolbox.cogniman.eu/>

- 8 scientific publications

- 17 articles and press releases

COGNIMAN Convention, Norway 2024

COGNIMAN Convention, France 2026

Active channels



<https://cogniman.eu/>



<https://www.linkedin.com/company/cogniman/>



<https://www.reddit.com/r/askcogniman/>

Thank you!



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