

VLAANDEREN
INDUSTRIE 4.0



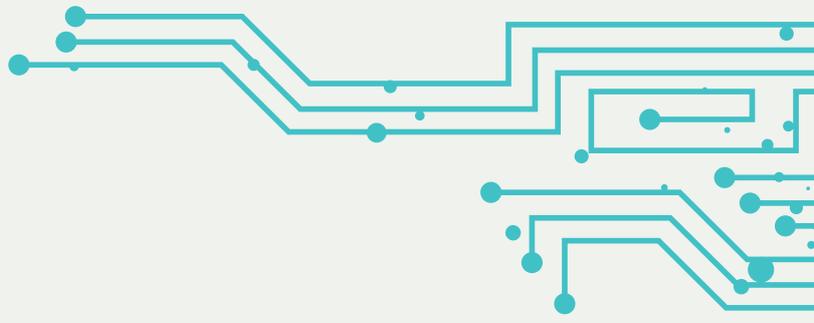
LIVING LAB SMART CONNECTIVITY

MATERIALS, MACHINERY & PRODUCT FLOW MANAGEMENT

CONTEXT

In order to remain competitive, Industry 4.0 innovations require far-reaching process insights, process optimization and flexibility. This project demonstrates & combines new ICT solutions that are crucial to always have an accurate and up-to-date information of the location and status of raw materials, products, machinery and personnel at the various stages of a production line.





TECHNOLOGY INNOVATIONS

1. Continuous wireless connectivity: with both static and mobile goods (AGV's, drones, robot arms, products, goods, etc.)
2. Continuous location awareness: cm-accuracy ultra wideband (UWB) localization & sensor fusion
3. Object recognition: camera based spatial orientation and inventory management

USE CASES AND DEMONSTRATORS

Target use cases: inventory management, automated process & product quality inspections, automated guided vehicles & drones, wireless control loops, autonomous robots and machinery, internal logistics, ...
Main demonstrator: automated drone for warehouse inventory management and process inspection.



OFFERING

- Demonstration rooms (Ghent & Leuven)
- Local technology demonstrations (in-situ set-up in realistic conditions)
- Masterclasses (in-depth technology discussions)
- Feasibility studies (valorization & technology)
- Consultancy (design of custom solutions)
- Business plans & valorization studies

met steun van

AGENTSCHAP
INNOVEREN &
ONDERNEMEN



Vlaanderen
is ondernemen

CONTACT

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