ZyGo Introduction

DE BLAUWE CLUSTER

19 DECEMBER 2023

ZyGo: who we are

"We develop **tailor-made autonomous robot/drone** solutions, including software, hardware, cloud services, prototyping and end-to-end testing. We deliver such complex solutions within a **short time-to-market and in a cost-effective** way due to digital twin simulation.

Our highly innovative solutions are uniquely designed to **improve productivity** for businesses and public authorities, specifically for human-operated tasks that are **dangerous, difficult, dull and data-deprived**. We leverage **AI to create added value** for our customers by improving accuracy, avoiding incidents, enabling predictive maintenance and by delivering smart, actionable data to many stakeholders."

Team (5 + 2 part-time)

30+ years of software development experience

25+ years of business, product & innovation experience
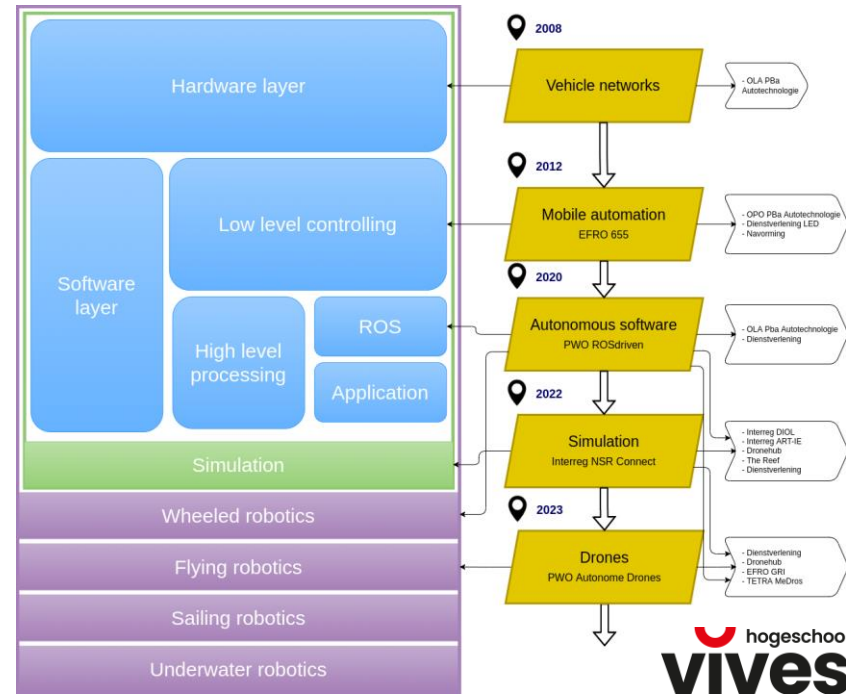
Co-founders

Arne Depuydt & Erik van Winkel

SOFTWARE

- ROS2-based autonomous navigation platform
- SLAM navigation
- Local processing (island mode)
- Cloud platform (fleet, customer and life cycle management)
- Data processing

HARDWARE

- Electric/mechanical design
- Sensors/cameras
- IoT modules
- Smart communication
- Autonomous charging systems
- Prototyping & testing

Digital twin simulation: incl. physics engine, sensor integration, sensor data visualisation

AI models: training with real-life and synthetic data
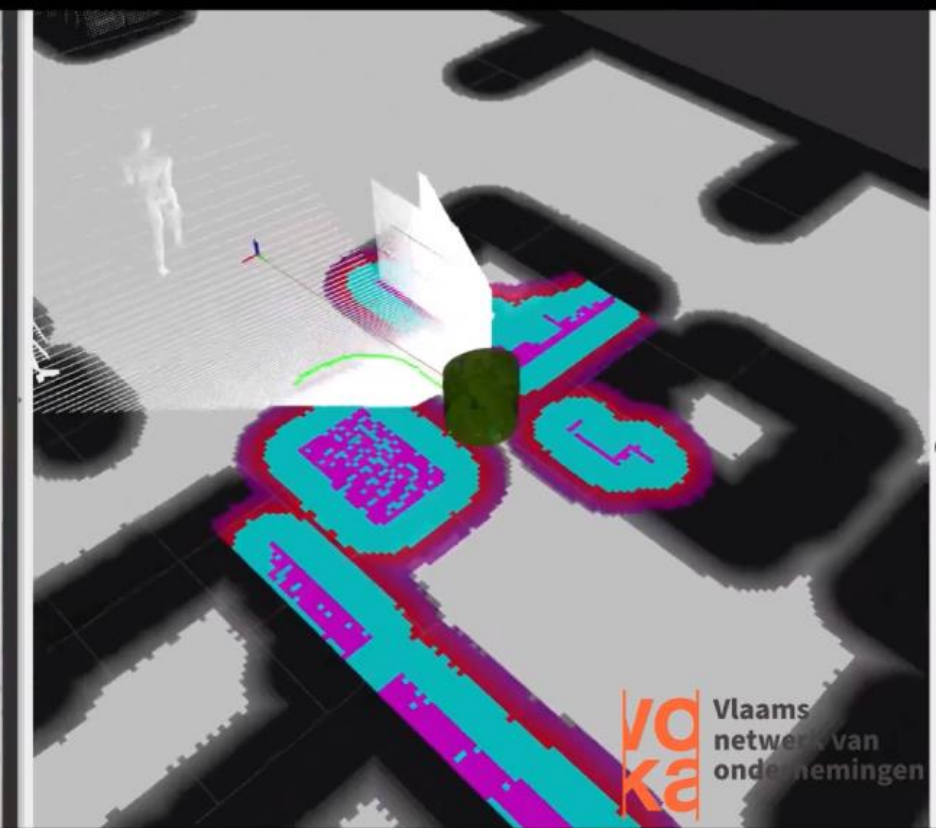—> predictive maintenance, 3D model analysis, AR/VR applications

ZyGo: what we do

ZYGO

Desinfection robot
- Digital twin simulation by Vives
- Prototype and software by ZyGo
- Autonomous navigation and fogging
- Smart data and reporting
- IoT capabilities

ZyGo: project examples

Multiple sectors in portfolio, including blue economy related ones

Project pipeline examples

1. Public infrastructure inspection with robots/floating drones (in progress)
2. Autonomous robotic solutions for inspection and maintenance at airports
3. Floating/diving drones for autonomous inspection at seaports and off-shore infrastructures

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Multiple sectors in portfolio, including blue economy related ones

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