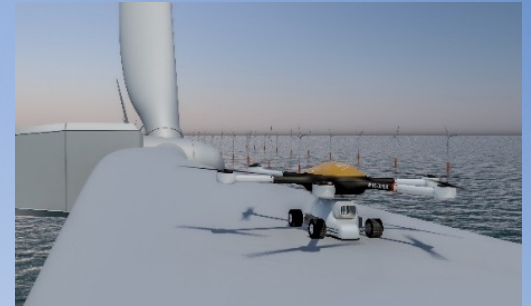
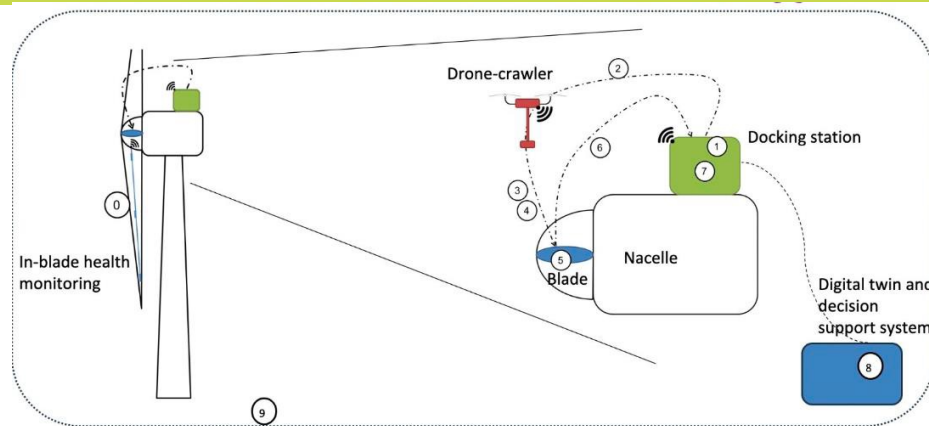



**WORLD CLASS
MAINTENANCE**

Status AIRTuB ROMI



Development of Inspection System



- **Future goal:**
 - Inspection system; generating internal blade health info
 - Drone/crawler/sensor system in residency unit on windturbine
- **AIRTuB ROMI:**
 - Residency unit on Offshore High Voltage Station
 - Partially automated/autonomous
- **Inspection system:**
 - Region of interest for inspection based on information from
 - Sensors in windturbine blades
 - Digital twin in combination with asset management system

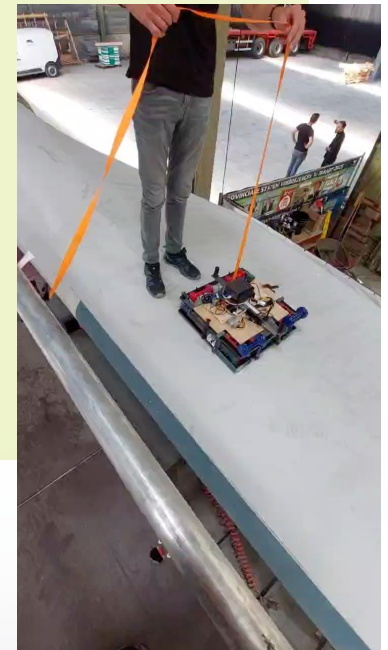


Development Drone & Crawler



Developments

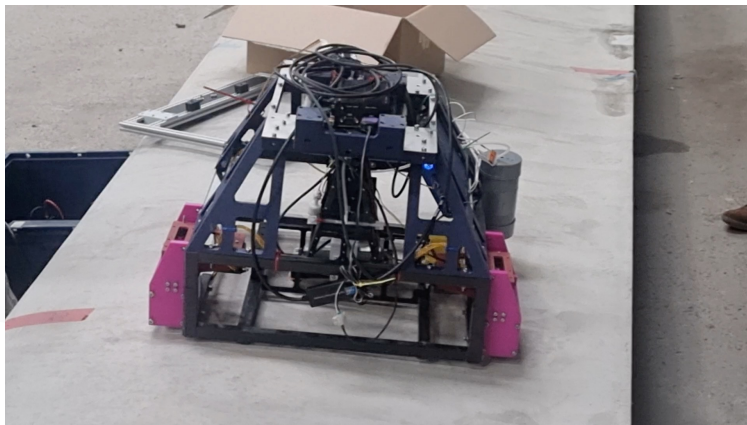
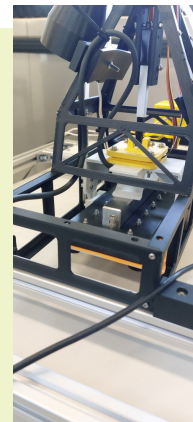
- Drone
 - Navigation
- Crawler
 - Navigation
 - Driving, scanning



Development of Ultrasonic Sensor Systems



- Ultrasonic transducer sensor systems
 - Rolling probe sensor
 - Sliding probe sensor
 - Lifting device
 - Fluid supply



WORLD CLASS
MAINTENANCE

Development of Residency Unit



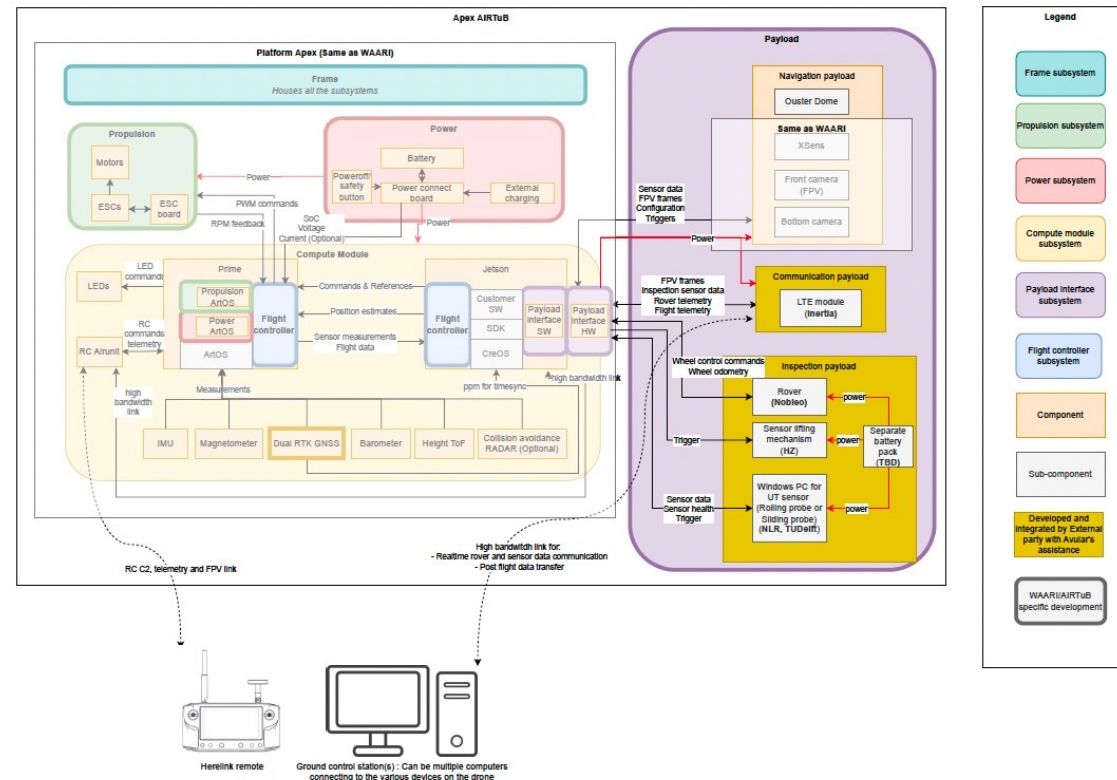
- Residency unit; “nest”
 - Offshore High Voltage Station
 - Durability test at RWS Stellendam
 - Contains controls, communication, battery charging, fluid supply



Development Communication & Controls



- Communication & Controls
 - Real time control
 - Video streaming
 - Data transfer



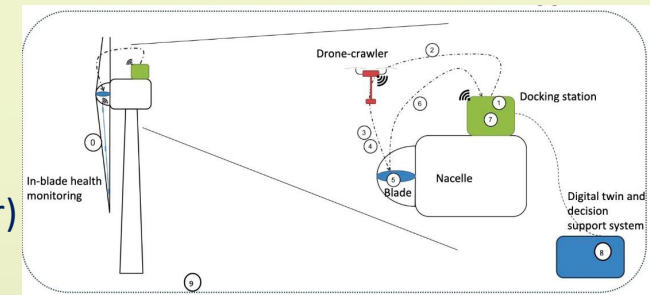
Development Integration & Test Phase



- Integration and test phase:
 - Integration test plan execution; ongoing
 - 10 flawless missions; June '26
 - Onshore mission; autumn '26
 - Offshore mission; spring '27



- Weight/mass is our enemy
- Focus:
 - All subsystems working together
 - Make subsystems lighter
 - Quote Colin Chapman (owner Lotus company/chief engineer)
 - “Simplify and then add lightness”



Q&A

