



**AUSTRIAN INSTITUTE
OF TECHNOLOGY**

AUTONOMOUS FORKLIFT FOR OUTDOOR OPERATIONS



OPERATION IN HARSH CONDITIONS

The forklift operates safely and reliably in challenging conditions. Sensor and mechanical challenges are mitigated by advanced systems, ensuring performance despite:

- reflective puddles,
- darkness, fog, sun, rain, snow, etc. that reduce visibility, and
- slippery and bumpy terrain that affects odometry





AUTONOMOUS LOADING OPERATIONS

- Specially designed for use in outdoor logistics
- Adaptive operation in unstructured environment
- Automated navigation and material handling

AUTOMATION COMPONENTS

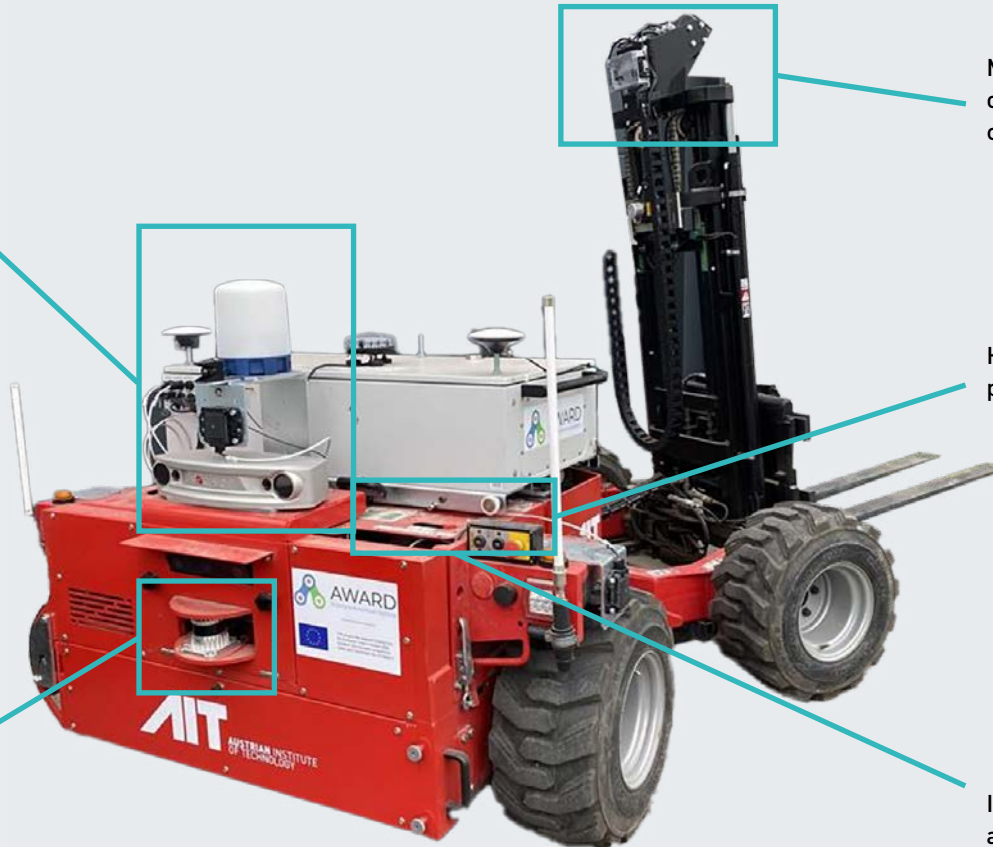
Sensor-systems
under evaluation

Multi-modal
object detection &
classification

High-precision
planning & control

All-weather
obstacle detection

Intelligent
automation system



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