



AUTONOMY FOR ROBOTS

Mobile Robotics Summit 2025

Company

ARTI – Autonomous Robot Technology GmbH

AI software solutions with rapid integration and ready-to-use autonomous behaviors.

- Austrian High-Tech Start-Up
- Founded in 2019 at Graz University of Technology
- Team of 13 employees
- Customers across Europe
- Headquartered in Graz, Austria

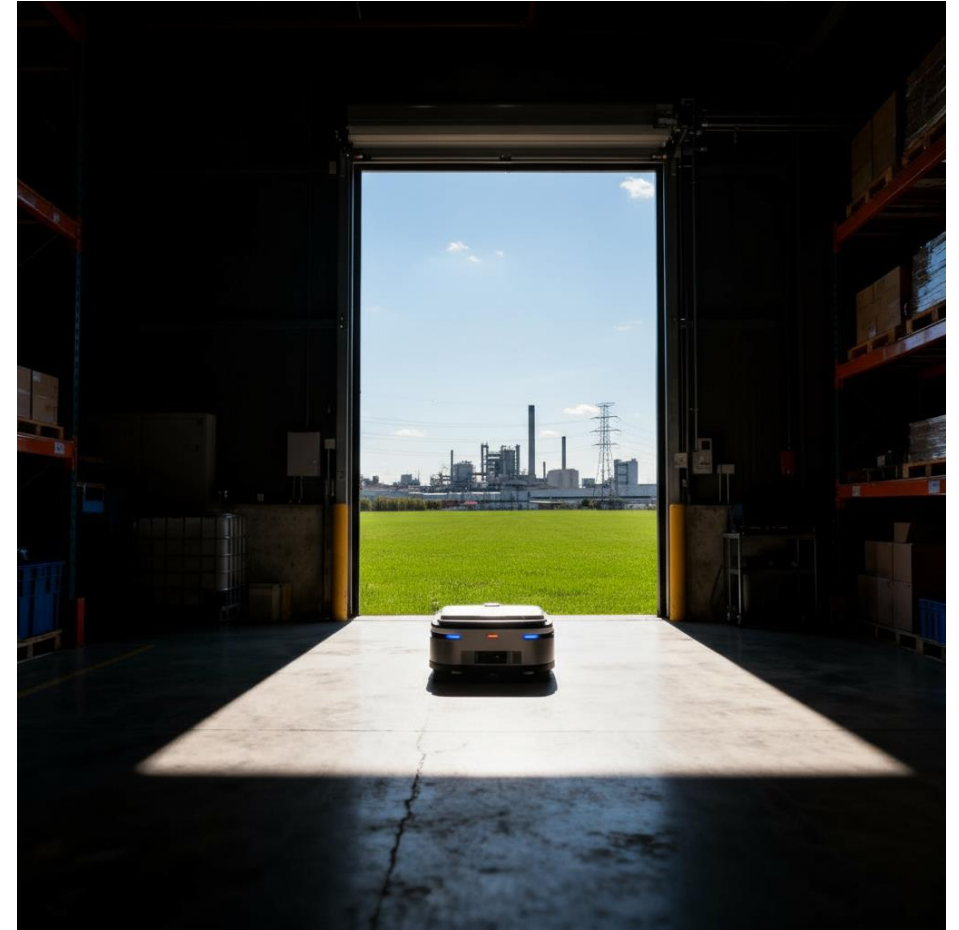
Innovating products and services through research integration

- Embedded in a dynamic industrial and tech network
- Strong ties to top universities and research hubs
- Experience in different market sectors



ARTI Approach

Automation vs. Adaptation – Edge vs. Operational Environment
We are not stopping at the front door.

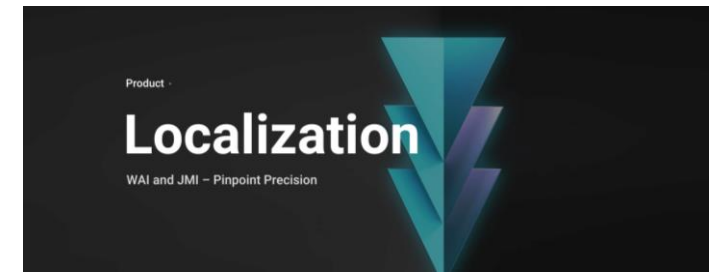


Technology Offering – Software for Autonomous Mobile Vehicles

Providing ready to use software components designed for fast integration and easy maintenance.

Utilizing modular software design for a wide configuration space.

- Ground bound vehicles
- Off-highway domain
- Indoor and outdoor applications
- Modular structure
- Hardware agnostic
- Broad spectrum of potential use-cases
- High flexibility
- Great adaptability



Mapping / Localization / SLAM

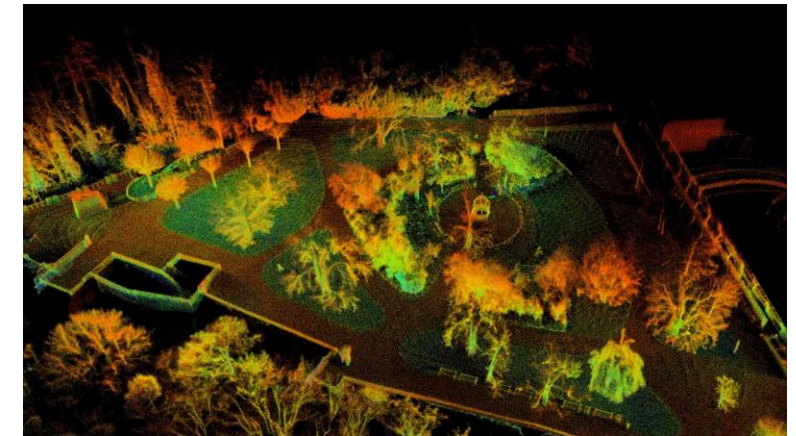
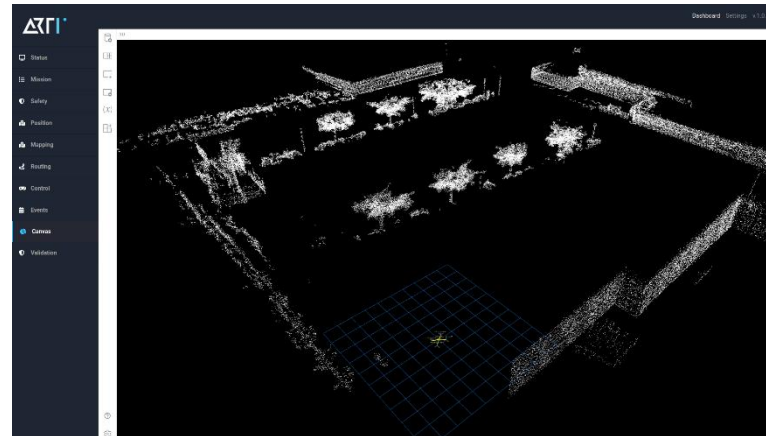
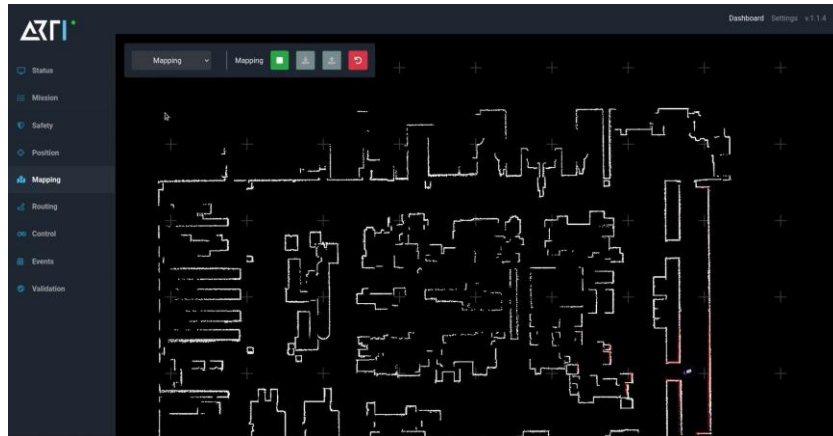
Accurately map your operating environment in both 2D and 3D.

We provide high-quality, reliable maps optimized for precise localization and efficient planning.

- High fidelity and high precision
- Realtime results (10 Hz - 50 Hz)
- Robustness through redundancy
- Combined use of multiple sensors
- Processing of large areas
- Easy operation via WebApp

High position accuracy:

- Expected: $xyz < 20 \text{ mm}$ / $rpy < 1.0 \text{ degree}$
- Optimized: $xyz < 2 \text{ mm}$ / $rpy < 0.5 \text{ degree}$



Navigation

Navigate autonomously from a starting point to a target location with precision and reliability.
We provide a complete navigation suite designed for both indoor and outdoor robotic applications.

Complete navigation suite for AMRs

- Large operating areas
- Supports various drive mechanics
- Expandable sensor setup
- Robust in challenging conditions
- Fleet management via VDA5050
- Localization and Mapping included



Fleet Management / Cargo Routing

Full control of the fleet, no matter the operational area size.
Adapted VDA 5050 interface standard for seamless outdoor operation.

- Designing routes
- Managing multiple robots
- Processing of large outdoor areas
- Easy usage
- Integration of satellite information



Services



Explore

your ideas with us from the very beginning. Develop design strategies and prototypes that balance high quality with cost-efficiency.



Create

a product built on well-engineered and extensively tested software components for reliable performance.



Improve

existing solutions with our expert knowledge. Collaborate with us to fully exploit the maximum potential of your product.



Support

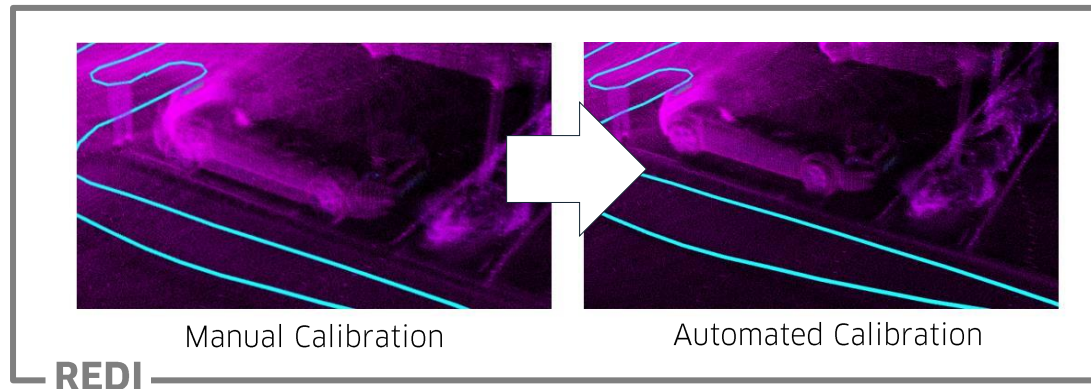
your decisions with expert advice and industry insights. Benefit from an external perspective with experience in autonomous products.

Thinking beyond the vehicle – Integration Tools

Our innovative tools and research projects streamline each stage of the integration process, ensuring efficient and effective deployment of autonomous robots at technology beyond the state-of-the-art.

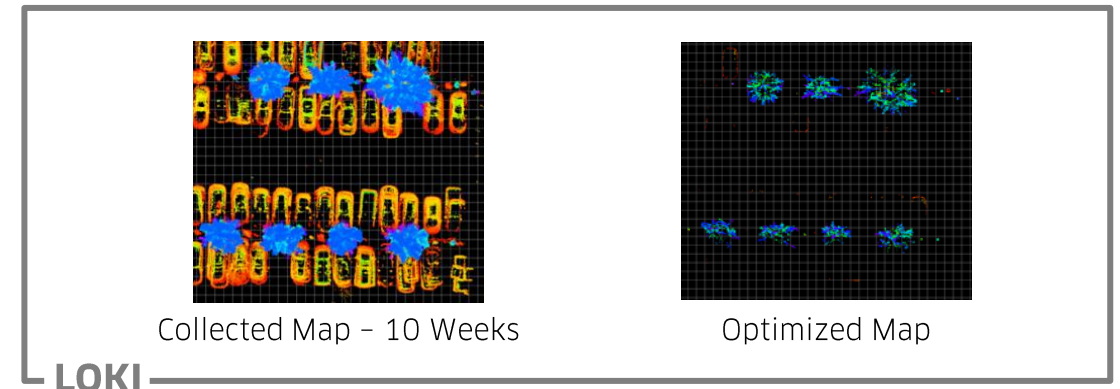
REDI

Assistance Tool for Integration and Calibration



LOKI

Automatically incorporate dynamic changes into maps.



TASTE

AI based generation of test cases in simulation

AVASI

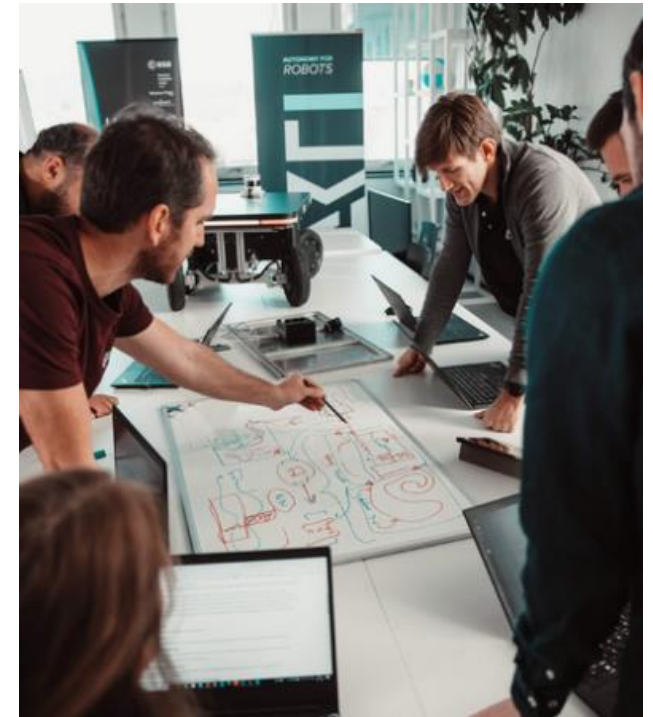
Optimizing robotic simulations by closing Sim2Real gap

Collaboration & Partnership

Combining research knowledge with practical data from the industry.
Working together to exploit the maximum potential.

Contact us if you are

- Systems integrators & automation OEMs
- Robotic sensor and hardware OEMs
- Providers of automation systems in logistics, manufacturing etc.
- Research institutions
- Searching for robotic autonomous solutions in domains like logistics, inspection, agriculture, construction or civil protection
- Or generally in need of robotics expertise



Get in Touch

A simple conversation can go a long way.
Contact our team of experts to start the conversation.

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Partners



business
incubation
centre
Austria

ARTI is an Alumnus of
ESA Business Incubation
Centre Austria 2023



Science Park
The High Tech Incubator
Graz

- Alumni

CREATORS EXPEDITION
An AVL Initiative

