



AUTONOMY FOR ROBOTS

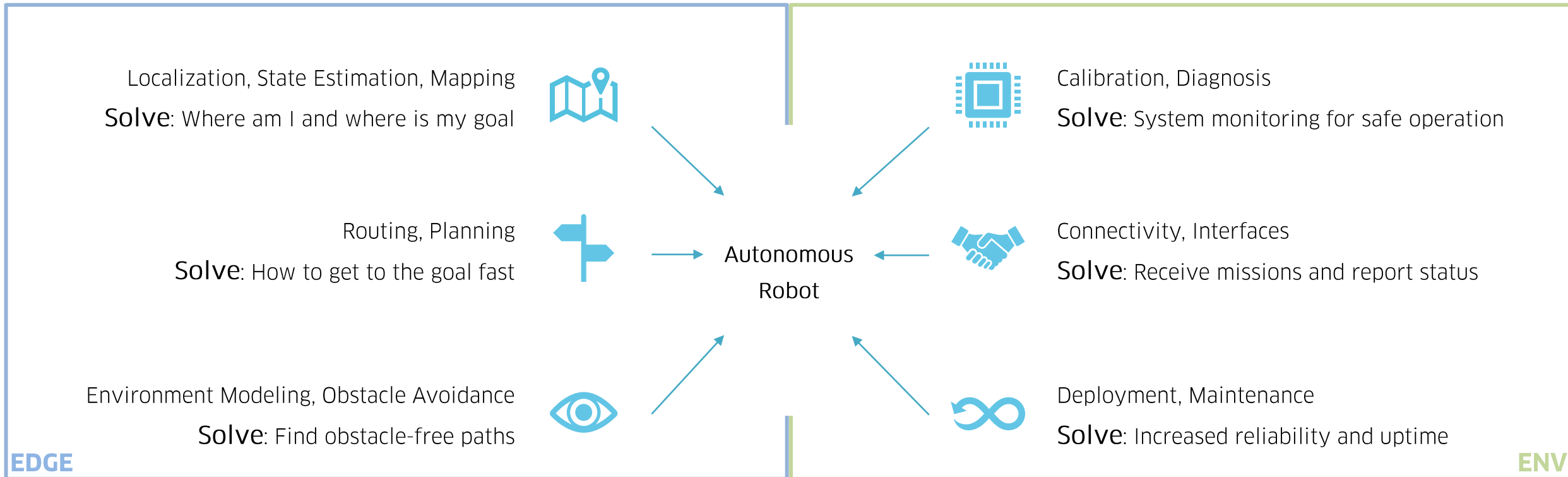
AI Kits



Problem: Automation vs Adaption

Even though different robots require similar parts, **complexity is increasing**

We distinguish between applications **directly on the robot** (Edge) and the **ecosystem** (Env) in which they operate



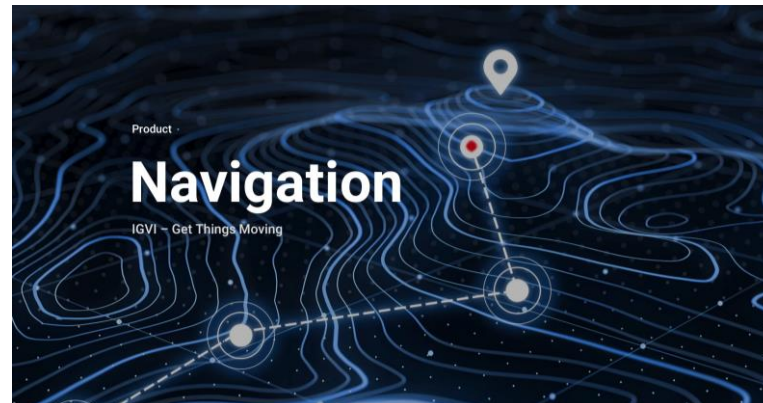
AI Kits

Modular software design allows customer assembly and wide configuration space.

Providing ready to use software components designed for fast integration but easy long-term maintenance.



- Mapping (JMI)
- Localization (WAI)

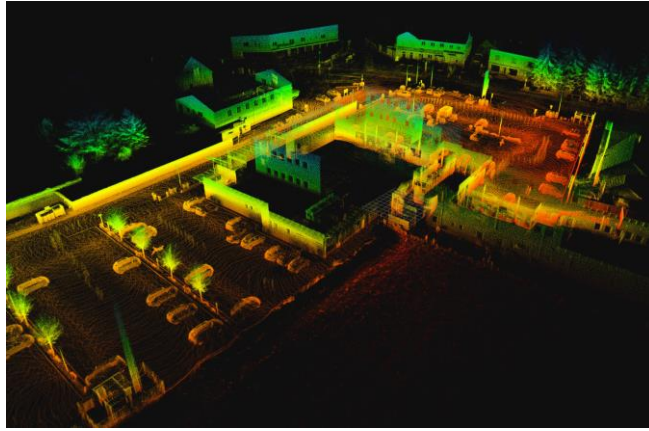


- Indoor Navigation (IGVI)
- Outdoor Navigation (-) - soon

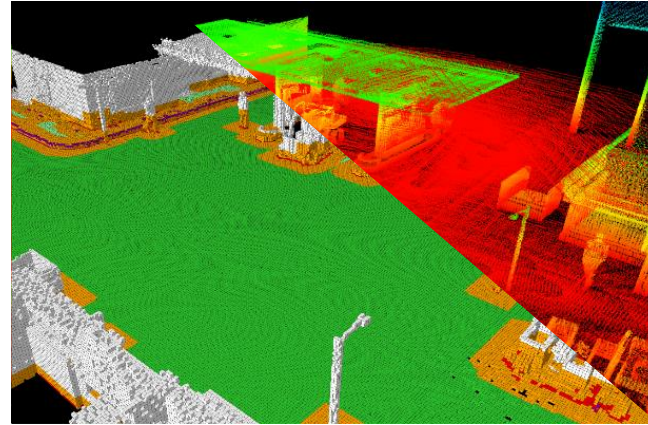


- Outdoor Management (FLI)

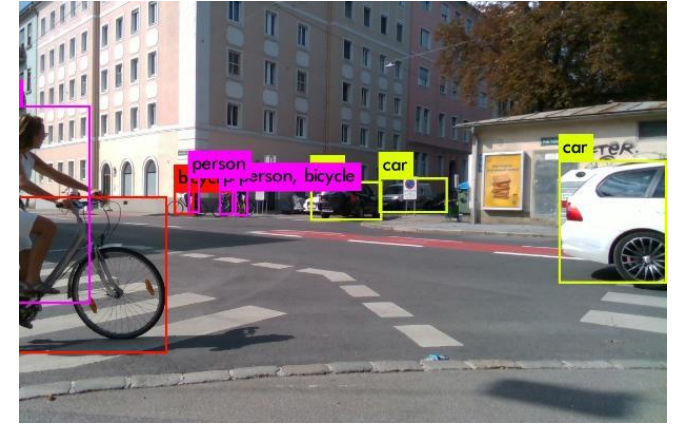
AI Kits



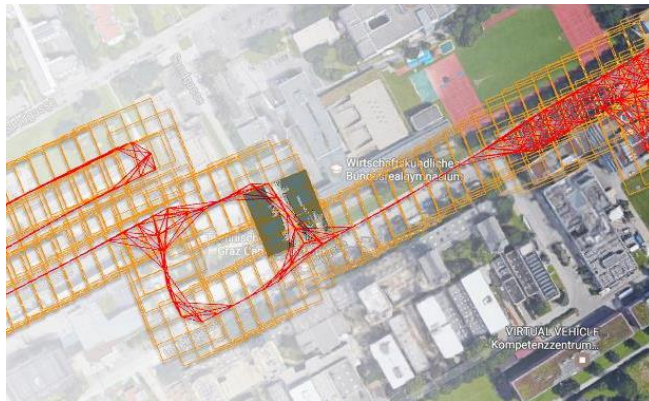
Mapping and Localization



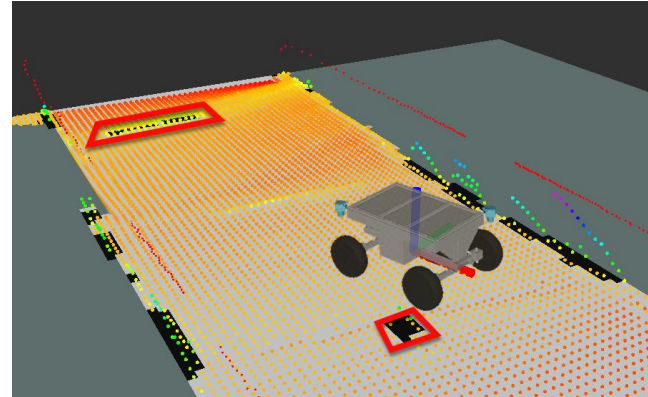
Environment Perception



Scene Understanding



Routing and Planning



Obstacle Avoidance



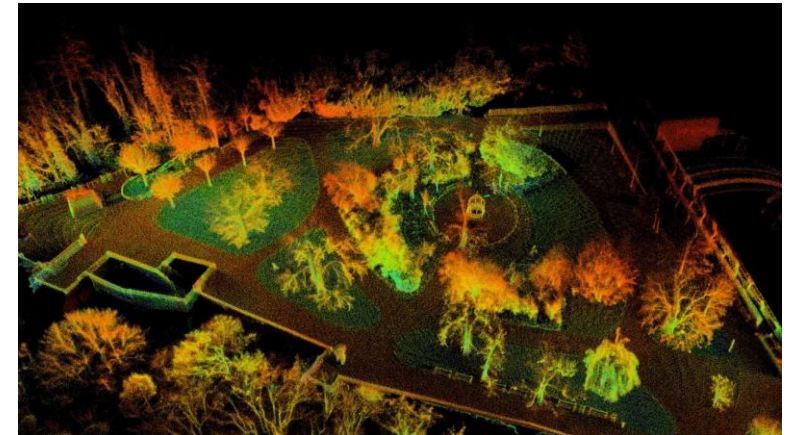
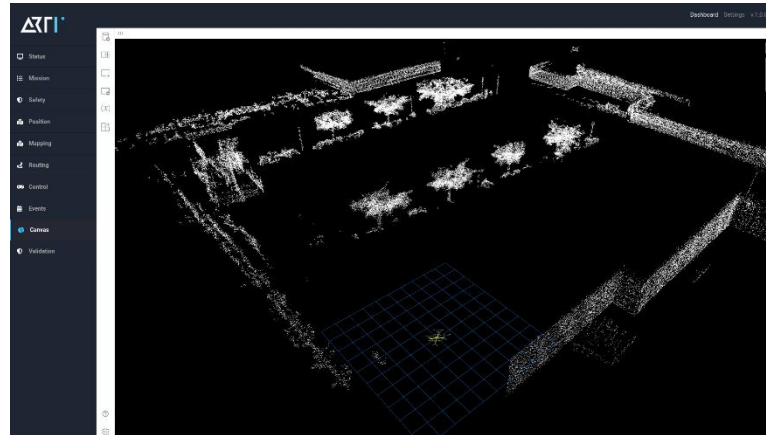
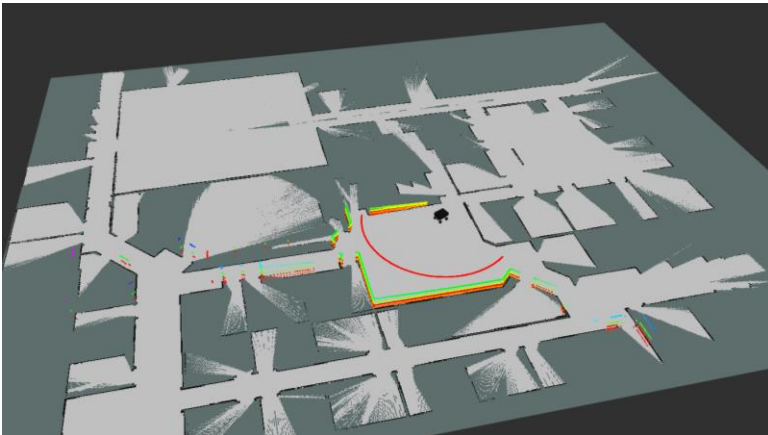
Digital Twin

Mapping / Localization / SLAM

Map your operating environment in 2D or 3D.

We offer high-quality maps for localization and planning.

- High fidelity and high precision
- High position accuracy ($< 2\text{cm}$ / < 1.0 degree)
- Realtime results
- Processing of large areas
- Easy usage
- Usage of multiple sensors



Navigation

Navigation, in the meaning of driving autonomously from a starting position to the target point.
We offer complete navigation suite for indoor and outdoor robots.



- Complete navigation suite for indoor robots
- Suitable for large operating areas
- Fleet management via VDA5050
- Supports different drive mechanics
- Expandability of sensors
- This package includes Localization and Mapping
- Interface to JMI available

Navigation

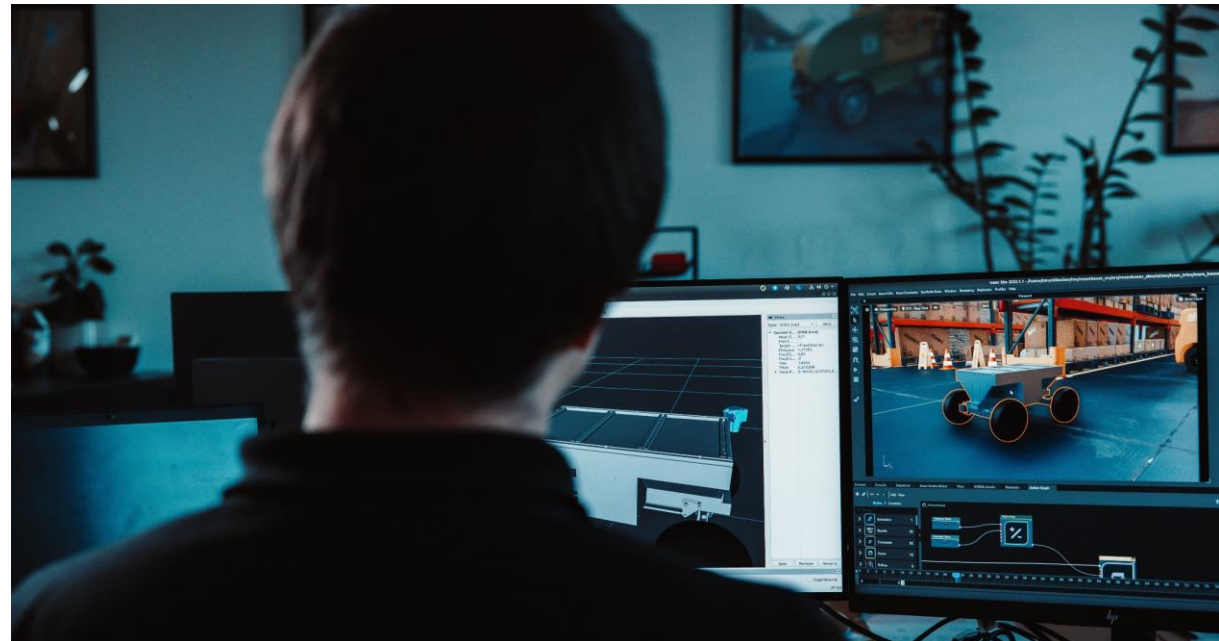
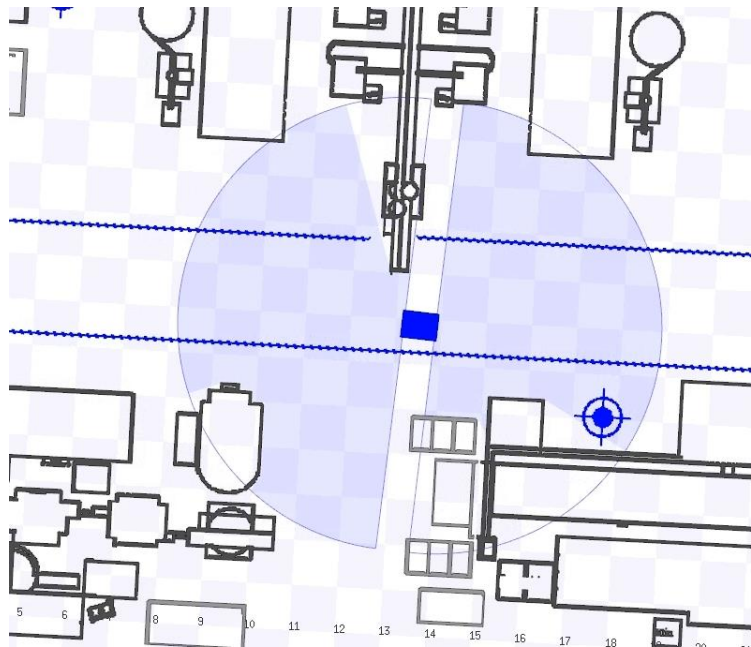
Navigation, in the meaning of driving autonomously from a starting position to the target point.
We offer complete navigation suite for indoor and outdoor robots.



Simulation

We cover multi-robot simulations from low resolution to fully 3D worlds.

Evaluate your robotic system in simulation to minimize deployment risks and discover unwanted results.

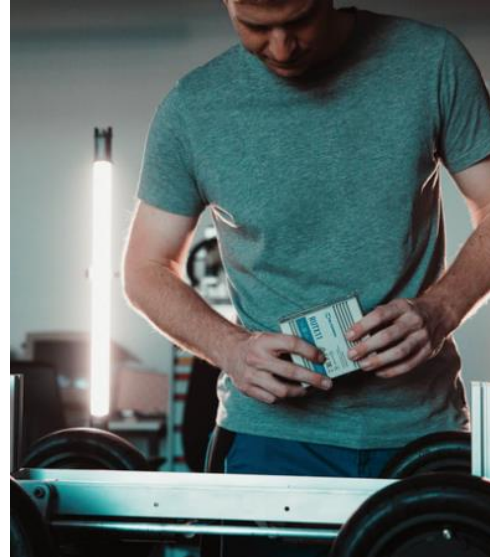


Services



Explore

your idea from the very start with us. Create design strategies and prototypes for high-quality yet cost-efficient solutions.



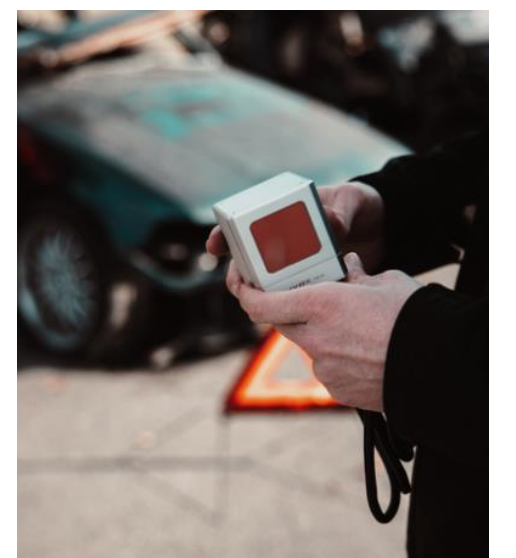
Create

a consumer ready product. Achieved with well-engineered and extensively tested software components.



Improve

existing solutions with our expert knowledge. Work together to exploit the maximum potential of your product.



Support

your decision with expert advice. Benefit from an external opinion and solid experience in autonomous products.

References

HUBTEX.



- Localization
- Navigation
- Obstacle Avoidance
- Fine Positioning

KEBA[®]
Automation by innovation.



- Outdoor / Indoor Localization
- Navigation
- Dynamic Planning
- Obstacle Avoidance

serva 
transport systems



- Outdoor / Indoor Localization
- Collision avoidance
- Dynamic Obstacles

Company

ARTI – Autonomous Robot Technology GmbH

Autonomy for robots

Founded in early 2019 with 6 shareholder

High-Tech Start-Up from Austria

Spin-off of the Graz University of Technology

Employees: 16

Customers across Europe

Continual research projects to increase the quality of our products and services

Offices in Graz, Styria (Austria)

- Embedded in industrial and high-tech network
- Excellent connections to universities and research institutions
- Excellent transportation links and a central location within Europe

Science Park
The High Tech Incubator
Graz

- Incubated in 2017



INCEPTION PROGRAM

- Incubated since 2018



**business
incubation
centre**

Austria

ARTI is an Alumnus of
ESA Business Incubation
Centre Austria 2023

- Incubated in 2021

Get in Touch

A simple conversation can answer a lot of questions.
So don't hesitate to get in touch!

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Partners



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