ARTUS Information for Sponsors

Project Lynx

Find all important information about our project, our team, and the benefits for your company in this presentation.

Overview

ARTUS – the Autonomous Robotics Team University of Stuttgart was founded in May 2024 as an official university group and registered German association.

The team has developed a fully proprietary autonomous snowplow robot, entirely designed, built, and programmed in-house. The modular platform integrates modern sensor technology and advanced control systems and is continuously being improved in both hardware and software.

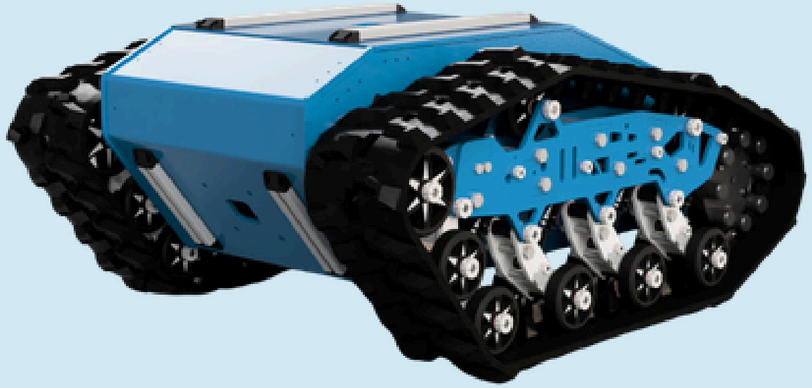
At the Autonomous Snowplow Competition in the USA, ARTUS achieved 4th place and received the Sportsmanship Award. The team will return to the competition in 2027 and is also preparing to participate in further international robotics events, including the ELROB competition in Switzerland.

The Team

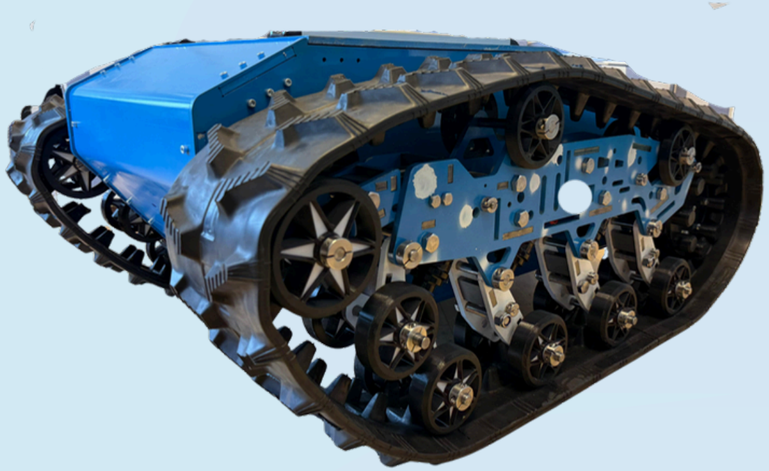
As of February 2026, our team consists of

Over 25 students
From 9 different study programs (B.Sc. & M.Sc.)
More than 2,500 hours of work invested in the project

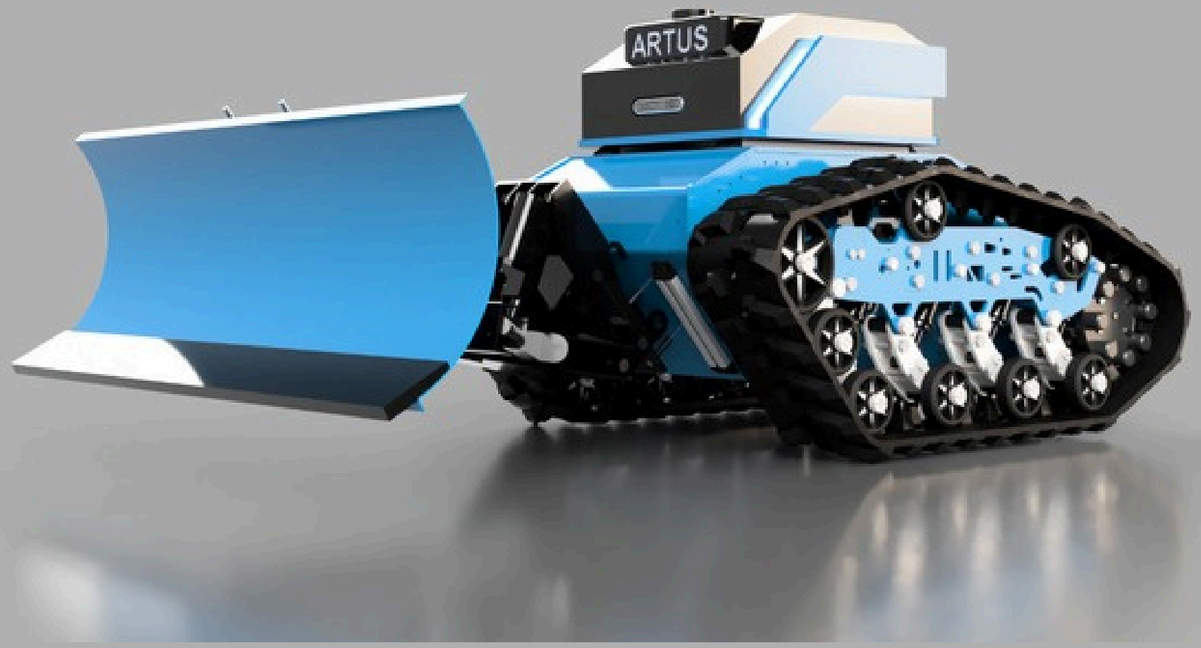
Our robot

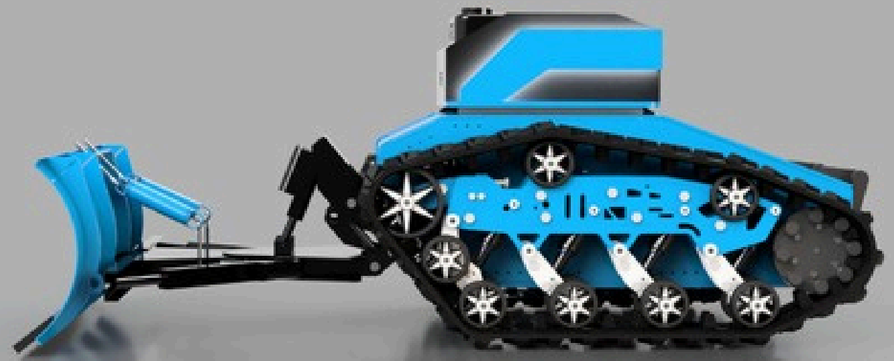


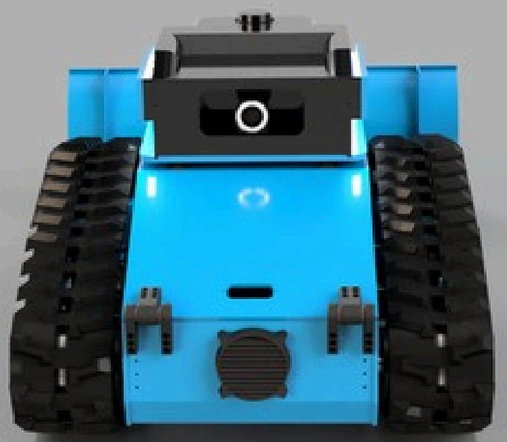
From the idea



To the final result


ARTUS






ARTUS
LITEF
Leading Inertial Technology
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Funded by the Ministry of Science, Research and Arts of Baden-Württemberg as part of the state's aerospace strategy

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TORO
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ARTUS
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ARTUS

Our robot

The Lynx robot is a compact and robust autonomous platform designed for both indoor and outdoor applications.
It is powered by two DC-Servomotors with worm gears and a self-developed 5.376 kWh $LiFePO_4$ battery system.
The robot is equipped with a suite of advanced sensors for navigation and environmental perception, including:

- A GNSS system supporting GPS, GLONASS, BeiDou, Galileo, and QZSS for global positioning
- An Inertial Navigation System (IMU) with a gyroscope and a 3-axis accelerometer
- A 2D LiDAR for SLAM and obstacle detection
- An RGB camera for visual sensing
- A depth camera for obstacle detection and visual analysis

Lynx features modular compartments and standardised interfaces for additional equipment or payloads, enabling a wide range of autonomous operations in harsh or complex environments. It can reach speeds of up to 8 m/s, climb steps, and operate reliably in temperatures ranging from –30 °C to 40 °C.
Its design focuses on applications in autonomous snow removal, robotics research, and industrial environments that demand robustness, versatility, and high performance.

Your benefits as a sponsor

Bronze
> 500 €

- Reference on our Website
- Social Media Post

Silver
> 1,500 €

Previous Benefits +

- Blog article about your product
- **Logo on our robot**

Gold
> 2,500 €

Previous Benefits +

- Two more Social Media Posts
- Job/Internship postings to our team
- **Invitation to our Office**

Platinum
> 5,000 €

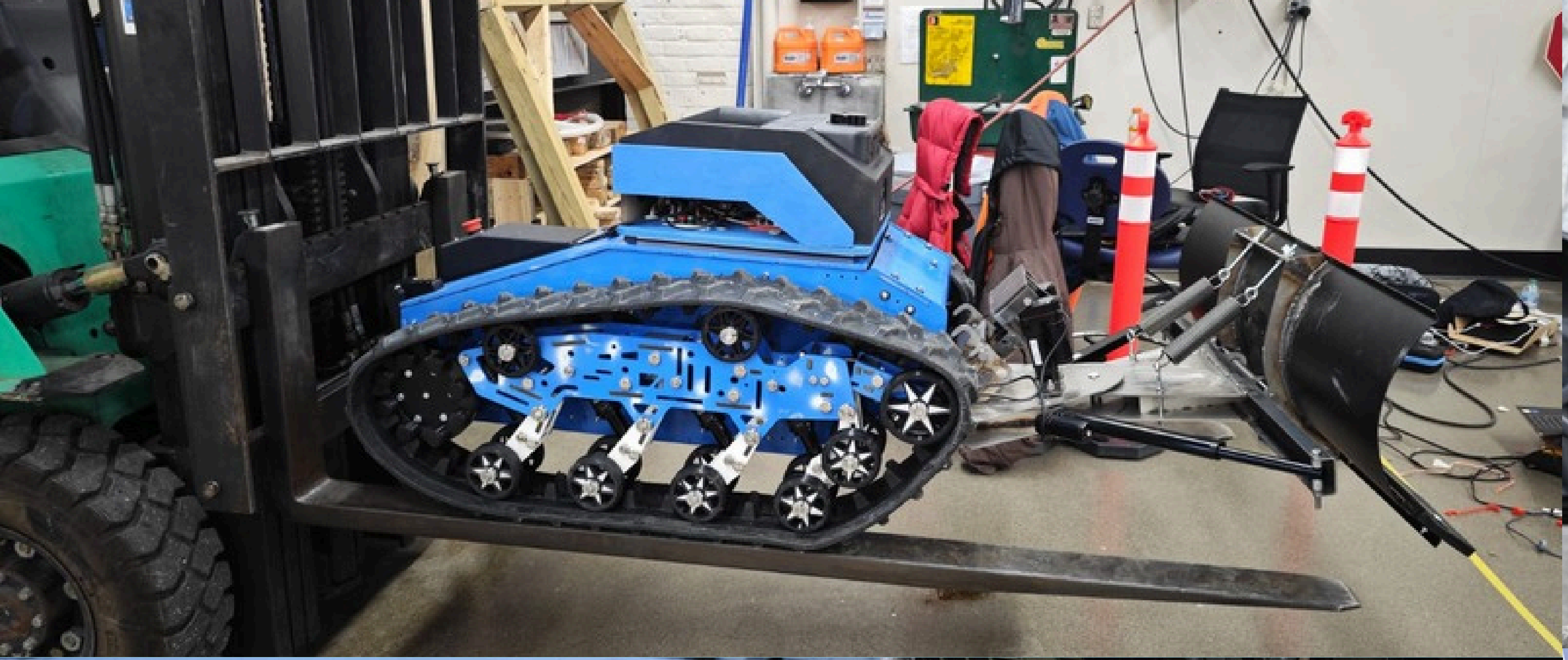
Previous Benefits +

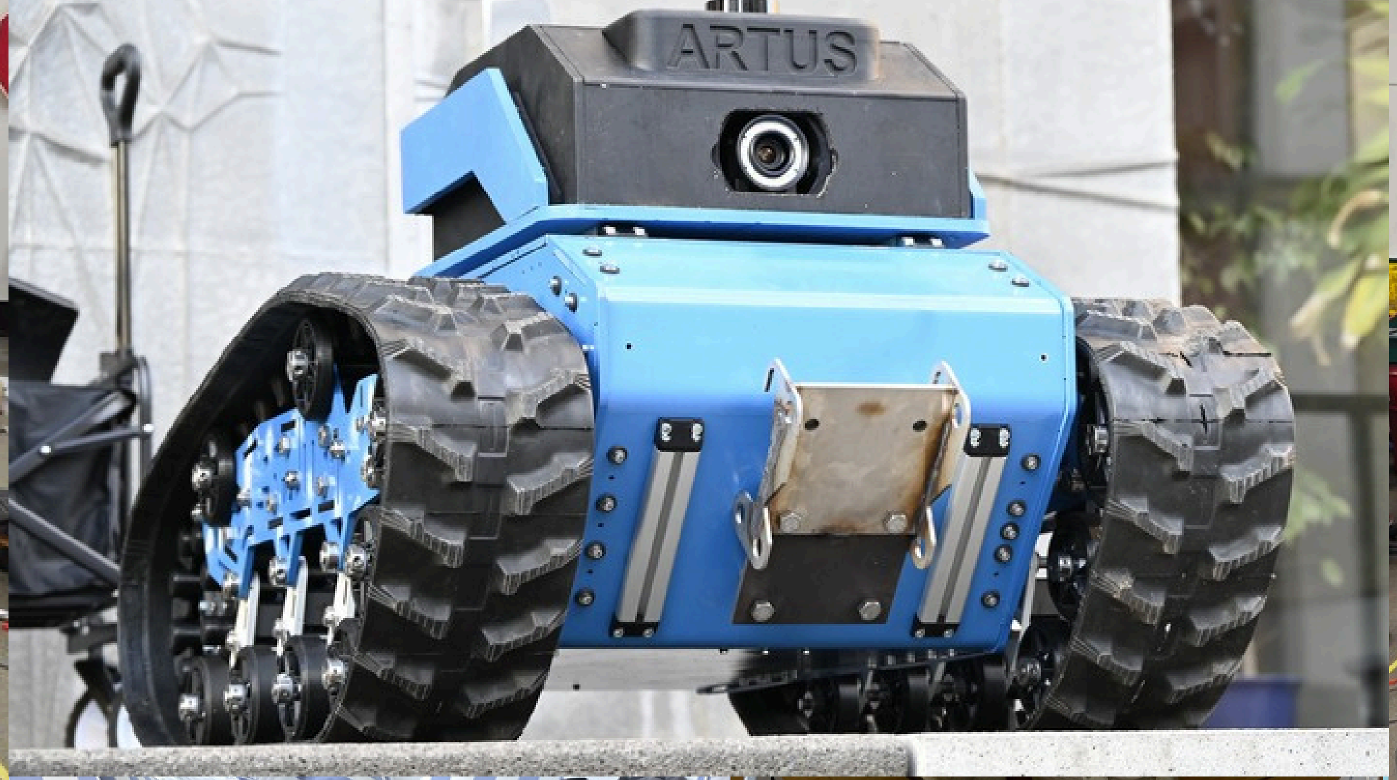
- **Large Logo on our robot**
- Placement of your logo on a banner that will be displayed on all ARTUS Public Events and Competitions

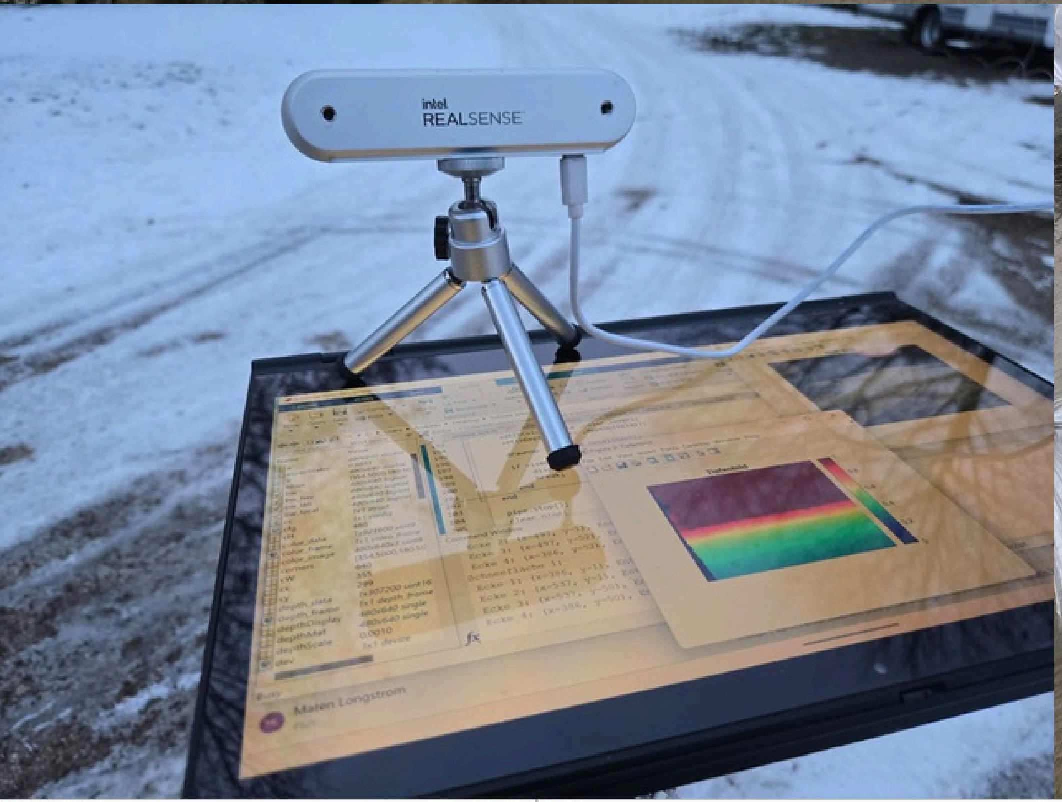
Diamond
> 7,500 €

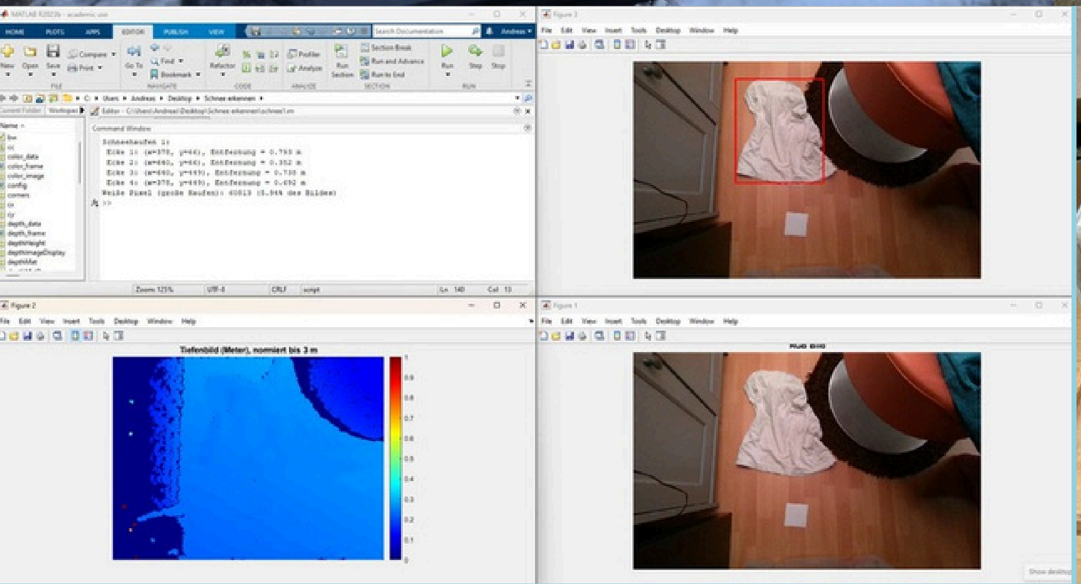
Previous Benefits +

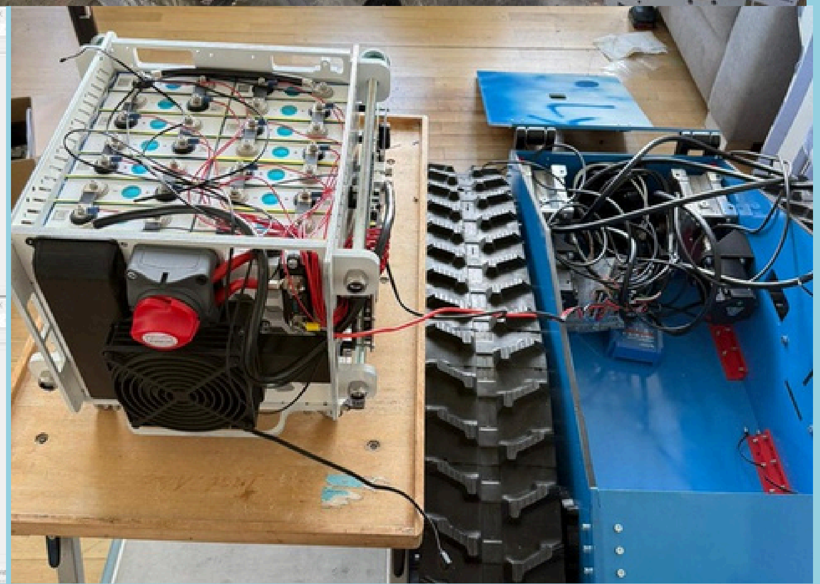
- **Main Logo** Placement
- Test ride with our robot
- Reference in public presentations











A selection of images from the development process.

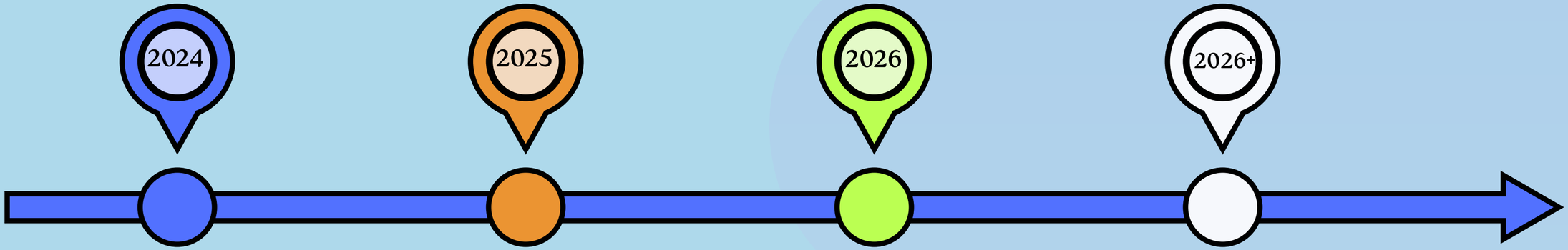
Timeline

Foundation of ARTUS as an official university group and registered German association at the University of Stuttgart.

Concept development and complete in-house design of a proprietary, modular autonomous robotic platform.

Successful participation in the Autonomous Snowplow Competition, achieving 4th place and receiving the Sportsmanship Award.

Continuous optimization of hardware and software, expansion toward additional international robotics competitions, including ELROB (Switzerland), and preparation for a renewed participation at the ASC in 2027.



Thank You

Thank you for your ongoing support and contributions to our success.

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More information about the robot and the project:
artus-ev.de/lynx/

ARTUS e.V. is recognized as a non-profit organization.
District Court Stuttgart | Registration number: 726897