

GENSURV ROBOTICS

Mobile Robots Expert
For Industry and Logistics

www.gensurv.com



Introduction

GenSurv Robotics

Gen Surv Robotics , the pioneer of automated solutions in Thailand. With a team of experts in marine and land robotics engineering, Gen Surv researches, designs and develops automated solutions for automated hydrographic survey services and logistics . Our mission is to provide a faster, better, less labour intensive, efficient, environmental friendlier automated solutions.



Our Expertise

Mobile Robots Expert
Customise mobile robots
for your applications.



System Integration for automation and robotics. We provide the expertise you need to get the job done. From identifying the necessary equipments to technical support, installation, continued service and training.

Mobile Robots and Unmanned Solutions researched and developed by our inhouse robotic experts :

- * Autonomous Forklifts for warehouses and logistics
- * Unmanned Boat for autonomous survey
- * ROV : Remotely Operated Vehicle for underwater survey.
- * Container AGV: for unmanned large fleet transfer
- * ATV: Autonomous All Terrain Vehicle

Contract Research in robotics and unmanned solution.

Hydrographic and unmanned survey equipments

We provide you the top of the line, innovative hydrographic and survey equipments on the market today. We also provide you with a full-line of integrated systems that will take you from the pre-planning stages to the successful completion of your project.

R&D Milestones

2012-2016

Autonomous boat
Underwater Robot (ROV)
Autonomous Forklift



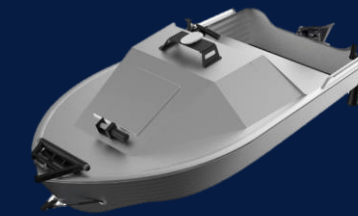
2017-2018

Autonomous Forklifts



2018

- Autonomous Pallet Stacker
- Large Autonomous Boat



2019-2020

DD Navigation
DD Fleet
Management
Auto Shuttle



2021-2022

Autonomous Tow Truck
Special Customized Mobile Robots
for agriculture



2023-2024

Autonomous bus



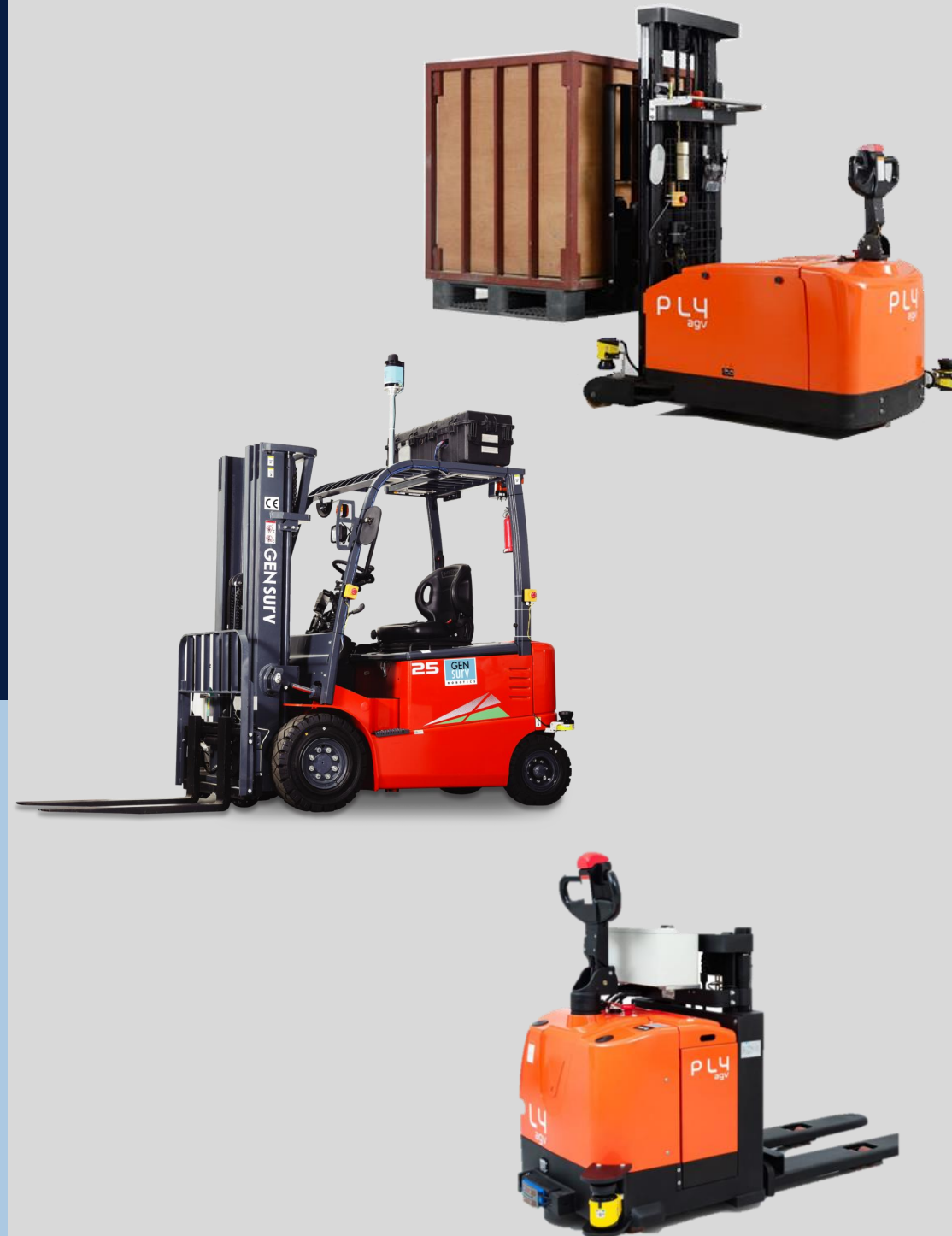
Laser guided Autonomous Vehicles for Indoor&Outdoor Fleet Management Software



AMR: Auto Mobile Robots



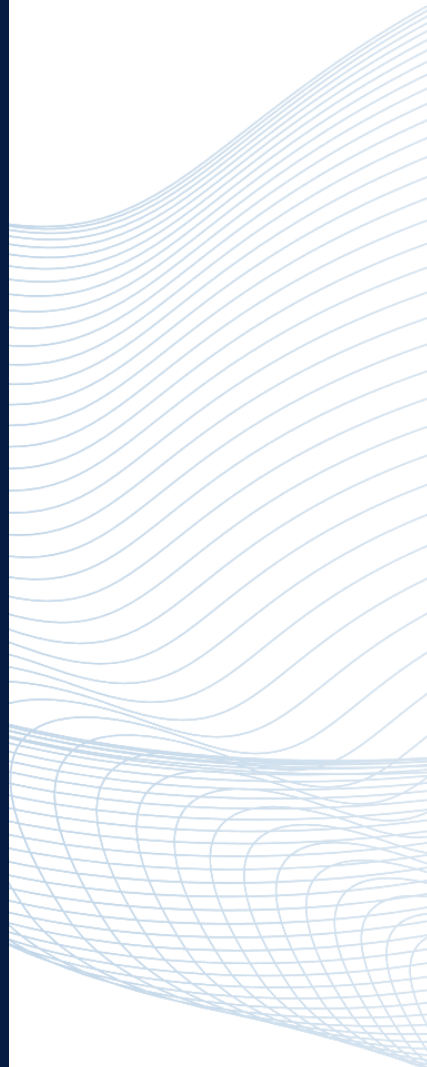
Autonomous Tow Trucks



Autonomous Forklifts



Autonomous Shuttle





Research and Development Fundings & Grants by Thai Government

Presentations are communication tools that can be used as lectures, speeches, reports, and more. It all depends on the purpose of your presentation.

2017–2018 :

The Thailand Research Fund (TRF)

“Autonomous Forklift for goods transport in warehouse”

2017–2018 :

Digital Transformation Fund from DEPA (Digital Economy Promotion Agency)

“Autonomous Unmanned Surface Vehicle for Marine environment digitization”

2019 :

Industrial Prototype Fund from Thai-German Institute and Ministry of Industry

2019–2020 :

National Innovation Agency (NIA)

“Automated Guided Vehicle System for Smart Warehouse Management”
Fleet Management Software & AGV Navigation Laser SLAM



How to make a mobile Robot?

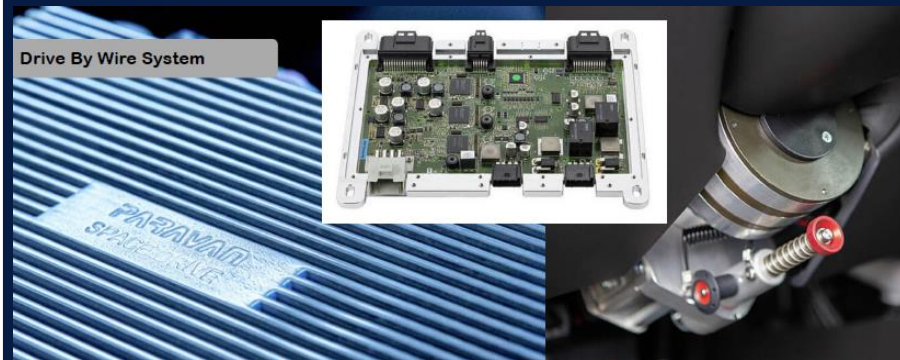
AGV, AMR, Mobile Robots

Network connectivity

Fleet management,
UX/UI



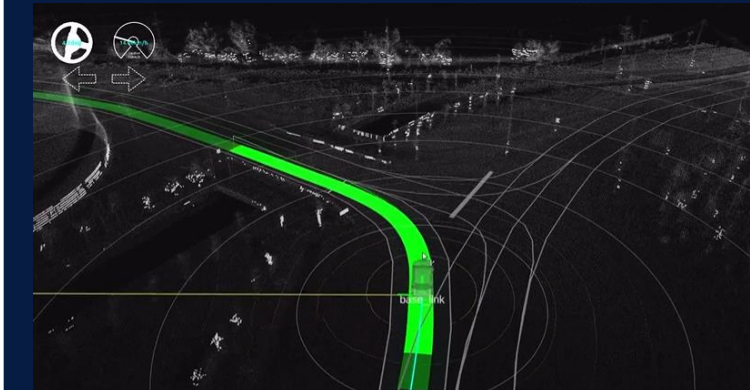
Vehicle



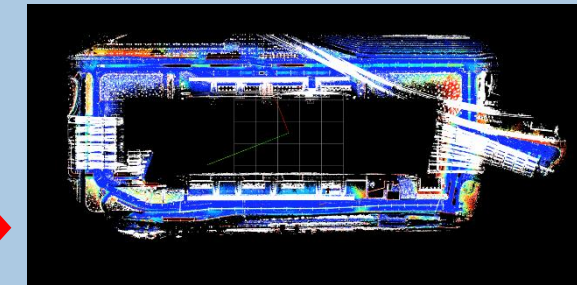
Drive by Wire
(Brake, Steering
, Throttle)
(Robot)



Sensors
GPS



**Localization &
Navigation**
software



MAPPING
INSTALLATION

+Combines/Additional Functions

- Gensurv**
- Customer**

Fleet Management

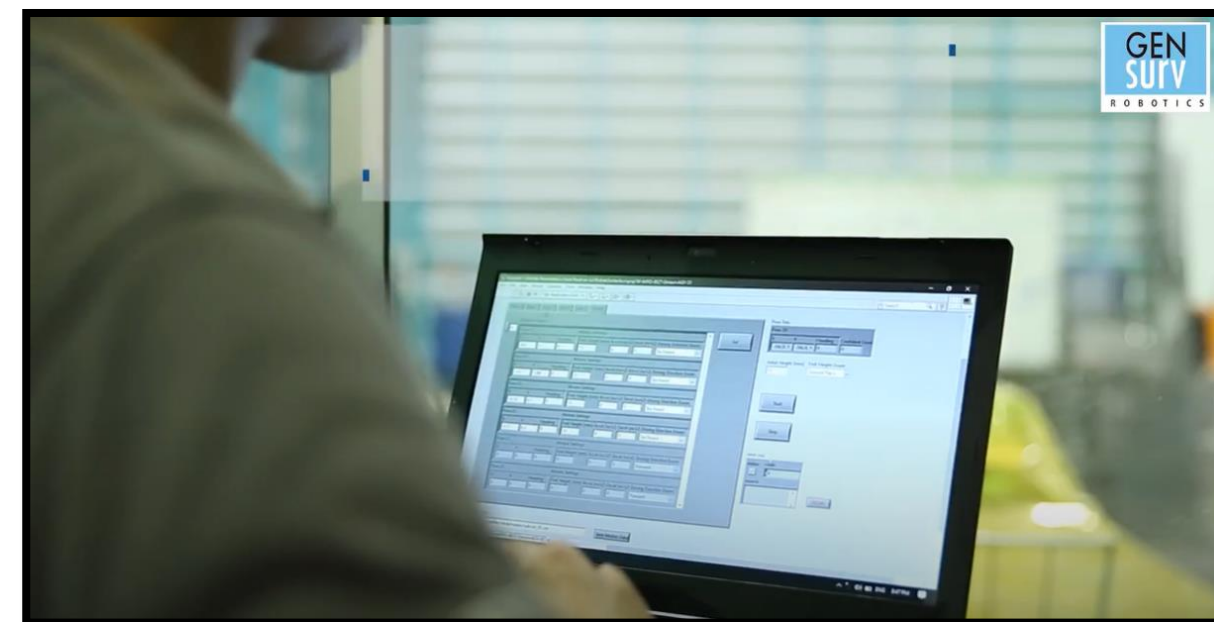
Robot Status Monitoring: Battery, Robot health.

Parts, maintenance schedule

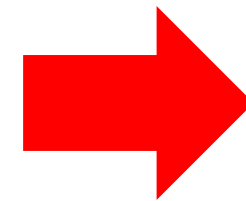
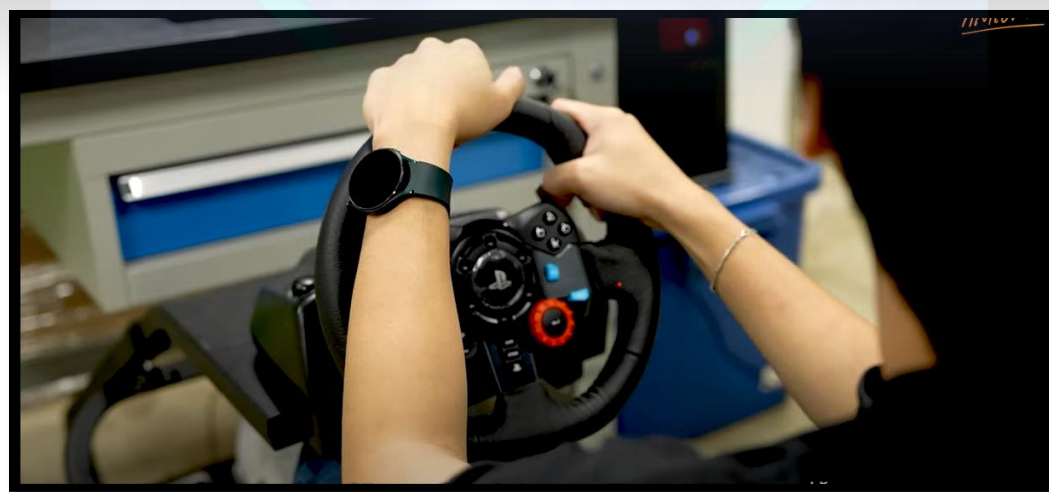
Mission Status Monitoring: job received, complete with time stamp.

Task Management between vehicles, Task Optimization. Queue Management

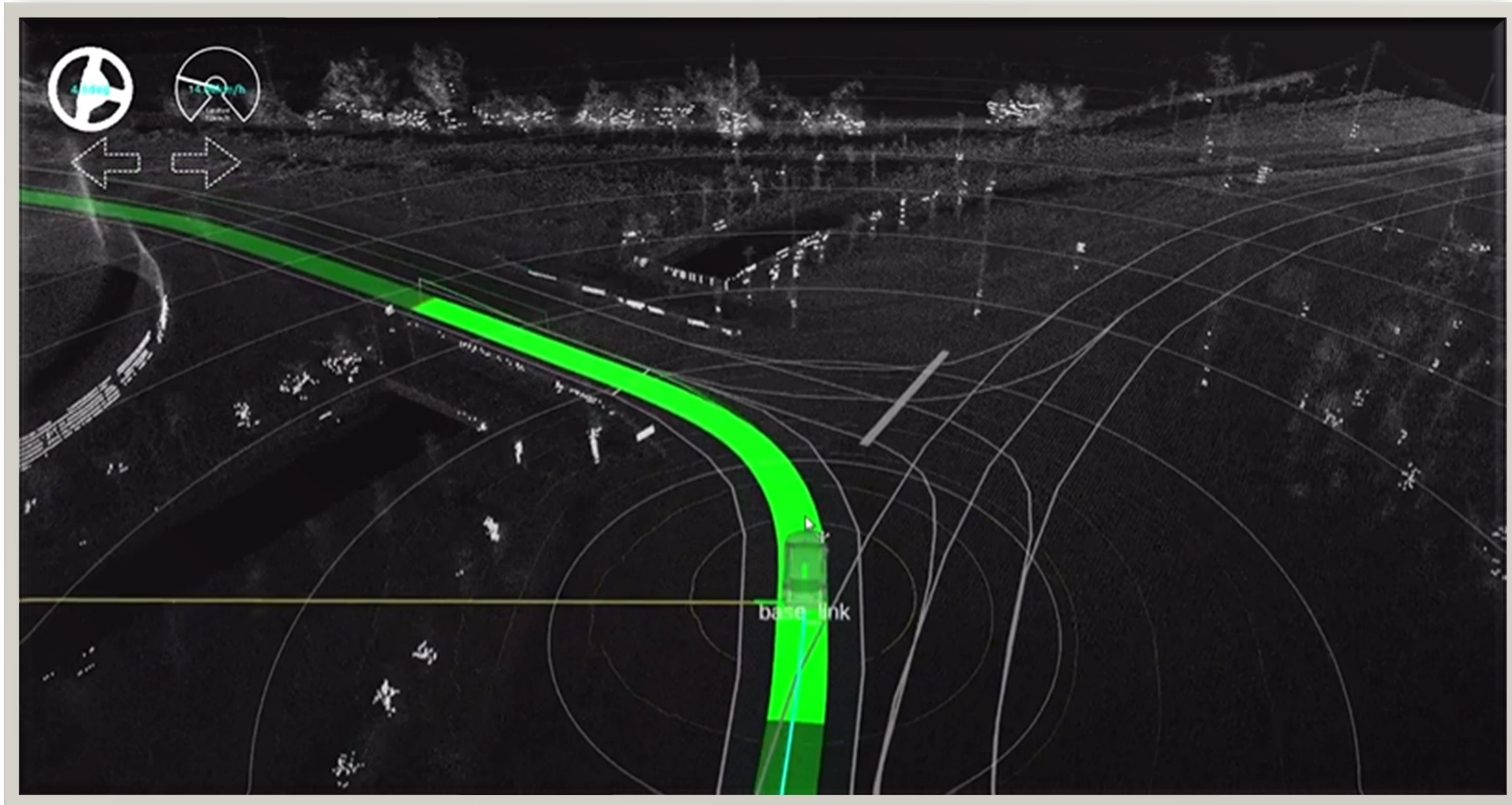
Intelligent Traffic Management for multiple robots. No collision, no gridlock.



Teleoperation with 5G



HD Mapping Service



Our Advantages

Technology

- Mechanical design and fabrication for robots.
- Retrofit commercial vehicles into Robots.
- Control algorithm for robotic system.
- Navigation technology. By Gensurv or other partners.
- Electronics, computing, and software engineering for mobile robots.
- Sensor integration for robotic system:
 - Including LiDAR (light detecting and ranging), Inertia measurement unit (IMU), Attitude and heading reference system (AHRS), Doppler Velocity Log (DVL), Global Navigation satellite system (GNSS) and various sonars such as side scan sonar, echosounder, multibeam sonar, sub bottom profiler.

Products & Applications

- *Affordable Mobile Robots.
- *AGV autonomous forklifts/AGV tow truck for smart factory & smart warehouse.
- *AGV Delivery & Service Robots in hospitals, buildings, factories, hotels.
- *Outdoor Autonomous Vehicles.
- *Disinfection Robot.

Execution

Research & Design, manufacture & system integrate
Mobile Robots for Industry, surveys and Hospitality.

Certificate, Awards & Associations

- Certified Qualified Robotics and Automation System Integrator by CORE (Center of Robotics Excellence) Ministry of Science and Thai German Institute
- Best Robotic Prototype Robotics & Automation Innovator Award 2019 CORE (Center of Robotics Excellence) Ministry of Industry, Thai German Institute.
- T-Goodtech award 2019 , Department of Industry Promotion Ministry of Industry



We look for:

Customers/Business Partners/Strategic Alliances/Investor who need intelligent solutions in:

- *Intralogistics solutions**
- *Mobile robotics solutions**
- *Autonomous vehicles**
- *Smart city solutions**
- *5G and autonomous vehicle products for use cases, sandboxes.**
- *HD Mapping solution**

Business partners for market expansion.
Collaborations to develop new products.
Collaborations to reach new customers.



Contact Us

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