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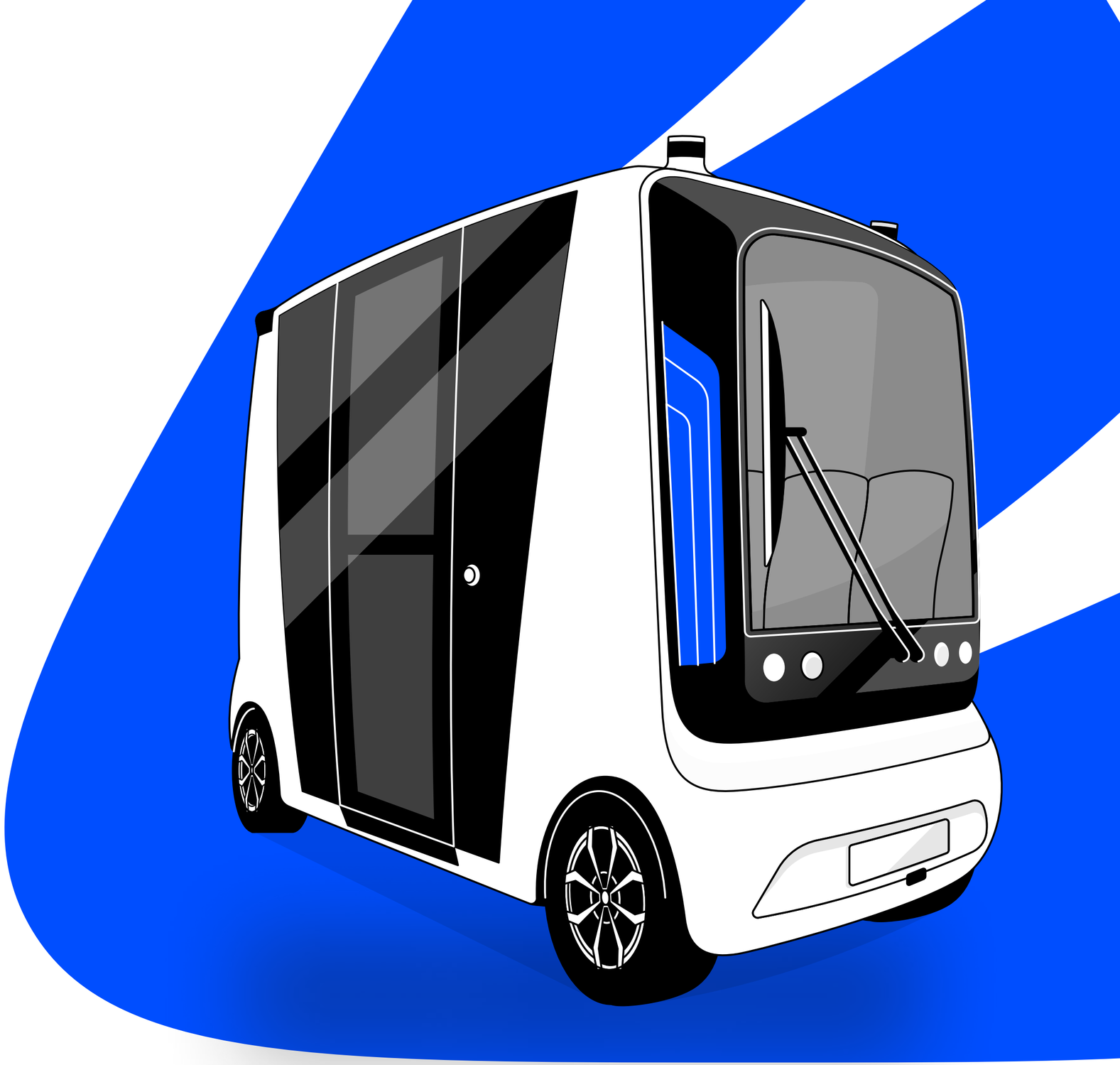

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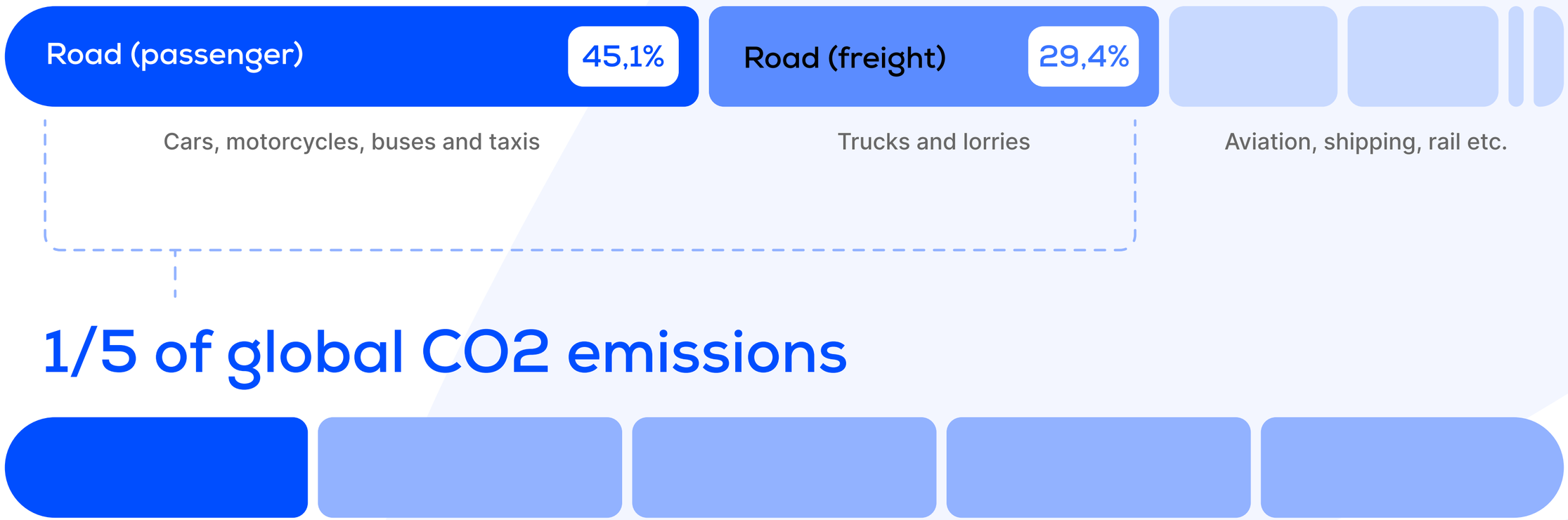
8 000 000 000 tonnes of CO2



OurWorldInData.org

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Building the world's most flexible autonomous shuttles to solve last-mile transportation for early adopters of innovation.

Lightweight & Compact

The shuttle has the size and the mass range of golf cart which makes it suitable for pedestrian roads as well.

Flexible & Affordable

In-house production gives us the flexibility to develop the shuttle in accordance to the specific needs while keeping down the costs.

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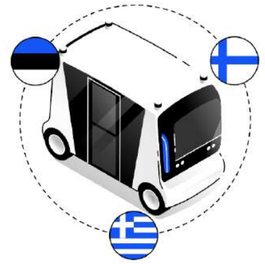
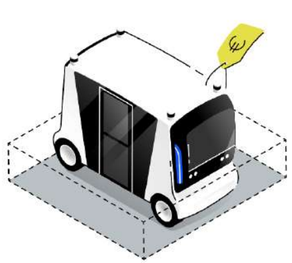


Phase 1
Development

- 2018: Development start
- 2019: Closed area deployments
- 2019: First car sold
- 2020: First international, mixed traffic and paying projects
- 2020: Hydrogen-fueled shuttle development start
- 2020: Supercapacitor shuttle development start

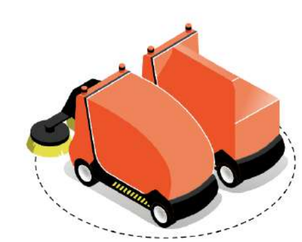


Phase 2
Proof of Concept

- 2021: Development of the 2nd generation vehicle
- 2021: 10 road legal vehicles for deployment in international projects
- 2021: Teleoperation capability testing and development
- 2022: Full teleoperation capability
- 2022: Extensive in-house test bed capabilities

Phase 3
Expansion

- 2023: Modular and scalable platform
- 2023: Capability of mass production
- 2023: Recurring revenue from long-term deployments



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Iseauto specifications

The electric autonomous shuttle for last-mile transit that is robust enough to endure different environments, flexible to be suited for multiple applications without any changes to the existing infrastructure and smart enough to seamlessly change the habits of transit. The shuttle can be used both as an on-demand service or with pre-defined bus stops.

Operating time per charge	8 hours
Cruising speed	up to 25 km/h
Passengers	8 seated
Length	3500 mm (147.79”)
Width	1500 mm (59.06”)
Height	2400 mm (94.48”)
Curb weight	1250 kg (2,755 lbs)
Wheelchair accessibility	yes, electric ramp
Air conditioning	yes
Teleoperation capability	yes

In-house manufacturing

LiDARs, cameras, GPS

Fleet teleoperation

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The most capable solution regardless of the environment

The shuttle is designed to be lightweight and compact to adapt to different road conditions and use cases.

Tested in different weather conditions and on various roads to be able to offer solutions in a wide scope of environments.

The shuttle can put up with blistering sun, snowy winters and rainy autumns and feels confident both in busy urban streets and distant rural environments.

...to gravel roads....

WRC Rally Estonia, 2020

From rural grounds...

Estonian Open Air Museum, 2020

...to snowy winters

Tallinn Zoo, 2019-2020

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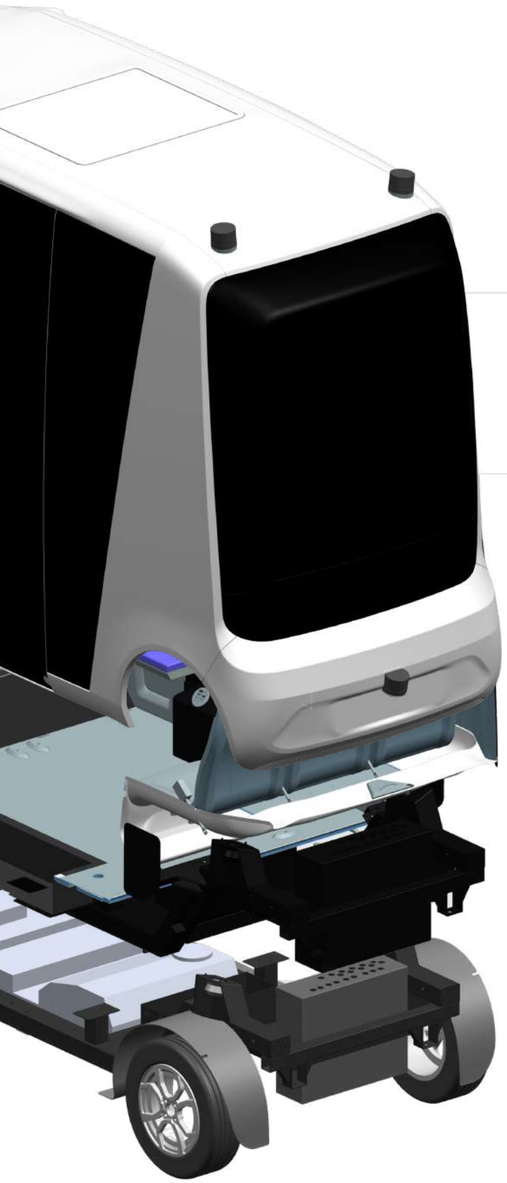
Full Scope Capability



Application analysis
risk analysis and safety assessment of the application and environment

Autonomous shuttle bus
in-house production that enables us to stay flexible and adapt to different customer needs

Route mapping and set-up
includes creating a high-resolution 3D map of the route and on-site efforts for setting up the vehicle or fleet

Personnel training
trained safety operator on board with technical know-how or in a control room where the fleet is teleoperated from the distance

Operating en route
on-demand shuttle service or a closed-loop operation with pre-defined bus stops according to needs

Support, maintenance
qualified off-site remote support during the project with maintenance visits on-site whenever needed

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Operating portfolio

TalTech University Campus

Tallinn Zoo

Ülemiste City Business District

Lamia, Greece

Tampere, Finland

Kakumäe beach

Rakvere City

WRC Rally Estonia

Tallinn Open Air Museum

+8 locations

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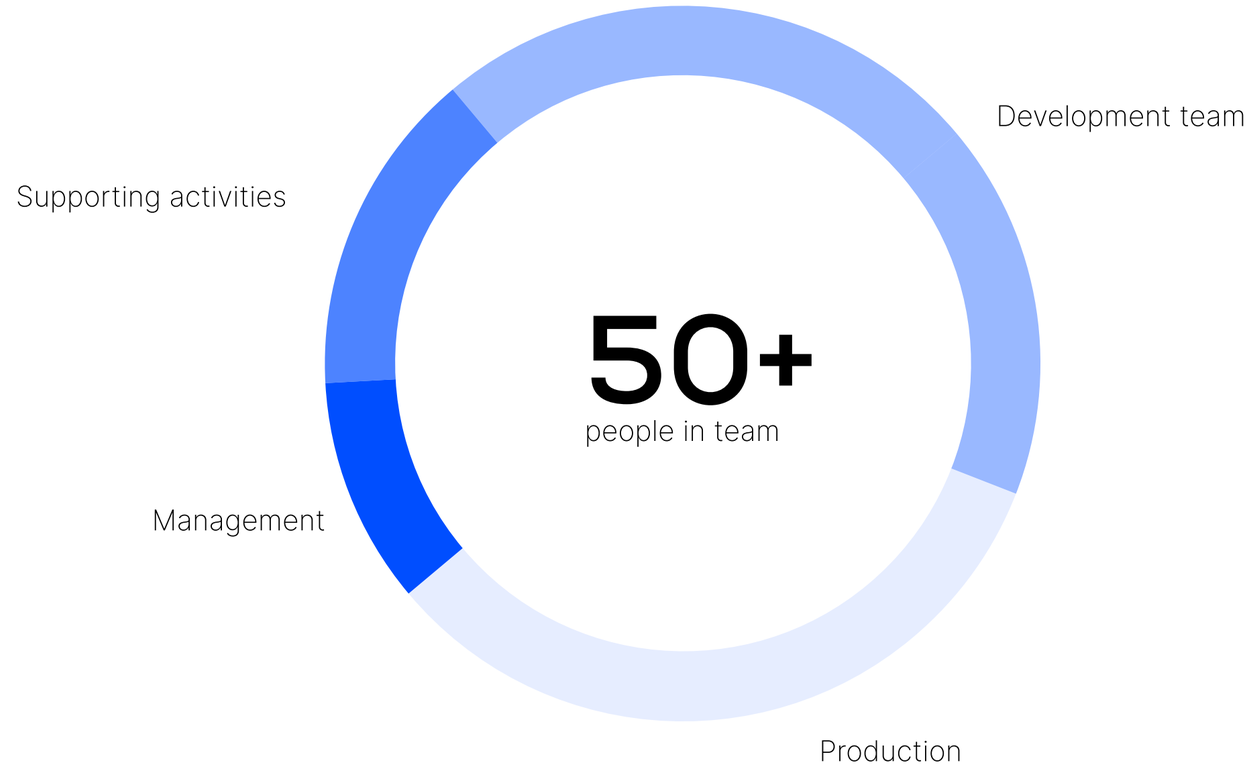
Founded by a team of established experience in the automotive industry and background in custom vehicle development and manufacturing.



Management Team

Väino Kaldoja Founder, angel investor

- Former CEO of SilberAuto
  - a company with 25+ years of experience with the automotive industry
- Currently actively taking part in the product and service design process

Johannes Mossov CEO, Co-Founder

- Experience in custom vehicle manufacturing
- Extensive know-how from various manufacturing teams

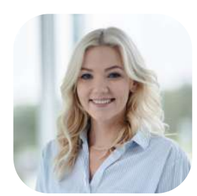
Mari-Ly Klaats COO, Co-Founder

- Wide experience with different EU and funding projects
- Strong background in engineering and finance

Taavi Rõivas Supervisory Board Member

- Former Prime Minister of Estonia
- Experience with various start-up teams

Team Leaders



Paula Johanna Adamson
Head of Sales Team

- background in B2B sales and automation

Henri Sink
Head of Electronics Team

- marine automation and HMI design
- IOT system development

Andreas Rebane
Head of Mechanics Team

- background in product development and mechanical engineering

Ott Männik
Head of Software Team

- automotive engineering Bachelor's degree from Coventry University

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Hydrogen fuel cells

Together with the University of Tartu, we are developing a shuttle fueled by hydrogen to be used as an alternative to the regular electric shuttles.

Supercapacitors

A development project with Skeleton Technologies is in the works in order to use supercapacitors in the shuttle. This makes it possible to charge the shuttles within a few seconds, paving the way for 24/7 operations.

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Modular platform

We aim towards creating a modular platform for the shuttle in order to be able to easily customise the design for various customer needs. This way we could provide autonomous services in different applications, such as waste transportation, parcel delivery, cargo transportation, street cleaning etc.

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Thank you!

www.auve.tech