

Introduction

Based in Copenhagen, Denmark.

Founded in October 2016 by Semler Group, Denmark's largest automotive distributor.



















Semler Group is a **104 year old** family-owned company that imports, sells and services VAG vehicles

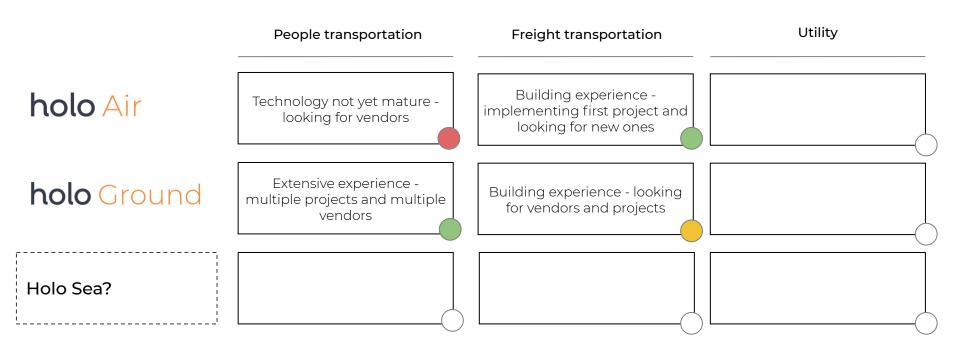
Semler Group is a diversified company operating in 8 countries:

Denmark, Sweden, Norway, Iceland, Finland, Lithuania, Estonia, Latvia

Holo is a 100% owned company in the group, but **operates independently**

Holo was founded as a **response to the emergence of autonomous vehicles**.

Holo's business segments - status



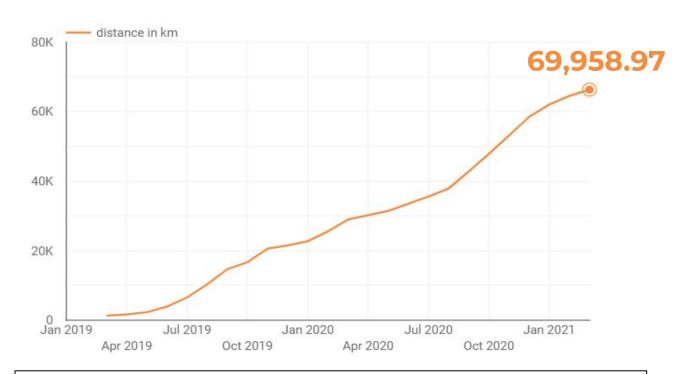
Holo's has broad knowledge across the value chain of autonomous mobility projects

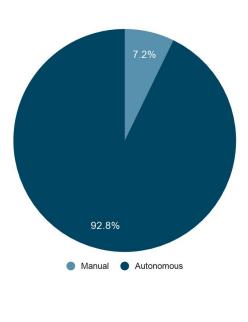
THOOHITY P	orojects					
Business Development		Planning		Operations		
	Sourcing new projects		Vehicle approval			Field operations
\$	Funding projects		Project / route approval			Supervision / Control Center
Vehicle	vendor mgmt.		Training		36	Maintenance
	Technical vendor evaluation	WAA		Dep	loyment	
₹ ₹	Contracts & SLAs		Risk management	<u> </u>		Compliance
[<i>\rightard</i>]			Project m	anagement		

Holo has extensive and unique operational experience from different projects across the Nordics and the Baltics

Being planned	In operation	Completed
Oslo - Ski	■■ Aalborg - Aalborg East	Gothenburg - Chalmers University Passenger vehicles
Passenger vehicles	Passenger vehicles	Gothenburg - Lindholmen phase 1 Passenger vehicles
Slagelse Hospital Passenger vehicles		Køge - SUH Køge Hospital (indoors) Passenger vehicles
		Helsinki - Aurinkolahti Passenger vehicles
Healthdrone		Tallinn - Sohjoa Baltic Passenger vehicles
Odense University Hospital Air freight		Oslo - Akershusstranda Passenger vehicles
Ærø Air freight		Oslo - Kongens Gate Passenger vehicles
Svendborg Air freight		Oslo - Ormøya Passenger vehicles
		Copenhagen - Nordhavn Passenger vehicles

Holo's operational experience is constantly increasing - adding more kilometers and passengers every day

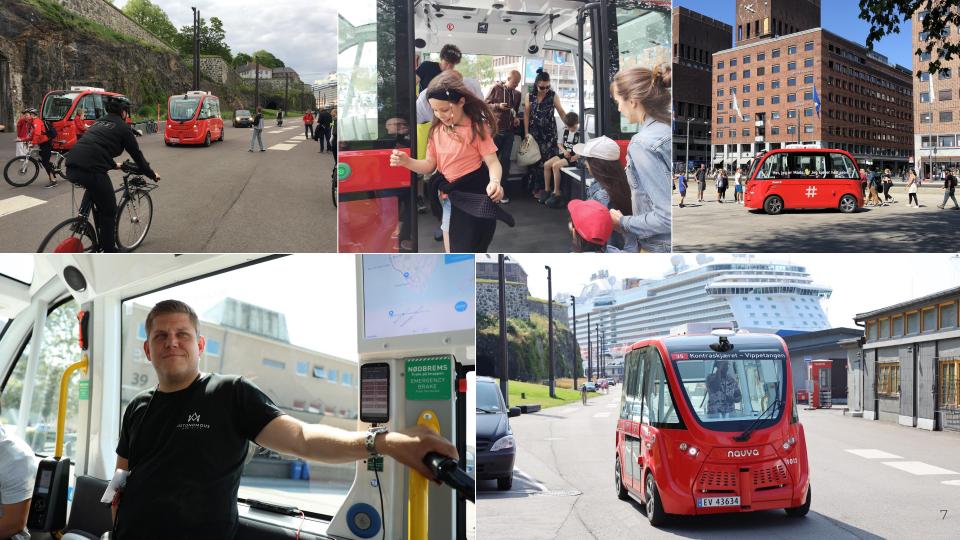




* Updated March 2nd 2021

Distance in total: +69.000 kilometers* (since Holo started receiving data)

Passengers in total: 54.909











Healthdrone, Funen



The use case

Odense University Hospital have two satellite hospitals, one in Svendborg and one on Ærø. They saw a need for a fast transportation connection between the hospitals where blood samples and medicine could be transported.



The route

The route connect the three hospitals on Funen. All the hospitals are located in urban environment and requires extra fail safe.

The route from OUH-SVE-ÆRØ is about 65 km



Holo's operational experience has informed Toyota Motor Europe's decision to choose Holo as operator for a new project in Norway





Members of the project

- Holo responsible for project approvals and operating the vehicle
- <u>Toyota Motor Europe</u> supplying vehicles
- Sensible 4 autonomous software and modification of vehicle to include sensor stack
- Ruter public transport authority responsible for communication to end-customers

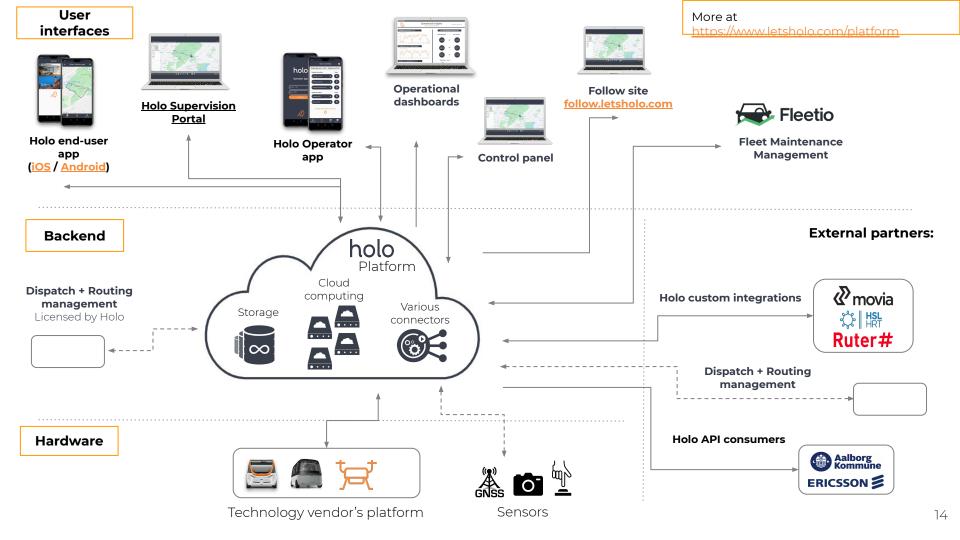
Basic facts about the project

- Location: Ski, Norway
- Route type: Mixed traffic
- Project duration: 2 years
- Number of vehicles: 2

Special characteristics

- Collaboration with OEM
- Type-approved vehicles with AD kits mounted
- Preparation for vehicles with different form factors and improved autonomous performance
- All-weather operations





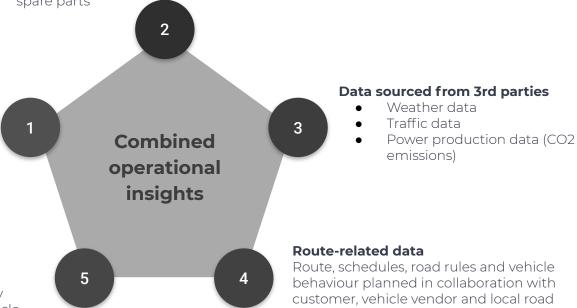
As the operator Holo has a valuable combination of operational data to optimize performance

Manually collected data

- Data registered manually by the safety steward in the vehicle, covering safety situations and customer interactions not registered elsewhere.
- Vehicle maintenance data and information about spare parts

Vehicle telemetry data

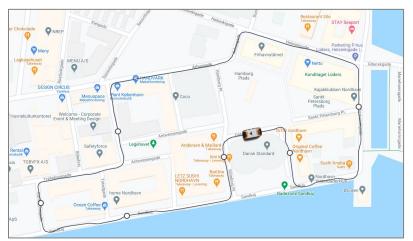
From vehicle vendor or using Holo's own sensors on the vehicle

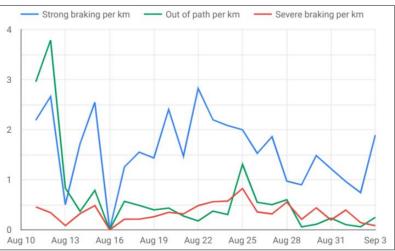


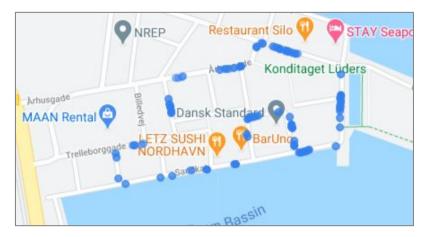
Safety & compliance-related targets

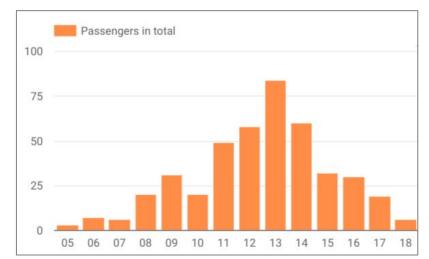
Safety targets from authorities, matched with vehicle telemetry data and manually reported data from safety steward in vehicle. authorities

Digging into the details to improve operations

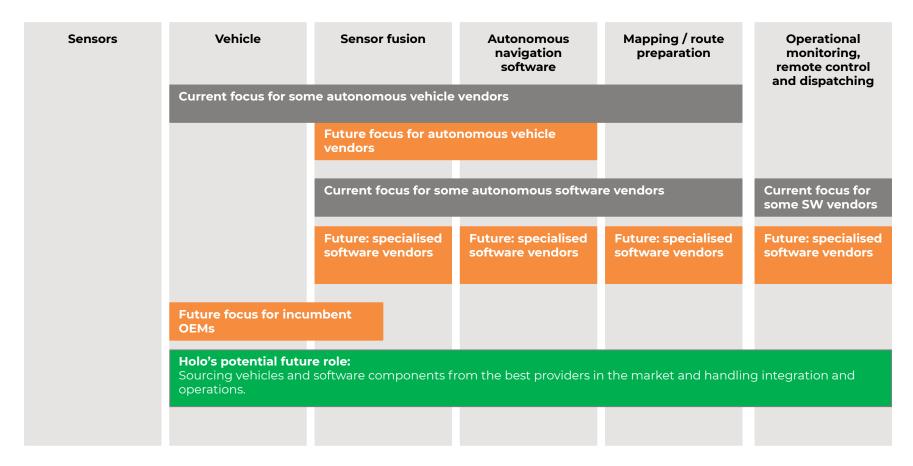








As the market develops Holo's future role could be as an integrator of components to deliver autonomous operations



A partnership or collaboration with Holo will provide strategic benefits across the value chain of operating autonomous vehicles **Business Development Planning Operations** Vehicle approval User experience New projects and customers Contact to Holo's network of potential Approval pre-review of autonomous platforms - does Access to data collected manually on routes and the customers with a confirmed interest in Holo think a vehicle can be approved in Scandinavia? experience of safety drivers autonomy Control center and remote control Access to experience monitoring and controlling vehicles remotely

Business case validation

Verification of pricing levels and commercial options for various autonomous projects

Vehicle vendor mgmt.

Vehicle vendor overview

Access to Holo's expert knowledge on maturity of different autonomous vehicle vendors

Project / route application + risk assessment

Approval pre-review of various routes and use-cases does Holo think it can be approved for autonomous operation?

Maintenance

Insight into operational maintenance requirements for autonomous vehicles

Operational data

Insight into operational data requirements

Deployment

Insight into the complexities and challenges of mapping a route and deploying autonomous vehicles.

Safety driver training

Understand what it takes to train safety drivers for autonomous driving in Scandinavia.

Compliance:

How does an autonomous project stay compliant during operations and ensure that commitments made during the application phase are delivered?

Contact

Christian Bering Pedersen CEO

chbe@letsholo.com
+45 21579342

