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Autonomous transport -Mobility and logistics



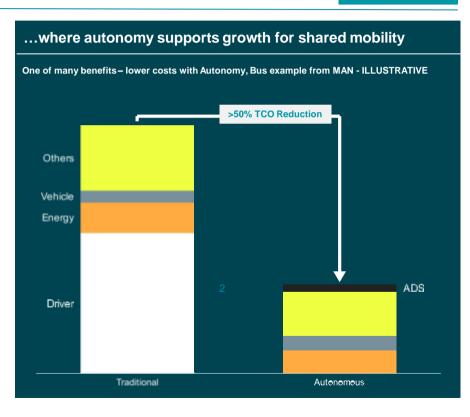


Autonomous Vehicle tech has a tremendous potential to mobility



Market with strong future growth expectations

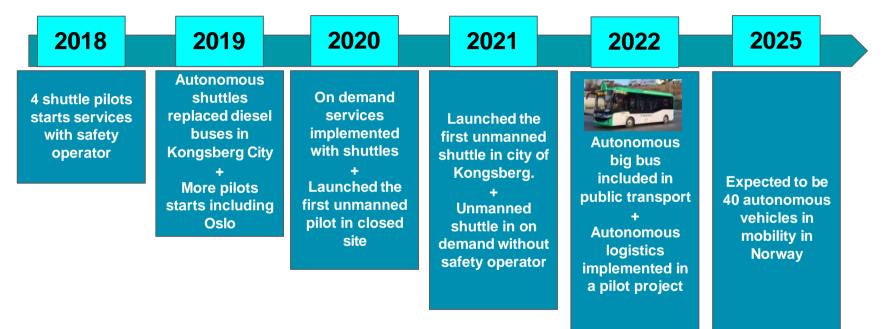




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Timeline - Norway - Experience from many types of autonomous vehicles





xFlow™ platform is extended with functionality - and made ready for international customers and partners



Legislation implemented in 2017 in Norway



Royal Norwegian Embassy delte innlegget til Olav Madland

. . .

Olav Madland CEO

I am proud to have the new Norwegian Law that makes it possible to start trials of Shared autonomous mobility and piloting of the future of transportation signed by the Minister of Transport and Communications Ketil Solvik-Olsen and the Leader of the Transport Committee Helge Orten.



Permitting autonomous vehicles to operate without a safety driver in the vehicle



Applied Autonomy has been supported by the Norwegian Transport Ministry and the Norwegian Parliament from day one.

Applied Autonomy have supported law marker and policy makers with facts and experiences



Expansion to Europe









Software solution for operational central to autonomous vehicles and traffic regulation



Vehicle Speed

Transport Reliability

Degree of



Operator WW

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Stavanger, Norway



Public large bus in the city center – Pilot 2

Key

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facts: 3.4 km route (back and forth)

Starting driving in April 2022 with passengers

Applied Autonomy

delivereststance to the public transport operator with choosing a suitable route

- Safety analysis and approval to operate -
- Safety, security and GDPR responsibility -
- xFlow® services
 - Collection of driving data from the vehicle
 - Monitoring platform of the vehicle
 - Platform to automate the transport



Stavanger Municipality "We would like to express that we only have positive experiences with both Kolumbus and Applied Autonomy"



Involved





- User acceptance = Elderly and children is enthusiastic users - even without safety driver
- Good progress on the automated system of system
- Norwegian companies is easy to work with and have a good support from the government

The Mobility Services Platform



All Weather Autonomous Real logistics operations and Demonstrations

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2.5.5 - AWARD overall project

AIT

KAMAG

TLD/SAS

TERBER

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Development of an ADS for Heavy-Duty Vehicles (HDV)

Able to handle adverse environmental conditions such as heavy rain, snowfall, fog

Targeting compliance with **ISO 26262** and taking into consideration **SOTIF recommendations**

Integrating multiple sensor modalities and an embedded teleoperation system to address 24/7 availability

Optimized fleet management & supervision system for logistics use cases

Integration of the ADS into vehicle platforms







Demonstration in concrete use cases

Industrial autonomous loading & unloading operations





Hub to hub autonomous logistics on public roads

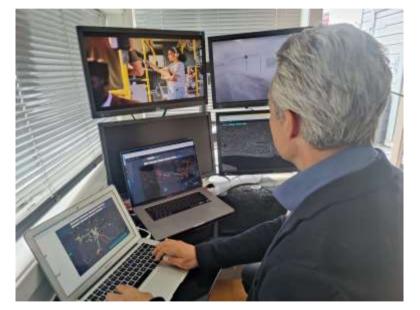
Airport autonomous ground support equipment

Port Trailer autonomous transfer operations









AWARD Impact on Process Efficiency

Fleet Efficiency

Vehicle Efficiency

Efficiency of Handling of Goods



Terminal operator for the seaport and

Industrial HUB

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