

# Autonomous public transport

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Project manager



Kolumbus is more than a PTA...

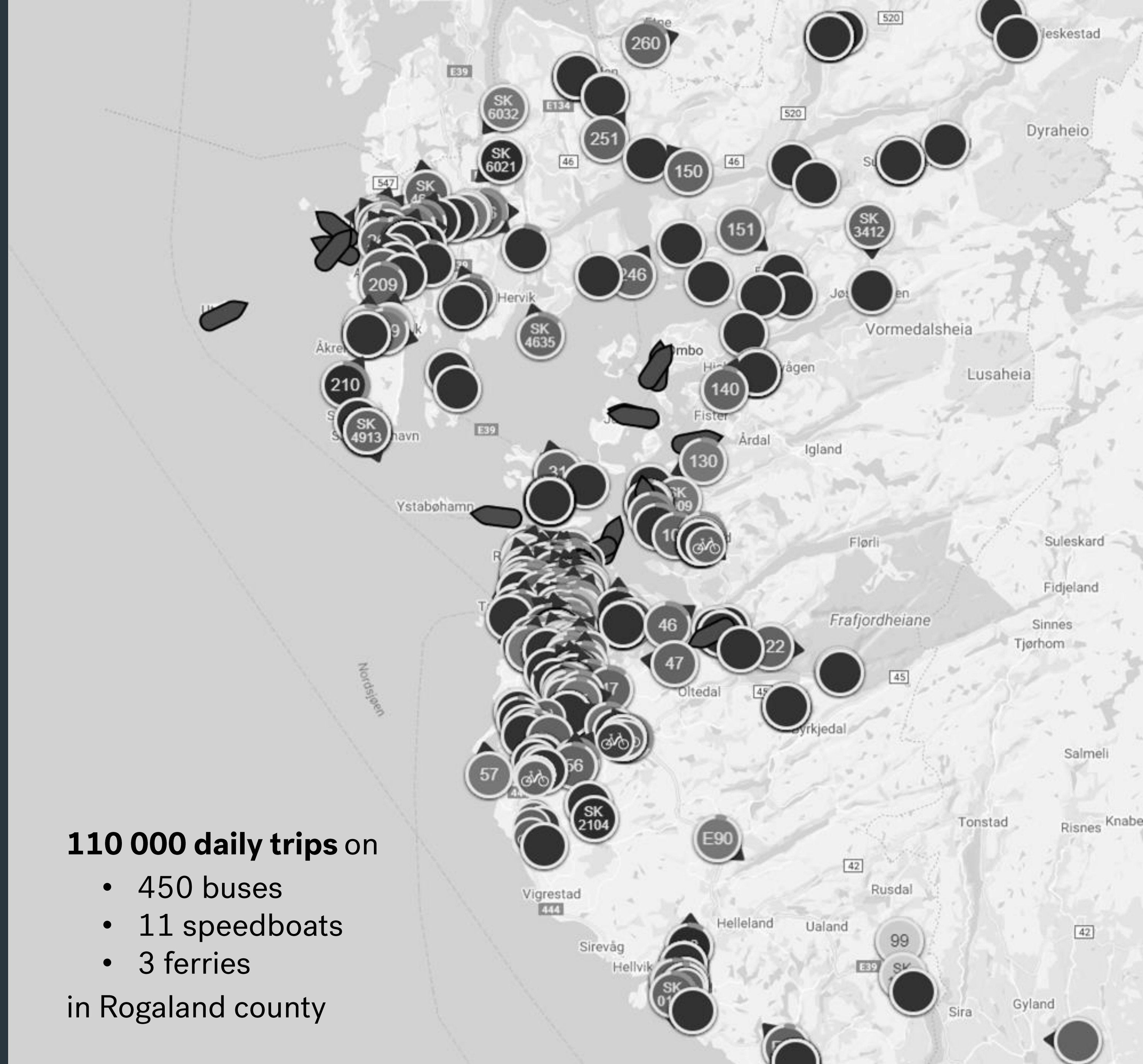
➤ Kolumbus



**110 000 daily trips on**

- 450 buses
- 11 speedboats
- 3 ferries

in Rogaland county

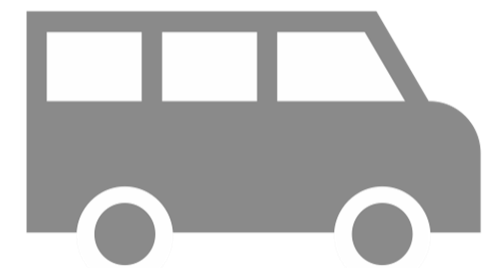


# We are an innovative mobility provider



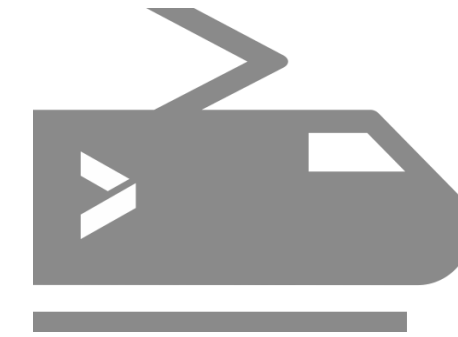
## AV shuttles

First in Norway



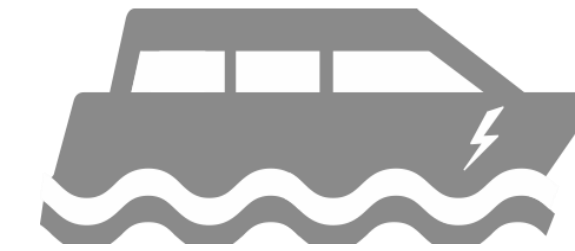
## PickMeUp

First we take Sauda...



## Train + Kolumbus

First in Norway



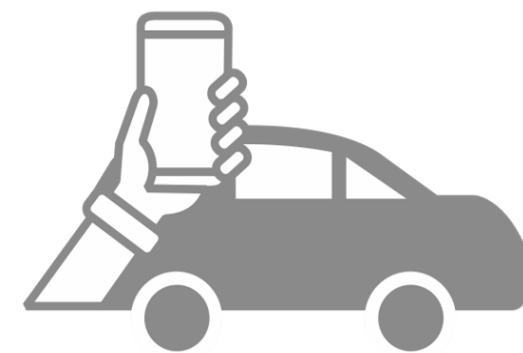
## TrAM

The world's first



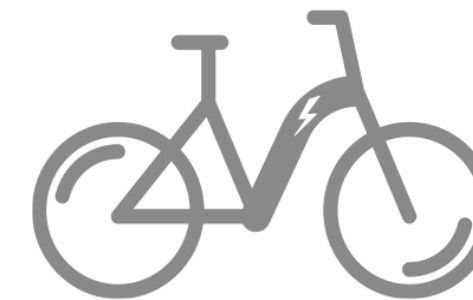
## HomeWorkHome

Unique and award-winning



## Car as a Service (MaaS)

First pilot in progress



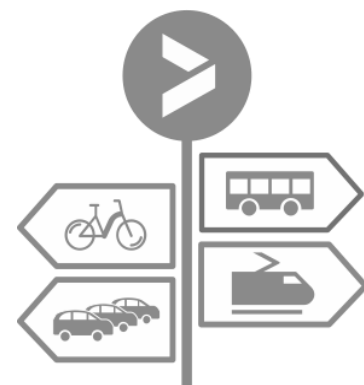
## Electric city bike

Unique in the world



## Leasing electric bikes

First in Norway



## MobilityHubs

MaaS in practice



## Electric scooters

Popular, but...



## App

MaaS, MaaS, MaaS



## Development projects

Opportunities



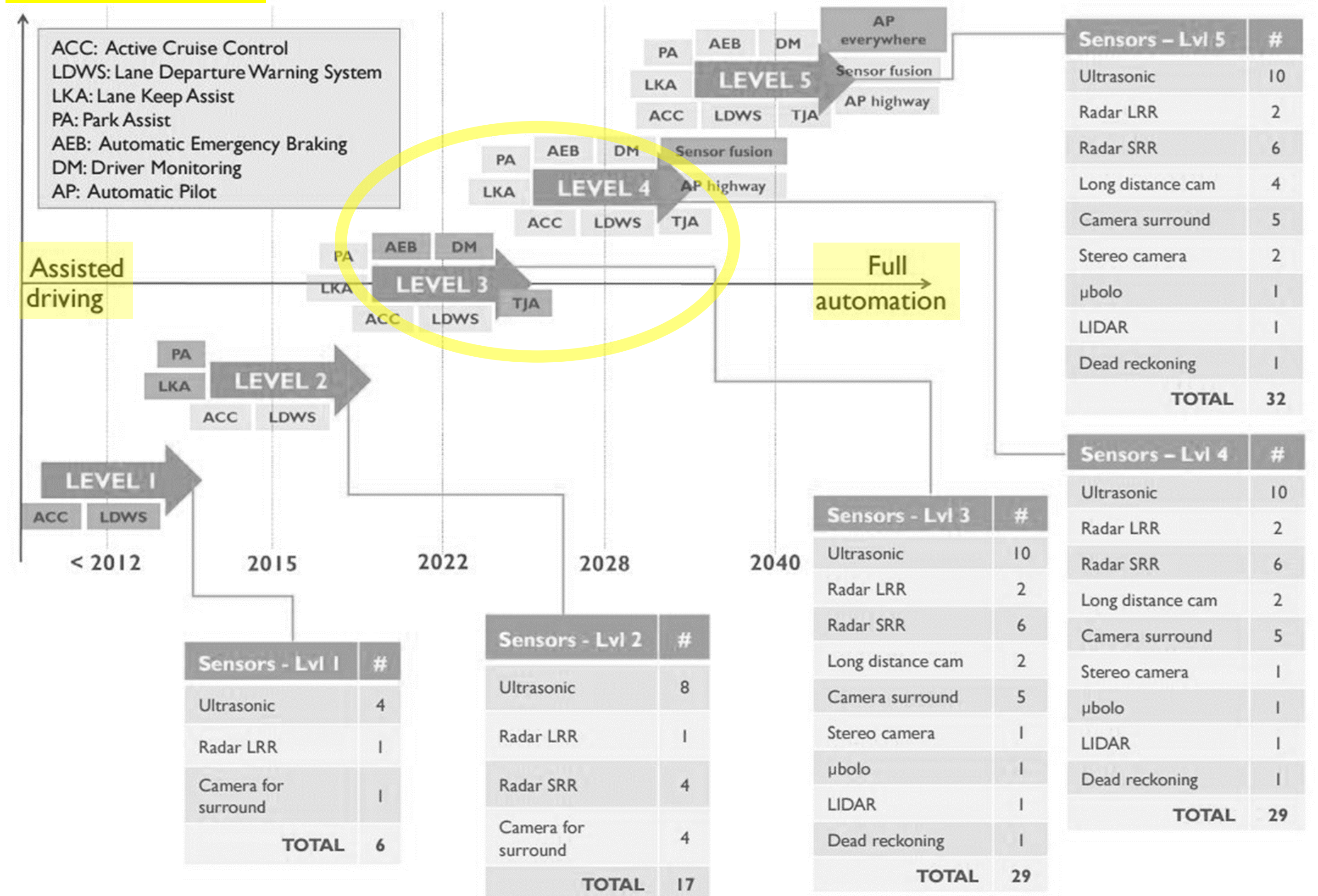
# Development of AVs

Our ambition is *not* to develop technology but to **test new technology solutions** that may contribute to a more sustainable society

**SEAMLESS  
AUTONOMOUS  
EMISSION-FREE**

## Sensor technology roadmap and autonomous functions associated

### Functionalities



(Yole Développement, October 2015)





# 2016 – 2018 Forus pilot (AUTOBUS project)

## Project description:

- EasyMile bus seating 6 persons
- Pre-tested 1800 hours on closed track
- First in Norway on open roads in 2018
- 600 hours on roads with mixed traffic in an industrial area

## Interactions with other road users:

- Low speed (12-15 km/h) on a 40 km/h road caused irritations and overtaking incidents
- No accidents or injuries





# 2019 - 2023 Smarter transport

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## Project description:

- Navya bus seating 11 persons
- In operation for two years (2020-2022)
- Route in a mixed living- and industrial area to/from high-capacity public transport
- The objective is to monitor if this First/Last Mile service may result in more people preferring public transport

## Interactions with other road users:

- Low speed (18 km/h) on a 30 km/h road causes irritations and overtaking incidents
- No accidents or injuries





# Future AV pilots

- **Closed tracks ideal for piloting:**

- 2 km busway (BRT) between the new hospital and a mobility hub
  - Since 2019 in process with major bus producers to initiate a pilot with a bigger autonomous bus
- Europes longest busway (50 km BRT) in the Stavanger-region
  - In process to identify suitable buses with some degree of autonomy

- **Other projects:**

- AV shuttles (PickMeUp)
- EU/national AV projects





Thank you