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Hvordan kan vi sikre at teknologien er mest mulig nyttig for samfunnet?

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Teknologi for et bedre samfunn



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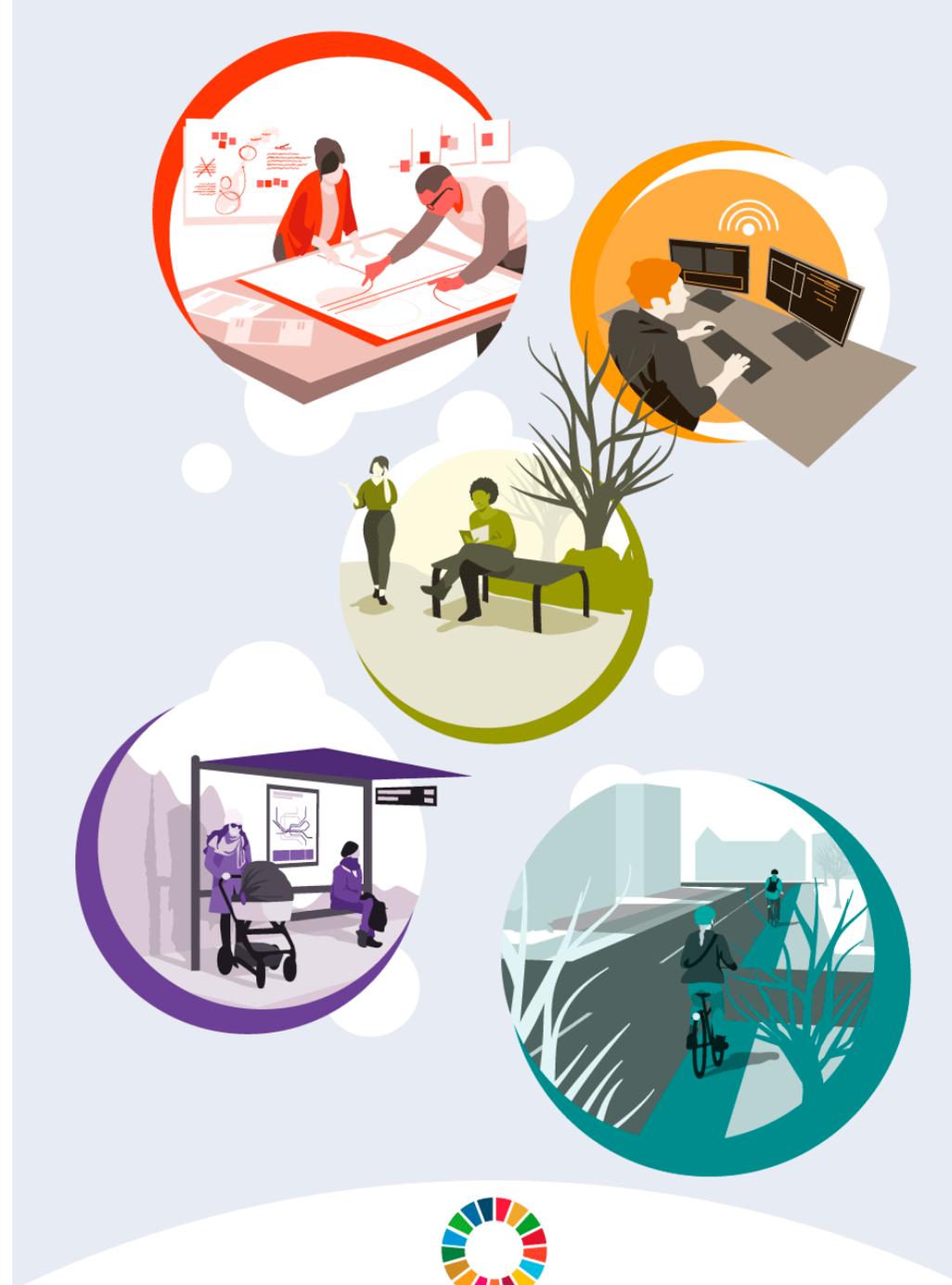
Hvorfor automatisering og digitalisering av transportsektoren?



Mer for pengene

Bidra til oppfyllelse av Norges klima- og miljømål

Enklere reisehverdag og økt konkurransevne for næringslivet



Effektiv bruk av ny teknologi

Nullvisjon for drepte og hardt skadde

Teknologi for et bedre samfunn

Kilde: NTP 2022-2033



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SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) AUTOMATION LEVELS

Full Automation



0

No Automation

Zero autonomy; the driver performs all driving tasks.

1

Driver Assistance

Vehicle is controlled by the driver, but some driving assist features may be included in the vehicle design.

2

Partial Automation

Vehicle has combined automated functions, like acceleration and steering, but the driver must remain engaged with the driving task and monitor the environment at all times.

3

Conditional Automation

Driver is a necessity, but is not required to monitor the environment. The driver must be ready to take control of the vehicle at all times with notice.

4

High Automation

The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.

5

Full Automation

The vehicle is capable of performing all driving functions under all conditions. The driver may have the option to control the vehicle.

MODI project

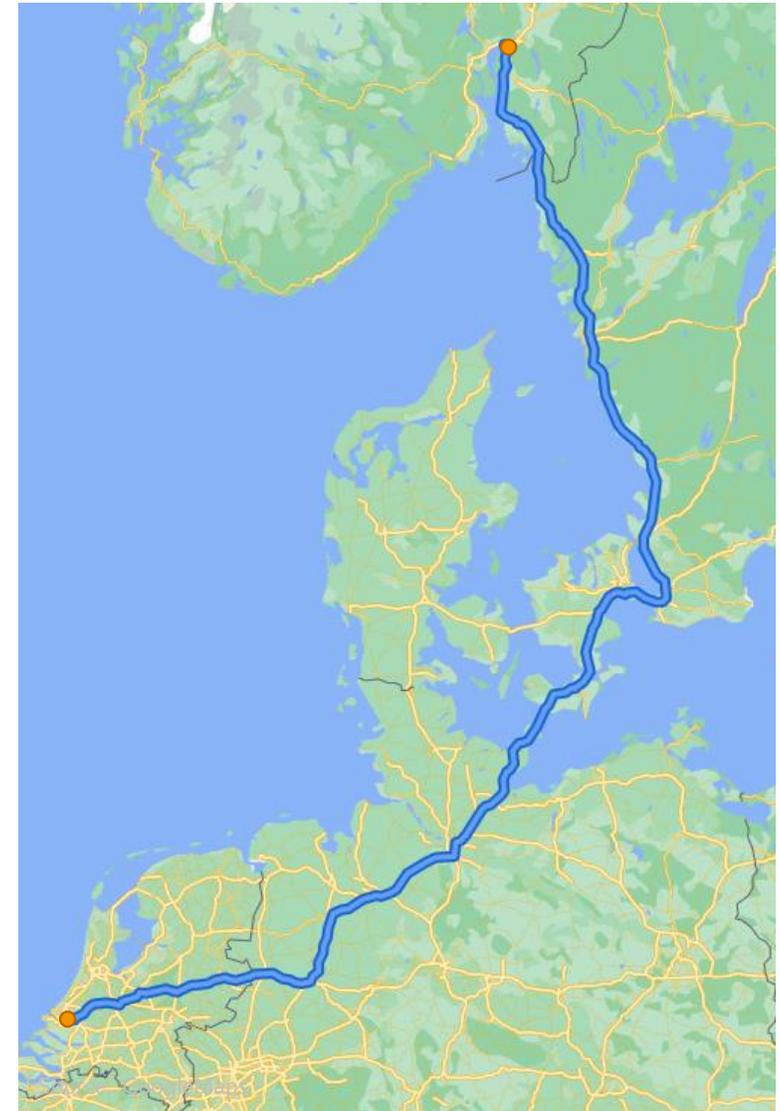
A leap towards SAE L₄ automated driving in Europe – EU call: HORIZON-CL5-2022-D6-01-01

Coordinated by ITS Norway

Vision and story

Logistic corridor from Rotterdam to Oslo (from port to port)

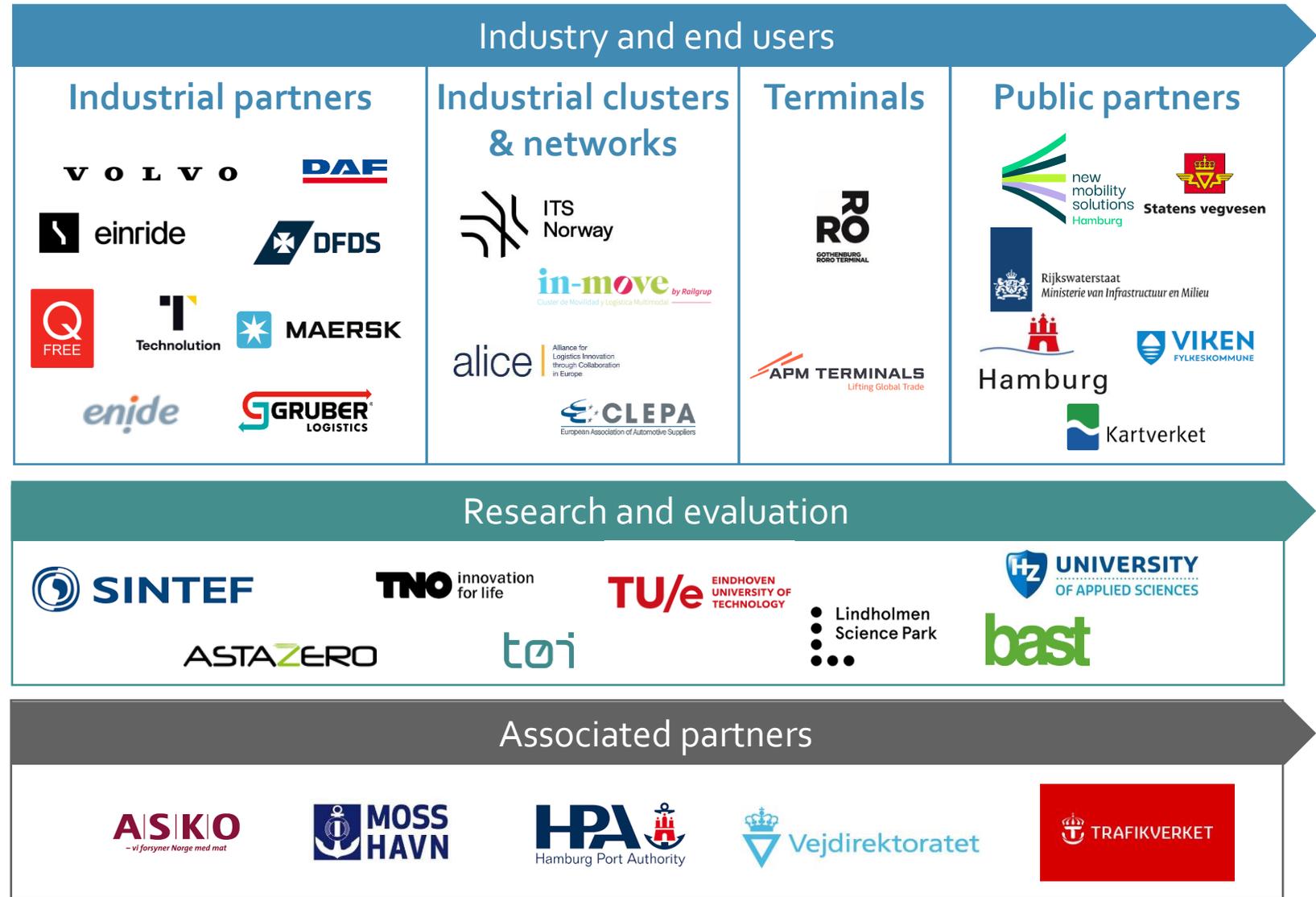
- Identify and largely resolve barriers on this corridor, in confined areas and on public roads
- For SAE L4 CCAM heavy duty transport
- Coordinating the vehicles for increased benefit
- Demonstrations in different use cases



Use cases



Partners





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Hva trenger vi for at teknologien skal bli nyttig for samfunnet?

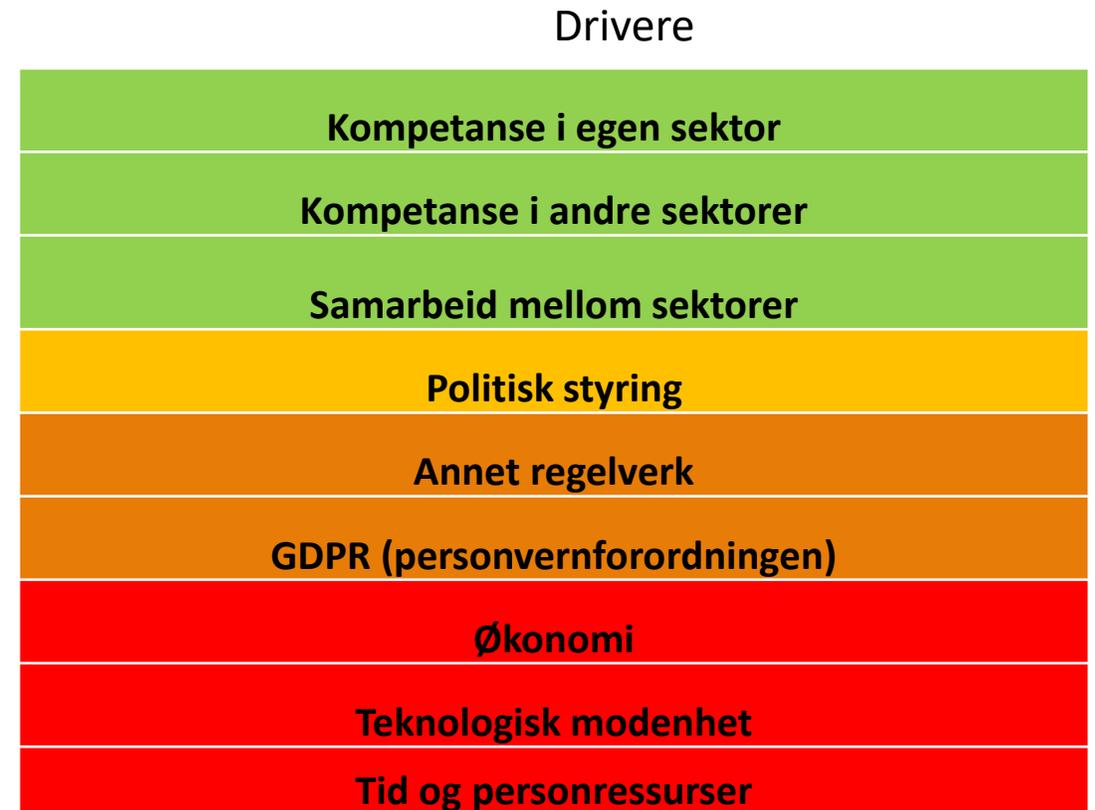
- Teknologisk modenhet – testing - validering
- Teknologien må kunne håndtere veldig mange kontekster





Men like viktig... er den sosio-økonomiske konteksten som teknologien opererer innen!

- Brukeraksept
- Forretningsmodeller og skalering
- Strategi og matchende budsjett
- Regulering, lovverk, standardisering
- Endringer innen forvaltning/byråkrati
- Endringer av infrastruktur og drift/vedlikehold
- ... og mer til!



Barrierer

Hvilke faktorer er drivere eller barrierer for implementering av ny teknologi i transportsystemet? (n=49)

Norwegian use case: Connecting different projects on automation

MODI A LEAP TOWARDS
SAE L4 AUTOMATED
DRIVING FEATURES

ASKO

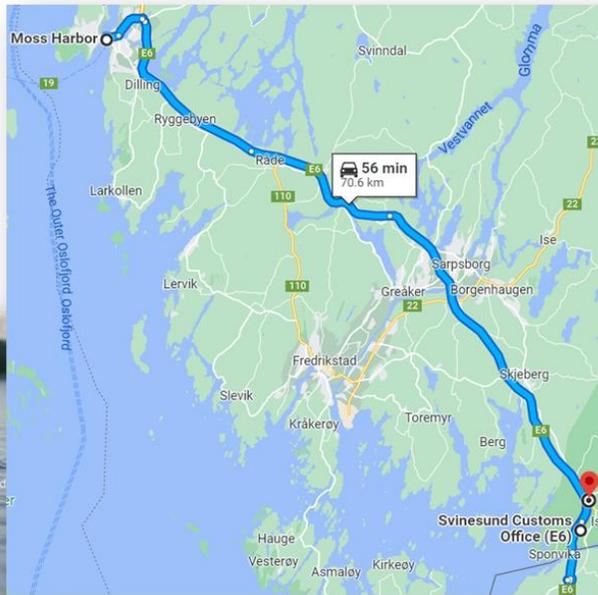
Autonomous
sea drones



In line with the call:
focus on cocreation
between stakeholders



Public roads:
Prioritized L4 roads



Kartverket
Map data,
reference frame,
point cloud

TOLLETATEN
TRAFIKVERKET
Border crossing





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