



Summary of operations in Ski

64 % of workers
commute out
from Ski, the
majority to Oslo

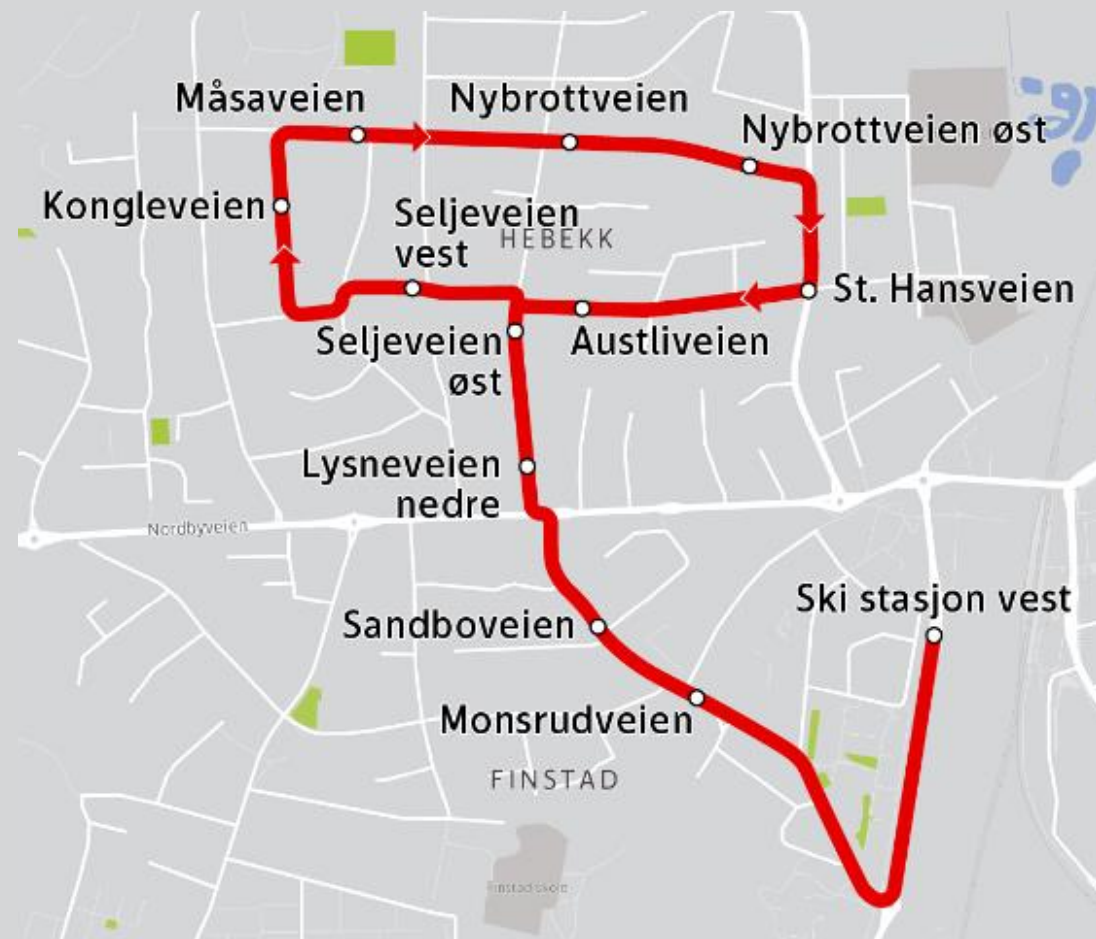


Many travel by
train from **Ski**
station



Most use private
car for **internal**
travels





- 2 Toyota Proace w/ AV technology from Sensible4
- SAE level: 3
- 4-7 passengers
- Time of day of operation: 11:00 - 19:00
- Route length: 3,1 km and 4,7 km
- Maximum vehicle speed: 30 km/h
- Area speed limit: 30/40 km/h



Speed increase

Operation in areas with 40 km/h speed limit

Winter conditions

Successful operation in Nordic winter conditions

On-demand functionality

Simulation of front- and back-end solutions in complete value chain

Unmanned operation

Not accomplished





Main challenges

- Covid restrictions
- Supplier delays
- Frequent downtime

Some numbers...



10 690
AUTO



ROUND TRIPS
5785
OF 3.5 KM



573
PASSENGERS

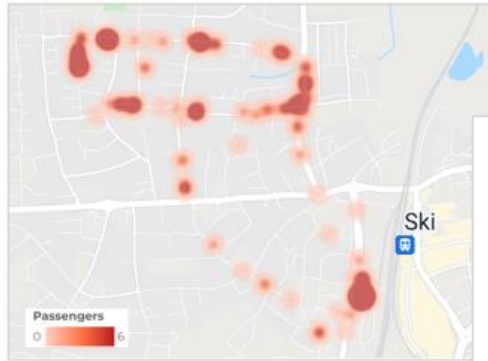


ON AVERAGE
10.1
ROUND TRIPS PR.
PASSENGER



ON AVERAGE
4.5
SWITCHES TO
MANUAL PR ROUND

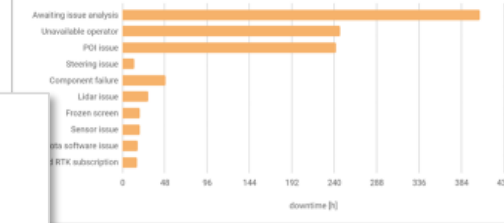
Passenger boarding heatmap



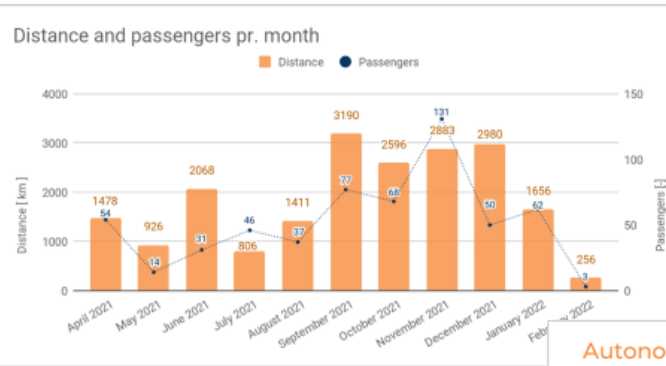
Downtime causes



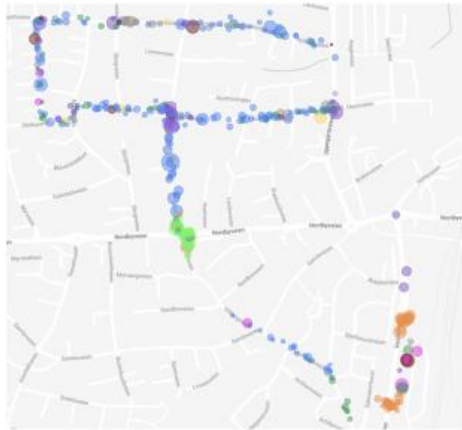
Downtime cause pr. time spent



Monthly distributed



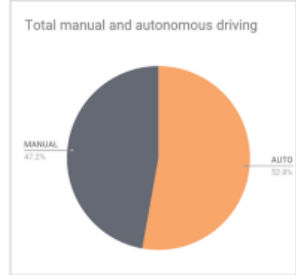
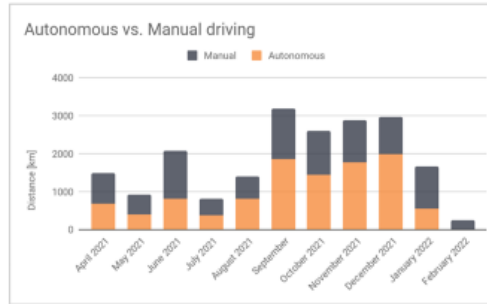
Causes of manual driving



- Violation of Right of Way
- Manual take over - left turn on Vestveien
- Manual take over - crossing Nordbyveien
- Intentional disturbance
- Opposing Cars
- Parking on road

Summary of operation 21

Autonomous vs. manual driving



Summary of operation 20



Key takeaways

- A lot of important learning
- AVs can handle Nordic winter conditions
- Interaction with infrastructure
- Beneficial collaboration

En delleveranse av forskningsprosjektet
AUTOPIA

PROSJEKT **STOR** **Ruter#**
Smartere Transport i Osloregionen

Oppsummering av pilot Linje 529 - Utpøving av selvkjørende kjøretøy i Ski

April 2021 - januar 2022



Postboks 40 / Postboks 1030 Sentrum / NO-0101 Oslo / www.ruter.no



SUMMARY OF OPERATION

A summary of project learnings obtained during operation of autonomous vehicles in Ski, Norway

Authors: Sophie Green, Hans Fridberg, Ivan Bilic and Livia Dzipinova, Holo
Copenhagen/ Oslo, March 2022

AUTOPIA

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