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KNOWLEDGE FOR A BETTER WORLD

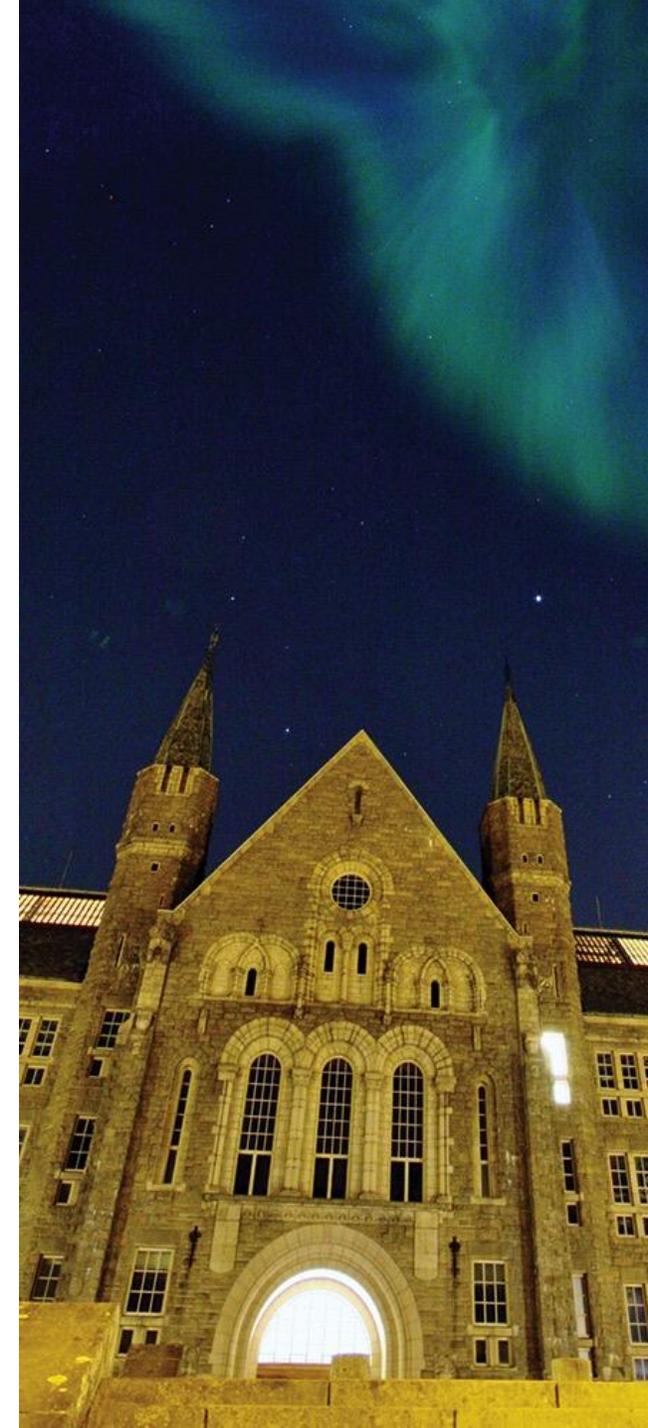
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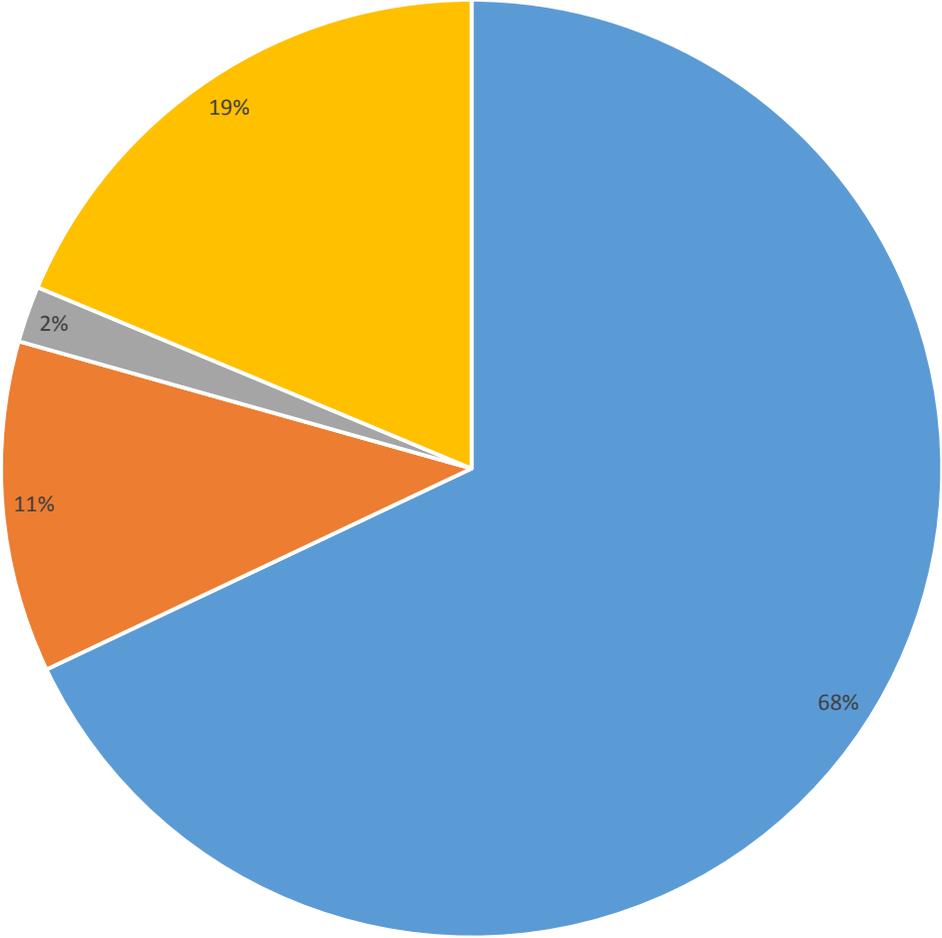
NTNU

Key figures 2017

- 8 faculties, 55 departments
- More than 42 000 students (2018)
- 7210 completed bachelor's and master's degrees
- 362 doctoral degrees



Budget 2017



■ Base grant ■ NRC ■ EU ■ Other

2017

Studenter: 230
Ansatte: 105

OLAVSHALLEN

Studenter: 70
Ansatte: 21

INNHERREDSVEIEN

Studenter: 21 000
Ansatte: 5 620

TYHOLT

Studenter: 650
Ansatte: 180

TUNGA

Studenter: 2 000
Ansatte: 220

MOHOLT

Studenter: 1 050
Ansatte: 170

DRAGVOLL

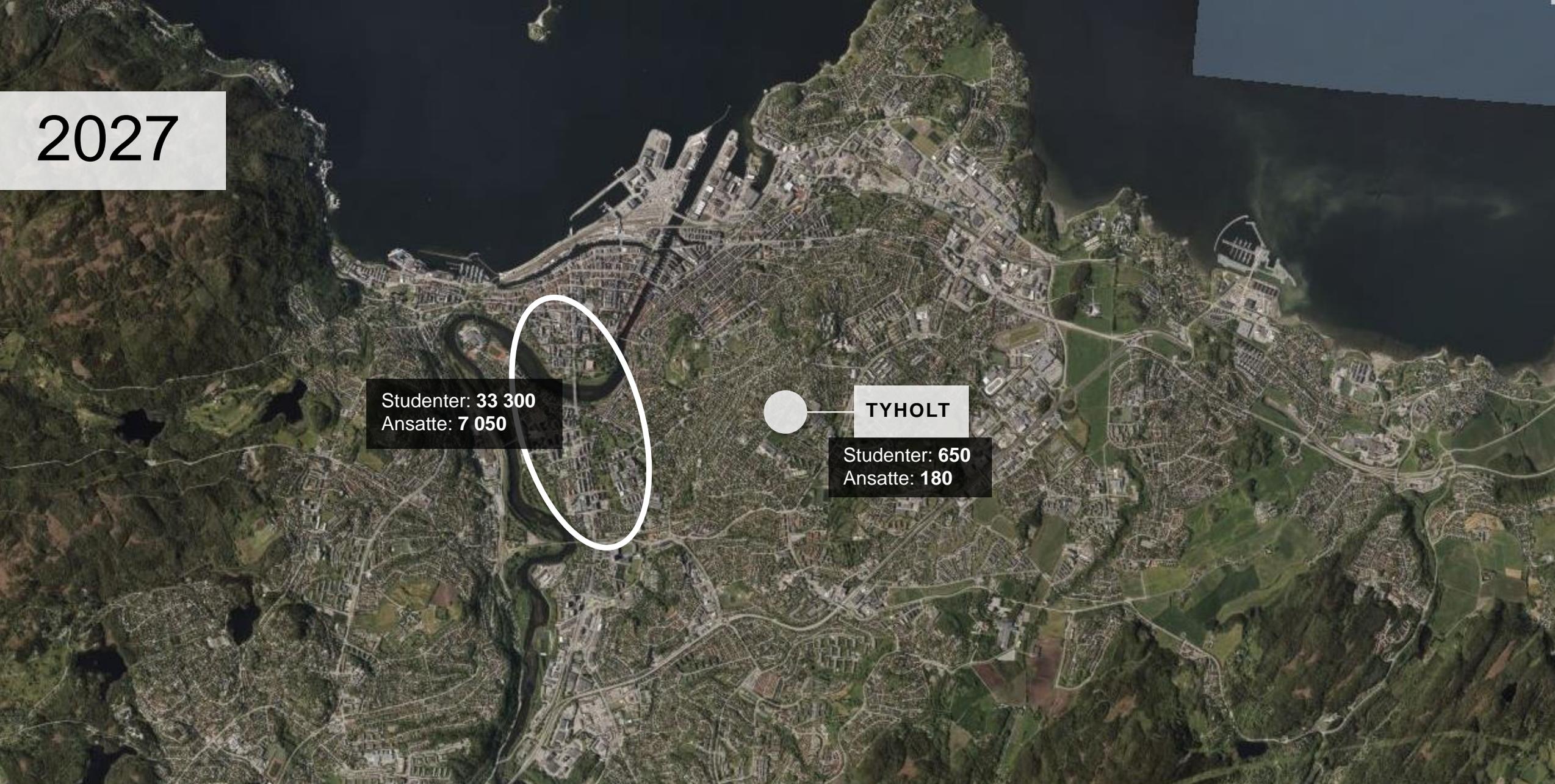
Studenter: 8 800
Ansatte: 880

2027

Studenter: 33 300
Ansatte: 7 050

TYHOLT

Studenter: 650
Ansatte: 180



Department of Civil and Environmental Engineering

Building and Construction



Marine Civil Engineering



Road, Transport & Geomatics



Geotechnical Engineering



Hydraulic Engineering



Water and Wastewater



Civil Engineering



Labs and infrastructure



Road, Transport and Geomatics



Head of Research Group



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Associate Professor

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30 people

- Railway
- Traffic
- Road

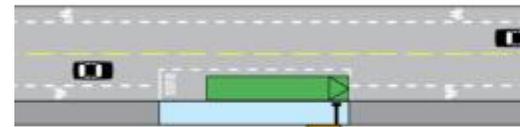
Master thesis 2019

- Cargobikes
- Effects of cycle superhighways
- Cycling and alcohol
- Safety of winter cycling
- Truck-bicycle conflicts
- Underreporting of cycle accidents
- Maintenance of cycle paths

Bus stops and cyclists (2018)



Figur 42: Ventende busspassasjerer, Prinsen Kinose



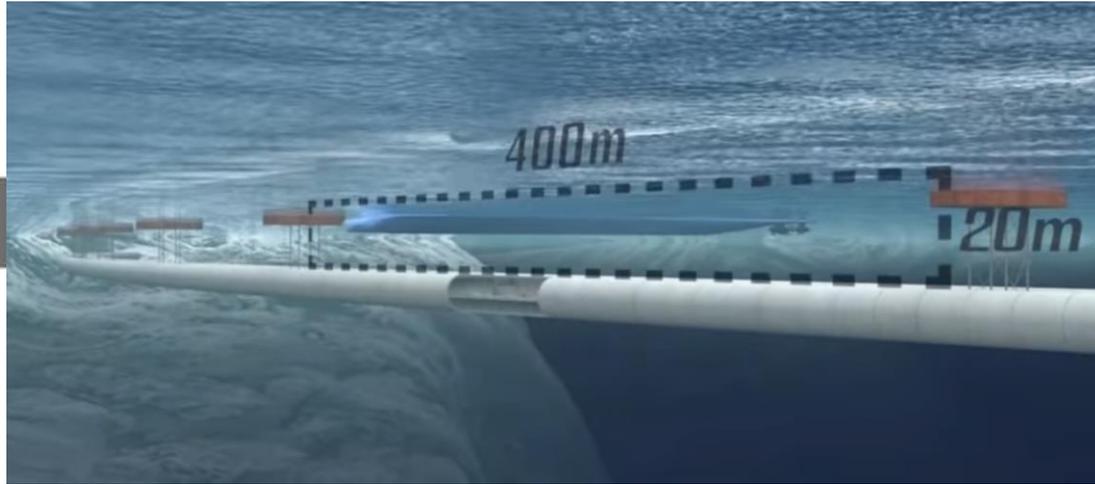
Figur 13: Nyborg 1 fra sentrum (til venstre) og Nyborg 2 til sentrum (til høyre) (Maps, 2018f; Statens Vegvesen, 2014c).

1.2.1 Kalibrering Nyborg 1

Kalibreringen av Nyborg 1 resulterte i et koordinatsystem og nettverk som illustrert i Figur 14. Til venstre er kartet (til venstre) og kameraet (til høyre).



PhD/PostDoc projects



https://www.youtube.com/watch?time_continue=355&v=94ZpOWroNv0

Since 2013, 26 PhD candidates and post docs have started work on several topics related to E39

Fjord Crossing



Traffic Management



Road planning and pavement tec.



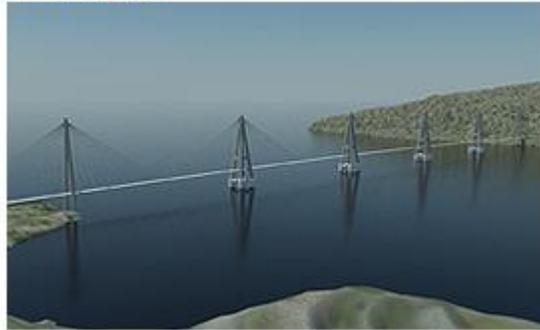
Project Management



Tunnels



Geohazards



Materials



LCA, Life cycle analyses



- The impact of fixed links on population development, housing and the labor market
- Generated and induced traffic demand: Empirical evidence from a fixed link toll removal in Norway
- Modelling the Impacts on Population Caused by Fixed Link Projects

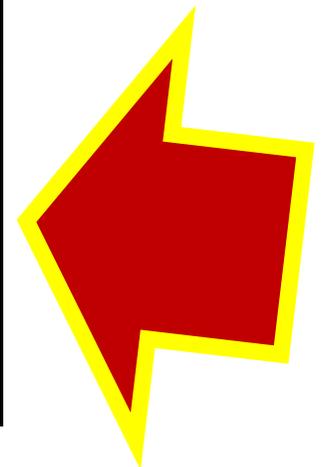
Data, Laboratory

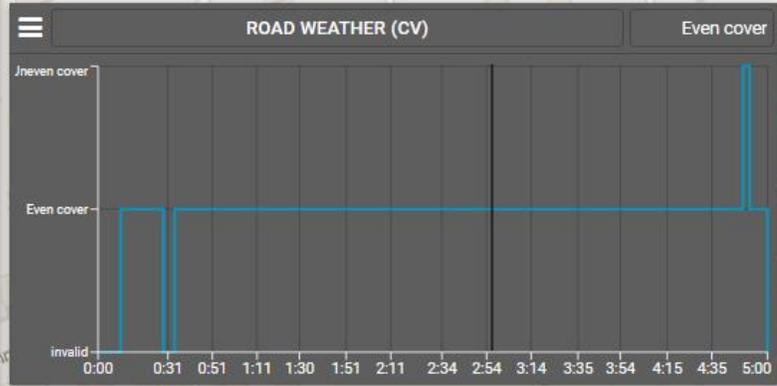
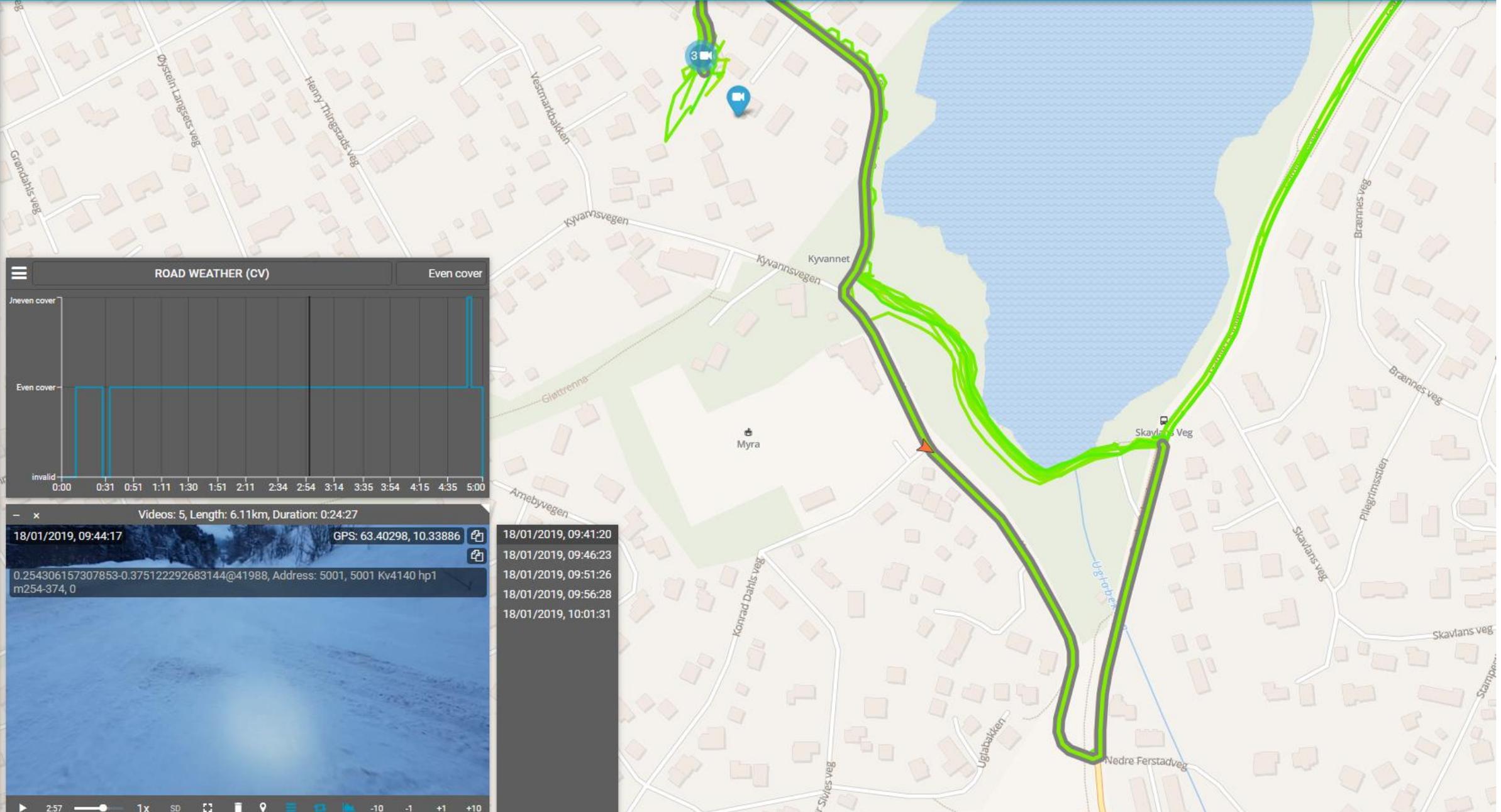
- Weight in Motion data from speed enforcement systems
- Traffic flow characteristics (signal intersections, gap acceptance...)
- New technologies to collect better travel data, with a focus on train passengers
- Car/Cycle Tire-pavement friction on snow
- Developing methods for measuring different properties of the road surface in winter, in relation to the user experience for cyclists and pedestrians



VRU – data, safety

- Wi-Fi and Bluetooth based sensors for pedestrian detection in urban areas
- Travel Behavior of cyclists – evaluations of cycling related infrastructure projects
- Seasonal variation in risk perception and travel behaviour among cyclists in a Norwegian urban area
- Pedestrian and bicyclist behavior considering road operations
- Observations of truck-bicycle encounters: A case study of conflicts and behaviour in Trondheim





Videos: 5, Length: 6.11km, Duration: 0:24:27

18/01/2019, 09:44:17 GPS: 63.40298, 10.33886

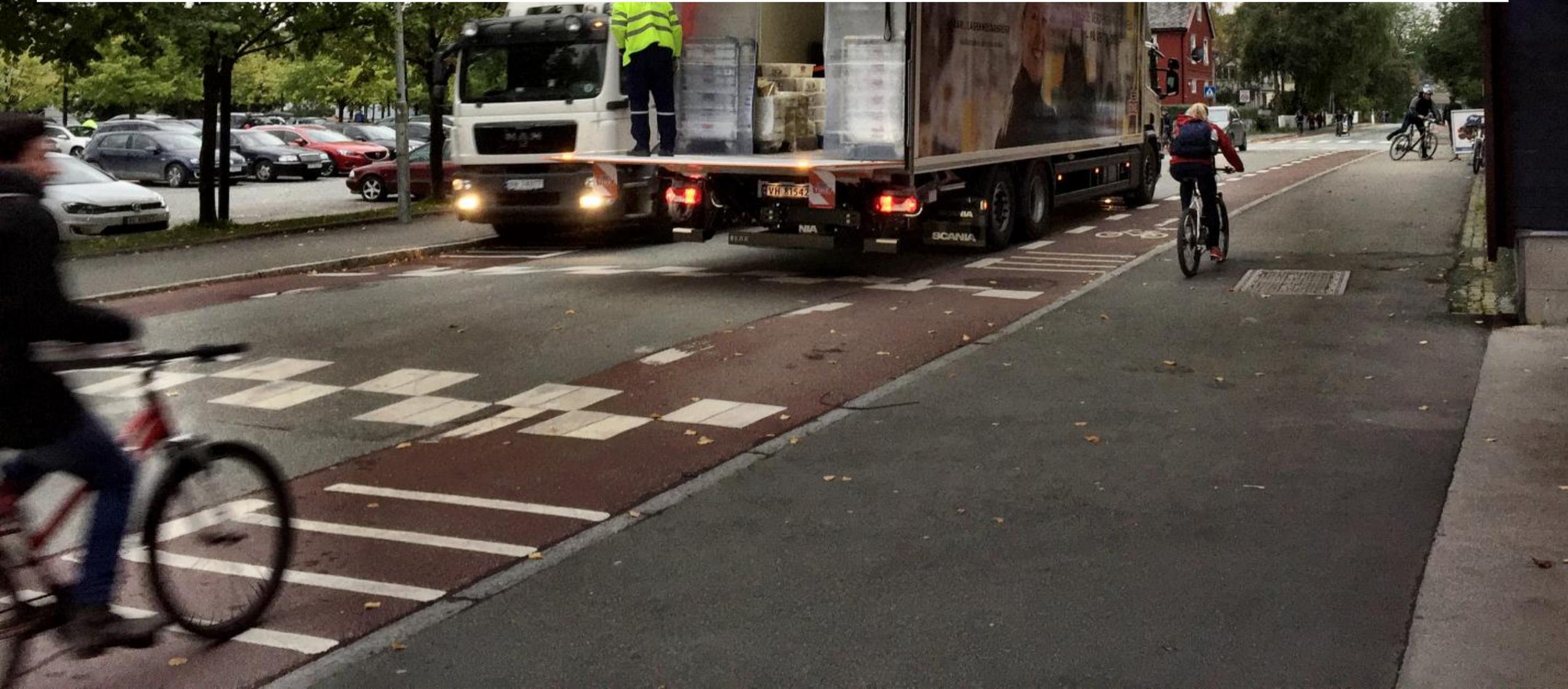
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18/01/2019, 09:46:23
18/01/2019, 09:51:26
18/01/2019, 09:56:28
18/01/2019, 10:01:31

2:57 1x SD

Logistic

- The need for improved information flow to address safety in urban construction site deliveries.
- The complexity of planning for goods delivery in a shared urban space: a case study involving cyclists and trucks



Topics of interest

- Safety – VRU (single accidents, underreporting)
- BLOS, cyclist vs. pedestrians (experiment, simulator)
- E-bikes
- Travel behaviour (survey, modelling, culture differences)
- Economic benefits/Evaluation of sustainable streets, car free areas
- Urban freight logistic
- Education – PhD students...

tusen takk – thank you – děkuji



Norwegian University of
Science and Technology