

THE HUMAN CENTRIC SMART CITY

Silje Bareksten

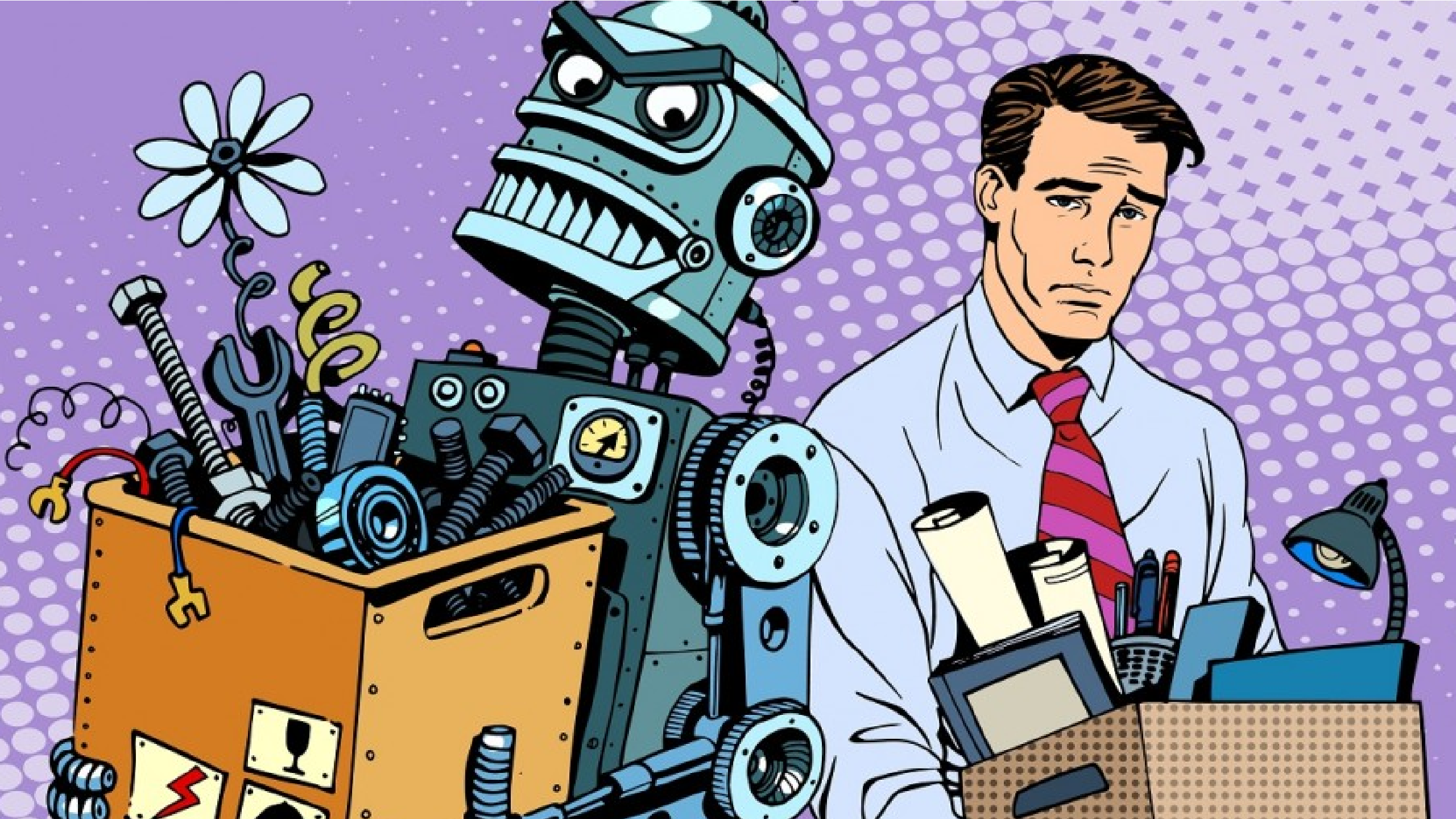
Head of Sustainability and Technology

2018

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How do we define Oslo Smart City?

”Apply technology and innovation to create seamless and effective citizen services, while always reflecting the environmental and sustainability goals and priorities of the city of Oslo ”

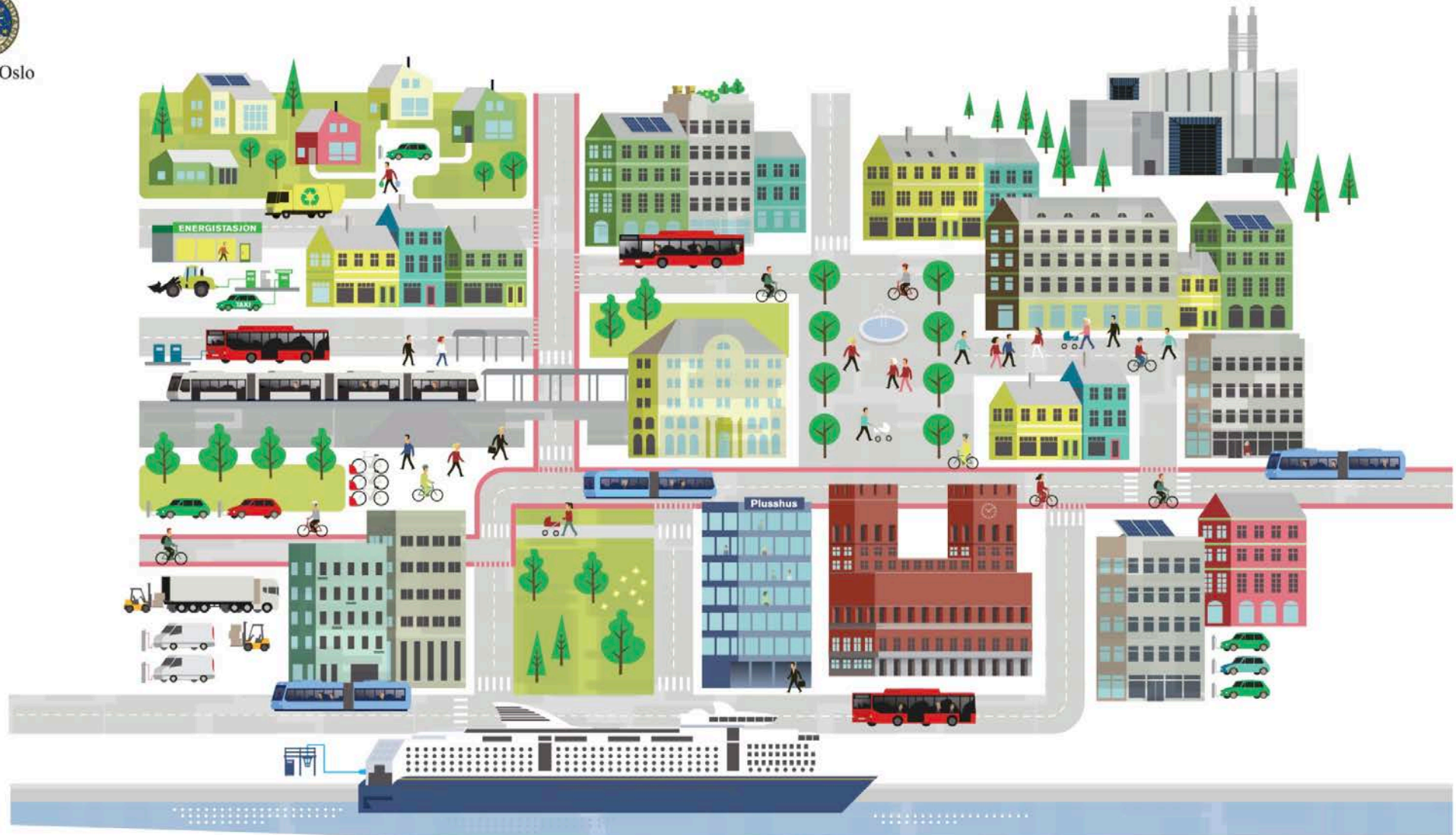
Oslo Municipality is opening up and inviting in citizens, businesses, entrepreneurs and startups to co-create the services of the city

We seek to contribute to build Oslo as a test and demonstration arena for environmentally friendly and sustainable smart city solutions





City of Oslo





Health Care
Doctor
Hospital
Pharmacist
Nurse
Dentist
First Aid
Surgeon
Emergency

MEDICAL

MEDICAL

MEDICAL



The agreement on climate policy

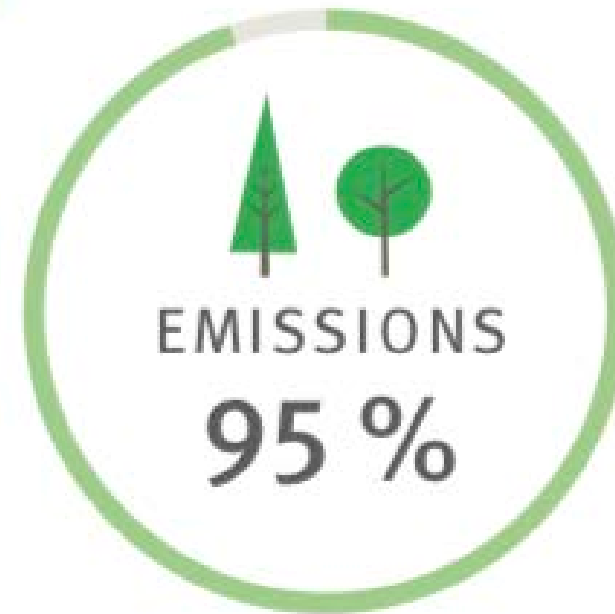
Overarching objectives for the Norwegian Climate Policy

- Norway will exceed its Kyoto commitment by 10 percentage points in the first commitment period
- Until 2020, Norway will make a commitment to reducing global greenhouse gas emissions by an amount corresponding to 30 % of Norway's' emissions in 1990
- Norway will be carbon neutral in 2050
- As part of a global and ambitious climate agreement where other industrialized countries also make major commitments, Norway will have a binding target of carbon neutrality by 2030 at the latest..
- .. Meaning that Norway will ensure for reductions in emissions that are equivalent to Norwegian emissions in 2030

The targets of the Climate and Energy Strategy for Oslo:



To reduce greenhouse
gas emissions by 50 per
cent by 2020



and by 95 per cent
by 2030.

Historical and projected emissions curve 1990–2030



Source: Statistics Norway, 2013.

Main sources of greenhouse gas emissions in Oslo



Source: Statistics Norway combined with The City of Oslo's own numbers, 2013.

19%



A total of **19 per cent** of the city's emissions derive from the treatment of sewage and waste. Carbon capture and storage of emissions from Oslo's largest waste-to-energy plant at Klemetsrud could make a substantial difference in this context.

17%



The use of fossil heating oil in buildings accounts for **17 per cent** of the emissions. The goal is to fully phase out these emissions by 2020.

61%



61 per cent of the emissions in Oslo derive from transport, of which around half are attributable to the transport of people, and half to goods transport and construction activities. The transport sectors will require the most determined efforts moving forward.

Distribution of emissions from transport

Source: Statistics Norway combined with The City of Oslo's own numbers, 2013.

PRIVATE CARS



TAXI



PUBLIC TRANSPORT



LEIGHT FREIGHT VEHICLES



HEAVY DUTY VEHICLES



CONSTRUCTION MACHINERY



2018

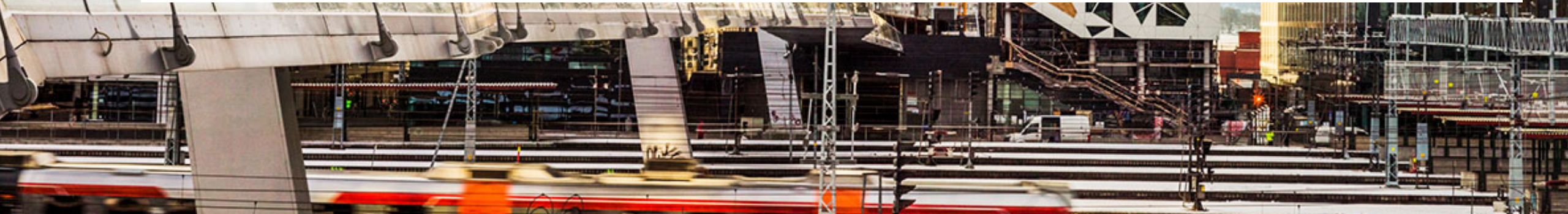


The City of Oslo aims to gradually phase out fossil fuel-based vehicles by 2030 and replace these with zero-emissions vehicles.

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Procurement strategies that require zero-emission transport solutions, based on electricity or hydrogen will push technology development.





Being a city rich in resources, in a country with abundant access to renewable energy, gives Oslo a unique position, with the potential for developing innovative solutions and be a leading city internationally. Our unique position comes with a responsibility – one we should and will embrace.





Smart Oslo Accelerator In numbers

Contributors

4

Startup hubs
Tøyen startup vilage
657 co-working
Aleap
The factory

5+

Divisions from Oslo kommune
Byrådsavdeling for eldre, Helse og arbeid, Bymiljøetaten, Byrådsavdeling for næring og eierskap, Klimaetaten, Plan- og bygningsetaten, Helseetaten

4

Private organizations
Sopra Steria
Microsoft Norge
CANIC

80
Startups applied

17
Startups selected to pitch

20+
Mentors from public, private and tech sectors made available

10+
Different nationalities within the applicant mix

4 companies were selected

Byspire
Prelud

Ducky
TikkTalk

Results

TikkTalk
won a public procurement tender for interpretation services

BySpire
was awarded funding to set up a demonstration of their system at Aker Brygge

Silje Bareksten

Head of Sustainability and Technology

Nor-Shipping

siljebareksten@gmail.com

silje@nor-shipping.com

Twitter: @SiljeBareksten

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