



Developing public transport in an age of geopolitical unpredictability

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CEO Ruter

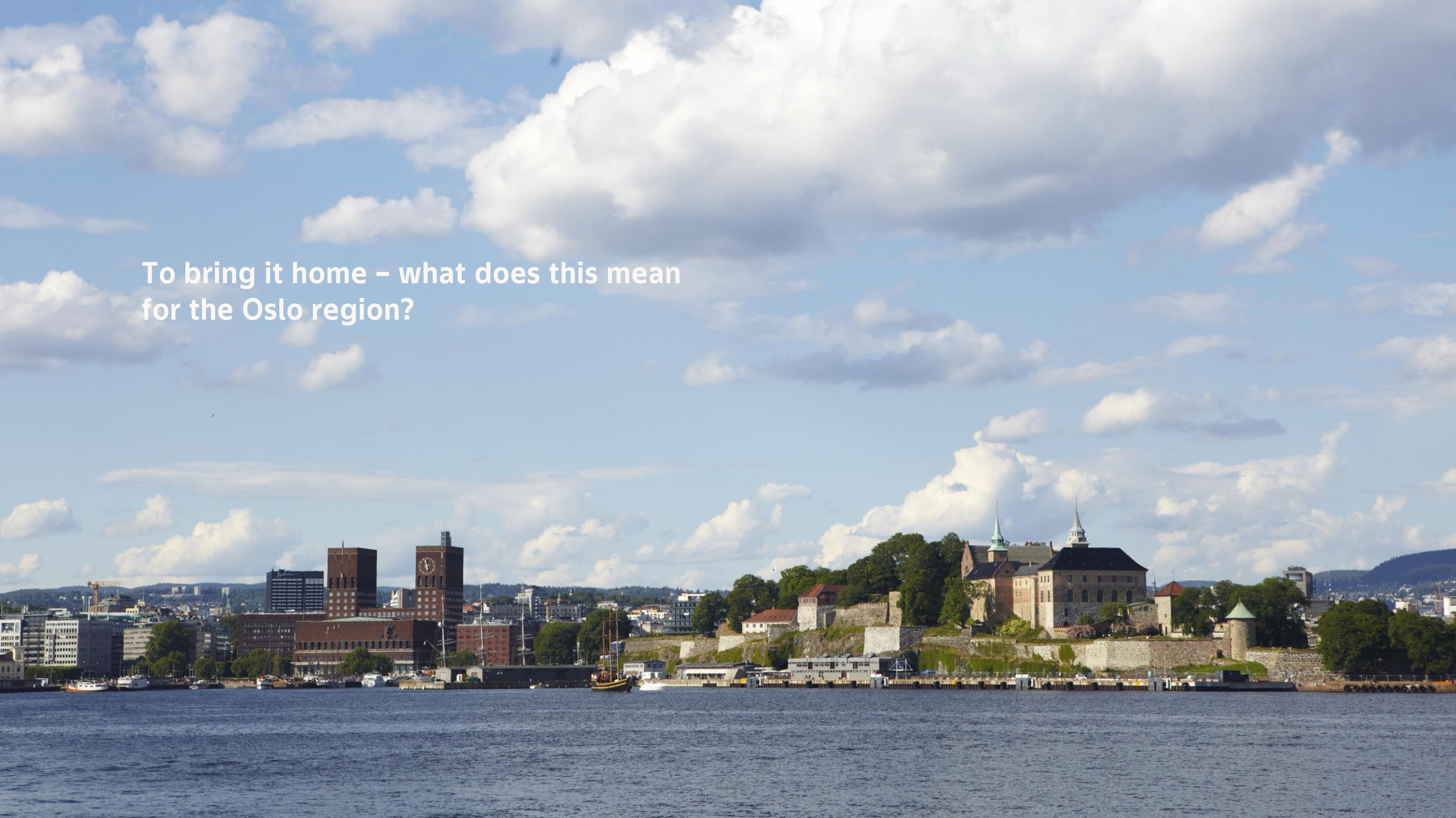
28.10.25

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Geopolitics transform the two important drivers for developing public transport – **decarbonisation** and **technology** – from **sustainable solutions** to **security risk**



To bring it home – what does this mean
for the Oslo region?



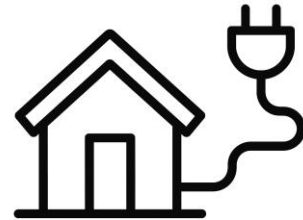
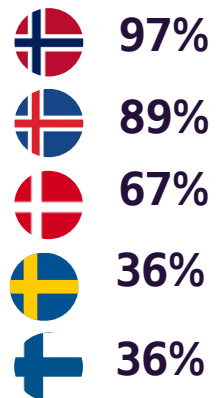
Decarbonisation

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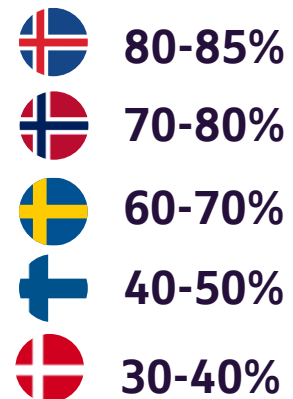
How *electric* is Norway?



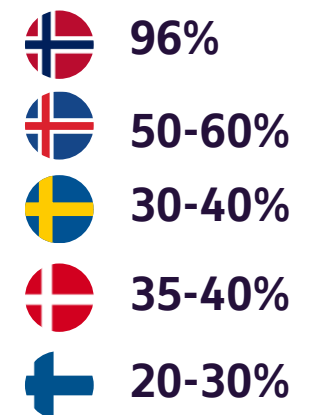
Share of energy production
from *renewable sources*



Amount of *domestic* energy
consumption being *electric*:



Share of new cars
being electric:





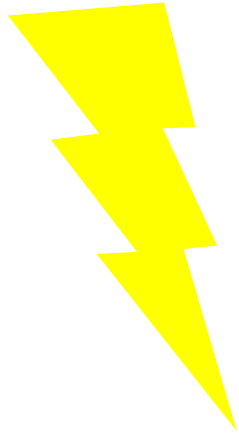
An energy crisis is the
mother of all crises.

Building resilience is about
managing supply logistics





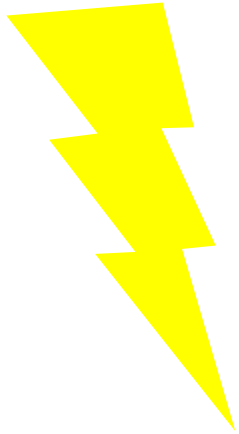
Resilient



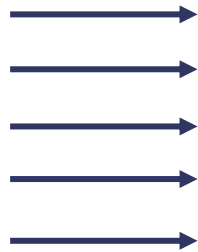
Less resilient, due to supply vulnerability



Dependency on monofuel



Grid
Generators
Solar
Wind
Batteries
++



Flexible for delivery system
from a multitude of sources





We need to redefine **supply logistics** to answer the demands for tomorrow



Ruter's Road to Decarbonisation

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130 years of electric rail:
Oslo (then called Kristiania) got its first
electric tram in 1894 – as the first in the
Nordics...



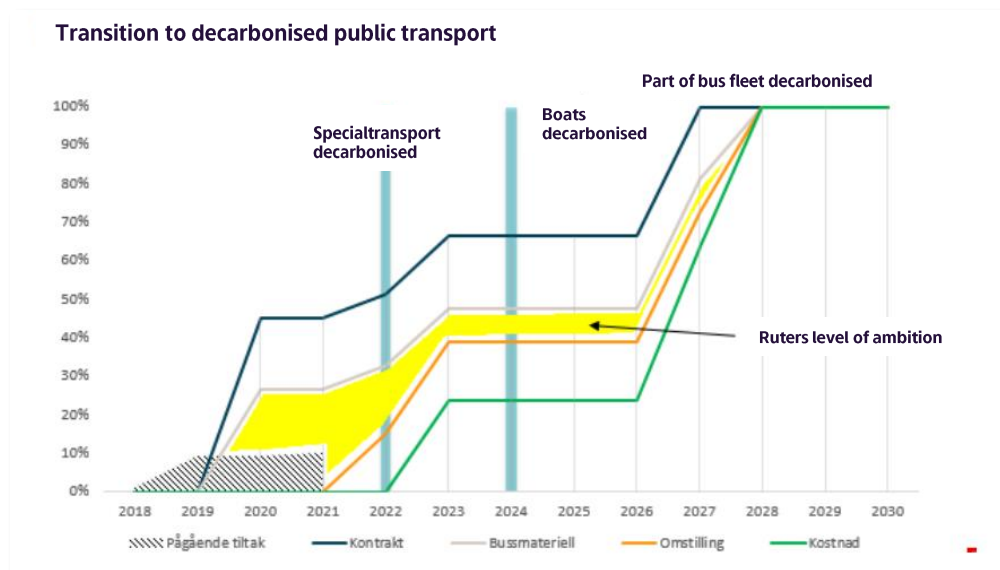


...and today the trams and metro are running on **Green Certificates**.



Path to decarbonisation by 2030

In 2015, Ruter commissioned a report on decarbonised public transport for 2028, This report promotes a **gradual implementation, and this has been the blueprint.**



21 Tjuvholmen

3115

Ruter#

VDL

EV 45837

Buses are not the only
thing being electrified



Foto: Kjell Brataas/SD



National emission targets require **more electrification.**

We need a decarbonisation strategy that ensures that the transport sector functions, in peace and crisis and anything in between



To improve insight into energy resilience Ruter has:

- Mapped out **vulnerability** and created a **value analysis** of the **supply chain**.
- Conducted an **in-depth analysis** of six representative charging facilities, to map out **resilience against physical and digital attacks**
- Together with **PTOs** we have strengthened **charging infrastructure** to withstand snow and colder conditions
- We **share learnings** with governmental security bodies, the armed forces and other stakeholders
- **Invited to Round Table** in December with top management of key governmental bodies



Technology

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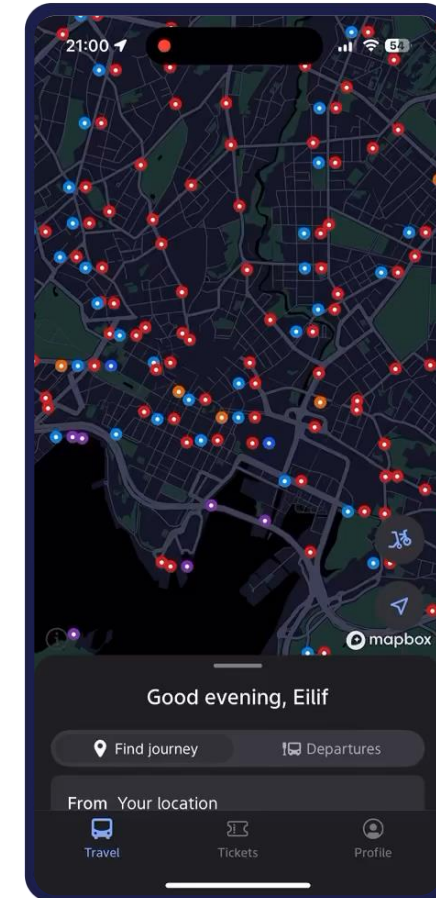
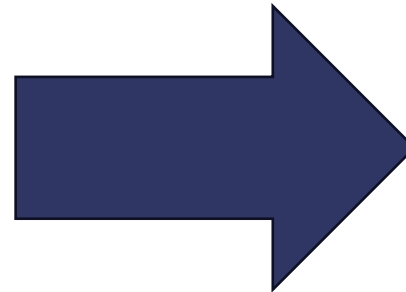
Everything is connected

Connectivity helps us deliver **better services** to our customers, which in turn is important for **increasing desirability and market share**.

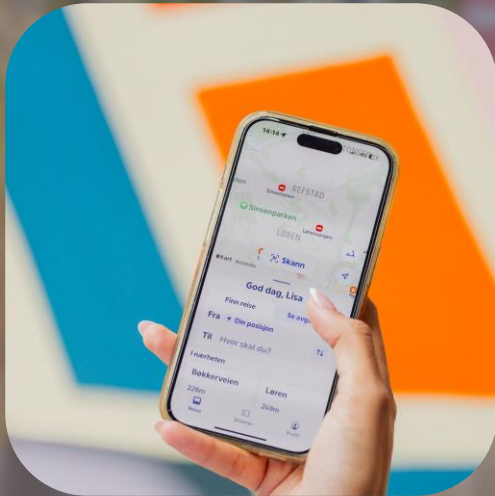
110 Oslo bussterminal - Lillestrøm
Gyldig fra: 30.06.2019

Mandag - fredag Monday - Friday

	Oslo bussterminal	Galgebørg	Helsyr T	Ulvenkrysset	Folkvangveien	Vesperud	Rasta senter	Vollerudveien	Trønden	Finstadlia	Lørenskog kirke	Alnus	Stasjonsveien	Sjøgøien	Lillestrøm busterr
Første first	0538	0543	0547	0549	0556	0559	0602	0604	0605	0608	0611	0616	0621	0624	0628
	0553	0558	0602	0604	0611	0614	0617	0619	0620	0623	0626	0631	0636	0639	0643
	0608	0613	0617	0619	0626	0629	0632	0634	0635	0638	0641	0646	0651	0654	0658
	0623	0628	0632	0634	0641	0644	0647	0649	0650	0653	0656	0701	0706	0709	0713
Fra from	0635	0640	0644	0646	0653	0656	0659	0701	0702	0705	0708	0713	0718	0721	0725
Hvert every	45	50	54	56	03	06	09	11	12	15	18	23	28	31	35
10 min	55	00	04	06	13	16	19	21	22	25	28	33	38	41	45
	05	10	14	16	23	26	29	31	32	35	38	43	48	51	55
	15	20	24	26	33	36	39	41	42	45	48	53	58	01	05
	25	30	34	36	43	46	49	51	52	55	58	03	08	11	15
	35	40	44	46	53	56	59	01	02	05	08	13	18	21	25
Til to	1955	2000	2004	2006	2013	2016	2019	2021	2022	2025	2028	2033	2038	2041	2045
Fra from	2008	2013	2017	2019	2026	2029	2032	2034	2035	2038	2041	2046	2051	2054	2058
Hvert every	23	28	32	34	41	44	47	49	50	53	56	01	06	09	13
15 min	38	43	47	49	56	59	02	04	05	08	11	16	21	24	28
	53	58	02	04	11	14	17	19	20	23	26	31	36	39	43
	08	13	17	19	26	29	32	34	35	38	41	46	51	54	58
Til to	0038	0043	0047	0049	0056	0059	0102	0104	0105	0108	0111	0116	0121	0124	0128
Siste last	0053	0058	0102	0104	0111	0114	0117	0119	0120	0123	0126	0131	0136	0139	0143

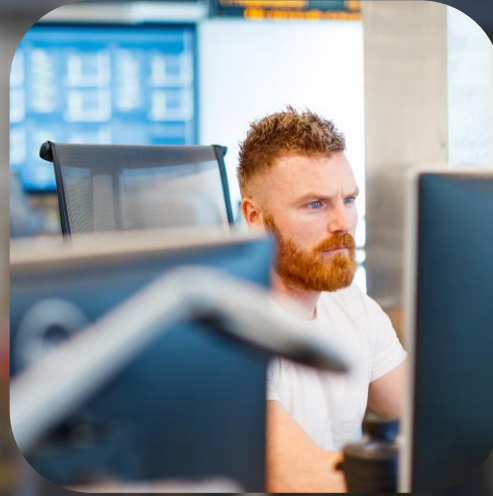


App



Unlocking mobility,
including payment
and travel planning

Operations Centre



Managing the service,
including disruptions
and travel information

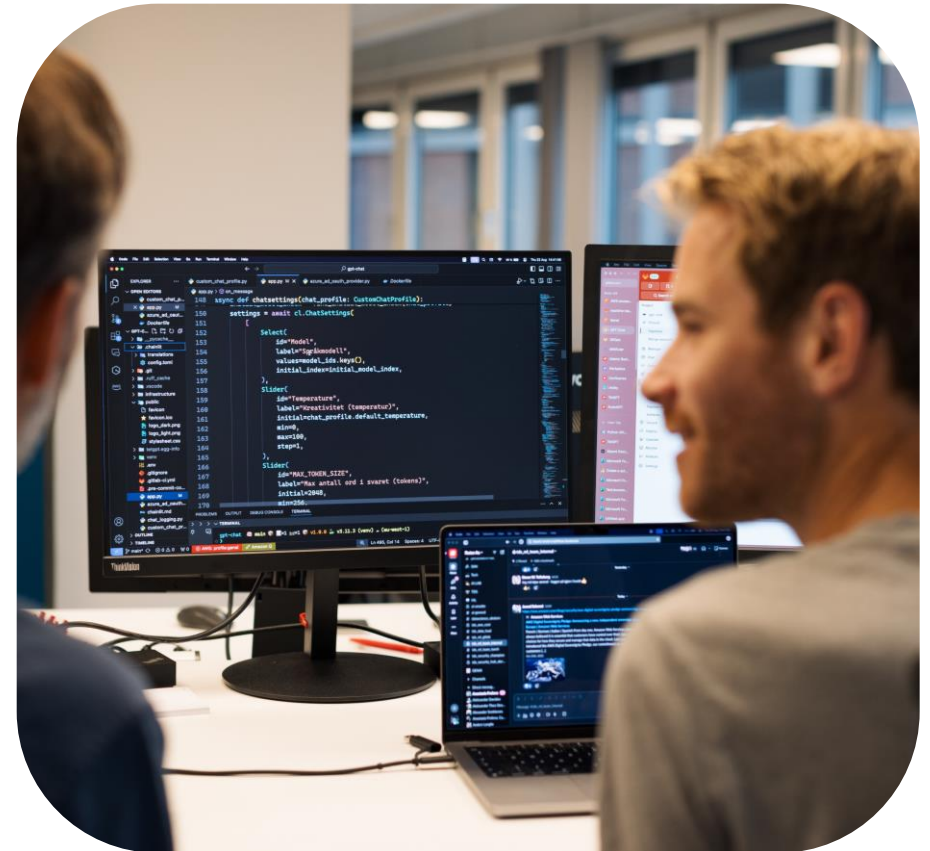
Real time travel information



Unlocking mobility,
including payment
and travel planning.

How Ruter is addressing **data security**:

- Data security is key to safeguarding the connectivity value chain
- We work closely with the PTOs to ensure that their data harvesting is up-to-spec
- Data security team in TET and Ruter that monitor and put in place extra layers of data security. This is especially important with regards to our on-demand services.



+ TECH + NEWS + POLICY

Remote lockouts reportedly stop Russian troops from using stolen Ukrainian farm equipment



Some of the equipment had built-in GPS trackers. Photo by Maxym Mazusenko/NuzPhoto via Getty Images

/ Troops hauled the inoperable equipment as far as 700 miles away

by [+ Emma Roth](#)
May 3, 2022, 12:32 AM GMT+2

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+ Emma Roth is a news writer who covers the streaming wars, consumer tech, crypto, social media, and much more. Previously, she was a writer and editor at MUO.

One of six new buses purchased from China

Of the over 6,000 newly registered buses in Norway since 2020, more than 1,060 are Chinese. The Norwegian People's Party wants to send all Chinese electric buses out of the country due to safety risks. – Irresponsible, says NHO.

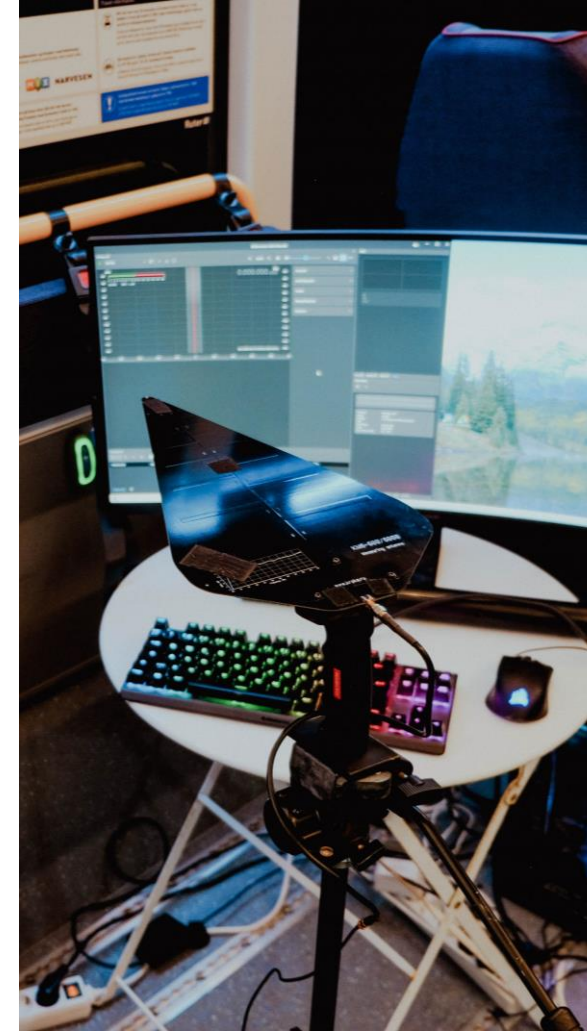


From this summer, the bus company in Nesodden will only use electric buses from Chinese BYD. (Photo: Øyvind Finstad)





Identifying risks
Applying measures



Lion Cage

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