

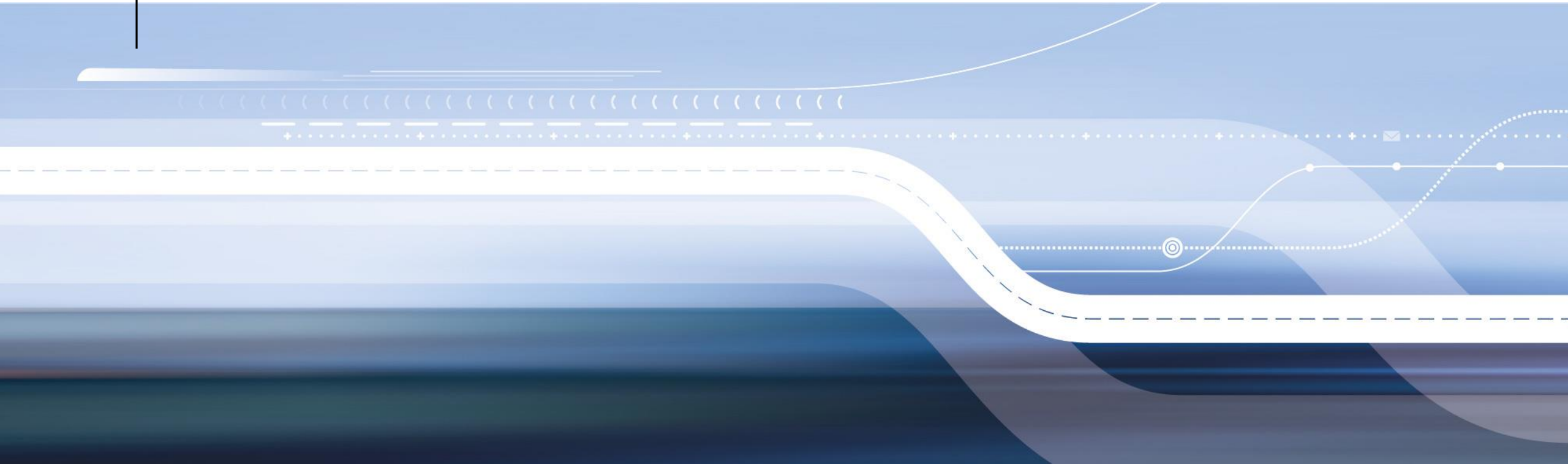


Norwegian Ministry of Transport and Communications

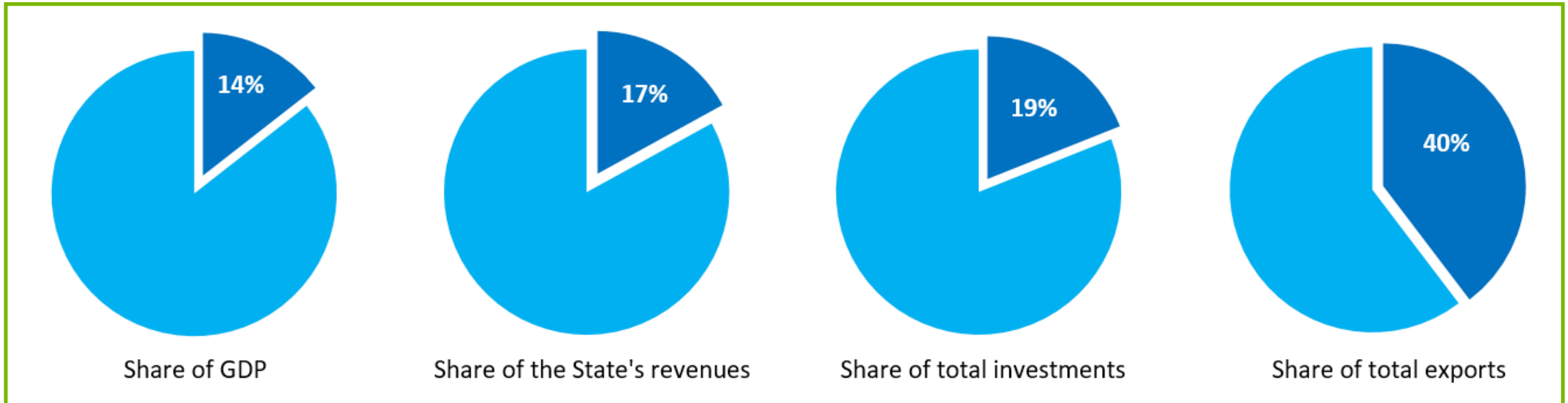
Aviation policy

State Secretary Brage Baklien

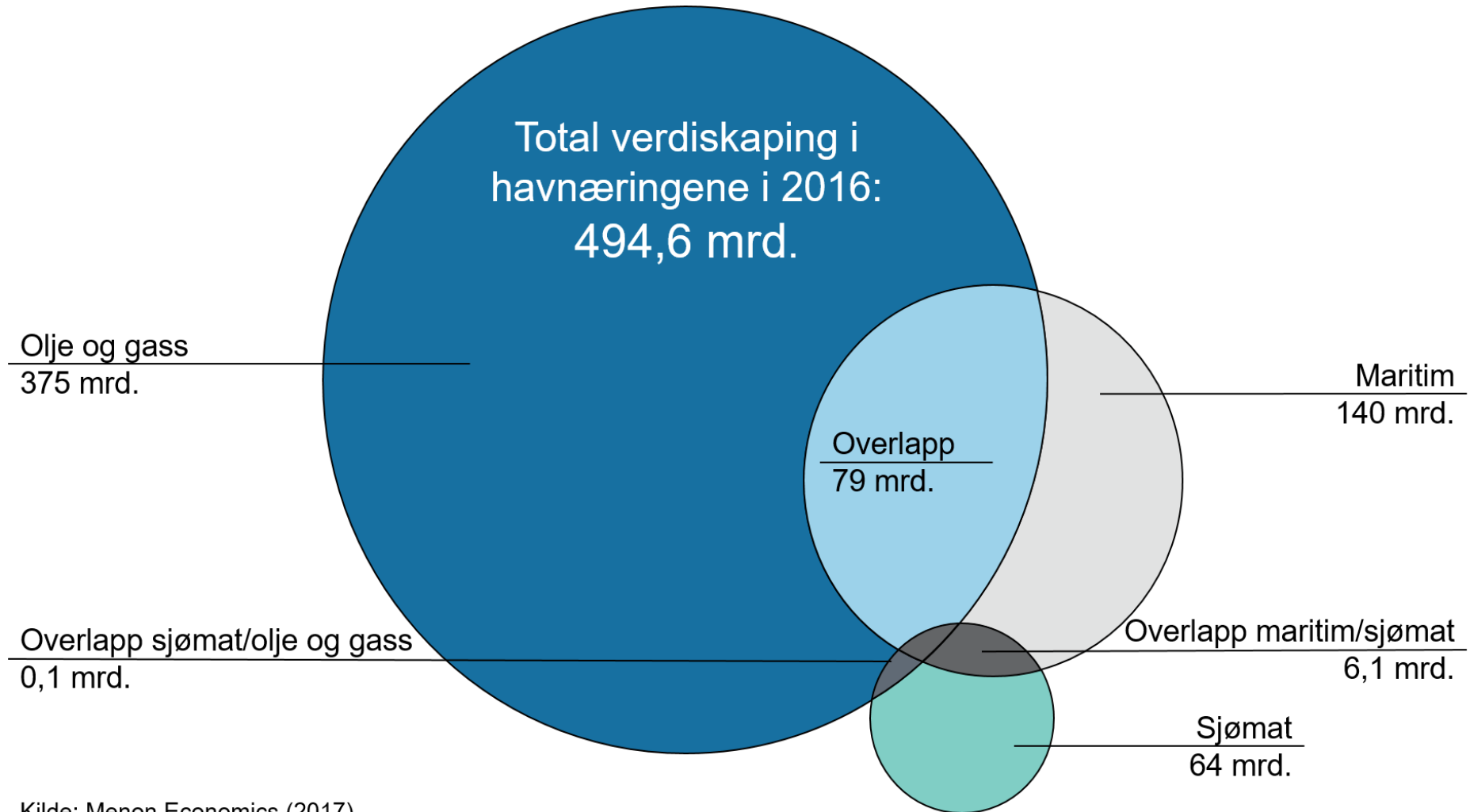
Solakonferansen 2018, Clarion Hotel Air, September 19th 2018



The Role of Oil and Gas in the Norwegian Economy



Verdiskaping fra havnæringene



Kilde: Menon Economics (2017)



5th AVE NYC 1900

Where is the car?



5th AVE NYC
1913
Where is
the
horse?
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The future of transportation is smart

- Adapted to the individual passenger and driver
- Information-rich systems (in real time)
- More efficient and with less emissions
- Public transport is individualized
- Ambitious Technology Strategy in the National Transportation Plan.



Bilde: Samferdselsdepartementet



Bilde: Tesla



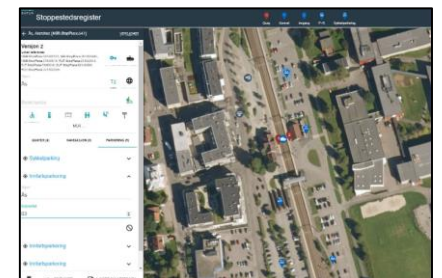
Bilde: Yara/Kongsberg Maritime



Bilde: Kystverket



Bilde: Rama, wikimedia commons CC BY-SA 2.0 FR

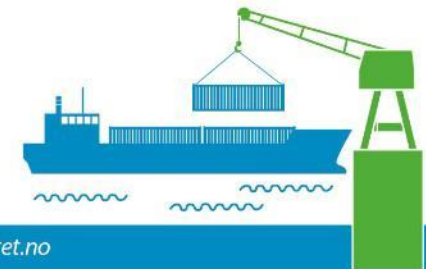
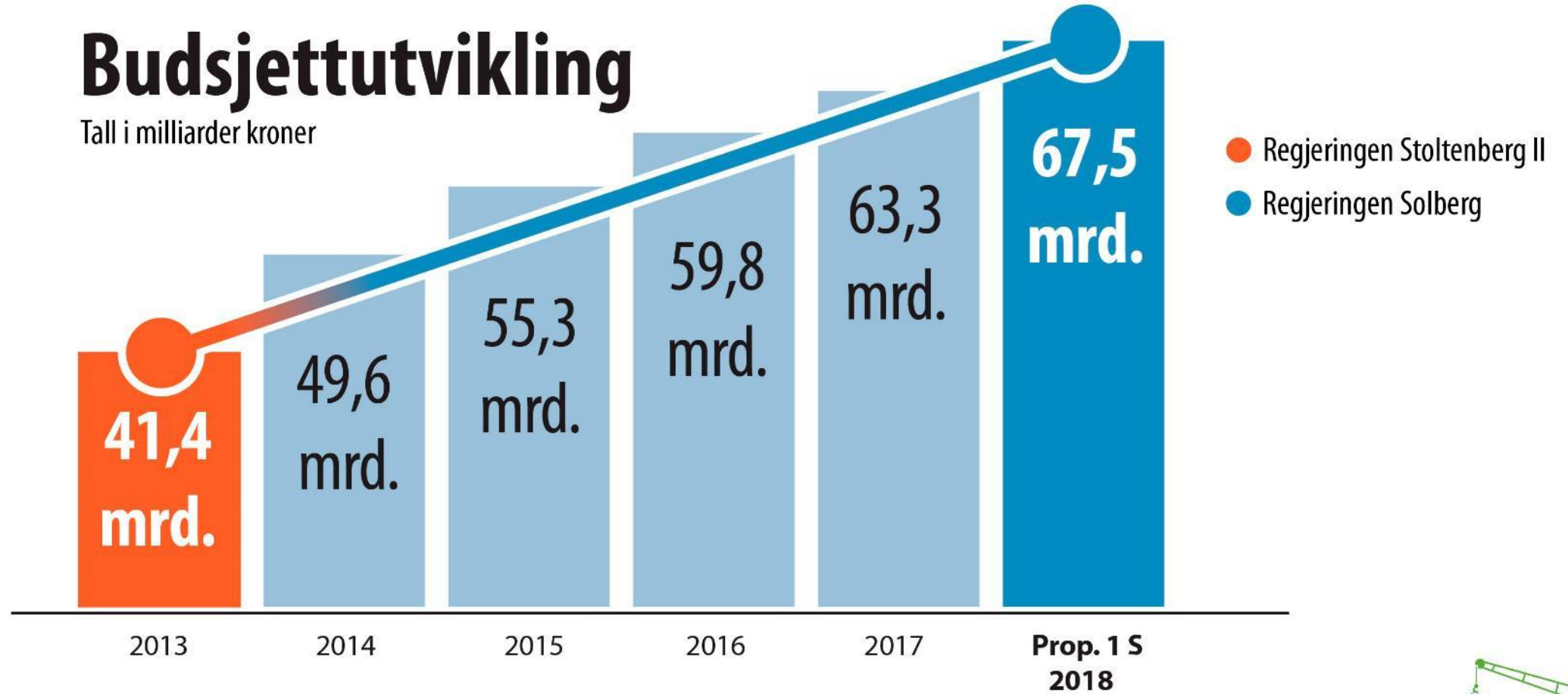


Bilde: Entur AS



Budsjettutvikling

Tall i milliarder kroner



Prop. 65 L

(2013–2014)

Proposisjon til Stortinget (forslag til lovvedtak)

Lov om losordningen (losloven)

Meld. St. 27

(2014–2015)

Melding til Stortinget

På rett spor

Reform av jernbanesektoren



Meld. St. 27

(2015–2016)

Melding til Stortinget

Digital agenda for Norge
IKT for en enklere hverdag og økt produktivitet



Meld. St. 35

(2015–2016)

Melding til Stortinget

På rett kurs

Forebyggende sjøsikkerhet og beredskap
mot akutt forurensning



Strategi

Nasjonal havnestrategi

Regjeringens strategi for effektive havner for å få mer gods på sjø

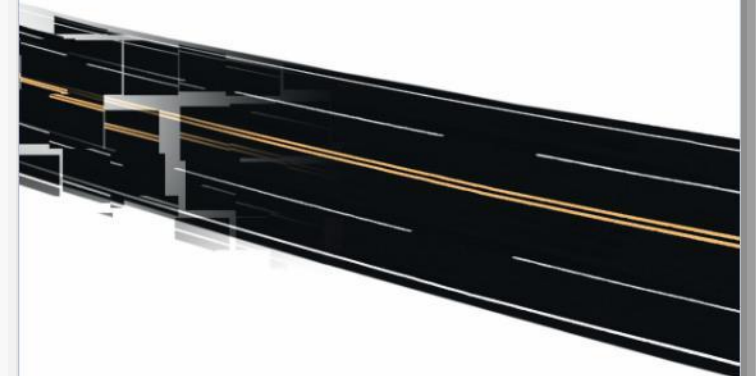
Meld. St. 25

(2014–2015)

Melding til Stortinget

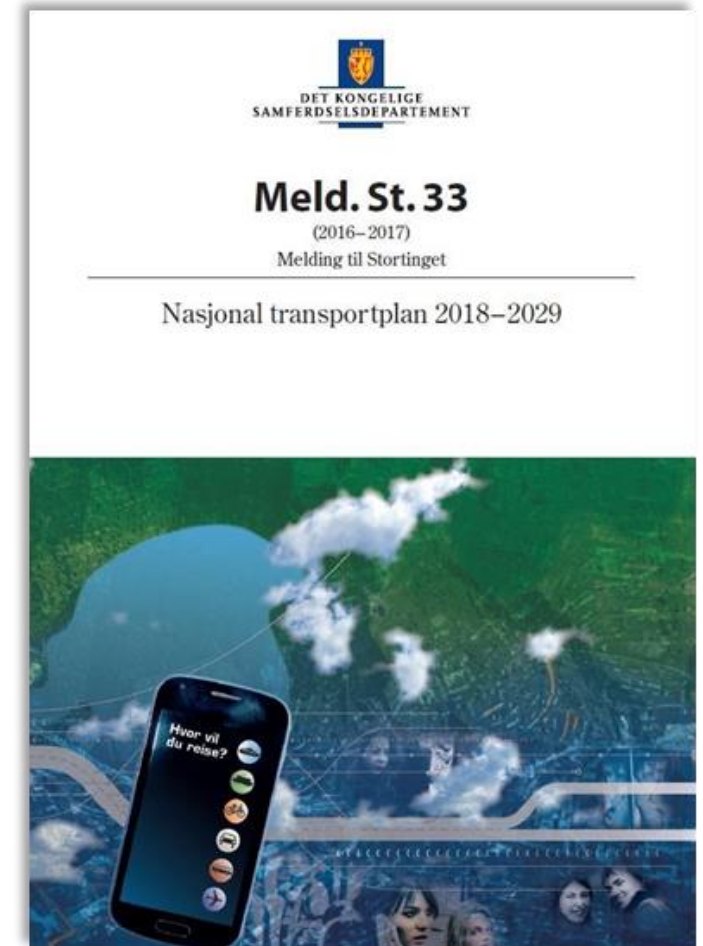
På rett vei

Reformer i veisektoren



Transport policy and technology: National Transportation Plan (NTP) 2018-2029

- White Paper to the Norwegian parliament
- Investment plan for all modes of transport in Norway (not binding in terms of budget allocations)
- Heavy emphasis on new technology and its opportunities:
 - Reduce greenhouse gas emissions
 - Improve mobility
 - Improve safety
 - Contribute to wealth creation and new jobs



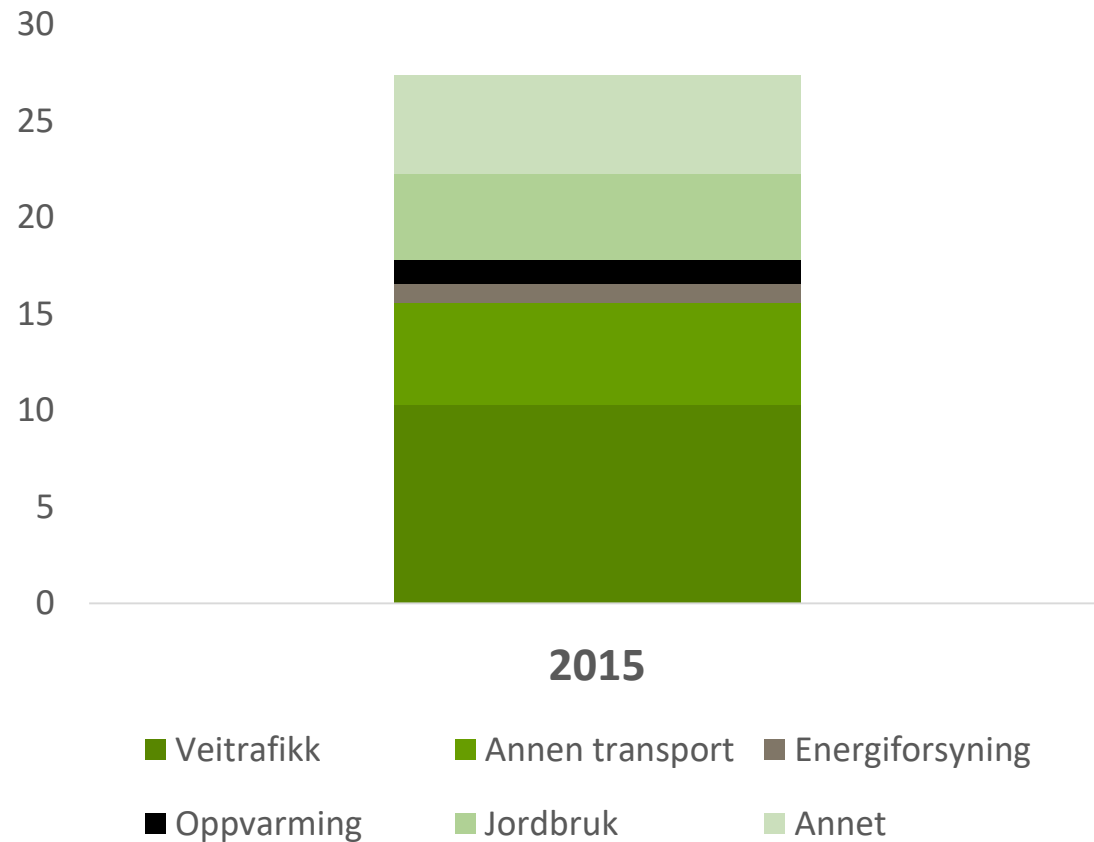
NTP: Technology strategy

- Have a flexible approach towards regulatory issues. Regulations must not be an obstacle to innovation
- Actively use measures such as taxation and public procurement to promote innovative technological solutions
- Participate actively in international cooperation in this area, to support standardisation measures and to avoid fragmented solutions that do not work across borders
- Actively support technological pilot projects
- Increased focus on the provision of relevant and up-to-date knowledge, with a view to understand how technology can help achieve policy objectives in the transport sector

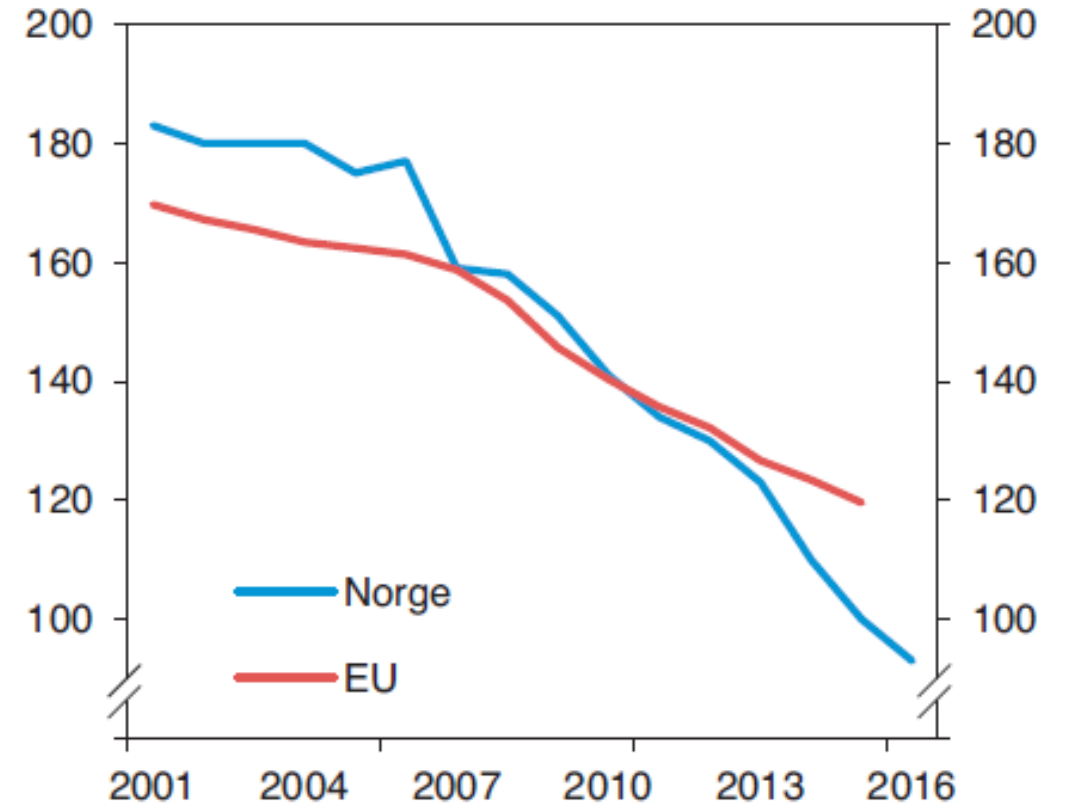


Ambitious goals for the transportation sector

Non-ETS emissions. Mill. tonn CO₂-eq



C. CO₂-utslipp fra nye personbiler. Gram per km



Norwegian airports

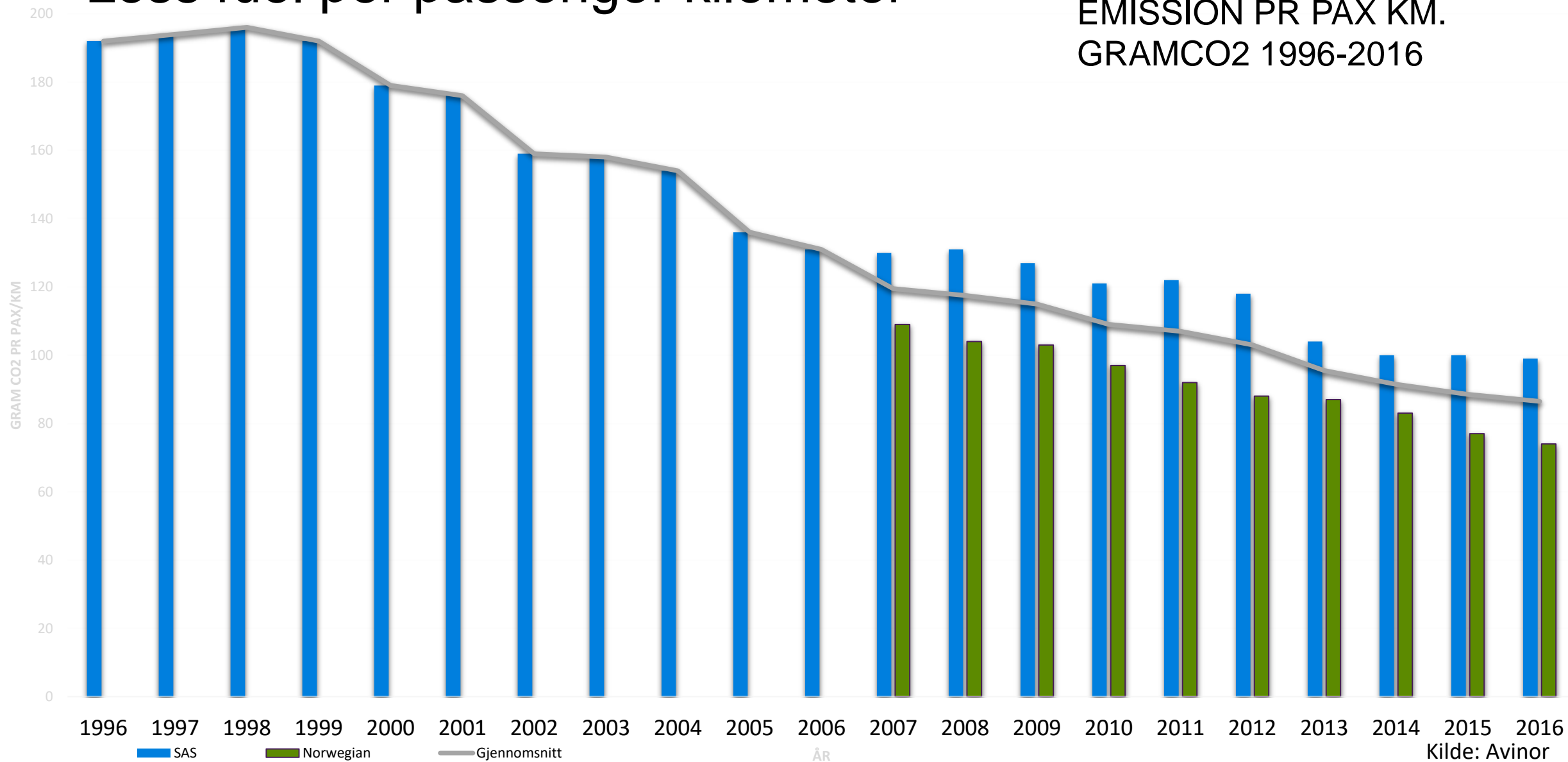


Electrification



Less fuel per passenger kilometer

EMISSION PR PAX KM.
GRAMCO2 1996-2016



Kilde: Avinor





Samferdselsdepartementet

Biofuels



Tower- and approach services (TWR + APP)

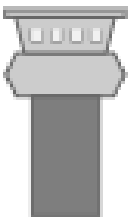
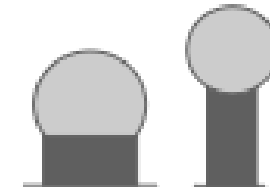
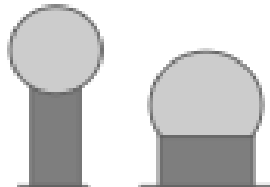
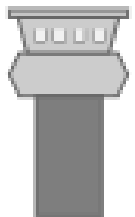
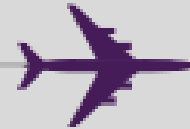
Gate to runway

Take off and departure

En-Route

Arrival and landing

Runway to gate



Remote Tower Operations



Upcoming study on globalization of aviation



- A committee appointed by the Government will study how to develop civil aviation in a best possible way.
- The liberalization of the aviation market has resulted in a global and open market.
- The market situation causes increased competition, reduced ticket prices and significant growth in the traffic.
- The Committee will give us valuable knowledge on the situation for the airlines, employees, environment and safety.
- Both the labor unions and the airline companies will be represented in the committee.



Drones/RPAS

- Rapid development of drone technology opens up new opportunities.
- Adequate framework and infrastructure will make it interesting for the public and industry to apply new technologies.
- The Government has recently presented Norway's first drone strategy, which aims to facilitate both safe use and growth.



Use of drones in the offshore sector

- Norwegian businesses, researchers and authorities already use drones for many important activities.
- There are several uses for drones in the oil sector today. Drones can be used to carry out dangerous or difficult inspections of infrastructure.
- There is an ongoing research related to drones replacing crane lifts between vessels and oil platforms.
- Drone operators must adopt the unique safety culture that exists in the helicopter industry today.
- Cooperation is therefore of great importance.



Health and safety in the offshore sector

- The Government's ambition is that Norway should have the best HSE in the world within the offshore sector.
- The petroleum industry cannot take a high level of safety for granted.
- The industry must have a long-term perspective.



Input needed - we want to hear from you



Autonomous technology, Ford



Norwegian guidance app



Smestad tunnel



