



Statens vegvesen
Norwegian Public Roads
Administration

National Transport Plan 2014–2023

Building a modern transport system

14/11/2014

Jan Fredrik Lund, Head of strategic planning, Norwegian Public Roads Administration



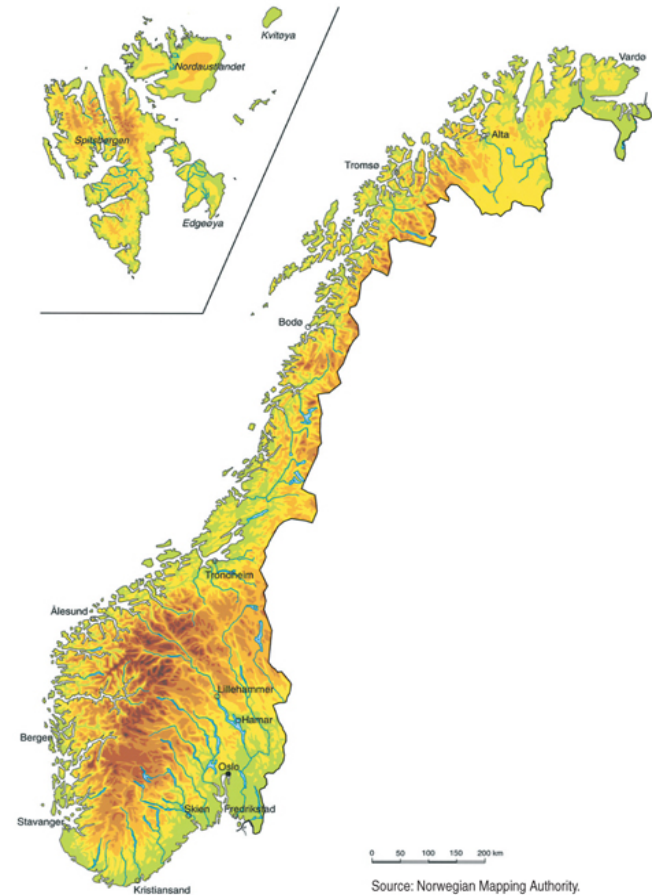
Photo: Knut Opeide



Norway

- System of government:
 - Constitutional monarchy
 - Parliamentary democracy
- 19 Counties
- 428 Municipalities
- Area (mainland):
323 782 km²
- Population: 5 million

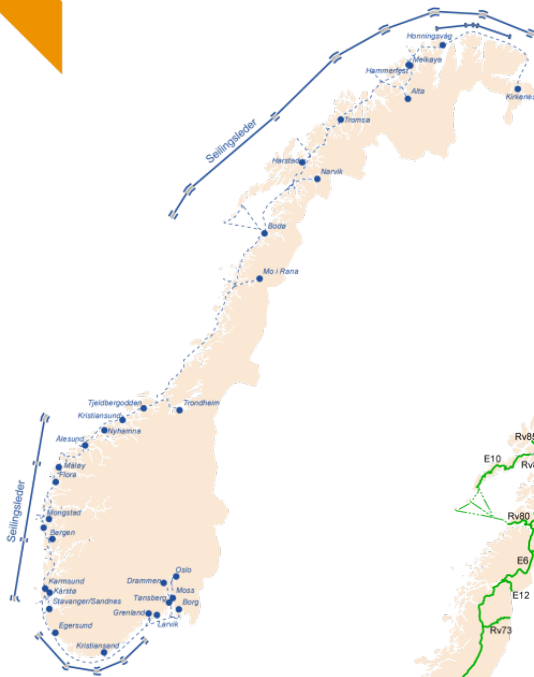
Norway, with Svalbard





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Ports and coastal fairways



Airports



National roads



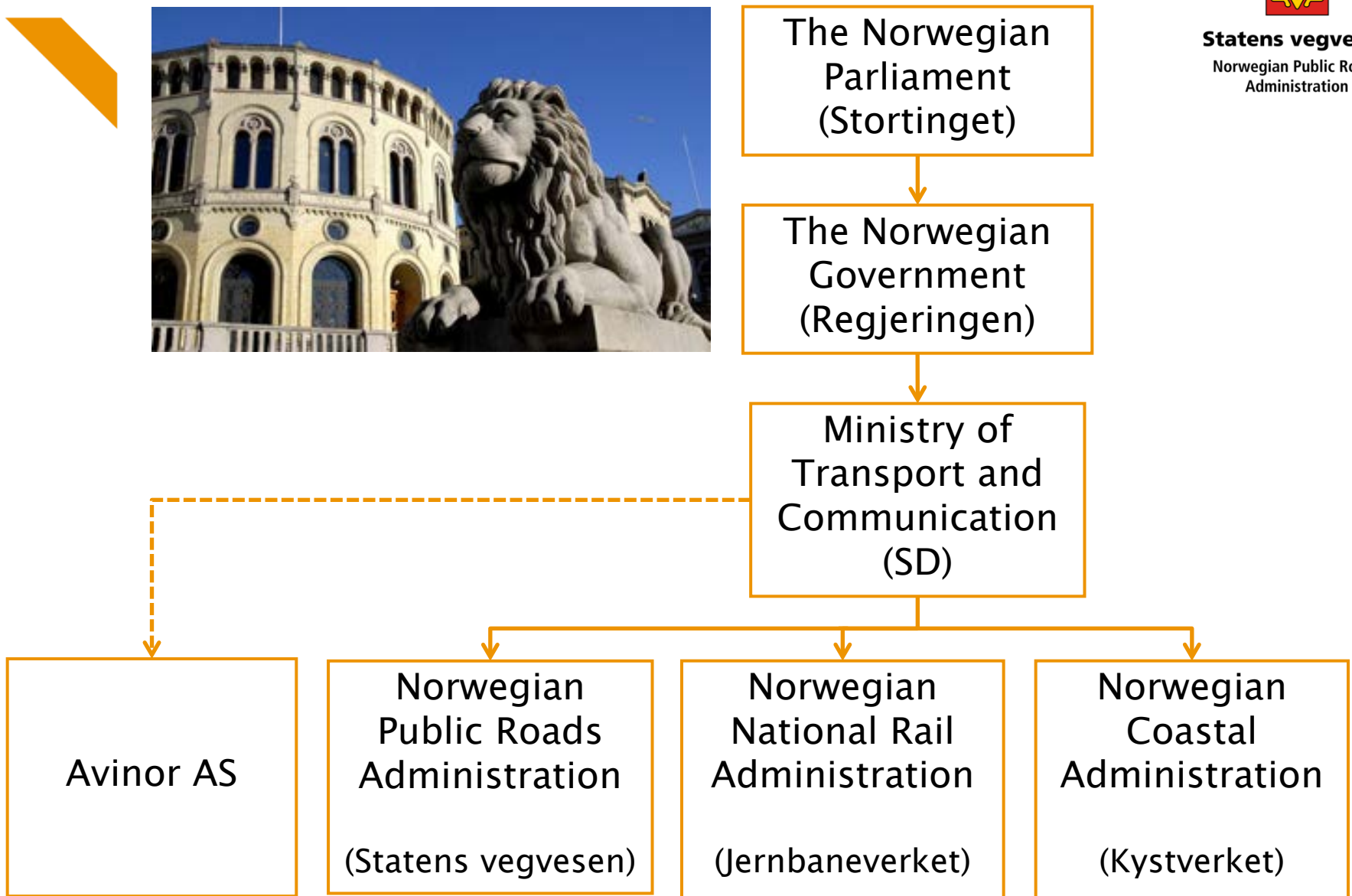
Rail lines





Key figures

Public roads, total	93 000	km
National roads	10 500	km
County roads	44 000	km
Municipal roads	38 500	km
Road tunnels	1 000	tunnels
Road bridges	18 200	bridges
Rail network	4 000	km
Airports	50	airports
National ports	30	ports

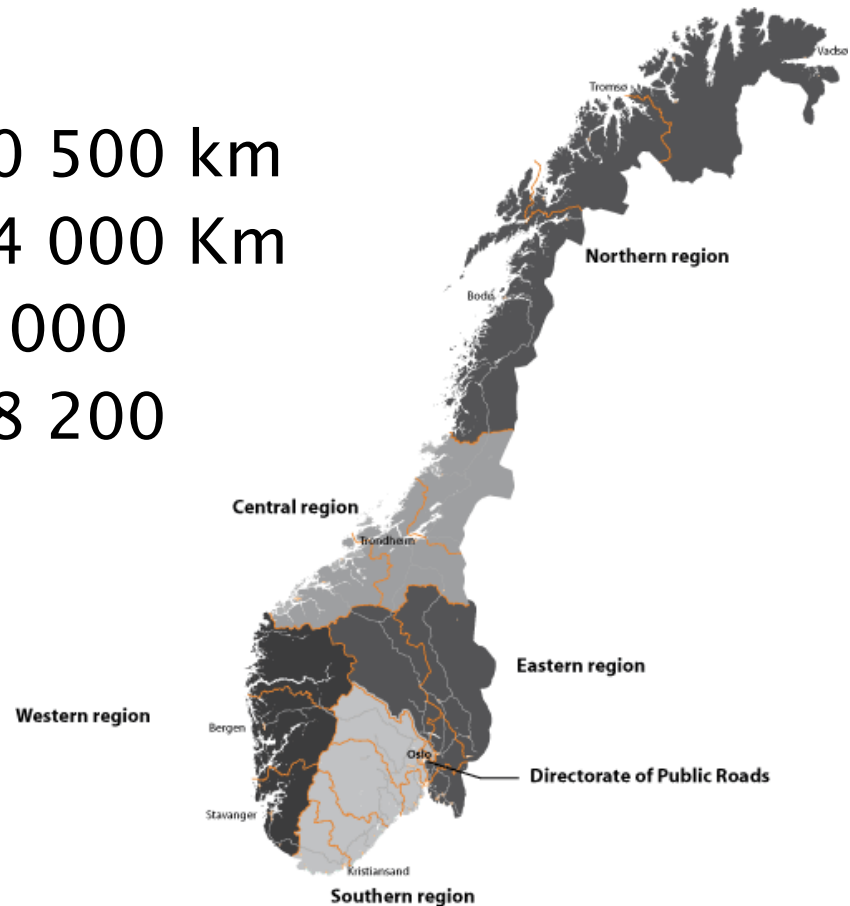




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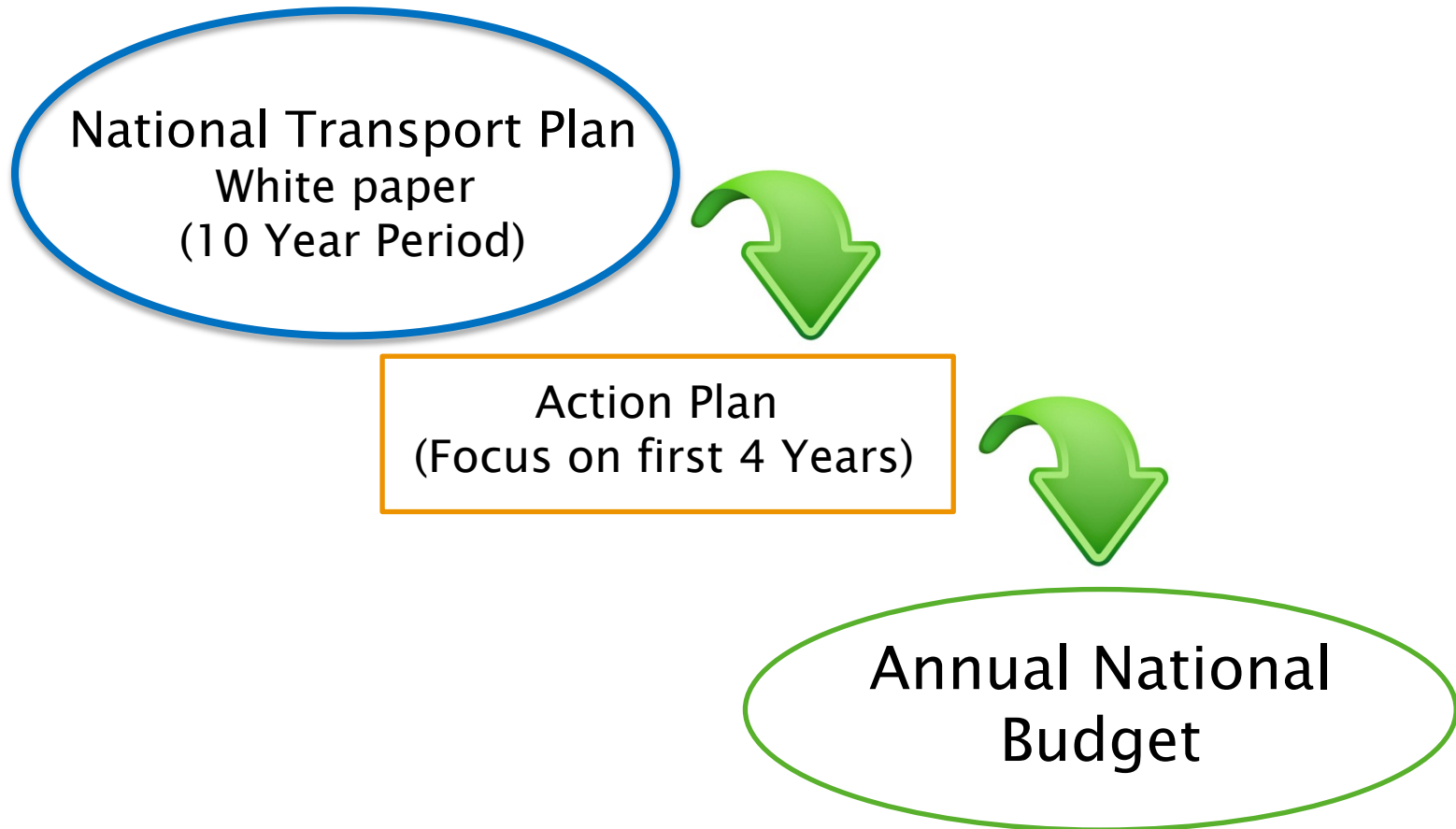
Five regions

- National roads: 10 500 km
- County roads: 44 000 Km
- Tunnels: 1 000
- Bridges: 18 200





Official Steering Documents





National goal for transport

- **GOAL:**
 - To provide an efficient, accessible, safe and environmentally friendly transport system that covers society's requirements and encourages regional development.
- **MAIN OBJECTIVES:**
 - Traffic flow and regional development
 - Road safety
 - Environment
 - Universal design



Photo: Knut Opeide



Financing

- **Railway system**
 - National funding
- **Roads**
 - National and county funding
 - Toll revenue
- **Airports and harbours**
 - Income and revenue collected
- **Coastal fairways**
 - National funding and revenue collected

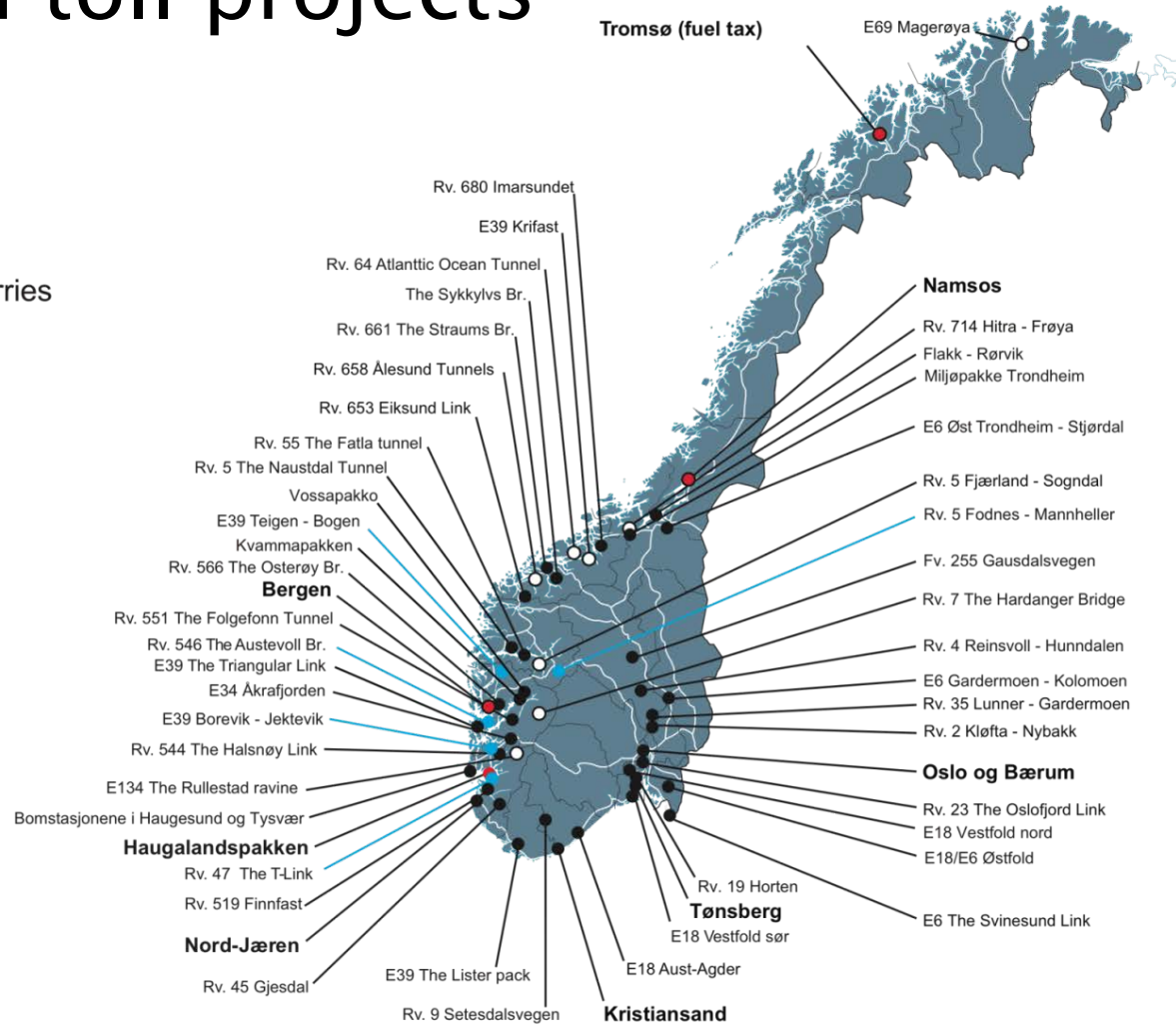


Photo: Knut Opeide



Road toll projects

- City Projects
- Single Projects
- Toll collection on ferries
- AutoPASS tolling
- Open Road Tolling





Major challenges

- Globalisation
- Population growth
- Economic growth
- Traffic safety
- Emissions and climate change

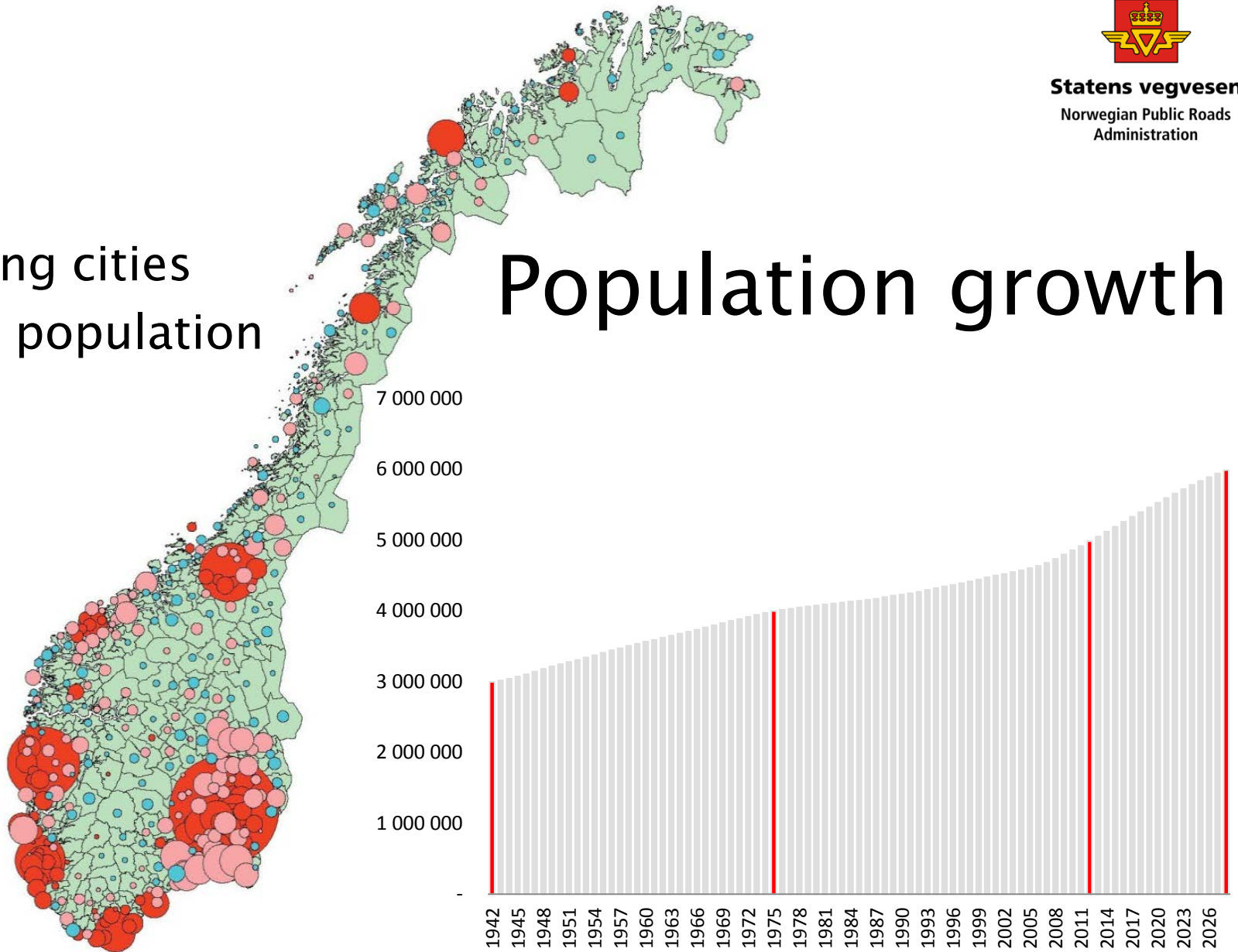


Photo: Colourbox



Growing cities
Aging population

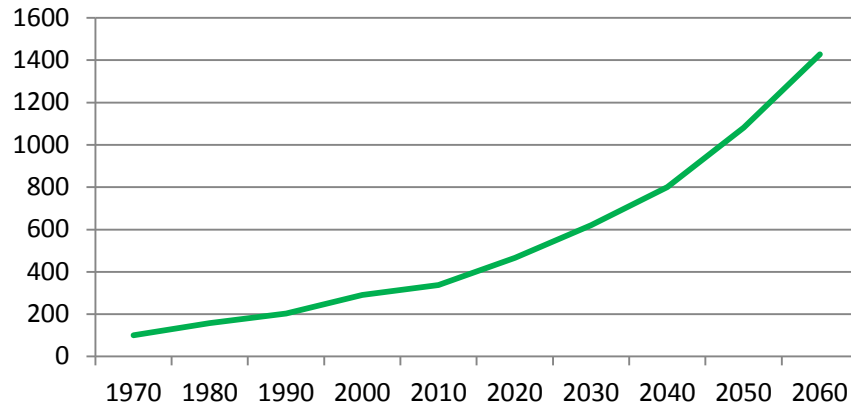
Population growth



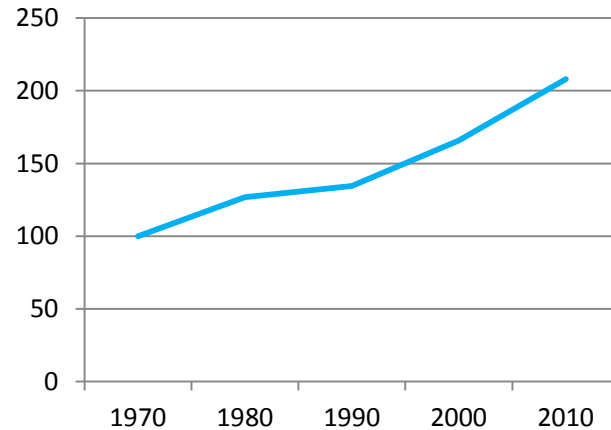


Economic growth

GDP (1970=100)



Real wages (1970=100)





The cities

- Growth must be absorbed by public transport, walking and cycling
- Concentrated use of space
- Restrictions on car use
- Urban packages in the cities
 - binding agreements
 - EUR 2.25 billion + EUR 1.3 billion incentive scheme



Photo: Knut Opeide



Comprehensive Urban Environment Agreements

Increased funding in urban areas

- Funds for Urban Environment Agreements
 - Environment agreements scheme: Euro 2.20 billion (2014–2023)
 - Reward scheme: Euro 1.15 billion (2014–2023)
- Funds for bicycle routes (whole country): 1.03 billion (2014–2023)
- In addition: funds for large investments in roads and railway





Comprehensive urban environment agreements

Investment grants for public transport in the counties

- To high-quality public transport projects with large capacity in Oslo, Bergen, Trondheim and Stavanger
 - Fornebu metro line in Oslo
 - Bergen Light Rail
 - Super Bus solution in Trondheim
 - Bus Rapid Transit System in Stavanger





Current urban packages with car tolling schemes

Car tolling schemes

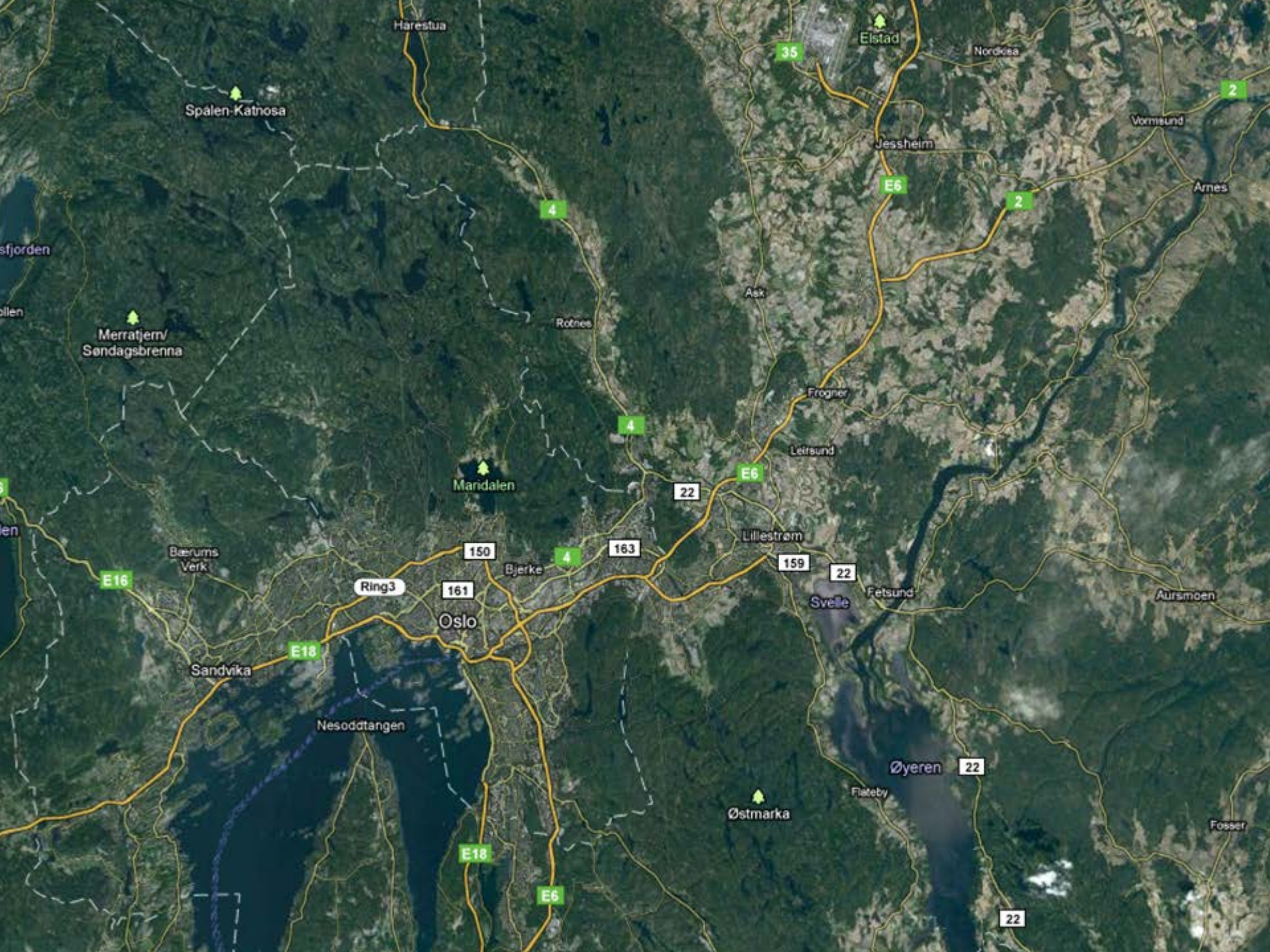
Current urban packages:

- Oslo Package 3
- Environment Package Trondheim
- Jæren Package (Stavanger)
- Bergen program 2
- Kristiansand Package

Planned new packages:

- Skien/Porsgrunn (Grenland)
- Buskerud City
- Fredrikstad/Sarpsborg







Tog Railway



T-bane Metro



Trikk Tram

Forklaring Legend



ns vegvesen
gian Public Roads
Iministration

- 300 Oslo S – Hakadal – Jaren
- 400 Asker – Lillestrøm
- 500 Skøyen – Ski
- 440 Drammen – Dal
- 450 Kongsberg – Eidsvoll
- 460 Skøyen – Årnes
- 550 Spikkestad – Moss
- 560 Skøyen – Mysen

- 1 Frognerseteren – Helstyr
- 2 Østerås – Ellingsrudåsen
- 3 Sognsvann – Mortensrud
- 4 Bergkrystallen – Ringen » 4
- 5 Storo – Vestli
- 6 Bekkestua – Ringen » 4

- 11 Welhavens gate – Kjelsås
- 12 Majorstuen – Disen
- 13 Jar – Grefsen
- 17 Rikshospitalet – Grefsen
- 18 Rikshospitalet – Holttet
- 19 Majorstuen – Ljabru

- ▶ Holdeplass bare i pilens retning
Stop in direction of arrow only
- 12 Endeholdeplass bare til bestemte tider
Final stop at certain times only
- Overgangsmulighet Tog / T-bane / Trikk
Interchange option railway / metro / tram
- ✈ Flytogsstasjon
Airport Express Train station



Utgitt 2012-06 © Truls Lange, Omlast 1997-2012

Ruter#



Oslo Package 3

Toll cordons and price

Price NOK 15.50
or appr. 1,9 €

Motorists are
charged only one
direction - driving
towards the inner
city



Price NOK 31 or
appr. 3,85 €

Heavy vehicle 3
times normal price

Free charging if:

- Crossing same toll cordon within 1 hour
- Crossing more than 60 times/month



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Fully automated in 2008

AutoPASS account entitles to cross at all toll roads in Norway marked AutoPASS and EasyGo crossings at the Øresund and Storebælt bridges in Denmark and a couple of German ferry routes



Account holder get 10% discount. Tag in the Car (Autopass)



Before 2008: manned and automatic toll plaza



After 2008: fully automatic toll plaza

Non-account holder: The system identify the car by optical character recognition (OCR)



Oslo Package 3 in short

- A financing scheme for the expansion of roads and public transportation infrastructure in Oslo and Akershus between 2008 and 2032
- The overall budget (2008-2032) is approx. NOK 90 billion (€11-12 billion), and is financed from toll charges (65 percent) in addition to central and local governments funding.
- In addition, significant investments and upgrades of railway infrastructure in the region, financed by the central government.

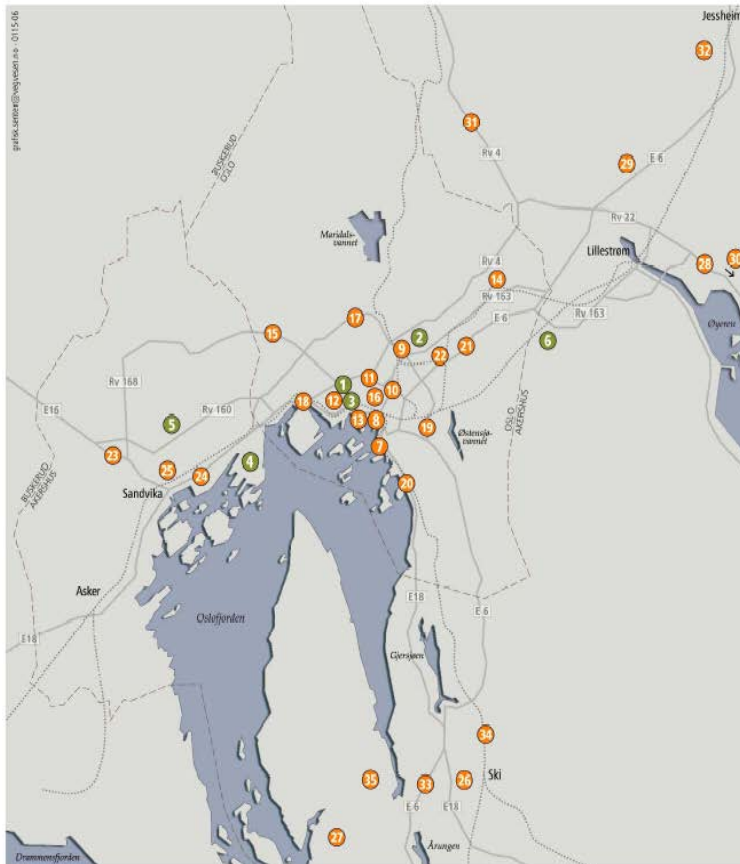


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"Local proposal" – May 2006 (i.e. Oslo package 3)



Kollektiv

- 1 T-banen: Tiltak i Fellestunnelen - sikkerhet, økt kapasitet
- 2 T-banen: Haslesvingen med Løren stasjon
- 3 T-banen: Homansbyen stasjon
- 4 Fornebubane
- 5 Kolsåsbanen i Akershus
- 6 Baneforlengelse Ellingsrud - A-hus

Veg

- 7 Havnetilknytning Sydhavna
- 8 E18 Bjørvikatunnelen
- 9 Rv 150 Ulven - Sinsen
- 10 Rv 4 Carl Berners plass
- 11 Rv 161 Ring 2, Carl Berners plass - Blindernveien
- 12 Rv 168 Bogstadveien
- 13 E18 Festningstunnelen - teknisk utstyr
- 14 Rv 4 Fossumdiagonalen
- 15 Rv 160 Røatunnelen
- 16 Rv 4 Bjørvika - Økern
- 17 Rv 150 Nydalskrysset
- 18 E18 Framnes - Fornebu
- 19 E6 Manglerudtunnelen
- 20 E18 Mosseveitunnelen
- 21 E6 Miljølokk i Groruddalen
- 22 Alnabru, nytt kjøresystem
- 23 E16 Wøyen - Bjørum
- 24 E18 Vestkorridoren inkludert E16 Sandvika
- 25 Rv 164 Løkkeåstunnelen i Sandvika
- 26 Rv 154 Nordbyveien/Ås grense - Jernbaneveien
- 27 Rv 152 Ottarsrud - Gisleirud
- 28 Rv 22 Lillestrøm - Fetsund
- 29 Rv 120 Avlastningsvei utenom Skedsmokorset
- 30 Rv 169/rv 22 Fjellsrud - Stensrud
- 31 Rv 4 Nittedal
- 32 Tiltak Øvre Romerike
- 33 E6 Assurtjern - Vinterbro
- 34 Rv 152 i Follo
- 35 Rv 156 Bråtan - Tusse (Nesodden)

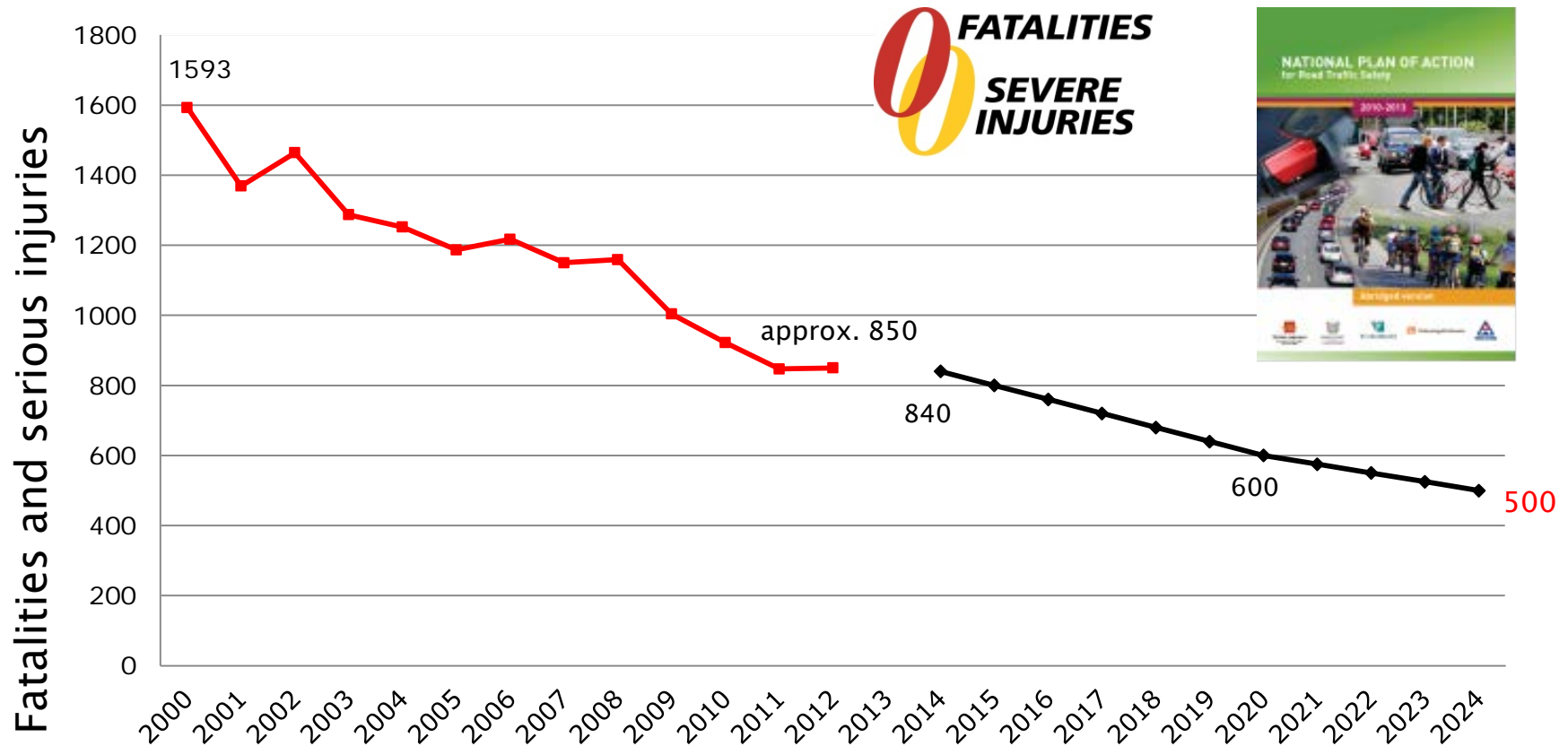
- 20 years of cordon tolls, no periodic subscriptions, a new cordon toll west of the city
- No time differentiation of toll charges
- Significant funds made available for operations of public transport
- But, basically:

A list of projects in a certain order



Traffic safety

– On our way to Vision Zero



The number of fatalities and serious injuries should not exceed 500 by 2024



National Transport Plan 2014–2023

An Expanding Market

- Road sector + 49 %
- Rail sector + 49 %
- Coastal sector + 55 %

– compared to NTP 2010–2019



Illustration: Statens vegvesen



Action Plan 2014–2017

Investments and main projects

- Investments in the national road network: 9 billion euros
- Starting or continuing 34 major projects
- Finishing 30 major projects
- Securing 52 landslide-prone areas

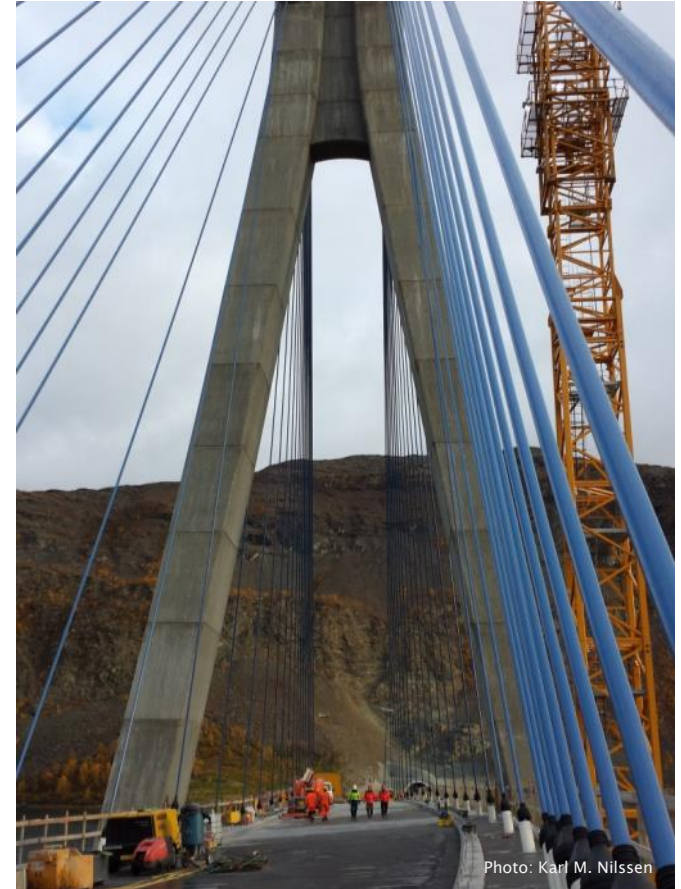


Photo: Karl M. Nilssen



Investments and main projects

Prioritized projects:

- E6 Svinesund – Kirkenes
- E18 Ørje – Kristiansand
- E16 Oslo – Bergen
- E39 Kristiansand – Trondheim
- E134 Drammen – Haugesund



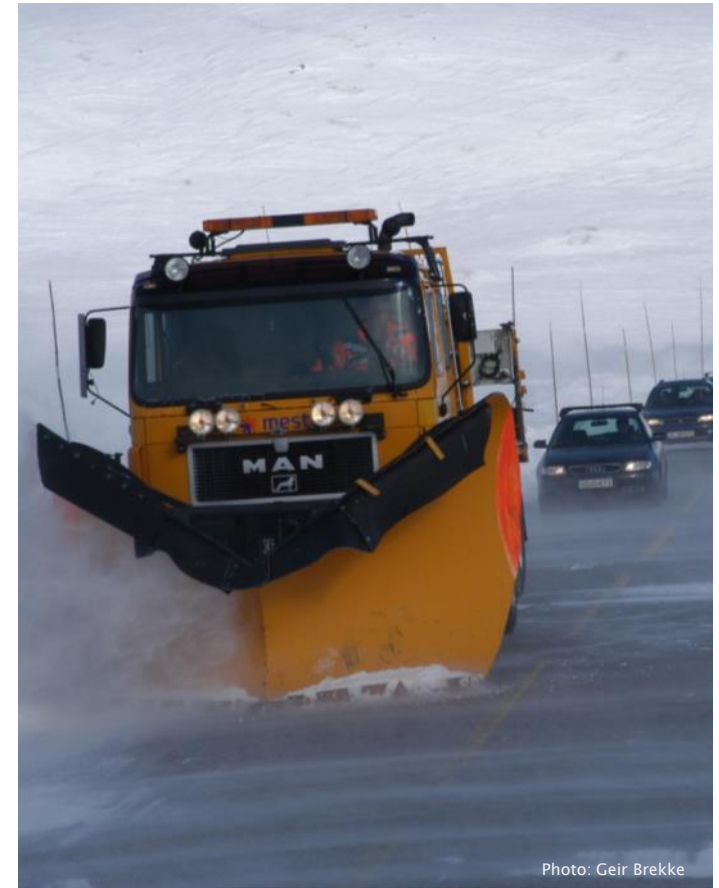
Illustration: Statens vegvesen



Action Plan 2014–2017

Operating and maintenance

- 400 million euros in annual operating costs
- Over 1 000 million euros to maintenance in order to stop the decay of the road network
- Upgrading 200 tunnels to meet safety regulations





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Thank you for your attention



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