



Jernbane-
direktoratet

Concept research programme

Session: Digitalisation and Emerging Technologies

Presentation: Innovation in the Railway Sector by Pål Midtlien Danielsen

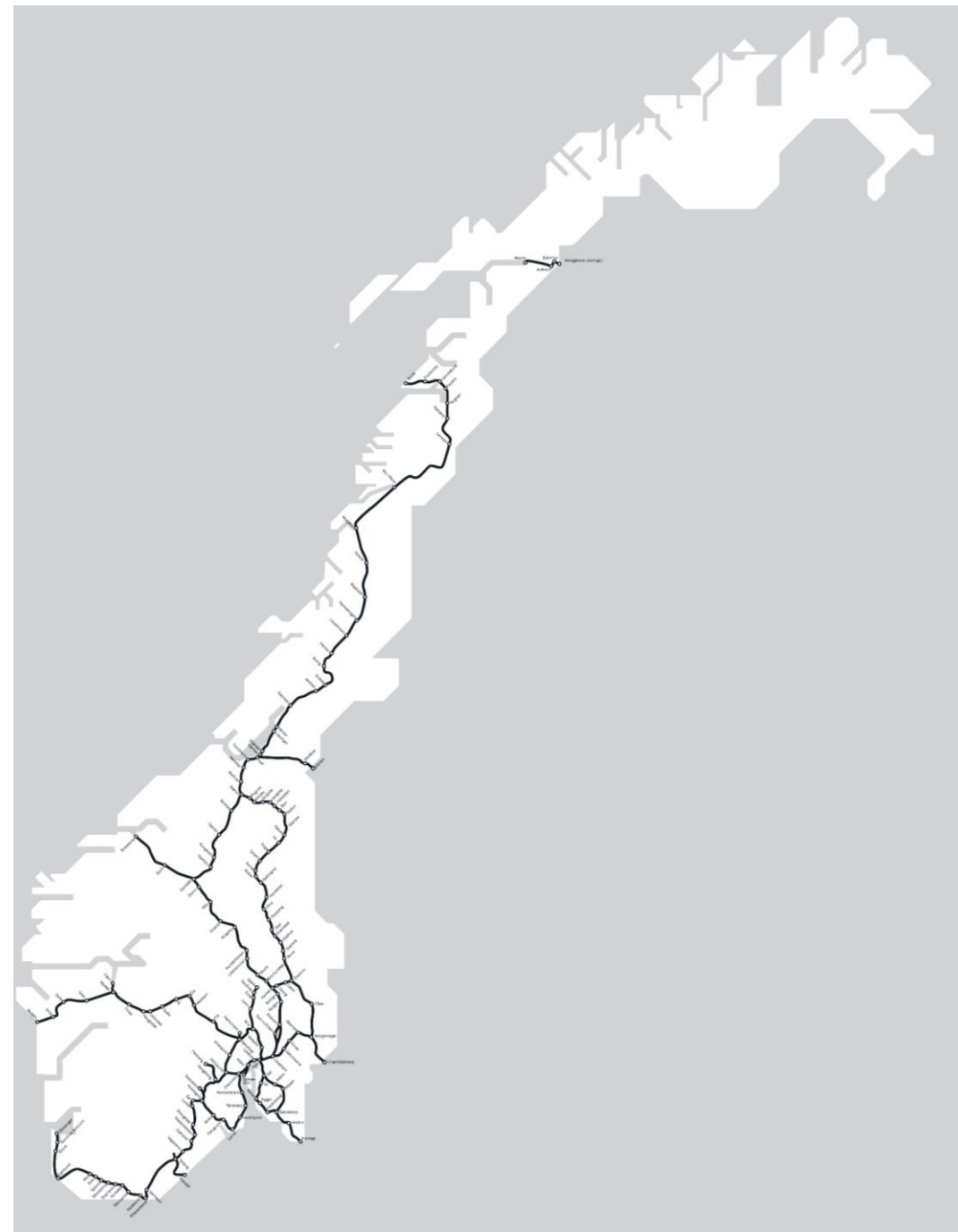
23rd of September 2022



Key figures for the Norwegian rail network (2020)

Route-km	Km double track	Bridges
4 196 (Electrified 2 459)	296	2638

Tunnels	Level crossings	Stations
740	3 409	334



Innovation gives society more rail for
the money!

National Transport Plan (2022–2033)

AN EFFICIENT, ENVIRONMENTAL-FRIENDLY AND
SAFE TRANSPORT SYSTEM IN 2050



More value
for money



Efficient use of
new technologies



Contribute to
Norway's fulfilment
of its climate and
environmental
goals



Vision Zero for road
traffic fatalities and
serious injuries

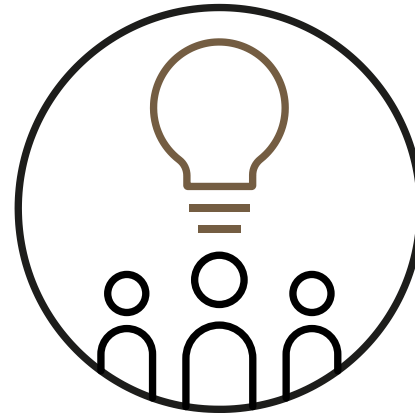


Make travelling
easier and increase
the competitive-
ness of business
and industry

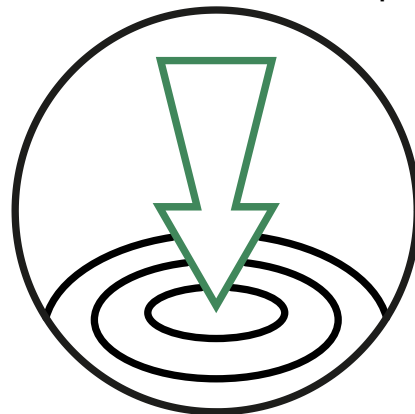
«The Norwegian Railway Directorate shall ensure that the railway sector is operated as efficiently, safely and environment friendly as possible for the good of passengers, freight transport and society in general»

«To initiate, develop and present proposals concerning the development of the railway and public transport system in light of the transport needs identified by the Directorate»

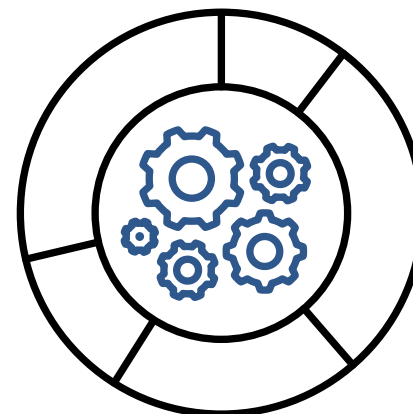
How we work with innovation?



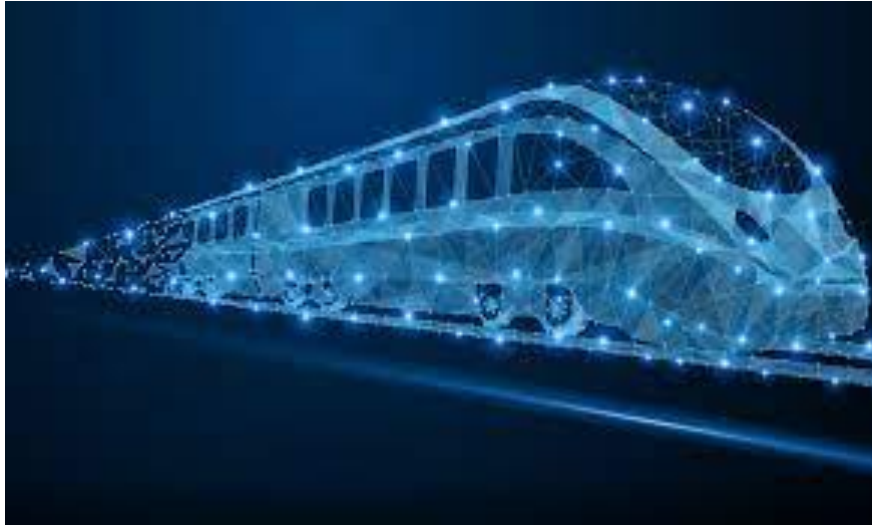
Open innovation



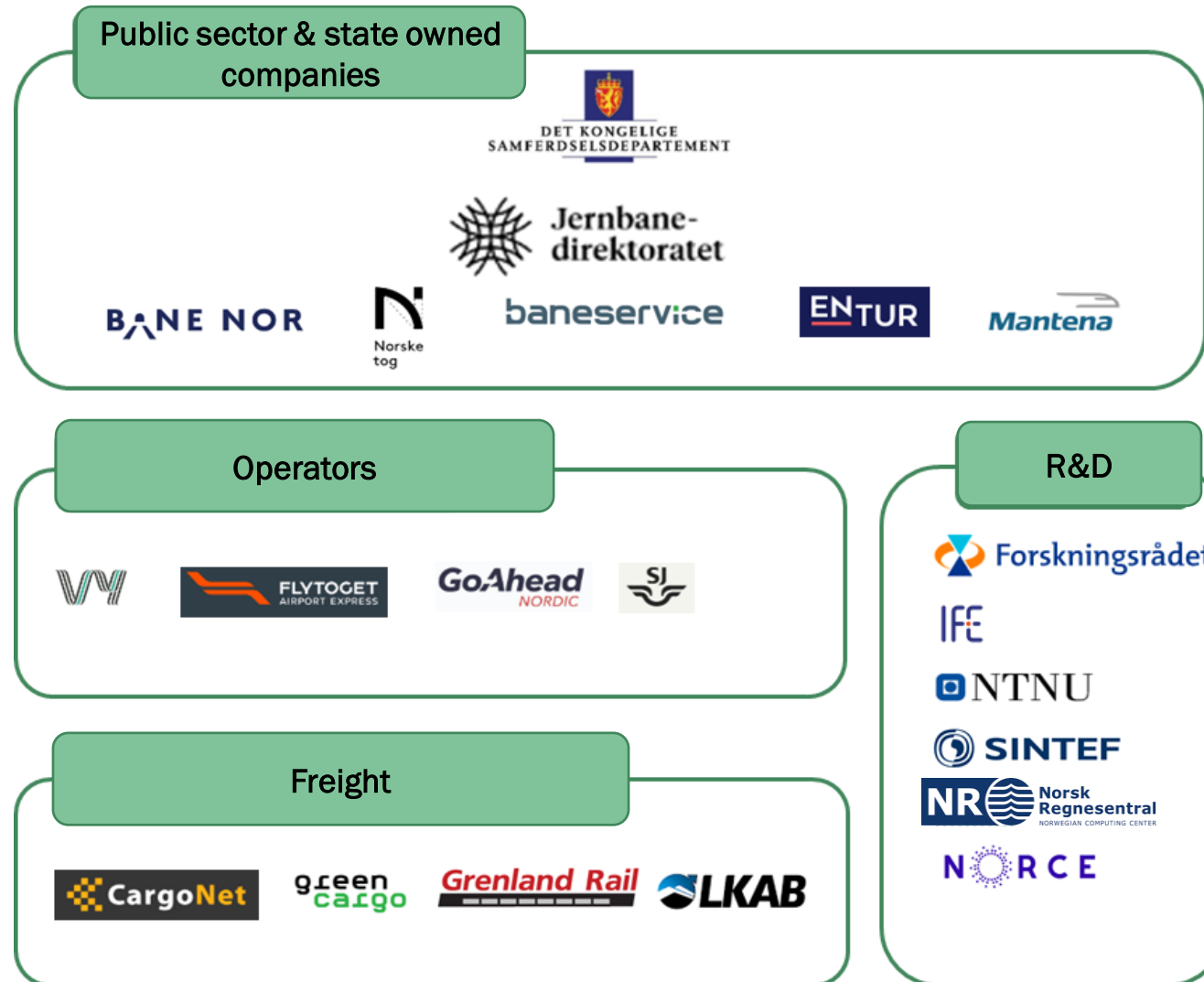
Targeted efforts



Portfolio



The Norwegian Europe's Rail initiative



Europe's Rail Joint Undertaking

- Operators, infrastructure owners/managers, supply industry, public sector
- Large innovation project, three major calls
- Duration 2021 – 2029
- High technological readiness level
- 25 founding member medlemmer



THALES



SIEMENS



ProRail



Jernbane-direktoratet



Strukton Rail



indra

Talgo



Objectives of Europe's Rail



Meeting evolving customer requirements



More sustainable and resilient transport



Reduced costs



Reinforced role for rail in European transport and mobility



Harmonised approach to evolution and greater adaptability



Improved EU rail supply industry competitiveness



Improved performance and capacity

Main topics



Innovation projects 2022-2026



- More than 200 partners from 14 countries
- 568 millioner euro

Thank you!

