

The SHIFT Nordic TIMES model



Energy Modelling Lab

DEMOCRATIC ENERGY TRANSITION

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The SHIFT project

(<https://www.nordicenergy.org/flagship/project-shift/>)

- Transforming transport is a key energy challenge in the Nordic region to achieve the ambitious climate targets set by the Nordic governments. By developing and applying tools that integrate fuel options, modal shifts, business models and consumer behaviour into scenario modelling and in-depth analysis covering urban passenger transport, long-haul freight and city logistics the Shift project informs smarter Nordic transport and energy policy.
- Besides strengthening Nordic energy systems modelling and providing updated scenario analysis for the Nordic transport sector, Shift examines linkages between technological and organisational innovations that can decarbonise the road transport system. In addition Shift assesses drivers, barriers and effects of transport modal shifts and analyses effective design of transport related policy instruments. Shift includes assessments on the Nordic level as well as policy relevant local Nordic case studies highlighting opportunities and challenges for the transition of the transport sector.



Challenge in replacing fossil fuels for transport (Denmark, Norway, Sweden)

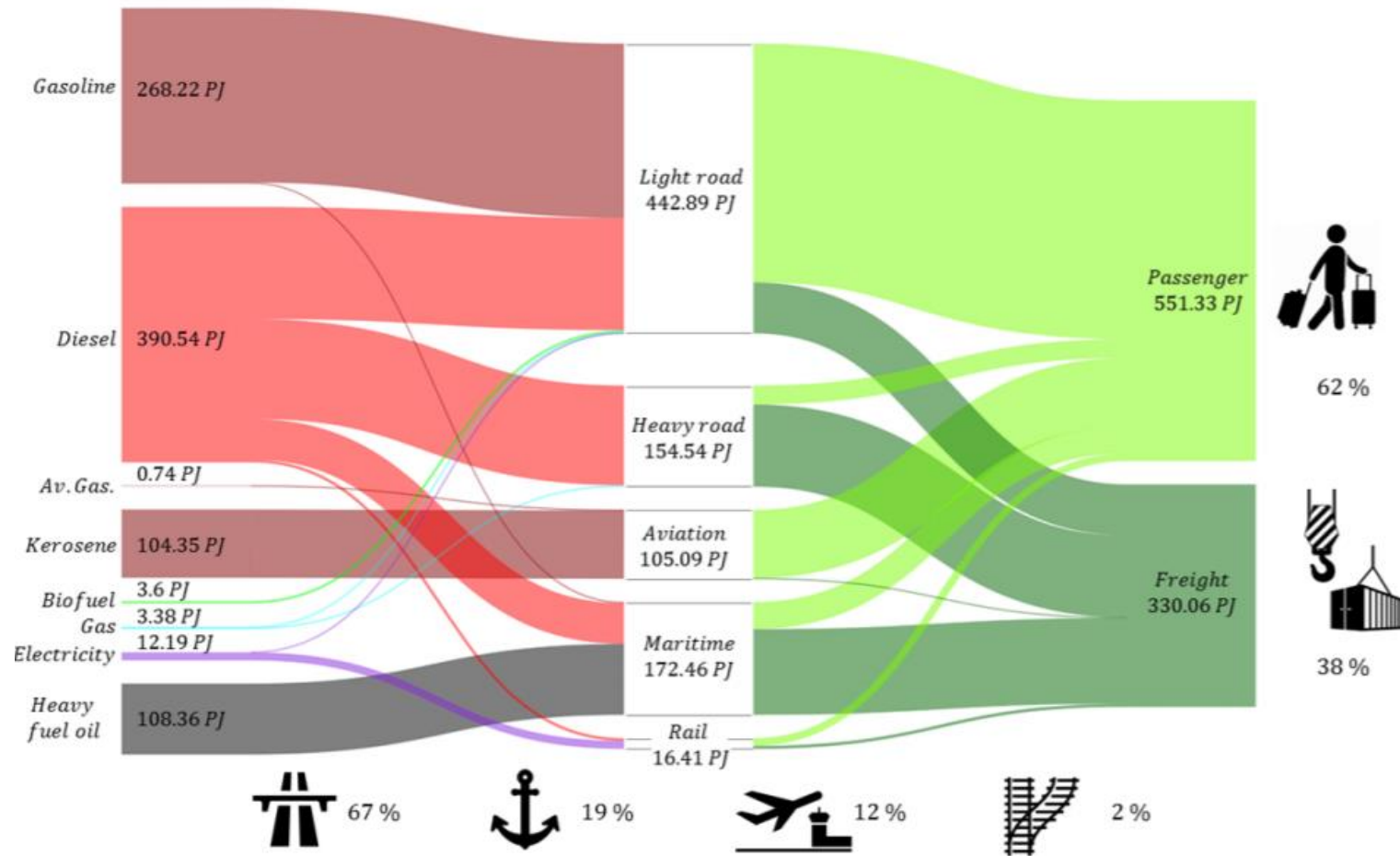


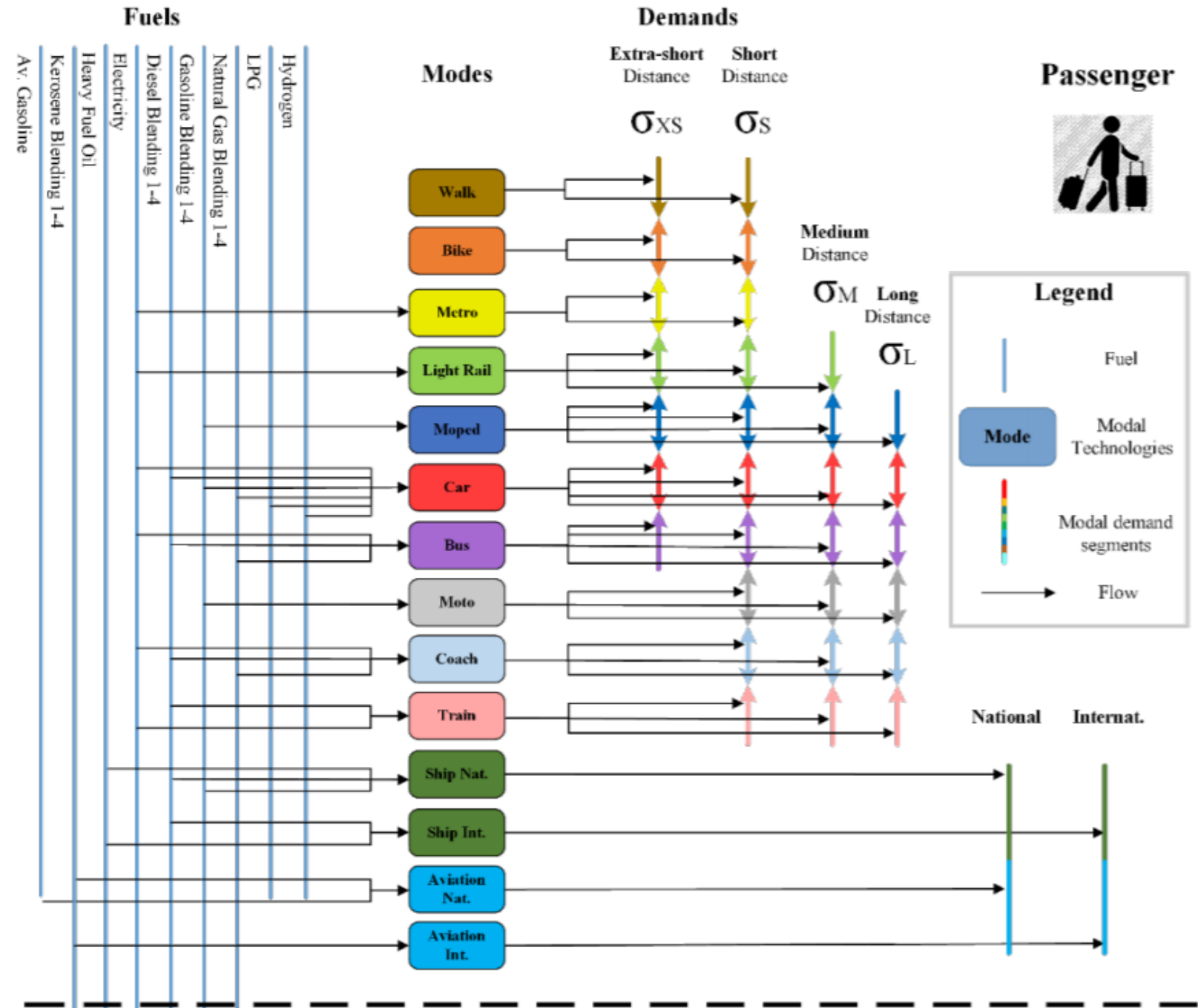
Figure 1. Final energy use and energy flows in the Scandinavian transport sector in 2010. Including international aviation and shipping. Source: (Salvucci, 2019a).

SHIFT TIMES-Nordic

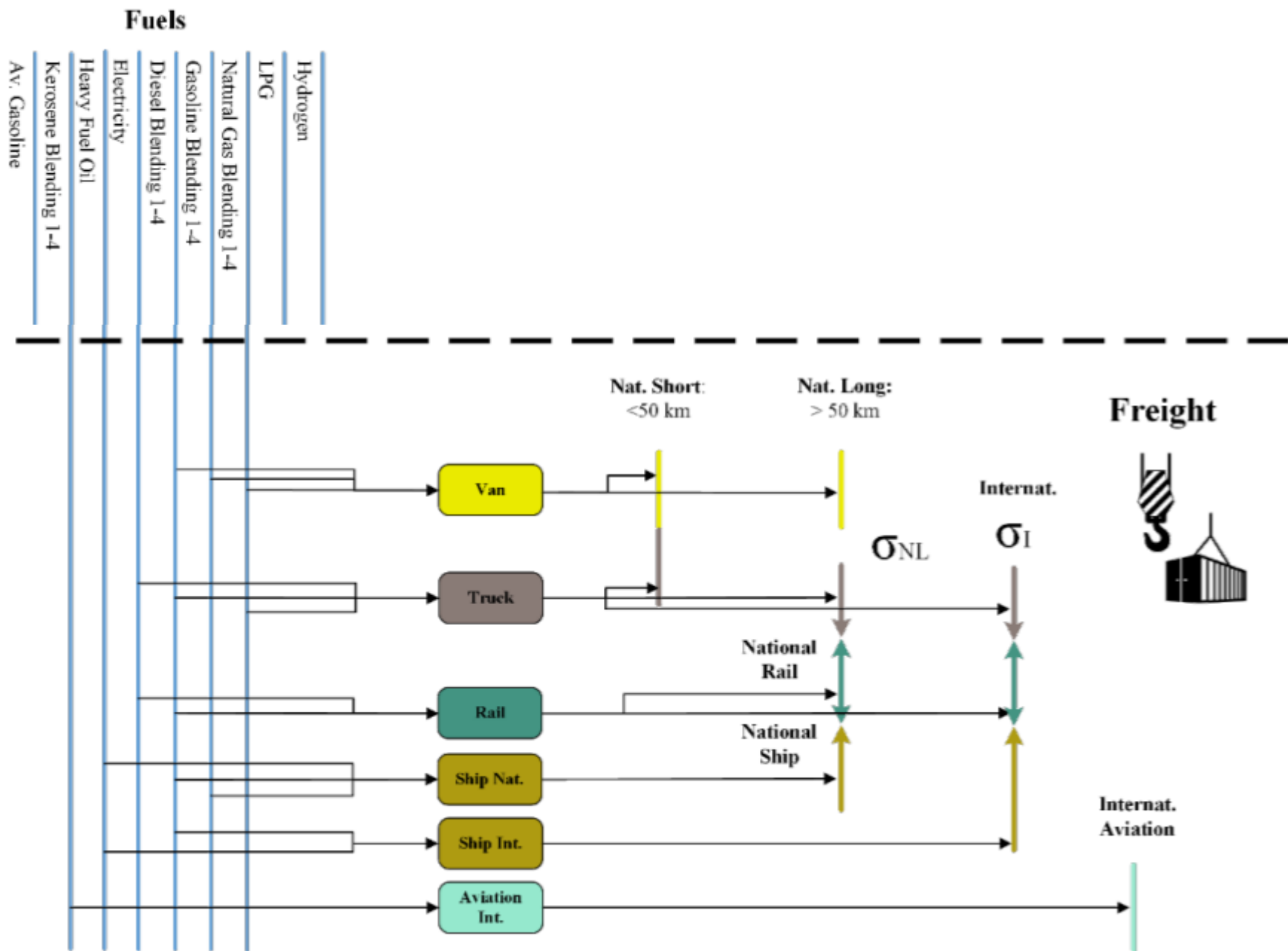
- Includes Denmark, Norway and Sweden
- All sectors
- Special focus on transport



Using elastic substitution between transport modes - Passenger



Using elastic substitution between transport modes - Freight



Look at the scenario results from SHIFT

Shift
Sustainable Horizons in Future Transport

About the SHIFT project
Description of scenarios
SHIFT key findings
Find out more

Countries



Scenarios

Tech Focus 

Shift & Avoid 

Scenario difference
(red minus green)

 Nordic Energy Research

Main results Transport sector

