



Norwegian University of
Science and Technology

Pathways to sustainable mobility

Balancing social, technical, and environmental aspects during the transition

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part of:

- the S-MOB PhD cluster.
- FME / NTRANS on energy transition.

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Research Snapshot



Scope and Boundary

- Norway 
- All transport modes
- All energy carriers
- Horizon 2050
- Methods: System Dynamics Modeling; Optimization
- Calibration: Their inequality statistics



Focus

- The focus of research will be on the transport sector and its interaction with the energy system and other sectors in the broader economy.



Main Contribution

- A sound, model-based perspective on transition to low-carbon mobility, accounting for behavioral and political factors



Main Research Questions

- What are the feasible transition pathways for decarbonization of the transport sector?
- How do developments in the transport sector interact with the increasingly more renewable and decentralized energy system?
- How does the reshaping of the transport sector affect and depend on the broader economy?

Thank you
for
your attention
:)

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