



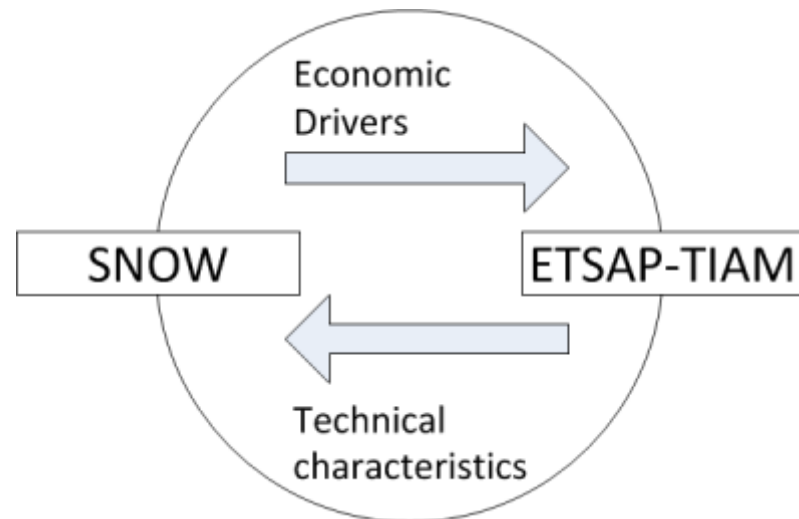
Smart paths scenarios with ETSAP-TIAM

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Project description

- Design of cost-effective Norwegian climate policy to reach a climate neutral 2050
- Address **Smart paths** and costly detours towards a sustainable low-emission society
- A global CGE model, SNOW, and ETSAP-TIAM are used to address future global scenarios



Project description



Funded by the Norwegian Research Council

Project leader: SSB Research Department

Partners: SSB, IFE, BI, +Transdisciplinary Forum

Project period: 2017 - 2020

Scenario description

A - Prius

- Renewable Europe
- Fossil use in developing countries
- CCS
- 3 degree by 2050
- Adaptation strategies

B - Nissan Leaf

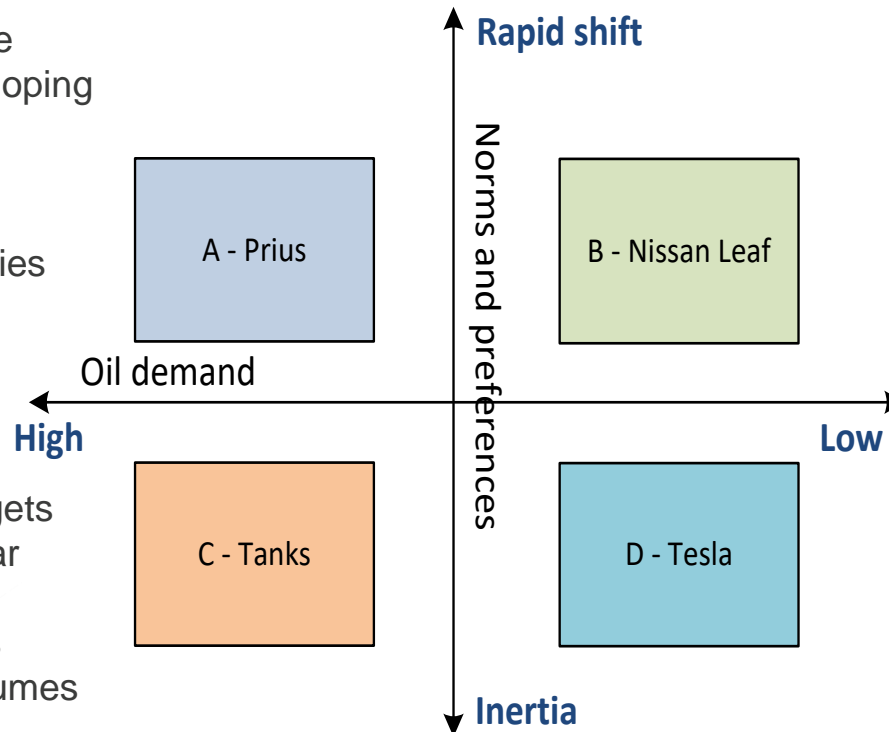
- Less materialistic values
- Prosumers
- Rapid growth in low clean technologies
- Stagnating POP
- < 2 degree by 2050

C - Tanks

- EU reach 2030 targets
- Unstable world - war
- Low R&D
- Limited renewables
- 2050 – Europe resumes ambitious targets

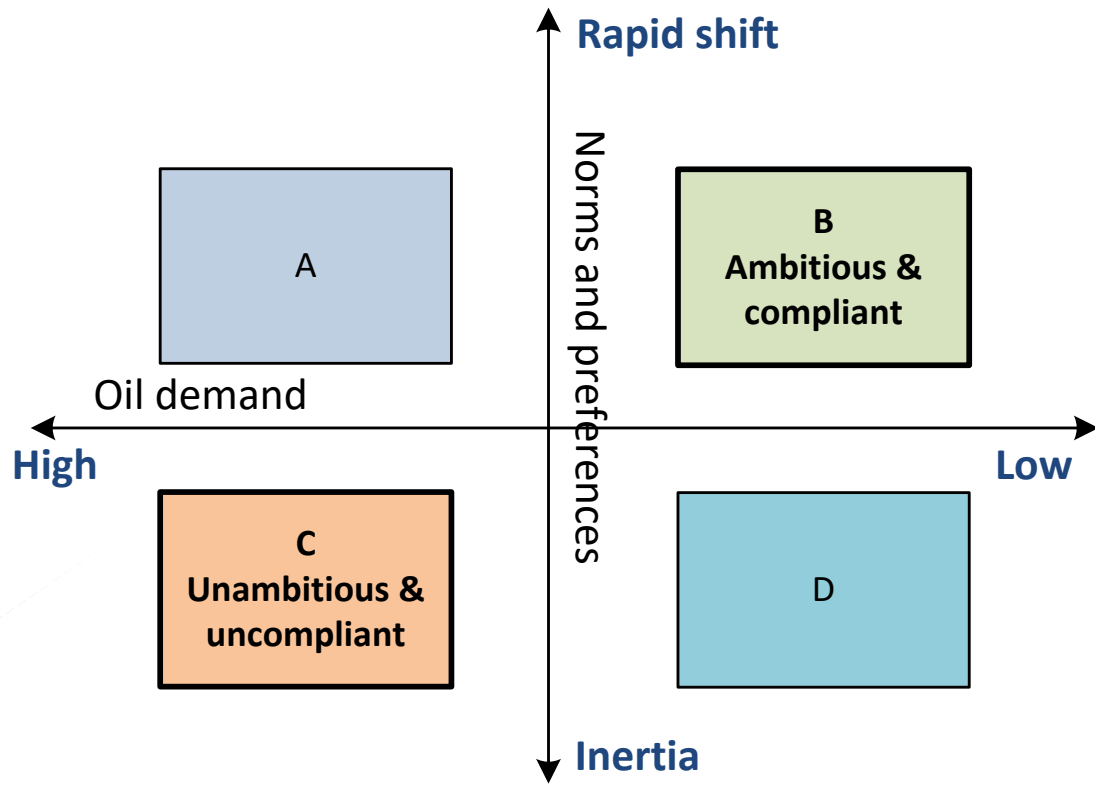
D - Tesla

- Renewable revolution
- Technology in focus
- Digitalisation
- Homogeneous world
- Less bio diversity



Scenario description

Climate treaty cooperation



Scenario description

- The scenarios is translated to model input to ETSAP-TIAM,
 - Demand drivers; GDP, POP, + +
 - Learning curves
 - Constraints on GHG emissions
 - Resource availability
 - Constraints on nuclear and CCS
 - Regional constraints
 - + + +
- Parts of the input to ETSAP-TIAM is provided by SNOW

Questions to the ETSAP community

- Any input, suggestions and/ or advise on:
 - Linkage of ETSAP-TIAM with a global macro-economic model?
 - Modelling of extreme scenarios with ETSAP-TIAM?
- Are the scenarios interesting?
- What can go wrong?
- How can we succeed?



Thank you for the attention
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