

The VTT logo consists of the letters 'VTT' in a bold, white, sans-serif font, centered within a solid black square. The background of the slide is a complex geometric pattern of overlapping triangles in shades of blue, orange, grey, and white, creating a textured, crystalline effect.

VTT

Carbon Neutral Finland 2035 – scenarios and strategies

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IRENA Virtual LTES Forum 26 March 2020**

30/03/2020 VTT – beyond the obvious

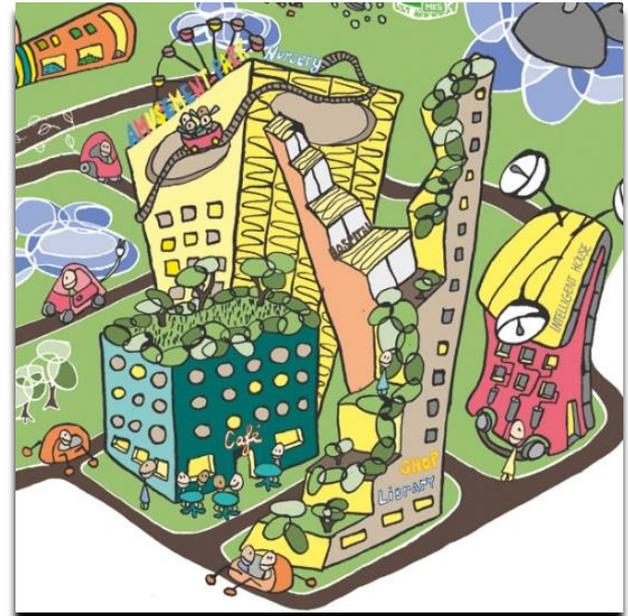
Background

- The Government of Finland has set an ambitious climate target to become carbon neutral by 2035 and carbon negative after that.
- VTT has coordinated multidisciplinary research projects to create alternative narratives and quantitative scenario assessments to research climate and energy targets.



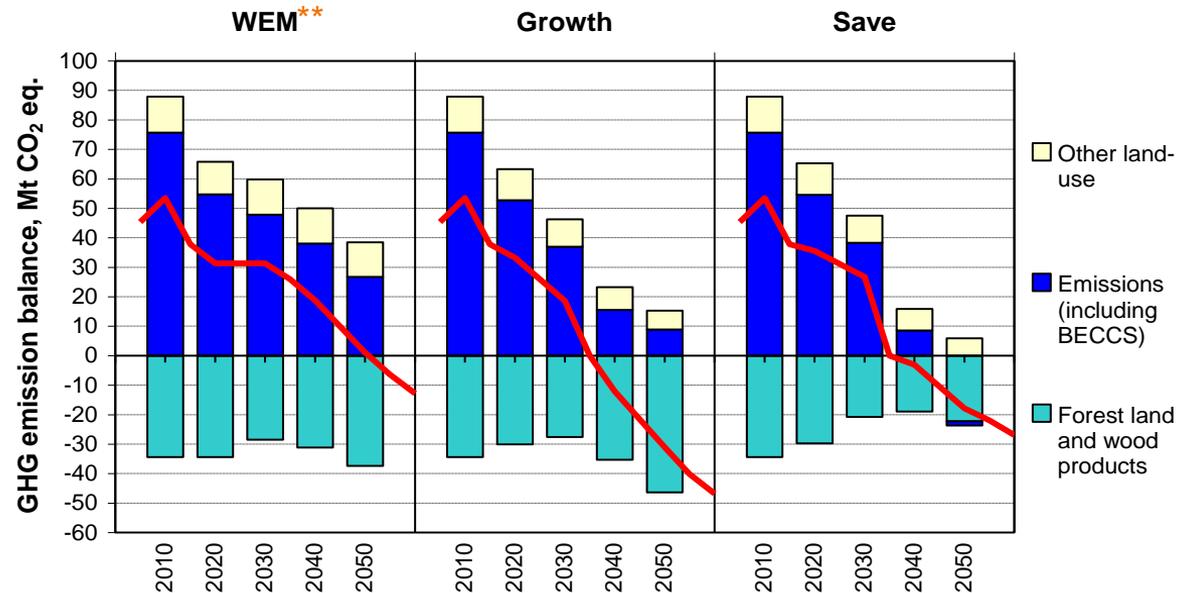
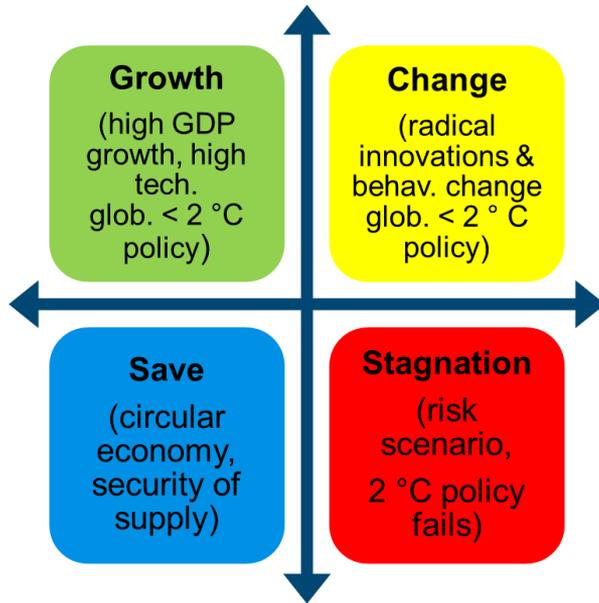
Alternative narratives to visualize different global development paths

- Four alternative storylines with different assumptions on economic structure, community structure, human behaviour, clean technology development, etc. in Finland
 1. Continuous Growth
 2. Save
 3. Change
 4. Stagnation



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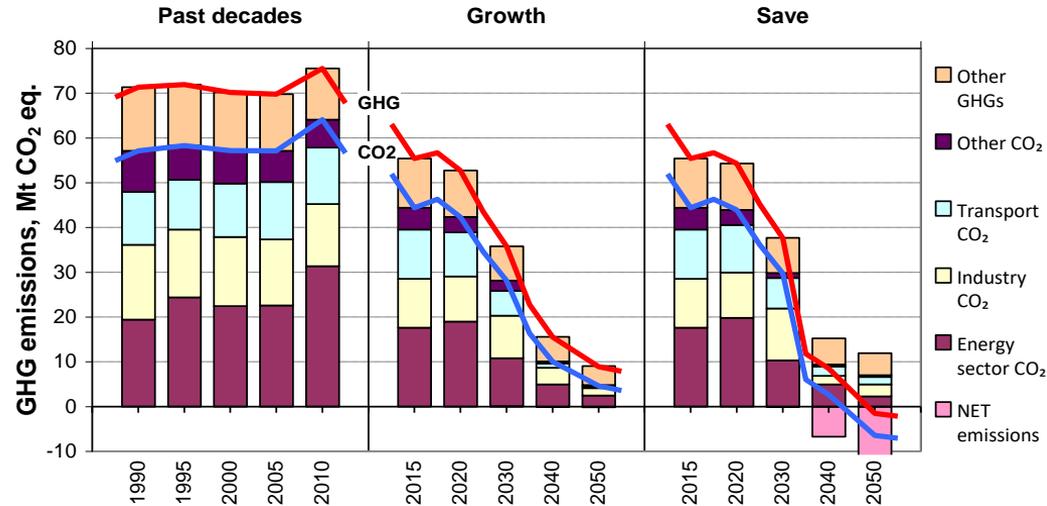
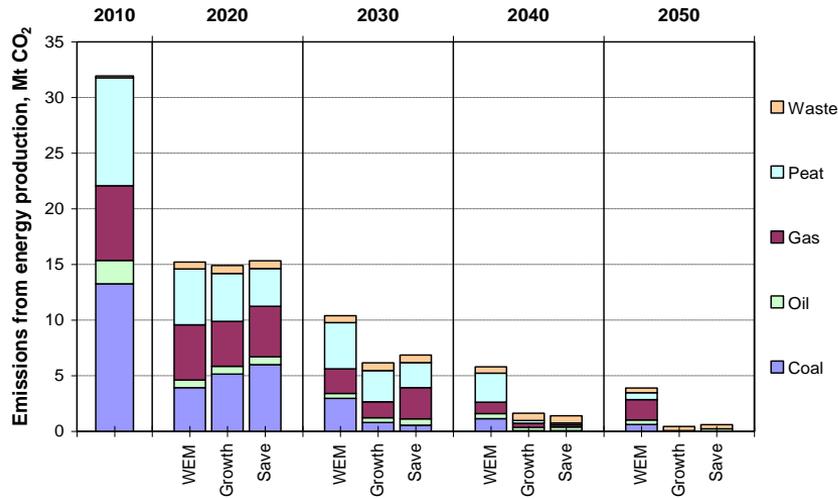
Alternative storylines to study both GHG mitigation and LULUCF*



*Land Use, Land Use Change and Forestry

** With Existing Measures

Using different narratives and storylines helps to better identify potential risks and opportunities



However, time and resources needed could be bottleneck – continuous development work needs to be done all the time

- New national climate and energy strategy in 2020-2021
- Update of Medium Term Climate Policy Plan in 2020-2021
- Update of Climate Law is under development
- Renewal of energy taxation is under development
- Impacts of EU's climate and energy policies (Green Deal, ...)



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the obvious

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