Session 8 (Co-hosted with VTT Technical Research Ltd., Finland)

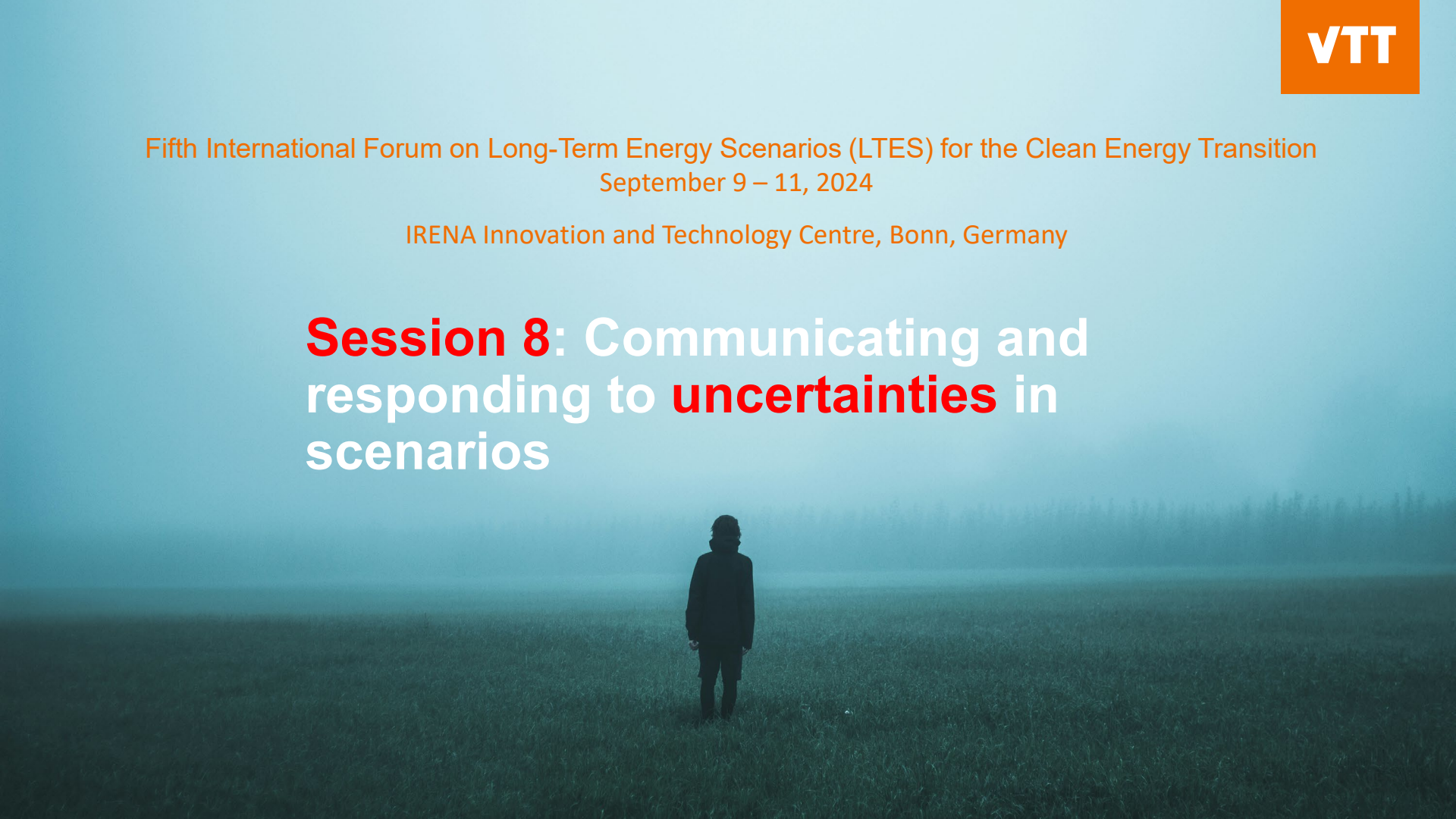
Communicating and responding to uncertainties in scenarios

Wednesday, September 11, 2024

Fifth International Forum on Long-Term Energy Scenarios (LTES) for the Clean Energy Transition
September 9 – 11, 2024

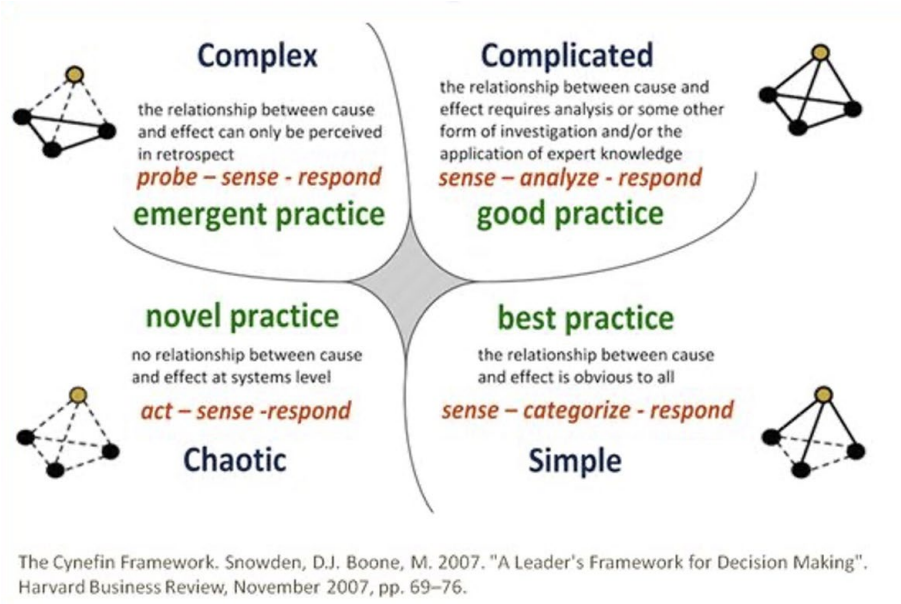
IRENA Innovation and Technology Centre, Bonn, Germany

Session 8: Communicating and responding to uncertainties in scenarios



To which category energy transition should be placed?

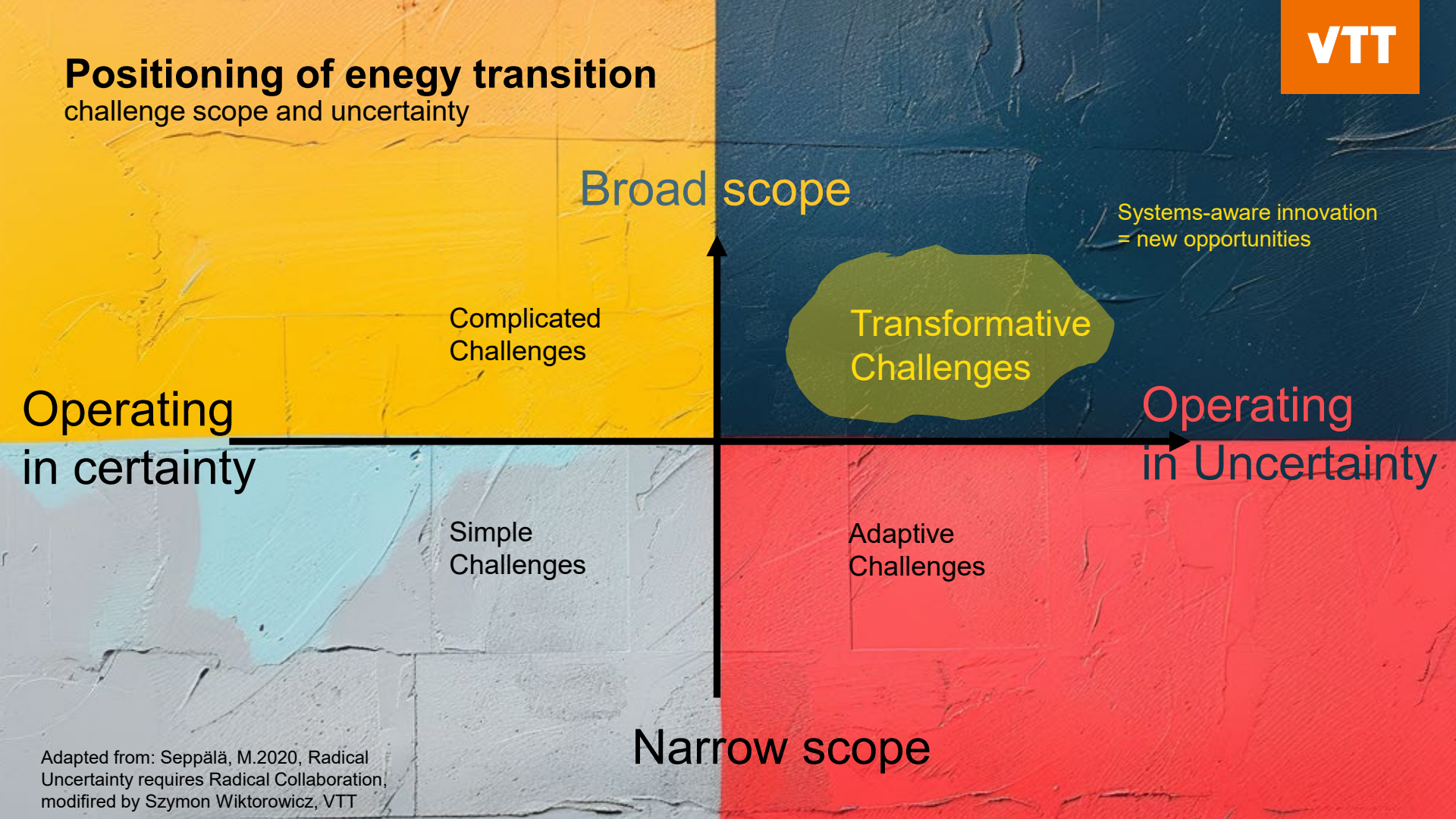
Illustration by Szymon Wiktoworicz, VTT



The Cynefin Framework. Snowden, D.J. Boone, M. 2007. "A Leader's Framework for Decision Making". Harvard Business Review, November 2007, pp. 69–76.

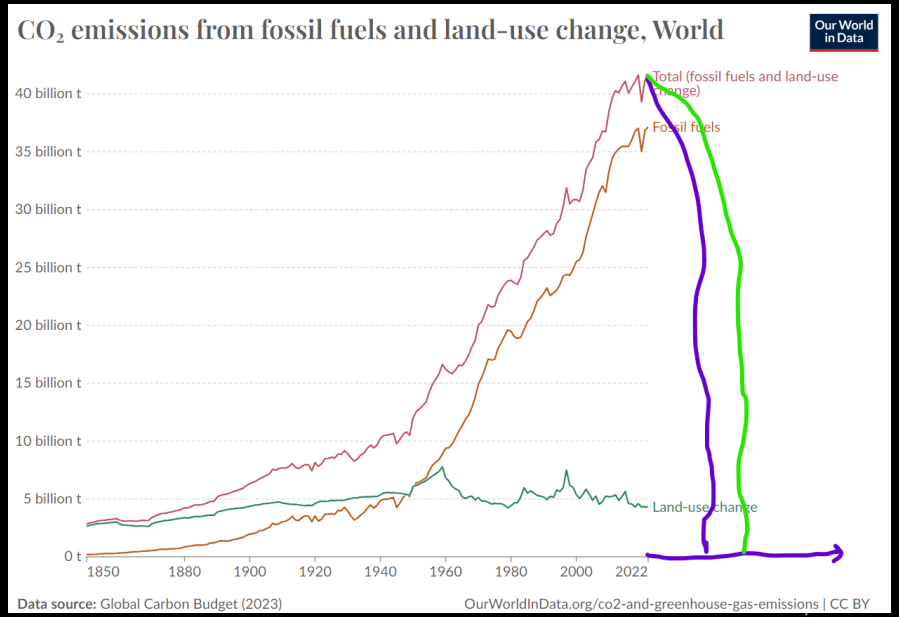
Positioning of enegy transition

challenge scope and uncertainty

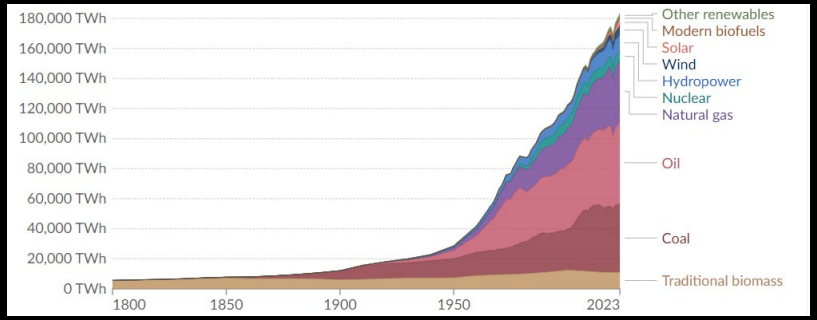


Adapted from: Seppälä, M.2020, Radical Uncertainty requires Radical Collaboration, modifired by Szymon Wiktorowicz, VTT

Energy transition beyond 2020: complex problem with high uncertainty

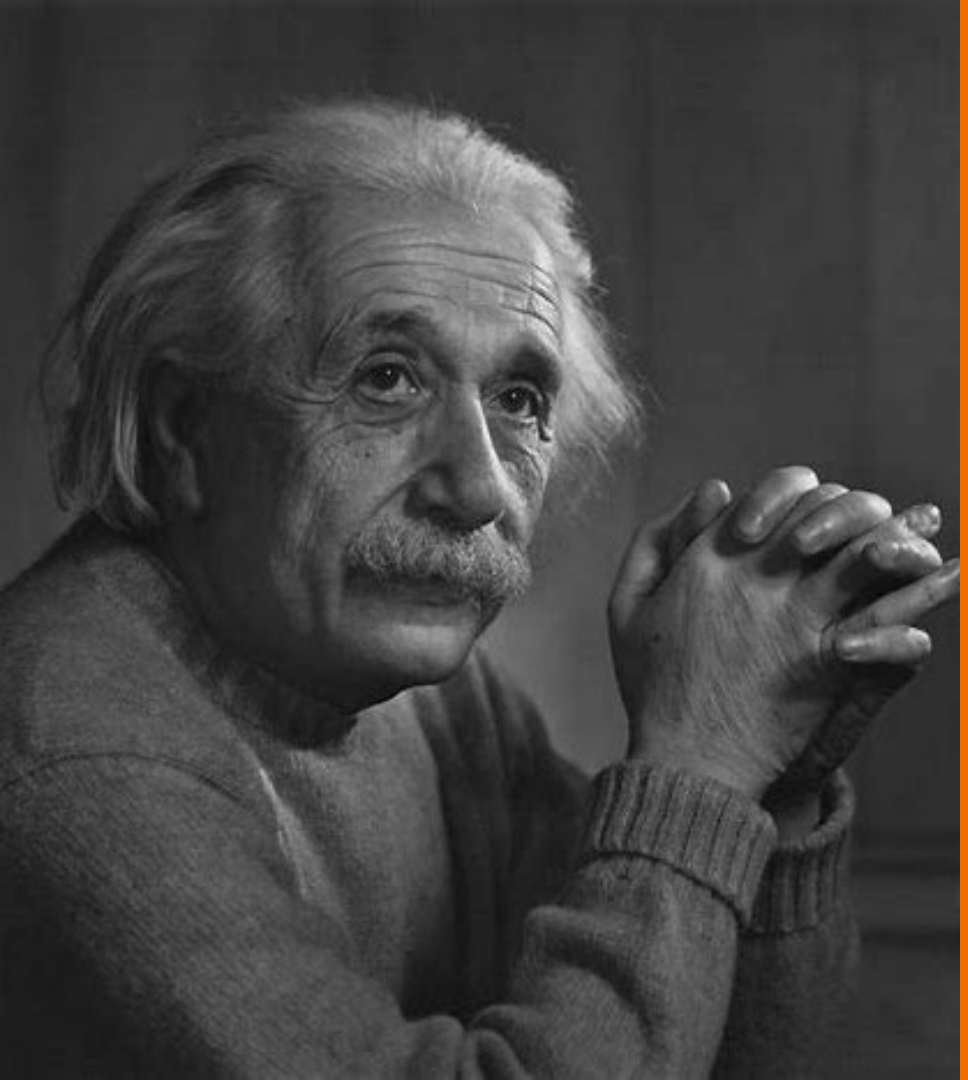


Source: https://ourworldindata.org/co2-emissions



https://ourworldindata.org/grapher/global-energy-substitution

Net zero CO_2 emissions by 2050 in 1.5 °C and by 2070 in 2.0 °C mitigation



We cannot solve our problems with the same thinking we used when we created them.
-Albert Einstein

Permanent change in energy behaviour is challenging

Energy crisis in Europe in 2022-2023

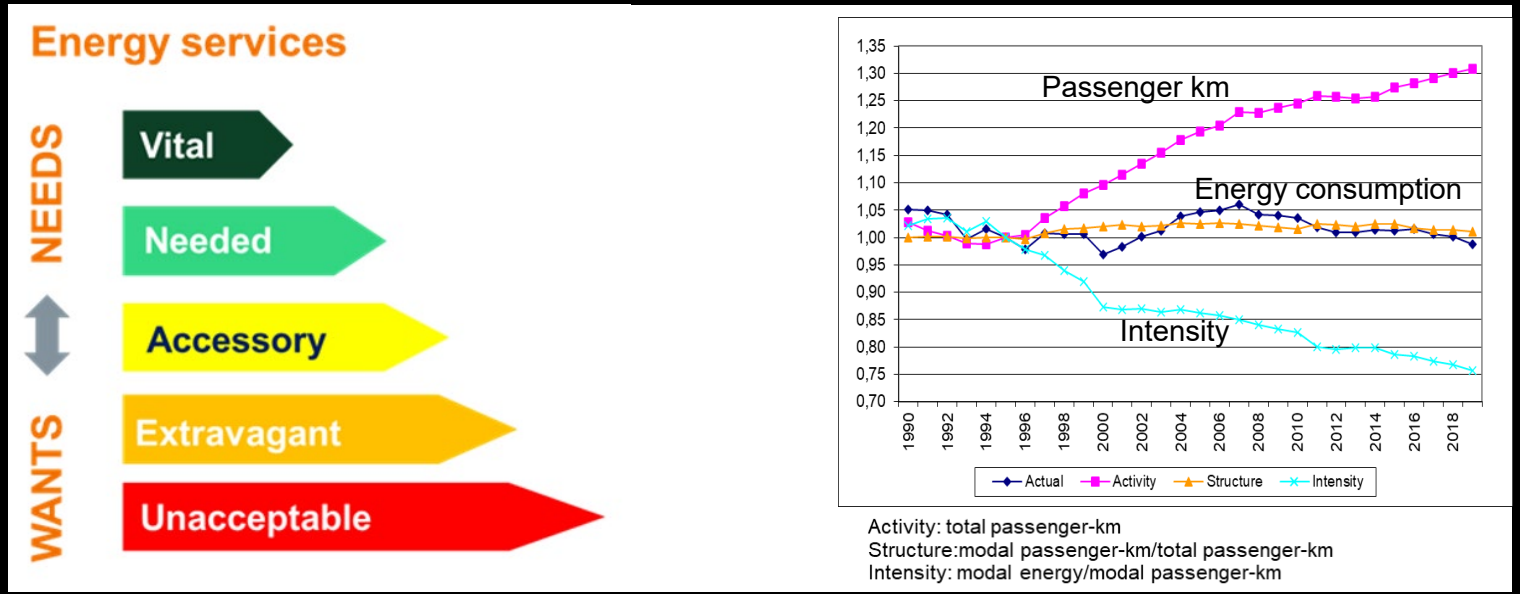
Unicef: Photo from Ukraine in 2022

50 years

Energy crisis in Finland in 1973

A-studio 19.12.1973: Saving energy during the oil crisis. Day before Government's new regulations came into force to save energy

Energy sufficiency: fair transition considering both technology and behaviour change

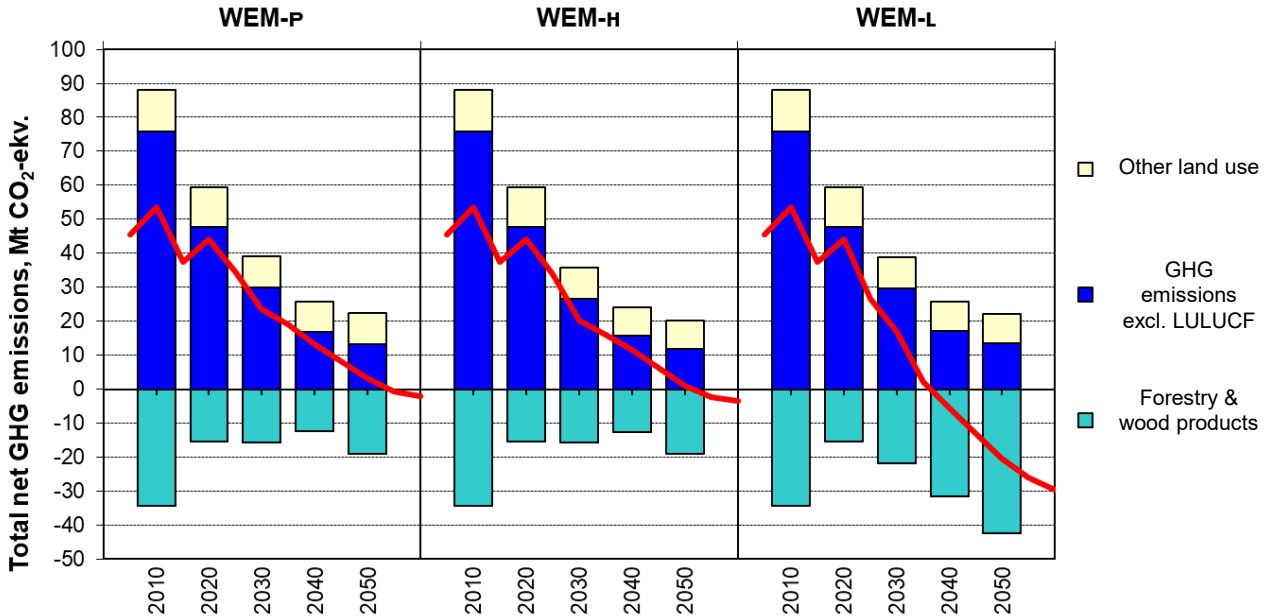


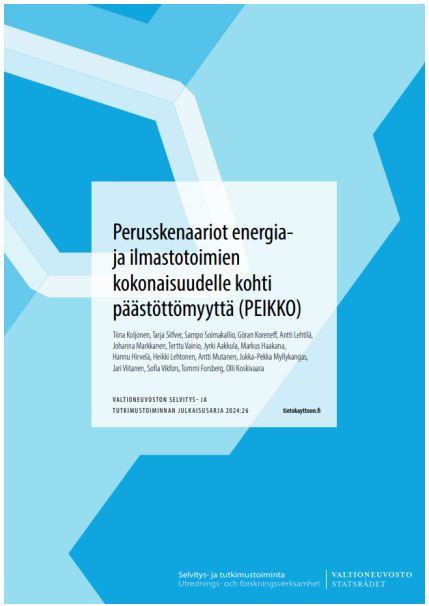
Domestic passenger transport in Finland

Activity: total passenger-km
Structure:modal passenger-km/total passenger-km
Intensity: modal energy/modal passenger-km

Source: Göran Koreneff, iBEX 2023, VTT

How to communicate and respond to uncertainties in scenarios?





190 p., 51 Figures, 7 app.