

DYNAMIX policy assessment

Tomas Ekvall, IVL





















QUALITATIVE AND QUANTITATIVE

- WP5: Qualitative assessments
- WP6: Ex-ante analysis of selected policy mixes



ECONOMIC MODELS

- ICES (Intertemporal Computable Equilibrium System)
 - Sectors & countries
- MEMO II (Macroeconomic Mitigation Option Model)
 - Dynamics
 - Market imperfections



TOOLBOX FOR PHYSICAL FLOWS

- Life cycle assessment
- Material/substance flow analysis
- Material pinch analysis
- Water footprinting
- Dynamic carbon footprinting



QUALITATIVE ENVIRONMENTAL ASSESSMENTS

- Cause-effect relationships
- Biodiversity
- Toxicity
- Noise
- etc.



QUALITATIVE ECONOMIC ANALYSIS

- Allocation of burdens and revenues
- Market power
- Transition cost
- Impacts of asymmetric information
- etc.



SOCIAL IMPACTS

- Labour market
- Social welfare
- Inequality



GOVERNANCE

- Legal barriers
- Public acceptability and behaviour



QUESTIONS FOR GROUP WORK

- 1. On what impacts should the assessment focus?
- 2. What do we need to consider in the assessment of the specific impacts?



EXAMPLE 1

1. On what impacts should the policy assessment focus?

Climate change

2. What do we need to consider in the assessment of the specific impacts?

Land-use change => change in albedo => climate change



EXAMPLE 2

1. On what impacts should the policy assessment focus?

Competitiveness of European industry

2. What do we need to consider in the assessment of the specific impacts?

Technological innovation => inceased competitiveness (less if industry is multinational)



THANK YOU!

- Tomas Ekvall
 - tomas.ekvall@ivl.se
 - +46 31 725 62 81

