



Overview

Using natural resources in a sustainable way – by decoupling economic growth from the environmental impacts of resource use – means both: ensuring the availability of supplies and managing the environmental impact of their use. This case study provides methods, indicators, data and scenarios for ISA to assist the EU Commission and member states in developing and implementing policies for sustainable resource management, minimization of waste, and Integrated Product Policy.

Objectives

The overall aim is to provide knowledge and various consistent data sets on systemic features, driving forces, technological and institutional options for policy and stakeholders. The focus is on resource use, waste and dematerialization potentials, tests of the strengths and weaknesses of ISA-tools and methods, and support for sustainability assessments useful to policy makers and stakeholders.

The study mainly deals with the European Union. The work package will follow two tracks. One will focus on ISA of policies influencing modes of production towards increased resource productivity, while minimizing shifting of environmental problems. The second track focusses on resources and waste generation by economic sectors and looks into driving forces, dynamics of change and policy options for dematerialisation.

WP 5.1: Increasing resource use efficiency without problem shifting

WP 5.1 focusses on ISA methods and tools that the detection and assessment of environmental problem shifting (for instance moving production outside the EU) associated with increased materials and resource productivity. We analyse the driving forces behind, and the technological and institutional potentials to further increase resource efficiency while minimizing problem shifting. To do this, a multi-level framework for analysis and assessment of economy-wide material flows and their environmental, economic and social implications is being developed, with a focus on indicators and quantitative targets applicable at the EU-25 member states. Integration of findings will support further development of models and ISA methods.

WP 5.2: Resource use and waste generation by economic sectors: options for dematerialisation

WP 5.2 focusses on resources, waste generation by economic sectors and driving forces, dynamics of change and policy options for dematerialisation. This ultimately will provide tools for forecasting material and waste flows in relation to economic developments and lifestyle.

Activities

WP.5.1

- Multi-level framework for analysis and assessment of economy-wide material flows
- Analysis of driving forces of problem shifting

About the MATISSE project

MATISSE aims to achieve a step-wise advance in Integrated Sustainability Assessment (ISA) of EU policies. The core activity of MATISSE is to improve the tools available for conducting Integrated Sustainability Assessments. The case studies provide the real-world contexts within which the ISA methodology and tools can be assessed. Stakeholders have a central role within ISA.

What is ISA?

Integrated Sustainability Assessment (ISA) is a cyclical, participatory process of scoping, en-visioning, experimenting, and learning through which a shared interpretation of sustainability for a specific context is developed and applied in an integrated manner, in order to explore solutions to persistent problems of unsustainable development.

Other Briefing Sheets

- Conceptual framework for ISA
- Current Use of ISA Policies and Tools
- Agriculture, Forestry and Land Use Case Study
- Water Case Study
- Environmental Technologies Case Study
- Using and Improving Existing ISA Tools
- Developing New ISA Tools
- Dissemination

- Stakeholder and participatory process
- Modelling selected technological and institutional potentials for minimizing resource use and waste generation (close cooperation with WP7, WP8 and WP9)

WP 5.2

- Selection of categories of materials and of geographical and time scope of the data bases
- Construction of data base and scenario analysis
- Stakeholder and participatory process
- Second iteration of scenario analysis using inputs from Task 3, WP 8 and WP 9
- Evaluation of methodological requirements for further development of ISA methods and tools

Products

WP 5.1

- Report on methodological requirements, indicators and targets to be considered by ISA.
- Report on driving forces of resource use/efficiency/problem shifting and parameters to be considered by ISA.
- Meeting with relevant stakeholders
- Report on how technological and institutional potentials can be considered in ISA.

WP 5.2

- Detailed specification of the structure and scope of data bases
- Two data bases
- Meeting with relevant stakeholders
- Revised data base
- Technical report on scenario results, scenario narratives
- Final report on experiences with ISA

Research team for WP 5:

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MATISSE



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Find more information at www.matisse-project.net



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