

FORE • SCENE

**Development of a Forecasting
Framework and Scenarios
to Support the EU Sustainable
Development Strategy**



**SIXTH FRAMEWORK PROGRAMME
PRIORITY 8.1**

Policy-oriented research, Scientific support
to policies, Integrating and Strengthening
the European Research Area

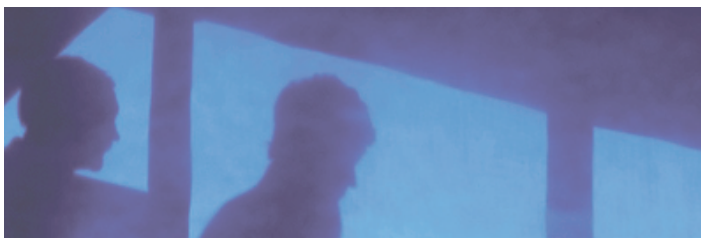
Background

The challenge addressed by this project is to develop a framework for creating sustainability scenarios, which integrate different environmental topics such as water, soil, resource use etc. In the general context of the EU Sustainable Development Strategy and to comply with the specific needs of Impact Assessments the European Commission and DG Environment in particular need a robust and scientifically sound forecasting framework to develop harmonised middle and long-term (2015-2030) baseline and alternative policy scenarios.

FORESCENE will develop an analytical framework for consistent environmental sustainability scenario building (forecasting, backcasting, simulation) in areas such as water, soil, biodiversity, waste and natural resources. Problem issues and priority policy fields such as agriculture, infrastructures/land use, industry/economy will be selected in close contact with the EU Commission. The project will focus on backcasting, to identify different scenarios leading to the achievement of future targets.

FORESCENE will

- ▶ describe the chosen environmental problems, review policy objectives and indicators, and determine the cross-cutting driving forces;
- ▶ develop core elements of integrated sustainability scenarios (goal definition);
- ▶ determine measures and processes to be considered for change (pre-backcasting);
- ▶ address quantitative and qualitative parameters for measurement (parameterization);
- ▶ develop a Business-As-Usual (BAU) scenario framework and example projections (forecasting);
- ▶ develop alternative scenarios (incl. backcasting);
- ▶ check the options for modelling, and
- ▶ work out conclusions.



To integrate these eight steps FORESCENE will organize a series of workshops to involve DGs and stakeholders, to integrate knowledge on (a) cross-cutting drivers of various environmental problems and priority policy fields, and (b) to define essentials for integrated sustainability scenarios in terms of goals and cross-cutting policy measures. Further experts will be involved at various stages of the project. The project will result in recommendations for future policy development with regard to the EU's Sustainability Development Strategy and the framework for Impact Assessments and concrete proposals for the use and extension of existing simulation models.

FORESCENE will interact with the parallel ongoing TranSust. Scan project, since there is substantial complementarity between both projects as to the topics and methods.

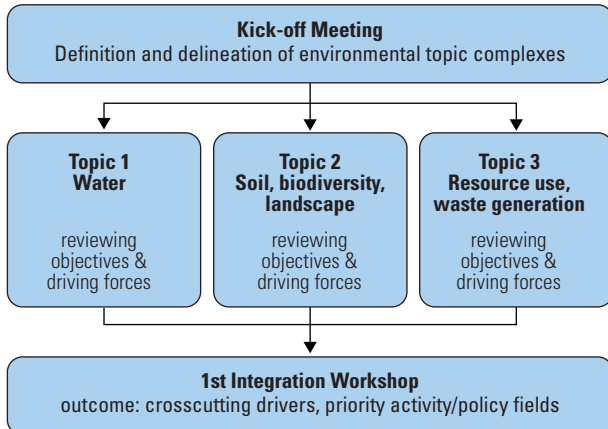
The deliverables of FORESCENE will be:

1. Determination of cross-cutting driving forces for environmental topics such as water, biodiversity, resource use and waste (Paper and Workshop; until month 6)
2. Development of core elements of integrated sustainability scenarios (goal definition) (Paper and Workshop on activity/policy fields; until month 12)
3. Determination of measures and processes to be considered for change - options for parameterization and simulation/modelling (Report; until month 15)
4. Checking the options for modelling various scenarios (Report; until month 20)
5. Development of a Business-As-Usual (BAU) scenario and example projections (Report; until month 25)
6. Development and modelling of alternative scenarios (Report; until month 27)
7. Working out the conclusions (Final report and Workshop; until month 30)

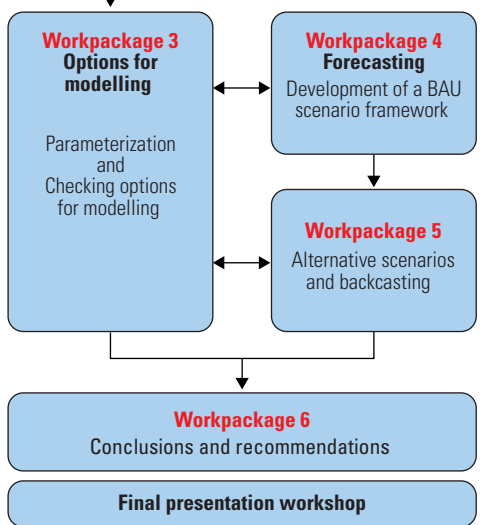
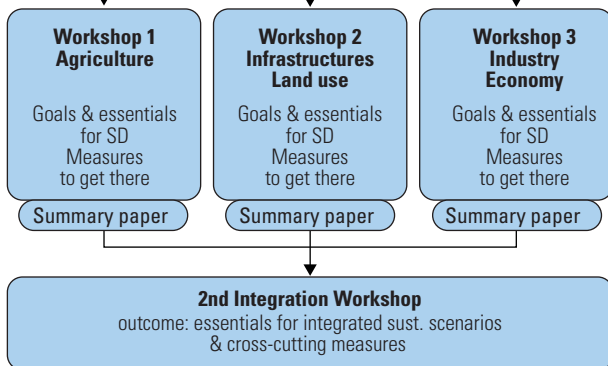
Project duration: December 2005 – May 2008



Workpackage 1



Workpackage 2



Partners

Wuppertal Institute for Climate, Environment and Energy
www.wupperinst.org

Lund University Centre for Sustainability Studies (LUCSUS)
www.lucsus.lu.se

Centre for Environmental Management University of Nottingham
www.nottingham.ac.uk/geography

Regional Environmental Center for CEE (REC)
www.rec.org

Sustainable Europe Research Institute (SERI), Vienna
www.seri.at

Agricultural and Land Economics Department (DEART),
Universita Firenze
www.deart.unifi.it

**Science Centre
North Rhine-Westphalia**

Institute of Work
and Technology



Institute for Culture
Studies

**Wuppertal Institute for
Climate, Environment and
Energy**



LUND
UNIVERSITY



Agricultural and Land Economics
Department (DEART) | Universita Firenze



REGIONAL ENVIRONMENTAL CENTER

Contact

FORESCENE is coordinated by the
Wuppertal Institute for
Climate, Environment and Energy.

Project leader:
Dr. Stefan Bringezu

For further information, please contact:
Christian Radtke
Mail: christian.radtke@wupperinst.org

www.forescene.net

