

INTERESTED?

Get Involved....!

Stakeholders interested in contributing to this process will have regular opportunities to comment on the work of the project as it develops and to participate in providing input to subsequent stages of the project. Inputs will be accepted in many forms, but the primary method will be through five meetings to which external experts will be invited. If you wish to be invited please let us know.

Soundboard Meetings will be conducted throughout the course of the project to allow members of the group to consult with experts in the field of transport systems and energy supply

Clustering Meetings dissemination of results from selected workpackages and the final results of STEPs. The last meeting will be a project conference.

If you would like to become more involved in the work, you can sign up via the website www.steps-eu.com or you can contact the project partners to register an interest. For a general interest in the topic please view the project website for the latest project news, or to sign up for our electronic newsletter service.

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Further details on STEPs can be found at:
<http://www.steps-eu.com>

STEPS PARTNERS

STEPS is made up of a well balanced consortium of research institutes, individuals and companies who are experienced in the field of expertise needed by **STEPS**. The **STEPS** consortium is as follows:

- ◆ Buck Consultants International (Project co-ordinator) (BCI), *The Netherlands*
- ◆ Transportation Systems and Logistics Laboratory, Athens University of Economics and Business (TRANSLOG), *Greece*
- ◆ Institute for Transport Studies, University of Leeds (ITS), *UK*
- ◆ Institute for Prospective Technological Studies, Joint Research Centre (IPTs), *Spain*
- ◆ Spatial Applications Division Leuven, Katholieke Universiteit Leuven (SADL), *Belgium*
- ◆ LT Consultants, *Finland*
- ◆ Netherlands Agency for Energy and the Environment (NOVEM), *The Netherlands*
- ◆ Spiekermann & Wegener (S&W), *Germany*
- ◆ STRATEC, *Belgium*
- ◆ TIS.pt, *Portugal*
- ◆ Transport Research Laboratory Ltd (TRL), *UK*
- ◆ TRT Trasporti e Territorio, *Italy*
- ◆ Transport & Travel Research Ltd (TTR), *UK*
- ◆ Universidad Politecnica de Madrid, *Spain*



Scenarios for the
Transport
system and
Energy supply
and their
Potential
effects



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STEPs



INTRODUCTION

The success of transport has relied on the wide availability of petroleum fuelling the ever-increasing human need and desire to travel.

Both factors influence and affect each other; the relatively cheap form of energy supplied to vehicles has helped the expansion of transport and this has driven the need for vehicle fuel. However, over recent years concern for the environment and the knowledge that petrol is slowly diminishing has led to investigations into the use of alternative fuels to power motorised transport. Driven by these issues and a desire to test various methods of reducing overall energy use **STEPs** was born.

STEPs (Scenarios for the Transport system and Energy supply and their Potential effectS) is a project being carried out as part of the European Union Sixth Research Framework Programme, under its 'Sustainable Surface Transport' priority.

PROJECT CONSORTIUM

The project consortium comprises 14 different organisations, all with expertise and skills in scenario building, modelling and transport & energy research. The project consortium is managed by Buck Consultants International and is expected to run for 2½ years from its start date in 2004 until 2006.

EC 6th FRAMEWORK PROGRAMME

The 6th Research Framework Programme provides the direction for European-sponsored research for the period 2002-2006. Within this programme **STEPs**, will "strengthen the scientific and technological bases of industry and promote research activities in support of other EU policies."

Scenarios for the Transport system and Energy supply and their Potential effectS

KEY TARGETS

The European Commission continues to be progressive in setting challenging targets for future developments in the transport energy system. These derive from:

- ♦ the need to reduce the use of polluting transport means in populated areas while maintaining the same level of accessibility;
- ♦ to put on course the transition towards an environmentally harmless transport system based on renewable fuels and reduced environmental noise emissions;

The targets include:

- ♦ reduction of greenhouse gas emissions and to reach a level of 30% replacement of fossil fuels by 2020;



- ♦ Objectives like the development of medium term technologies necessary to meet the Euro V emissions standards.

OBJECTIVES OF STEPs

The overall aim of **STEPs** is to develop, compare and assess possible scenarios for the transport system and energy supply of the future and supports both the overall FP6 programme objective and the specific future needs of the transport energy sector. In doing this it will take into account effects such as:

- ♦ autonomy and security of energy supply,
- ♦ effects on the environment,
- ♦ economic, technical and industrial viability, interactions between transport & land use.

METHODOLOGY

To achieve the objective of the project, **STEPs** has been divided into two activity paths:

- ♦ 'A' - co-ordination & outreach tasks
- ♦ 'B' - research activities.

KEY RESEARCH ACTIVITIES

Phase 1: Baseline activities, including:

- ♦ assessing recent and ongoing developments
- ♦ analysing national policies on transport and energy
- ♦ analysing case studies and technology projects
- ♦ identifying relevant trends in transport and energy use and the relationship between the two



Phase 2 Defining three scenarios for the transport and energy supply system of the future (2020 and 2030) in both qualitative and quantitative terms.

Phase 3 Running inter-linked models to produce forecasts of the relevant impacts of the scenarios, such as; transport demand, energy consumption, greenhouse & polluting emissions, accessibility and regional development & land use.

Phase 4 Assessing and evaluating the impacts of the scenarios

Phase 5: Reporting the results. Provide answers to questions concerning the future generations of vehicles, such as;

- ♦ transport energy consumption,
- ♦ measures to promote new technologies,
- ♦ transport & non transport related impacts.

Results of the project will assist the future decisions made by transport policy makers and stakeholders in the field of future transport, development and environment.

All the activities will not be carried out in isolation. Instead, information will be passed between the strands so that stakeholders can find out about the work of **STEPs** as it happens. Therefore, **STEPs** is not just a research project, but a forum where real themes will be discussed and the outcomes will drive future EU policy.