



# *Towards the definition of a measurable environmentally sustainable transport*

**Seminar COST 356 – EST**

**Wednesday 20 February 2008, TOI, Oslo, Norway**  
*Institute of Transport Economics, Gaustadalléen 21, 0349 Oslo*

## **Programme**

### **Objectives**

There is a strong interest in promoting more sustainable transport patterns in Europe and around the globe. It has therefore become still more important to be able to measure and assess the sustainability of present and future transport trends and policies. The COST Action 356 is a collaboration among European researchers, aiming to move towards the definition of a measurable environmentally sustainable transport (see <http://cost356.inrets.fr>). COST 356 Action is concerned with how environmental impacts of transport can be measured, how measurements can be transformed to operational indicators and indices, and how indicators are used in planning and decision making. The focus of the action is on the environmental dimension of sustainability, while we are aware that acknowledging the importance of transport for other dimensions of sustainability and that the practical applications of indicators also needs to take into account the wider decision making context.

The Action will host a one-day seminar that will take place at the Institute of Transport Economics or TØI in Oslo, Norway, on February 20<sup>th</sup> 2008.

There are two main objectives of the seminar:

- to present to a larger audience the work carried out so far within the COST action 356 on environmental indicators as measurement tools or decision making tools for environmentally sustainable transport
- to present significant research by other scholars in the same field, allowing the COST action to discuss and take into account the best available current thinking and results .

The seminar is open to scientists in the field of environmental indicators and decision making in transport, policy makers and administrators, consultants and other interested actors.

9.00            *Registration*

9.30    10' Welcome by Lasse Fridstrøm, Managing Director, Institute of Transport Economics

9.40    20' PRESENTATION OF THE COST ACTION 356, OBJECTIVES OF THE SEMINAR AND DEFINITIONS OF INDICATOR

Robert Joumard, chairman of the action

### **1. Sustainable transport measurement: fundamental challenges**

Chair: Farideh ramjerdi (TOI, N)

10.00    20' THE AIM OF ONTOLOGY FOR TRANSPORT AND ENVIRONMENT

Jacques Teller (Univ. Liège, B) (chairman COST C21)

10.20    20' ROLE OF CONTEXT IN THE DEFINITION AND USE OF ENVIRONMENTAL INDICATORS

Henrik Gudmundsson (DTU, DK)

10.40    20' discussion

11.00            *pause*

### **2. Measuring sustainable transport with environmental indicators**

Chair: Aud Tennoy (TOI, N)

11.20    20' CHAINS OF CAUSALITIES OF ENVIRONMENTAL IMPACTS

Robert Joumard (Inrets, F), Santiago Mancebo Quintana, Gerassimos Arapis & Tomasz Zacharz

11.40    20' ASSESSMENT OF THE LANDSCAPE QUALITY INCLUDING THE HISTORICAL HERITAGE

Paolo Ventura (Univ. Firenze, I) (chairman COST C27)

12.00    20' TOWARDS AN INTEGRATED REPORTING ON TRANSPORT, HEALTH AND ENVIRONMENT: ENVIRONMENT AND HEALTH INDICATORS

Dafina Dalbokova and Sonja Kahlmeier (WHO, D)

12.20    20' NOISE INDICATORS

Cristian Camusso (Politecnico Torino, I)

12.40    40' discussion

13.20            *lunch*

### **3. Integrating sustainable transport impacts and indicators**

Chair: Rosa Arce (Univ. Polytec. Madrid)

14.20    20' A METHODOLOGICAL FRAMEWORK FOR THE CONSTRUCTION OF COMPOSITE INDICATORS

Michaela Saisana (JRC Ispra, I)

14.40    20' INTEGRATING INDICATORS MEASURING THE ENVIRONMENTAL SUSTAINABILITY OF TRANSPORTATION PROJECTS, PLANS AND POLICIES INTO DECISION MAKING

Farideh Ramjerdi (TOI, N), Patrick Wäger, Benjamin Rousval, Luc Adolphe and Santiago Mancebo

15.00 20' TRADE-OFF ANALYSIS (WITH A REVISED RAWLSIAN DECISION-MAKING PHILOSOPHY) AS AN ALTERNATIVE TO COST-BENEFIT ANALYSIS (CBA) IN SOCIO-TECHNICAL DECISIONS

Ralph Hall (Stanford Univ., USA), Nicholas Ashford and Peter Söderbaum

15.20 30' discussion

15.50 *pause*

#### **4. Using sustainable transport measures in decisions**

Chair: Holger Dalkmann (TRL)

16.10 20' USING SUSTAINABLE TRANSPORTATION PERFORMANCE MEASURES IN CORRIDOR DECISION MAKING

Joe Zietsman (Texas Transportation Institute, USA)

16.30 20' DOES THE DEVELOPMENT OF SUSTAINABILITY INDICATORS LEAD TO MORE SUSTAINABLE DECISION-MAKING? A CASE STUDY OF THE UK

Greg Marsden (Leeds Univ., UK)

16.50 50' Panel discussion

Karl G. Høyer (Oslo Univ. College, N), A. Jurkeviciute (TRL, UK), Greg Marsden (Leeds Univ., UK), Aud Tennoy (TOI, N) and Joe Zietsman (Texas Transp. Inst., USA)

17.45 15' CONCLUSIONS

Henrik Gudmundsson, vice-chairman of the action

18.00 *End of the seminar*