Towards a New Paradigm of Ecological Economy and Social Innovation in Europe?

PASHMINA Final Conference

16 October 2012 - Brussels

Venue: European Commission, Rue Archimede 73, Brussels

Final Conference
16 October 2012
Bruxelles
Andrea Ricci, ISIS
### Morning session: Paradigm shifts in the energy-transport-land use perspective

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| 9.30 – 9.45 | Welcome and introduction                                                                      | - Octavi Quintana, Director, European Commission, DG RTD  
|          | - Andrea Ricci, ISIS                                                                        |                                                                          |
| 9.45 – 10.30 | Paradigm shifts and the PASHMINA scenarios                                                   | - Carlo Sessa, ISIS                                                      
|          | - Andreu Ulied, MCRIT                                                                        |                                                                          |
| 10.30 – 11.30 | Paradigm shift in the urban energy and transport nexus                                        | - Bertrand Château, ENERDATA                                             
|          | - Bernd Munier, NERI                                                                         |                                                                          |
| 11.30 – 12.00 | Coffee break                                                                                 |                                                                          |
| 12.00 - 13.00 | Paradigm shift in the global land use and ecosystem assessment                               | - Alvaro Calzadilla, IfW                                                 
|          | - Alejandro Caparros, CSIC                                                                    |                                                                          |
| 13.00 – 14.00 | Lunch                                                                                       |                                                                          |

### Afternoon session: Paradigm shifts in the socio-economic perspective

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| 14.00 – 15.30 | Paradigm shift in the global economy                                                         | - Emanuele Massetti, FEEM                                                 
|          | - Sabine Fuss, IIASA                                                                         |                                                                          |
|          | - Claudia Kettner, WIFO                                                                        |                                                                          |
|          | - Frédéric Ghersi, SMASH                                                                      |                                                                          |
| 15.30 – 16.30 | Towards a new paradigm of ecological economy and social innovation in Europe ?              | Chair: Vasco Cal, BEPA                                                   |
|          | *Invited discussants:*                                                                        |                                                                          |
|          | - Didier Bosseboeuf, ADEME, energy-transport-land use perspective                            |                                                                          |
|          | - Joan Marc Simon, Democracia Global, socio-economic perspective                             |                                                                          |
| 16.30 – 16.45 | Conclusions                                                                                 | - Andrea Ricci, ISIS                                                      
|          | - Domenico Rossetti di Valdalbero, European Commission, DG RTD                               |                                                                          |
Background: the call

- SSH-2009 – 2.1.1. New socio-economic concepts, paradigm shifts and territorial dynamics in a long term perspective
- Energy-transport-environment nexus
- Land-use and territorial functions
- Adaptation to global changes and tradeoffs mitigation/adaptation
- New generation of models and tools (first dvpts)
  - Lifestyle changes and socio economic learning
  - Resources limitations and other geopolitical issues
Background

• Questioning the dominance of the economic growth objective (feasible? desirable?)
• Ecological economics framework (focus on the interaction between economic and ecologic systems)
• New paradigms
  ↓
• New/enhanced tools
• New indicators
## Consortium

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<td>1</td>
<td>Istituto di Studi per l’Integrazione dei Sistemi ISIS</td>
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<td>Italy</td>
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<td>Consejo Superior de Investigaciones Científicas CSIC</td>
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<td>Institute for World Economics IfW</td>
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<td>Société de Mathématiques Appliquées et de Sciences Humaines SMASH</td>
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<td>NERI - Aarhus University AU</td>
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Objectives

- Exploratory scenarios (2030 – 2050) for global change options (narrative + key development indicators + metamodels)
- Impacts of paradigm shifts
  - Transport-Energy-Environment in cities (new/enhanced tools for qualitative and quantitative assessment, GIS)
  - Land-use and territorial functions incl. ecosystems services (new/enhanced tools, applications)
- New generation of global models and indicators (to capture paradigm shifts)
- Adaptation + mitigation strategies to tackle paradigm shifts
- Evaluate, compare and disseminate
Workplan overview

**WP1 – Global meta-analysis**: Qualitative scenarios and meta-modelling approach to paradigm shift analysis in a long term perspective

Main partners: Mcrit, ISIS

**WP2 – Paradigm shift and urbanization**: Paradigm shift in the energy-transport-environment nexus related to urban functions

Main partners: ENERDATA, AU, ISIS, SMASH

**WP3 – Integrated assessment of landuse competition**: Paradigm shift in the land-use and territorial functions related to forestry and agriculture

Main partners: IFW, AU, CUNI, CSIC, IIASA

**WP4 – New generation of global accounting and general equilibrium modelling frameworks**: Design & first development of new paradigm shift sensitive accounting and modelling frameworks

Main partners: IIASA, FEEM, SMASH, WIFO

**WP5 – Optimal strategies and policies to direct and adapt to global change**: Pilot assessment of adaptation & mitigation policies related to global changes

Main partners: FEEM, ISIS, IIASA, SMASH, WIFO

**WP6 – Dissemination and stakeholders involvement**: ISIS, AU, FEEM, Mcrit
Deliverables (1)

D1.1 Qualitative scenarios
D1.2 Forecast and quantitative scenarios
D2.1 Methodology to assess consequences of interactions transport/energy/environment
D2.2 GIS specifications: how to assess the geographic consequences of paradigm shifts
D4.1 Detailed description of models
D2.3 Maps of geographical consequences of paradigm shifts for local applications
D2.4 Economic consequences of changes in transport/energy/environment interactions for local applications
D2.5 Consequences of paradigm shifts in transport/energy/environment nexus
D3.1 Development/extensions of models and data
D3.2 Model application and case studies
Deliverables (2)

D4.2 Shared assumptions to harmonize models’ outputs
D4.3 Report on robust decision making models
D5.2 Harmonised baseline scenarios with models integrating advancements from WP4
D5.3 Comprehensive policy strategy to govern global change and adaptation behaviour under uncertainty
D6.1 Newsletters
D6.2 Evaluation of model advancements in PASHMINA
D6.3 Final report on dissemination activities

www.pashmina-project.eu
Challenges

• Conceiving and illustrating relevant and credible paradigm shifts
• Translating qualitative visions into quantifiable scenarios
• Developing innovative tools to capture and represent paradigm shifts (indicators, models, GIS)
• Documenting experimental applications
• Ensuring robustness and replicability of methodologies and tools (in view of future developments)
• Involving stakeholders
• Ensuring internal cohesion, collaboration and communication
Thank you

ISIS - Istituto di Studi per l'Integrazione dei Sistemi

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