

Programme:

Perspectives on Radical Changes to Sustainable Consumption and Production (SCP)

Workshop of the Sustainable Consumption Research Exchange (SCORE!) Network, Thursday 20 and Friday 21 April 2006, Copenhagen, Denmark

Version: 12 April 2006

Organisation:

RISØ, Roskilde, Denmark, TNO, Delft, Netherlands, and the other members of the SCORE co-ordination team.

Information: Maj Munch Andersen (maj.munch.andersen@risoe.dk) or Arnold Tukker (Arnold.tukker@tno.nl),

The workshop is organized with support of the European Environment Agency (EEA) and the European Topic Centre on Waste and Resource Management (ETC-WRM), and endorses the UN's Ten Year Framework of Programs on Sustainable Consumption and Production

Table of Contents

1	Introduction and general information	3
1.1	The SCORE project.....	3
1.2	Workshop concept.....	3
1.3	Venue	4
1.4	Hotel.....	4
1.5	Dinner Venue (Thursday 20 April, 19.00)	4
1.6	Travel directions	4
1.7	Map of Copenhagen	5
2	Workshop Program	5
2.1	Thursday 20 April (start: 8.30; end: 18.00).....	5
2.1.1	Plenary introduction	5
2.1.2	Parallel session I: Consumer Research.....	6
2.1.3	Parallel session II: Sustainable Design.....	7
2.2	Friday 21 April (start: 8.45; end: 17.00)	8
2.2.1	Parallel Session III: Business management / PSS; Special session on Consumption in Eastern Europe.....	8
2.2.2	Parallel Session IV: System Innovation and Policy	9
2.2.3	Plenary: Final Panel Discussion	10
3	Concept of each session	11
3.1	Concept of the session ‘New business development’.....	11
3.2	Concept of the session ‘Sustainable design’	11
3.3	Concept of the session ‘Consumer research’	12
3.4	Concept of the session ‘System innovation policy’	12
4	Practical information for presenters, discussants, rapporteurs and about the Session-wrap up’s.....	13
4.1	Presenters	13
4.2	Discussants.....	13
4.3	Wrap-up sessions	13
4.4	Rapporteurs	14
5	Concept of the SCORE project in three slides	15
6	Participants in the SCORE project	16
7	List of Registered Workshop Participants.....	17

1 Introduction and general information

1.1 The SCORE project

SCORE! (Sustainable Consumption Research Exchanges) is an EU-funded network project that supports the UN's 10 Year Framework of Programs on Sustainable Consumption and Production (SCP). It runs between 2005 and 2008, consists of 28 institutions, and aims to involve and structure a larger community of a few hundred professionals in this field, in the EU and beyond.

The SCORE! philosophy assumes that sustainable consumption and production structures can only be realized if experts that understand **business development, (sustainable) solution design, consumer behaviour** and **system innovation policy** work together in shaping them. Furthermore, this should be linked with experiences of actors (industry, consumer groups, ecolabelling organisations) in real-life consumption areas: **Mobility, Agro-Food, and Energy/electronics**. These areas are responsible for 70% of the life cycle environmental impacts of Western societies. Broadly, this gives the following approach to our project (see Section 4):

- The first phase of the project wants to arrange a positive confrontation of conceptual insights developed in the four aforementioned science communities, of how 'radical' change to SCP can be governed and realised.
- The second phase puts the three consumption areas in centre stage. SCORE! Work package leaders will inventory cases 'that work' with examples of successful switches to SCP in their field. In a series of conferences and workshops, cases will be analysed on 'implementability', adapted where needed, and policy 'prescriptions' will be worked out that can support implementation.

1.2 Workshop concept

The main vehicle for the first phase is first SCORE Workshop, Thursday 20 and Friday 21 April 2006 hosted by Risoe with support of the EEA and ETC-WMF, in Copenhagen, Denmark. For this workshop, we invited particularly conceptual contributions about how to realise radical changes to sustainable consumption and production. There are 4 sessions of about 8 presentations, each dealing with one of the perspectives: business (with expected contributions mainly from business schools and business), sustainable design (with expected contributions mainly from design institutes), consumer behaviour (with expected contributions mainly from consumer scientists) and system innovation (with expected contributions mainly from experts in system innovation and governance for transitions). Participants can have a role as presenter or discussant. In order to create a positive confrontation across the different scientific perspectives, we have deliberately linked where possible presenters with discussants that have roots in a different science field (see Section 2 for the program)

All papers will be part of the Workshop proceedings. From each of the four fields, the 4-5 best papers will be selected for inclusion in an edited 'State of the Art' book on governance or radical changes to SCP. The

SCORE Work Package/session leaders will contribute with a state of the art review for each of the four perspectives; in the period after the workshop the full SCORE co-ordination team will produce an extensive concluding synthesis.

1.3 Venue

Meeting rooms for the Workshop have been kindly made available by the European Environment Agency (EEA). Lunches and coffee breaks during the program will also take place at EEA. The EEA is located at Kongens Nytorv 6, 1050 Copenhagen K, phone: +45 3336 7100

1.4 Hotel

All members of the SCORE! project team stay in

Copenhagen Strand Hotel, Havnegade 37
DK-1058 Copenhagen K
Denmark
Tel. +45 3348 9900
Fax +45 3348 9901
copenhagenstrand@arp-hansen.dk
<http://www.copenhagenstrand.com>

The SCORE! block booking has expired end March but via the indicated internet site you may still be able to book a room for same rate. Otherwise use of the many hotel booking tools, such as www.booking.com or www.hotelclub.com

1.5 Dinner Venue (Thursday 20 April, 19.00)

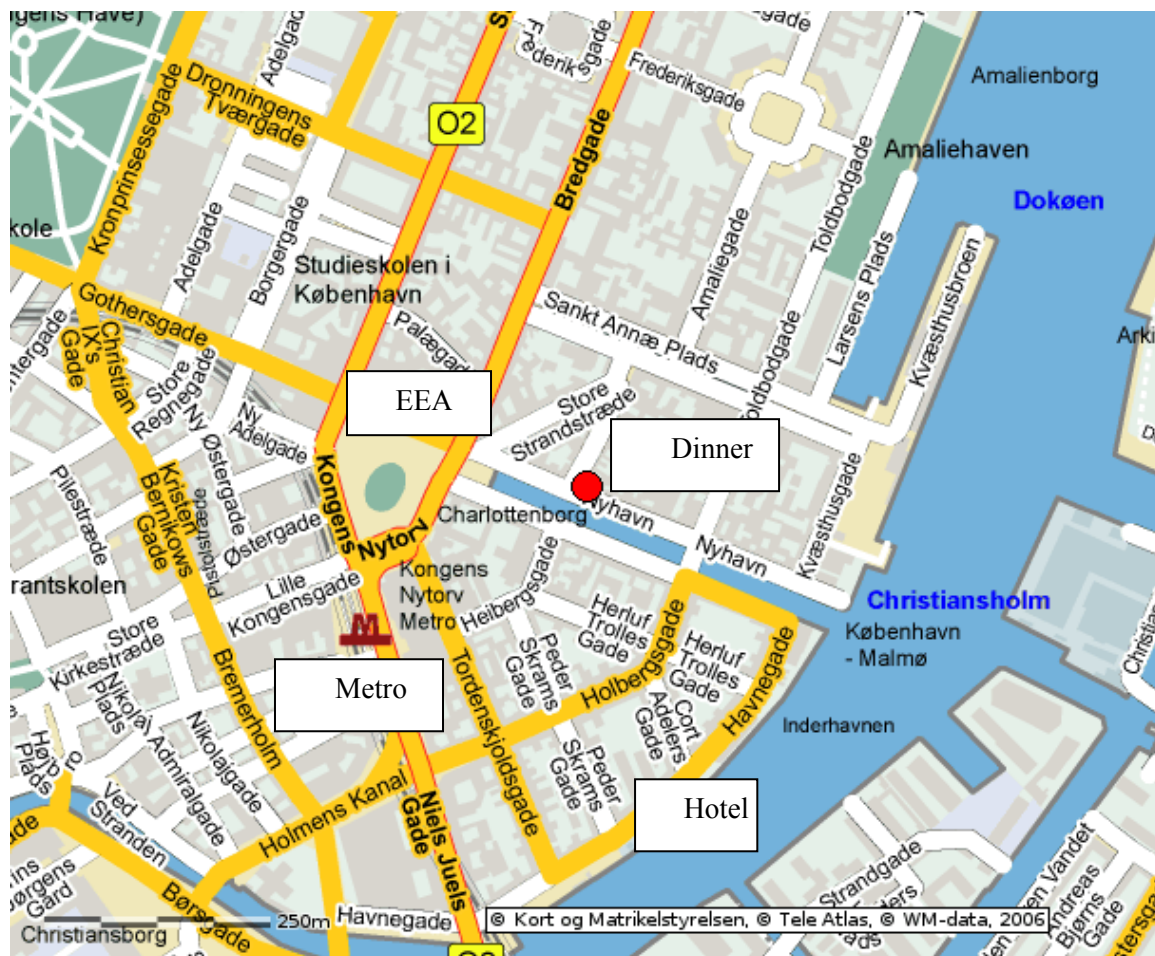
On Thursday evening 20 April, 19.00, for those who indicated they wanted to participate this upon registration, a complementary Workshop dinner is organised. The dinner venue is Cap Horn, Nyhavn 21, 1051 Copenhagen K.

1.6 Travel directions

Copenhagen Airport is well connected with virtually all major airports in Europe and the rest of the world. There is a frequent direct fast train from the airport to Copenhagen Central Station. Copenhagen Central Station is at walking distance of EEA, the Strand Hotel and the Dinner Venue.

1.7 Map of Copenhagen

Below a map is given with all relevant locations listed above.



2 Workshop Program

2.1 Thursday 20 April (start: 8.30; end: 18.00)

2.1.1 Plenary introduction

8.30-9.10	Registration, coffee, etc.
9.10-9.30	Opening statement Welcome (Gordon McInnes, Deputy Director, EEA) EEA work on sustainable consumption (Lars Mortensen, group leader, SCP Unit, EEA,
9.30-9.40	The 10-Year Framework of Programs on Sustainable Consumption and Production: the role of science (Bas de Leeuw, Head, Strategy Unit, Sustainable Consumption and Production, UNEP-DTIE)
9.40-9.55	The concept of SCORE (Arnold Tukker, SCORE Manager)
9.55-10.05	The workshop concept and practicalities (Maj Munch Andersen, RISOE)

Coffee break

2.1.2 *Parallel session I: Consumer Research*

Chairperson: Eivind Sto. Rapporteur: Theo Geerken

- | | |
|-------------|---|
| 10.25-10.40 | Opening statement of session leader: Dr. Eivind Sto (SIFO) |
| 10.40-11.00 | Presentation 1: How may consumer policy empower consumers for sustainable lifestyles? John Thøgersen, Arhus Business School, Denmark |
| 11.00-11.20 | Presentation 2: Do information and awareness work? Rationalities and inconsistencies in consumers behaviours. Françoise Bartiaux, University of Louvain-la-Neuve, Belgium |
| 11.20-11.30 | Questions by discussant (5 minutes each)
Discussant: Philip Vergragt (t.b.c.) |
| 11.30-12.00 | Discussion |

Lunch

- | | |
|-------------|---|
| 12.50-13.10 | Presentation 3: Product Service Systems – A Conceptual Approach to Enhance the Symbolic Meaning of Consumption without Ownership. Gerd Scholl, IÖW, Germany |
| 13.10-13.30 | Presentation 4: Food Consumption as a Principle of Classification and Identification. Organic and Natural Food Consumers in France Arouna P. Ouédraogo INRA-CORELA, Paris |
| 13.30-13.40 | Questions by discussant (5 minutes each)
Discussant: Lucia Reisch (t.b.c.) |
| 13.40-14.10 | Discussion |

Short coffee break

- | | |
|-------------|--|
| 14.20-14.40 | Presentation 5: Social capital, lifestyles and consumption patterns. Dario Padovan, University of Torino, Italy |
| 14.40-15.00 | Presentation 6: Linking Sustainable Consumption to Everyday Life: A social-ecological approach to consumption research. Irmgard Schultz, Institute for Social-Ecological Research (ISOE), Frankfurt, Germany |
| 15.00-15.20 | Presentation 7: Consuming technologies – developing routines. Kirsten Gram-Hanssen, Danish Building Research Institute, Denmark |
| 15.20-15.30 | Questions by 2 discussants (5 minutes each)
Harald Throne-Holst (paper 5-6) (t.b.c.)
Michael Soegaard Joergensen (paper 7) (t.b.c.) |
| 15.30-16.05 | Discussion |

Short coffee break

- | | |
|-------------|--|
| 16.20-16.40 | Presentation 8: Wavering between radical and realistic sustainable consumption policies – in search for the best feasible trajectories. Adriaan Perrels, VATT, Finland |
| 16.40-17.00 | Presentation 9: Towards a concrete sustainable consumption policy: What can we learn from examples? Edgar Hertwich, NTNU, Norway* |
| 17.00-17.10 | Questions by discussant (5 minutes each)
Discussant: Gunilla Blomquist □ |
| 17.10-17.40 | Discussion |
| 17.40-18.00 | Session Wrap-up: Overall conclusions |

2.1.3 Parallel session II: Sustainable Design

Chairperson: Carlo Vezzoli, Rapporteur: Martijn Verkuijl/Ursula Tischner

- 10.25-10.40 Opening statement of session leader: Prof. Carlo Vezzoli, Politecnico di Milano
- 10.40-11.00 Presentation 1: Design for (Social) Sustainability and Radical Change. Ursula Tischner, Econcept, Germany
- 11.00-11.20 Presentation 2: the Multifunctional Centre Case. Translating a broad societal need into a concrete product service solution. Peter Joore, TNO, Netherlands
- 11.20-11.30 Questions by discussant (5 minutes each)
Discussant: Maj Munch Andersen
- 11.30-12.00 Discussion

Lunch

- 12.50-13.10 Presentation 3: Service Notation Tools To Support Strategic Conversation Towards Sustainability, François Jégou, Solutioning Design, Belgium
- 13.10-13.30 Presentation 4: The Use Of Communication Tools And Policy Instruments To Facilitate Changes Towards Sustainability. Rui Frazão, Cristina Rocha, Paula Trindade, INETI, Portugal
- 13.30-13.40 Questions by discussant (5 minutes each)
Discussant: Saadi Lahlou (tbc)□
- 13.40-14.10 Discussion

Short coffee break

- 14.20-14.40 Presentation 5: Designing Alternatives for Sustainable Consumption and Lifestyle: Initial Findings from a Research on 'Responsible Consumers'. Anne Marchand, Stuart Walker, University of Calgary, Canada
- 14.40-15.00 Presentation 6: Eco-innovative cities, Chris Ryan, MRIT, Australia
- 15.00-15.20 Presentation 7: Is Radical Systemic Shift Towards Sustainability possible in China? Benny Leong, Hong Kong University, Hong Kong, China
- 15.20-15.30 Questions by 2 discussants (5 minutes each)
Henk Moll (paper 5-6; t.b.c.)
Sophie Emmert (paper 7)
- 15.30-16.05 Discussion

Short coffee break

- 16.20-16.40 Presentation 8: Co-creation processes for sustainable innovation. Simone Maase, Eindhoven University, Netherlands
- 16.40-17.00 Presentation 9: New approaches to welfare and housing in Finland. Cindy Kohtala, o2 Finland, University of Art & Design Helsinki
- 17.00-17.10 Questions by discussant (5 minutes each)
Rolf Wuestenhagen (paper 8, t.b.c.)
Sophie Emmert (paper 9, t.b.c.)
- 17.10-17.40 Discussion
- 17.40- 18.00 Session Wrap-up: Overall conclusions

End of day 1 followed by Dinner, 19.00

2.2 Friday 21 April (start: 8.45; end: 17.00)

2.2.1 *Parallel Session III: Business management / PSS; Special session on Consumption in Eastern Europe*

Chairperson: Martin Charter, Rapporteur: Saadi Lahlou

- 8.45-9.00 Opening statement of session leader: Prof Martin Charter (CfSD)
 9.00-9.20 Presentation 1: Business models for sustainable energy. Rolf Wuestenhagen, University of St. Gallen, Switzerland
 9.20-9.40 Presentation 2: Sustainable Innovation and the Porter Hypothesis - How to Innovate for Energy-Efficient Consumption and Production? Marcus Wagner, Technical University of München, Germany
 9.40-9.50 Questions by discussant (5 minutes each)
 Discussant: (t.b.a)
 9.50-10.20 Discussion

Short coffee break

- 10.30-10.50 Presentation 3: Alternative Business Models for a Sustainable Automotive Industry. Peter Wells, BRASS, Cardiff University, Wales
 10.50-11.10 Presentation 4: Marketing in the age of sustainable development. Frank Martin Belz, Technical University of München, Germany
 11.10-11.20 Questions by discussant (5 minutes each)
 Discussant: Chris Foster, Manchester Business School (t.b.c.)
 11.20-11.50 Discussion

Lunch

Sub-session on Product Services

- 12.50-13.10 Presentation 5: Integrated Product and Service Engineering – the IPSE project
 Mattias Lindahl, Anna Ohrwall Ronnback, Erik Sundin, Johan Ostlin, Gunilla Olundh. , Royal Institute of Technology, Stockholm, Sweden
 13.10-13.30 Presentation 6: Product Service Systems (PSS) as holistic cures for our obese consumption and production. Robert Wimmer and Myung Joo Kang
 13.30-13.40 Questions by discussant (5 minutes each)
 Discussant: Tim Cooper (t.b.c.)
 13.40-14.10 Discussion

Short coffee break

Special session on Consumption in Eastern Europe – chair Eivind Sto

- 14.20-14.40 Presentation 7: Environmental Consciousness of Consumers in Post-Socialist Society: the Case of Estonia. Maie Kiisel, University of Tartu, Estonia
 14.40-15.00 Presentation 8: Emerging sustainable consumption patterns in Central Eastern Europe, with specific focus on Hungary. Edina Vadovics, Central European University, Hungary
 15.00-15.10 Questions by discussant (5 minutes each)
 Discussant: Sylvia Lorek (t.b.c.)
 15.10-15.40 Discussion
 15.40-16.00 Session Wrap-up: Overall conclusions

Coffee break followed by plenary

2.2.2 *Parallel Session IV: System Innovation and Policy*

Chairperson: Maj Munch Andersen, Rapporteur: Sophie Emmert

8.45-9.00	Opening statement of session leader: Dr. Maj Munch Andersen (RISO)
9.00-9.20	Presentation 1: The business enterprise & the sociotechnical regime - combining organizational innovation and system transition approaches, Fred Steward, Brunel University, UK
9.20-9.40	Presentation 2: Transformation in consumption and production patterns from a regime perspective. Kornelia Konrad / Bernhard Truffer1/Jan-Peter Voß, EAWAG, Switzerland
9.40-9.50	Questions by 2 discussants (5 minutes each) René Kemp (1, t.b.c.) Edgar Hertwich (2, t.b.c.)
9.50-10.20	Discussion

Short coffee break

10.30-10.50	Presentation 3: System innovations for sustainable development: the role for policy. René Kemp (DRIFT, ICIS and MERIT), The Netherlands
10.50-11.10	Presentation 4: System innovations in innovation systems. Matthias Weber, Klaus Kubezcko & Harald Rohrachner, ARC Seibersdorf, Austria
11.10-11.20	Questions by 2 discussants (5 minutes each) Ursula Tischner (3, t.b.c.) Fred Steward (4, t.b.c.)
11.20-11.50	Discussion

Lunch

12.50-13.10	Presentation 5: Systemic Changes for Sustainable Consumption and Production. Oksana Mont & Tareq Emtairah. IIIIEE, Lund University, Sweden
13.10-13.30	Presentation 6: Elements of System Innovations for SCP & the Role of Policy Maker as a Stimulator. Burcu Tuncer and Michael Kuhndt. UNEP-Wuppertal Institute Centre on Sustainable Consumption and Production (CSCP), Germany
13.30-13.40	Questions by 2 discussants (5 minutes each) Halina Brown (5, t.b.c.) Matthias Weber (6, t.b.c.)
13.40-14.10	Discussion

Short coffee break

14.20-14.40	Presentation 7: Sustainable Consumption Innovations – instrumentalization and integration of Emergent patterns of everyday life. Mikko Jalas, Helsinki School of Economics, Finland
14.40-15.00	Presentation 8: Full-system resource efficiency and 'functional surface': formalism, analytics, metrics. John Manoochchri, Royal Institute of Technology (KTH), Stockholm
15.00-15.40	Questions by 2 discussants Lars Mortensen (7, t.b.c.) Pawel. Kamierczyk (8, t.b.c.)
15.10-15.10	Discussion
15.40-16.00	Session Wrap-up: Overall conclusions

Coffee break followed by plenary

2.2.3 *Plenary: Final Panel Discussion*

16.15-17.00 Panel discussion: first conclusions on governance for SCP.
Moderator: Maj Munch Andersen, RISOE
Panel: David Stanners, Programme Manager, Strategic Knowledge and Innovation, EEA; Birgit Munck-Kampmann, director, ETC-WMF; Bas de Leeuw, Head, Strategy Unit, SCP, UNEP-DTIE, Arnold Tukker, project leader SCORE, TNO.

Closure 17.00 by Arnold Tukker

3 Concept of each session

3.1 Concept of the session ‘New business development’

Chairperson/organiser: Prof. Martin Charter (e-mail: mcharter@surrart.ac.uk)

The SCORE project will address sustainable consumption and production (SCP) issues from a variety of perspectives: business; consumer; policy; and design. The Business theme in the 1st workshop seeks to attract high quality papers from business and management school researchers covering issues related to (sustainable) new business models, innovation and marketing. Authors might wish to consider one of the topics in the context of SCP or might try and connect the various strands. The overall focus of the presentations should be "how to foster higher levels of sustainable innovation in relation to business models, product, services and product-service combinations". Papers should be primarily conceptual and theoretical aiming to bring new thoughts and perspectives into the debate. Contributions will act as essential inputs into the second phase of the project which will focus on the development of empirical cases.

3.2 Concept of the session ‘Sustainable design’

Organiser: Prof. Carlo Vezzoli (e-mail: carlo.vezzoli@polimi.it)

This session will debate the potential role of design in behavioral changes and re-orientation towards more sustainable patterns. The goal is to exchange views on design as process facilitator in sustainable behaviors and modes of living, both in design practice and in design Higher Education Institutions, HEIs. The workshop session's focus will be on the following issue: how design can bridge social and technical innovation and, in this way, facilitate local radical systemic changes towards sustainability.

In particular the WS will be an opportunity to discuss the results that have been achieved by the networks of HEIs of design that in the last years have been built: the networks of European Antennas (build up in the framework of the *EMUDE* research) and the international network on design for sustainability (informal network of HEIs named *LENS, Learning Network on Sustainability*). Within the above framework the papers could address the following issues:

- Design and environmentally sustainable consumption
- Design and social innovation for equity improvements
- Design and local economies empowering
- Design and developing and emerging countries/contexts
- Relationships between design HEIs and social innovation for sustainability.

3.3 Concept of the session ‘Consumer research’

Organiser: Dr. Eivind Sto (e-mail: eivind.sto@sifo.no)

To the first workshop of SCORE we want to include papers that cover sustainability during the entire process of consumption from planning, buying, reshaping, using and recycling. You could either try to cover one of these phases in depth, or address the relationship between two or more phases. Our main focus will be on environmental sustainability, but the links between the social, economic, political and environmental sustainability are also highly relevant. Remember, the first workshop is designed for conceptual and theoretical contribution. We want to establish a platform for dialog with the other workshops (design, production and policy) and with the empirical cases discussed in the second phase of the project.

3.4 Concept of the session ‘System innovation policy’

Organiser: Dr. Maj Munch Andersen (e-mail: maj.munch.andersen@risoe.dk)

The SCORE project seeks to address SCP in the entire value chain. The system innovation part particularly should focus on uncovering the processes and dynamics of major radical systemic changes involving complementary changes in production and consumption patterns. The main focus will be on environmental sustainability, but the links between social, economic and environmental sustainability are also relevant.

There is much unclarity concerning the concepts of respectively ”system innovations” and ”innovation systems” within environmental research and policy making. The system innovation concept is developed and used within environmental research and urban planning, but not within innovation research. Within the innovation economic research concepts such as systemic change, technology evolution, technology life cycles, technological revolutions, techno-economic paradigm change and trajectory change are in use. These concepts have so far only to a limited degree been applied to the analysis of sustainable consumption and production. For the SCORE workshop we are looking for papers which a) contribute to a better understanding of the nature and dynamics of major environmental systemic changes involving changes in both production and consumption patterns and b) suggest policy recommendations for such changes.

The papers should be primarily theoretical but may include empirical argumentation and examples.

The papers should establish a platform for dialog with the other workshops (design, business and consumption) and form a basis for empirical cases work to be discussed in the second phase of the project starting mid 2006.

4 Practical information for presenters, discussants, rapporteurs and about the Session-wrap up's

4.1 Presenters

You have 20 minutes for your presentation; please do not plan for more. Please bring your presentation on a USB storage device and have it ready on the computer in the meeting room at least 10 minutes before the block in which you present.

As for the conclusions of your presentation, it would be nice to relate them to the concept of the workshop. As indicated, the workshop is a step in a process to come to a comprehensive insight into how radical changes to SCP can be governed, and what the contributions from business, design, consumers and (system) innovation policy can be. Potential concluding issues to address in a presentation hence could be:

- What do we learn from this paper about how to stimulate radical change for sustainable consumption?
- What are important gaps in the approach presented, and what could be the contribution of the other three perspectives to achieve good progress towards SCP and why?

4.2 Discussants

For each block of presentations, there will be 1 or 2 discussants that have as prime task to kick off the discussion in a well-prepared way, particularly by reading the paper in advance. Additional preparation is not expected:

- The discussant has 3-5 minutes at maximum to formulate his/her point (if applicable per presentation).
- In no way the discussant should use this time to make presentation of his/her own work. No written statements nor powerpoint slides are allowed. Conciseness simply works best.
- The discussant should try to identify the strengths and weaknesses of the paper in view of the key questions to be answered during the workshop on SCP governance, e.g. by addressing points like:
 - What are the strong points of the paper in view of learning points about governance for radical change to SCP?
 - Where are white spots or points for improvement of the argument and insight?
- If for some reason the paper did not reach the discussant in time, it is of course ok that the discussant kick-starts the discussion on the basis of listening to the presentation alone

4.3 Wrap-up sessions

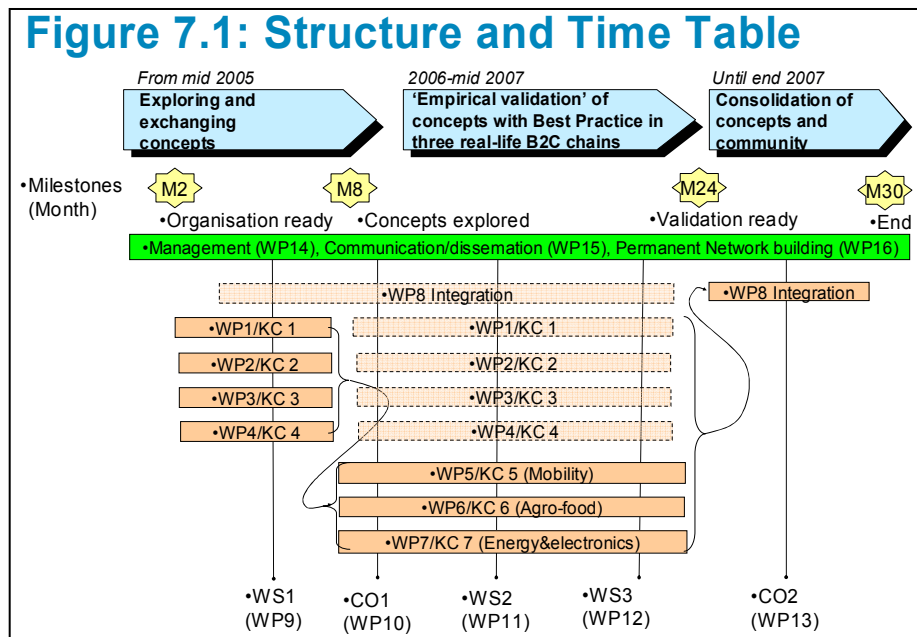
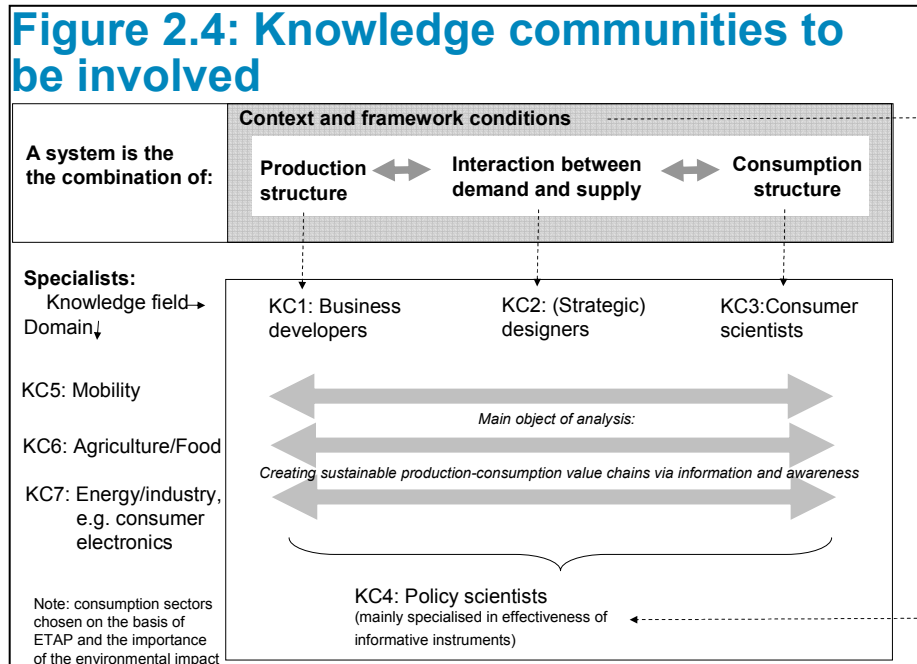
For each parallel session, there is a 20 minute wrap-up. After the workshop, the session leaders have each about a person-month left to write a review paper about the insights and theories from the science field central in the session on how radical changes to SCP can be understood and governed. In the ideal case, the Wrap-up session will give the session leader a kind of 'shopping list' for his or her work. Points for discussion in the Wrap-up session hence could be:

- Do we miss important strands of theory in what has been discussed thus far? What are important authors / papers not yet addressed that a session leader must address additionally in his/her review?
- What are the main points of agreement between the theories and concepts discussed? Could there even be a kind of common outline theory be developed?
- What are the main conceptual differences, points of disagreement, or 'white spots' in the field that the session leader should address in his/her review? Think also about issues like
 - trade off between parsimony and completeness
 - trade off between uniformity and pluriformity
- What is the limit with regard to insight and explanatory power with regard to SCP governance from the particular field central in the session? What could be the added value of the other fields?

4.4 Rapporteurs

Four members of the SCORE! co-ordination team that have no role as session chair will act as rapporteur. The role of the rapporteur is to pick up and write down essential conclusions, statements, or points of controversy with regard to the aforementioned key questions, which arise from the discussions in each session. This is not meant as a final word, but to produce a basis that the SCORE! team can use after the workshop to work out a coherent conceptual perspective on governance of radical change to SCP.

5 Concept of the SCORE project in three slides



Note: actual starting date was 1 October 2005

Figure 7.2: Focus per Event

Workshop 1	General platform for exchange of views how to realise sustainable consumption structures between the 33 Participants and Partners, from their own knowledge background.
Conference 1	Goals: •Launch the network in the EU arena •Provide a broad platform for conceptual exchange •Provide a broad platform for SC case presentation s
Workshop 2	WS2-4 are organised giving <u>consumption domains</u> centre stage. WS2 starts with discussing 5-10 SCP cases per domain from the 4 knowledge perspectives, analysing success- and failure factures, re-design potential, and danger of rebound effects
Workshop 3	WS3 abstracts the lessons of WS2 to a higher level, leading to concepts models and case typologies of successful implementation approaches for sustainable consumption in relation to user awareness. The result has to be implementation tools for successful approaches (e.g. how to organise information management for user awareness)
Conference 2	Conference 2 validates the results of the project and forms a dissemination and outreach to policy, industry, certification organisations and other bodies relevant for implementation

6 Participants in the SCORE project

Co-ordination team:

- Arnold Tukker, TNO, Delft, Netherlands (project manager)
- Sophie Emmert, TNO, Delft, Netherlands
- Maj Munch Andersen Riso, Roskilde, Denmark (chair: working group on system innovation policy)
- Martin Charter, The Centre For Sustainable Design, Farnham, UK (chair: working group on business development)
- Carlo Vezzoli, Polytechnico di Milano, Indaco, Milan, Italy (chair: working group on design)
- Eivind Sto, SIFO, Oslo, Norway (chair: working group on consumer research)
- Theo Geerken, Vito, Mol, Belgium (chair: working group on mobility)
- Ursula Tischner, Econcept, Cologne, Germany (chair : working group on food)
- Saadi Lahlou, Electricité de France, Clamart, France (chair: working group on energy use/housing)

Members:

- Robert Wimmer, GRAT, Austria
- Matthias Weber, ARC Seibersdorf, Austria
- Francois Jegou, SDS/Dalt, Belgium
- John Torgersen, Aarhus School of Business, Denmark
- Margit Keller, University of Tartu, Estonia
- Arouna. Ouédraogo, INRA, France
- Frank Belz, Technical University of Muenchen, Germany
- Gerd Scholl, IÖW, Germany
- Michael Kuhndt, UNEP/Wuppertal Institute Centre on Sustainable Consumption and Production, Germany
- Sylvia Lorek, SERI, Germany/Austria
- Wynand Bodewes, Erasmus University, Netherlands

- Han Brezet, Technical University Delft, Industrial Design Department, Netherlands
- Henk Mol, University of Groningen, Netherlands
- Rene Kemp, MERIT, Netherlands
- Edgar Hertwich, NTNU, Norway
- Christina Rocha, INETI/CENDES, Portugal
- Oksana Mont, IIIIEE, University of Lund, Sweden
- Rolf Wustenhagen, University of St. Gallen, Switzerland
- Sean Blair, Spirit Of Creation, UK
- Tim Cooper, Sheffield Hallam University, UK

7 List of Registered Workshop Participants

No	Name	Organisation	Country	E-mail
1	Maj Munch Andersen	Risoe	Denmark	maj.munch.andersen@risoe.dk
2	Françoise BARTIAUX	University of Louvain-la-Neuve	Belgium	bartiaux@demo.ucl.ac.be
3	Prof. Dr. Frank-Martin Belz	Technical University of Munich	Germany	Frank.Belz@wi.tum.de
4	GUNILLA BLOMQUIST	Swedish Ministry of Sustainable Development	Sweden	gunilla.blomquist@sustainable.ministry.se
6	Dr. Karl-Werner Brand	Technical University of Munich (TUM)	Germany	karl-werner.brand@sozialforschung.org
7	Halina S. Brown	Clark University	USA	hbrown@clarku.edu
8	Ceschin Fabrizio	Polytechnico di Milano	Italy	ceschinfabrizio@hotmail.com
9	Martin Charter	University College for the Creative Arts at Farnham	UK	mcharter@surrart.ac.uk
10	Tim Cooper	Sheffield-Hallam University	UK	thcooper@shu.ac.uk
11	Bas de Leeuw	UNEP	France	bas.deleeuw@unep.fr
12	Daniel de Wit	TNO	Netherlands	leestenaar@yahoo.com
13	Edgar Hertwich	Norwegian University of Science and Technology	Norway	edgar.hertwich@ntnu.no
14	Sophie Emmert	TNO	The Netherlands	Sophie.Emmert@TNO.nl
15	Andrea Farsang	Central European University	Hungary	ephfaa01@phd.ceu.hu
16	Christopher John Foster	Manchester Business School	UK	chris.foster@mbs.ac.uk
17	Theo Geerken	VITO	Belgium	theo.geerken@vito.be
18	Kirsten Gram-Hanssen	Danish Building Research Institute	Denmark	kgh@sbi.dk
19	Andrea Zenobio Gunneng	University of Oslo	Norway	andrea.gunneng@sum.uio.no
20	Stephane Isoard	EEA	Denmark	Stephane.Isoard@eea.eu.int
21	Mikko Jalas	Helsinki School of Economics	Finland	mikko.jalas@hse.fi
22	François Jégou	Strategic Design Scenarios	Belgium	francois.jegou@solutioning-design.net
23	Michael Soegaard Joergensen	Technical University of Denmark	Denmark	msj@ipl.dtu.dk

24	Peter Joore	TNO	Nederlands	peter.joore@tno.nl
25	Myung Joo Kang	GrAT (Centre for Appropriate Technology)	Austria	kang@grat.at
26	Pawel Kazmierczyk	EEA	Denmark	Pawel.Kazmierczyk@eea.eu.int
27	Rene Kemp	UNU-MERIT, ICIS and DRIFT	The Netherlands	r.kemp@merit.unimaas.nl
28	Maie Kiisel (instead of Margit Keller)	University of Tartu	Estonia	maie.kiisel@ut.ee
29	Maie Kiisel	University of Tartu	Estonia	maie.kiisel@ut.ee
30	Cindy Kohtala	University of Art & Design Helsinki	Finland	cindy.kohtala@welho.com
31	Kornelia Konrad	Eawag	Switzerland	kornelia.konrad@eawag.ch
32	Saadi LAHLOU	EDF	France	saadi.lahlou@edf.fr
33	Benny, Chin Hong Leong	Hong Kong Polytechnic University	China	sdbenny@polyu.edu.hk
34	Mattias Lindhal	KTH	Sweden	malin@ikp.liu.se
35	Sylvia Lorek	Sustainable Europe Research Institute	Germany	sylvia.lorek@seri.de
36	Simone Maase	Eindhoven University of Technology	the Netherlands	s.j.f.m.maase@tue.nl
37	John Manoochchri	Royal Institute of Technology (KTH), Stockholm	Sweden	jm@johnmanoochchri.net
38	Anne Marchand	University of Calgary	Canada	amarcha@ucalgary.ca
39	Orsola Mautone	EEA	Denmark	Orsola.Mautone@eea.eu.int
40	Sashank Mehta		India	shashank@nid.edu
41	Henk Moll	University of Groningen	The Netherlands	h.c.moll@rug.nl
42	Oksana Mont	Lund University	Sweden	oksana.mont@iiiee.lu.se
43	Lars Fogh Mortensen	European Environment Agency	Denmark	lars.mortensen@eea.eu.int
44	Birgit Munck-Kampmann	ETC/RWM	Denmark	etcw-bmk@mst.dk
45	Arouna OUEDRAOGO	INRA	France	arouna.ouedraogo@ivry.inra.fr
46	Dario Padovan	University of Torino	Italy	dario.padovan@unito.it
47	Adriaan Perrels	VATT	Finland	adriaan.perrels@vatt.fi
48	Lucia A. Reisch	Copenhagen Business School	Denmark	lucia.reisch@nwd-institut.de
49	Teresa Ribeiro	EEA	Denmark	teresa.ribeiro@eea.eu.int
50	Maria Cristina Tomás Ferreira de Sousa Rocha	INETI	PORTUGAL	cristina.rocha@ineti.pt
51	Inge Røpke	Technical University of Denmark	Denmark	ir@ipl.dtu.dk
52	Chris Ryan	Australian Centre for Science Innovation and Society, University of Melbourne	Australia	cryan@unimelb.edu.au
53	Gerd Scholl	Institute for Ecological	Germany	gerd.scholl@ioew.de

		Economy Research (IÖW)		
54	Peter Schreck	PS Problem&Solution	Germany	p.schreck@mba.zollverein-school.de
55	Dr. Irmgard Schultz	Institute for Social-Ecological Research (ISOE)	Germany	schultz@isoe
56	David Stanners	EEA	Denmark	david.stanners@eea.eu.int
57	Fred Steward	Brunel University	UK	fred.steward@brunel.ac.uk
58	Eivind Stø	National Institute for Consumer Research	NORWAY	eivind.sto@sifo.no
59	John Thøgersen	Aarhus School of Business	Denmark	jbt@asb.dk
60	Harld Throne-Holst	National Institute for Consumer Research	NORWAY	harald.throne-holst@sifo.no
61	Ursula Tischner	econcept	Germany	u.tischner@econcept.org
62	Arnold Tukker	TNO	Netherlands	arnold.tukker@tno.nl
63	BURCU TUNCER	UNEP/Wuppertal Institute Collaborating Centre on Sustainable Consumption and Production (CSCP)	Germany	burcu.tuncer@scp-centre.org
64	VADOVICS EDINA	CENTRAL EUROPEAN UNIVERSITY	HUNGARY	ephvae01@phd.ceu.hu
65	Philip J. Vergragt	MIT	USA	phjvergragt@tiscali.nl
66	Martijn Verkuijl	econcept	Germany	m.verkuijl@econcept.org
67	Carlo Vezzoli	DIS-Politecnico di Mialno	Italy	carlo.vezzoli@polimi.it
68	Axel Volkery	EEA	Denmark	Axel.Volkery@eea.eu.int
69	Marcus Wagner	Tech University of Munich	Germany	wagner@wi.tum.de
70	Matthias Weber	ARC systems research GmbH	AUSTRIA	matthias.weber@arcs.ac.at
71	Peter Wells	BRASS, Cardiff University	Wales	wellspe@Cardiff.ac.uk
72	Robert Wimmer	GrAT (Centre for Appropriate Technology)	Austria	rw@grat.at
73	Rolf Wüstenhagen	University of St. Gallen	Switzerland	rolf.wuestenhagen@unisg.ch
74	Bartosz Zambrzycki	EEA	Denmark	Bartosz.Zambrzycki@eea.eu.int