Sustainability transitions and wider transformative change: historical roots and







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Chair's welcome

It is my pleasure to welcome you to the sixth International Sustainability Transitions Conference.

This year's conference seeks to place sustainability transitions in a long term perspective, considering its historical roots and future pathways. The conference will not only explore transitions in individual systems, but also investigate broader transformations of entire economies, societies and political systems. I am sure many presentations will advance the frontier of knowledge and practical application.

The conference includes a wide range of activities and sessions, as well as a lively social programme. I am pleased to offer newcomers the opportunity to attend a special PhD-led introductory session. In addition to research sessions and paper presentations there are new dialogue sessions, which aim to stimulate debate about sustainability transitions but are not based on papers per se. I am also delighted that there are a great number of sessions on global issues and more participants from developing countries than at previous conferences, illustrating the growing size and breadth of our community. Through dedicated group work sessions, all delegates will have the opportunity to participate in evaluating and building a new research agenda for the network.

The world faces persistent problems: economic crises and rising inequality are coinciding with a growing realisation that current models of meeting our basic needs – whether in food, energy, water or resources – are unsustainable. This is a challenge that will stay with us when economic growth returns, and it will probably only worsen as time progresses – risking even more climate change and profound societal turmoil, tensions and war.

The challenge cannot be solved by optimising current scientific and technological solutions, burning more fossil fuels, investing more money in high-tech medicine, nor by globalising value chains and continuing to promote car-based mobility patterns. As we have been arguing within our community we need to move away from a costly 'business as usual approach' and address these issues head on in an inclusive way recognising the conflicts and power struggles involved. We always need to ask the question who is benefitting and who is losing, in particular during transitions.

The Sustainability Transitions research community is well placed to make major contributions, but only when it continues to develop as an academic field as well as engage with and provide inspiration for people actively involved in shaping the world in transition. My expectation and hope is that this conference will run in this spirit.

I do hope that you will enjoy taking part in the conference.

Johan Schot



Johan Schot
Professor in the History of Technology and
Sustainability Transitions Studies,
SPRU – Science Policy Research Unit,
University of Sussex

Keynote speakers

Sustainability transitions and EU policy

Transitions research has advanced markedly in recent years but the links to policy could be further strengthened. SOER 2015, the five-yearly flagship report of the European Environment Agency (EEA), provides a resource that can help in achieving that goal, setting out a robust evidence base demonstrating the need for systemic transitions, and a clear link to the European policy framework stretching as far ahead as 2050.

The report finds that although European policy has delivered clear benefits, Europe faces a variety of persistent and emerging environmental challenges, intimately linked to its socio-economic systems of production and consumption, and the changing global context. The systemic characteristics of these challenges necessitate systemic responses. European policy must therefore shift its focus towards addressing production-consumption systems in an integrated way, thereby enabling fundamental transitions in the socio-economic systems that fulfil societal needs (such as for food, mobility and energy). Therefore there is a need for Europe to adapt its fiscal, finance and education systems in order to overcome the lock-ins to prevailing approaches, and to manage the impacts of global megatrends in the decades ahead.

Follow-up session discussants

Nikos Kastrinos

EU's Horizon 2020 programme

Louis Meuleman

European Commission

Karoline Rogge

Science Policy Research Unit



Hans Bruyninckx

Hans Bruyninckx is the Executive Director of the European Environment Agency. He joined the EEA on 1 June 2013. In 1996 Dr Bruyninckx completed a PhD in international environmental politics at Colorado State University. From 2010 until his appointment at the EEA, he was head of the HIVA Research Institute in Leuven, Belgium, a policy-oriented research institute associated with the Katholieke Universiteit Leuven, where he was also head of the Political Science department from 2007 to 2010.

Over the last 20 years, he has conducted research in more than a dozen countries, in areas including environmental politics, climate change, and sustainable development. He has taught on global environmental politics and global environmental governance in relation to the European Union, publishing extensively on EU environmental policies and the EU's role as an actor in global environmental governance. Throughout his career Dr Bruyninckx has worked with government agencies, civil society and businesses, often in an advisory role.

In times of transition: the role of game changers

More and more people recognise that we live in times of transition: a change of eras rather than an era of change - a rare period of profound and irreversible changes in our economy and society. Our society is gradually shifting from a centralised, top-down hierarchical society towards a decentralized, bottom-up, horizontal society, with an important role for entrepreneurial citizens. We therefore speak of a Great Transition, that will lead to new structures and institutions. Such a tipping period phase might take a few decades and is characterised by chaos, turbulence and uncertainty. In such a tipping point period the role of game changers (or topplers) is of crucial importance, because old structures become vulnerable, whereas new ones need to be built up.

The keynote lecture addresses two parts. The first part is about the Great Transition that is unfolding in Europe, addressing the contours of a new society and new economy. The second part is about the role of game changers, where it is empirically reflected upon two game changers in the Netherlands, working in the fields of health care and the building sector. Their game changing strategies are analysed and explained and put in the context of transition governance.

Follow-up session discussants

Geert Wilms

Royal HaskoningDHV and Director of Agricultural Innovation Brabant (LIB)

Jan-Willem van de Groep

Strategic Director for the programme 'EnergieSprong', and strategic advisor of the Ministry of Internal Affairs

Chris Rowland

Founding Director and project coordinator, Ouse Valley Energy Services Company (OVESCO)

Keynote speakers



Jan Rotmans

Jan Rotmans is a socially engaged scientist, with more than 200 publications in the field of climate change and global change modelling, sustainable development, and transitions and system innovations.

After his PhD-research and work at RIVM he became the youngest professor of the Netherlands in 1997, at the Maastricht University (ICIS: International Centre for Integrative Studies). In September 2004 he founded the new research institute DRIFT, Dutch Research Institute For Transitions, and became full professor in transitions and transition management at the Erasmus University Rotterdam.

Apart from his scientific work he also wants to contribute to a better and sustainable society. Therefore a radical change, a transition, is necessary. With his knowledge he would like to make up the rules and transmit them to the people involved in any project, region or sector, so that they can give it a swing into a more sustainable direction. For a more sustainable future in the Netherlands he co-founded the Urgenda in 2007 and Nederland Kantelt in 2014. He tries to encourage as many people as possible to join this movement.

Transformations in global governance for sustainability

Sponsored by Future Earth

Future Earth, a new global platform for global change research and action, has taken as one of its core themes 'Transformations towards Sustainability'. The theme addresses critical knowledge gaps in how societies might address global environmental and sustainability challenges through transformative change. A central problem concerns the governance of transformation of sociotechnical and socio-ecological systems. Global governance is itself undergoing profound change.

Drawing on his new book Earth
System Governance: World Politics in the
Anthropocene, Professor Biermann will
discuss how transformations in governance
could influence transformations towards
sustainability.

Follow-up session

The idea of transformation has become widely-adopted across the social and natural sciences over the past decade. A new International Social Science Council/Future Earth programme on 'Transformations to Sustainability' seeks to deepen theoretical and practical knowledge about transformations in social systems. Three participants in the programme will discuss how they have engaged with the notion of transformation in their research, with the aim of stimulating debate with scholars in the STRN community.

Discussants

Melissa LeachInstitute of Development Studies

Frans BerkhoutKing's College London



Frank Biermann

Frank Biermann is Professor of Political Science and of Environmental Policy Sciences at the VU University Amsterdam, The Netherlands, and Visiting Professor of Earth System Governance at Lund University, Sweden. He specialises in the study of global environmental politics, with emphasis on climate negotiations, UN reform, global adaptation governance, public-private governance mechanisms, the political role of science, and North-South relations. He pioneered the concept of 'earth system governance' in 2005, which has evolved into a major global research programme in this field.

Programme overview

Tuesday 25 August

Time	Activity
13.00–17.00	Registration opens
14.00-16.00	Introduction to newcomers (PhD led session)
16.00-16.45	Instructions to chairs of small groups meeting
16.30–17.00	Welcome drinks and canapés
17.00–17.15	Conference opens Welcome and introductions
17.15–18.00	Shaping the future transitions research agenda (round 1)
18.15–19.15	Plenary I Keynote: Sustainability transitions and EU policy Hans Bruyninckx, Executive Director at the European Environment Agency (EEA)
19.30	Dinner

Wednesday 26 August

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Time	Activity
07.30-08.15	Yoga
09.00-10.30	Parallel session A
10.30-11.00	Break
11.00-12.00	Parallel session B
12.00-13.00	Poster session
13.00-14.00	Lunch
14.00–14.45	Plenary II Keynote: In times of transition: the role of game changers Jan Rotmans, Professor in Sustainability Transitions at Drift, Erasmus University Rotterdam
14.45–16.15	Parallel session C
16.15–17.15	Shaping the future transitions research agenda (round 2)
17.15–18.15	Parallel session D
19.30	Optional volleyball and BBQ

Thursday 27 August

Time	Activity
07.30-08.00	Boundary run
09.00-10.30	Parallel session E
10.30-11.00	Break
11.00-12.30	Parallel session F
12.30-13.30	Lunch
13.30-14.15	Plenary III Keynote: Transformations in global governance for sustainability (Sponsored by Future Earth) Frank Biermann, Professor of Political Science and Environmental Policy Sciences, VU University Amsterdam
14.15–15.45	Parallel session G
15.45–16.45	Shaping the future transitions research agenda (round 3)
16.45-18.15	Parallel session H
19.00-late	Conference dinner and party

Friday 28 August

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Time	Activity
07.30-08.15	Chi-gung
09.00-10.30	Parallel session I
10.30-11.00	Break
11.00-12.30	Parallel session J
12.30-13.30	Lunch
13.30-14.30	Parallel session K
14.30-16.00	Parallel Session L
16.00-17.00	Plenary IV Reflections on the conference and research agenda Jonas Torrens and Elsie Onsongo, PhD students
17.00	Farewell drinks and canapés

Tuesday 25 August

AFTERNOON

13.00-17.00 • Registration opens [Jubilee Atrium]

14.00-16.00 • Introduction to newcomers [ARTS A]

16.00–16.45 • Instructions to chairs of small groups [ARTS A]

16.30-17.00 • Welcome drinks and canapés [Jubilee Atrium]

17.00-17.15 • Conference opens [Jubilee Atrium]

Welcome and introductions

Frank Geels, Johan Schot, Charlotte Humma

17.15–18.00 • [Multiple locations]

Shaping the future transitions research agenda (round 1)

18.15-19.15 • Plenary I [Jubilee Large Lecture Theatre]

Keynote: Sustainability transitions and EU policy

Hans Bruyninckx

19.30 • Dinner [Dine Central, Bramber House]

14.00-16.00

Introduction to newcomers

[ARTS A]

This PhD-led session is aimed at creating a space for questions normally not asked in the conference. The session is flexible to accommodate the needs of those participating, and it will allow PhDs, early career researchers and newcomers to the sustainability transitions field to discuss and clarify long held doubts, to reflect on the history of the field, its major contributions and policy impact, key debates and current developments.

A diverse group of researchers will take part, in a open fishbowl format, to fuel the discussion, which will be guided by those taking part. It has a welcoming and informal setting that will help those participating to soft-land and make the most of the conference.

17.15-18.00

Shaping the future transitions research agenda

[Multiple locations]

The conference incorporates three sessions dedicated to the evaluation and development of a new research agenda for STRN. The current agenda was developed by the network's steering group and set to last for three years. It is now six years old and in need of updating.

These sessions provide an opportunity for all delegates at the conference to take part in the process. Upon arrival, participants will be allocated into groups that will work together throughout the three sessions. Each group will be chaired by a PhD student, that will be responsible for reporting back.

The first session will focus on individual introductions and a

general discussion of the current agenda. This discussion can continue in the second session, at the end of which, each group will have selected a topic for inclusion into the new research agenda. In the third session, each group is to elaborate on the topic and produce a short text that explains the concept and why it is important.

This is the first of three sessions that provide an opportunity for all participants at the conference to evaluate and develop a new research agenda for STRN.

Participants will be allocated to groups.

Wednesday 26 August

MORNING

$09.00-10.30 \cdot Parallel session A$

A1

Plenary follow up - Sustainability transitions and EU policy

[G22]

A2

Strategies of incumbents in transition processes policy

A3

Innovation systems and transitions

[135]

A4

Urban transitions (I)

[G31]

Multi-level analysis of transitions (I) [G36]

A5

A6

Role and evaluation of labs in transitions

[143]

10.30-11.00 • Break [Atrium]

11.00-12.00 • Parallel session B

B1

Financial services and transitions [G35]

B2

Transitions and design

B3

Dialogue session: Sharing: the future? Can we establish a sharing culture, and if so, could it lead a transformation to sustainability?

[G31]

B4

Dialogue session: **Transitions and** critical realism - possible ways forward

[135]

B5

Critical perspectives: the neglect of gender and poverty issues in transition studies

B6

Dialogue session: Scenario modelling and socio-technical analysis: opening up a timely debate about integration and linking strategies to address the governance challenges of sustainability transitions

B7

Dialogue session: Sustainable campus [115]

[G22]

12.00-13.00 • Poster session [Jubilee Atrium]

Please see page 20 for full list

13.00-14.00 • Lunch [Atrium]

Key

Modelling

Technical innovation system

Firm strategy

Multi-level perspective

Governance and politics

Other

Location

Wednesday 26 August • MORNING Parallel sessions (detail)

09.00-10.30

Parallel session A

A1 Plenary follow up – Sustainability transitions and EU policy

[G22]

Moderator: Johan Schot Discussants: Nikos Kastrinos, Louis Meuleman, Karoline Rogge

A2 Strategies of incumbents in transition processes policy

[115]

Chair: Paula Kivimaa

Innovating incumbents on the boundary – a study of boundary tensions in communication Anne-Charlotte Hoes, PJ Beers, Barbara van Mierlo

Explaining differences in electric vehicle policies across countries *J.H. Wesseling, Lars Coenen*

Accelerating transitions to sustainability by slowing down: translating narratives of sufficiency into business strategy *Karoline Augenstein, Alexandra Palzkill*

A3 Innovation systems and transitions

[G35]

Chair: Bernhard Truffer

Moving beyond the innovation focus: expanding the innovation systems framework for explaining transformative change *K. Matthias Weber, Harald Rohracher*

System innovation of innovation

systems Henrik Larsen, Gijs Diercks

A4 Urban transitions (I)

Chair: Ralitsa Hiteva

Governing urban water transitions in Denmark: in between innovation of functions and innovation of place C.F. Fratini, J. S. Jensen

Urban transformative capacity: a conceptual framework for research and policy Marc Wolfram

Exploring Urban Resilience through Sustainability Transitions Andréanne Doyon

A5 Multi-level analysis of transitions (I)

[G36]

Chair: Rob Raven

A multi-level perspective of the German heat domain – findings from in-depth research on landscape, regime and niche interactions Laura Echternacht, Holger Berg

Unleashing new entrants versus working with incumbents: a comparative multi-level analysis of the ongoing German and UK low-carbon electricity transitions (1990–2013) F.W. Geels, F. Kern, G. Fuchs, N. Hinderer, G. Kungl, M. Neukirch, S. Wassermann

Transformation of mature infrastructure systems: the privatisation of Great Britain's railway Katherine Lovell

A6 Role and evaluation of labs in transitions

[143]

Chair: Niki Frantzeskaki

Understanding and creating societal impact of sustainability transitions research through 'real-world laboratories'

Franziska Stelzer, Matthias Wanner, Niko Schäpke

Agents of change in socio-technical systems – through a 'Challenge Lab' as a triple helix co-evolution catalyst. John Holmberg, David Andersson-Collado,

Learning through evaluation – a generic evaluative scheme for sustainability transition experiments Christopher Luederitz, Niko Schäpke, Daniel J. Lang, Arnim Wiek

11.00-12.00

Parallel session B

B1 Financial services and transitions

[G35]

Chair: Anna Wieczorek

Inclusive innovation and multi-regime dynamics: the case of mobile money in Kenya

Elsie Onsongo, Johan Schot

The role of Credit Unions and ethical finances in the transition towards 'sustainable and solidarity economies' Ricardo García-Mira, Adina Dumitru, Isabel Lema-Blanco

B2 Transitions and design

Chair: Sabine Hielscher

Transition design: an educational framework for advancing the study and design of sustainable transitions Terry Irwin, Cameron Tonkinwise, Gideon Kossoff

Design in transition, transition design Adrià Garcia I Mateu

B3 Dialogue session: Sharing: the future? Can we establish a sharing culture, and if so, could it lead a transformation to sustainability?

[G31

Convenor: Duncan McLaren Chair: Mike Childs Panellists: Helen Goulden, Johan Schot, Duncan McLaren

B4 Dialogue session: Transitions and critical realism – possible ways forward

[135]

Convenors: Alexandra Nikoleris, Fanny Paschek, Oscar Svensson Panellists: Margaret Archer, Mervyn Hartwig, Peter Pelzer, Nina Vogel

B5 Critical perspectives: the neglect of gender and poverty issues in transition studies

[143]

Chair: Ed Steinmueller

Positioning researchers, encounter spaces and gender in sustainability transitions

Ralitsa Hiteva, Mari Martiskainen

Is there room for poverty (alleviation) in the transitions to sustainability approach? A theoretical discussion Mónica Ramos-Mejía, Maria-Laura Franco-Garcia, Juan M. Jauregui-Becker

B6 Dialogue session:
Scenario modelling and
socio-technical analysis: opening
up a timely debate about
integration and linking strategies
to address the governance
challenges of sustainability
transitions

[G22]

Convenors: Frans Berkhout, Bruno Turnheim Panellists: Frank Geels, Jonathan Köhler, Karolina Safarzynska, Timothy Foxon, Neil Strachan

B7 Dialogue session: Sustainable campus

[115]

Convenor: Jake Barnes Chair: Clare Mackie Panellists: Carlos Mataix, Laura Grossmann, Jorn Scharlemann

Wednesday 26 August

AFTERNOON

14.00-14.45 • Plenary II [Jubilee Large Lecture Theatre]

Keynote: In times of transition: the role of game changers

Jan Rotmans

14.45-16.15 • Parallel session C

Plenary follow up – In times of transition: the role

of game changers
[G22]

C2

The interplay of new entrants and incumbents in transition processes

[115]

C3

[G31]

Global extensions to the technological innovation systems approach C4

Urban transitions (II) [135] **C**5

Multi-level analysis of transitions (II) C6

Transitions in agricultural systems

C7

Niche protection and protective space

16.15–17.15 • [Multiple locations]

Shaping the future transitions research agenda (round 2)

17.15-18.15 • Parallel session D

D1

Dialogue session:
Out of the
theoretical box –
the contribution
of models to
the impact of
transition studies

[G22]

D2

Dialogue session: Sustainable energy transitions as an object of political economy

[G31]

D3

Dialogue session: Governance of green growth in the energy sector: resilience as a boundary object between SES, STS and TIS thinking

[135]

D4

SESSION CANCELLED

D5

Dialogue session:
Policies for
sustainable
transitions
- challenges
and lessons for
policies at the
regional, national
and European
level

[**G**36]

D6

Dialogue session: Sustainability transitions and energy demand – the state of play? [115] **D7**

Skills development session: What is distinctive about careers in sustainability?

Key

Modelling

Firm strategy

Technical innovation system

Urban

Governance and politics

Other

Location

Multi-level perspective

Wednesday 26 August • AFTERNOON Parallel sessions (detail)

14.45-16.15

Parallel session C

C1 Plenary follow up -In times of transition: the role of game changers

[G22]

Moderator: John Grin Discussants: Geert Wilms, Jan-Willem van de Groep, Chris Rowland

C2 The interplay of new entrants and incumbents in transition processes

[115]

Chair: Caetano Penna

The role of new entrants and incumbents in cleantech innovation Stefano Pedrocchi, Floortje Alkemade, Carolina Castaldi

Exploring cross-sectorial dynamics and reconsidering regime-niche interactions

Markus Steen, Tyson Weaver

Community intermediaries and the local embedding of energy technologies: a dynamic model and case study Jake Barnes

C3 Global extensions to the technological innovation systems approach

[G31]

Chair: Marko Hekkert

Global innovation systems and sustainability transitions - towards an integrative framework Bernhard Truffer, Boris Battistini

Exploring internationalization and transnational links in technological innovation systems

Hakon Endresen Normann, Jens Hanson

Hybrid analytical approaches for hybrid technological sectors: the case of the Building-Integrated Photovoltaics innovation system Evangelos Gazis, Chiara Candelise, Mark Winskel

C4 Urban transitions (II) [135]

Chair: Roman Seidl

Intermediaries and learning in sustainability-oriented urban transitions: a transdisciplinary case study from Stellenbosch Municipality Megan Davies, Mark Swilling

Towards urban mobility transitions in Seoul: a socio-technical system analysis and identification of policy options for a breakthrough of cycling as a commuting mode Junhan Kim

C5 Multi-level analysis of transitions (II)

[G36]

Chair: Lea Fünfschilling

Low-carbon transitions through gradual reconfiguration: analysing transformations in production and consumption in the UK electricity system (1990–2014) Andy Mcmeekin, Frank W. Geels, Mike Hodson

The dynamics of geothermal energy technology deployment in the **Philippines**

Katsumasa Hamaguchi, Masaru Yarime

Analysing the transformation pathway of Jordan's electricity system Georg Holtz, Thomas Fink

C6 Transitions in agricultural systems

[G35]

Chair: Laurens Klerkx

Processes of structural change in agriculture: lessons from and lessons for transition theory F. Hermans, F. Appel, A. Balmann, L. Chatalova, C. Sahrbacher, Z. Sun, V. Valentinov

Food for the future: reconfiguration or transformation of current agro food

Joyce Zwartkruis, Sonia Carvalho Ribeiro, Henk Westhoek, Marcel Kok

How the public sector could support bioscience innovation in Africa: agricultural innovation systems in Uganda and Tanzania Julius Ecuru, Måns Nilsson, Ivar Virgin, Pantaleon Chuwa

C7 Niche protection and protective space

[143]

Chair: Vasileiadou

Development of new energy vehicles in China: a case of 'protective space' Li Ping, Dennis Zuev, David Tyfield

Learning to shield - policy learning in socio-technical transitions Wouter Boon, Sjoerd Bakker

Is moving to tenders risky when approaching the end of niche protection? Katherina Grashof

17.15-18.15

Parallel session D

D1 Dialogue session:

Out of the theoretical box - the contribution of models to the impact of transition studies

[G22]

Convenors: Georg Holtz, Jonathan Köhler, Fjalar de Haan Chair: Jonathan Köhler Panellists: Uwe Schneidewind, Derk Loorbach, Floortje Alkemade, Fjalar de Haan

D2 Dialogue session: Sustainable energy transitions as an object of political economy

Convenor: Aleh Cherp Panellists: Aleh Cherp, Lucy Baker, Jessica Jewell, Florian Kern, Caroline Kuzemko, Matthew Lockwood, Mark Winskel

D3 Dialogue session: Governance of green growth in the energy sector: resilience as a boundary object between SES, STS and TIS thinking

[135]

Convenors: Claudia R. Binder, Romano Wyss Panellists: Jeroen van den Berah, Roman Seidl, Markus Meyer

D4 SESSION CANCELLED

Dialogue session: **Policies for sustainable** transitions - challenges and lessons for policies at the regional, national and European level

Convenor: Ulrik Jorgensen Panellists: Fred Stewart, Johan Schot

D6 Dialogue session: Sustainability transitions and energy demand - the state of play?

[115]

Convenors: Jake Barnes and Mari Martiskainen Panellists: Frank Geels, Andy McMeeking, Gill Seyfang

D7 Skills development session: What is distinctive about careers in sustainability?

[143]

Convenor and Chair: Jonas Torrens Andy Stirling, Derk Loorbach, Flor Avelino, David Andrew Quist, Ana Jakil

Thursday 27 August

MORNING

$09.00-10.30 \cdot Parallel session E$

E1

System dynamics modelling as a tool for transition research

[135]

E2

Dialogue session: Experiencing the fifth space bridging dialogues of transitions between east and west

E3

Research session: Energy-related innovation systems analyses to support political interventions [G22]

E4

Research session: Accelerating sustainability transitions in city-regions

[155]

E5

Re-thinking the multi-level perspective on transitions

E6

[G36]

Technological innovation systems perspective meets multi-level perspective

E7

Niche development [143]

10.30-11.00 • Break [Atrium]

11.00-12.30 • Parallel session F

F1

Modelling approaches to transitions [G36]

[G35]

Patterns in green industry development

[G22]

Dialogue session: The innovative society

[G35]

Transitions and urban planning

Dialogue session: "We don't change policies depending on elections" -Transitions and democracy in **Europe**

[135]

F6

Different perspectives on the diffusion of low carbon systems and technologies [G31]

Dialogue session: Making transitions happen: discussing insights from applying transition theories in practical Climate-KIC initiatives

[143]

12.30-13.30 • Lunch [Atrium]

Key

Modelling

Firm strategy

Technical innovation system Urban

Multi-level perspective

Governance and politics

Other

Location

09.00-10.30

Parallel session E

E1 System dynamics modelling as a tool for transition research

[135]

Chair: Frans Berkhout

Smart policies in socio-technical transitions: a system-dynamics model of technological innovation systems Bob Walrave, Rob Raven

Dynamics of technology platforms: Their influence and significance for sociotechnical transition research George Papachristos

Dialogue session: Experiencing the fifth space – bridging dialogues of transitions between east and west

[G35]

Convenors and panellists: Lillian Strand, Ashraf Patel, Arjun Shekhar

Research session: Energy-related innovation systems analyses to support political interventions

[G22]

Convenor: Thomas Magnusson Chair: Marko Hekkert

System strengths and weaknesses in progressing sustainable technology: the case of Swedish biorefinery development

Hans Hellsmark, Johanna Mossberg, Patrik Söderholm and Johan Frishammar

Lock-in and the need for direction: an analysis of the development and diffusion of electrified heavy vehicles for urban traffic

Thomas Magnusson, Christian Berggren

The importance of informed political direction: An analysis of the Swedish marine energy innovation system Johnn Andersson, Eugenia Perez Vico, Linus Hammar

E4 Research session: Accelerating sustainability transitions in city-regions

[155]

Chair: Markus Egermann Moderator: John Grin

A conceptual framework to study acceleration dynamics in European city-regions Markus Egermann, Florian Kern,

Niki Frantzeskaki

An accelerating sustainability transition in Brighton & Hove? (uneven) progress and challenges ahead

Rachael Durrant, Florian Kern, Gordon MacKerron

Acceleration ahead? Promising approaches and setbacks on the path to a sustainability transition in Dresden

Kristin Reiß, Franziska Ehnert, Andreas Blum, Markus Egermann

E5 Re-thinking the multi-level perspective on transitions [G31]

Chair: Anne-Marie Coles

Making serious inroads into achieving sustainable development: is strategic niche management/transition management sufficient to transform the industrial state?

Nicholas Ashford

From multiple levels to entangled streams: dynamics of structuration and agency in sociotechnical transformations

Andy Stirling, Saurabh Arora

Entrenchment in transitions: the explicit accounts of systemic dependences *Malte B. Rödl, Claes Andersson*

E6 Technological innovation systems perspective meets multi-level perspective

[G36]

-Chair: Cian O'Donovan

Prospecting development of sustainable innovations in a context of multiple technology systems: the case of high value platform chemicals from food waste

Johanna Ulmanen, Emma Rex and Johan Torén

Identifying barriers to wind energy diffusion in Colombia: through the lens of an extended TIS function approach Hans-Erik Edsand

Energy transition in Switzerland – development options for fuel cells and implications for innovation management Jörg Musiolik, Bettina Furrer

E7 Niche development

[143]

Chair: David Tyfield

Case study analysis of precinct transition tools – learning and information flows influencing future city-scale transformation Wendy Yeomans, Dena Fam, Stuart White

Governance in niche development for a transition to a new mobility regime Stephen Potter, Alan-Miguel Valdez, Per-Anders Langendahl, Matthew Cook

Assessing niche development of Net Zero Energy Buildings (NZEB) in India Mansi Jain, Thomas Hoppe, Hans Bressers

11.00-12.30

Parallel session F

F1 Modelling approaches to transitions

[G36]

Chair: Jonathan Köhler

Use of participatory modeling in transition governance processes *Johannes Halbe, Sampsa Ruutu*

Where will it all start? A model based search for spaces of niche formation for new sanitation systems
Eggimann Sven, Truffer Bernhard,
Maurer Max

A macro-evolutionary model of the joint dynamics of technology, finance and energy systems Karolina Safarzynska, Jeroen C.J.M. van den Berah

F2 Patterns in green industry development

[G22]

Chair: Jim Watson

Global development trajectories in the wind and solar sector: how technology-related differences shape the dynamics of international knowledge transfer Rainer Quitzow, Joern Huenteler

Technological trajectory choice and diversification of firms in emerging industries under market-pull policy: The case of China's electric vehicle

Sooner, faster: deployment of wind power in latecomer countries Jorrit Gosens, Fredrik Hedenus, Biörn A. Sandén

F3 Dialogue session: The innovative society

Lei Xu, Henry Lee, Jun Su

[G35]

Convenors: Jake Barnes, Rachael Durrant, Sabine Hielscher, Rebecca White, Flor Avelino Chair: Jake Barnes Panellists: Cat Fletcher, Irene Soler

F4 Transitions and urban planning

[155]

Chair: Peter Walsh

Challenges and opportunities for sustainability transition foresight in urban planning practice: a case study of the 'Suwon 2030' basic plan and vision

Kyu-young Han, Kyung A Kim

EcoCities' model districts – towards an analytical framework Philipp Späth

Urban labs for urban governance Maya Essebo, Rene Kemp, Christian Scholl, Per-Anders Hillgren, Mette Agger Eriksen, Anna Seravalli

F5 Dialogue session: "We don't change policies depending on elections" – transitions and democracy in Europe

[135]

Convenors: Cian O'Donovan, Phil Johnstone Chair: Hannah Lownsbrough Panellists: Guppi Bola, Tina Caballero

F6 Different perspectives on the diffusion of low carbon systems and technologies

[G31]

Chair: Matthias Weber

Technology competition and variety: when does it take longer to diffuse? George Papachristos, Jeroen C.J.M. van den Berah

Adoption, upscaling, replication/circulation, and societal embedding: four theoretical models of technology diffusion applied to biomass district heating systems in Austria (1979–2013)

Victoria Johnson, Frank W. Geels

Energy performance contracting for the diffusion of green-manufacturing technologies in China: impasses and trade-offs between key stakeholders Yuan Zhou, Peng Liu, Lan Xue

Dialogue session Making transitions happen: discussing insights from applying transition theories in practical Climate-KIC initiatives

[143]

Convenors: Fred Steward, Anna J. Wieczorek Chair: Fred Steward Panellists: Anna J. Wieczorek, Ian Short, Lydia Sterrenberg, Aled Thomas, Alice Bauer, Cristian Matti, Javier de Vicente

Thursday 27 August

AFTERNOON

13.30-14.15 • Plenary III [Jubilee Large Lecture Theatre] Keynote: Transformations towards sustainability transformations in global governance for sustainability Sponsored by Future Earth

Frank Biermann

14.15-15.45 • Parallel session G

G1

Plenary follow up - Transformations in global governance for sustainability [G22]

G2

Transitions and new business models [G35]

G3

The role of complementarities in transitions [143]

G4

Research session: Mobilizing the urban in sustainability transitions [G31]

G5

Struggles, political conflicts and power in transition processes [155]

G6

Spatial perspectives on transitions [135]

G7

Governance of sustainability transitions (I) [G36]

15.45–16.45 • [Multiple locations]

Shaping the future transitions research agenda (round 3)

16.45-18.15 • Parallel session H

Exploring transition pathways [G31]

Dialogue session: **Energy transition** research in Asia - useful for practitioners of development cooperation? [155]

H3

Research session: Low carbon transition in China: Prospects, politics and practices [G36]

Dialogue session: Sustainability transitions in Brighton [135]

H5

Policy for transitions and innovation [G22]

H6

Social Innovation for transitions [135]

H7

Governance of sustainability transitions (II) [143]

19.00 • Dinner and party [Dine Central, Bramber House]

Key

Modelling

Firm strategy Technical innovation system

Urban

Multi-level perspective

Governance and politics

Other

Location

Thursday 27 August • AFTERNOON Parallel sessions (detail)

14.15-15.45

Parallel session G

G1 Plenary follow up – Transformations in global governance for sustainability [G22]

Chair: Frans Berkhout Discussants: Melissa Leach, Ioan Fazey, Adriana Allen

G2 Transitions and new business models

[G35]

Chair: Barbara van Mierlo

Three is a crowd? Exploring the potential of crowdfunding for renewable energy in the Netherlands E. Vasileiadou, J. C. C. M. Huijben, R.P.J.M. Raven

Using strategic niche management theory for studying business model innovation Lina Joller

G3 The role of complementarities in transitions [143]

Chair: Efstathios Arapostathis

Complementarities in socio-technical transitions: framework and examples from the energy sector Jochen Markard, Volker Hoffmann

Complementarities and relatedness in established and emerging path inter-linkages

Jens Hanson, Markus Steen, Tyson Weaver, Håkon Normann, Gard H. Hansen

G4 Research session: Mobilizing the urban in sustainability transitions

[G31]

Convenors: Ralitsa Hiteva, Fiona Marshall Chair: Gordon MacKerron Discussants: Colin Nolden, Jonas Torrens

The nexus as an ecology of practices in urban transitions
Saurabh Arora, Ralitsa Hiteva,
Fiona Marshall

From protected space to systemic change: Investigating acceleration dynamics of urban sustainability transitions in the Belgian city of Genk Felix Spira, Erika Meynaerts, Leen Gorissen, Niki Frantzeskaki, Pieter Valkering

Accelerating urban environmental sustainability transitions – insights from Stockholm, Sweden Borgström, S., M. Schewenius, M. Svensdotter, M. Tuvendal

G5 Struggles, political conflicts and power in transition processes [155]

Chair: Jessica Jewell

Changing the moral landscape: examining the role of moral agency in sustainability transitions Nino Antadze, Katharine McGowan

Towards a conceptualization of power and micro-level politics in energy transitions Helene Ahlborg

Smart energy systems – next steps in renewable energy strategies forced to cross sector boundaries?

Ulrik Jørgensen

G6 Spatial perspectives on transitions

[135]

Chair: Philipp Späth

Industrial upgrading through unrelated diversification: the emergence of the Chinese solar PV industry

Christian Binz, Laura Diaz-Anadon

Geographical context of sustainability transitions: a case of Gandhinagar model solar city in India Thounaojam Somokanta

Transitioning to a mature cycling culture: conceptual reflections and an empirical illustration

Peter Palzer Marco to Brömmelstroet

Peter Pelzer, Marco te Brömmelstroet, Jacco Farla, Rob Raven

G7 Governance of sustainability transitions (I)

[G36]

Chair: Karoline Rogge

Adapting, transforming, orchestrating: Agency capacities for transilience governance in Rotterdam Katharina Hölscher, Niki Frantzeskaki, Derk Loorbach

Sustainability transitions: taking stock of governance and policy considerations across three analytical approaches

Björn Nykvist, Bruno Turnheim

New governance forms as a key factor for sustainable land management Benjamin Nölting, Carsten Mann

16.45 –18.15

Parallel session H

H1 Exploring transition pathways

[G31]

Chair: Frank Geels

Modelling long run transition pathways in mobility with the MATISSE-KK model: low carbon cars or alternative lifestyles? Jonathan Köhler, Florian Senger, Mike Hodson, Bruno Turnheim

How energy system modelling can learn from transitions research – insights into modelling practice Will McDowall

H2 Dialogue session: Energy transition research in Asia – useful for practitioners of development cooperation?

[155

Convenor: Verena Streitferdt Chair: Rob Raven Panellists: Verena Streitferdt, Jens Marquardt , Anna Wieczorek, Saurabh Arora, Ivan Nygaard, Kilian Topp, Dorit Lehr

H3 Research session: Low carbon transition in China: prospects, politics and practices

[G36]

Conveners: Adrian Ely, Sam Geall, Ping Li, David Tyfield, Frauke Urban, John Urry

Low carbon innovation in China: from overlooked opportunities and challenges to transitions in power relations and practices David Tyfield, Adrian Ely, Sam Geall

Genetic modification and agroecology: exploring political contestation around agricultural transitions in China Adrian Ely and Sam Geall

Pathways towards renewable energy in China: Solar transitions in the making

Frauke Urban and Sam Geall

Low carbon e-mobility transition in China: Stasis and dynamism Dennis Zuev, Ping Li, David Tyfield, John Urry

H4 Dialogue session: Sustainability transitions in Brighton

[135]

Chair: Gordon MacKerron Participants: a range of local stakeholders

H5 Policy for transitions and innovation

[G22]

Chair: Fred Steward

Rationale for policy interventions in sustainability transitions Timothy Foxon

Grand societal challenges and innovation in public services – identifying critical path creation processes from an innovation in sustainable transport *Rannveig Røste*

Picking winners' and socio-technical transitions: Theory and practice of targeted science, technology and innovation policies from an economics perspective

Mariana Mazzucato, Caetano C.R. Penna

H6 Social Innovation for transitions

[135]

Chair: Rob Byrne

Transitions towards 'new economies'? A transformative social innovation perspective

Flor Avelino, Julia Wittmayer, Bonno Pel, Carla Cipolla, Adina Dumitru, Alex Haxeltine, Sabine Hielscher, René Kemp, Iris Kunze, Paul Weaver

Do niches need a business model? Empowering social innovation for renewable energy through the introduction of notions of social entrepreneurship

Proka, A., Hisschemoller, M., Loorbach, D.
Business models as drivers of a low
carbon power system transition
Martin E. Wainstein, Adam G. Bumpus

H7 Governance of sustainability transitions (II)

[143]

Chair: John Grin

Governance of sustainability transitions in Swedish automobility: the cases of safety and climate Gustav Sjoblom

The financial crisis as a 'branching point' in the Greek energy regime: governing uncertainties, policies and practices

Stathis Arapostathis, Yiannis Fotopoulos, Peter J G Pearson. Tim Foxon.

Interactions of multi-level institution evolution for sustainability transitions – evidence from China's University Collaborative Innovation Program *Liang Mei, Jin Chen*

Friday 28 August

MORNING

$09.00-10.30 \cdot Parallel session I$

11

Strategic niche management experiments and trials

[G22]

12

Research session: The sharing economy as a sustainability transition?

[G36]

13

Research session: Thinking with history about transitions

14

Research session: Cultures of transitions: Using the EC framework to examine socio- technical

transitions [143]

15

Research session: Looking at transitions from different scientific approaches

[135]

16

Discursive perspectives on transition processes

17

The role of users and consumers in transitions

[G31]

10.30-11.00 • Break [Atrium]

11.00-12.30 • Parallel session J

Institutional perspectives on transition processes

[G22]

Research session: Users, niches & regimes: persistence, learning and empowerment

[G35]

13

Research session: **Political economy** of sustainable energy transitions

[135]

Research session: Sustainable transitions in developing countries

[G31]

J5

Research session: Discontinuity in sustainable transitions and socio-technical systems: exploring 'flip sides' to innovation and strategic niches

[G36]

J6

Niche empowerment and scaling up [115]

J7

Policy and transition experiments

[143]

12.30-13.30 • Lunch [Atrium]

Key

Modelling

Firm strategy

Technical innovation system Urban

Multi-level perspective

Governance and politics

Other

[] Location

09.00 - 10.30

Parallel session I

II Strategic niche management experiments and trials [G22]

Chair: Ulrik Jørgensen

Unpacking sustainabilities in socio-technical transitions. Solar photovoltaic and urban mobility experiments in India and Thailand Rob Raven, Bipashyee Ghosh, Anna J. Wieczorek, Andy Stirling

Strategic niche portfolios for the earlymarket stage: Plugged-in places and electric vehicle innovation in Milton Keynes

Alan Miguel Valdez

Cycling the city, re-imagining the city: Envisioning urban sustainability transitions in Thailand Frans Senaers

12 Research session: The sharing economy as a sustainability transition? [G36]

Chair: Peter Pelzer Panellist: Rernhard Truffer

Fair-share cities: transitioning to more sustainable eating? Anna R. Davies

Different niches in different places? Exploring the geographies of peer-topeer and traditional car-sharing Toon Meelen, Stephan Hobrink, Koen Frenken

Who shares what? Willingness to participate in multiple sharing economies

Toon Meelen, Lars Bocker, Pieter van de Glind, Koen Frenken, Mendel Giezen

13 Research session: Thinking with history about transitions [115]

Convenors: Valeria Arza, Mariano Fressoli, Anabel Marin, Patrick van Zwanenbera

A history of technology networks and the Lucas Plan Adrian Smith

Technology for autonomy and resistance. The appropriate technology movement in South America Mariano Fressoli, Elisa Around

Building sustainable pathways on the periphery: Latin American thought on structuralism, development and the environment in the 1970s Patrick van Zwanenberg, Anabel Marin, Valeria Arza

4 Research session: Cultures of transitions: Using the EC framework to examine sociotechnical transitions [143]

Convenor: Debbie Hopkins Commentator and chair: Alison Mohr

The mobility cultures of generation Y: a crack in the automobility regime? Debbie Hopkins

The rise of PV: opportunities and barriers for socio-technical transition Rehecca Ford, Janet Stephenson, Michelle Scott, John Williams, Ben Wooliscroft, David Rees, Geoff King

The Energy Cultures Framework as a tool for designing sustainable energy services in the Global South Anna Clements, Malcolm McCulloch, Alison Mohr

Research session: Looking at transitions from different scientific approaches

Discussant: Georg Holtz Convenor and chair: Andries Hof

Comparing future patterns of energy system change in 2°C scenarios with historically observed rates of change Mariësse van Sluisveld, Mathiis Harmsen, Nico Bauer, David McCollum. Keywan Riahi, Massimo Tavoni, Detlef van Vuuren, Charlie Wilson, Bob van der Zwaan

Green niche meets interconnected regimes: how smart meters interact with supply, network and demand regimes in the German electricity system

Karoline S. Rogge, Nele Friedrichsen, Barbara Schlomannbento

Evaluating sustainability transitions pathways: bridging analytical approaches to address governance challenges

Bruno Turnheim, Holger Berg, Frans Berkhout, Frank, Andries Hof, Andy McMeekin, Björn Nykvist, Detlef Van Vuuren

16 Discursive perspectives on transition processes [G35]

Chair: Jacco Farla

Competing discursive storylines during socio-technical transitions Cameron Roberts

The use of discourse analysis in transition studies: a systematic review Roel van Veen, Peter A. Tamas, Erik van Slobbe, Laurens Klerkx

Of old stories and new lock-ins mapping energy narratives in Tanzania Lukas Hermwille, Jonas van der Straeten

17 The role of users and consumers in transitions [G31]

Chair: Karoline Augenstein

Conceptualizing the active role of users in shaping transitions Johan Schot, Laur Kanger

Refining the product legitimation framework using an empirical case study: the legitimation of electric boating

Sarah Bork, Jan P.L. Schoormans, Sacha Silvester, Peter Joore

Transitions in retail systems: market devices, user practices and the emergence of new retail formats Athena Piterou

11.00-12.30

Parallel session [

J1 Institutional perspectives on transition processes [G22]

Chair: Timothy Foxon

Sustainability transitions as processes of institutional change – a theoretical elaboration

Lea Fuenfschilling, Bernhard Truffer

Transforming infrastructure: the role of investment behaviour. A study of increased investments in central electricity grids in Norway from 2009 Ragnhild Bjelland-Hanley, Olav Wicken, Allan Dahl Andersen

Cities as laboratories of socioecological transition: the transformative role of institutional diversification Thomas Sauer

J2 Research session: Users, niches and regimes: persistence, learning and empowerment [G35]

Convenor: Anton Sentic Chair and discussant: Fred Steward

Users' role in regime destabilisation: renewable energy and electricity grid transformation

S.R. Peters, A-M. Coles

Structure and agency in urban transport governance - the case of cycling in London F. Paschek, P. Ieromonachou

The development of combined heat and power (CHP) in the United Kingdom: a case history of niche failure and resilience A. Sentic

J3 Research session: Political economy of sustainable energy transitions [135]

Chair: Jessica Jewell Commentator: Mark Winskel

Three perspectives on energy transitions in Germany and Japan

The political economy of energy transitions: Demand management in Germany and the UK Caroline Kuzemko

Renewable energy transformation or fossil fuel backlash? Why some energy transitions are more successful than others Espen Moe

14 Research session: Sustainable transitions in developing countries [G31]

Convenor: Elmer Hansen Chair: Ivan Nygaard

Studying sustainability transitions in developing country contexts: a critical literature review through development studies lens Henny Romijn, Anna J. Wieczorek

Analysing bottlenecks and drivers for the setup of a biogas innovation system in Ethiopia, using an adapted TIS approach L. Kamp

Private sector investment in the biofuel value chain in in Ghana seen in an innovation system perspective I. Nygaard

Sustainability transitions in the making in Sub Saharan Africa: the role of platforms as 'hybrid forums' L. Klerkx, B. van Mierlo

J5 Research session: Discontinuity in sustainable transitions and socio-technical systems: exploring 'flip sides' to innovation and strategic niches

Convenor: Phil Johnstone Chair: Rob Byrne Discussant: Karoline Rogge

The discontinuation of sociotechnical regimes - transition by 'deconstruction' of actor-networks Sebastian Hoffmann, Johannes Weyer, Jessica Longen

Continuous discontinuation - the DDT ban revisted

Alix Levain, Pierre-Benoit Joly, Marc Barbier, Vincent Cardon, François Dedieu, Fanny Pellissier

Enacting discontinuity – what's useful and what's cumbersome Peter Steamaier

Exploring discontinuity through a comparison of German and UK nuclear power trajectories Phil Johnstone, Andy Stirling

J6 Niche empowerment and scaling up [115]

Chair: Rob Raven

Niche empowerment through knowledge exchange and translation in science-industry collaborations Annette Bos, Megan Farrelly

The scaling up of neighbourhood care in the transition to sustainable healthcare

Suzanne van den Bosch. Francoise Johansen, Anne van Strien

The politics of system innovation for emerging technologies: How does local agency dynamics affect the uptake of off-grid renewable electricity in rural Chile? Jose Opazo

J7 Policy and transition experiments [143]

Chair: Florian Kern

Opening the other black box: policy-making and policy coordination in the context of sustainability transitions in Austria Budde, B, Weber, M. Hartmann, C., Niederl, A., Polt, W.

Strategic experiments in climate governance-Lessons from a case-study review of transition and policy studies P. Kivimaa

Navigation and governance in Danish transition processes towards a low-carbon society Michael Jorgensen, Ulrik Jørgensen, Jens Stissing Jense

Friday 28 August

AFTERNOON

13.30-14.30 • Parallel session K

K1

Agent-based modelling as a tool for transition research

[135]

К2

The role of learning and evaluation in transitions

G2E1

К3

Technological innovation systems
[G22]

К4

Dialogue session: Sustainability transitions in the making: from analysis to action

[115]

K5

Policy support for sustainability transitions [G31] Dialogue session: The role of civil society in sustainability transitions

[143]

K6

K7

Big transitions G36]

14.30-16.00 • Parallel session L

11

Dialogue session: Policy studies meets transition studies: how do policy processes and transition dynamics co-evolve [143] L2

Transformations of the electricity grid

[135]

L3

Public participation, public engagement and transitions

G311

L4

Regime destabilisation, regime tensions and the discontinuation of sociotechnical regimes

[**G**36]

5

Research session: Sustainability transitions and wider transformative change, historical roots and future pathways

Practice theory and transitions research [G35] L7

Political economy perspectives on sustainability transitions

[115]

16.00-17.00 • Plenary IV [Jubilee Large Lecture Theatre] Reflections on conference and research agenda

Convenors: Jonas Torrens and Elsie Onsongo

17.00 • Farewell drinks and canapés [Jubilee Atrium]

Key Modelling Firm strategy Technical innovation system Urban Multi-level perspective Niche Governance and politics Other Location

13.30-14.30

Parallel session K

K1 Agent-based modelling as a tool for transition research

[135]

Chair: Floortje Alkemade

Active social acceptance, technology diffusion and policy strategies: an agent-based model of investment in distributed electricity production R.S. Seidl, M. Paier, D. Schartinger, K. Kubeczko

Transitions to low carbon ship propulsion technologies including wind, simulated with an agent-based model using evolutionary approaches Florian Senger, Jonathan Köhler

K2 The role of learning and evaluation in transitions

[G35]

Chair: Laur Kanger

Reflexivity and learning in the context of system innovation; prying loose entangled concepts Barbara Van Mierlo, PJ Beers

You cannot manage what you don't measure": an evaluation tool for transition processes Lize Van Dyck, Kris Bachus

K3 Technological innovation systems

[G22]

Chair: Jens Hanson

Catching up is not easy: a comparative analysis of biogas technology development in Germany and the UK Melf-Hinrich Ehlers, Jochen Markard

Direction, legitimacy and structuration in Technological Innovation Systems upscaling – insights from roadmaps for deepwater offshore wind energy Nuno Bento, Margarida Fontes

K4 Dialogue session: Sustainability transitions in the making: from analysis to action

[115

Convenors: Adrian Ely, David Tyfield, Micha Narberhaus, Anna Birney

K5 Policy support for sustainability transitions

[G31]

Chair: Hans Hellsmark

Sustainable Germany from 2030 to 2050: How do we want to live in the future? And how do we get there? Sylvia Veenhoff

Sustainability transition in urban-industrial China: a case study of China's solar thermal energy Zhen Yu

K6 Dialogue session: The role of civil society in sustainability transitions

[143]

Convenors: Niki Frantzeskaki, Adina Dumitru Panellists: Julia Wittmayer, Flor Avelino, Dr. Dominik Reusser, Alessandra Prampolini, Holger Berg, Laura Echternacht, Melanie Lukas, Felix Spira, Leen Gorissen

K7 Big transitions

[G36]

Chair: Johan Schot

The great transformation and the making of transition Claus Seibt

Beyond current transitions theory: facing the next great transition Fjalar J de Haan, Jan Rotmans

14.30-16.00

Parallel session L Dialogue session:

Policy studies meets transition studies: how do policy processes and transition dynamics co-evolve [143]

Convenors: Karin Ingold, Paula Kivimaa, Bernhard Truffer, Florian Kern Chairs: Bernhard Truffer, Florian Kern Panellists: Paula Kivimaa, John Grin, Karin Ingold, Paul Cairney

L2 Transformations of the electricity grid [135]

Chair: Gordon Mackerron

Transformation of transmission infrastructure: challenges and prospects for HVDC technology Allan Dahl Andersen, Jochen Markard

Lines of tension: transformations around a smart grid technology project demonstrating the insertion of wind energy into the electricity grid Le Renard

L3 Public participation, public engagement and transitions

Chair: Rob Byrne

Public participation and environmental education for sustainable transitions. Grassroots experiences on responsible consumption developed in Galicia (Spain)

Lema Blanco

Collective and participatory action for sustainability transitions: Exploring role of field configuring events, trade shows and hybrid forums

Suyash Jolly, Nissila Heli

Framing emerging technologies; persuasiveness and credibility of arguments aboutcarbon capture and storage

Kevin P.F. Broecks, Frank J. van Rijnsoever, Sander van Egmond, Marko P. Hekkert

L4 Regime destabilisation, regime tensions and the discontinuation of sociotechnical regimes [G36]

Chair: Bruno Turnheim

Destabilization of the fossil energy regime in the Port of Rotterdam – introducing a framework for diagnosing regime (in)stability Rick Bosman, PJ Beers, Derk Loorbach, Jan Rotmans

A new regime and then what? Cracks and tensions in the socio-technical regime of the Swedish heat energy system

Adis Dzebo, Björn Nykvist

Alternative Food Networks as vectors for the sustainable relocalization of food systems: a review of capacities, innovations and public policy in IDF Raphaël Stephens, Marc Barbier

L5 Research session: Sustainability transitions and wider transformative change, historical roots and future pathways [G22]

Convenor: Andy Stirling Discussant: Johan Schot

Pathways in and out of maize production in Kenya John Thompson

Pathways approaches to waste and food services in Peri-urban Delhi Fiona Marshall, Pritpal Randhawa, Pranav Desai, Ravi Agrawal

Energising communities: a critical perspective on grassroots innovation pathways

Adrian Smith

Seeds and sustainability in China: the role of regulation in transformative pathways

Adrian Ely

L6 Practice theory and transitions research [G35]

Chair: Noam Beraman

Move your money? Sustainability transitions in regimes and practices in the UK retail banking sector *Gill Seyfang, Amber Gilbert-Squires*

Transition design: The importance of everyday life and lifestyles as a leverage point for sustainability transitions

Gideon Kossoff, Cameron Tonkinwise, Terry Irwin

Linking TIS analysis with adoption and social practice research to address challenges of "sustainable energy for all" in East Africa

Susanne Wymann von Dach, Albrecht Ehrensperger, Emily N. Mutea, Ephraim Camenzind, Boniface P. Kiteme

L7 Political economy perspectives on sustainability transitions [115]

Chair: Caroline Kuzemko

The political economy of sustainability transition in developing countries: the case of energy transition in South Africa

Manisha Gulati, Saliem Fakir

Socio-technical transitions, structural change and development: transforming natural resource-based industries in Latin America? Anabel Marin, Patrick van Zwanenberg

Transition and crisis: seeing 'sociotechnical regimes' and 'regimes of accumulation' together.

Larry Reynolds

Poster session

Wednesday 26 August • 12.00–13.00 [Jubilee Atrium]

A cross-fertilization among transition town movement and the School of Engineering and Architecture of Bologna Cristiano Bottone

Resistance and resurgence: exemplary pathways in the Australian energy transitions landscape Kerry Carmody

Agency in socio-technical transition processes Diego Chavarria

Governments' role in transition: which institutional factors stimulate or hinder governments to play an innovative role in sustainable transition processes?

Organized (ir)responsibility and the development smart grids, a first exploration Marloes Dignum

European energy integration and transmission grids: a knowledge networks

Arne Fevolden

The politics of sustainable energy transitions Adrian Ford

Sector-level tests of the feasibility of green growth

Ardjan Gazheli

The entrepreneurial academic: the role and limitations of academia in developing China's nascent sector for advanced bio-energy technologies

Jorrit Gosens, Hans Hellsmark, Tomas Kåberger, Li Liu, Björn Sandén, Shurong Wang

Understanding the citizens-professional nexus in water management: tensions, dynamics and navigational strategies for the management of sustainable urban transitions

Volker Hoffmann

Success factors of backcasting processes applied on low-carbon transitions

John Holmberg

Transition to sustainable fertilization – a practices approach

Suvi Huttunen, Peter Oosterveer

Towards agroecological transition in the Rwenzori region of Uganda Ellinor Isgren

The effect of near-term policy choices on longterm greenhouse gas transformation pathways Steven Isley Blocking mechanisms in technological innovation systems – a case study on distributed photovoltaic technology in the Western Cape Province of South Africa

Michael Kriechbaum

Transitions towards sustainability – a practical typology for cities and regions Daniel J. Lang, Christopher Luederitz, Niko Schäpke, Arnim Wiek

Climate change and the ongoing fight-back of the Australian coal industry (1980–2014): an application and extension of the dialectic issue LifeCycle (DILC) model Marc Hudson

New policy practices for a challenge-led, broadbased model of transformative innovation. Transition cities and the reconfiguring of situated sociotechnical networks Christian Matti, Fred Steward

The process of sociotechnical transition to ecoinnovation from multilevel relationship: the case of the programs of Itaipu Brazil Cunha Mendonca

The impact of systemic hinders on the deployment of citizen-led projects in renewable electricity production – a comparison between France, Germany and Sweden *Ingrid Mignon, Andreas Rüdinger*

Energy efficiency in buildings in the city of Helsinki – a long run sustainability transition *Mikael Hilden*

Aframework for the governance of long-term techno-institutional lock-out in urban energy infrastructure transition

Dehdarian Mohammad Amin

Radical innovations by industry incumbents: the case of the Swedish pulp and paper industry Ksenia Onufrey

Sustainability transitions, consumption practices, and lifestyles: towards a framework and a backcasting methodology Jaco Quist

Why do they believe in it? An investigation into the determinants of policy mix credibility for the case of manufacturers of renewable power generation technologies in Germany Karoline Rogge, Elisabeth Dütschke

A policy niche for transition: the case of Korean innovation policy for social problem-solving *Jieun Seona*

Urban gardening drives sustainability transitions in Milan (Italy) *Girogia Silvastri*

Micro-dynamics and institutional change in regional transition paths to sustainability Simone Strambach

Multi-sectoral perspectives on sustainability transitions and regional sustainability pathways – examples from air quality management in the EU and Euregio Meuse-Rhine *Paul Szabo-Muller*

Overlaps in sustainability transition and policy change: a South African case of green economy policies

Mapula Tshangela, Mark Swilling

'Responsible' innovation of bioethanol in Brazil: from failing systems to phronetic reimagining David Tyfield

Participative modelling for an inter-subjective understanding of transition dynamics in regional energy systems (TREES)

Silvia Ulli-Beer

Helping transitions thinking enter organised city planning reform episodes Peter Walsh

Resilient niches for long-term sustainability transitions: creating a path for rainwater harvesting in the UK Sarah Ward, Peter Melville-Shreeve and David Butler

Fuzzy cognitive mapping to analyze the cognitive dimension of the stalled energetic building refurbishment transition in Germany Sebastian Weide

Social programme

Alongside the usual opportunities to network and socialise, we have planned some optional activities for your health and enjoyment.

Morning exercise activities

Each morning there is a planned exercise activity. Weather permitting these activities will take place outside. Each activity will meet in front of the main doors of the Jubilee building.

Tuesday 07.30 Hatha yoga

What is Hatha Yoga? It is a physical practice with the aim of purifying, cleansing and perfecting the physical body, leading to a sense of well-being in body and mind.

What can I expect? In this early morning session, focus will be on some stretching and some stronger postures, leading up to a short routine. A breathing technique will be taught at the beginning, to use during the practice, which will help you to maintain your energy and focus. It is hoped the practice will have helped you to feel relaxed but the relaxation at the end will be very short due to the nature of the day!

What do I need to bring? Wear loose clothing and enough layers (if practising outside); feet should be bare and avoid wearing loose or overly tight jewellery as this can get in the way of your practice. Other equipment will be provided.

Please note that this is a general class and may not be suitable in some cases of severe disability and is not designed with pregnancy in mind. If in doubt, please seek the advice of the yoga teacher prior to taking part (v.thomas@sussex.ac.uk).

Wednesday 07.30

University of Sussex campus boundary run

This light run will take you around the beautiful and delightful University of Sussex campus perimeter, across a diversity of terrains.

Distance = 3 km/1.8 miles

Time = 20-40 minutes run

Level = intermediate

What do I need to bring? Please wear appropriate running footwear as the ground conditions can be difficult at times.

The run will be led by Phil Johnstone

Friday 07.30 Chi-gung

This session consists of breathing exercises and stance work, which are used to relieve stress, improve concentration, strengthen and nourish internal organs and to teach you how to channel your body's own energy, its chi, into a movement or part of your body.

What do I need to bring? Wear loose clothing and enough layers (if practising outside); feet should be bare and avoid wearing jewellery as this can get in the way of your practice.

The session will be taught by Matt Gross, a 4th degree black belt and Nam Pai Chuan kung fu instructor with 20 years experience.

If you wish to attend any of these sessions, please do sign up at the registration desk, in Jubilee Building.

Places are limited and will be allocated on a first come first served basis

For the beach volleyball and BBQ evening you will need to pay when signing up to the activity.

Evening entertainment

Tuesday 19.30

Dinner

An informal dinner

Wednesday 19.30

Free evening to explore Brighton

Optional Beach volleyball and BBQ evening

If you've never played before, then even better – you'll love it. Head down to the beach enjoy a BBQ dinner and play beach volleyball on fine golden sand.

What do I need to bring? Wear loose clothing and enough layers to keep you warm when not playing, or in case the weather is inclement.

The fun starts at 19.30. Courts 5 and 6 are booked from 20.00–22.00, plus court 4 from 21.00–22.00.

This activity costs £10, to be paid in advance and includes court hire, a drink, and burger, sausage (or vegetarian equivalent) plus two salads. Only 50 places are available and they will be allocated on a first-come first-served basis.

Location: The Clubhouse, Yellowave Beach Sports Venue, 299 Madeira Drive, Brighton, BN2 1EN

Thursday 19.00

Conference dinner and party

Three course sit-down dinner, followed by traditional English barn dance and then a DJ set by SPRU's very own DJ Phil Harmonic.

Practical information

Venue

All sessions will take place in the Jubilee Building, at the University of Sussex.

Lunch will also be served in the Jubilee Building.

Dinner on Tuesday and Thursday evening will be served at Dine Central, within the Conference Centre, Bramber House.



Connectivity

The Conference's network available throughout the campus requires no authentication apart from a password.

The password for seven days from 08.00 on 25 August 2015 is a *ridiculously random* selection of three words.

Password

(all lowercase with normal spaces)

flap our aquarius

1. Go to the wifi settings on your device to connect to wifi in the normal way and choose **Conferences** from the list of available networks

2. When asked for the password, type in the password.



Twitter

Please join the conversation about the conference on Twitter:

#IST2015

For live tweets at plenary sessions and general updates, follow:

@SPRU

For further information please visit the IST conference website:

www.ist2015.org

Organising committee

Conference chair, Professor Johan Schot is grateful to Frans, Bernhard, Florian and Jonas for their input and support as members of the programme committee, and to advisors Paula and Jonathan for their help. Of course, the conference wouldn't go ahead without the dedicated work of the organizational team:

Nora Blascsok, Pip Bolton and Charlotte Humma.

The conference is sponsored by SPRU (Science Policy Research Unit) at the University of Sussex.

Founded in 1966 by Christopher Freeman, SPRU is internationally recognised as a leading centre of research on science, technology and innovation policy. As part of SPRU's 50th anniversary next year, we will be hosting a major conference, focused on transforming innovation, from 7–9 September 2016 at the University of Sussex.

Alongside the departments of Business and Management and Economics, SPRU is part of the School of Business, Management and Economics. The School provides leadership in the development and dissemination of sustainable business and management practice, informed by sound economic logic and a deep understanding of innovation and policy making.

Programme committee

Johan Schot - Chair

Frans Berkhout

Bernhard Truffer

Florian Kern

Jonas Torrens

Jonathan Kohler – Special advisor on quantitative modelling

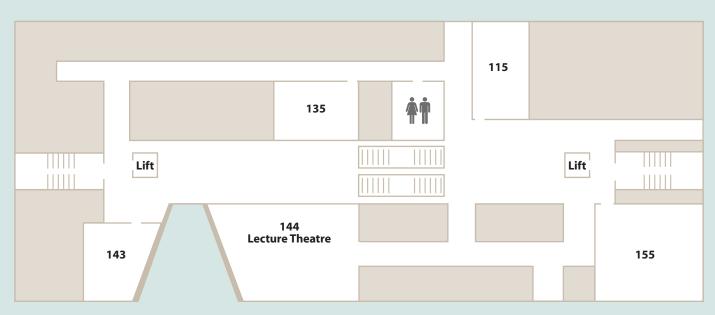
Paula Kivimaa – Programme advisor

The programme committee has been assisted by Jake Barnes, Nora Blascsok, Pip Bolton and Charlotte Humma.

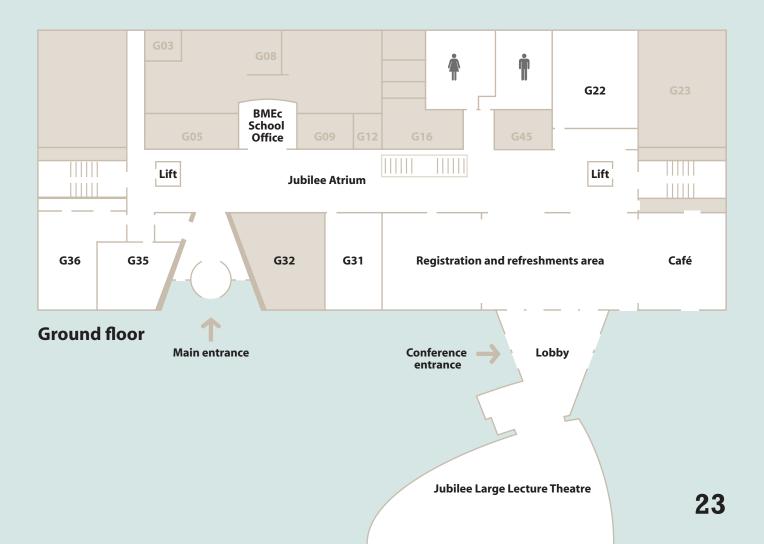


Floorplans

[Jubilee Building]



First floor



Location
SPRU
Jubilee Building
University of Sussex
Falmer
BN1 9SL
UK



For more information please see
IST 2015 conference website:
www.IST2015.org
STRN website:
www.transitionsnetwork.org