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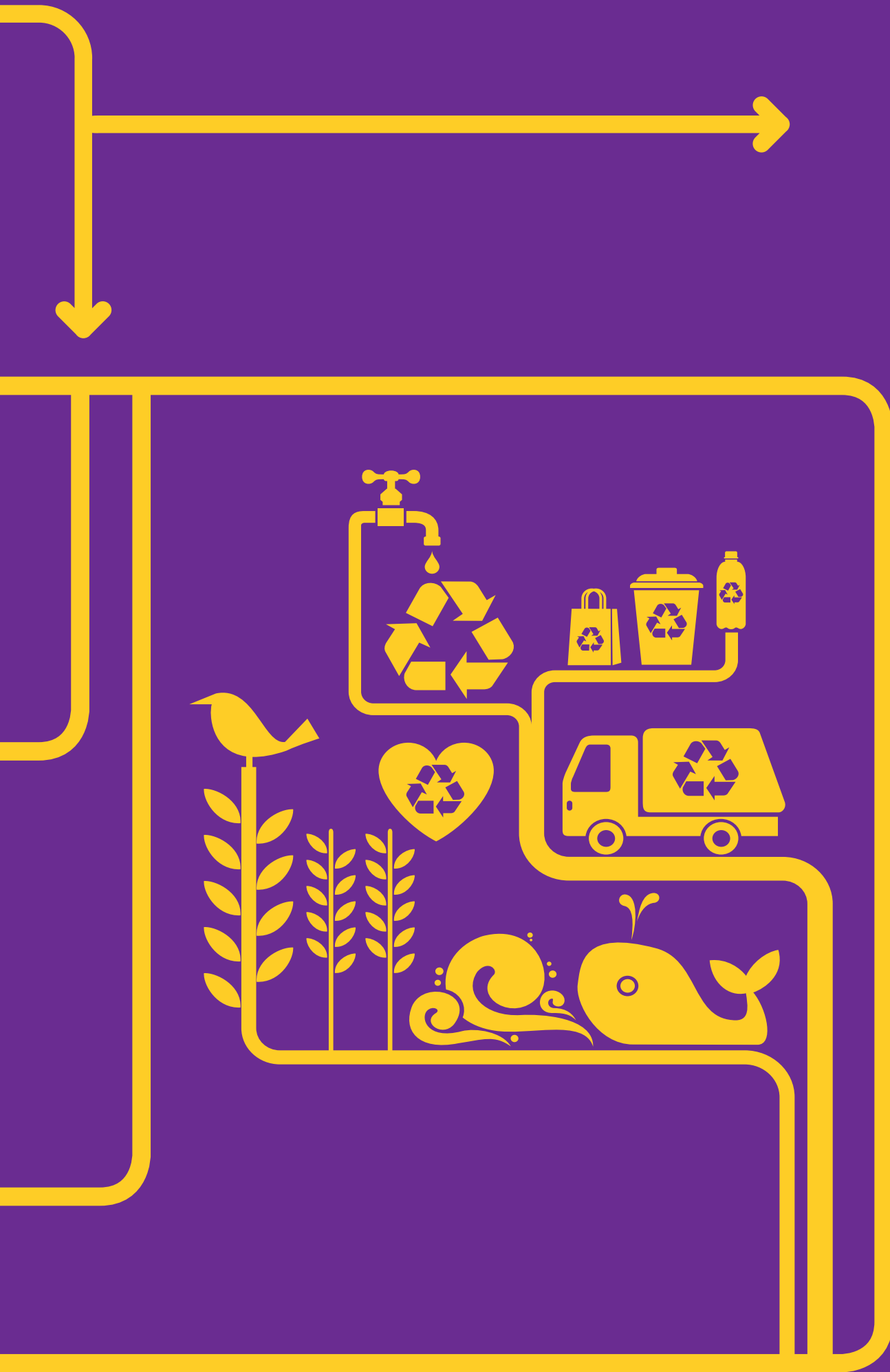
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WELCOME

We are delighted to welcome over 360 sustainable transitions scholars and stakeholders from around the world to Manchester for the 9th International Sustainability Transitions conference.

As well as providing a forum for debate on all aspects sustainability transitions research (as set out in the STRN research agenda), we also chose for this year's conference the specific topic:

RECONFIGURING CONSUMPTION AND PRODUCTION SYSTEMS

We chose the topic in the belief that it is a good time to reconnect to a founding assumption of sustainability transitions scholarship: the importance of studying systemic change across the entire chain from production to consumption. Over the last decade, academic research has arguably focused more on the emergence of radical innovations than on changes in 'whole systems'.

IST2018 therefore aims to re-engage with this initial agenda. This is timely, because some real-world transitions are moving beyond the diffusion of single innovations towards whole system change. In both electricity and mobility, for instance, the simultaneous unfolding of multiple technical, social and organisational innovations, across areas of production, provision, distribution, and use (e.g. renewable energy technologies, capacity markets, smart meters, decentralized community energy, 'prosumption', grid adjustments, electric cars, car sharing, cycling revolution) are interacting to change entire systems.

These real-world developments pose challenges for prevalent understandings of transitions that focus on single disruptive innovations following S-curves. These observations suggest that transitions scholarship may be on the verge of a new phase, which will require new imageries of transition. The idea of whole system reconfiguration captures this ambition, directing attention to:



- The interdependencies between changes in technology, changes in business models and services, and changes in everyday life
- The multiplicity of processes involved in reconfiguring whole systems, which may involve simple substitution (one component replacing another), but can also involve other change processes such as add-on (new components combined with existing ones), innovation cascades where changes in one part of the system (e.g. more intermittent renewables) create knock-on effects in other parts (e.g. grid adjustments, back-up capacity, storage), possibly even leading to changes in the system architecture
- How system reconfiguration unfolds in different domains (in mobility, energy, housing, agro-food) and how this relates to differences in the structure of the systems (e.g. differential relevance of infrastructures, supply chains, cultural conventions, user practices, industry structures)
- The unfolding of system reconfiguration at different scalar levels (e.g. urban, national, international).

Making whole system change the unit of analysis may also imply rethinking of theoretical repertoires, the refining of methodologies to enable the 'zooming out' required to observe whole systems, as well as adjustments in how we consider the implications for sustainability governance to take account of the multiple interacting domains of daily life.

These issues have become significant aspects of the research programmes of IST18's hosts, the Sustainable Consumption Institute and Manchester Institute of Innovation Research. Details can be found at:

Sustainable Consumption Institute
<https://www.sci.manchester.ac.uk/>

Manchester Institute of Innovation Research
<http://www.research.mbs.ac.uk/innovation>

As the organising committee, we wish you a great conference

Andy McMeekin (chair)

Frank Geels, Mike Hodson, Jo Mylan and Katrina Farrugia

PROGRAMME OVERVIEW

MONDAY 11TH JUNE

TIME	ACTIVITY
14.00-16.00	REGISTRATION
15.00-17.00	NEWCOMERS SESSION

TUESDAY 12TH JUNE

TIME	ACTIVITY
FROM 8.00	REGISTRATION
09.00 - 10.30	CONFERENCE OPEN AND PLENARY 1
10.30 - 11.00	BREAK
11.00 - 12.30	PARALLEL SESSION A: FULL PAPER SESSIONS
12.30 - 14.00	LUNCH + POSTER SESSION
14.00 - 15.30	PARALLEL SESSION B: FULL PAPER SESSIONS
15.30 - 16.00	BREAK
16.00 - 17.00	PARALLEL SESSION C: DIALOGUE + SPEED SESSIONS
17.15 - 18.30	PLENARY 2
18.30	BEST PAPER, STRN NEWS AND RECEPTION

WEDNESDAY 13TH JUNE

TIME	ACTIVITY
09.00 - 10.30	PARALLEL SESSION D: FULL PAPER SESSIONS
10.30 - 11.00	BREAK
11.00 - 12.00	PARALLEL SESSION E: DIALOGUE + SPEED SESSIONS
12.00 - 13.00	LUNCH
13.00 - 14.15	PLENARY 3
14.15 - 14.45	BREAK
14.45 - 16.15	PARALLEL SESSION F: FULL PAPER SESSIONS
16.30 - 17.30	PARALLEL SESSION G: DIALOGUE + SPEED SESSIONS
19.30	DINNER

THURSDAY 14TH JUNE

TIME	ACTIVITY
09.30 - 11.00	PARALLEL SESSION H: FULL PAPER SESSIONS
11.00 - 11.30	BREAK
11.30 - 13.00	PARALLEL SESSION I: FULL PAPER SESSIONS
13.00 - 14.00	LUNCH
14.00 - 15.00	PLENARY 4 AND CONFERENCE CLOSE



PLENARY 1 Stakeholder experiences with system reconfiguration

Several NGOs and policy-oriented agencies are engaging with system change and academic transition theories, trying to translate and make them operational in practice. This plenary will explore their experiences in making system reconfiguration happen. Guiding questions are:

- Why and how are you using academic transition ideas in your 'real world' practice?
- What works and what does not work? Where is further operationalisation needed?
- What are broader political/business opportunities or obstacles for making system reconfiguration happen?

SPEAKERS

- **Hans Bruyninckx**, Executive Director of the European Environment Agency
- **Joakim Appelquist**, Acting Deputy Director General, Vinnova – Swedish Governmental Agency for Innovation Systems
- **Jon Bloomfield**, Systems Innovation Manager at Climate-KIC

PLENARY 2 Reconfiguring Production and Consumption Systems

This plenary explores the conference theme from the perspective of two academic fields, the sociology of consumption and innovation studies. The speakers will present distinctive conceptual arguments about how to understand whole system reconfiguration, offering provocations and empirical illustrations to stimulate debate at IST2018

SPEAKERS

- **Steering in open ended configurations: the case of sustainable consumption.**
Gert Spaargaren, Professor of Environmental Policy for Sustainable Lifestyles and Consumption in the Environmental Policy Group at Wageningen University, NL
- **Analysing system reconfiguration – is prevailing innovation theory part of the problem or source of the solution?**
Fred Steward, Professor of Innovation and Sustainability, Policy Studies Institute, University of Westminster, UK

PLENARY 3 Exploring system reconfiguration in societal domains

This plenary explores the conference theme in two empirical domains: mobility and electricity. The speakers will investigate:

- If, and to what degree, existing systems are being reconfigured across technology and consumption practices, because of interactions between multiple change processes?
- What are the main causal mechanisms and what does this mean for our conceptual understandings?
- What are methodological and governance challenges for system reconfiguration?

SPEAKERS

- **Mobility: Stepping stones or stumbling blocks: understanding and influencing the scale, pace and direction of change in socio-technical systems:**
Peter Wells, Professor of Business and Sustainability, Cardiff Business School, Cardiff University, UK
- **Electricity: A Tale of Two Utilities: Transitions in the Electricity Sector:**
Elizabeth Wilson, Professor of Environmental Studies and Director of the Arthur L. Irving Institute for Energy and Society, Dartmouth College, USA

PLENARY 4 Conference Reflections

Panel discussion of key insights from IST2018, concluding reflections on the conference theme and introduction to IST2019

PLENARY SPEAKER BIOGRAPHIES



HANS BRUYNINCKX

Executive Director of the European Environment Agency.

In 1996 Dr Bruyninckx completed a PhD in international environmental politics at Colorado State University.

From 2010 to 2013, he was head of the policy oriented research institute, HIVA, in Leuven, Belgium. He was head of the Political Science department at Leuven University from 2007 to 2010.

Over the last 20 years, he has conducted research 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 (EU), publishing extensively on EU environmental policies and its role as an actor in global environmental governance.

Throughout his career Dr Bruyninckx has worked with and advised governmental agencies, civil society and businesses.



JOAKIM APPELQUIST

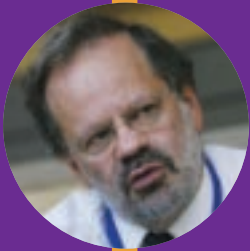
Deputy Director General, Head of International Division, VINNOVA.

Joakim Appelquist is a social scientist by training, he did his PhD in Economic History at Lund University in 2005. During his PhD studies Joakim Appelquist worked as a project assistant at IKED (International Organisation for Enterprise Development and Knowledge Economy), a Swedish-based think tank focused on entrepreneurship and innovation system development. At IKED he led a project that developed new ways to evaluate publicly funded RDTI projects.

In 2005 Dr. Appelquist joined VINNOVA, the Swedish Governmental Agency for Innovation Systems. Initially he worked as an expert developing evaluation and monitoring methods for RDTI projects. He was then appointed programme manager for the National Innovation Systems Research programme.

In 2010, Joakim Appelquist was appointed director for the International Division. The portfolio includes the National Contact Office for the EU framework program for Research and Innovation, Horizon 2020, and VINNOVA's bilateral R&D cooperation.

In 2016 Joakim Appelquist was appointed Deputy Director General responsible for Government Affairs. In this role he coordinates Vinnova's interactions with the Swedish Government Offices, including the Innovation Partnership Programs that the Swedish Government launched in 2016 to stimulate transformative change of the Swedish innovation system.



JON BLOOMFIELD

Senior Advisor, Climate KIC programme.

From 1996 – July 2005 he was the Head of Birmingham City Council’s European and International Division and from 2005-2011 he worked on a half-time basis at the West Midlands Regional Development Agency as their Head of European Policy. In this role, he co-ordinated and led six European regions working with five major academic institutions in the development of a major new initiative on climate change, called Climate KIC. Since then he has worked as a senior Advisor on the Climate KIC programme. Over the last eight years Climate KIC has become the leading trans-national climate change programme within the EU with a budget for 2018 of €81 million.

Since 2005 the other half of his working week has been spent as an Honorary Research Fellow at the Institute of Local Government Studies in the University of Birmingham. Here, he undertakes research and writes on a range of European topics with particular interests in governance, cities, sustainability and migration. He has advised dozens of mayors and senior city officials across Europe and is currently acting as policy advisor to the Eurocities Association.

A writer and strategist with more than four decades experience on European affairs, he covered the Velvet Revolution in Czechoslovakia for the Guardian in 1989, and co-authored “The Good Society and Progressive Politics”, a strategy for the centre-left beyond New Labour for the think tank, Compass. His new book, ‘Our City: Migrants and the Making of Modern Birmingham’ will be published by Unbound in March 2019.



GERT SPAARGAREN

Professor of Environmental Policy for Sustainable Lifestyles and Consumption, Environmental Policy Group at Wageningen University.

His main research interests are in environmental sociology, sustainable consumption, and globalization of environmental reform. He (co)edited two books (2012, 2016) which seek to combine Practice Theory with Transition theory.

PLENARY SPEAKER BIOGRAPHIES



FRED STEWARD

Visiting Professor at the Centre for Environmental Policy, Imperial College and Emeritus Professor at the Policy Studies Institute, University of Westminster.

He is a pioneer in the field of transformative innovation for environmental sustainability. As Director of the ESRC Sustainable Technologies Programme (2006-8), Senior Fellow at NESTA (2008-9) and Member of the Royal Society Global Environmental Change Research Committee (2006 - 2015) he promoted the development of interdisciplinary policy research in the UK on system innovation and sociotechnical transitions.

He studied at Manchester University (1966-72) and was in the first cohort of the MSc in Social Aspects of Science and Technology. His PhD, supervised by Harry Rothman, was a historical analysis of chemical innovation and risk in the food industry. He has played an international role in the fields of STS and innovation studies serving as President of the European Association for the Study of Science and Technology, EASST and on the Advisory Board European Sociological Association STS network.

He was a member of the international Scientific Committee of the KSI Knowledge Network on System Innovations and Transitions (2005 - 2010) and of Climate-KIC's Making Transitions Happen platform, Transitions Hub and Transition Cities network (2010-). He is currently on the Scientific Committee of the European Environment Agency and a participant in the Japan Ministry of Environment programme: Policy design and evaluation for sustainable consumption and production patterns in Asia.



DR. ELIZABETH J. WILSON

Director of the Arthur L. Irving Institute for Energy and Society and Professor in the Environmental Studies Department at Dartmouth College.

She studies how energy systems are changing in the face of new technologies and new societal pressures. Her work focuses on the implementation of energy and environmental policies and laws in practice. She is interested in how institutions support and thwart energy system transitions and focuses on the interplays between technology innovation, policy creation, and institutional decision making. Her recent books include *Energy Law and Policy* (West Academic Publishing) (with Davies, Klass, Tomain and Osofsky) and *Smart Grid (R)evolution: Electric Power Struggles* (Cambridge Press) (with Stephens and Peterson).

Wilson was a professor at the University of Minnesota and was awarded a 2015 Andrew Carnegie Fellowship and spent the 2016-7 academic year at the Danish Technical University. She was selected as a 2014-5 CIC Academic Leadership Fellow and was chosen as a Leopold Leadership Fellow in 2011. She spent the 2009-2010 academic year as a visiting professor at Tsinghua University, in Beijing, supported by McKnight Land-Grant Professorship. Prior to joining the University of Minnesota she worked with the U.S. Environmental Protection Agency and before that Wilson worked in Belgium, Burundi and Tanzania. She holds a doctorate in Engineering and Public Policy from Carnegie Mellon University.



PETER WELLS

Co-Director of the Centre for Automotive Industry Research at Cardiff Business School and Head of Logistics and Operations Management.

His research and publishing interests are focused on the global automotive industry, mobility studies including electric bicycles and car-sharing, and on sustainable business models. His research and consulting on the global automotive industry has involved companies throughout the value chain, national and international government bodies, and NGOs. His latest books are: 'The automotive industry in an era of eco-austerity' (Edward Elgar, 2010), 'Business models for sustainability' (Edward Elgar, 2013) and 'The global automotive industry' (edited with Paul Nieuwenhuis; Wiley, 2015).

MONDAY 11TH JUNE

MONDAY 11TH JUNE



14.00 - 18.00



REGISTRATION

15.00 - 16.30

NEWCOMERS AND EARLY CAREER SESSION

[ROOM 1.219]

The Newcomer Session will introduce PhD students, early-career researchers and other newcomers to the sustainability transitions community. The programme includes short inputs from the panellists on the state of research and most burning questions in different strands of transition studies, round-table discussions as well as a Q&A session.

Besides the overview on the field, the session will also provide a great opportunity to network with other newcomers and get acquainted with influential transitions researchers.

PANELLISTS:

Frank Geels, Flor Avelino, Lea Fünfschilling, Paula Kivimaa, Jonathan Köhler.

16:30 - 16:45 REFRESHMENTS

16.45 - 17.45

NEST NETWORK SESSION

[ROOM 1.219]

After a short break, we will continue with an informal NEST networking session. NEST members will present the work and current projects of the network.

Participants can get in touch with other junior scholars, put forward concerns and questions and can actively engage in different projects.

SESSION CHAIR:

NEST members




TUESDAY 12TH JUNE

TUESDAY MORNING 12TH JUNE



KEY

- | | |
|---|-------------------------|
|  FULL PAPERS | [] LOCATION |
|  SPEED TALKS | — 1 ST FLOOR |
|  DIALOGUE | ▬ 2 ND FLOOR |
|  OTHER | ▬ 3 RD FLOOR |
| | ▬ 4 TH FLOOR |

09.00 - 10.30



PLENARY 1

[THEATRE B]

STAKEHOLDER EXPERIENCES WITH SYSTEM RECONFIGURATION

HANS BRUYNINCKX, JOAKIM APPELQUIST, JON BLOOMFIELD

10.30 - 11.00 REFRESHMENTS

11.00 - 12.00

PARALLEL SESSION A

A1 - TRACK 1

Whole system reconfiguration across production and consumption
[2.218] =

A2 - TRACK 2

Theoretical contributions to transition frameworks
[2.220] =

A3 - TRACK 3

Politics and power in transitions
[1.218] =

A4 - TRACK 4

Governance and policy instruments for stimulating transitions
[1.219] =

A5 - TRACK 6

Organizations and industries in sustainability transitions
[3.204] =

A6 - TRACK 7

Transitions in practice and everyday life
[4.204] =

A7 - TRACK 8

Local and urban transitions
[4.205] =

A8 - TRACK 9

Transitions in low income and developing countries
[4.206] =

12.30 - 14.00 LUNCH & POSTER SESSION

POSTER SESSION

SEE POSTER PAGE 64 FOR FURTHER DETAILS

13.15 - 13.45

MEET THE EDITOR:

NATURE SUSTAINABILITY

[ROOM 2.218]

TUESDAY MORNING 12TH JUNE

11.00 - 12.30

SESSION A1 (FULL PAPERS) CHAIR: Katy Roelich

[ROOM 2.218]

TRACK 1

The Sociogenesis of Climate Change:
Food, Agriculture and Trajectories of Production and Consumption in China and Brazil

[Mark Harvey](#)

University of Essex, Colchester, United Kingdom. University of Manchester, Manchester, United Kingdom

The Transition to Automated Wood Heating Technology in the Northern Forest Region:
a Case Study of Whole Systems Reconfiguration

[Laura Edling](#)
[Cecilia Danks](#)

University of Vermont, Burlington, USA

The role of community energy in the decentralisation, democratisation and
decarbonisation of the energy system

[Helen Roby](#)
[Sally Dibb](#)

Coventry University, Coventry, United Kingdom

Transition Design

[Andrés Felipe
Valderrama Pineda](#)
[Jens Stissing Jensen](#)
[Ulrik Jørgensen](#)

Aalborg University, Copenhagen, Denmark

SESSION A2 (FULL PAPERS) CHAIR: Lea Fuenfschilling

[ROOM 2.220]

TRACK 2

Nature-Based Innovation Systems: A systemic literature review and dialogue between
nature-based solutions and technological innovation systems

[Rob Raven](#)
[Alexander van der Jagt](#)
[Hade Dorst](#)
[Hens Runhaar](#)

Utrecht University, Utrecht, Netherlands

The Lifecycle of technological innovation systems

[Jochen Markard](#)

ETH Zurich, Zurich, Switzerland

Transition to distributed sustainable innovation models

[Ellen H M Moors](#)
[Marlous Arentshorst](#)
[Wouter P C Boon](#)
[Jarno Hoekman](#)

Utrecht University, Copernicus Institute of Sustainable Development, Utrecht, Netherlands

SESSION A3 (FULL PAPERS) CHAIR: Paula Kivimaa

[ROOM 1.218]

TRACK 3

The Political Economy of an Interrupted Energy Transition:
Power relations, civil society, and hegemony in Spain

[Tobias Haas](#)

Freie Universität Berlin, Berlin, Germany

Conditions for politically accelerated transitions: Historical institutionalism, the multi-level perspective,
and two historical case studies in transport and agriculture

[Cameron Roberts¹](#)
[Frank Geels²](#)

¹University of Leeds, Leeds, United Kingdom. ²The University of Manchester, Manchester, United Kingdom

Policy change driven by niche advocacy coalitions - The German residential heat case

[Julius Wesche^{1,2}](#)
[Elisabeth Dütschke¹](#)
[Simona Negro²](#)
[Rob Raven²](#)
[Marko Hekkert²](#)

¹Fraunhofer ISI, Karlsruhe, Germany.

²Utrecht University, Utrecht, Netherlands



SESSION A4 (FULL PAPERS) CHAIR: Karoline Rogge

[ROOM 1.219]

TRACK 4

Policy options for reaching a climate neutral cement industry:
Lessons from Sweden

Hans Hellsmark¹
Lindsay Berg²

¹Chalmers Technical University, Göteborg, Sweden. ²Chalmers University of Technology, Göteborg, Sweden

Are we ratcheting up? Measuring the transformative impact of climate policies

Eva-Maria Mauer¹
Anna Leipprand²
Michael Pahle¹

¹Potsdam Institute for Climate Impact Research, Potsdam, Germany.

²Mercator Research Institute on Global Commons and Climate Change, Berlin, Germany

Multiple levels of transition governance and the break-through of the electric vehicle

Marianne Ryghaug
Tomas Skjølvold

Norwegian University of Science and Technology, Trondheim, Norway

How foresight on transition scenarios shapes policy: experiences with the preparations for the 9th European framework programme for research and innovation

Matthias Weber

AIT Austrian Institute of Technology, Vienna, Austria

SESSION A5 (FULL PAPERS) CHAIR: Susan Mühlemeier

[ROOM 3.204]

TRACK 6

Theorizing finance in transitions studies – a multi-level perspective analysis of state investment banks' roles in mobilising finance for clean energy transitions

Anna Geddes,
Tobias S. Schmidt

ETH Zurich, Zurich, Switzerland

The transition towards solar power; business as usual or a new role for incumbent grid operators?

Petter Johansson¹
Martin Vendel²
Cali Nuur²

¹Institute for Management of Innovation and Technology, Skellefteå, Sweden.

²Industrial Economics and Management, KTH Royal Institute of Technology, Stockholm, Sweden

The role of sustainability performance in incumbent firms' responses to scenarios of future change. A backcasting study

Josefa Kny

Europa-University of Flensburg, Flensburg, Germany

TUESDAY MORNING 12TH JUNE

11.00 - 12.30

SESSION A6 (FULL PAPERS) CHAIR: Dan Welch
[ROOM 4.204]

TRACK 7

Undoing the design of everyday sustainable living:
The production and ongoing inhabitation of eco-homes

Lucy Jones

University of Sheffield, Sheffield, United Kingdom

Building Blocks of a Typology of Social Innovation -
How do Social Innovations Interact with their Environment?

Schröder Antonius
Marthe Zirngiebl

TU Dortmund University, Dortmund, Germany

From Fast to Slow:
Transitions to Sustainable Fashion - A Theoretical Essay

Thalita Caliope
Jose Carlos Lazaro

Federal University of Ceara , PPAC, InoS, Fortaleza, Brazil

(Un-)sustainable transitions: The case of the sharing economy

Giuseppe Salvia¹
Laura Piscicelli²

¹Dept. Architecture and Urban Studies, Politecnico di Milano, Milano, Italy.

²Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands

SESSION A7 (FULL PAPERS) CHAIR: Derk Loorbach
[ROOM 4.205]

TRACK 8

The Transition to Smart Urbanism: A Global Discourse Network perspective

Frans Sengers

Utrecht University, Utrecht, Netherlands

Financialisation, scaling and the role of finance for 'just' urban sustainability transitions -
the possibilities and limits of renewable energy interventions in cities

Paris Hadfield
Lars Coenen

The University of Melbourne, Melbourne, Australia

Governing sustainability transitions: contrasting experimental
arenas through the lens of Agenda 2030

Gavin McCrory
Niko Schöpke
Johan Larsson
John Holmberg

Chalmers University of Technology, Gothenburg, Sweden



SESSION A8 (FULL PAPERS) CHAIR: Helene Ahlborg
[ROOM 4.206]

TRACK 9

Examining energy transitions in sub-Saharan Africa: A case study of donor-funded biogas projects in Ghana University of Western Australia, Perth, Australia	<u>Basil Amuzu-Sefordzi</u> Petra Tschakert Kirsten Martinus Raymond Wills
Unravelling directionality in socio-technical system transitions: a framework and application Wageningen University and Research, Wageningen, Netherlands	<u>Jean Vilas Boas</u> Laurens Klerkx Rico Lie Cees Leeuwis
Technological innovation system analysis of a value chain: Identifying synergies among urban on-site sanitation innovations	<u>Mara van Welie</u> ^{1,2} Bernhard Truffer ^{1,2}

¹Eawag (Swiss Federal Institute of Aquatic Science and Technology), Dübendorf, Switzerland. ²Utrecht University, Utrecht, Netherlands



TUESDAY 12TH JUNE

TUESDAY AFTERNOON 12TH JUNE



KEY

	FULL PAPERS	[]	LOCATION
	SPEED TALKS	—	1 ST FLOOR
	DIALOGUE	≡	2 ND FLOOR
	OTHER	≡≡	3 RD FLOOR
		≡≡≡	4 TH FLOOR

14.00 - 15.30



PARALLEL SESSION B

B1 - TRACK 1 Whole system reconfiguration across production and consumption [1.218] _	B2 - TRACK 2 Theoretical contributions to transition frameworks [2.218] =	B3 - TRACK 4 Governance and policy instruments for stimulating transitions [4.205] =	B4 - TRACK 4 Governance and policy instruments for stimulating transitions [4.204] =	B5 - TRACK 7 Transitions in practice and everyday life [1.219] _
B6 - TRACK 10 Methodological advances to study transitions, including modelling [2.220] =	B7 - TRACK 6 Organizations and industries in sustainability transitions [3.204] =	B8 - TRACK 8 Local and urban transitions [4.211] =	B9 - TRACK 9 Transitions in low income and developing countries [4.206] =	

15.30 - 16.00 REFRESHMENTS

16.00 - 17.00

PARALLEL SESSION C

C1 - TRACK 1 Whole system reconfiguration across production and consumption [2.220] =	C2 - TRACK 1 Whole system reconfiguration across production and consumption [2.218] =	C3 - TRACK 3 Politics and power in transitions [3.204] =	C4 - TRACK 4 Governance and policy instruments for stimulating transitions [4.204] =	C5 - TRACK 11 New frontiers - new directions [4.205] =
C6 - TRACK 9 Transitions in low income and developing countries [4.214] =	C7 - TRACK 12 Other [4.211] =	C8 - TRACK 1 Whole system reconfiguration across production and consumption [4.212] =	C9 - TRACK 2 Theoretical contributions to transition frameworks [4.213] =	C10 - TRACK 3 Politics and power in transitions countries [4.206] =
			C11 - TRACK 4 Governance and policy instruments for stimulating transitions [1.219] _	C12 - TRACK 4 Governance and policy instruments for stimulating transitions [1.218] _

17.15 - 18.30

PLENARY 2

[THEATRE B] _

RECONFIGURING PRODUCTION AND CONSUMPTION SYSTEMS
GERT SPAARGAREN, FRED STEWARD

18.30

BEST PAPER, STRN NEWS AND RECEPTION

TUESDAY AFTERNOON 12TH JUNE

14.00 - 15.30

SESSION B1 (FULL PAPERS) CHAIR: Mark Harvey
[ROOM 1.218]

TRACK 1

Broadening the space for low carbon transition:
addressing consumption and production in low carbon futures

[Katy Roelich](#)

University of Leeds, Leeds, United Kingdom

Reconfiguring which systems? An interdisciplinary reflection on units
of analysis in the Circular Economy transition

[Bonno Pei](#)
[Wouter MJ Achten](#)
[Ahmed Z Khan](#)
[Tom Bauler](#)

Université Libre de Bruxelles, Brussels, Belgium

Towards a Material-based Indicator of Bioeconomic Transition

[Raphael Asada](#)
[Tobias Stern](#)

University of Graz, Institute of System Sciences, Innovation and Sustainability Research, Graz, Austria

'Sharing Cities' – A new hype or true potential for sustainability
transitions in urban and economic systems?

[Karoline Augenstein](#)
[Boris Bachmann](#)

Center for Transformation Research and Sustainability (TransZent), Wuppertal, Germany

SESSION B2 (FULL PAPERS) CHAIR: Florian Kern
[ROOM 2.218]

TRACK 2

Theorizing energy transition as a social process

[Jannika Mattes](#)

Universität Oldenburg, Oldenburg, Germany

Transition 2.0 - New conceptual challenges for sustainability transition studies

[Jochen Markard](#)

ETH Zurich, Zurich, Switzerland

Emerging interfaces of transition studies and sustainability science –
A literature review and outline of a future research agenda

[Christian Binz¹](#)
[William C. Clark²](#)
[Alicia Harley²](#)

¹Eawag - Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland.

²Harvard Kennedy School of Government, Cambridge (MA), USA



SESSION B3 (FULL PAPERS) CHAIR: Jakob Edler
[ROOM 4.205]

TRACK 4

Approaching change: narratives on radical sustainability transitions in Swedish policy and planning

Pernilla Hagbert¹
Åsa Nyblom²
Karina Isaksson³

¹KTH Royal Institute of Technology, Stockholm, Sweden. ²IVL Swedish Environmental Research Institute, Stockholm, Sweden. ³VTI Swedish National Road and Transport Research Institute, Stockholm, Sweden

Conceptualising the system level activities of intermediaries – experiences from the support system for eco-innovators in Finland, Germany and Sweden

Wisdom Kanda¹
Mika Kuisma²
Paula Kivimaa^{3,4}
Olof Hjelm¹

¹Linköping University, Linköping, Sweden. ²Aalto University, Helsinki, Finland. ³University of Sussex, Brighton, United Kingdom. ⁴Finnish Environment Institute SYKE, Helsinki, Finland

The industrial dynamics of technology phase-out in socio-technical transitions: Insights from the upstream oil technology value chain

Allan Dahl Andersen
Magnus Gulbrandsen

TIK Centre for Innovation, Technology and Culture, University of Oslo (UiO), Oslo, Norway

SESSION B4 (FULL PAPERS) CHAIR: Klaus Kubeczko
[ROOM 4.204]

TRACK 4

A differentiated approach to mission-oriented innovation policy: Contextualizing societal challenges in a problem-solution space

Iris Wanzenböck¹
Koen Frenken¹
Marko Hekkert¹
Matthias Weber²

¹Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands. ²Center for Innovation Systems and Policy, AIT Austrian Institute of Technology, Vienna, Austria

'Replicating' smart grid experiments: a socio-technical analysis

Harald Rohrer¹
Gudrun Haindlmaier²
Klaus Kubeczko²
Dick Magnusson¹

¹Linköping University, Linköping, Sweden. ²Austrian Institute of Technology, Vienna, Austria

Political landscape meets individual motivations: exploring managerial decision-making in Germany's energy intensive industries

Karoline Rogge^{1,2}
Joachim Globisch²

¹SPRU, Brighton, United Kingdom. ²Fraunhofer ISI, Karlsruhe, Germany

SESSION B5 (FULL PAPERS) CHAIR: Jo Mylan
[ROOM 1.219]

TRACK 7

Grassroots sustainability initiatives and the translation of practices: A refined framework with illustrative cases on repairing

Wouter Spekkink¹
Jaco Quist²
Udo Pesch²

¹Sustainable Consumption Institute, University of Manchester, Manchester, United Kingdom. ²Delft University of Technology, Delft, Netherlands

The (In)Sustainable Lightness of Consumption: an Essay on Sustainable Consumption as an Ideal Type

Thalita Caliope¹
Aline Bezerra²
Jose Carlos Lazaro¹
Aurio Leocadio²

¹Federal University of Ceara, PPAC, InoS, Fortaleza, Brazil. ²Federal University of Ceara, PPAC, LESS, Fortaleza, Brazil

Energy district Sydhavn - co-creation of energy transitions with citizens in the context of city and national politics

Ulrik Jørgensen
Morten Elle

DIST / AAU Cph., Copenhagen, Denmark

Here comes the sun. The evolution of the 'Prosuming Project' amongst social housing tenants

Nicolette Fox

Science Policy Research Unit, Brighton, United Kingdom

TUESDAY AFTERNOON 12TH JUNE

SESSION B6 (FULL PAPERS) CHAIR: Jonathan Köhler [ROOM 2.220]

TRACK 10

A higher rebound effect under bounded rationality:
Interactions between car mobility and electricity generation

¹Warsaw University, Warsaw, Poland. ^{2,3}UAB, Barcelona, Spain.
⁴ICREA, Barcelona, Spain. ⁵VU University, Amsterdam, Amsterdam, Netherlands

Karolina
Safarzynska^{1,2}
Jeroen van den
Bergh^{3,4,5}

Multi-sectoral interactions in low-carbon transitions:
simulating the co-evolution of energy production and end-use sectors

¹Radboud University Nijmegen, Nijmegen, Netherlands. ²University of Cambridge, Cambridge, United Kingdom.
³University of Macao, Macao, China

Florian Knobloch¹
Aileen Lam^{2,3}
Jean-Francois
Mercure^{1,2}

Coping with deep uncertainties in sustainability transitions using exploratory modelling

¹Capability Systems Centre, School of Engineering and Information Technology, The University of New South Wales, Canberra, Australia. ²Melbourne School of Design and Melbourne Sustainable Society Institute, the University of Melbourne, Melbourne, Australia.
³Fraunhofer ISI, Karlsruhe, Germany

Enayat A. Moallem¹
Fjalar J. de Haan²
Jonathan Köhler³

SESSION B7 (FULL PAPERS) CHAIR: Anton Sentic [ROOM 3.204]

TRACK 6

Towards a sustainability transition in the maritime shipping sector:
the role of market segment characteristics

¹Department of Technology Management and Economics, Chalmers University of Technology, Gothenburg, Sweden. ²Department of Industrial Economics and Technology Management, Norwegian University of Science and Technology, Trondheim, Norway. ³Department of Human Geography, Lund University, Lund, Sweden.
⁴Centre for Technology, Innovation and Culture, University of Oslo, Oslo, Norway.
⁵Department of Economics and Technology Management, SINTEF Technology and Society, Trondheim, Norway

Anna Bergekl
Øyvind Bjørgum²
Teis Hansen³
Jens Hanson⁴
Markus Steen⁵

Nightingale Housing: The story of an unprotected niche

RMIT University, Melbourne, Australia

Trivess Moore
Andréanne Doyon

Examining the impact of transition initiatives on organizational change

¹Leuphana University Lüneburg, Lüneburg, Germany. ²Royal Institute of Technology (KTH), Stockholm, Sweden

Paula Maria Bögel¹
Kateryna Pereverza²
Paul Upham¹
Olga Kordas²





SESSION B8 (FULL PAPERS) CHAIR: Frans Sengers
[ROOM 4.211]

TRACK 8

Habitats and harbours for sustainability experimentation in Europe Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands	<u>Harm van den Helligenberg</u> Rob Raven Gaston Heimeriks Marko Hekkert
Warm and close – an urban design perspective on heat transition in the nebular city ETH Zurich, Zurich, Swit VUB - Cosmopolis, Brussels, Belgium zerland	<u>Griet Juwet</u> Michael Ryckewaert
The institutionalisation of sustainable practices in cities: how sustainability initiatives shape local selection environments ¹ ECl, University of Oxford, Oxford, United Kingdom. ² SPRU, University of Sussex, Brighton, United Kingdom	<u>Jake Barnes</u> ¹ <u>Rachael Durrant</u> ² <u>Florian Kern</u> ² <u>Gordon MacKerron</u> ²

SESSION B9 (SPEED TALKS) CHAIR: Minelle Silva
[ROOM 4.206]

TRACK 9

Policy mix studies as a powerful analytical framework to address issues at the interface of development, localisation and sustainability transitions in developing countries ¹ Graduate School of Technology Management, University of Pretoria, Pretoria, South Africa. ² University of Pretoria, Pretoria, South Africa	<u>David Walwyn</u> ¹ <u>Mulalo Magidimisa</u> ²
Illuminating Indian homes: The technological transition to LED lighting ¹ University of Oxford, Oxford, United Kingdom. ² Centre for Policy Research, New Delhi, India. ³ Harvard University, Cambridge, USA	<u>Radhika Khosla</u> ^{1,2} <u>Ajinkya Kamat</u> ³ <u>Venky Narayanamurti</u> ³
Theoretical contribution to transition framework for whole system reconfiguration based on the analysis of Brazilian agro-food production and consumption of meat The International Society for Ecological Economics (Sociedade Brasileira de Economia Ecológica), Brasilia, DF, Brazil. International Society of Sustainability Professionals, Hartford, CT, USA. Conselho Superior da Justiça do Trabalho, Brasilia, DF, Brazil. Associação Brasileira dos Profissionais pelo Desenvolvimento Sustentável, São Paulo, SP, Brazil. International Sociological Association, Madrid, Spain	<u>Armando Kokitsu</u>
The role of government in advancing sustainable urban mobility: a Brazilian experience University of Fortaleza, Fortaleza, Brazil	<u>Carlos Pereira</u> <u>Minelle Silva</u>
Using the Multi Level Perspective for Transitions to understand the Implementation Process of a Social Innovation for City Mobility in South Federal University of Ceara , PPAC, InoS, Fortaleza, Brazil	<u>Jose Carlos Lazaro</u> <u>Ana Sara Santos</u> <u>Thalita Caliope</u> <u>Aurio Leocadio</u>
Towards overcoming systemic problems in energy transitions: The case of distributed photovoltaics in South Africa ¹ University of Graz, Graz, Austria. ² Stellenbosch University, Stellenbosch, South Africa. ³ Victoria University of Wellington, Wellington, New Zealand	<u>Michael Kriechbaum</u> ¹ <u>Alfred Posch</u> ¹ <u>Alan Brent</u> ^{2,3}

TUESDAY AFTERNOON 12TH JUNE

16.00 - 17.00

SESSION C1 (DIALOGUE)

[ROOM 2.220]

TRACK 1

DISRUPTIVE INNOVATION AND LOW CARBON TRANSITIONS

Charlie Wilson¹
Mark Winskel²

¹Tyndall Centre for Climate Change Research, Norwich, United Kingdom. ²University of Edinburgh, Edinburgh, United Kingdom

SESSION C2 (DIALOGUE)

[ROOM 2.218]

TRACK 1

Disruption, Policy mixes and Transitions in mobility

Marc Dijk¹
Paula Kivimaa^{2,3}
Moshe Givoni⁴

¹Maastricht University, Maastricht, Netherlands. ²SPRU, University of Sussex, Brighton, United Kingdom. ³Finnish Environment Institute, Helsinki, United Kingdom. ⁴Transport Research Unit, Tel- Aviv University, Tel- Aviv, Israel

SESSION C3 (DIALOGUE)

[ROOM 3.204]

TRACK 3

Tools for incorporating power and politics into application-focused transition studies

Marie Claire Brisbois¹
Lena Partzsch²
Flor Avelino³
Pia Buschmann⁴

¹Utrecht University, Utrecht, Netherlands. ²University of Freiburg, Freiburg, Germany. ³DRIFT, Erasmus University, Rotterdam, Netherlands. ⁴Universität Münster, Münster, Germany

SESSION C4 (DIALOGUE)

[ROOM 4.204]

TRACK 4

'Social Innovation labs - a starting point for transitions?'

Jürgen Schultze¹
Marco Hasselkuß²
Dalia Mukhtar-Landgren³
Eva Wascher¹
Timo von Wirth⁴

¹TU Dortmund University, Dortmund, Germany. ²Wuppertal Institute, Wuppertal, Germany. ³Lund University, Lund, Sweden. ⁴DRIFT, Erasmus University Rotterdam, Rotterdam, Netherlands

SESSION C5 (DIALOGUE)

[ROOM 4.205]

TRACK 11

Sustainable Consumption and production across domains:
The 'nexus' as a locus of analysis

Iain Soutar

University of Exeter, Penryn, United Kingdom



SESSION C6 (DIALOGUE)

[ROOM 4.214]

TRACK 9

Developing the research network on sustainability transitions in the Global South

[Helene Ahlborg](#)¹
[Bipashyee Ghosh](#)²

¹Department of Political Science, Gothenburg University, Gothenburg, Sweden. ²Science Policy Research Unit (SPRU), University of Sussex, Brighton, United Kingdom

SESSION C7 (DIALOGUE)

[ROOM 4.211]

TRACK 12

Beyond the Nest: Career paths for transition professionals

[Anton Sentic](#)¹
[Susan Mühlemeier](#)²

¹Unit, University of Fribourg, Fribourg, Switzerland. ²EPFL, Lausanne, Switzerland

SESSION C8 (SPEED TALKS) CHAIR: Lillian Hansen

[ROOM 4.212]

TRACK 1

Nurturing niche innovation networks to accelerate a circular economy transition:
Evaluating the role of the triple helix-based system intermediary

[Jack Barrie](#)
[Girma Zawdie](#)
[Elsa Joao](#)

University of Strathclyde, Glasgow, United Kingdom

Positions on sustainable change -
A comparative analysis of the ambition level of bioeconomy strategies

[Lillian Hansen](#)

RURALIS - Institute for Rural and Regional Research, Trondheim, Norway

Towards an integrated analysis of electricity supply and consumption:
method development and initial results from the UK, Germany and Canada

[Miklós Antal](#)
[Kate Bayliss](#)
[Julia Steinberger](#)

University of Leeds, Leeds, United Kingdom

Territorial repair networks for sustainable production and consumption

[Romain Allais](#)^{1,2}
[Julie Gobert](#)^{3,4}
[Benjamin Tyl](#)¹

¹APESA, Tarnos, France. ²PACTE, Grenoble, France. ³ENPC, Paris, France. ⁴Insa, Strasbourg, France

Systemic, Community-Based Approaches To Water and Energy Management
in Remote Indigenous Communities: Barriers and Enablers to Local
Sustainability Transitions

[Melissa Jackson](#)¹
[Cara Beal](#)¹
[Rodney Stewart](#)¹
[Kelly Fielding](#)²

¹Griffith University, Gold Coast, Australia. ²University of Queensland, Brisbane, Australia



TUESDAY AFTERNOON 12TH JUNE

16.00 - 17.00

SESSION **C9** (SPEED TALKS) CHAIR: George Papachristos [ROOM 4.213]

TRACK 2

'Paradigm Shift and Transition Theory:
Opportunities for Transformational Change into Intrinsic Sustainable Development.'

Sheffield University Management School, Sheffield, United Kingdom

Saioa San Miguel
Bell
Frank Birkin

Transport policy change -
An actor-centered analysis of Berlin's Verkehrswende project

¹Institute for Advanced Sustainability Studies (IASS), Potsdam, Germany. ²Leuphana University, Lüneburg, Germany

Sophia Becker¹
Paula Bögel²
Paul Upham²

Analyzing the ability of living lab approaches to generate new insights for transition frameworks
within urban mobility systems

¹University of Applied Sciences Upper Austria, Steyr, Austria.

²Wuppertal Institute for Climate, Environment and Energy, Wuppertal, Germany

Christian Haider¹
Carolin Baedeker²
Marco Hasselkuß²
Ursula Kopp¹

Transformative knowledge for a sustainable bioeconomy

University of Hohenheim, Stuttgart, Germany

Sophie Urmetzer

Agency-structure interaction in sustainability transitions -
Shifting power relations in a urban-regional system of production and consumption of food

¹University of Oldenburg, Oldenburg, Germany. ²University of Vienna, Vienna, Austria

Camilla Chlebna
Alexandra
Frangenheim

On the problem of an 'assumed stability syndrome' for transitions studies on the problem of an
'assumed stability syndrome' for transitions studies

University of Manchester, Manchester, United Kingdom

Julia Kasmire

SESSION **C10** (SPEED TALKS) CHAIR: Cristian Matti [ROOM 4.206]

TRACK 3

Strategic reserves as regime resistance to the Swiss energy transition:
a hybrid agent-based system dynamics approach

École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Paul Adrianus
van Baal
Matthias Finger

The overflowing nature of Intangible Public Matters of Concerns in Danish Wind Farm Development:
Community concerns over technology transition towards wind power

¹Technical University of Denmark, Lyngby, Denmark. ²Stanford University, Stanford, USA.

³Technical University of Denmark, Roskilde, Denmark

Kristian Borch¹
Julia Kirch
Kirkegaard^{2,3}

Energy transition and buildings - How future designs of building energy codes
may pave the way for the decarbonisation of the building sector

ETH Zurich, Zurich, Switzerland

Marius Schwarz
Christof Knoeri

How did the concept of Nutrient Recycling make its way from unfamiliarity to top initiative in Finland?
Politics perspective to transition process

University of Tampere, Tampere, Finland

Erkki-Jussi Nylén

Understanding the sustainable innovation journey of the Dutch Energy and Resource Factory

¹Ghent University, Ghent, Belgium. ²TU Delft, Delft, Netherlands

Kasper Ampe^{1,2}
Erik Paredis¹
Lotte Asveld²
Patrici Osseweijer²
Thomas Block¹



SESSION C11 (SPEED TALKS) CHAIR: Renee van Diemen [ROOM 1.219]

TRACK 4

Deliberate destabilisation of the fossil fuel industry:
the case of the fossil free divestment movement in the Netherlands

[Rick Bosman](#)

Dutch Research Institute for Transitions, Rotterdam, Netherlands

Linking the Sustainability Transitions theory with Territorial Innovation Models
for regional development of European Less Developed Regions

[Alexandra Polido](#)
[Sara Moreno Pires](#)
[Carlos Rodrigues](#)
[Filipe Teles](#)

GOVCOPP, Governance, Competitiveness and Public Policies, Department of Social,
Political and Territorial Sciences, University of Aveiro, Aveiro, Portugal

Mind the governance gap:
Exploring Taiwan's energy transition policy package thorough socio-technical transition perspective

[Chia-Wei Chao](#)¹
[Kuei Tien Chou](#)^{2,3}

¹Risk Society and Policy Research Center, Social Science College, National Taiwan University, Taipei City, Taiwan.

²Risk Society and Policy Research Center, Social Science College, National Taiwan University, Taipei, Taiwan.

³Graduate Institute of National Development, National Taiwan University, Taipei, Taiwan

Case-specific design of deliberate transformation processes towards sustainable food systems

[Johannes Halbe](#)¹
[Claudia Pahl-Wostl](#)¹
[Uwe Schneidewind](#)²

¹Institute of Environmental Systems Research, Osnabrueck, Germany.

²Wuppertal Institute for Climate, Environment and Energy, Wuppertal, Germany

Targeting sustainable mass consumption through innovative governance arrangements

[Sibylle Bui](#)
[Ionara Costa](#)

Université Catholique de Louvain, Louvain-la-Neuve, Belgium

The effectiveness of energy innovation: Empirical findings from three energy systems

[Renee van Diemen](#)
[Evangelos Gazis](#)
[Aidan Rhodes](#)
[Jim Skea](#)

Imperial College London, London, United Kingdom

SESSION C12 (SPEED TALKS) CHAIR: Björn Nykvist [ROOM 1.218]

TRACK 4

The role of policy-mix in the transition toward a circular forest bio-based economy

[Enrica Imbert](#)¹
[Luana Ladu](#)²
[Piergiuseppe](#)
[Morone](#)¹
[Rainer Quitzow](#)^{3,2}

¹Bioeconomy in Transition Research Group (BiT-RG), Unitelma Sapienza–University of Rome, Rome, Italy.

²Technische Universität Berlin, Berlin, Germany.

³Institute for Advanced Sustainability Studies Potsdam, Potsdam, Germany

Can institutional steering promote sustainability transition?
Examining the dominant nutrition regime in Finland

[Pekka Jokinen](#)¹
[Minna Santaoja](#)²
[Markus Vinnari](#)¹
[Pasi Pohjolainen](#)¹

¹University of Tampere, School of Management, Tampere, Finland.

²University of Turku, Finland Futures Research Centre, Tampere, Finland

Case study of cross-boundary organizations to facilitate interactions
among multiple niches-innovations and multi-regimes

[Satoru Mizuguchi](#)

Japan National Press Club, Tokyo, Japan

Towards a Sustainable Development License to Operate in the extractive sector of the developing
countries: The case-study of gold mining in Ghana

[Farnaz Eslamishoar](#)
[Bruno Oberle](#)
[Jessica Celement](#)

EPFL (École Polytechnique Fédérale de Lausanne), Lausanne, Switzerland

Assessing the quality infrastructure for a circular bio-based economy in Europe

[Luana Ladu](#)¹
[Knut Blind](#)¹
[Rainer Quitzow](#)^{2,1}

¹Technische Universität Berlin, Berlin, Germany.

²Institute for Advanced Sustainability Studies, Potsdam, Germany

Innovating Climate Governance: Moving Beyond Experiments

[Bruno Turnheim](#)^{1,2,3,4}
[Paula Kivimaa](#)^{4,5}
[Frans Berkhout](#)⁶

¹King's College London, London, United Kingdom. ²University of Manchester, Manchester, United Kingdom.

³LISIS, Paris, France. ⁴University of Sussex, Brighton, United Kingdom.

⁵Finnish Environment Institute, Helsinki, United Kingdom. ⁶Kings College London, London, United Kingdom

WEDNESDAY 13TH JUNE

WEDNESDAY MORNING 13TH JUNE



KEY

- | | |
|---|---|
|  FULL PAPERS |  1 ST FLOOR |
|  SPEED TALKS |  2 ND FLOOR |
|  DIALOGUE |  3 RD FLOOR |
|  LOCATION |  4 TH FLOOR |

09.00 - 10.30



PARALLEL SESSION D

<p>D1 - TRACK 2</p> <p>Theoretical contributions to transition frameworks [2.218] =</p>	<p>D2 - TRACK 4</p> <p>Governance and policy instruments for stimulating transitions [2.220] =</p>	<p>D3 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [3.204] =</p>	<p>D4 - TRACK 8</p> <p>Local and urban transitions [4.204] =</p>	<p>D5 - TRACK 10</p> <p>Methodological advances to study transitions, including modelling [4.205] =</p>
<p>D6 - TRACK 3</p> <p>Politics and power in transitions [1.218] _</p>	<p>D7 - TRACK 5</p> <p>Civil society, culture and social movements [1.219] _</p>			

10.30 - 11.00 REFRESHMENTS

11.00 - 12.00

PARALLEL SESSION E

<p>E1 - TRACK 1</p> <p>Whole system reconfiguration across production and consumption [2.218] =</p>	<p>E2 - TRACK 2</p> <p>Theoretical contributions to transition frameworks [2.220] =</p>	<p>E3 - TRACK 4</p> <p>Governance and policy instruments for stimulating transitions [3.204] =</p>	<p>E4 - TRACK 5</p> <p>Civil society, culture and social movements [4.204] =</p>	<p>E5 - TRACK 9</p> <p>Transitions in low income and developing countries [4.205] =</p>
<p>E6 - TRACK 10</p> <p>Methodological advances to study transitions, including modelling [4.206] =</p>	<p>E7 - TRACK 11</p> <p>New frontiers - new directions [1.219] _</p>	<p>E8 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.211] =</p>	<p>E9 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.212] =</p>	<p>E10 - TRACK 7</p> <p>Transitions in practice and everyday life [4.213] =</p>
<p>12.00 - 13.00 LUNCH</p>			<p>E11 - TRACK 8</p> <p>Local and urban transitions [1.218] _</p>	<p>E12 - TRACK 8</p> <p>Local and urban transitions [4.214] =</p>

13.00 - 14.15

PLENARY 3

[THEATRE B]

EXPLORING SYSTEM RECONFIGURATION IN SOCIETAL DOMAINS

PETER WELLS, ELIZABETH WILSON

WEDNESDAY MORNING 13TH JUNE

09.00 - 10.30

SESSION D1 (FULL PAPERS) CHAIR: Bruno Turnheim
[ROOM 2.218]

TRACK 2

Assemblages and diffusion in transitions: a case of electric vehicle users

Toon Meelen¹
Tim Schwanen²

¹Utrecht University, Utrecht, Netherlands. ²Oxford University, Oxford, United Kingdom

How do intermediaries advance sustainability transitions?
Conceptual insights on intermediary action in different transition phases

Paula Kivimaa^{1,2}
Sampsa Hyysalo³
Wouter Boon⁴
Laurens Klerkx⁵
Johan Schot¹
Mari Martiskainen¹

¹University of Sussex, Brighton, United Kingdom. ²Finnish Environment Institute, Helsinki, Finland.
³Aalto University, Helsinki, Finland. ⁴Utrecht University, Utrecht, Netherlands. ⁵Wageningen University,
Wageningen, Netherlands

The Practices of Collective Action:
Practice Theory, Sustainability Transitions and Social Change

Daniel Welch
Luke Yates

University of Manchester, Manchester, United Kingdom

Linking sustainability transitions to debates in evolutionary, institutional and ecological economics

Tim Foxon

SPRU, University of Sussex, Brighton, United Kingdom

SESSION D2 (FULL PAPERS) CHAIR: Harald Rohracher
[ROOM 2.220]

TRACK 4

The dismantling of renewable energy policies:
the case of Spain and Czech Republic

Konrad Gürtler¹
Rafael Postpischil²
Rainer Quitzow^{1,3}

¹Institute for Advanced Sustainability Studies, Potsdam, Germany. ²Freie Universität Berlin, Berlin, Germany.
³Technische Universität Berlin, Berlin, Germany

Transforming the financial sector: Incentive structures for sustainable financing

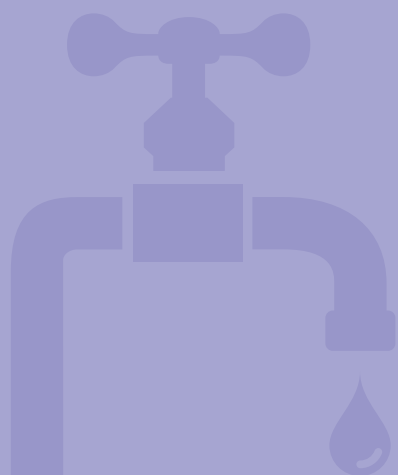
Björn Nykvist
Aaron Maltais

Stockholm Environment Institute, Stockholm, Sweden

Policy mixes for sustainability transitions:
taking stock and developing future research ideas and policy insights

Florian Kern¹
Karoline Rogge^{1,2}
Michael Howlett^{3,4}

¹SPRU, University of Sussex, Brighton, United Kingdom. ²Fraunhofer ISI, Karlsruhe, Germany.
³Simon Fraser University, Burnaby, Canada. ⁴National University of Singapore, Singapore, Singapore





SESSION D3 (FULL PAPERS) CHAIR: Phil Johnstone
[ROOM 3.204]

TRACK 5

Are Algae and Insect Producers Forming an Innovative Niche for the Contemporary Agri-Food Industry? The Case of Germany and the Netherlands

Arne Büniger

University of Greifswald, Greifswald, Germany

The story of a "Cinderella" technology: barriers to and lessons learned from the history and present state of CHP in the UK

Anton Sentic¹
Anne-Marie Coles²
Athena Piterou²

¹International institute of management in technology, University of Fribourg, Fribourg, Switzerland.

²University of Greenwich, London, United Kingdom

Innovation in the valorisation of by-products: A comparative analysis of the absorptive capacity of food processing firms

Nhat Strøm-Andersen

TIK Centre for Technology, Innovation and Culture, University of Oslo, Oslo, Norway

SESSION D4 (FULL PAPERS) CHAIR: Timo von Wirth
[ROOM 4.204]

TRACK 8

Local initiatives and global regimes - Multi-scalar transition dynamics in the chemical industry

Fredric Bauer
Lea Fuenfschilling

Lund University, Lund, Sweden

The Yo-Yo experiment: The case of CASBE implementing sustainability in the built environment

Andreanne Doyon
Trivess Moore
Susie Moloney
Joe Hurley

RMIT University, Melbourne, Australia

Nurturing nature for innovation: an urban geography of 'nature-based solutions'

Hade Dorst¹
Marloes Dignum²
Maarten Van Schie²
Rob Raven¹
Guillaume Rensink²

¹Utrecht University, Utrecht, Netherlands.

²PBL Netherlands Environmental Assessment Agency, The Hague, Netherlands

SESSION D5 (FULL PAPERS) CHAIR: Jeron van den Bergh
[ROOM 4.205]

TRACK 10

Activity based analysis of socio-technical systems transitions

Emmanuel Adamides

University Of Patras, Rion Patras, Greece

Modelling energy transition pathways

Simon Bolwig¹
Gatis Bažbauers²
Antje Klitkou³
Peter D. Lund⁴
Andra Blumberga²
Armands Grāvelsiņš²
Dagnija Blumberga²

¹Technical University of Denmark, Kongens Lyngby, Denmark.

²Riga Technical University, Riga, Latvia.

³Nordic Institute for Studies in Innovation, Research and Education, Oslo, Norway.

⁴Aalto University, Espoo, Finland

Social innovation as interconnected chains of action: Using a graph-theoretical approach to study social innovation processes

Wouter Spekkink
Frank Boons

Sustainable Consumption Institute, University of Manchester, Manchester, United Kingdom

WEDNESDAY MORNING 13TH JUNE

09.00 - 10.30

SESSION D6 (FULL PAPERS) CHAIR: Sherilyn MacGregor
[ROOM 1.218]

TRACK 3

Politics and technology:
capturing the state to accelerate socio-technical transitions for sustainability

Oluf Langhelle¹
James Meadowcroft²
Daniel Rosenbloom²

¹Stavanger University, Stavanger, Norway. ²Carleton University, Ottawa, Canada

Just Systemic Change:
Environmental Justice and System Transition

Stephen Williams¹
Andréanne Doyon²

¹University of British Columbia, Vancouver, Canada. ²RMIT University, Melbourne, Australia

A framework and approach for examining power in transitions-related formal policy settings

Marie Claire Brisbois

Utrecht University, Utrecht, Netherlands

SESSION D7 (FULL PAPERS) CHAIR: Flor Avelino
[ROOM 1.219]

TRACK 5

Diffusion of vegetarian and vegan diets as social innovations:
motive dynamics and impacts on environmental- and animal-conscious behavior

Ursula Ploll
Heidrun Petritz
Tobias Stern

University of Graz, Graz, Austria

Transformative Social Innovation and Shifting Power Relations from a Multi-Actor Perspective

Flor Avelino
Julia Wittmayer

DRIFT, Rotterdam, Netherlands

Assessing the transformative potential of renewable energy cooperatives:
lessons from a strategic dialogue in the Netherlands

Antonia Proka¹
Matthijs
Hisschemoller²
Derk Loorbach²

¹Dutch Research Institute for Transitions and Erasmus School of Social and Behavioural Sciences, Erasmus University Rotterdam, Rotterdam, Netherlands.

²Dutch Research Institute for Transitions, Erasmus University Rotterdam, Rotterdam, Netherlands

11.00 - 12.00



SESSION E1 (DIALOGUE)

[ROOM 2.218]

Sustainable Consumption and Production in an Urban Context:
introducing a new Future Earth Knowledge-Action Network

¹TU Delft, Delft, Netherlands. ²IDS University of Sussex, Brighton, United Kingdom.
³SCORAI and Tellus Institute, Boston, USA

TRACK 1

Jaco Quist¹
Patrick Schroeder²
Philip Vergragt³

SESSION E2 (DIALOGUE)

[ROOM 2.220]

Recent advances in technological innovation systems research -
Towards a new phase in transition studies

¹ETH Zurich, Zurich, Switzerland. ²University of Lisbon, Lisbon, Portugal. ³Eawag, Duebendorf, Switzerland.
⁴University of Applied Sciences Zurich, Winterthur, Switzerland. ⁵Utrecht University, Utrecht, Netherlands

TRACK 2

Jochen Markard¹
Nuno Bento²
Christian Binz³
Jörg Musiolik⁴
Bernhard Truffer^{3,5}
Marko Hekkert⁵

SESSION E3 (DIALOGUE):

[ROOM 3.204]

Regulatory Innovation Zones as New Transformative Innovation Policy Instruments

¹AIT Austrian Institute of Technology, Vienna, Austria. ²Linköping University, Linköping, Sweden.
³Öko-Institut e.V., Freiburg, Germany. ⁴Vienna University of Economics and Business (WU), Vienna, Austria

TRACK 4

Klaus Kubeczko¹
Harald Rohrer²
Dierk Bauknecht³
Verena Madner⁴

SESSION E4 (DIALOGUE)

[ROOM 4.204]

The role of cultural factors in place-specific sustainability transitions

¹University of Eastern Finland, Joensuu, Finland.
²KTH Royal Institute of Technology, Stockholm, Sweden. ³Ecologic Institute, Berlin, Germany.
⁴Research Center of the Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia

TRACK 5

Jakob Donner-Amnell¹
Simo Häyrynen¹
Pernilla Hagbert²
Grit Martinez³
Mimi Urbanc⁴
Sari Tuuva-Hongisto¹



WEDNESDAY MORNING 13TH JUNE

11.00 - 12.00

SESSION E5 (DIALOGUE)

[ROOM 4.205]

TRACK 9

Transitions in low income and developing countries: research challenges

[Anna J. Wieczorek](#)

Eindhoven University of Technology, Eindhoven, Netherlands

SESSION E6 (DIALOGUE)

[ROOM 4.206]

TRACK 10

Knowledge and evidence in transition experiments:
Addressing an open question in theory and practice

[Guido Caniglia](#)¹
[Christopher
Luederitz](#)²
[Timo von Wirth](#)³
[Kristina Hondrila](#)⁴
[Barry Ness](#)⁵

¹Leuphana University of Lüneburg, Lüneburg, Germany. ²University of Waterloo, Waterloo, Canada.

³Erasmus University of Rotterdam, Rotterdam, Netherlands. ⁴Universite du Luxembourg, Luxembourg, Luxembourg. ⁵Lund University, Lund, Sweden

SESSION E7 (DIALOGUE)

[ROOM 1.219]

TRACK 11

Towards a transformative agenda for the Science, Technology and Innovation community:
an inter-network dialogue

[Johan Schot](#)¹
[Jonas Torrens](#)²

¹SPRU - Science Pol, Brighton, United Kingdom. ²SPRU - Science Policy Research Unit, Brighton, United Kingdom

SESSION E8 (SPEED TALKS) CHAIR: Kersti Karltorp

[ROOM 4.211]

TRACK 6

Energy Transition of Multinational Energy Utilities: A Configurational Study

[Samuli Patala](#)¹
[Jouni K. Juntunen](#)¹
[Sarianna Lundan](#)²
[Tiina Ritvala](#)¹

¹Aalto University School of Business, Helsinki, Finland. ²University of Bremen, Bremen, Germany

Networked resource management as a component of upscaling demonstration projects

[William Throndsen](#)¹
[Patrick Sumpf](#)²
[Toke Haunstrup
Christensen](#)³
[Tomas Moe Skjølsvold](#)¹
[Marianne Ryghaug](#)¹

¹Norwegian University of Science and Technology, Trondheim, Norway.

²Karlsruhe Institute of Technology, Karlsruhe, Germany. ³Aalborg University, Aalborg, Denmark

Demonstration Projects and Social field dynamics in the Greening Maritime Cluster
in South-Western Norway

[Svein Gunnar
Sjoetun](#)

Western Norway University of Applied Science, Bergen, Norway. University of Bergen, Bergen, Norway

Operationalising system resource mobilization in Global Innovation Systems

[Jonas Heiberg](#)^{1,2}
[Bernhard Truffer](#)^{1,2}

¹Faculty of Geosciences at Utrecht University, Utrecht, Netherlands.

²Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland

Can incumbents contribute to system building in new industries?
Exploring actor variation in efforts to influence policy

[Håkon Endresen
Normann](#)
[Jens Hanson](#)

TIK Centre for Technology, Innovation and Culture, University of Oslo, Oslo, Norway



SESSION E9 (SPEED TALKS) CHAIR: **Petter Johansson**
[ROOM 4.212]

TRACK 6

Institutional context and its significance for sustainable energy transitions: how evolving energy retail markets compare in jurisdictions with differing market designs

[Laura Brinker](#)

University of Oxford, Oxford, United Kingdom

Deconstructing new regional industrial path development in resource-rich regions:
Case of bio-economy initiatives in Skåne and Värmland

[Suyash Jolly](#)

Department of Human Geography, Lund University, Lund, Sweden

The end of the world (as we know it):
When vegan organic agriculture replaces animal husbandry

[Steffen Hirth](#)

Sustainable Consumption Institute, Manchester, United Kingdom. The University of Manchester, Manchester, United Kingdom

The bioeconomy, biotechnology, and the transition to sustainability

[Nicolas Béfort](#)^{1,2}
[Martino Nieddu](#)³

¹Neoma Business School / chair in Industrial Bioeconomy, Reims, France. ²European Center in Biotechnology and Bioeconomy, Reims, France. ³University of Reims Champagne Ardenne - REGARDs, Reims, France

SESSION E10 (SPEED TALKS) CHAIR: **Harald Wieser**
[ROOM 4.213]

TRACK 7

A conceptual framework to study the dynamics of routine practice transitions

[Franziska Meinherz](#)
[Claudia Binder](#)

Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland

Design triggers for exploring Lost and Found in transitions of everyday practices

[Mia Hesselgren](#)
[Elina Eriksson](#)

KTH Royal Institute of Technology, Stockholm, Sweden

Reshaping housing regimes:
novel constellations of sharing between neighbours in France and Germany

[Andreas Huber](#)

European Institute for Energy Research, Karlsruhe, Germany. Leuphana University, Lüneburg, Germany

Increasing support for wind energy on land by incorporating values of local stakeholders:
From turbine design to planning process

[Esther van der Waal](#)¹
[Rixt Botma](#)²
[Henny van der Windt](#)¹

¹University of Groningen, Groningen, Netherlands. ²Municipality of Assen, Assen, Netherlands





11.00 - 12.00

SESSION E11 (SPEED TALKS) CHAIR: Anna Wieczorek
[ROOM 1.218]

TRACK 8

Can municipalities mediate between transition visions and the local context of cities?
The case of three Swedish municipalities

Ingrid Mignon¹
Sara Gustafsson²

¹Chalmers University of Technology, Gothenburg, Sweden. ²Linköping University, Linköping, Sweden

How geographical context matters:
considering spatial patterns for diffusion pathways in the Swiss energy and German transport sector

Timo von Wirth¹
Jens Schippl²

¹Dutch Research Institute for Transitions (DRIFT), Erasmus University Rotterdam, Rotterdam, Netherlands.

²Karlsruhe Institute of Technology (KIT), Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe, Germany

Civil Society in Local Infrastructure Transitions

Nina Litman-Roventa
Katy Roelich

University of Leeds, Leeds, United Kingdom

Participation Processes and Impact on Sustainable Adaptation Measures in Urban Areas

Theresa Anna Michel

University of Oldenburg, Oldenburg, Germany

Conceptual framework for complex urban energy systems: application and strategies

Sumedha Basu¹
Timon Wehnert²
Killian Topp³

¹University of Warwick, New Delhi, United Kingdom. ²Wuppertal Institute of Climate, Environment and Energy, Berlin, Germany. ³Wuppertal Institute of Climate, Environment and Energy, Wuppertal, Germany

SESSION E12 (SPEED TALKS) CHAIR: Karoline Augenstein
[ROOM 4.214]

TRACK 8

Towards the 'smart-wise inclusive city' transition: mapping the collective
urban intelligence in South and North

Joe Ravetz

University of Manchester, Manchester, United Kingdom

Smart Prosumers in Norway: Comparing three different cases

Marius Korsnes
Marianne Ryghaug
William Throndsen
Gitte Koksvik
Tomas Skjølsvold
Ingvild Fjellså

NTNU, Trondheim, Norway

System Transitions Through Participation in Infrastructure Planning? A use case in electric bike
infrastructure planning in the city of Karlsruhe

Monika Heyder¹
Pia Laborgne¹
Joanna Skok¹
Brendan McGill²
Ralf Trunko³
Andrea Buehler⁴

¹European Institute for Energy Research (EIFER), Karlsruhe, Germany. ²Albert Ludwig University of Freiburg, Freiburg, Germany. ³Cyber Forum e.V., Karlsruhe, Germany. ⁴City of Karlsruhe - Economic Development Department, Karlsruhe, Germany

Transition governance towards a sustainable heating system -
A case study in the Ruhrgebiet, Germany

Johannes Halbe¹
Uwe Schneidewind²
Claudia Pahl-Wostl¹

¹Institute of Environmental Systems Research, Osnabrueck, Germany.
²Wuppertal Institute for Climate, Environment and Energy, Wuppertal, Germany

Upscaling the Sharing Economy in Urban Contexts through Narrative Networks

Karoline Augenstein
Alexandra Palzkill

Center for Transformation Research and Sustainability (TransZent), Wuppertal, Germany



WEDNESDAY 13TH JUNE

WEDNESDAY AFTERNOON 13TH JUNE



KEY

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|---|---|
|  FULL PAPERS |  1 ST FLOOR |
|  SPEED TALKS |  2 ND FLOOR |
|  DIALOGUE |  3 RD FLOOR |
| [] LOCATION |  4 TH FLOOR |



14.45 - 16.15

PARALLEL SESSION F

<p>F1 - TRACK 2</p> <p>Theoretical contributions to transition frameworks [2.220] =</p>	<p>F2 - TRACK 3</p> <p>Politics and power in transitions [2.218] =</p>	<p>F3 - TRACK 4</p> <p>Governance and policy instruments for stimulating transitions [1.218] _</p>	<p>F4 - TRACK 5</p> <p>Civil society, culture and social movements [3.204] =</p>	
<p>F5 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.204] =</p>	<p>F6 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.205] =</p>	<p>F7 - TRACK 7</p> <p>Transitions in practice and everyday life [4.206] =</p>	<p>F8 - TRACK 10</p> <p>Methodological advances to study transitions, including modelling [4.211] =</p>	<p>F9 - TRACK 1</p> <p>Whole system reconfiguration across production and consumption [1.219] _</p>

16.30 - 17.30

PARALLEL SESSION G

<p>G1 - TRACK 1</p> <p>Whole system reconfiguration across production and consumption [2.220] =</p>	<p>G2 - TRACK 2</p> <p>Theoretical contributions to transition frameworks [2.218] =</p>	<p>G3 - TRACK 3</p> <p>Politics and power in transitions [1.218] _</p>	<p>G4 - TRACK 4</p> <p>Governance and policy instruments for stimulating transitions [3.204] =</p>
<p>G5 - TRACK 5</p> <p>Civil society, culture and social movements [4.204] =</p>	<p>G6 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.211] =</p>	<p>G7 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.212] =</p>	<p>G8 - TRACK 8</p> <p>Local and urban transitions [4.213] =</p>
<p>G9 - TRACK 11</p> <p>New frontiers - new directions [4.205] =</p>	<p>G10 - TRACK 6</p> <p>Organizations and industries in sustainability transitions [4.206] =</p>	<p>G11 - TRACK 10</p> <p>Methodological advances to study transitions, including modelling [1.219] _</p>	<p>G12 - TRACK 2</p> <p>Theoretical contributions to transition frameworks [4.214] =</p>

19.30 CONFERENCE DINNER

[BARCA BAR]

WEDNESDAY AFTERNOON 13TH JUNE

14.45 - 16.15

SESSION F1 (FULL PAPERS) CHAIR: Sibylle Bui
[ROOM 2.220]

TRACK 2

Navigating transition space:
the grid operator as proactive incumbent in the energy transition

Rick Bosman
Derk Loorbach
PJ Beers

Dutch Research Institute for Transitions, Rotterdam, Netherlands

Lost at sea or a new wave of innovation? Examining the effectiveness of the UK's
wave energy innovation system since 2000

Matthew Hannon¹
Renee van Diemen²
Jim Skea²

¹University of Strathclyde, Glasgow, United Kingdom. ²Imperial College, London, United Kingdom

Incumbent actors, guided search paths, and landmark projects in infra-system transitions:
Re-thinking Strategic Niche Management with a case study of French tramway diffusion (1971-2016)

Bruno Turnheim^{1,2,3,4}
Frank Geels¹

¹University of Manchester, Manchester, United Kingdom. ²King's College London, London, United Kingdom.

³LISIS, Paris, France.

⁴SPRU, Brighton, United Kingdom

SESSION F2 (FULL PAPERS) CHAIR: James Meadowcroft
[ROOM 2.218]

TRACK 3

Enacted inertia - Australian fossil fuel incumbent strategies to resist radical
policies and challenger technologies

Marc Hudson

Sustainable Consumption Institute, Manchester, United Kingdom

Policy mix feedbacks in sustainability transitions:
Insights from the denouncement of zero carbon homes in the UK

Duncan Edmondson
Florian Kern
Karoline Rogge

SPRU - University of Sussex, Brighton, United Kingdom

Crisis, policy change and bioenergy transitions in Brazil - Investigating landscape pressures

Luiz Gustavo
Silva de Oliveira

Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands. ICIS,
Maastricht University, Maastricht, Netherlands

The politics of low-carbon energy transitions -
tracking and explaining change in German energy advocacy coalitions

Nicolas Schmid
Tobias S. Schmidt
Sebastian Sewerin

ETH Zurich, Zurich, Switzerland



SESSION F3 (FULL PAPERS) CHAIR: Paul Upham [ROOM 1.218]

TRACK 4

Catching-up meets sustainability: contemplating latecomer strategic trade-offs when facing emerging windows of opportunity in clean technologies

Xiao-Shan Yap¹
Bernhard Truffer^{1,2}
Christian Binz²

¹Utrecht University, Utrecht, Netherlands. ²Eawag, Dübendorf, Switzerland

Jointly experimenting for sustainability transitions? Shaping real-world labs by comparing them

Niko Schöpke^{1,2}
Franziska Stelzer³
Guido Caniglia¹
Matthias Bergmann⁴
Matthias Wanner⁵
Mandy Singer-Brodowski⁶
Derk Loorbach⁷
Per Olsson⁸
Carolin Baedeker³
Daniel J. Lang¹

¹Faculty of Sustainability, Leuphana University of Lüneburg, Lüneburg, Germany.

²Chalmers University of Technology, Gothenburg, Sweden. ³Wuppertal Institute for Climate, Environment and Energy, Wuppertal, Germany. ⁴ISOE Institut for Socio-Ecological Research, Frankfurt, Germany.

⁵Center for Transformation Research and Sustainability (TransZent), University of Wuppertal, Wuppertal, Germany.

⁶Institut Futur, Free University of Berlin, Berlin, Germany.

⁷DRIFT-Dutch Research Institute for Transitions, Rotterdam, Netherlands.

⁸Stockholm Resilience Centre, Stockholm University, Stockholm, Sweden

Paving the pathways towards sustainable future? A critical review of STI policy roadmaps as policy instruments enabling sustainability transitions

Michał Miedzinski¹
Will McDowall¹
Jesse Fahnestock²

¹UCL ISR, London, United Kingdom.

²Sustainable Built Environment/Energy and Circular Economy, Research Institutes of Sweden (RISE), Stockholm, Sweden

The policy robustness and resilience trajectories of renewable energy innovation leaders: Analysing the promotion of bioenergy in Finland, wind energy in Denmark and solar power in Germany

Annukka Berg¹
Jani Lukkarinen^{1,2}
Kimmo Ollikka³

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³VATT Institute for Economic Research, Helsinki, Finland

SESSION F4 (FULL PAPERS) CHAIR: Luke Yates [ROOM 3.204]

TRACK 5

More than a Fuel Transition: Community Sustainability in the Global Energy Transition

Carola Calabuig Tormo¹
Ivan Cuesta-Fernandez²
Sara Latorre Tomás³
Victoria Pellicer Sifres¹
Sergio Belda Miquel¹

¹Universitat Politècnica de València, València, Spain. ²University of Edinburgh, Edinburgh, United Kingdom.

³Facultad Latinoamericana de Ciencias Sociales (FLACSO), Quito, Ecuador

Expectation dynamics in growing niche markets: A case study on the rise of renewable energy in Germany

Michael Kriechbaum
Angelika Meißl
Alfred Posch

University of Graz, Graz, Austria

Transformative Social Innovation: implications for transitions research

Bonno Pel¹
Alex Haxeltine²
René Kemp³
Adina Dumitru⁴
Flor Avelino⁵

¹Université Libre de Bruxelles, Brussels, Belgium. ²University of East Anglia, Norwich, United Kingdom.

³Maastricht University, Maastricht, Netherlands. ⁴Universidade da Coruña, A Coruña, Spain.

⁵Dutch Research Institute For Transitions, Rotterdam, Netherlands

Assessing the Needs of Ireland's First Generation of Sustainable Energy Communities

Anitha Sampath
John Lohan
Gabriel J Costello

Galway Mayo Institute of Technology, Galway, Ireland

WEDNESDAY AFTERNOON 13TH JUNE

14.45 - 16.15

SESSION F5 (FULL PAPERS) CHAIR: **Margardida Fontes**
[ROOM 4.204]

TRACK 6

Emerging business ecosystems in sustainability transitions:
lessons from the Finnish integrated energy services domain

David Lazarevic¹
Paula Kivimaa²
Jani Lukkarinen¹
Hanna-Liisa Kangas¹

¹Finnish Environment Institute, Helsinki, Finland. ²SPRU, Brighton, United Kingdom

Sustainability transition in Swedish process industry. The cases of iron and steel industry
and refining and chemical industry

Kersti Karltorp^{1,2}
Johanna Ulmanen¹

¹RISE Research Institutes of Sweden, Gothenburg, Sweden.
²Jönköping International Business School, Jönköping, Sweden

Carbon lock-out: Leading the fossil Port of Rotterdam into transition

Rick Bosman
Derk Loorbach
Jan Rotmans
Roel van Raak

Dutch Research Institute for Transitions, Rotterdam, Netherlands

SESSION F6 (FULL PAPERS) CHAIR: **Gregor Kungl**
[ROOM 4.205]

TRACK 6

Public incumbent actors in network industries –
investigating urban utility companies in the German and Swiss energy transition

Susan Mühlemeier

Ecole polytechnique fédérale de Lausanne, Lausanne, Switzerland

Mobilising publics for resilient water management

Emma Westling¹
Liz Sharp¹
Martina McGuinness¹
Alison Browne²

¹The University of Sheffield, Sheffield, United Kingdom.
²The University of Manchester, Manchester, United Kingdom

Small firms in sustainability transitions:
Opening the black box of how businesses shape urban transformations

Christopher Luederitz
Linda Westman
Aravind Kundurpi
Alexander J. Mercado
Janetta Mckenzie
Scott M. Ninomiya
Sarah Burch

Geography and Environmental Management, Faculty of Environment,
University of Waterloo, Waterloo, ON, Canada





SESSION F7 (FULL PAPERS) CHAIR: Emma Westling
[ROOM 4.206]

TRACK 7

Transitioning to low-carbon housing: Don't forget the users

Graeme Sherriff
Trivess Moore²
Stephen Berry³

¹University of Salford, Salford, United Kingdom. ²Royal Melbourne Institute of Technology, Melbourne, Australia.
³University of South Australia, Adelaide, Australia

Transitioning to 'slower consumption':
Replacement cycles in the British mobile phone market (2000-2017)

Harald Wieser

Sustainable Consumption Institute, University of Manchester, Manchester, United Kingdom

Making Visions for Transitions in SCP: overview of methods and cases

Jaco Quist

TU Delft, Delft, Netherlands

Opportunities and barriers for implementing biochar as a carbon sink in agricultural systems

Markus Steen¹
Brobakk Jostein²
Trond Halvorsen¹
Pia Otte²
Maria K. Thomassen¹

¹Department of Industrial Management, SINTEF Technology and Society, Trondheim, Norway.
²Ruralis – Institute for Rural and Regional Research, Trondheim, Norway

SESSION F8 (FULL PAPERS) CHAIR: Frank Boons
[ROOM 4.211]

TRACK 10

Transition topology – a methodological approach to map (systemic) change in transition paths

Simone Strambach
Gesa Pflitsch

Philipps-University, Marburg, Germany

Realizing a Model-Stakeholder Balance in Mobility Transitions towards Sustainability

Jahel Mielke^{1,2}
Andreas Geiges¹

¹Global Climate Forum, Berlin, Germany. ²Universität Potsdam, Potsdam, Germany

Changing the energy system towards sustainability. A co-simulation framework

Johannes Weyer¹
Fabian Adelt¹
Sebastian Hoffmann¹
Diego I. Hidalgo
Rodríguez¹
Johanna Myrzik²

¹TU Dortmund, Dortmund, Germany.

²University of Bremen, Bremen, Germany

SESSION F9 (FULL PAPERS) CHAIR: Charlie Wilson
[ROOM 1.219]

TRACK 1

Social impact of sharing practices

Alexandra Kessler

CSCP, Wuppertal, Germany

Peer-To-Peer electricity trading via blockchain:
comparative case study of technological innovation system build-up

Kristina Hojckova
Björn Sandén
Helene Ahlborg

Chalmers University of Technology, Gothenburg, Sweden

Rage Against the Regime:
Niche-regime interactions in the societal embedding of plant-based milk

Jo Mylan¹
Carol Morris²
Emma Beech²
Frank Geels¹

¹University of Manchester, Manchester, United Kingdom. ²University of Nottingham, Nottingham, United Kingdom

WEDNESDAY AFTERNOON 13TH JUNE

16.30 - 17.30

SESSION **G1** (SPEED TALKS) CHAIR: Marc Dijk [ROOM 2.220]

TRACK 1

The transition of social sustainability discourses in international and national politics.
The example of biofuels

[Judith Janker](#)^{1,2}
[Mariana Cerca](#)³

¹Agroscope, Ettenhausen, Switzerland. ²University Bern, Bern, Switzerland. ³Humboldt-Universität zu Berlin, Berlin, Germany

Challenges and solutions for the transition to a circular economy model in the furniture
manufacturing industry

[Steven Whitehill](#)¹
[Dr Carolyn Hayles](#)²
[Dr Sean Jenkins](#)¹
[Gareth Banks](#)³
[Jim Taylour](#)³

¹Faculty of Art and Design, University of Wales, Trinity Saint David, Swansea, United Kingdom.
²Institute of Sustainable Practice, Innovation and Resource Effectiveness (INSPIRE), University of Wales
Trinity St David, Swansea, United Kingdom. ³Orangebox Ltd, Nantgarw, Cardiff, United Kingdom

The role of biogas in the Swedish transition towards renewable energy

[Sofia Dahlgren](#)

Linköping University, Linköping, Sweden

Should we buy, borrow, or share the product?
A categorization approach to deduce sustainable consumption styles of products

[Eri Amasawa](#)
[Tsubasa Shibata](#)
[Yurie Suzuki](#)
[Dami Moon](#)
[Masahiko Hirao](#)

The University of Tokyo, Tokyo, Japan

Towards a New Framework for Studying Socio-Technical Implications of Energy Transitions

[Michael Ornetzeder](#)

Austrian Academy of Sciences, Vienna, Austria

SESSION **G2** (SPEED TALKS) CHAIR: Bipashyee Ghosh [ROOM 2.218]

TRACK 2

Analyzing the development path of bioclusters: a multiscale approach

[David Ayrapetyan](#)
[Ram Kamath](#)
[Frans Hermans](#)
[Kerstin Wilde](#)

IAMO, Halle (Saale), Germany

The Humanity Embodied in Transitions to Sustainability:
Flexible epistemological tools for messy social dynamics

[Barbara Ribeiro](#)

The University of Auckland, Auckland, New Zealand

The sociotechnical trialectic: introducing a novel model for the exploration of transition dynamics

[Paul Graham Raven](#)
[Joby Boxall](#)
[Liz Sharp](#)

University of Sheffield, Sheffield, United Kingdom

Historical hype cycles and innovation failure:
a comparison of nuclear and wave energy technologies from 1945 to present

[Matthew Hannon](#)
[Niall MacKenzie](#)

Hunter Centre for Entrepreneurship, Strathclyde Business School, University of Strathclyde, Glasgow, United Kingdom

From Diffusion of Innovations to System Transformation

[Charlie Wilson](#)

Tyndall Centre for Climate Change Research, Norwich, United Kingdom

Integrating the technological innovation system and multi-level frameworks for the analysis of an
ongoing transition from the 1G to 2G bioethanol in Brazil (1975-2017)

[Marcelo F. Tete](#)

Universidade Federal de Goiás, Goiânia, Brazil



SESSION **G3** (SPEED TALKS) CHAIR: Häkon Normann [ROOM 1.218]

TRACK 3

De-carbonization without Democratization? Energy Transition amid Political Transition - the case of Tunisia

[Shahrazad Far](#)

BICC, Bonn, Germany

Actors in transition:
exploring the shifting roles and power relations in Swedish sustainable housing development

[Pernilla Hagbert](#)
[Tove Malmqvist](#)

KTH Royal Institute of Technology, Stockholm, Sweden

Analysing beliefs in energy transitions: The cases of Denmark, France, and Germany

[Meike Lühr](#)

Carl von Ossietzky University, Oldenburg, Germany

Theories of Power for Social Transformation:
Contesting the Implications of Different Theories of Power for Sustainability Transitions

[Flor Avelino](#)

DRIFT, Rotterdam, Netherlands

Diffusion of Fuel Cell Vehicles in Japan, renewable energy model versus fossil energy model

[Midori Aoyagi¹](#)
[Fred Steward²](#)
[Ritsuko Ozaki³](#)

¹National Institute for Environmental Studies, Tsukuba, Japan. ²University of Westminster, London, United Kingdom.

³University of Winchester, Winchester, United Kingdom

SESSION **G4** (SPEED TALKS) CHAIR: Mark Winskel [ROOM 3.204]

TRACK 4

Capturing transformative efforts in policy and research evaluations

[Sofie Sandin¹](#)
[Lena Neij¹](#)
[Mats Benner²](#)

¹IIIEE, Lund University, Lund, Sweden. ²Department of Business Administration, Lund University, Lund, Sweden

Coordinating Sustainable (Technological) Innovation - The Case of Solar PV in Brazil

[Andreas P. Kopp](#)

University College London, London, United Kingdom

Thinking about policies for sustainability transitions:
Bridging national innovation system theory and transitions studies

[Allan Dahl Andersen](#)
[Jan Fagerberg](#)
[Christine Mee Lie](#)

TIK Centre for Innovation, Technology and Culture, University of Oslo (UiO), Oslo, Norway

Transforming the agri-food sector:
a study of institutional work for the growth of plant-based protein innovations

[Maria Tziva](#)

Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands

The influence of public funding on community-based initiatives in Germany

[Anna Betsch](#)
[Markus Egermann](#)

Leibniz-Institute of Ecological Urban and Regional Development, Dresden, Germany

WEDNESDAY AFTERNOON 13TH JUNE

16.30 - 17.30

SESSION **G5** (SPEED TALKS) CHAIR: **Wouter Spekkink** [ROOM 4.204]

TRACK 5

Exploring fertile discursive spaces. A corpus-based study of sustainability transition discourses in four civil society's proposals

Giuseppe Feola^{1,2}
Sylvia Jaworska²

¹Utrecht University, Utrecht, Netherlands. ²University of Reading, Reading, United Kingdom

Public views on the UK energy transition: Towards more transparency and less profits

Sarah Becker
Christina Demski
Darrick Evensen
Erin Roberts
Nick Pidgeon

Cardiff University, Cardiff, United Kingdom

Mass-consumption as an activator of sustainable consumerist potentials

Mikael Klintman²

¹Örebro University, Örebro, Sweden. ²Lund University, Lund, Sweden

Tweets and transitions: Ontario (Canada) electricity policy in the media and social media landscapes

Dane Labonte
Ian Rowlands

University of Waterloo, Waterloo, Canada

Commoning - a new approach to transitions in waste systems and practices?

Sara Skarp
Tom Hargreaves
Gill Seyfang

University of East Anglia, Norwich, United Kingdom

SESSION **G6** (SPEED TALKS) CHAIR: **Alejandro Nunez-Jimenez** [ROOM 4.211]

TRACK 6

UK Transitions in Energy and Material use and UK Manufacturing SMES: a Discourse Analysis

Ann Stevenson

Cardiff University, Cardiff, United King

Intermediation services and adopters' needs and demands during the implementation of innovation – match or mismatch?

Ingrid Mignon
Joakim Aspeteg

Chalmers University of Technology, Gothenburg, Sweden

Bioeconomy configuration – perceptions at the micro-level of actors

Kerstin Wilde
Frans Hermans
David Ayrapetyan
Rammohan Kamath

Iamo, Halle, Germany

Collaborations towards circularity: insights from the Swiss experience

Valeria Superti¹
Darya Gerasimenko^{1,2}

¹EPFL, Lausanne, Switzerland. ²HSG, Sankt Gallen, Switzerland

From grid operator to DSO; a study of local electricity grid operators in Sweden and their capabilities to integrate solar PV

Petter Johansson¹
Martin Vendel²
Cali Nuur²

¹Institute for Management of Innovation and Technology, Göteborg, Sweden.

²Industrial Economics and Management, KTH Royal Institute of Technology, Sweden

Barriers and drivers in the emergence of a market for vehicle-to-home and vehicle-to-grid solutions

Jörg Musiolik

Zürich university of applied sciences, Winterthur, Switzerland



SESSION **G7** (SPEED TALKS) CHAIR: Frank Geels [ROOM 4.212]

TRACK 6

The contribution of bottom-up sustainability initiatives in pushing a degrowth transition at regional and national levels

Inês Cosme

CENSE - Center for Environmental and Sustainability Research, Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa, Lisbon, Portugal

RenewGrowth. Conditions for Growth in Renewable Energy Industries. Accessing Global Markets

Adriaan van der Loos
Simona Negro
Marko Hekkert

Utrecht University, Utrecht, Netherlands

Mobility as a Service platforms: how different business strategies shape an emerging sustainable mobility alternative

Tanja Manders

Eindhoven University of Technology, Eindhoven, Netherlands

Bees and Trees - a novel way for large companies and startups to co-create sustainable innovation

Satu Lähteenoja¹
Tyrra Linko¹
Mika Kuisma²
Armi Temmes²

¹Demos Helsinki, Helsinki, Finland. ²Aalto University, Helsinki, Finland

The value chain for valorisation of organic waste in promotion of a circular bioeconomy: A literature review

Jay Sterling Gregg¹
Maaïke Happel¹
Simon Bolwig¹
Markus Bugge²
Anne Tanner¹
Antje Klitkou²

¹Technical University of Denmark, Kgs. Lyngby, Denmark.

²Nordic Institute for Studies in Innovation, Research and Education, Oslo, Norway

SESSION **G8** (SPEED TALKS) CHAIR: Bernhard Truffer [ROOM 4.213]

TRACK 8

Cities in sustainability transitions: comparing Helsinki and Istanbul

Anna Kuokkanen¹
Mahir Yazar²

¹LUT University, Lahti, Finland. ²Boğaziçi University, Istanbul, Turkey

Growing urban sustainability transitions: Exploring how the governance of green infrastructure shapes urban transformations

Arvind Kundurpi

University of Waterloo, Waterloo, Canada

Learning hard or hardly learning? Exploring processes of experiential, transformative and social learning in an Urban Living Lab

Gavin McCrory

Chalmers University of Technology, Gothenburg, Sweden. Lund University Centre for Sustainability Studies, Lund, Sweden

Community-based Virtual Power Plant (cVPP) for radical decarbonisation and empowerment of low-carbon community-driven energy initiatives

Anna J. Wiczorek¹
Luc van Summeren¹
Geert Verbong¹
Sylvia Breukers²
Ruth Mourik²

¹Eindhoven University of Technology, Eindhoven, Netherlands. ²Duneworks, Eindhoven, Netherlands

WEDNESDAY AFTERNOON 13TH JUNE

16.30 - 17.30

SESSION G9 (DIALOGUE) CHAIR:
[ROOM 4.205]

Understanding "Processes of Sustainability Transformation" - an inter- and transdisciplinary project

Leuphana Universität, Lüneburg, Germany

TRACK 11

Lydia Kater-Wettstädt
Felix Beyers
Charlott Hübel
Sadhbh Juarez Bourke
Stefan Hilser

SESSION G10 (DIALOGUE)
[ROOM 4.206]

Accelerating sustainable transitions: putting research into practice

Tyndall Centre for Climate Change Research, University of Manchester, Manchester, United Kingdom

TRACK 6

Claire Hoolohan





SESSION **G11** (SPEED TALKS) CHAIR: Johannes Halbe [ROOM 1.219]

TRACK 10

Transitioning to the bioeconomy: modeling the trajectories of bioclusters

Leibniz Institute of Agricultural Development in Transition Economies, Halle (Saale), Germany

Ram Kamath
Frans Hermans
Kerstin Wilde
David Ayrapetyan

Time lags between policy implementation and market diffusion: An empirical framework for low-carbon technological change in Austria

¹JOANNEUM RESEARCH Forschungsgesellschaft mbh, Graz, Austria.

²Alpen-Adria-University and University of Natural Resources and Life Sciences, Vienna, Austria

Sebastian Seebauer¹
Veronika Kulmer¹
Willi Haas²
Michaela Theurl²

Modeling industrial and urban regions: are they machines or ecosystems?

University of Manchester, Manchester, United Kingdom

Julia Kasmire

A Framework for Systematic Meta-Analysis of Transitions Case Studies

¹Melbourne School of Design and Melbourne Sustainable Society Institute, The University of Melbourne, Melbourne, Australia.

²School of Social Sciences, Faculty of Arts, Monash University, Melbourne, Australia.

³Department of Chemical and Biomolecular Engineering, The University of Melbourne, Melbourne, Australia

Fjalar de Haan¹
Alfonso Martínez
Arranz^{2,3}

Analytical Representation of Service Provision Systems:
A Modular, Multi-Scale Modelling Framework Applied to Urban Electricity Provision

The University of Melbourne, Melbourne, Australia

Angela Maria Rojas
Arevalo
Fjalar de Haan
Seona Candy
Lu Aye
Greg Foliente

Vision Modeling in Sustainability Transitions Research

McGill University, Montreal, Canada. Institute of Environmental Systems Research, Osnabrueck, Germany

Johannes Halbe

SESSION **G12** (DIALOGUE) [ROOM 4.214]

TRACK 2

Transition studies and sustainability science – Promising intersections ahead?

¹Eawag - Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland.

²Chalmers University of Technology, Gothenburg, Sweden.

³Utrecht University, Utrecht, Netherlands.

⁴HTW Chur, Chur, Switzerland.

⁵University of Sussex (SPRU), Brighton, United Kingdom.

⁶Harvard Kennedy School of Government, Cambridge, USA

Christian Binz¹
Helene Ahlborg²
Sverker Molander²
Marko Hekkert³
Dorith Vermunt³
Tobias Luthe⁴
Fiona Marshall⁵
William C. Clark⁶

THURSDAY 14TH JUNE

THURSDAY MORNING 14TH JUNE



KEY

- | | |
|---|---|
|  FULL PAPERS |  1 ST FLOOR |
|  SPEED TALKS |  2 ND FLOOR |
|  DIALOGUE |  3 RD FLOOR |
| [] LOCATION |  4 TH FLOOR |

09.30 - 11.00



PARALLEL SESSION H

H1 - TRACK 1 Whole system reconfiguration across production and consumption [2.220] =	H2 - TRACK 2 Theoretical contributions to transition frameworks [2.218] =	H3 - TRACK 3 Politics and power in transitions [3.204] =	H4 - TRACK 4 Governance and policy instruments for stimulating transitions [4.204] =	H5 - TRACK 6 Organizations and industries in sustainability transitions [4.205] =
H6 - TRACK 6 Organizations and industries in sustainability transitions [4.206] =	H7 - TRACK 8 Local and urban transitions [4.211] =	H8 - TRACK 8 Local and urban transitions [1.219] =	H9 - TRACK 9 Transitions in low income and developing countries [1.218] =	H10 - TRACK 10 Methodological advances to study transitions, including modelling [4.212] =

11.00 - 11.30 REFRESHMENTS

11.30 - 13.00

PARALLEL SESSION I

I1 - TRACK 1 Whole system reconfiguration across production and consumption [2.218] =	I2 - TRACK 2 Theoretical contributions to transition frameworks [2.220] =	I3 - TRACK 4 Governance and policy instruments for stimulating transitions [1.218] =	I4 - TRACK 6 Organizations and industries in sustainability transitions [3.204] =	I5 - TRACK 6 Organizations and industries in sustainability transitions [4.204] =
I6 - TRACK 8 Local and urban transitions [4.205] =	I7 - TRACK 11 New frontiers - new directions [1.219] =	I8 - TRACK 4 Governance and policy instruments for stimulating transitions [4.206] =	I9 - TRACK 9 Transitions in low income and developing countries [4.211] =	

13.00 - 14.00 LUNCH



THURSDAY MORNING 14TH JUNE

09.30 - 11.00

SESSION H1 (FULL PAPERS) CHAIR: Miklós Antal
[ROOM 2.220]

TRACK 1

Continuity and Disruption in UK Energy System Transition:
Evidence from a survey of energy experts

Michael Kattirtzi^{1,2}
Mark Winskel^{1,2}

¹University of Edinburgh, Edinburgh, United Kingdom. ²UK Energy Research Centre, London, United Kingdom

Brewing up sustainability transitions: the role of small businesses in constructing sustainability
niches that transform global industries toward localized economies

Christopher
Luederitz¹
Guido Caniglia²

¹Geography and Environmental Management, Faculty of Environment, University of Waterloo, Waterloo, ON, Canada. ²Institute of Ethics and Transdisciplinary Sustainability Research, Faculty Sustainability, Leuphana University of Lüneburg, Lüneburg, Germany

Emerging clean energy and decarbonization regimes:
reimagining contestation in the multi-level perspective

Yonatan Strauch

University of Waterloo, Waterloo, Canada

The great reconfiguration: A comparative, socio-technical analysis of speeds and pathways in
unfolding UK low-carbon transitions in electricity, mobility
and agro-food systems

Frank Geels¹
Bruno Turnheim^{1,2,3,4}

¹University of Manchester, Manchester, United Kingdom. ²King's College London, London, United Kingdom.
³LISIS, Paris, France. ⁴SPRU, Brighton, United Kingdom

SESSION H2 (FULL PAPERS) CHAIR: Annika Arnold
[ROOM 2.218]

TRACK 2

Cultural Narrative Analysis as a way for advancing the Multi-Level Perspective (MLP)

Annika Arnold¹
Jens Schippl²
Sandra Wassermann¹

¹University of Stuttgart - Center for Interdisciplinary Risk and Innovation Studies (ZIRIUS), Stuttgart, Germany.

²Karlsruhe Institute of Technology (KIT) - Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe, Germany

Combining Actor Network Theory and the Multi-Level-Perspective of Transitions Management.
Can we better explain agency of actors or processes that advance niche innovations?

Margot Hurlbert¹
Kathy McNutt¹
Jeremy Rayner²
Osayomwanbor
Osazuwa¹

¹Johnson-Shoyama Graduate School of Public Policy, Regina, Canada.

²Johnson-Shoyama Graduate School of Public Policy, Saskatoon, Canada

A whole system approach to agency in transitions: evidence of a combined effect of multiple niches

Sibylle Bui

Université Catholique de Louvain, Louvain-la-Neuve, Belgium



SESSION H3 (FULL PAPERS) CHAIR: Flor Avelino
[ROOM 3.204]

TRACK 3

Politics of climate change: ETS as a Trojan horse?

Jochen Markard¹
Daniel Rosenbloom²

¹ETH Zurich, Zurich, Switzerland. ²Carleton University, Ottawa, Canada

Advocacy coalitions in EU energy policy – Indicators of an advancing transition?

Marie Byskov Lindberg¹
Jochen Markard²

¹Centre for Technology, Innovation and Culture, University of Oslo, Oslo, Norway.
²Group for Sustainability and Technology, Swiss Federal Institute of Technology Zurich, Zürich, Switzerland

Conditions for deliberate destabilisation of established industries:
Lessons from US tobacco-control policy and the closure of Dutch coal mines

Håkon Endresen Normann

TIK Centre for Technology, Innovation and Culture, University of Oslo, Oslo, Norway

How sociotechnical imaginaries rise on the policy agenda and gain power:
the case of the transition from waste to the circular economy in Flanders

Erik Paredis
Thomas Block

Ghent University, Ghent, Belgium

SESSION H4 (FULL PAPERS) CHAIR: Rick Bosman
[ROOM 4.204]

TRACK 4

Policy path dependency and the governance of transitions –
explaining a policy's stickiness through its design

Tobias Schmidt
Sebastian Sewerin
Blair Bateson

ETH Zurich, Zurich, Switzerland

Guiding Systemic Change:
A Cross-case analysis of 'transition labs' in Canada and Sweden

Johan Larsson¹
Stephen Williams²
John Holmberg¹

¹Chalmers University of Technology, Gothenburg, Sweden. ²University of British Columbia, Vancouver, Canada

Adaptation, mitigation and transformation pathways for high-end scenarios across scales in Europe

Niki Frantzeskaki¹
Katharina Hölscher¹
Ian Holman²
Simona Pedde³
Jill Jäger⁴
Paula Harrison⁵

¹DRIFT, Rotterdam, Netherlands. ²Cranfield University, Cranfield, United Kingdom.
³Wageningen University, Wageningen, Netherlands. ⁴Independent, Vienna, Austria.
⁵Lancaster Environment Centre, Lancaster, United Kingdom

SESSION H5 (FULL PAPERS) CHAIR: Jörg Musiolik
[ROOM 4.205]

TRACK 6

Location and technology: An examination of cases and theories of invention, development and
innovation of power generation and lighting technologies

David Foord

University of New Brunswick, Fredericton, Canada

Tension within a global regime and natural resource issues contributing to the dynamics of a national
industry: interpreting the change of the Finnish forest-based industry 1996-2017

Jakob Donner-Amnell

University of Eastern Finland, Joensuu, Finland

Incumbent industries as obstacles to sustainability transitions? –
a comparison of the German electricity and automobile industries

Gregor Kungl

University of Stuttgart, Stuttgart, Germany

THURSDAY MORNING 14TH JUNE

09.30 - 11.00

SESSION H6 (FULL PAPERS) CHAIR: Anna Bergek
[ROOM 4.206]

TRACK 6

Ensuring protection and competitiveness: Characteristics of market formation for biogas

Linköping University, Linköping, Sweden

Thomas Magnusson
Hans Andersson
Mikael Ottosson

Strategic partnerships in the renewable energy sector in Portugal

¹Instituto Universitário de Lisboa (ISCTE-IUL), Lisboa, Portugal. ²DINAMIA/CET-IUL, Lisboa, Portugal. ³Univ Portucalense, Research on Economics, Management and Information Technologies - REMIT, Oporto, Portugal. ⁴BRU-IUL, Lisboa, Portugal

Isabel Salavisa^{1,2}
Cristina Sousa^{3,2}
Teresa Calapez^{1,4}

Incumbents' role in sustainability transitions -
From gatekeepers to bridge builders

Aalto University School of Business, Helsinki, Finland

Eeva-Lotta Apajalahti

SESSION H7 (FULL PAPERS) CHAIR: Mike Hodson
[ROOM 4.211]

TRACK 8

Seedbeds, harbours and battlegrounds:
on the origins of favourable contexts for urban experimentation with sustainability

¹SPRU - Science Policy Research Unit, University of Sussex, Brighton, United Kingdom.

²Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands

Jonas Torrens¹
Johan Schot¹
Rob Raven²
Philip Johnstone¹

Co-shaping urban mobility innovation across geographical contexts.
The case of bike-sharing in the Netherlands and China

Copernicus Institute of Sustainable Development, Utrecht, Netherlands

Arnoud van Waes
Rob Raven
Jacco Farla

Co-evolution of urban experimentations and institutional arrangements:
Experimenting with local government management practices in smart cities projects

¹Manchester School of Architecture / Manchester Metropolitan University, Manchester, United Kingdom.

²School of Environment, Education and Development / The University of Manchester, Manchester, United Kingdom

Amir Saleh Haghayegh Khorasani^{1,2}
Ulysses Sengupta¹
Robert Hyde¹

SESSION H8 (FULL PAPERS) CHAIR: Ingrid Mignon
[ROOM 1.219]

TRACK 8

Understanding and supporting development pathways of sustainable coupled infrastructure innovations: a structuration perspective on influencing factors and agency

¹DRIFT, Rotterdam, Netherlands.

²Ecologic Institute, Berlin, Germany.

³Leibnitz Institute of Ecological Urban and Regional Development (IOER), Dresden, Germany.

⁴Brandenburg University of Technology Cottbus – Senftenberg, Cottbus, Germany

Katharina Hölscher¹
Julia M. Wittmayer¹
Martin Hirschnitz-Garbers²
Alfred Olfert³
Mandy Hinzmann²
Susanne Langsdorf²
Jörg Walther⁴
Georg Schiller³

Urban sustainability experiments in their socio-economic milieu: A quantitative approach

King's College London, London, United Kingdom

Irene Håkansson

The Olympics: game changers for systemic urban transitions?

University of Geneva, Geneva, Switzerland

Joachim Monkelbaan



SESSION H9 (FULL PAPERS) CHAIR: Minelle Silva
[ROOM 1.218]

TRACK 9

Sustainable Consumption Practices in Brazil:
the Perception of the Individual Own Responsibility, of the Other People and the Government
Federal University of Ceará, Fortaleza, Brazil

Aurio Leocadio
Aline Bezerra
Rômulo Soares
Jose Lazaro

Piecing together the fragments: The case of solar PV niche in Uganda (1985-2015)
UNEP-DTU Partnership, Technical University Denmark, Copenhagen, Denmark

Padmasai Lakshmi
Bhamidipati
Ulrich Elmer Hansen
James Haselip

Changing user practices in Nicaragua:
Farmers' values, beliefs, and norms and the transition to agroecological farming

Katharina Schiller^{1,2}
P. Marijn Poortvliet²

¹International Center for Tropical Agriculture, Managua, Nicaragua.
²Wageningen University and Research Centre, Wageningen, Netherlands

Anchoring innovations in oscillating domestic spaces:
Why sanitation service offerings fail in informal settlements

Pauline C. Cherunya^{1,2}
Helene Ahlberg³
Bernhard Truffer^{1,2}

¹Eawag, Dübendorf, Switzerland. ²Utrecht University, Utrecht, Netherlands.
³Gothenburg University, Gothenburg, Sweden

SESSION H10 (FULL PAPERS) CHAIR: Julia Kasmire
[ROOM 4.212]

TRACK 10

Action modelling research for sociotechnical transitions

George Papachristos¹
Jonathan Köhler²
Johannes Halbe³

¹University College London, London, United Kingdom. ²Fraunhofer ISI, Karlsruhe, Germany.
³University of Osnabrück, Osnabrück, Germany

Mapping perspectives on sustainability transitions towards circular economy models from a
practitioner's perspective

Cristian Matti^{1,2}
Julia Panny¹
Cliona Howie^{3,4}
Damaris Fernandez^{5,6}
Jose Manuel Corvillo⁷
Tiernan O'Sullivan^{6,5}
Blanca JuanAgulló¹

¹Climate-KIC, Brussels, Belgium. ²Utrecht University, Utrecht, Netherlands. ³Climate-KIC, San Sebastian, Spain.
⁴University of Cantabria, San Sebastian, Spain. ⁵EIT Raw Materials, Dublin, Ireland.
⁶Trinity College Dublin, Dublin, Ireland. ⁷University of Valencia, Valencia, Spain

Promoting sustainability through demand: modeling public procurement in the context
of socio-technical transitions

Paula Trindade¹
Paula Antunes²
Paulo Partidário³

¹LNEG - National Laboratory of Energy and Geology, Lisbon, Portugal. ²CENSE - Centre for Environmental and
Sustainability Research, NOVA School of Science and Technology, Universidade Nova de Lisboa, Caparica, Portugal.
³DGEG-DEIR: Directorate General of Energy and Geology, Lisbon, Portugal

THURSDAY MORNING 14TH JUNE

09.30 - 11.00

SESSION I1 (FULL PAPERS) CHAIR: PJ Beers
[ROOM 2.218]

TRACK 1

Untangling the different shades of green of the Italian forest-based sector towards a sustainable energy transition

Unitelma Sapienza, Rome, Italy

Pasquale Marcello Falcone
Almona Tani
Valentina Elena Tartiu

Paying for transitions: The allocation of 'whole system' energy costs and implications for the study of sustainability transitions

Science, technology and Innovation Studies, School of Social and Political Science, The University of Edinburgh, Edinburgh, United Kingdom

Ronan Bolton

New business models for reconfiguring Dutch agrifood consumption and production systems

¹HAS University of Applied Sciences, Den Bosch, Netherlands. ²DRIFT / Erasmus University Rotterdam, Rotterdam, Netherlands

PJ Beers^{1,2}
Marjo Baeten¹

The Culture of Energy: Innovation, Society and Energy Security

Central European University, Budapest, Hungary

Michael Labelle

SESSION I2 (FULL PAPERS) CHAIR: Johan Schot
[ROOM 2.220]

TRACK 2

Spatial patterns of transitions in the mobility sector: applying the concept of service regimes and sectoral regimes to anticipate changes in urban and rural transport systems

¹Institute of Technology Assessment and Systems Analysis (ITAS) at Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany.

²Faculty of Geosciences, Utrecht University, Utrecht, Netherlands. ³Eawag, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland

Jens Schippel¹
Bernhard Truffer^{2,3}

Sustainability Transitions in Heterogeneous Contexts:
An integrated perspective on basic service innovation in informal settlements

¹Utrecht University, Utrecht, Netherlands.

²Eawag, Dübendorf, Switzerland.

³Chalmers, Gothenburg, Sweden.

⁴Clark University, Worcester (MA), USA.

⁵University of Bern, Bern, Switzerland

Bernhard Truffer^{1,2}
Helene Ahlborg³
Mara van Welie²
Pauline Cherunya²
James T. Murphy⁴
Christoph Lüthi²
Susanne Wymann von Dach⁵

Using evolutionary concepts of socio-technical change to map transition pathways:
Analysing public transport regimes in transition in an Indian megacity

Science Policy Research Unit, University of Sussex, Brighton, United Kingdom

Bipashyee Ghosh
Johan Schot



SESSION I3 (FULL PAPERS) CHAIR: Jonas Torrens

[ROOM 1.218]

TRACK 4

Governing Competing Technological Innovation Systems for Sustainability Transitions – Lessons from the German Energy Transition

Carsten Schwäbe
Carsten Dreher

Freie Universität Berlin, Berlin, Germany

Recovery after the disappointment: a policy perspective

Margarida Fontes¹
Nuno Bento^{2,3}

¹LNEG – National Laboratory of Energy and Geology, Lisboa, Portugal. ²DINÂMIA'CET, ISCTE-IUL, Lisboa, Portugal. ³Universidade Católica Portuguesa, Departamento de Economia, Gestão e Ciências Sociais de Viseu, Viseu, Portugal

Exploring the role of industrial policy and disruption in sustainability transitions

Phil Johnstone¹
Karoline Rogge¹
Paula Kivimaa¹
Chiara Fratini²
Eeva Primmer³

¹SPRU, University of Sussex, Brighton, United Kingdom. ²Department of Economics and Management (DISEI), University of Florence, Florence, Italy. ³Finnish Environment Institute (SYKE), Helsinki, Finland

Exploring the epistemic politics of circular economy in European cities: a research agenda with relevance for the governance of urban sustainability transitions

Chiara Farne¹ Fratini^{1,2}
Susse Georg²
Michael Søgaard
Jørgensen²

¹University of Florence, Florence, Italy. ²Aalborg University, Copenhagen, Denmark

SESSION I4 (FULL PAPERS) CHAIR: Jens Hanson

[ROOM 3.204]

TRACK 6

Learning for sustainability transitions: a discussion on the role of mainstream business actors towards more sustainable food systems

Ionara Costa
Sibylle Bui
Olivier De Schutter
Tom Dedeurwaerdere

Université catholique de Louvain, Louvain-la-Neuve, Belgium

Running in packs or walking alone?
Exploring conditions for innovation system building for solar PV

Jens Hanson
Håkon Endresen
Normann

Centre for Technology, Innovation and Culture, University of Oslo, Oslo, Norway

The disruption of private car use – moving from ownership to access.
Insights from the Dutch Lease market

Karla Münzel
Taneli Vaskelainen
Wouter Boon
Koen Frenken

Utrecht University, Utrecht, Netherlands

SESSION I5 (FULL PAPERS) CHAIR: Laura Brinker

[ROOM 4.204]

TRACK 6

Experimentation to drive sustainable consumption through new business models: examples and transition relevance

Nancy Bocken^{1,2}
Jaco Quist³

¹IIEE, Lund University, Lund, Sweden. ²Industrial Engineering, TU Delft, Delft, Netherlands. ³TU Delft, Delft, Netherlands

Interactive learning and technology life-cycles – Explaining the patterns of innovation and learning in three clean energy technological innovation systems

Abhishek Malhotra¹
Tobias Schmidt¹
Joern Huenteler²

¹ETH Zurich, Zurich, Switzerland. ²World Bank, Washington DC, USA

Closing the Phosphorus loop:
An analysis of the changing innovation dynamics around measuring, removing and recovering P

Marlous
Blanckesteijn

Vrije Universiteit, Amsterdam, Netherlands

THURSDAY MORNING 14TH JUNE

09.30 - 11.00

SESSION 16 (FULL PAPERS) CHAIR: Harm van den Heiligenberg
[ROOM 4.205]

TRACK 8

Towards a practice-based perspective on transition:
underground parking in Maastricht (1965-2005)

Maastricht University, Maastricht, Netherlands

Jelena Stankovic
Marc Dijk
Anique Hommels
Julia Backhaus

Agency and Urban Transitions: Understanding the Capacity of City Governments for Sustainable
Mobility Experimentation

University College London, London, United Kingdom

Emilia Smeds

Local Sustainability Initiatives as niches for Innovation and Civic Engagement
in Societal Experiments

¹TU Delft, Delft, Netherlands. ²Sustainable Consumption Institute, Manchester, United Kingdom

Udo Pesch¹
Wouter Spekkink²
Jaco Quist¹

SESSION 17 (FULL PAPERS) CHAIR: Bonno Pel
[ROOM 1.219]

TRACK 11

Whole System Reconfigurations in the largest coal mining regions in Netherlands, Germany and
Japan from 1950s to the present: Introductory Comparative Transitions Case Study

¹Japan National Press Club, Tokyo, Japan. ²Asahi Shinbum, Tokyo, Japan. ³institute for gloval environmental strategies, Tokyo, Japan

Satoru Mizuguchi¹
Toru Ishii²
Junichi Fujino³

Measuring progress in the transition towards a circular economy

Utrecht University, Copernicus Institute of Sustainable Development, Utrecht, Netherlands

Denise Reike
Simona O. Negro
Marko P. Hekkert

Exploring the evolution of mass production (1765-2018) from the Deep Transitions perspective

¹University of Sussex, Falmer, United Kingdom. ²University of Tartu, Tartu, Estonia

Laur Kanger^{1,2}
Silver Sillak²

Upscaling, Legitimation and Guidance in New Energy Technologies -
The Case of Floating Offshore Wind

¹DINÂMIA'CET, ISCTE-IUL, Lisbon, Portugal. ²LNEG, Lisbon, Portugal

Nuno Bento¹
Margarida Fontes²



SESSION 18 (FULL PAPERS) CHAIR: Rainer Quitzow
[ROOM 4.206]

TRACK 4

'My Voice, My Place, My Project':
Participatory Governance for an Urban Transition towards Sustainability

Franziska Ehnert
Markus Egermann

Leibniz Institute of Ecological Urban and Regional Development, Dresden, Germany

Achieving sustainability transitions in residential energy use across Europe:
Do problem framings within existing initiatives match current and future needs?

Charlotte Jensen¹
Gary Goggins²
Frances Fahy²
Inge Røpke¹

¹Aalborg University (AAU), Copenhagen, Denmark. ²National University of Ireland, Galway (NUIG), Galway, Ireland

The overlooked importance of R&D tax credits in low-carbon transitions policy

Will McDowall

UCL Institute for Sustainable Resources, London, United Kingdom

SESSION 19 (FULL PAPERS) CHAIR: Jorrit Gosens
[ROOM 4.211]

TRACK 9

'We are all humming birds': Individual and collective transformations towards sustainable lifestyles
and consumption in urban India (Bangalore and Chennai)

Christoph Woiwode^{1,2}
Sathish Selvakumar³

¹Bath Spa University, Bath, United Kingdom. ²Indo-German Centre for Sustainability at Indian Institute of Technology Madras, Chennai, India. ³Indian Institute for Human Settlements (IIHS), Bangalore, India

Mechanisms of unrelated diversification enabling China's demonstration of nascent
renewable energy technologies: the case of concentrated solar power

Jorrit Gosens

Aalborg University, Copenhagen, Denmark

Challenging institutional constraints in emerging contexts:
Towards a typology of actor strategies for overcoming barriers to energy transitions in India

Suyash Jolly¹
Rob Raven²

¹Department of Human Geography, Lund University, Lund, Sweden.

²Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands




THURSDAY 14TH JUNE

THURSDAY AFTERNOON 14TH JUNE



KEY

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|  FULL PAPERS |  1 ST FLOOR |
|  SPEED TALKS |  2 ND FLOOR |
|  DIALOGUE |  3 RD FLOOR |
| [] LOCATION |  4 TH FLOOR |

14.00 - 15.00



PLENARY 4

[THEATRE B] _

CONFERENCE REFLECTIONS

PANEL DISCUSSION OF KEY INSIGHTS FROM IST2018, CONCLUDING REFLECTIONS ON THE CONFERENCE THEME AND INTRODUCTION TO IST2019

15.00 REFRESHMENTS



TUESDAY AFTERNOON 12TH JUNE

12.30 - 14.00

POSTER SESSION



TUESDAY AFTERNOON 12TH JUNE



1	A conceptual framework that combines transition studies with socio-ecological system perspectives: understanding key change processes for biodiversity preservation in agricultural landscapes Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands	Dorith Vermunt Simona Negro Pita Verweij Marko Hekkert
2	A neighbourhood battery and its potential impact on the Energy Transition ¹ Dutch Research Institute for Transitions and Erasmus School of Social and Behavioral Sciences, Erasmus University Rotterdam, Rotterdam, Netherlands. ² Dutch Research Institute for Transitions, Erasmus University Rotterdam, Rotterdam, Netherlands	Antonia Proka ¹ Matthijs Hisschemoller ² Derk Loorbach ²
3	Acceptance and attractiveness of freefloating car sharing – a comparison between electrical und conventional version ¹ Institute for Social-Ecological Research (ISOE), Frankfurt am Main, Germany. ² Institute for Applied Ecology, Berlin, Germany	Georg Sunderer ¹ Konrad Götz ¹ Wiebke Zimmer ²
4	Agency appearing as green consumerism: Rationales for deliberative action Lappeenranta University of Technology, Lappeenranta, Finland	Katariina Koistinen Paavo Tertsunen Anna Kuokkanen
5	Changing food consumption to increase its environmental sustainability: an application to Italy University of Milan, Milan, Italy	Elena Claire Ricci Alessandro Banterle
6	Community Smart Grids: Materializing New Spatial Projects of Electricity Supply in the Energy Transition ¹ University of Edinburgh, Edinburgh, United Kingdom. ² Universitat Politècnica de València, València, Spain	Ivan Cuesta-Fernandez ¹ Carola Calabuig Tormo ² Victoria Pellicer Sifres ² Sergio Belda Miquel ²
8	Cultural scripts of sustainability transition – case “BioEra” University of Eastern Finland, Joensuu, Finland	Sari Tuuva-Hongisto
9	Dealing with the niche: Incumbent firms’ strategies to handle niche innovation in the field of shared mobility TransZent, Wuppertal, Germany	Verena Hermelingmeier
10	Decoding space-time puzzles in energy transitions by tracking accountability relations University of Bergen, Bergen, Norway	Siddharth Sareen
11	Diffusion of China’s Coal-fired Power Generation Technologies: Historical Evolution and Development Trends China University of Mining and Technology, XUZHOU, China	Tao Lyu Meizhen Zhang
12	Effective social innovations for sustainable societal change ¹ TU Dortmund University, Dortmund, Germany. ² Federal Institute for Occupational Safety and Health (BAuA), Dortmund, Germany	Rick Hölsgens ¹ Aline Reichow ²
13	Exploring spatial reconfigurations between consumption and production through the socio-energy assemblage notion ¹ Université Grenoble Alpes, PACTE, Grenoble, France. ² EIFER, Karlsruhe, Germany	Gilles Debizet ¹ Melike Yalcin-Riollet ¹ Antoine Tabourdeau ²

TUESDAY AFTERNOON 12TH JUNE

12.30 - 14.00

POSTER SESSION






14	Governing urban transition towards a more circular system of building materials. Study of some experimentations of demolition materials' reuse in urban regeneration projects in Paris metropolitan area and the Randstad Holland	Agnès Bastin
	Sciences Po Paris, Paris, France	
15	Grand challenges on the ground: Exploring governance approaches in sustainability transitions	Rannveig Røste Markus Bugge Linn Meidell Dybdahl
	NIFU, Oslo, Norway	
16	Imagining Technology Transition as if the Natural World Mattered	Rachel Freeman
	University of Manchester, Manchester, United Kingdom	
17	Informing systemic instruments by examining the policy dimension of systemic problems	Luiz Gustavo Silva de Oliveira
	Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands. ICIS, Maastricht Univeristy, Maastricht, Netherlands	
18	Introducing Q-SoPrA: A software suite for qualitative analysis of social processes	Wouter Spekkink
	Sustainability Consumption Institute, University of Manchester, Manchester, United Kingdom	
19	Landscape, regimes and niches of whole system reconfiguration in the largest coal mining regions in Netherlands, Germany and Japan from 1950s to the present	Satoru Mizuguchi Toru Ishii
	Japan National Press Club, Tokyo, Japan	
20	Legitimizing the Sharing Economy: Insights from the Multi-level Perspective on Technological Transitions and the Business Model Innovation	Sérgio H. O. Lima ^{1,2,3} José C. L. Silva Filho ^{1,4,2} Áurio L. Leocádio ^{1,2}
	¹ Federal University of Ceará, Fortaleza, Brazil. ² Laboratório de Estudos para Sociedade Sustentável (LESS), Fortaleza, Brazil. ³ Centro Universitário Estácio do Ceará, Fortaleza, Brazil. ⁴ Laboratório de Inovação e Sustentabilidade (InoS), Fortaleza, Brazil	
21	Opportunities for Corporation and Development in Medical devices in ASEAN Countries	Chen-Hsun Weng Yu-Chi Liao Hsing-Yun Bu Yu-Sheng Lin
	MDIC,NCKU, Tainan, Taiwan	
22	Post-Capitalism and the Build-Environment: Re-defining Human Scale to Envision an Economically, Environmentally and Socially Sustainable Neighborhood for the Area of Manchester, Calgary, Canada	Naji Akbar
	Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia. University of Calgary, Calgary, Canada	
23	Practising change(s) – Social learning in grassroots initiatives meets transition theory	Raissa Ulbrich
	Institute for Environmental Systems Research, Osnabrück, Germany	
24	Rethinking the Trajectory of the East Asian Economic Development From a Transition Approach	Aki Nagano
	Kyoto, Japan	



25	Social Innovations' Transitions through the Multi-level Perspective's lens	Jose Carlos Lazaro ¹ Cleber Dutra ²
	¹ Federal University of Ceara, Fortaleza, Brazil. ² ZTG - TU-Berlin, Berlin, Germany	
26	Speeding up the transition of cities? Exploring systemic changes in the smart cities of Vienna, Amsterdam and Santander	Jörg Musiolik Vicente Carabias Hütter
	Zürich university of applied sciences, Winterthur, Switzerland	
27	Spreading the use of responsive adjustment mechanisms for renewable energy deployment policies: An agent-based modelling cross-country evaluation	Alejandro Nuñez-Jimenez ¹ Christof Knoeri ¹ Joern Hoppmann ^{1,2} Volker Hoffmann ¹ Fabian Rottmann ³
	¹ ETH Zurich, Zurich, Switzerland. ² University of Oldenburg, Oldenburg, Germany. ³ RWTH Aachen, Aachen, Germany	
28	The complex nature of the sharing economy - A systemic approach: A structural comparison of four car sharing organization models in Oslo, Norway	Ingrid Katrine Amundsen
	University of Oslo, Oslo, Norway. The Oslo School of Architecture, Oslo, Norway	
29	The diffusion of wind propulsion technologies in shipping: an agent-based model	Richard Karlsen George Papachristos Nishatabbas Rehmatulla
	University College London, London, United Kingdom	
30	The dual role of social innovation for the transition to sustainability	Jürgen Schultze Rick Hölsgens Marina Berchem
	TU Dortmund University, Dortmund, Germany	
31	The Energy Policy of China in Hydraulic Fracturing Technique in Coal Bed Methane Exploitation	Xiao Lin ¹ Haojie Lian ²
	¹ Aarhus University, Herning, Denmark. ² Taiyuan University of Technology, Taiyuan, China	
32	The role of energy efficiency in renovation processes - How building professionals integrate energy in building renovations	Katharina Reindl
	ISOE Institute for Social-Ecological Research, Frankfurt am Main, Germany	
33	Vitalisation work with an eco-learning-village in rural Eastern India: A strength-based approach	Sibaji Panda ¹ Ulrike Zeshan ²
	¹ Rural Lifeline Trust, Subarnapur Dist, India. ² University of Central Lancashire, Preston, United Kingdom	

CONFERENCE DINNER AND OTHER ACTIVITIES



CONFERENCE DINNER AT BARCA

	7.30pm	The informal, buffet dinner will be held at Barca Bar and Restaurant, situated in the heart of Castlefield. Barca is a Manchester institution, with stunning canal-side views, decked terrace and large outdoor area suitable for relaxing with colleagues, eating, drinking and maybe even doing some dancing!
	Walking directions map below Nearest tram stop Deansgate/Castelfield	
	8 and 9 Catalan Square, Castlefield, Manchester M3 4RU	

GUIDED CITY WALKING TOURS OF MANCHESTER

Tours will depart from the conference reception, where the guides from New Manchester Walks will meet you. Please bring £2 to cover the cost of a short bus ride into the city centre. If you have not already signed up but would like to join, please check availability at the conference reception.



POLITICAL MANCHESTER

	11th June	14th June	Manchester has a long history of political protest, dating back to the early days of the industrial revolution when social conditions here were the most deprived in the country. This led to dramatic events such as the Peterloo Massacre of 1819, the most violent political rally in British history, and the Suffragettes' disrupting a Liberal Party rally at the Free Trade Hall in 1905.
	5.15pm	3.15pm	

INDUSTRIAL MANCHESTER

	13th June	Manchester became the world's first modern-style industrial city in the late 18th century with the creation of the factory system which saw hundreds of workers toiling in the new manufactories, at first spinning cotton and later making formidable engines and machines. We visit Castlefield, the birthplace of modern industry, ending at the conference dinner venue.
	17.45pm	

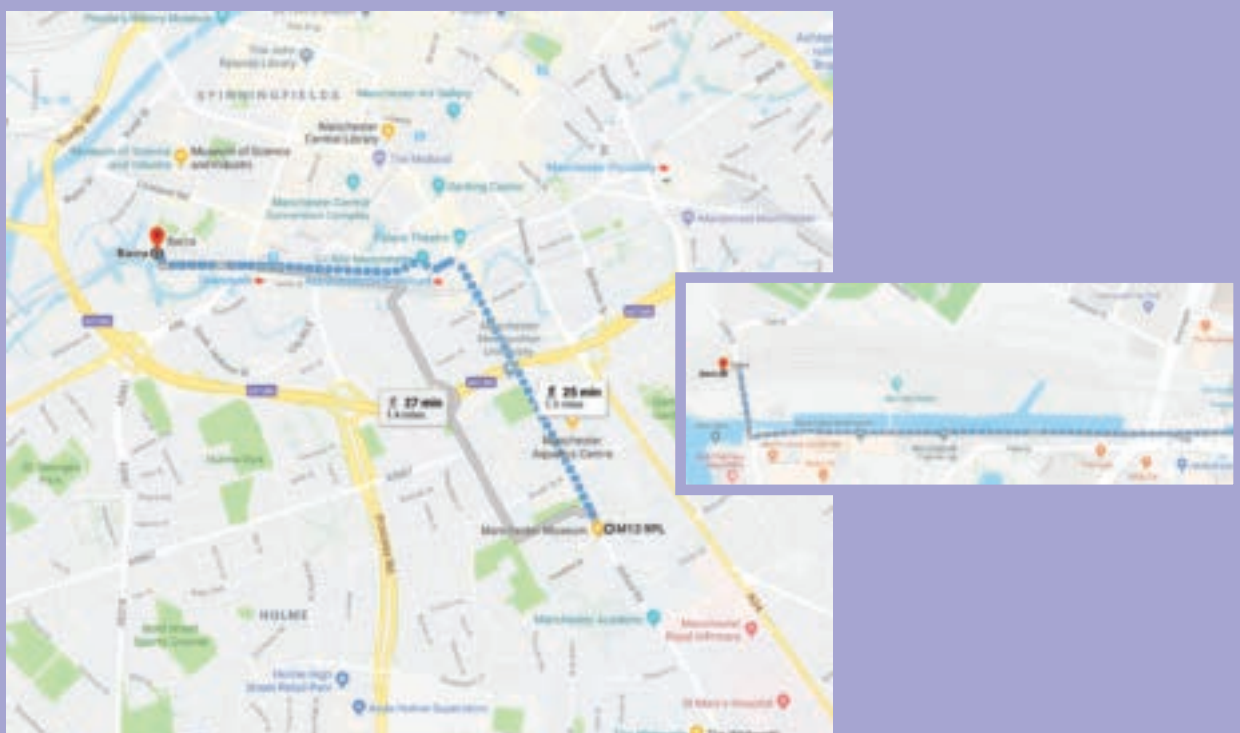
INNOVATIVE MANCHESTER

	11th June	14th June	Can any city match the scale and range of inventions that Manchester can boast of? Here the first computer was created, luxury cars were invented, competitive sport was devised, the atom was split and even vegetarianism developed!
	5.15pm	3.15pm	

LUNCHTIME CAMPUS HERITAGE TOURS




We will be offering a half hour heritage tour of the University campus at lunchtime on the 12 and 14 June. The tours cover our significant historic buildings and landmarks, notable individuals from the University's past and visit key sites of discovery. These are led by trained student Heritage Guides.

Please check for times and sign up at the registration desk.







THINGS TO DO IN MANCHESTER





MANCHESTER AQUATICS CENTRE

	Public swim sessions are available throughout the day Monday – Thursday.
	5 minutes away
	2 Booth Street East, Ardwick, Manchester M13 9SS
	Check timetable at: https://www.better.org.uk/leisure-centre/manchester/manchester-aquatics-centre/timetable/pool




MANCHESTER MUSEUM

	Daily - 10.00am – 5.00pm	Explore the world at Manchester Museum with its 4 floors of displays and exhibitions in 15 galleries, featuring collections from all over the world. Founded as a natural history museum in 1821, the University of Manchester-owned museum has grown to play host to a fascinating collection of exhibits. From a fossilised Tyrannosaurus Rex named Stan, anthropology collections from South America to the Museum's Manchester gallery; the museum will leave you desperate for more. In addition to the permanent exhibits, regular special exhibitions take place throughout the year.
	FREE	
	Opposite the conference venue	
	Oxford Road, Manchester M13 9PL	




THE WHITWORTH ART GALLERY

	Daily - 10.00am – 5.00pm	One of the country's finest art collections in spectacular Victorian and contemporary surroundings. The gallery's £35 million transformation has enabled the collection to be presented to visitors in imaginative new ways. Highlights include outstanding pre-Raphaelite paintings, craft and design and early 20thC British art. Exciting exhibitions programme, there is a wide range of events, from talks and tours to hands-on activities for both children and adults. Superb visitor facilities include 2 cafés, large shop and full disabled access.
	FREE	
	5-10 minutes away	
	Oxford Road, Manchester M13 9PL	

MUSEUM OF SCIENCE AND INDUSTRY

	Daily - 10.00am – 5.00pm	The Museum of Science and Industry is devoted to inspiring visitors through ideas that change the world, from the Industrial Revolution to today and beyond. It's a story that the museum is uniquely placed to tell—on the site of the oldest surviving passenger railway station, in the heart of the world's first industrial city, today alive with innovative discoveries in science and technology.
	FREE	
	Liverpool Road, Manchester M3 4FP	





CENTRAL LIBRARY

	Daily - 10.00am – 7.30pm	This iconic city venue, designed by E. Vincent Harris, was first opened in 1934. Following a £50m refurbishment in 2010, taking four years, the Grade II listed building has been brought into the 21st century by combining historic features with cutting-edge design. Take a look at previously hidden heritage spaces and the magnificent Wolfson Reading Room. Central Library is incomparable to any other venue in the city.
	FREE	
	St. Peters Square, Manchester M2 5PD	

MANCHESTER ART GALLERY

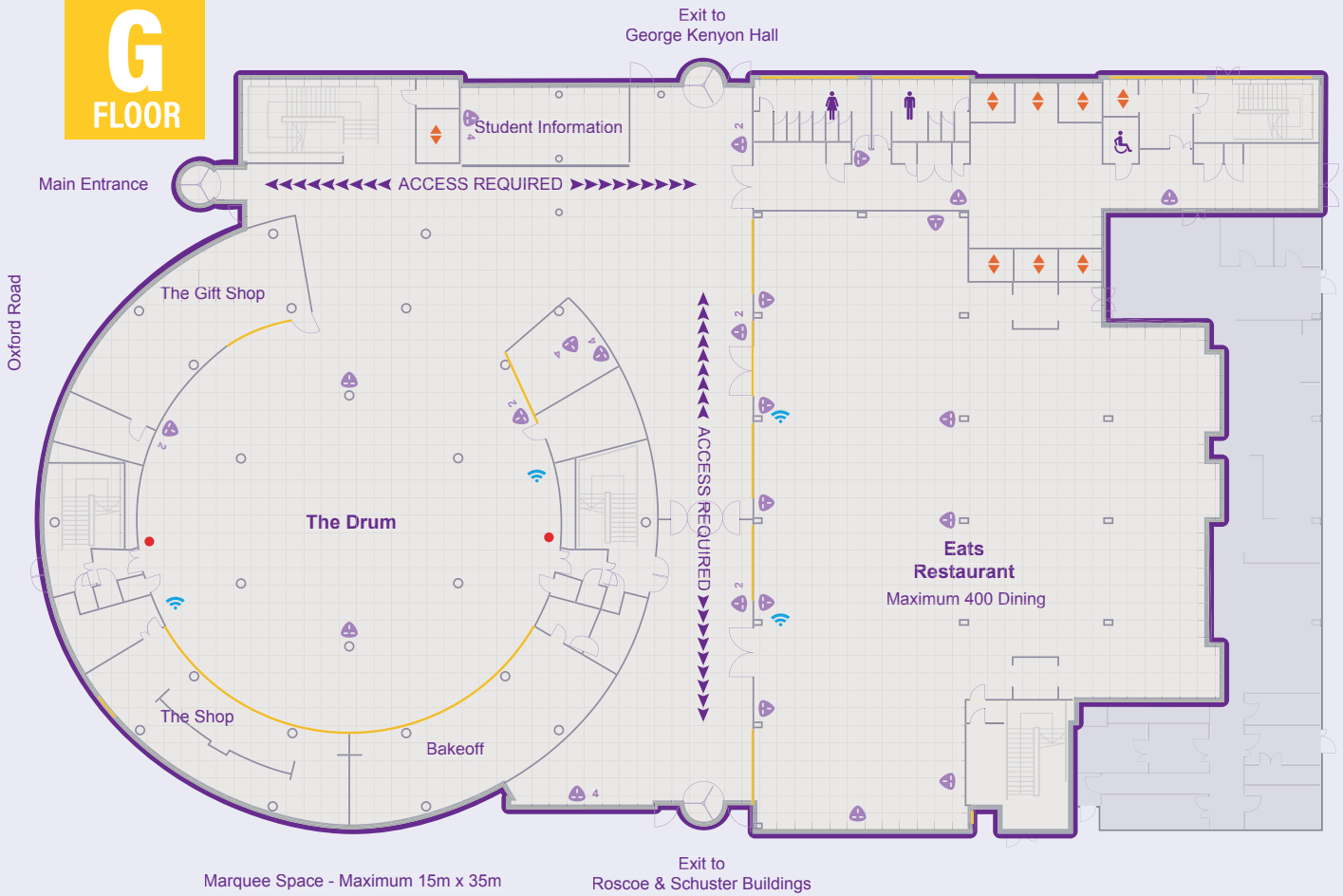
	Daily - 10.00am – 5.00pm	Manchester Art Gallery is one of the country's finest art museums. They mix works from their wonderful historic collections with the best international contemporary art to bring fresh perspectives to familiar images, create visual dialogues and encourage conversation and debate. They welcome over half a million visitors each year to their home in the heart of the city, a blend of historic and contemporary architecture that echoes their innovative artistic programme. Through their exhibitions and events, they offer extraordinary encounters with brilliant art. Explore the collections of fine art, spanning six centuries and including many major modern and contemporary pieces. They are famous for 19th century British paintings, particularly their outstanding collection of Pre-Raphaelite works. Their decorative arts collections showcase the artistry, tastes and techniques of every era and culture, from ancient civilisations to today's designer makers. Their collections of ceramics, silver, glass, furniture and costume are especially fine.
	FREE	
	Mosley Street, Manchester M2 3JL	

PRACTICAL INFORMATION

	Wifi Details - You will find this information on your conference badge		Also indicates the places noted above marked with this icon.
	The map below shows the walking route from the Conference venue (University Place) to Barca for the Conference Dinner.		#IST2018 @SCIManchester

CONFERENCE VENUE FLOOR PLANS







G FLOOR



1st FLOOR

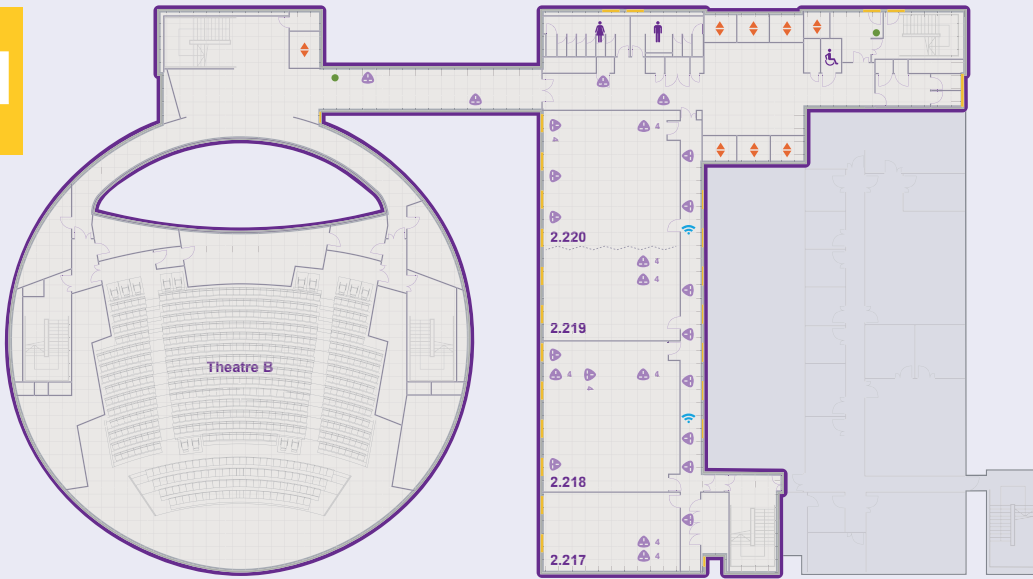


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-  Fire Call Point
-  Toilets
-  WiFi
-  Refuge Call Point

UNIVERSITY PLACE

2nd FLOOR



3rd FLOOR



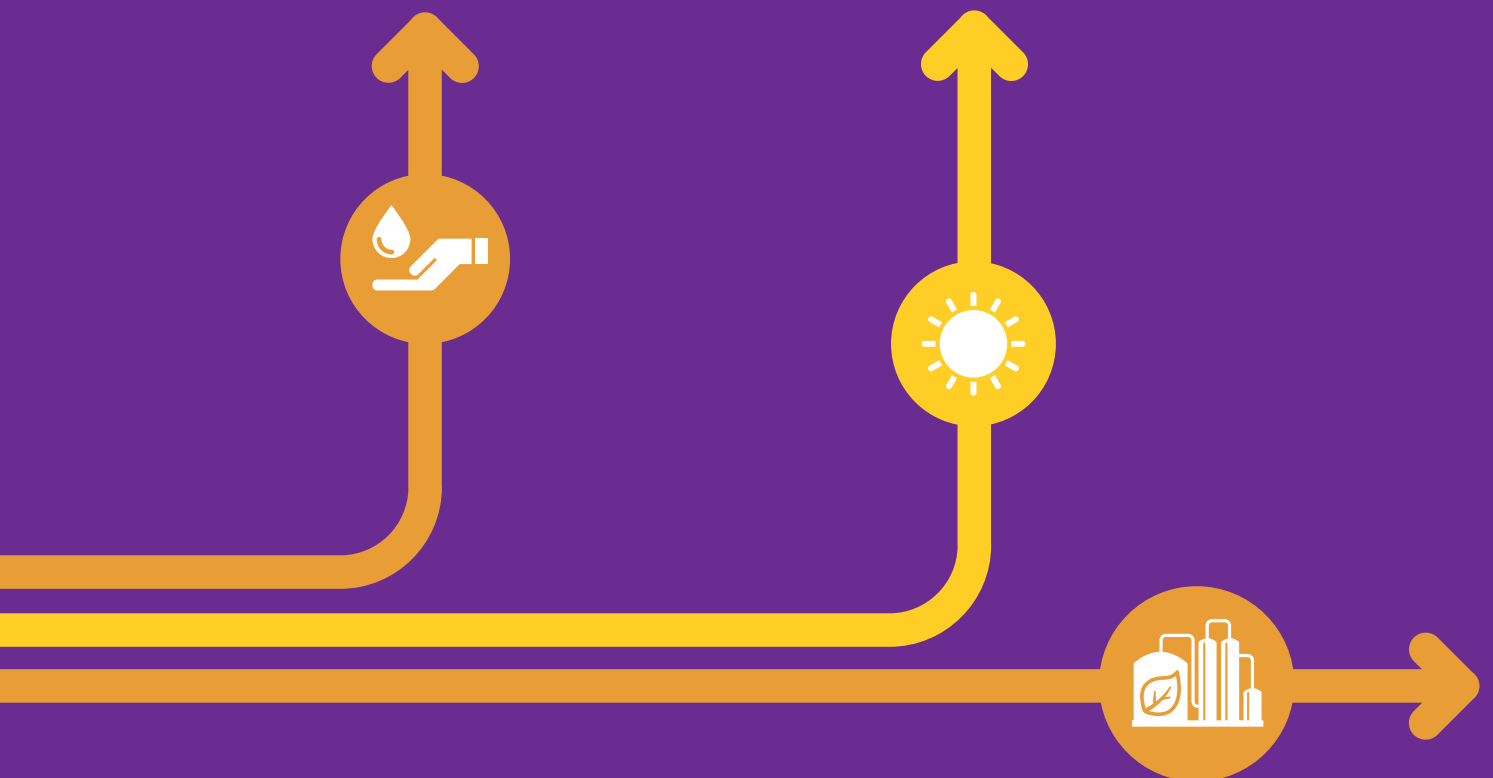
4th FLOOR



MANCHESTER
1824

The University of Manchester
Sustainable Consumption Institute

The University of Manchester,
Oxford Road, Manchester M13 9PL



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