

Eu-SPRI Winter School

Innovation policy for Transformative Change

Location: University of Sussex, Falmer, Brighton, United Kingdom

Date: 16-20 January 2017

Organisers: SPRU – Science Policy Research Unit, INGENIO and Eu-SPRI - European Forum for Studies of Policies for Research and Innovation

Organising Committee: Prof Johan Schot (course director), Prof Ed Steinmueller, Prof Andy Stirling, Dr Paula Kivimaa, Dr Ismael Rafols, Mr Jonas Torrens (coordinator), Ms Nora Blascok

Faculty: Prof Joanna Chataway, Ms Suzanne Fisher-Murray, Prof Pierre-Benoit Joly, Dr Erika Kraemer-Mbula, Dr Jordi Molas-Gallart, Ms Sarah Schepers, Prof Adrian Smith, Dr Puay Tang

Introduction

The European Forum for Studies of Policies for Research and Innovation, the Eu-SPRI Forum, is proud to announce it is piloting a new series of Winter and Summer schools. This series aims to provide state-of-the-art training in the study of science and innovation policy and supporting disciplines, catering for early career scholars and professionals at different stages of their careers. It concentrates on current research and debates, with emphasis on policy and pressing societal challenges. SPRU will host the first session of this series on the theme of Transformative Change.

The combined hues of environmental degradation, climate change, rising inequalities, democratic deficit, a protracted economic crisis, and the displacement of large populations by war and strife, paint a complex picture that is evocative of crisis and urgency. Governments, multilateral organisations, businesses and civil society have been engaged in composing new global agendas for facing these challenges, as it is evident in the Sustainable Development Goals and the Paris Climate Agreement, in the efforts of the International Panel on Climate Change, Future Earth and International Panel on Social Progress, as well as in many bottom-up grassroots and inclusive innovation activities.

These engagements, agendas and research programmes signal a need to reframe Science, Technology and Innovation policies,

around the overarching notion of ‘Transformative Change’, with changes in its objectives, scope of action, scales and pace. This emerging frame taps into ongoing debates in research, policy and practice, and places greater emphasis on systemic responses and renewed notions of social progress and democracy.

This winter school seeks to familiarise participants with state-of-the-art debates about the ‘transformative change’ frame of STI policy and its associated practices. Through seminars and discussions, the school participants will explore its conceptual underpinnings and its connections and departures from conventional STI policy. Sessions will also discuss concrete examples of efforts to promote such transformations. Three guiding questions will be addressed:

- How may contrasting understandings of transformative change be brought to bear on policy responses to pressing contemporary challenges?
- How to ensure such responses are inclusive and democratic?
- How to advance such responses through transdisciplinary approaches and alliances?

Course objectives

Participants of the course will become familiar with the state-of-the-art of the emerging Transformative Change frame, being able to:

- Critically examine the prevalent framings of science and technology policy, placing them in historical perspective
- Recognise and discuss the emerging policy practices which embody the Transformative Change framing
- Identify and critically assess methods and approaches with the potential to 'open-up' and democratise STI policies
- Consider the role of alternative science and technology indicators
- Reflect on the relevance of the Transformative Change frame to their current research and professional practice

Content and planning

The course has a duration of 5 days and combines lectures, panel discussions, interactive and training sessions. Each day of the school will be dedicated to a topic, combining lectures, case studies and group discussions.

Participants will receive training in research communication. As an assignment, they will work towards writing blogs that critically reflect on contemporary STI practice through the perspectives discussed in the course; the resulting work will be published in appropriate channels, with the intention of opening up a broader conversation.

Upon completion of the course and the assignment, participants receive a certificate.

Important dates

15 Jan 2017	Arrival in Brighton
16 Jan 2017	First day of the school
20 Jan 2017	Last day of the school

Special Public Event: Book Launch

On Tuesday Dr Erika Kraemer-Mbula will launch her newest book "The Informal Economy in Developing Nations: Hidden Engine of Innovation?" (2016, Cambridge University Press). The presentation will be followed by a panel discussion with Prof Raphie Kaplinsky (SPRU, IDS), Dr Puay Tang (SPRU) and Dr Gordon McGranahan (IDS and STEPS Centre) and chaired by Joanna Chataway (SPRU).

Frequently Asked Questions

How can I meet with members of the faculty?

If you would like to meet with the faculty of the Eu-SPRI winter school, there are several opportunities. During the school, you will see an availability sheet which tells students when the members are around. The members of the Organising Committee will be available most of the week. You can arrange one-to-one meetings in the breaks, lunch and on the designated Friday slot (subject to availability). Please make sure to arrange such meetings outside the hours reserved for the school activities.

How should I prepare for the school?

The faculty has compiled a list of recommended readings (see below). You are free to choose the readings which benefit you the most. There is one highlighted reading for each of the sessions. Participants are free to select with which readings to engage. By choosing 3-5 of the highlighted readings, you should get a good overview. The other readings recommended for those seeking to go deeper into the specific debates.

How to get to your hotel – Hotel IBIS Brighton

Participants will be hosted in Hotel IBIS Brighton for 5 nights (Check in: 15th January, Check out: 20th January). The hotel is conveniently located close to Brighton train station and the city centre of Brighton.

Hotel Ibis Brighton City Centre,

88-92 Queens Road, East Sussex,
Brighton BN1 3XE.

The hotel is located 2 minutes away from the train station, which has frequent trains to Falmer and to Gatwick Airport.

I arranged to arrive early. Is it possible to stay in the same hotel?

The check-in arranged by the school is on 15th January. If you arrive earlier, you should arrange the accommodation individually and pay separately.

My flight only leaves on the 21st. Where should I stay on the 20th?

The checkout of the hotel should happen on 20th January. You need to arrange accommodation for the extra night yourself and pay separately.

What is the social programme?

- Drinks reception: Monday 5.30 pm
Location: outside G22, Jubilee Building
- Farewell dinner: Thursday evening
Location: Olive Grove
Map: <http://www.olivegrove-brighton.co.uk/contact>

Please note that you will have to cover the cost of the other dinners during the Winter School yourself.

Where is the school taking place?

The school will take place in the Jubilee Building, where SPRU is based. Most lectures and activities will take place in G22 (Ground Floor). The Public Lecture will take place in Room 115 (First Floor).

There are frequent trains to Falmer from Brighton train station near the hotel. See the attached map for more information on how to access the campus.

Who to contact for more information?

Nora Blascok

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Programme

Date	Monday 16-Jan	Tuesday 17-Jan	Wednesday 18-Jan	Thursday 19-Jan	Friday 20-Jan
Theme	Contemporary perspectives on transformative change	Emerging policy practices	Inclusive & responsible innovation	Appraisal & evaluation	Progress, democracy and technocracy
8:30 - 9:00	Arrival and Registration				
9:00 - 10:15	Introductory session	Policy mixes for transformative change (Paula Kivimaa)	Inclusive Innovation (Joanna Chataway)	Generation & evaluation of research impact (Puay Tang & Jordi Molas-Gallart)	Culturing Transformations in Innovation Democracies (Andy Stirling)
10:15 - 11:30	Transformative change / Deep Transition (Johan Schot)	Participatory approaches, technology and democracy (Pierre Benoit-Joly)	Innovation, informal economy and transformative change (Erika Kraemer-Mbula)	Towards indicators for Opening STI Policy (Ismael Rafols)	Assignment Presentations
11:30 - 11:45	Coffee Break				
11:45 - 13:00	Innovation, Progress and Transformation (Andy Stirling)	Experimentation & Intermediation (Paula Kivimaa)	Fishbowl conversation: Innovation policy for transformative change	Analysis of contemporary policy process: SDG 9 and Lund Declaration (Johan Schot)	Assignment Presentations
13:00 - 14:00	Lunch				
14:00 - 15:15	Transformative STI Policy (Ed Steinmueller)	Grassroots Innovation movements (Adrian Smith)	Working on assignment	Working on assignment	Closing discussion (Chair: Ed Steinmueller)
15:15 - 15:30	Break				
15:30 - 17:15	Thinking about research communication, engagement and impact (Sarah Schepers & Suzanne Fisher-Murray)	Book Launch: The Informal Economy in Developing Nations Hidden Engine of Innovation? (Erika Kraemer-Mbula)	World-Café: The fault-lines of innovation policy for transformative change	Open-space: Topics suggested by students	One-to-one meetings with faculty (scheduled individually)
17:15 - 17:30	Debriefing		Debriefing	Debriefing	
Evening	Drinks Reception	Working on assignment	Free evening	Farewell dinner	

Reading list

Monday Sessions:

Transformative change and Deep Transitions

Schot, J. & Kanger, L., 2016. *Deep Transitions: Emergence, Acceleration, Stabilization and Directionality*, SPRU Working Paper Series no. 2016-15, pp.1-30. Available at www.sussex.ac.uk/spru/swps2016-15; and at www.johanschot.com

- “This paper develops a new theoretical framework aiming to explain the emergence, acceleration, stabilization and directionality of Deep Transitions. It does so through the synthesis of three strands of literature: individual socio-technical systems, interconnected systems and industrialization-related macro-trends.” (p.1)

Perez, C. 2013. Unleashing a golden age after the financial collapse: Drawing lessons from history. *Environmental Innovation and Societal Transitions* 6: 9-23.

Schot, J., and Rip, A. 2010. Inventing the Power of Modernization. In *Technology and the Making of the Netherlands: The Age of Contested Modernization, 1890-1970*, eds. J. Schot, H. Lintsen, A. Rip. Cambridge, MA: The MIT Press, 13-46.

WGBU (German Advisory Council on Global Change) 2011. *World in Transition: A Social Contract for Sustainability*. Available online:

http://www.wbgu.de/fileadmin/templates/dateien/veroeffentlichungen/hauptgutachten/jg2011/wbgu_jg2011_kurz_en.pdf.

Innovation, Progress and Transformation

Stirling, A., 2014. Towards Innovation Democracy: participation, responsibility and precaution in innovation governance. pp. 49–62. In: Annual Report of the Government Chief Scientific Adviser 2014, *Innovation: Managing Risk, Not Avoiding It. Evidence and Case Studies*, London: UK Government Office of Science.

- This chapter outlines for a sceptical policy audience, how real-world processes of innovation are actually very different from how they are typically portrayed in high-level discourses around “pro innovation policies”, and sets the scene for issues that will be addressed in more detail later in the week.

Kellner, D., 2001. Feenberg’s Questioning Technology. *Theory, Culture & Society*, 18(1), pp.155–162. Walker, G. &

Smith, A. et al., 2016. Making the most of community energies: Three perspectives on grassroots innovation. *Environment and Planning A*, 48(2), pp.407–432.

Bijker, W.E., Volonte, P. & Grasseni, C., 2015. Technoscientific Dialogues: expertise, democracy and technological cultures. *Technoscienza*, 1(2), pp.121–140.

Transformative Science, Technology and Innovation Policy

Schot, J. & Steinmueller, W.E., 2016. Framing Innovation Policy for Transformative Change : Innovation Policy 3.0., Working Paper, pp.1–26, Available at: <http://www.johanschot.com/publications/framing-innovation-policy/>

- This article examines three historical ‘framings’ of science and technology policy, indicating the features of a third frame that complements and extends two previous framings. This article is particularly useful for those seeking a quick introduction to conventional and newer approaches to thinking about science and technology policy at a broad (societal) scale

Veugelers, R., 2012. Which policy instruments to induce clean innovating? *Research Policy*, 41(10), pp.1770–1778.

Kuhlmann, S. & Rip, A., 2014. Research policy must rise to a grand challenge. *Research Europe*, (2013), pp.1–11.

Foray, D., Mowery, D.C. & Nelson, R.R., 2012. Public R&D and social challenges: What lessons from mission R&D programs? *Research Policy*, 41(10), pp.1697–1702.

Thinking about research communications and impact

Moriarty, P., 2016 "Confronting The Critics Of Public Engagement". *Times Higher Education (THE)*.
<https://www.timeshighereducation.com/blog/confronting-critics-public-engagement>

Dunleavy, P., 2014. Shorter, Better, Faster, Free: Blogging changes the nature of academic research, not just how it is communicated. *Writing for research, Medium*.

<https://medium.com/advice-and-help-in-authoring-a-phd-or-non-fiction/shorter-better-faster-free-fb74bddaec03#.bijjn3oqt>

A Journalist's Guide To Reporting Research Findings. 1st ed. London: Panos, 2011. Web.

<http://panosrelay.panosnetwork.org/wp-content/static/2011/08/A-journalists-guide-to-reporting-research-findings-July-2011.pdf>

Dunleavy, P., 2014. The impact of the social sciences : how academics and their research make a difference S. Bastow & J. Tinkler, eds. London: SAGE.

Tuesday Sessions

Policy Mixes for Transformative Change

Kivimaa, P. & Kern, F., 2016. Creative destruction or mere niche support? Innovation policy mixes for sustainability transitions. *Research Policy*, 45(1).

- This paper proposes “ideally policy mixes for transitions include elements of ‘creative destruction’, involving both policies aiming for the ‘creation’ of new and for ‘destabilising’ the old.” (p.1), and develop an analytical framework based on broadening the technological innovation system functions approach.

Rogge, K.S. & Reichardt, K., 2013. Policy mixes for sustainability transitions: An extended concept and framework for analysis. *Research Policy*, 45(8), pp.1620–1635.

Flanagan, K., Uyarra, E. & Laranja, M., 2011. Reconceptualising the “policy mix” for innovation. *Research Policy*, 40(5), pp.702–713.

Borrás, S. & Edquist, C., 2013. The choice of innovation policy instruments. *Technological Forecasting and Social Change*, 80(8), pp.1513–1522.

Participatory Approaches, Technology and Democracy

Joly, PB, Kaufmann, A. (2008) Lost in Translation? The Need for ‘Upstream Engagement’ with Nanotechnology on Trial. *Science as Culture*. Vol.17.No.3. pp.225-247.

Marris, C, Joly PB. (1999) Between consensus and citizens: public participation in technology assessment in France. *Science and Technology Studies* Vol.12. No.2.

Marris, C, Joly PB, Rip, A (2008) Interactive Technology Assessment in the Real World: Dual Dynamics in an iTA Exercise on Genetically Modified Vines. *Science, Technology & Human Values* Vol.33. No.1. pp.077-100.

Experiments and Intermediaries

Kivimaa, P. et al., 2015. *Experiments in Climate Governance – Lessons from a Systematic Review of Case Studies in Transition Research*. SPRU Working Paper Series no. 2015-36: 1-30. ISSN 2057-6668. Available at www.sussex.ac.uk/spru/swps2015-36.

Sengers, F., Wiczorek, A. & Raven, R.P.J.M., 2016. Experimenting for sustainability transitions: a systematic literature review. *Technological Forecasting Social Change*. In press.

Kivimaa, P., 2014. Government-affiliated intermediary organisations as actors in system-level transitions. *Research Policy*, 43(8), pp.1370–1380.

Grassroots Innovation Movements

Smith, B.A. et al., 2016. Introducing Grassroots Innovation Movements. In *Grassroots Innovation Movements*. London: Routledge.

Smith, A. & Stirling, A., 2016. *Grassroots Innovation & Democracy*, STEPS Working Paper no. 89, STEPS Centre, Brighton, pp.1-30. <http://steps-centre.org/wp-content/uploads/Grassroots-innovation-and-innovation-democracy.pdf>

Smith, A. et al., 2016. Making the most of community energies: Three perspectives on grassroots innovation. *Environment and Planning A*, 48(2), pp.407–432.

Fressoli, M. et al., 2014. When grassroots innovation movements encounter mainstream institutions: implications for models of inclusive innovation. *Innovation and Development*, 4(2), pp.277–292.

Wednesday sessions

Inclusive Innovation

Chataway, J., Hanlin, R. & Kaplinsky, R., 2013. *Inclusive Innovation: an architecture for policy development*, IKS working paper series no. 65, Open University, pp.1-20.

- This paper argues a reorientation towards inclusive innovation, which “needs to be understood and developed in the context of a holistic conception of the innovation cycle, the distinction between process and product innovation and the roles played by the poor as both producers and consumer. It further charts the growing interest of private sector actors in inclusive innovation (including, but not confined to TNCs seeking the “fortune at the bottom of the pyramid”) and large global funds working in tandem with the private sector and governments.” (p.1)

Kaplinsky, R., 2011. Schumacher meets schumpeter: Appropriate technology below the radar. *Research Policy*, 40(2), pp.193–203.

Simanis, E., 2012. Reality Check at the Bottom of the Pyramid. *Harvard Business Review*, (June), p.6.

Innovation, informal economy and transformative change

Kraemer-Mbula, E. & Konte, A., 2016. Innovation Policy and the Informal Economy”. In Kraemer-Mbula, E. and Wunsch-Vincent, S. eds. *The Informal Economy in Developing Nations: Hidden Engine of Innovation?*. Cambridge: Cambridge University Press, UK.

- This chapter explores the possibility of expanding the boundaries of mainstream innovation policies by discussing a range of policy interventions that could support innovation activities in the informal economy in Africa.

De Beer, J., Fu, K. & Wunsch-Vincent, S., 2013. *The Informal Economy, Innovation and Intellectual Property: Concepts, Metrics and Policy Considerations*. Geneva: Economic Research Working Paper no. 10, World Intellectual Property Organization.

Arocena, R., & Sutz, J. 2012. Research and innovation policies for social inclusion: an opportunity for developing countries. *Innovation and Development*, 2(1), 147-158.

Thursday Sessions

Generation and evaluation of research impact

Douthwaite, B., Alvarez, S., Cook, S., Davies, R., George, J. Hovell, R. Mackay and J. Rubiano 2007. Participatory Impact Pathway Analysis: A practical application of program theory in Research-for-Development. *The Canadian Journal of Program Evaluation* 22(2): 127-159.

- An example of a participative approach to the generation and evaluation of research impact. Although this is one, among many approaches to evaluation, it is highly relevant for policy contexts aiming to enact transformative policy agendas.

Majone, G., 1989. Evaluation and Accountability. In: *Evidence, Argument, & Persuasion in the Policy Process*. New Haven and London: Yale University Press, pp. 167-183.

Towards indicators for Opening STI Policy

Rafols, I. et al., 2012. Towards indicators for opening up S&T policy. *STI Indicators Conference*, pp.1–7.

- In this short paper, the authors develop Stirling's notion of "opening up" for STI indicators. They argue that conventional use of indicators is aimed at facilitating decision-making by simplifying the issue of relevance (e.g. "excellence") to a single dimension, thus closing down the debate. The paper propose that quantitative evidence of STI can also be designed to illuminate disparate ways to examine a phenomenon, thus highlighting plural dimensions and facilitating deliberation over alternative options.

Hicks, D. et al., 2015. The Leiden Manifesto for research metrics. *Nature*, 520(Abril), pp.429–431.

Barré, R., 2010. Towards socially robust S&T indicators: indicators as debatable devices, enabling collective learning. *Research Evaluation*, 19(3), pp.227–231.

Stirling, A.C., 2010. Keep it complex. *Nature*, 468(7327), pp.1029–31.

Friday Session:

Culturing Transformations in Innovation Democracies

Stirling, A., 2014. Emancipating Transformations: from the controlling "the transition" to culturing plural radical progress, STEPS Working Paper 64. Brighton: STEPS Centre.

- This expansion of a chapter for a recent STEPS Centre book on Green Transformations explores what it argues to be the neglected role of democratic struggle in the politics transformation – critiquing tendencies to authoritarianism in some environmental agendas and highlighting the importance of culture change.

Fraser, N., 2013. A Triple Movement? *New Left Review*, 81(May/June), pp.119–132.

Scoones, I., Leach, M. & Newell, P., 2015. Introduction. In: Scoones, I., Leach, M. & Newell, P. eds., *The Politics of Green Transformations*, London: Earthscan Routledge. pp1-24

STEPS, 2010. Innovation, Sustainability, Development: a new manifesto, Brighton: STEPS Centre.

Faculty bios

Organising Committee



[Paula Kivimaa](#) is a Senior Research Fellow at the Science Policy Research Unit (SPRU), University of Sussex since 2015. She also holds a 20% appointment as a Senior Researcher in the Finnish Environment Institute SYKE, where she has worked since 2003. Dr Kivimaa obtained a PhD in Organisations and Management from Helsinki School of Economics in 2008 and the title of Docent in Sustainability Management from Aalto University in 2012. Her research includes the analysis of innovation, energy and climate policies from the perspective of transformative change towards sustainability and the analysis of eco-innovation processes to discover their drivers, the influence of public policies on these processes, as well as the role of innovation intermediaries. Most recently, she has worked actively on three themes: policy mixes for transformative change, innovation intermediaries in transitions, and socio-technical experiments. Dr Kivimaa is experienced in engaging with policy-oriented audiences, including invited talks at the OECD, the Finnish Ministry of the Environment, and the Finnish Ministry of Transport and Communications, and has contributed to parliamentary consultations in Finland and the UK.
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[Ismael Rafols](#) is a science policy analyst at Ingenio (CSIC-UPV, Universitat Politècnica de València) and an adjunct faculty at SPRU, where he worked from 2005 until 2012. Ismael explores how to make a more plural use of S&T indicators for informing evaluation, funding and research strategies. His research focuses on two main topics. *Inclusive metrics*, in which he is trying to correct for indicator biases and their effects on policies in relation to issues such as local knowledge. And *research portfolios*, in which he is developing methods to interrogate the research landscapes or portfolios, in order to facilitate deliberation on research prioritization for grand challenges such as bird flu or obesity. Ismael received a PhD in biophysics from Tohoku University (Sendai, Japan) and was a postdoctoral researcher in nanobiotechnology at Cornell University.
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EU-SPRI 2017 Winter School Director

[Johan Schot](#) is the Director of SPRU. His research combines insights from History of Technology, Innovation Policy, and Science and Technology Studies. He made major contributions in each of these fields. He is one of the pioneers on Sustainability Transitions, having helped to develop Strategic Niche Management and the Multi-Level Perspective (MLP) theory. His current focus is on Innovation Policy for Transformative Change and the examination of the second global Deep Transition. His efforts have contributed to establishing the Transformative Innovation Policy Consortium. He has led and coordinated several large-scale research programmes and the formation of numerous doctoral researchers.
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[Ed Steinmueller](#) received his PhD from Stanford University in Economics in 1987. He has experience in policy consulting in areas of antitrust (competition policy), innovation and science policy while working at Stanford (1985-1994), MERIT (Maastricht)(1994-1997) and SPRU (1997-present). His principal research is in the industrial economics of information and communication technologies. Steinmueller has supervised and examined PhD work on natural resource based industries, recycling, sustainable energy, and nuclear power. His roles have included convening SPRU's PhD programme, editing Research Policy, teaching in MSc and PhD programmes and consulting with policymakers and industry.
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[Andy Stirling](#) is a Professor in SPRU and co-director of the STEPS Centre at Sussex University. He is an interdisciplinary researcher with a background in natural and social science. Focusing on challenges in the politics of science, technology and innovation, his research addresses themes like: uncertainty, sustainability, resilience, diversity, transformation and participation. He has served on many EU and UK advisory bodies on issues of energy, environment, emerging technologies, science policy and public engagement.
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EU-SPRI 2017 Winter School Coordinator

[Jonas Torrens](#) is a third-year PhD candidate in SPRU, where he is also a teaching and research assistant. In his research, he is primarily interested in the development of Urban Transformative Capacity. Before joining SPRU, he worked at the Stockholm Resilience Centre supporting the Planetary Boundaries Research Initiative. In his work, he seeks to combine research activities with efforts to connect and disseminate its findings. In that latter role, his experience includes convening a multi-stakeholder science-business dialogue, coordinating the design of a massive online open course, co-founding the PhDs in Transitions network, and coordinating the Eu-SPRI Winter School.
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Faculty



[Joanna Chataway](#) is Professor of Science and Technology Policy at SPRU, University of Sussex. She was previously Director of the Innovation, Health and Science group at RAND Europe (<http://www.rand.org/randeurope.html>) and Professor of Biotechnology and Development at the Open University. Joanna has extensive research and consultancy experience that includes work on science & technology capacity building, North-South Public Private Partnerships (PPPs), innovation and development. She is also the Vice President of the Globelics network (<http://www.globelics.org>) and a member of the UK BBSRC Bioscience for Society Strategy Committee.
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[Suzanne Fisher-Murray](#) has worked as a journalist, editor and writer for over 16 years. In that time she's produced radio features and documentaries for the BBC World Service and has set up and managed educational radio drama series in Burkina Faso and Rwanda. She has helped non-governmental and research organisations share their research and demonstrate impact, written and edited policy reports and led website redesigns and edited hundreds of blogs and website pages. Suzanne works to support the research impact and communications work of the Centre and Innovation and Energy Demand and the STEPS Centre, both part of the University of Sussex's Social Policy Research Unit. She has a Masters in Environment and Development (distinction) from the School of Oriental and African Studies, University of London.

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[Pierre-Benoit Joly](#), economist and sociologist, is Director of Research at the National Institute of Agronomic Research (INRA) in France. He holds a degree in agronomy (1982), a PhD in economics (1987) and the "Habilitation à diriger les recherches" (1995). He is the Director of the IFRIS (French Institute for Studies of Research and Innovation in Society) and of Labex (Laboratory of Excellence) SITES. Since 1996, his research activities are focused on the governance of collective risks, socio-technical controversies, the use of scientific advice in public decision making and the forms of public participation in scientific activities. He was Member of the expert group "Science and Governance" at the European Commission, he is Member of the Council of European Association for the Study of Science and Technology (EASST) and of the French Comité de Prévention et de Précaution and he chairs the Scientific Council of the Programme on GMOs at the French Ministry for Ecology. He lectures at Ecole des Hautes Etudes en Sciences Sociales (EHESS) and at Sciences Po Paris.

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[Erika Kraemer-Mbula](#) is a Senior Lecturer & Research Fellow at the Institute for Economic Research at Tshwane University of Technology (South Africa). Erika's research interests are on Science and Technology Policy analysis, innovation systems, sustainable development and various routes to the expansion of creative competencies in Africa, including public policy, learning and international cooperation in Science, Technology and Innovation. Initially trained as an Economist, Erika holds a Masters in Science and Technology Policy by SPRU (with distinction) from the Science and Policy Research Unit (University of Sussex, UK), and a doctorate in Development Studies from the University of Oxford. In her academic and professional career, Erika has adopted a cross-disciplinary approach to explore alternative development paths for African countries. She has been a researcher at Centre for Research in Innovation Management (CENTRIM) in Brighton, and the Science Policy Research Unit (SPRU) at the University of Sussex, UK – between 2001 and 2011.

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[Jordi Molas-Gallart](#) is Research Professor at INGENIO (CSIC-UPV), and Visiting Fellow at SPRU where he obtained his PhD and worked for some 15 years as a researcher and Senior Lecturer. His research interests include science and technology policy evaluation and impact assessment, and university-industry relations. He has led and contributed to many research assignments for a variety of funders and clients including the UK Economic and Social Research Council, the European Commission, the European Parliament, INSERM, CSIC, the Russell Group of Universities, the French and UK ministries of defence, and several Spanish regional governments among others. He has been a member of several European Commission expert groups, including the group on “Foresight on Key long-term Transformations of European systems: Research, Innovation and Higher Education”. He is President of the European Network of Indicator Designers (ENID), Chair of the Science Europe Working Group on Research Policy and Programme Evaluation and Spanish National Expert in the H2020 Programme Committee for Societal Challenge 6 (‘Europe in a changing world – Inclusive, Innovative and Reflective Societies’).

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[Sarah Schepers](#) is SPRU’s Head of Strategy where she leads on external partnerships, communications, engagement and impact. She also leads the SRC Impact Accelerator Grant ‘Policy@Sussex’ which aims to help build capacity in policy communications and research impact and promote policy relevant social science research at Sussex University. Prior to her current role she managed the £3.5m research centre ‘The Centre on Innovation and Energy Demand’ based in SPRU. She has a wide ranging experience of social science communications and engagement having previously managed communications for the Centre for Low Carbon Futures, Climate Strategies and prior to this 10 years in senior marketing and communications roles in the corporate sector. She has an MBA from Henley Business School and a BA in English Literature and Media Studies from the University of Sussex.

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[Adrian Smith](#) is Professor of Technology and Society in SPRU. His research considers the politics and governance of innovation for sustainability, drawing upon theories and methodologies from political science, innovation studies, and science and technology studies. It involves empirical studies in both developed and developing country contexts, covering local through national to international scales in a variety of sectors. His current focus is on grassroots digital fabrication, and which falls under a broader body of work on grassroots innovation for sustainability. Adrian is also involved in a new European project studying the knowledge politics involved in smart urbanism. It compares how grassroots groups are appropriating ‘smart’ techniques and tools for knowing and acting in their city with corporate and public authority development of similar tools. Adrian has also made significant contributions to the understanding of transformations of the major sociotechnical systems and transitions to sustainability; and in critical policy analysis for sustainability.

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[Puay Tang](#) is a political scientist with a Ph.D in International Relations from the Johns Hopkins University, Washington D.C. As Senior Lecturer and Director of Teaching at SPRU, her research focuses on evaluation and impact assessment of science and technology programmes/initiatives, and university-industry relations (academic entrepreneurship) including how universities commercialize and exploit their research outputs and knowledge. Puay has worked on many evaluation/impact assessment studies for the ESRC and produced reports on academic entrepreneurship for HEFCE and the UK Intellectual Property Office. Puay teaches the management of Intellectual Property Rights and innovation. She also supervises Master and doctoral students.

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