

**TRANSFORMATIVE  
INNOVATION  
POLICY  
CONSORTIUM**

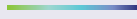
# INNOVATION FOR TRANSFORMATION CONFERENCE



3-4 OCTOBER 2018  
CONFERENCE PROGRAMME

Organised by the Science Policy Research Unit, University of Sussex,  
on behalf of the Transformative Innovation Policy Consortium

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# WELCOME TO THE TIPC CONFERENCE: INNOVATION FOR TRANSFORMATION 2018

As the second year since the inception of the Consortium comes to a close, I am delighted to welcome a great cross-section of delegates to our TIPC conference.

This event is our second conference, and sees multiple new members and associates joining us. In our first year of the five year core programme, country-specific work is beginning to take place and we are moving from transformative theory to transformative action.

We are still early on in our journey, but this year has seen concrete steps towards fresh policy thinking in Science, Technology and Innovation (STI). Looking back at our inaugural conference last year, it is impressive to think of the coalition we have built since then. During this conference, you will hear from TIPC members and associates, international organisations and academics about their transformative thinking and action, some of which are global milestones. There is still, however, so much more that needs to be done.

Our vision is an essential one. We know building new knowledge, and the associated narratives and frameworks, is complex. We know it is even more complex to create demonstrators and actual impact. Yet, we know too that our current systems of provision for our basic needs are not fit for the task ahead as, for example, expressed in the Sustainable Development Goals. As explained in the latest TIPC research brief, meeting these goals needs transformation. But how do we achieve that? For this we need to experiment, research, evaluate, disseminate, write and communicate about new STI practice that supports developing the world sustainably. Together, during this conference we will debate, formulate and co-create to add new layers of knowledge to our emerging theory and practice of Transformative Innovation Policy. I hope that you have an engaging and enriching 2018 conference.



**Professor Johan Schot,**

Director, Science Policy Research Unit, University of Sussex  
Professor of History of Technology and Sustainability Transitions



# WEDNESDAY 3 OCTOBER 2018

16:30 – 17:00 Registration and coffee

17:00 – 18.30

WELCOME ADDRESS

**Steve McGuire**, Dean of the University of Sussex Business School

KEYNOTE ADDRESS

**Addressing the Sustainable Development Goals through Transformative Innovation Policy**

**Sylvia Schwaag-Serger**, Deputy Vice-Chancellor, Lund University, Sweden

TRANSFORMATIVE INNOVATION POLICY ONE YEAR ON

**Johan Schot**, Director, SPRU, University of Sussex

OUTLINE OF PROGRAMME FOR THE NEXT DAY

18:30 – 20.00 Drinks reception and networking

ALL WEDNESDAY SESSIONS TAKE PLACE IN THE TERRACE ROOM

# THURSDAY 4 OCTOBER 2018

8:30 – 09:00 Arrival and coffee

09:00 – 10:00

KEYNOTE ADDRESS

TERRACE ROOM

**Changing how we think about change? Reflections on transformative innovation in Africa**

**Erika Kraemer Mbula**, Associate Professor in Economics University of Johannesburg

10:00 – 11:00

PARALLEL SESSION 1A:

ROOM 1&2

**Transformative Innovation Policy In China**

PARALLEL SESSION 1B:

TERRACE ROOM

**Experimental Cultures**

PARALLEL SESSION 1C:

GALLERY ROOM 2

**Towards a STI public policy agenda as a transformational agent in Mexico: the case of sustainable fishery in the Southeast region**

PARALLEL SESSION 1D:

ROOM 3&4

**Research design and method for Transformative Innovation – Global South Focus**



## PROGRAMME OVERVIEW

**11:00 – 11:25** Coffee and tea

**11:30 – 12:30**

PARALLEL SESSION 2A:

GALLERY ROOM 2

**New directions for Innovation Policy in Latin America and emerging opportunities for transformative change**

PARALLEL SESSION 2B:

ROOM 2&3

**Transformative Innovation Policy in Africa: aspirations, progress, and challenges**

PARALLEL SESSION 2C:

ROOM 1&2

**Transformative Innovation Policy: European and National Perspectives**

PARALLEL SESSION 2D:

TERRACE ROOM

**Learning from Policy Experimentation in Cities**

**12:30 – 13:30** Lunch

GALLERY ROOM 1

**13:30 – 14:30**

PARALLEL SESSION 3A:

TERRACE ROOM

**Reflecting on the experiences of national STI agencies in leading the development of Transformative Innovation Policies: The case of Colombia (Green Book) and Sweden (Challenge Driven Innovation)**

PARALLEL SESSION 3B:

ROOM 1&2

**Re-visiting Science, Technology and Innovation: Country Reviews from a Transformative Change Perspective**

PARALLEL SESSION 3C:

GALLERY ROOM 2

**Evaluation for Transformative Innovation Policy**

**14:30 – 15:30**

PARALLEL SESSION 4A:

ROOM 1&2

**Training and Capacity Building to support Transformative Innovation**

PARALLEL SESSION 4B:

ROOM 3&4

**Research design and method for Transformative Innovation – Global North Focus**

PARALLEL SESSION 4C:

GALLERY ROOM 2

**The importance of place-based and regional policy agendas in Transformative Innovation**

**15:30 – 16:00** Coffee and tea

**16:00 – 17:30**

CLOSING PANEL

TERRACE ROOM

**19:00 – 23:00** Conference Dinner at Brighton Palace Pier



Sign-up for the TIPC Newsletter at [tipconsortium.net](https://tipconsortium.net)

# WEDNESDAY 3 OCTOBER 2018

## WELCOME ADDRESS

**Steve McGuire**, Dean of the University of Sussex Business School

## KEYNOTE ADDRESS: DRIVING TRANSFORMATIVE CHANGE - CHALLENGES FOR POLICYMAKING

### Abstract

The Nordic countries are often hailed as innovative and resilient economies and societies, with well-functioning public sectors and high living standards. However, similar to many other countries, they currently face a number of systemic challenges or 'wicked problems' that are putting strains on their public sectors, welfare systems and – some would argue – even the foundations of their social democracies. Prof Schwaag-Serger will give a brief overview of innovation policies in the Nordic countries and key issues they are currently struggling with. In particular she will discuss the link between Agenda 2030 and a transformative innovation policy. Based on 20 years' experience in designing and analysing innovation policy in the Nordic countries, she will draw conclusions on some significant – but not insurmountable – challenges of driving transformative change for policymaking.



**Sylvia Schwaag Serger**, Deputy Vice-Chancellor, Lund University, Sweden

Sylvia Schwaag Serger is Deputy Vice Chancellor at Lund University. Prior to this, she was Executive Director for International Strategy at the Swedish Government Agency for Innovation (VINNOVA).

## TRANSFORMATIVE INNOVATION POLICY ONE YEAR ON

**Johan Schot**, SPRU, University of Sussex



# THURSDAY 4 OCTOBER 2018

**KEYNOTE ADDRESS:**  
**CHANGING HOW WE THINK ABOUT CHANGE? REFLECTIONS ON  
TRANSFORMATIVE INNOVATION IN AFRICA**

**Abstract**

In a rapidly moving and interrelated environment, the challenge of transformation calls for fundamental changes in the way we organise our social, economic and governance systems. Transformation requires innovation – new approaches, new instruments and new capabilities appear to be central to this process. This presentation discusses the concept of transformative innovation and some policy implications in the context of emerging economies, with a focus on African countries. It will look at shifts that are starting to take place, which may provide new opportunities, such as developments in manufacturing modalities as well as the transformative potential of the informal economy.



**Erika Kraemer Mbula**, University of Johannesburg

Erika Kraemer Mbula is Associate Professor in Economics at the University of Johannesburg where she coordinates a Community of Practice in “Innovation and Inclusive Industrialisation”. She specialises in Science, Technology and Innovation Policy analysis and innovation systems in connection to equitable and sustainable development.



1A

**PARALLEL SESSION 1A:  
TRANSFORMATIVE INNOVATION POLICY  
IN CHINA**

**Abstract**

With three decades of rapid economic growth, China now faces both environmental and social challenges. In recent years, air pollution, water shortages and other environmental crises have become both government and social concerns. Simultaneously, China is suffering from social issues, income inequality, food safety, and high housing prices. In the 19th Congress report issued in 2017, the Government articulated the urgency to build an ecological civilization and the importance to balance economic growth and sustainable development. China has entered a new stage to transform its current economic and social system, of which Transformative Innovation Policy is playing a pivotal role to solve its social and environment issues.

Recent years have witnessed progress towards green development and poverty alleviations. Ambitions have been made by the central government to mitigate climate change. Its fast development of green industry and the domestic deployment of renewable energy has astonished the world, for example by using solar PV to alleviate poverty. This session has two main aims: 1) to learn from the experience of using innovation to solve the social and environmental challenges in China; 2) to explore the potential futures and opportunities of stimulating transformation innovation policies to solve further challenges in China.

**Panellists**

**Adrian Ely**, (Chair), Senior Lecturer, SPRU

**Guangxi He**, Deputy Director & senior researcher at the Institute of Science & Technology and Society at CASTED (Chinese Academy of Science and Technology for Development)

**Dongmei Liu**, Vice President of CASTED (Chinese Academy of Science and Technology for Development)

**Kejia Yang**, PHD student, SPRU

**Jialing Lu**, Visiting Research Fellow, SPRU

1B

**PARALLEL SESSION 1B:  
EXPERIMENTAL CULTURES**

**Abstract**

That experimentation constitutes an important means to pursue transformations towards sustainability is now well established. Around the globe, countries and cities are doing their best to establish an 'experimental culture', 'prototyping culture', 'experimental governance' and so forth. These terms, often painted in broad strokes, convey the idea that to induce transformations it is paramount that the practices, attitudes and means of governing should become experimental. They affirm that embedding particular innovations generated through ad hoc experimentation does not suffice.

This session aims to foster a nuanced discussion about the diverse experimental cultures which are emerging in different contexts. This will help us reflect on the approaches most suitable for Transformative Innovation Policy, and highlight the political dimension of such efforts. For that, we bring together practitioners and scholars involved in concrete attempts to embed such cultures in both governmental and grassroots settings, in Latin America, Finland and the UK.

**Panellists**

**Paula Kivimaa**, (Chair), Senior Research Fellow, SPRU

**Lucy Kimbell**, Professor of Contemporary Design Practices and Director of Innovation Insights Hub, University of the Arts, London

**Annuka Berg**, Senior Researcher at the Finnish Environment Institute

**Adrian Smith**, Professor of Technology & Society, SPRU





1C

**PARALLEL SESSION 1C:**  
TOWARDS A STI PUBLIC POLICY AGENDA  
AS A TRANSFORMATIONAL AGENT IN  
MEXICO: THE CASE OF SUSTAINABLE  
FISHERY IN THE SOUTHEAST REGION

**Abstract**

This session is an opportunity to discuss the strengths and weakness of different STI policy tools for nurturing, protecting and supporting technology niches with potential for transformative change. It uses the results of a Transformative Innovation Learning History (TILH) on fishery sustainability in Mexico.

The Southeast region in Mexico is extremely diverse and rich in natural and human resources, but it is also facing huge challenges related to the Sustainable Development Goals (SDGs): life below water, responsible consumption and production, industry, innovation and infrastructure, decent work and economic growth, among others. Session participants will discuss the transformative change potential of emerging socio-technical niches in the food sector and their relation to specific SDGs. At the same time, the case study demonstrates the concepts of Frame 3 in TIPC theory, as well as bringing deep understanding of the importance of niches and the way public policy can protect and support them in order to allow transformative opportunities. The case study preliminary results identified a very active contribution of the academic and scientific community in the development of niches with high potential for socio-technical transformation. Therefore, the next steps will try to understand how these niches are being developed, which socio-technical systems they are affecting, and to identify those public policy initiatives that can protect and support them in the short, medium and long term.

**Panellists**

**Teresa de León Zamora**, (Chair), Director of Technology Commercialisation in CONACYT, the National Science and Technology Council in Mexico

**Julio Alcántar**, Planning Director at CIDETEQ, an R&D Public Center; and part time postgraduate lecturer at Queretaro University in the PhD Technology Management and Innovation Program

**Emilio Martínez de Velasco Aguirre**, Regional Director, National Council for Science and Technology, Mexico (CONACYT)

**Carmen Bueno**, Professor and Researcher at the Graduate Program on Social Anthropology, Iberoamericana University, México City. Consultant to the National Forum of Science and Technology on new approaches to innovation

1D

**PARALLEL SESSION 1D:**  
RESEARCH DESIGN AND METHOD  
FOR TRANSFORMATIVE INNOVATION -  
GLOBAL SOUTH FOCUS

**Abstract**

TIPC is a collaboration between science, technology and innovation policymakers and the scholarly community with partners from the global North and South. It is premised on the belief that current social challenges, e.g. social and environmental sustainability, require new approaches and insights. Many of these approaches and insights are expected to emerge from experimentation and evaluation in partner countries since TIPC can be seen as an extensive programme of action research. The collaboration of scholars in the Consortium, however, raises questions of how to structure and present this experience in ways that are suitable for journal or other scholarly publication. The session on Research Design and Method for Transformative Innovation is therefore aimed at highlighting the opportunities and identifying the barriers to designing and implementing research projects in experimental and action-oriented global south contexts. Although TIPC has its own programmatic particularities and evolving history, this session seeks to share experience from related research on transition and transformation.

**Panellists**

**Ed Steinmueller**, (Chair), Professor of Information & Communication Technology Policy, SPRU

**Erika Kraemer Mbula**, Associate Professor in Economics, at the University of Johannesburg

**Bipashyee Ghosh**, PHD student, SPRU

**Rob Bryne**, Lecturer, SPRU



2A

**PARALLEL SESSION 2A:  
NEW DIRECTIONS FOR INNOVATION  
POLICY IN LATIN AMERICA AND  
EMERGING OPPORTUNITIES FOR  
TRANSFORMATIVE CHANGE**

**Abstract**

Some Latin American countries seem to witness increasing relevance of inclusiveness and environmental sustainability as main objectives (alongside competitiveness) for their Science, Technology and Innovation (STI) policy, through a vision for addressing great challenges with a long-term perspective. This trend potentially links with the increasing relevance of Sustainable Development Goals (SDGs) as great challenges for National STI policy. Besides, new relevant actors are emerging within the National Innovation Systems in a bottom-up fashion, along with the opening up of new spaces and practices for inclusion and collaboration between sectors, including civil society and indigenous communities.

Starting from this backdrop, the session explores the emerging opportunities for transformative innovation and sustainable transitions of socio-technical systems in Latin America, and the rationale for their emergence. Then, we discuss the implications of such new trends and emerging opportunities for the future direction of innovation policy in the region. The focus is not on the historical evolution of STI policy in each participating country, but on the ongoing and potential transformation of socio-technical systems. In conclusion, we expect to bring together the experience of different Latin American countries in a round table-format debate around some key questions such as the following:

- What are the main trends and opportunities for transformative change emerging in each country?
- What can we learn from the emerging trends and opportunities, in order to direct the next generation of STI policy toward sustainable transitions of socio-technical systems?

**Panellists**

**Sandro Giachi**, (Chair), Research Fellow, SPRU

**Alejandro Olaya Davila**, Former Director of COLCIENCIAS – National Agency of Science, Technology and Innovation of Colombia. Currently Chris Freeman visiting fellow at SPRU

**Ana Lúcia Stival**, Senior Analyst of science and technology, Brazilian Ministry of Science, Technology, Innovation and Communication (MCTIC), Visiting Researcher SPRU

**Carlos Aguirre Bastos**, is specialist in science, technology and innovation and higher education policy in developing countries, Senior Policy Adviser at the National Secretariat for Science of Panama

**Teresa de León Zamora**, Director of Technology Commercialisation in CONACYT, the National Science and Technology Council in Mexico



2B

## PARALLEL SESSION 2B: TRANSFORMATIVE INNOVATION POLICY IN AFRICA: ASPIRATIONS, PROGRESS AND CHALLENGES

### Abstract

The African Union Agenda 2063, The Africa We Want, among other objectives, aspires to “a prosperous Africa based on inclusive growth and sustainable development” (AUC, 2014a, p2). In order to achieve the seven aspirations articulated in Agenda 2063, various continental policies and policy frameworks have been laid out by the Africa Union Commission, one of which is the ten-year Science, Technology and Innovation Strategy for Africa 2024 (STISA-2024) (AUC, 2014b). The Mission of STISA-2024 is to “accelerate Africa’s transition to an innovation-led, knowledge-based economy” (AUC, 2014b, p.11). At country levels, Science, Technology and Innovation (STI) policies in Africa, for example, South Africa’s draft White Paper on STI, emphasises inclusion, as a core transformation goal.

STISA-2024 demonstrates that progress is being made in the formulation of STI policies in Africa. Alongside STISA-2024, the majority of African countries now have Science and Technology (S&T) or STI policies. In addition, initiatives aimed at strengthening STI policymaker skills are being set up at national and continental levels, for example, the Science Granting Councils Initiative (SGCI). Despite this progress, the challenges currently experienced in relation to the implementation, evaluation, and governance of STI policies such as STISA-2024 highlight the importance of rethinking policymaking in Africa. The ideas embedded in Transformative Innovation Policy (TIP) offer a way to address these and other policy challenges related, for example, to capabilities, funding, and indicators.

In this session, the panel will attempt to provide answers to questions that include:

- In what ways can TIP ideas and approaches to policymaking help in articulating STI policy responses to the development challenges in Africa?
- What roles for major ecosystem actors – government, research funders, academia, industry, civil society, and development partners?
- In what ways can existing policy initiatives, such as the SGCI, be aligned with TIP or strengthened to further support progress in STI policymaking in Africa?

### References

AUC (African Union Commission), 2014a. Agenda 2063. <https://archive.au.int/assets/images/agenda2063.pdf>

AUC, 2014b. Science, Technology and Innovation Strategy for Africa 2024 (STISA-2024). [https://au.int/sites/default/files/newsevents/workingdocuments/33178-wd-stisa-english\\_-\\_final.pdf](https://au.int/sites/default/files/newsevents/workingdocuments/33178-wd-stisa-english_-_final.pdf)

### Panellists

**Chux Daniels**, (Chair), Research Fellow in Science, Technology and Innovation at SPRU

**Matthew Wallace**, Senior Program Officer at International Development Research Centre (IDRC), in Ottawa

**Imraan Patel**, Deputy Director-General Department of Science and Technology, South Africa

**Ann Kingiri**, Senior research fellow in STI with a focus on inclusive and sustainable development at African Centre for Technology Studies (ACTS)

**Mafini Dosso**, Economist and Policy Analyst at the European Commission’s Joint Research Centre (JRC) in Seville, Spain



2C

**PARALLEL SESSION 2C:  
TRANSFORMATIVE INNOVATION  
POLICY: EUROPEAN AND NATIONAL  
PERSPECTIVES**

**Abstract**

This sessions looks into the future potential of transformative innovation policy in Europe. Some European countries with a strong innovation performance, (including TIPC members) have already started to embrace a transformative approach to innovation policy, experimenting with new approaches and instruments and engaging in transnational initiatives. More recently, the European Commission has presented its proposal for EU Horizon Europe, the next European framework programme for research and innovation. It contains several new elements, such as the mission-oriented approach but also the European Innovation Council. Both, if appropriately designed, have the potential to be turned into truly transformation-oriented instruments. The contributors to this session are closely involved in preparations for making these new developments a reality and provide an assessment of their potential, but also of the caveats on the way towards making them happen.

**Panellists**

**Matthias Weber**, (Chair), Head of Unit Research, Technology and Innovation Policy, Austrian Institute of Technology, Austria

**Elisabeth Gulbrandsen**, Special Adviser Research Council of Norway

**Christopher Palmberg**, Programme Manager Business Finland

2D

**PARALLEL SESSION 2D:  
LEARNING FROM POLICY  
EXPERIMENTATION IN CITIES**

**Abstract**

Local government and other stakeholders are increasingly embracing experimentation in their efforts for governing urban transformations. By drawing a parallel between urban transformations and Transformative Innovation Policy, this session aims to reflect on the processes, tools and attitudes which may be useful for experimentation for TIP. The panel will present and reflect on the lessons from Transitions Management, Open Innovation Platform and a sustainable mobility living lab to highlight the challenges associated with the design and conduct of experiments.

**Panellists**

**Jonas Torrens**, (Chair), Research Fellow & PHD student, SPRU

**Paola Pollmeier**, Open Innovation Coordinator at the RutaN (the science, technology and innovation centre of the Municipality of Medellín, Colombia)

**Maria Schnurr**, Senior Researcher at Research Institutes of Sweden (RISE)

**Niki Franzeskaki**, Associate Professor on Sustainability Transitions' Governance at DRIFT, Faculty of Social Sciences at Erasmus University Rotterdam



# NOTES



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3A

**PARALLEL SESSION 3A:  
REFLECTING ON THE EXPERIENCES OF  
NATIONAL STI AGENCIES IN LEADING THE  
DEVELOPMENT OF TRANSFORMATIVE  
INNOVATION POLICIES: THE CASE OF  
COLOMBIA (GREEN BOOK) AND SWEDEN  
(CHALLENGE-DRIVEN INNOVATION)**

**Abstract**

In this session we reflect on the critical role played by national science and technology agencies in encouraging and enacting processes of transformative innovation in their national economies. Unlike previous historical examples of disruptive changes in socio-technical systems, transformative innovation poses the need to construct new directions in STI that address specific societal challenges that improve human welfare. This means that, particularly in its early stages, the process of transformative innovation has to be “constructed” by agents of the system including actors from civil society, the private sector and universities. However, it is national STI agencies that are likely to be seen as the legitimate leaders of the transformation process, which will be challenged to go well-beyond narrow funding roles and to adopt new narratives, coordinate new networks and use a range of policy instruments that can encourage transformations. In this session we will initially draw on the experiences of leaders of two STI agencies that have led comprehensive initiatives of transformative innovation policy: VINNOVA of Sweden who designed the Grand Challenges programme and Colciencias of Colombia that recently produced the ‘Libro Verde’ policy document on how the Colombian STI system can help meet the Sustainable Development Goals through transformative innovation.

Some of the issues that can emerge in the discussion include the following:

- Turning the system around: How important was it to develop a transformative innovation (TI) narrative or did this already exist? Did this narrative fit with what actors are doing or want to do?
- Programmes, plans and roadmaps: What might be the first steps for agencies to encourage TI? Lay out roadmaps? Specific calls with conditions?

- Policy skills for TI: Does TI imply a change in how the agency engages and interacts with practitioners? For example from top-down to bottom-up? Assumptions around risk taking?
- In what circumstances might certain top-down initiatives (for example mission-led) be fruitful for encouraging transformative innovation or should the agency limit itself to facilitating bottom-up initiatives?
- What are the main challenges for your agencies in enacting TI?

**Panellists**

**Matias Ramirez**, (Chair), Senior Lecturer, SPRU

**Alejandro Olaya Davila**, Economist, PhD, former Director of Colciencias, Colombia, currently Chris Freeman Visiting Researcher, SPRU

**Göran Marklund**, Deputy Director General, external, matters and head of Operational Development, VINNOVA, Sweden



3B

**PARALLEL SESSION 3B:  
RE-VISITING SCIENCE, TECHNOLOGY AND  
INNOVATION: COUNTRY REVIEWS FROM A  
TRANSFORMATIVE CHANGE PERSPECTIVE**

**Abstract**

This session discusses how to broaden National Science, Technology and Innovation Policy Reviews to integrate Sustainable Development Goals (SDGs). Current frameworks, such as the UNCTAD STIP Review framework are mostly based on the National Innovation Systems framework (Frame 2). In this frame, economic development is understood as essentially involving a process of productive capacity building and structural transformation in which technological upgrading and innovation play an integral part. These current frameworks remain inadequate and insufficient to comprehensively address the SDGs, which are broad in scope and ambitious in nature. A central question for the session is whether, and how, introducing the notion of transformative change may help the UNCTAD STIP Review framework, and other frameworks, such as the ones used by the OECD to deal with the SDGs (or environmental and social challenges).

**Panellists**

**Blanche Ting**, (Chair), PhD student, SPRU

**Johan Schot**, Director, SPRU

**Michael Lim**, Economist, STI Policy Division on Technology & Logistics, UNCTAD

**John L. Chongo**, Chief Science and Technology Officer, Department of Science and Technology, Ministry of Higher Education, Zambia

**Imraan Patel**, Deputy Director-General Department of Science and Technology, South Africa

3C

**PARALLEL SESSION 3C:  
EVALUATION FOR TRANSFORMATIVE  
INNOVATION POLICY**

**Abstract**

The aim of this session is to discuss the development of a framework and a strategy to guide the evaluation of Transformative Innovation Policies (TIPs) and, specifically, policy experiments for transformative change. A panel debate, with participation from the audience, after a series of short presentations will cover:

1. Specific challenges that TIPs pose to evaluation: coherence with the key assumptions of the TIP approach, definition of 'experiment', operationalization and adaptation to different policy contexts, etc.
2. Avenues for developing a TIP evaluation strategy: a framework and a proposal based on a multi-level 'nested' approach, a generic theory of change, and a set of key evaluative dimensions
3. A discussion on the feasibility of the proposed strategy based on the ongoing work and co-production of knowledge with stakeholders in TIPC partnering countries

An open discussion will follow these short presentations.

**Panellists**

**Joanna Chataway**, (Chair), Deputy Director of SPRU and Professor of Science and Technology Policy

**Jordi Molas Gallart**, Research Professor at the Spanish National Research Council (CSIC), and Director of INGENIO (CSIC-UPV)

**Alejandra Boni Aristizabal**, Professor at the Dpt. of Projects Engineering at the U. Politécnica de Valencia. Deputy Director of Ingenio (CSIC-UPV)

**Daniel Johansson**, Head of Analysis, VINNOVA, Sweden



4A

**PARALLEL SESSION 4A:**  
TRAINING AND CAPACITY BUILDING TO  
SUPPORT TRANSFORMATIVE INNOVATION

**Abstract**

TIPC members are co-creating a Training and Capacity Building Programme on Transformative Innovation, aimed at mid career and senior level Science, Technology and Innovation policymakers and researchers. It has an ambitious aim to change mindsets through deep learning, creating opportunities for the development and embedding of the TIP approach in national and regional policymaking and analysis.

Underpinned by academic theory, the programme will draw on combination of innovation and transition theories, introducing ideas such as strategic niche and transition management, expectation management and directionality. This session identifies participatory methods and explores the challenges we might face when translating such theory into practice based training to be applied in a range of different contexts. It is organized as a discussion between the panellists who have experience and insights on transformative innovation. We also hope to learn from the experience of the audience who are invited to join in this discussion.

**Panellists**

**Sarah Schepers**, (Chair), Programme Director, Transformative Innovation Policy Consortium

**Cristian Matti**, Transitions Hub lead at EIT Climate-KIC and Research fellow at Copernicus Institute for Sustainable Development, Utrecht University

**Ann Kingiri**, Senior research fellow in STI with a focus on inclusive and sustainable development at African Centre for Technology Studies (ACTS)

**Geert Wilms**, Director of Agricultural Innovation Brabant (LIB), a partnership of the Province of North-Brabant and the farmers organization ZLTO

4B

**PARALLEL SESSION 4B:**  
RESEARCH DESIGN AND METHOD  
FOR TRANSFORMATIVE INNOVATION -  
GLOBAL NORTH FOCUS

**Abstract**

TIPC is a collaboration between science, technology and innovation policymakers and the scholarly community with partners from the global North and South. It is premised on the belief that current social challenges, e.g. social and environmental sustainability, require new approaches and insights. Many of these approaches and insights are expected to emerge from experimentation and evaluation in partner countries since TIPC can be seen as an extensive programme of action research. The collaboration of scholars in the Consortium, however, raises questions of how to structure and present this experience in ways that are suitable for journal or other scholarly publication. This session is therefore aimed at highlighting the opportunities and identifying the barriers to designing and implementing research projects in experimental and action-oriented global North contexts. Although TIPC has its own programmatic particularities and evolving history, this session seeks to share experience from related research on transition and transformation.

**Panellists**

**Stefan Kuhlmann**, (Chair), Chair of the Department of Science, Technology, and Policy Studies (STePS), University of Twente

**Lea Fuenfschilling**, Researcher, CIRCLE, Lund University

**Adrian Smith**, Professor of Technology & Society, SPRU

**Matthias Weber**, Head of Unit Research, Technology and Innovation Policy, Austrian Institute of Technology





4C

### PARALLEL SESSION 4C: THE IMPORTANCE OF PLACE-BASED AND REGIONAL POLICY AGENDAS IN TRANSFORMATIVE INNOVATION

#### Abstract

Although analysis of socio technical transitions has been strongly influenced by resistances and dynamics to transformations over time (for example path dependence, routines), there is increasing policy interest in addressing the role of the “place” in industrial transitions. Whether expressed in local communities, cities, industrial clusters or regions, analysis of place-based transitions draws attention to the fact that transitions are processes that are inherently grounded in territorial spaces and constructed in specific socio-spatial systems. From the perspective of Transformative Innovation Policy, the implications of a spatial analysis of transitions and policy development are at least two-fold. The first is that places can be milieus in which co-located actors are embedded in local networks that develop new agendas, narratives and transformative alternatives. Specific places can capture the idiosyncratic process in the generation of local knowledge and sources of sometimes radical diversity.

Moreover, important interactions between the science, technology and innovation system and civil society can fuel alternative narratives of innovation. Transition management techniques, such as transition arenas, aim to support these local initiatives. However, a second implication of place-based spatial analysis can be deep regional unevenness that can lead to profound tensions that dislocate transformation processes. This is likely to be particularly evident in economies where market-led institutions of technological dissemination and technological transfer are weak. This session will further discuss the implications of place-based analysis for transformative innovation including regional policy. The panellists will broach the above questions in diverse ways. Through a case-study of the city of Bristol in the UK, Jonas Torrens will discuss how challenge-led agendas emerge and how they are translated/interpreted in places and the role of experimentation. Claudia Obando will address the issue of using regional policy to influence directionality of STI agendas in mineral extractive regions of Colombia.

#### Panellists

**Matias Ramirez**, (Chair), Senior Lecturer, SPRU

**Tatiana Rodríguez Maldonado**, CENSAT Ague Viva, Colombia

**Eduarne Magro**, Orkestra – Basque Institute of Competitiveness

**Jonas Torrens**, PhD student and SPRU Research Fellow, SPRU

**Claudia Obando**, PhD student and SPRU Research Fellow, SPRU



# BIOGRAPHIES OF PANELLISTS

## KEYNOTE SPEAKER:

### **Professor Sylvia Schwaag Serger,**

Deputy Vice-Chancellor, Lund University, Sweden  
Professor Sylvia Schwaag Serger is Deputy Vice Chancellor at Lund University. Prior to this, she was Executive Director for International Strategy at the Swedish Government Agency for Innovation (VINNOVA). She has run an independent think tank on the knowledge economy, worked as Swedish Science Counsellor in Beijing (2005 and 2007) and as an analyst for the Swedish Ministry of Trade and Industry. During 2015/2016 she was senior advisor at the Swedish Prime Minister's Office for Strategic Development. In 2016, the Swedish government appointed her to coordinate the government's efforts to mitigate the effects of Ericsson's cutbacks in Sweden. She currently advises the Swedish government on how to cooperate with China in research, innovation and higher education.

At European level, she has chaired an expert group on international research and innovation cooperation for DG Research. She has also served as member of an expert group tasked with evaluating the European Innovation Partnerships and is currently member of the Expert Group on the Economic and Societal Impact of Research and Innovation (ESIR). She was one of the external experts in the OECD's innovation reviews of Finland and Norway 2016/2017 and is currently evaluating Denmark's Innovation Fund.

Schwaag Serger is member of the Austrian Council for Research and Technological Development, chairperson of the Swedish Foundation for Internationalization of Higher Education and Research (STINT) and member of the International Advisory Board of the Norwegian Research Council. She has served on the board of the University of Uppsala and on the Swedish Government Expert Commission on Research. From 2013-2016 she was Guest Professor at the Chinese Academy of Sciences Institute for Policy Management (CASIPM).

**Professor Johan Schot,** Director of SPRU and Director of the Transformative Innovation Policy Consortium  
Professor Johan Schot is Director at the internationally renowned Science Policy Research Unit (SPRU) at the University of Sussex. As a Professor in History of Technology and Sustainability Transitions Studies, Schot's interests orientate around action-driven research that focuses on integrating disciplines and providing the historical perspective for increased knowledge to support positive societal change. He is the author of many influential publications including *Transitions Towards Sustainable Development. New Directions In The Study Of Long Term Transformative Change* (Grin, Rotmans & Schot) and *Writing The Rules For Europe: Experts, Cartels And International Organisations* (Schot & Kaiser). For more info see [www.johanschot.com](http://www.johanschot.com) and follow on Twitter [@Johan\\_Schot](https://twitter.com/Johan_Schot)

## KEYNOTE SPEAKER:

### **Professor Erika Kraemer Mbula,** Associate Professor in Economics, University of Johannesburg

Erika is Associate Professor in Economics, at the University of Johannesburg where she coordinates a Community of Practice in "Innovation and Inclusive Industrialisation". She specialises in Science, Technology and Innovation Policy analysis and innovation systems in connection to equitable and sustainable development.

Initially trained as an Economist, she holds a Masters in Science and Technology Policy by the Science and Policy Research Unit (University of Sussex), and a doctorate in Development Studies from the University of Oxford. She has held various positions at the Centre for Research in Innovation Management (CENTRIM) and the Science and Policy Research Unit (SPRU), in the UK; as well as at the Institute for Economic Research on Innovation (IERI) at Tshwane University of Technology, in South Africa. Currently she is also a researcher at the DST-NRF Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP). She is also a Research Associate at the Centre for Law, Technology and Society (CLTS), University of Ottawa; and at the Institute for Economic Research on Innovation (IERI), Tshwane University of Technology, Pretoria.



Kraemer-Mbula is an active member of several international research networks, including Globelics (Global Network for Economics of Learning, Innovation, and Competence Building Systems), Africalics (Globelics' African network), PASET (Partnership for Applied Science Engineering and Technology) and the Open African Innovation Research (Open AIR) Partnership, among others.

## PARALLEL SESSION 1A: TRANSFORMATIVE INNOVATION POLICY IN CHINA

### Chair:

**Dr. Adrian Ely** is Senior Lecturer at SPRU. His work investigates the role of science, technology and innovation in sustainable development, in particular within the energy and agri-food sectors. This is combined with a specific interest in emerging biotechnologies and the role of technology assessment and foresight in their governance. Adrian has been at Sussex since 2000, when he started in the School of Life Sciences as a postgraduate student. His PhD thesis examined the comparative regulation of transgenic crops which led to research fellowships within the European Commission FP6-funded integrated project "Safe Foods" which focussed on European food safety governance and subsequently within the STEPS Centre. Since 2006, Adrian has been a member and recently the deputy director of the ESRC STEPS Centre, for which he leads on engagement with SDGs' processes. He currently acts as co-convenor of the 'Pathways to Sustainability' network, collaborating with 8 partners across Europe, Africa, Asia and the Americas.

### Panellists:

**Guangxi He** is the deputy director and senior researcher at the Institute of Science, Technology and Society of CASTED. He has been involved in several projects providing advice both for central and local government. His research interests focus on: Science and technology policy; Science, Technology and Society; Management of scientific research organizations and personnel; Science communication; Evaluation of public projects.

**Dr. Dongmei Liu** is the vice president of CASTED (Chinese Academy of Science and Technology for Development). She is a senior adviser to the central government, specifically focusing on the rural science and technology policy, regional science and technology policy, and the role of state and public investment. She is also the adviser for international organizations such as UNDP (United Nations Development Programme) and World Bank. Professor Liu got her PhD at Renmin University of China.

**Kejia Yang** is a doctoral researcher at SPRU. Her research interests are sustainability transitions, innovation policy, and renewable energy development. Her study focuses on solar and wind power development in China. Previously, she worked as a research assistant at Institutes of Science and Development, Chinese Academy of Sciences.  
[www.sussex.ac.uk/profiles/362080](http://www.sussex.ac.uk/profiles/362080)

**Jialing Lu** is Visiting Research Fellow at SPRU and Assistant Professor at the Chinese Academy of Sciences.

## PARALLEL SESSION 1.B: EXPERIMENTAL CULTURES

### Chair:

**Dr. Paula Kivimaa** is Senior Research Fellow at SPRU working for the Centre on Innovation and Energy Demand (CIED). Her previous research ranges from climate, energy and environmental policy analysis from the perspective of innovation to examining change and stability in energy and transport systems. Her current research interests include policy analysis from low-carbon innovation and transition perspectives as well as policy complementing approaches to support low-carbon innovation, such as intermediation and experiments. She has a BSc in Environmental Science & Business Management (University of Westminster, 1997-2000), an MSc in Environmental Technology (Imperial College, 2001-2002) and a PhD in Organisations and Management (Helsinki School of Economics, 2004-2008).

### Panellists:

**Lucy Kimbell** is an experienced designer, educator and researcher with expertise in design thinking and service design. She directs the Innovation Insights Hub at the University of the Arts London, and is Professor of Contemporary Design Practices at that University. She is also an Associate Fellow at Saïd Business School, and an Associate with Normann Partners. Lucy worked as a Research Fellow at the UK Cabinet Office Policy Lab, and has written and experimented extensively on the practices of design in the public sector. This includes her Service Innovation Handbook (2015), targeted at managers and entrepreneurs designing new services.



**Dr. Annuka Berg** is a Senior Researcher at the Finnish Environment Institute working on experimental governance, policy evaluation and analysis of consumption and innovation processes, in the context of sustainability transitions. She has extensive experience as a change agent and research, having acted as journalist, project coordinator and political assistant. Her work includes a passage in the Prime Minister's office in Finland.

**Adrian Smith** is Professor of Technology & Society at Science Policy Research Unit. Over the last ten years he has led a series of international research projects looking at prototypes and innovations for sustainability developed by citizens and grassroots organisations operating in civil society settings. His contribution to the session will draw some lessons from his research, and articulated most recently in this blogpost: <https://steps-centre.org/blog/forking-sdgs-prototypes-transform-new-global-goals/> and in a book authored with co-investigators called Grassroots Innovation Movements ([www.routledge.com/Grassroots-Innovation-Movements/Smith-Fressoli-Abrol-Arond-Ely/p/book/9781138901223](http://www.routledge.com/Grassroots-Innovation-Movements/Smith-Fressoli-Abrol-Arond-Ely/p/book/9781138901223)). Vital lessons relate to the ability of institutions to learn, open up, and hand power over to grassroots innovators.

### PARALLEL SESSION 1C: TOWARDS A STI PUBLIC POLICY AGENDA AS A TRANSFORMATIONAL AGENT IN MEXICO: THE CASE OF SUSTAINABLE FISHERY IN THE SOUTHEAST REGION

#### Chair:

**Teresa de León Zamora** is Director of Technology Commercialisation in CONACYT, the National Science and Technology Council in Mexico. Her job is the interaction with different governmental ministries and agencies, as well as with the academic, scientific and private sectors in Mexico and internationally, to design public policy to support innovation in Mexico. Teresa has a Masters degree (MSTC) in Science and Technology Commercialization from the Advanced Materials CONACYT Research Center in Mexico (CIMAV), jointly with the IC2 from the University of Texas in Austin, and an MBA from the Universidad de las Américas Puebla.

She is the Coordinator for Mexico in the "Transformative Innovation Policy Consortium" directed by the University of Sussex via SPRU (Science and Policy Research Unit) in which research and experimentation is being held regarding public policy design for transformative innovation. Among other

recent recognitions, she is Vice-president for ADIAT, a non-profit Association that works as a think tank developing contents and initiatives about technology and innovation, and a member of the Board of Advisors of Biosphere 2, an environmental research infrastructure at the University of Arizona, USA.

#### Panelists:

**Julio Alcántar** has held top management positions in several R&D Organisations and worked as senior business consultant in technology innovation management and intelligence for several years. He has directed consultancy projects for leading technology companies in the ICT sector in Latin American countries and USA, such as Microsoft, IBM and Telmex, and for government agencies like the Federal Telecommunication Commission in Mexico. He has advised several S&T Councils in Mexico on innovation and technology clusters development. He has postgraduate studies in Strategy and Innovation at the Massachusetts Institute of Technology (MIT) of the Sloan Management School. He finished his research PhD thesis as a visiting researcher at the Institute for Innovation and Technology Management in Toronto, Canada and was awarded a PhD in Industrial Engineering from Anahuac University, Mexico; an MSc in Technology Innovation Management from SPRU at the University of Sussex. His research is in the area of strategic decision making in technology innovation. Julio is an active participant and speaker in national and international forums and associations (YTA in Canada, SCIP in USA, ALTEC in the Latin America region and ADIAT in Mexico). Author of a dozen articles in topics related with innovation and technology development. He has been a postgraduate lecturer in Information Systems at Iberoamericana University in Mexico. Currently, he is the planning director at CIDETEQ, an R&D Public Center; and part time postgraduate lecturer at Queretaro University in the PhD Technology Management and Innovation Program.

**Emilio Martínez de Velasco Aguirre** is Regional Director at Mexico's National Council for Science and Technology (CONACYT). He is responsible for promoting CONACYT's programs in 5 states of the southeast region of Mexico: Yucatán, Campeche, Quintana Roo, Chiapas, and Tabasco. He is also responsible for leading the operation, together with local governments in those 5 states, of CONACYT's "Mixed Funds Programme" (or FOMIX, by its Spanish acronym). FOMIX is an instrument aimed at addressing state's most pressing social and economic problems, needs, and opportunities through science, technology, and innovation projects.



He has a doctoral degree in City and Regional Planning from the University of California at Berkeley, with a specialisation in regional economic development and innovation theories. His work as a researcher has explored the relationship between regional systems of innovation and global flows of knowledge, technology, and capital. His doctoral research investigates the emergence of what he called “Global Innovation Bridges,” a new policy instrument implemented by various local and national governments to connect their entrepreneurs with the most dynamic regions of innovation around the world, like Silicon Valley, California. After completing his doctoral studies, and before returning to Mexico to work at CONACYT, he had the opportunity to work directly at a “Global Innovation Bridge,” as Director of the Silicon Valley office for the Basque Country, Spain.

**Carmen Bueno** has a Master’s degree in Social Anthropology from Syracuse University, New York and a Doctorate degree from Universidad Iberoamericana. Currently Professor and Researcher at the Graduate Program on Social Anthropology, Iberoamericana University, México City. Member of the National System of Researchers, Level III; Member of the Mexican National Academy of Sciences. Topics of interest: Anthropology of organizations and labour from a global perspective. Consultant to the National Forum of Science and Technology on new approaches to innovation.

Recent publications in Spanish and in English:  
Configuraciones productivas en la globalización: trayectorias a la mexicana, México: UIA/CIESAS (2016). “Organizational and institutional re-structuring in the world of social science: seeds of change” in collaboration with Hebe Vessuri in “The global social science world – under and beyond ‘Western’ universalism”, Michael Kuhn and Hebe Vessuri ed., Stuttgart: Editorial Verlag Ibidem (2016). Moldes y troqueles en el centro de México, México: UIA/UAM-I (2017). “Innovación abierta con contenido social. Dilemas y retos dela co-creación en red”, Revista Sociología del Trabajo, Madrid, SIGLO XXI, primavera (2017). “Innovación abierta: de consumidores a productores de valor” Revista Desacatos, México, CIESAS (2018). “World-Systems Theory” Encyclopedia of Social Anthropology, New Jersey: John Wiley & Sons (2018).

**Stefan Kuhlmann** is Professor of Science, Technology and Society and Chair of the Department of Science, Technology, and Policy Studies (STePS) at the University of Twente. For more than 35 years Stefan Kuhlmann has been involved in studies of research and technological innovation as social and political processes – with changing entrance points and perspectives. Since the late 1980s he has analysed science, research and innovation systems and public policies, focusing on the dynamics of governance. Until 2006 he held leading positions at the Fraunhofer Institute for Systems and Innovation Research (ISI), Karlsruhe/Germany, and was Professor of Innovation Policy Analysis at the Copernicus Institute, University of Utrecht, The Netherlands. He is an Editor of Research Policy and incoming (as from 2018) Academic Director of the Netherlands Graduate School of Science, Technology and Modern Culture, WTMC.

#### PARALLEL SESSION 1D: RESEARCH DESIGN AND METHOD FOR TRANSFORMATIVE INNOVATION POLICY – GLOBAL SOUTH

##### Chair:

**Professor Ed Steinmueller** has been Professorial fellow at SPRU since 1997. He began his studies in the areas of computer science, mathematics, economics, and Chinese language and history at the University of Oregon and Stanford University. At Stanford (1974-1994), he was engaged in teaching, research, consulting while being a Deputy Director of what is now the Stanford Institute for Economic Policy Research. He was selected for a chair at MERIT at the University of Maastricht, The Netherlands where he developed a Doctoral training school prior to SPRU. Steinmueller has published widely in the field of the industrial economics of information and communication technology industries including integrated circuits, computers, telecommunications, software and the economic, social policy issues of the Information Society. He has also contributed to research in science policy and the economics of basic research.

##### Panellists:

**Erika Kraemer Mbula** (See entry above)

**Bipashyee Ghosh** is a final year doctoral researcher in Science and Technology Policy at SPRU- Science Policy Research Unit, University of Sussex, Brighton, UK, working with Prof. Johan Schot and Dr Saurabh Arora. Her PhD thesis is on urban mobility transformations in Asian megacities, particularly in India and Thailand. Using theories of sustainability experimentation, various



pathways of sustainability transition and socio-technical imaginaries for urban transformation, her work explores the ongoing changes in urban mobility and discourses around the smart city in relation to social inequality and climate change. She has completed her masters in Innovation Sciences from Eindhoven University of Technology (TU/e), Netherlands. She was part of NWO-WOTRO project on sustainability experiments in India and Thailand. She has an undergraduate degree in Economics from Jadavpur University (India). She also served as a social activist - raising awareness of climate change issues in India, working as an International climate champion with British Council.

**Rob Bryne** is Lecturer and Research Fellow at the Science Policy Research Unit. He has previously worked as Coordinator of the Orkonerei Solar Energy Project in Tanzania and was one of the founding members of Tanzania Solar Energy Association (TASEA), now the Tanzania Renewable Energy Association (TAREA). His research interests are in energy and climate policy in East Africa.

## PARALLEL SESSION 2A: NEW DIRECTIONS FOR INNOVATION POLICY IN LATIN AMERICA AND EMERGING OPPORTUNITIES FOR TRANSFORMATIVE CHANGE

### Chair:

**Sandro Giachi** holds a PhD in Sociology, University of Malaga (2012-2016), MSc. in Methodology of Social Sciences (2008-2010) and BSc. in Statistics (2004-2008), the University of Florence. Sandro's current research focuses on Latin American research and innovation policies, and their potential for transformative change across different levels of governance. His previous research spanned across several topics, ranging from the sociology of innovation to the institutionalization of science-industry relations.

He is also a member of the Research Committee on Knowledge, Science and Technology (CI-23) of the Spanish Federation of Sociology (FES), as well as a member of the Executive Committee of the Southern European Society Research Network (RN27) of the European Sociological Association (ESA). He has been a pre-doctoral research fellow at the Spanish National Research Council (CSIC), a visiting researcher at the University of Wollongong (Australia) and the North Carolina State University (USA), and a freelance data analyst and consultant.

### Panellists:

**Alejandro Olaya Davila** is the Former Director of COLCIENCIAS – National Agency of Science, Technology and Innovation of Colombia. Alejandro has more than 15 years of experience in science, technology and innovation policy and management, most of them in senior managerial positions in large private and public organizations. In them, he has been responsible for designing and implementing a wide spectrum of policies, programs and projects at national and regional level. He held executive positions at COLCIENCIAS (General Director, Deputy Director), the regional Government of Antioquia (Director of Science, Technology and Innovation) and the UPB University. He holds a PhD in Economics and Business Administration by the Universidad San Pablo CEU (Spain), in the following research area: Economics and Management of Science, Technology and Innovation. Currently, he is Chris Freeman visiting fellow at SPRU (Science Policy Research Unit).

**Ana Lúcia Stival** is a Senior Analyst of Science and Technology with more than ten years of professional experience at the Brazilian Ministry of Science, Technology, Innovation and Communication (MCTIC), where she has been coordinating international bilateral cooperation activities with several countries. She is presently a visiting Research Fellow at SPRU working on the assessment of Transformative Innovation Policy in Brazil. Ana Lúcia's professional experience includes one year at the Brazilian National Biosafety Commission (2009-2010) and 4 years at the National Council for Scientific and Technological Development – CNPq (2005-2009), where she acted as Head of the Intellectual Property Sector and Deputy Coordinator for Multilateral Cooperation.

Ana Lúcia has a B.Sc. in Biological Sciences (1992) and a Masters in Botany from the Federal University of Rio Grande do Sul (1995), Porto Alegre, Brazil. She completed her Ph.D. in Plant Molecular Biology at the University of Hamburg (2003), with a fellowship from the German Agency for Academic Exchange (DAAD). She was employed as a scientific co-worker at the University of Hannover for two years (2002-2004) and developed research in plant physiology and plant molecular biology.

**Carlos Aguirre Bastos** is specialist in science, technology and innovation and higher education policy in developing countries, with experience in Asia, Africa, Latin America and Europe. Since 2010 Senior Policy Adviser at the National Secretariat for Science of Panama; he is also Associate Researcher at the Institute



for Economic and Social Research of the Bolivian Catholic University. Since 1976 is a Member of the National Academy of Sciences of Bolivia, of which he was its President between 1992 and 2002. Former full professor, researcher and Director of the Physical Research Institute of the University of "San Andres" in Bolivia. He has been Associate of the International Center for Theoretical Physics in Italy; Visiting Researcher at the Institute for Physical and Chemical Research (RIKKEN) in Japan, the Austrian Institute of Technology in Vienna, the Institute for Pure and Applied Nuclear Physics in the University of Kiel, Germany, and the former Soviet Academy of Sciences. He held several executive and other academic and visiting research posts in Bolivia and worldwide. His undergraduate training was at the Oklahoma State University in the USA and his graduate work done with the Brazilian Physical Research Center, having earned his degree from the Federal University of Rio de Janeiro.

**Teresa de León Zamora** (see entry above)

## PARALLEL SESSION 2B: TRANSFORMATIVE INNOVATION POLICY IN AFRICA: ASPIRATIONS, PROGRESS, AND CHALLENGES

### Chair:

**Chux Daniels** is a research Fellow on Science, Technology and Innovation at SPRU.

### Panellists:

**Matthew Wallace** is a Senior Program Officer at International Development Research Centre (IDRC), in Ottawa. He works with the Foundations for Innovation program, where he manages projects related to various science policy issues such as science advice to governments, multilateral and industrial collaboration, and science careers in Latin America and Africa. Matthew has Masters' degrees in Physics and in Science and Technology Studies, as well as a Ph.D. in the History of Science. He has done research and worked in the science policy field for over a decade. Much of his research has focused on qualitative and quantitative tools for research evaluation. He previously worked as a science policy advisor and a senior evaluator at a federal ministry and at a granting agency in Canada.

**Imraan Patel**, a public policy and strategy specialist with a focus on the related areas of innovation, sustainability, social and economic development, public management and governance. Employed since 2006 at the Department of Science and Technology, he is

currently Deputy Director-General and represents the department on the social and economic clusters of government. At DST, he is responsible for strategically driving a portfolio of investments and policies that advance the social and economic development priorities of government through science and technology-based interventions. Particular areas of focus include science and technology for sustainable development, industrial development, transformative innovation, science and technology-based decision support.

**Ann Kingiri** is a Senior Research Fellow in science, technology & innovation (STI) with a focus on inclusive and sustainable development at the African Centre for Technology Studies (ACTS). She has been directing research at ACTS, a development policy think tank, working to harness applications of STI for sustainable development. Ann has been pursuing interdisciplinary research on an integrated approach to agricultural development and innovation with relevance to Africa's inclusive and sustainable development. Her recent research interests include holistic and inclusive approaches to STI policy processes including governance of new biosciences. She has published in these research areas. For more information, please visit [www.africalics.org/dr-ann-kingiri](http://www.africalics.org/dr-ann-kingiri)

**Mafini Dosso**, from Côte d'Ivoire and France, holds a PhD in economics of innovation from the University Paris 1 Panthéon-Sorbonne (France). Since 2013, she has worked as an Economist and Policy Analyst at the European Commission's Joint Research Centre (JRC) in Seville, Spain. Her work focuses on the analysis of technological and innovation trends of the world's largest innovative companies to inform industrial and innovation policies in the European Union. She also leads the JRC's scientific and conceptual policy reflections on the cooperation between sub-Saharan Africa and the EU for innovation strategies for smart specialisation (RIS3). She often provides technical advice on research, innovation management and policies to various establishments in Côte d'Ivoire.

## PARALLEL SESSION 2C: TRANSFORMATIVE INNOVATION POLICY IN EUROPE

### Chair:

**Matthias Weber** has been working for more than twenty years as researcher and policy advisor on matters of research, technology and innovation policy, foresight, and the governance of socio-technical transitions.



At national he has led many projects funded by the Federal Austrian Ministries for Transport, Innovation and Technology and for Science, Research and Economy, the Austrian Parliament, the Austrian Science Fund, the Austrian Research Promotion Agency, the Austrian Council for Research and Technology Development and the City of Vienna.

He coordinated several EU-funded projects, including NEMO (Network Models, Governance and R&D Collaboration Networks), INNOVA Sectoral Innovation Foresight, RIF (Research and Innovation Futures 2030. From Explorative to Transformative Scenarios), and - currently - BOHEMIA (Beyond the Horizon: Foresight in Support of the European Union's Future Research and Innovation Policy).

At international, he is regularly advising the OECD on matters of research and innovation policy, and UNIDO on strategies to foster research- and innovation-led economic development.

His thematic expertise covers a broad range of thematic areas, including information society, transport, energy, security, environment, and manufacturing as well as cross-cutting RTI-policy matters, in particular R&D collaboration networks in Europe, and priority setting.

#### Panellist:

**Elisabeth Gulbrandsen** is a Special Adviser to the Research Council of Norway. In recent years Elisabeth has been engaged with initiating and fostering experiments for learning and development under the umbrella term of Responsible Research and Innovation.

### PARALLEL SESSION 2D: LEARNING FROM POLICY EXPERIMENTATION IN CITIES

#### Chair:

**Jonas Torrens** is a PhD student and Research Fellow at SPRU. His primary interests are in the governance of urban low-carbon transitions. Since 2016, he has worked with the Transformative Innovation Policy Consortium and coordinated the 1st Eu-SPRI Winter School on Innovation Policy For Transformative Change. Prior to joining SPRU, Jonas worked at Stockholm Resilience Centre as a Research Assistant.

#### Panellists:

**Ms Paola Pollmeier** is the Open Innovation Coordinator at the RutaN (the science, technology and innovation centre of the Municipality of Medellín, Colombia). She has an MSc. in Global Management

& Governance and experience in initiating, driving and delivering high-level strategy & innovation projects. Recently, she has been convening Cities for Life, a platform aimed at involving citizens in public innovation processes – from challenge identification, ideation and project formulation. The Cities for Life platform allows partnering cities to conduct participatory processes of ideation, in which experts and citizens contribute with new insights and concrete ideas on how to solve pressing urban challenges. In her contribution, Paola will discuss the challenges of scalability, replicability and impact of urban experimentation.

**Dr. Maria Schnurr** is expert in sustainable mobility and urban development. As a Senior Researcher at Research Institutes of Sweden (RISE) she focuses on policy development for mobility innovations as well as transport technology's impacts on sustainability and urban development. Before joining RISE in February 2017, she worked in the automotive industry and in strategic foresight consulting in Germany, carrying out prospective studies for several industries and the public sector.

**Dr Niki Franzeskaki** is an Associate Professor on Sustainability Transitions' Governance at DRIFT, Faculty of Social Sciences at Erasmus University Rotterdam. She has an extensive portfolio of research projects and transdisciplinary engagements on the matter of urban sustainability transitions and has edited three books and 12 special issues on the topic. She has contributed as a leading expert on scientific exchange and co-production to the European Union and Brazil, and as a contributing author to international assessments (Commission on Biodiversity, Global Environmental Outlook, International Panel on Biodiversity and Ecosystem Services).

### PARALLEL SESSION 3A: REFLECTING ON THE EXPERIENCES OF NATIONAL STI AGENCIES IN LEADING THE DEVELOPMENT OF TRANSFORMATIVE INNOVATION POLICIES: THE CASE OF COLOMBIA (GREEN BOOK) AND SWEDEN (CHALLENGE DRIVEN INNOVATION)

#### Chair:

**Matias Ramirez** is Senior Lecturer at the Science Policy Research Unit. Much of his current research activity is related to innovation policy in Latin America where he is coordinating a project funded by the Colombian department of science and technology (Colciencias) on Transformative Innovation Policy.

#### Panellists:

**Alejandro Olaya Davila** (See entry above)





**Göran Marklund** is Deputy Director General and Head of Operational Development at VINNOVA, which is the Swedish Government Agency for Innovation Systems. He has previously been Associate Professor in Economic History at Uppsala University, Science and Technology Attachée at the Swedish Embassy in Washington DC and guest researcher at the Center for International Technology Policy (CISTP) at George Washington University.

### PARALLEL SESSION 3B: RE-VISITING SCIENCE, TECHNOLOGY AND INNOVATION: COUNTRY REVIEWS FROM A TRANSFORMATIVE CHANGE PERSPECTIVE

#### Chair:

**Blanche Ting** is a PhD student at SPRU. Her PhD is on socio-technical transitions in South Africa's electricity sector. She has deep expertise and understanding of the economic drivers and policy environment, and practical experience working with key players in energy and technology sectors. She has worked in South Africa, the U.K. and Switzerland, with various country missions in Africa, South America and the EU.

Prior to starting her PhD, she worked for four years at the Ministry of Science and Technology, Pretoria, South Africa as a Senior Specialist: Bio-economy (2010-2014). In this role, she worked on policies related to the green economy and broader climate change issues. Prior to this, she worked for more than four years at Sasol a South African petrochemical company that specializes in conversion of coal and gas to liquid fuels (2006-2010). At Sasol she worked as a Senior Scientist with a special focus on Environmental Technologies. She holds two Masters degrees: Science in Climate Change and Development from the Institute of Development Studies (IDS), U.K. as a Mandela-Sussex Scholar; and a Masters in Bioprocess Engineering at UCT, South Africa. Her main area of interest is on energy and sustainable development.

#### Panellists:

**Johan Schot** (See entry above)

**Michael Lim** is an Economist in the STI Policy Section of the Division on Technology and Logistics at the United Nations Conference on Trade and Development (UNCTAD). He has worked on science, technology and innovation (STI) policy and development, mainly on preparing Science, Technology and Innovation Policy (STIP) Reviews of developing countries, for 12 years. He has worked on development policy in UNCTAD for over 22 years.

**John L. Chongo** is currently Chief Science and Technology Officer, Department of Science and Technology in the Zambian Ministry of Higher Education based in Lusaka.

**Imraan Patel** (See entry above)

### PARALLEL SESSION 3C: EVALUATION FOR TRANSFORMATIVE INNOVATION POLICY

#### Chair:

**Joanna Chataway** is Deputy Director of SPRU and Professor of Science and Technology Policy. She co-convenes the MSc in Science and Technology Policy, and she convenes and teaches the Science, Institutions and Power module. Joanna has a background in international development and innovation policy. She has worked in high, middle and low-income country contexts and across various sectors. In recent years, however, her main focus areas have been health innovation and related policy and inclusive innovation. Currently, Joanna is the SPRU lead for the following DFID commissioned research project on knowledge systems in Africa, and has recently led the following completed commissioned research projects: An evaluation of the Hong Kong Research Grants Council (funded by the Hong Kong UGC); An evaluation of the European Commission's DG RTD spending on R&D related to Poverty Related and Neglected Diseases (funded by the European Commission); A political economy analysis of Science Grants Councils in Sub-Saharan Africa (funded by IDRC, DFID and the South African NRF).

#### Panellists:

**Jordi Molas Gallart** is a Research Professor at the Spanish National Research Council (CSIC), and Director of INGENIO (CSIC-UPV), a joint research centre of CSIC and the Polytechnic University of Valencia. INGENIO is the leading Spanish centre in the study of research and innovation processes, with a staff of some 40 researchers and support staff.

His research focuses on the evaluation of science and technology policies. He has led and contributed to many research projects for a wide variety of organisations, including the UK Medical Research Council (MRC) and the Economic and Social Research Council (ESRC), the French and British ministries of defence, INSERM, the Joint Research Centre of the European Commission, and the Russell Group of British universities among many others. He is editor of Research Evaluation, a journal published by Oxford University Press and President of



the European Network of Indicator Designers (ENID). He has been a member of many European Commission expert groups, and chaired the Science Europe working group on Research Policy and Programme Evaluation.

**Alejandra Boni Aristizabal** has a PhD in Human Rights and Democracy from the University of Valencia; Professor at the Dpt. of Projects Engineering at the University Politécnic de Valencia. Deputy Director of Ingenio (CSIC-UPV). Visitor researcher at the Institute of Development Studies in Sussex (2007), Institute of Social Studies in The Hague (2009), Research Centre for Leadership in Action at New York University (2011), Instituto Pensar at U. Javieriana de Bogota (2011 and 2013) the Free State University in South Africa (2013 and 2014) and University College of London (2016-17). Special Lecture Nottingham University (2008-2012) and Honorary Professor of the University of the Free State in South Africa.

Her main areas of research interest are human development, university, development education, international cooperation, project planning, grassroots social innovation and action research. She convenes the CYTED network Multidimensional Analysis of university-society interactions in Iberoamerica (2018-2021) which includes 13 iberoamerican institutions. She has been Principal researcher in several research projects (2005-2013) on development education, international cooperation and development aid funded by AECID, UPV and Secretaría de Estado de Universidades. Partner of four European Projects: EDUWEL (2010-2014), SOCIETY (2013-2015), Global Engineering (2013-2015), Global Identity through Human Development (2014) and Students 4 Change. Social Entrepreneurship in Academia (2016-2019).

**Daniel Johansson** is Head of Analysis for VINNOVA, Sweden.

#### PARALLEL SESSION 4A: 'TRAINING AND CAPACITY BUILDING TO SUPPORT TRANSFORMATIVE INNOVATION

##### Chair:

**Sarah Schepers** is the Programme Director for the Transformative Innovation Policy Consortium where she leads on the operational management of the trans-national programme, and supports Prof. Johan Schot on strategy and development of the consortium. She is also working directly on the training and capability work package. Prior to this she was Head of Strategy for SPRU, leading on external partnerships, communications, research engagement and impact.

During this time she initiated 'Policy@Sussex' which aims to help build capacity in policy communications and research impact and promote policy relevant social science research at Sussex University. She previously managed the £3.5m EPSRC research centre 'The Centre on Innovation and Energy Demand' based in SPRU. She has a wide ranging experience of social science policy engagement having managed communications for the Centre for Low Carbon Futures, Climate Strategies and prior to this 10 years in marketing and communications roles in the corporate sector.

##### Panellists:

**Cristian Matti** is an expert in sustainability transitions and regional innovation systems. He is the lead of the Transitions Hub lab unit at EIT Climate-KIC and visiting researcher at University of Utrecht. He contributes to regional and urban initiatives by facilitating science-policy-practice interface for the development and implementation of policy strategies and capacity development processes. He has contributed to research projects on natural resource based innovation, regional and industrial system of innovation as well as innovation policies for public and private organisations in Europe and Latin America. He has also experience as academic coordinator of professional education and postgraduate courses on sustainability and regional innovation. Similarly, he has also participated as an expert in the analysis of technological trends and policies in Argentina's Second Submission to the United Nation's Convention on Climate Change. His primary interest is on the linkages between science and practice in facing the challenge of supporting regional and local development as well as transforming governance mechanisms and innovation processes.

**Ann Kingiri** (See entry above)

**Geert Wilms** For more than 20 years Geert Wilms has been the director of Agricultural Innovation Brabant (LIB), a partnership of the Province of North-Brabant and the farmer's organization ZLTO. Each year more than 30 innovative projects are initiated and supported, with the participation of hundreds of (agricultural) businesses. And several workshops are organized and guided. Geert is directly accountable to the President of the ZLTO and the regional Minister of agriculture in the province North-Brabant. One project that he started and is very proud of is: "Smart irrigation in agriculture; with 3.000 farmers participating with in total 60.000 hectares, and 25% gain of efficiency in water use was realised". He also puts his knowledge and experience in practice in other parts of the Netherlands, and as a speaker, discussion leader and initiator of cooperation in



different regions in Europe. He is/was involved in more than 15 European funded projects, for example Water management, Water conservation, Agrispin, Eurodairy, EU-PIG and STRING.

#### PARALLEL SESSION 4B: RESEARCH DESIGN AND METHOD FOR TRANSFORMATIVE INNOVATION – GLOBAL NORTH FOCUS

##### Chair:

**Stefan Kuhlmann** (See entry above)

##### Panellists:

**Lea Fuenfschilling** is a postdoctoral researcher at CIRCLE, Lund University. She holds a PhD in Sociology from the University of Basel. Her dissertation is entitled “A dynamic model of socio-technical change. Institutions, actors and technology in interaction” and was published in 2014. Her current research interests are centred around system innovations for grand societal challenges. Special attention is devoted to the interrelatedness and co-evolution of institutions, actors and technology in socio-technical systems.

**Adrian Smith** (See entry above)

**Matthias Weber** (See entry above)

#### PARALLEL SESSION 4C: THE IMPORTANCE OF PLACE-BASED AND REGIONAL POLICY AGENDAS IN TRANSFORMATIVE INNOVATION

##### Chair:

**Matias Ramirez** (See entry above)

##### Panellists:

**Jonas Torrens** (See entry above)

**Claudia E. Obando Rodríguez** is an economist, MSc in Technology and Innovation Management and currently a PhD student at SPRU. Claudia worked in the past for Colciencias leading the programmes on technology based entrepreneurship and innovation management. She was the Director of the digital entrepreneurship programme Apps.co at the Ministry of ICT and worked for the Private Council for Competitiveness as General Secretariat and Senior Researcher. In 2016, she was awarded the Chancellor’s International Research Scholarship CIRS by the University of Sussex, when she started her PhD. Currently, she also works as a Research Assistant for SPRU.

**Tatiana Rodríguez Maldonado** is a political scientist and a researcher on the environment, security, armed conflict, human rights and communication. She has worked in CENSAT Agua Viva – Friends of the Earth Colombia, as the coordinator of the Mining Area, supporting communities in the defense of their territories against extractive projects. She now works for the National Center for Historical Memory, coordinating the area that supports victims’ memory initiatives. Also, she is part of the Global Greengrants Fund Andes Advisory Board.



# PRACTICAL INFORMATION



## VENUE

All sessions will take place in the Conference Centre, 3rd Floor, Bramber House at the University of Sussex, Falmer, Brighton, UK.



## TWITTER

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## GALA DINNER 4 OCTOBER

All registered participants are invited to the conference dinner taking place on Brighton Pier from 7pm-11pm.

*Please note there will be a coach leaving Bramber House at 5.45pm to take participants back into Brighton. Dinner will be at 7pm at Brighton Palace Pier.*



## TRANSPORTATION

### By air:

The closest airport to Brighton is London Gatwick. Gatwick is 30 minutes by train to Brighton. London Heathrow is around two hours by coach.

### By train:

You can reach the University of Sussex directly by travelling to Falmer Station, which is directly opposite the campus. You can walk to the campus from the station through a subway under the A27. Follow signs for the University of Sussex. Four trains an hour go to Falmer from Brighton during the day. If you are travelling from London and the west, take a train to Brighton and change there for Falmer. The journey time from London to Brighton is just under an hour. You can also change at Lewes for Falmer, if you are coming from the east.

### By bus:

The 23, 25, 25X, 28 and 29 buses run between the centre of Brighton and the campus.

### By car:

The University is at Falmer on the A27 between Brighton and Lewes, about four miles (six kilometres) from the centre of Brighton. Follow signs for the University of Sussex, which is on the north side of the A27.

### Parking on Campus:

Parking on campus is limited but we will be able to provide you with parking permits for the 3rd and 4th October. Please contact Pip Bolton at [p.j.bolton@sussex.ac.uk](mailto:p.j.bolton@sussex.ac.uk) if you require a parking permit.



# NOTES



A large white rounded rectangle containing 25 horizontal blue lines for writing notes.







EXPLORE FURTHER

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## CONTACT

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