

TRANSFORMATIVE METRICS WORKSHOP

5th and 6th October 2020
Universidad de Antioquia- www.udea.edu.co

Presentation

This workshop aims to establish a new research agenda on how existing and new methodological approaches can study social and technological change. Transitions scholars have begun to search for new methods and indicators to study transitions. This chimes with research in areas such as the Sustainable Development Goals (SDGs) and the Paris Agreement on Climate Change, that call for new indicators, models, and methodological approaches to evaluate the implementation of these agendas. Following, this the transitions research community has called for the development of a “structured navigation” method and a “formal model” to study transformation and sustainability agendas.

Day1st. 5th October Agenda

8:00 COL / 14:00 GMT

Welcome

Oscar Y. Romero G. Ph.D Candidate, Gabriel Vélez-Cuartas Ph.D

8:15 - 9:00 COL / 2:15 – 13:00 GMT

Evaluation and metrics for transitions and transformations. Conversation
Interviewer: Gabriel Vélez-Cuartas

Johan Schot. JS is a Dutch historian working in the field of science and technology policy. A historian of technology and an expert in sustainability transitions, Johan Schot is Professor of Global Comparative History at the Centre for Global Challenges, Utrecht University. He is the Academic Director of the Transformative Innovation Policy Consortium (TIPC) and former Director of the Science Policy Research Unit (SPRU) at the University of Sussex.

Ismael Rafols. IR is a senior researcher at The Centre for Science and Technology Studies (CWTS) and associate faculty at SPRU (Science Policy Research Unit) at the University of Sussex. He is a member of the Science, Technology & Innovation Studies Group. He works on science policy developing novel approaches to S&T indicators, using mixed-methods for informing evaluation, foresight and research strategies. His current focus is on research priority setting, for societal challenges such as bird flu or obesity, or Sustainable Development Goals (SDGs), particularly in health and agriculture.

Matías Ramírez. MR is Senior Lecturer at the Science Policy Research Unit at the University of Sussex Business School where TIPC was founded. He coordinates the work of TIPC in Latin America. This includes the partnership with Minciencias and the writing of the Green Book policy document in Colombia in 2018 and the work on mapping the sustainable development goals of the national research system of Mexico. He also coordinates the Latin America Hub of TIPC founded in April 2020 involving organisations from Colombia, Chile and Mexico.

9:00 - 9:15 COL / 15:00 - 15:15 GMT

Commentators present their sessions (5 minutes each)

9:15 - 9:30 COL / 15:15 - 15:30 GMT. Coffee Break

9:30 COL / 15:30 GMT

Four parallel sessions. (10 minutes each presentation). 15 minutes of comments. Fifteen minutes of discussion on methodologies.

1. Measuring Transitions. Session 01

- The role of social movements in enabling regional unrelated diversification in Colombia. Claudia Obando (*University of Sussex*)
- A first proposal of a sustainability evaluation index for Latin American public transport systems. Alexandra Velasco (*Technische Universität Dresden*).
- Understanding and Scoring the Level of Environmental and Social Sustainability of Urban Mobility and Energy Transition Pathways. Peerawat Payakkamas, Marc Dijk (*Maastricht University*)

Commentator: Luciano Gallón (*Universidad Pontificia Bolivariana*)

Moderator: Mauricio Domínguez (*Universidad de Antioquia*)

2. Framing methodological approaches to measure transformation. Session 02

- Reflections on evaluation for transition and transformation. Stephen Williams (*Institute for Advanced Sustainability Studies; Simon Fraser University; Chalmers University of Technology*)
- A Review of Innovation Models and Indicator Frameworks Towards a New Framework for Assessing Transformative Potential of Innovative Activities. Caetano C.R. Penna (*Utrecht University Centre for Global Challenges, Universidade Federal do Rio de Janeiro*)
- Tipping points in transitions of socio-economic systems. Franziska Mey (*Institute for Advanced Sustainability Studies*), Johan Lilliestam (*Institute for Advanced Sustainability Studies; University of Postdam*)

Commentator: Cristian Matti (*Climate KIC*)

Moderator: Gabriel Vélez-Cuertas (*Universidad de Antioquia*)

3. Niches-case studies. Session 03

- Analysing Energy Systems Integration: A Socio-technical Approach and a System Architecture Methodology. Ali El Hadi Berjawi, Sara Louise Walker, Charalampos Patsios, Seyed Hamid Reza Hosseini (*Newcastle University*)
- Measuring Governance Challenges of Sustainable Regional Development. Oscar Iván Perez, Alejandro Balanzó, Leonardo Garavito (*Universidad Externado de Colombia*)
- Socio-technical reconfigurations where infrastructure networks have failed: The case of rainwater harvesting in Mexico City. Jorge Adrián Ortiz Moreno (*University of Sussex*)

Commentator: Carmen Bueno (*Universidad Iberoamericana, Sede Santa Fé*)

Moderator: Eliana Martínez-Herrera (*Universidad de Antioquia*)

4. Environmental policy, and sustainability transitions. Session 04

- Synergies and Trade-offs between the SDGs: An approach based on country performances. Amir Emami, Viktoria Spaiser, Richard P. Mann (*University of Leeds*), Israel Osorio Rodarte (*World Bank*)
- Pattern Discovery for Climate and Environmental Policy Indicators. Kyle Herman (*Global Governance Institute/UCL*)
- Futuring Food and Realising Transformative Scenarios: Insights from SHARECITY. Louise Michelle Fitzgerald (*SHARECITY*)

Commentator: María Luisa Eschenhagen (*Universidad Pontificia Bolivariana*)

Moderator: Oscar Y. Romero G. (*Utrecht University Centre for Global Challengers*)

10:30-11:30 COL/ 16:30-17:30 GMT

Plenary. Each commentator makes some remarks about their respective session (Fifteen minutes each). Discussion

Day 2nd. 6th October Agenda

8:00 COL / 14:00 GMT

Wellcome

Eliana Martinez-Herrera PhD, Oscar Romero PhD Candidate.

8:15 - 9:00 COL / 2:15 - 13:00 GMT

Metrics addressed to transformation. Conversation

Interviewer: Oscar Y. Romero G.

Elisa Bellotti Along with being part of the department of sociology, she is a member of the Mitchell Centre for Social Network Analysis, where she organises the weekly seminar series. She teaches introductory and advance workshops in social network analysis and ego networks, and on mixed methods in SNA. Before arriving in Manchester in 2008, she worked as a research fellow at the University of Turin and the University of Bozen, Italy. She completed her Ph.D. in Sociology and Methodology of Social Research in 2006 at the Catholic University of Milan.

Diego Chavarro DC He is a researcher at the Colombian Society of Physical Engineering. He studied his Ph.D. at the Science Policy Research Unit located at the University of Sussex. He belongs to the Network on Science, Technology, and Innovation Management.

Gaston Heimeriks GH is is Assistant Professor at the Department of Innovation Studies, Copernicus Institute, Utrecht University. He is also a senior research fellow at the Centre for Science and Technology Studies (CWTS) at Leiden University. Gaston is currently vice president and member of the Executive Committee of the Eu-SPRI Forum (European Forum for Studies of Policies for Research and Innovation).

9:00 - 9:15 COL / 15:00 - 15:15 GMT

Commentators present their sessions (5 minutes each)

9:15 - 9:30 COL / 15:15 - 15:30 GMT. Coffee Break

9:30 COL / 15:30 GMT

Four parallel sessions. (10 minutes each presentation). 15 minutes of comments. Fifteen minutes of discussion on methodologies.

5. Mapping transformations. Session 05

- Mapping Research Systems in Relation to the Sustainable Development Goals. Hugo Confraria (*Research Unit on Complexity and Economics, Universidade de Lisboa, University of Sussex*), Tommaso Ciarli (*University of Sussex*)
- Mapping transformative partnerships: Towards a relational understanding of partnerships and networks driving energy transitions. Lena Jaspersen (*University of Leeds*)
- Towards a tool for mapping quality and constraints of transformative outcomes. Bipashyee Ghosh (*University of Sussex*)

Commentator: José Luis Molina (Universidad Autónoma de Barcelona)

Moderator: Gabriel Vélez-Cuartas (*Universidad de Antioquia*)

6. Food systems transitions. Session 06

- IT a new tool to estimate, communicate and improve the sustainability impacts of food



sharing initiatives in cities. Alwynne H. McGeever, Anna R. Davies (*SHARECITY*)

- Niche evolution, external circumstances, and network transformation: from butiá technical niche to butiá socio-technical niche. Marcelo Fernandez Pacheco Dias (*Universidade Federal de Pelotas*)
- Niche Analysis Framework: A case study of the Developmental niche of Creole Bean varieties. Eduardo Souza (*Universidade Federal de Pelotas*)
- Strategies for construction and development of sociotechnological innovation niches in agribusiness: a case study in poultry production niche of cage-free housing. Telmo Lena Garcez (*Universidade Federal de Pelotas*)

Commentator: Eliana Martínez-Herrera (*Universidad de Antioquia*)

Moderator: Marta Liliana Marín (*SPRU/U. Sussex*)

7. Navigating policies and metrics to implement sustainable pathways. Session 07

- A functions approach for evaluating transformative innovation policy: indicators and metrics. Carolina Resende Haddad, Anna Bergek (*Chalmers University of Technology*)
- Operationalising the measurement and incentives towards (re-)creating 'green capital' in the production of net sustainability outputs. Amy Burnett (*Development in transition DinT*)
- The evolution of R&I paradigms and associated evaluation and indicator frameworks. Christoph Brodnik, Michael Dinges, Martina Neuländtner (*Austrian Institute of Technology*)

Commentator: Pablo Patiño (*Universidad de Antioquia*)

Moderator: Oscar Y. Romero G. (*Utrecht University Centre for Global Challenges*)

8. Cocreation and participatory methods to understand sustainability transitions. Session 08

- Responsible metrics for responsible innovation: putting people at the centre Exploring windows for change in a Spanish state initiative on innovation monitoring with gender perspective, within the European merge of governance frames. Paula Otero-Hermida (*Ingenio CSIC, UPV*)
- Towards a set of transformation measurements within a community from an organizational change and transformational learning perspective. Andrea C. Martínez-Lozada, Germán D. Leuro, Elizabeth Torres, Cristian Torres (*Universidad Autónoma de Bucaramanga*).
- Tools for transformative change in socio-technical systems: Reflections from a co-creation and technical-assistance process with service-oriented innovation projects. Carla Palavacino (*Utrecht University Centre for Global Challengers*)

Commentator: Alejandro Balanzó (*Universidad Externado de Colombia*)

Moderator: Mauricio Domínguez (*Universidad de Antioquia*)

10:30 - 11:30 COL/ 16:30 -17:30 GMT

Plenary. Each commentator makes some remarks about their respective session. Some final comments about the workshop oriented by Pablo Patiño (fifteen minutes).

12:00 COL / 18:00 GMT

End of the workshop

Instructions

- Youtube for General Audience:
<https://www.youtube.com/channel/UCLphWgSaFolglvDDhXrWgLg/videos>
- The ZOOM platform of the University of Antioquia for participants will be emailing soon

Organizing Committee

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*In alliance with *REDICONOS. Red de Conocimiento de Ciencia, Tecnología, Innovación, Sociedad.*

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Certificates

In case you need a certificate, please fill out the following form:
<https://forms.gle/Jk24GgDhGsoCAcrD8>