

Overview

Track	Track organizers	Wednesday 11.00-12.30	Wednesday 13.30-15.30	Wednesday 17.30-19.00	Thursday 09.00-10.30	Thursday 11.00-12.30	Thursday 15.00-16.30	Thursday 18.00-19.30	Friday 08.30-10.00	Friday 14.00 -15.30
Track 1: Addressing the role of research and innovation in times of crises	Joaquín M. Azagra-Caro, Laura Cruz-Castro, Adelheid Holl, Catalina Martinez, Ruth Rama and Lous Sanz-Menéndez & Maria Karaulova	Session 1.1 – Research, innovation and crisis: Systems and policy	Session 1.2 – Research, innovation and crisis: Firms		Session 1.3 – Research, innovation and crisis: cooperation & culture		Session 1.4 – Research, innovation and crisis: Patents, TMT and RTO			
Track 2: Innovation in times of crisis: lessons from the Covid-19 Pandemic	Marco Capasso, Erik Fjærli, Eric J. Iversen, Marina Rybalka, Tore Sandven & Espen Solberg.	Session 2.1	Session 2.2						Session 2.3	
Track 3: Rethinking medical innovation in times of crises: organization, delivery and company responses	Bastian Rake, Maureen McKelvey & Magnus Gulbrandsen.		Session 3.1		Session 3.2		Session 3.3			
Track 4: Transforming 'wicked-problems' into 'moonshot-opportunities': the role of research and innovation in the responsible and sustainable assessment of management of 'catastrophes'. 'wild cards' and related 'weak signals'	Rafael Popper, Raija Koivisto, Jari Kaivo-oja, Toni Ahlqvist & Joe Ravetz					Session 4.1				Session 4.2
		Wednesday 11.00-12.30	Wednesday 13.30-15.30	Wednesday 17.30-19.00	Thursday 09.00-10.30	Thursday 11.00-12.30	Thursday 15.00-16.30	Thursday 18.00-19.30	Friday 08.30-10.00	Friday 14.00 -15.30
Track 5: Assessing the transformative potential of research and innovation policies	Douglas K. R. Robinson, Mireille Matt & Jordi Molas-Gallart.				Session 5.1	Session 5.2	Session 5.3			Session 5.4
Track 6: Excellence in research and societal impact - an uneasy relationship?	Siri Brorstad Borlaug & Liv Langfeldt.	Session 6.1			Session 6.2					Session 6.3
Track 7: Impact excellence and beyond: understanding complexity in analysing and assessing socio-technical impacts	Mika Nieminen, Kirsi Hyytinen, Peter Biegelbauer, Michael Dinges and Faiz Gallouj.				Session 7.1		Session 7.2			Session 7.3
Track 8: New indicators and approaches in STI Policy: beyond data and prediction to impacting the policy cycle	Arho Suominen, Rainer Frietsch, Torben Schubert, Ad Notten, C.P. (Cees) van Beers, Scott Cunningham & Vilius Stančiauskas.			Session 8.1		Session 8.2			Session 8.3	
Track 9: Public organisations for science and innovation, the same designs for new outcomes?	Rodrigo Cevallos, Arthur Moreira & Emanuela Reale.		Session 9.1	Session 9.2						
Track 10: Public research funding and its implications for science, innovation and society	Benedetto Lepori, Ben Jongbloed & Diana Hicks.	Session 10.1 – Funding configurations and competition	Session 10.2 – Emerging countries	Session 10.3 – Funding policies		Session 10.4 – Funding instruments	Session 10.5 Funding organizations I	Session 10.6 – Funding research organizations II		Session 10.7 – Funding researchers
Track 11: Structures and effects of corporate publishing: beyond the public science-push	Knut Blind, Bastian Krieger, Maikel Pellens & Torben Schubert.			Session 11.1						
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Track 12: Agility, tentativeness and resilience: how to govern innovation systems and STI policies in times of crises and transformative change?	Carsten Dreher & Matthias Weber.				Session 12.1		Session 12.2	Session 12.3		
Track 13: Geography and policy complexity in normative innovation policy thinking: what are the issues and how should they be tackled?	Elvira Uyarra, Iris Wanzenböck, Huiwen Gong, Robert Hassink, Edurne Magro, Keving Morgan, Lars Coenen & Kieron Flanagan.	Session 13.1	Session 13.2		Session 13.3		Session 13.4			Session 13.5
Track 14: STI Policies in the global south: broadening the scope?	Katharina Schiller, Bipashyee Ghosh, Adriana Marotti de Mello, Mei Casal, Rafael Carvalho Machado & Sumit Kumar.				Session 14.1 - Learning	Session 14.2 – New aspects on policy-making			Session 14.3 – International influence	Session 14.4 – Role and influence of institutions
Track 15: Systems approaches for understanding and assessing the impact of directionality in challenge-led policy	Joeri Wesseling, Anna Bergek & Matthijs Janssen.	Session 15.1		Session 15.2 Cancelled	Session 15.3	Session 15.4		Session 15.5	Session 15.6	
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Track 16: IPR and innovation policy for sustainability transitions	Carsten Dreher, Elisabeth Eppinger & Martina Kovac.	Session 16.1				Session 16.2		Session 16.3		
Track 17: The use of participatory methods for transformative innovation engagements	Alejandra Boni & Bipashyee Ghosh.			Session 17.1 – Policy and governance			Session 17.2 - Methods			Session 17.3 – Hybrid round table
Track 18: Transformative missions and STI policies	Jakob Edler, Mireille Matt, Wolfgang Polt & Matthias Weber.	Session 18.1	Session 18.2	Session 18.3			Session 18.4		Session 18.5	
Track 19: International relations of science, technology and innovation (policies)	Ewert Aukes, Tim Flink, Stefan Kuhlmann, Gonzalo Ordóñez-Matamoros, Charlotte Rungius & Mitchell Young.			Session 19.1				Session 19.2		
Track 20: Innovation Journey in focus, the context in mind - recent approaches	Peter Stegmaier, Lasse Loft, Michael Klingler and Ewert Aukes.		Session 20.1							
Track 21: Relations research industry and research-policy: new perspectives				Session 21.1				Session 21.2		
Track 22: Science and innovation studies: new perspectives			Session 22.1						Session 22.2	
Track 23: Knowledge co-creation to address grand societal challenges: new policy approaches	José Guimón					Session 23.1				

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Track 1: Addressing the role of research and innovation in times of crises	<p>Session 1.1 - Research, innovation crisis: Systems & Policy</p> <p>Chairs: Laura Cruz-Castro & Luis Sanz-Menéndez.</p> <p>17. Facing the coronavirus crisis: Opportunities and challenges in developing countries, the Argentina case - Graciela Gutman & Pablo Lavarello.</p> <p>163. Public R&D Investment in Economic Crises - Maikel Pellens, Bettina Peters, Martin Hud, Christian Rammer & Georg Licht.</p> <p>147. Exploratory study on functioning of creative urban ecosystems and innovation at the peak of COVID-19: case of selected Central and Eastern European Countries - Tamara Besednjak Valič.</p> <p>228. Managing the pandemic in German Federal States: varieties of interventions and their consequences for mobility and interactions in innovation ecosystems - Maria Karaulova & Henning Kroll.</p>	<p>Session 1.2 - Research innovation and crisis: Firms</p> <p>Chairs: Adelheid Holl & Ruth Rama.</p> <p>23. A decomposition of Spanish firms' internal R&D distribution: characteristics and business cycle - Sebastiano Cattaruzzo, Mercedes Teruel & Agustí Segarra-Blasco.</p> <p>39. How COVID-19 is affecting the decision to innovate and firms' growth in Europe? A comparative analysis across different crisis - Anabela Santos.</p> <p>142. Employment and Innovation in Recessions: Firm-Level Evidence from European Countries - Bettina Peters, Bernhard Dachs, Martin Hud & Christian Koehler.</p>		<p>Session 1.3 - Research, innovation and crisis: Cooperation & culture</p> <p>Chairs: Joaquin M. Azagra-Caro & Maria Karaulova.</p> <p>67. Industry-University links and firms' resilience during the Great Recession: Evidence for Spanish firms - Dolores Añón Higón & Óscar Vicente.</p> <p>195. Cooperation for innovation and the business cycle - Antonio García-Sánchez & Ruth Rama.</p> <p>55. Following the Pandemic on Reddit: Hyperlinking Practices of Science Enthusiasts- Frauke Rohden.</p> <p>115. Science as a rescuer? Public trust in science amid COVID 19 - Silje Maria Tellmann & Taran Thune.</p>		<p>Session 1.4 - Research, innovation and crisis: Patents, TMT and RTO</p> <p>Chair: Catalina Martínez.</p> <p>203. Rational Industrial Policy: Standing on the Shoulders of Giant Gnomes? - Charlotte Guillard, Ralf Martin, Pierre Mohnen, Catherine Thomas & Dennis Verhoeven.</p> <p>54. Top management teams and their role in enabling work-life balance. The impact of COVID-19 - Ana García-Granero, Anabel Fernández-Mesa, Julia Olmos-Peñuela and Joaquin Alegre.</p> <p>134. How RTOs respond to the Covid-19 crises: A comparative case study of their capacity to promote the orientation of innovation systems towards societal needs - Hendrik Berghaeuser, Florian Wittmann, Stephanie Daimer & Henning Kroll.</p>			
	Track 2: Innovation in times of crisis: lessons from the Covid-19 Pandemic	<p>Session 2.1</p> <p>Chair: Espen Solberg.</p> <p>133. Firm dynamism during crises - Erik Fjærli, Marco Capasso & Marina Rybalka.</p> <p>16. Monetary and fiscal policy response to the Covid-19 health and economic crisis - Mario Morroni & Pompeo Della Posta.</p> <p>64. Understanding the Heterogeneous Additionality of R&D Subsidy Programs of Different Government Levels - Alex J. Guerrero, Joost Heijs and Elena Huergo.</p> <p>236. Science, technology and innovation in the time of COVID-19 - Caroline Paunov & Sandra Planes Satorra.</p>	<p>Session 2.2</p> <p>Chair: Marco Capasso.</p> <p>87. Innovation pattern heterogeneity and crisis resilience - Marina Rybalka & Marco Capasso.</p> <p>177. National Quality Infrastructures in the COVID-19 Pandemic: Insights from a Multinational Study on Impacts and Institutional Responses of Conformity Assessment Bodies - Claudia Koch, Parsa Asna-Ashari, Knut Blind, Pavel Castka & Mona Mirtsch.</p> <p>114. The adoption of digital technologies in Brazilian industrial firms: patterns of path dependence and determinant factors - Ana Urraca-Ruiz, Julia Torracca, João Carlos Ferraz, Euler Daltro & Jorge Britto.</p> <p>158. Purpose-driven innovation in response to COVID-19: exploring the emergency window of opportunity - Amber Geurts, Tara Geerdink & Marit Sprengeling.</p> <p>174. Rethinking resilience: the role of gatekeepers in fostering adaptability - Dima Yankova.</p>						<p>Session 2.3</p> <p>Chair: Erik Fjærli.</p> <p>201. COVID-19 as societal challenge: How agile was the German mission-oriented innovation policy during the crisis? - Carsten Schwäbe, Bernhard Dachs, Carsten Dreher & Elina Pulkova.</p> <p>198. The COVID-19 pandemic and its implications for rule-makers of innovation - Philipp Heß & Knut Blind.</p> <p>13. Preparing Research and Innovation for Post-Covid-19 Times: Transformative Scenarios for a Sustainable and Crisis-resistant RTI Policy - Kerstin Cuhls, Susanne Giesecke, Dana Wasserbacher, Totti Könnölä & Aaron Rosa.</p> <p>242. What future for science, technology and innovation after COVID-19? - Caroline Paunov & Sandra Planes Satorra.</p>
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Track 3: Rethinking medical innovation in times of crises: organization, delivery and company responses		<p>Session 3.1</p> <p>Chair: Magnus Gulbrandsen.</p> <p>92. An institutional perspective on short-term responses to landscape events: novel high-throughput PCR Testing Systems during the Covid-19 Crisis in UK and Spain - David Barbera-Tomás & Michael M. Hopkins.</p> <p>243. The rise of industry manufacturers for societal resilience during the Covid crisis in Denmark - Lykke Margot Ricard & Mette Præst Knudsen.</p> <p>262. Emergency circumstances call for extraordinary measures: a study of research council COVID-19 emergency call projects - Trust Saidi & Magnus Gulbrandsen.</p> <p>267. Ready to innovate during a global pandemic? A study of the response to Covid-19 in Iceland - Maureen McKelvey & Rögnvaldur Saemundsson.</p>		<p>Session 3.2</p> <p>Chair: Bastian Rake.</p> <p>93. THE EMERGENCE OF DEEP LEARNING IN COLLABORATIVE DIGITAL INNOVATION. A FRAMEWORK AND THE CASE OF MEDICAL IMAGING DIAGNOSIS OF COVID-19 - David Barbera.</p> <p>110. Transitions in the vaccine innovation system: analysis of changing innovation barriers - Linda van de Burgwal & Tom van der Valk.</p> <p>232. Mobilizing knowledge for science and innovation: a multi-criteria approach for the analysis of scientific impact of research collaboration processes through biomedical research networks - Hannia Gonzalez-Urango, Pablo D'este, Rocio Poveda Bautista, Oscar Llopis & Adrián A. Diaz-Faes.</p>		<p>Session 3.3</p> <p>Chair: Maureen McKelvey.</p> <p>10. Healing Healthcare: Bring A Linguistic Perspective to Open Innovation in Pharmaceutical Firms - Jingning Ao.</p> <p>166. Institutionalization of converging medical technologies: The case of MRI-guided radiotherapy implementation in North America and the Netherlands - Charisma Hehakaya & Ellen H.M. Moors.</p> <p>268. Creative work culture and innovation in health care - Taran Thune, Aleksander Erichsen & Sveinung Tornås.</p>			
	Track 4: Transforming 'wicked-problems' into 'moonshot-opportunities': the role of research and innovation in the responsible and sustainable assessment of management of 'catastrophes', 'wild cards' and related 'weak signals'					<p>Session 4.1</p> <p>Chairs: Rafael Popper & Toni Ahlqvist.</p> <p>245. Towards a Methodological Framework for a Sustainable Intelligence System on Uncertainties (SISU) - Rafael Popper, Toni Ahlqvist & Jari Kaivo-Oja.</p> <p>123. "Conquering Cancer - Mission Possible". Foresight for a European Mission and Transformative Change - Susanne Giesecke, Kerstin Cuhls & Dana Wasserbacher.</p> <p>272. The role of uncertain futures in transforming wicked-problems into moonshot-opportunities: The case of human on Mars - Khaled Al Hashmi and Rafeal Popper.</p> <p>273. The role of "Universal Foresight" in the assessment and management of wicked-problems and moonshot-opportunities - Rafael Popper, Lonny Brooks, Kerstin Cuhls, Monika Popper, Alexander Sokolov and Guillermo Velasco.</p>			<p>Session 4.2</p> <p>Chairs: Rafael Popper & Toni Ahlqvist.</p> <p>274. Towards a Taxonomy and Topology of Wild Cards: The role of dynamic systems in the analysis of wicked-problems and future solutions - Rafael Popper, Yuli Villarreal, Raimund Popper & Monika Popper.</p> <p>271. Using wild cards and weak signals analysis to boost safety and resilience of complex socio-technical systems: The case of nuclear catastrophes - Torsti Loikkanen, Rafael Popper & Raija Koivisto.</p> <p>132. 2050 Foresight Study on an Aging, High-Tech Risk and Natural Disaster-Prone Society: A Comparison of Expert-Based and Participatory Scenario Workshop-Based Approaches - Hui-Tzu Huang & Kuei-Tien Chou.</p> <p>256. The new sciences of fire and flood: R&I policy for disruption, chaos and the global urban-climate nexus - Joe Ravetz.</p>
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Track 5: Assessing the transformative potential of research and innovation policies				<p>Session 5.1</p> <p>Chair: Douglas K. R. Robinson.</p> <p>28. THE EVOLUTION OF R&I PARADIGMS AND ASSOCIATED EVALUATION AND INDICATOR FRAMEWORKS - Christoph Brodnik, Michael Dinges & Martina Neulaendtner.</p> <p>162. Challenge-driven research programs: lessons from three case studies - Laurens Hessels, Isabelle van Elkakker, Jos Van Den Broek, Leonie van Drooge & Jasper Deuten.</p> <p>59. ASIRPA Real-Time: a method to steer research towards desired societal transformations - Mireille Matt, Douglas Robinson, Renee van Dis, Pierre-Benoit Joly & Laurence Colinet.</p>	<p>Session 5.2</p> <p>Chair: Mireille Matt.</p> <p>217. Adopting a co-creation approach for Transformative Innovation in service-oriented projects - Carla Alvia Palavicino, Cristian Matti & Christoph Brodnik.</p> <p>89. Old policies for new problems: Can public financial support help firms overcome non-financial constraints to research and innovation? - Mauricio Perez-Alaniz, Helena Lenihan, Justin Doran & Stephen Roper.</p> <p>151. Multiple futures for society, research, and innovation in the European Union: Jumping ahead to 2038 - Stephanie Daimer, Attila Havas, Kerstin Cuhls, Merve Yorulmaz, Petar Vrgovic & Erich Griessler.</p>	<p>Session 5.3</p> <p>Chair: Jordi Molas Gallart.</p> <p>206. Towards plural 'mappings' of research for Sustainable Development Goals (SDGs) - Ismael Rafols, Ed Noyons, Hugo Confraria & Tommaso Ciarli.</p> <p>49. Understanding the Social Impact of Science, Technology and Innovation Policies: Towards a meta-analytical approach - Francesco Gerli, Annalisa Monguzzi & Tommaso Tropeano.</p> <p>275. Open Science Policy: Evidence-Informing in the transition between deficit model and co-construction - Clifford Tatum.</p>			<p>Session 5.4</p> <p>Chair: Douglas K. R. Robinson.</p> <p>223. Embedded and performative foresight for STI policies - Matthias Weber, Kerstin Cuhls, Attila Havas & Ahti Salo.</p> <p>68. Exploring Second-Order Learning from the Covid-19 Pandemic in the Transformative Innovation Policy Consortium - Paulina Terrazas & Alejandra Boni.</p> <p>Track reflections: Assessing and directing transformative change - what have we learned? What capacities are needed? And Where?</p>

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Track 6: Excellence in research and societal impact - an uneasy relationship?	<p>Session 6.1</p> <p>Chair: Siri Borlaug.</p> <p>140. How (and under what conditions) competitive funding to centers of excellence do affect changes in the authority sharing: The effects of a Regional Government funding program into the research objectives of university research centers - Manuel Pereira-Puga & Luis Sanz-Menéndez.</p> <p>38. Towards Science for Society: A multicriteria mapping study on university policies to enhance societal impact of Dutch academic research - Rosa Kuipers, Matthijs Janssen & Jarno Hoekman.</p> <p>152. University research valorisation: An organizational perspective - Aleksandar Avramovic, Romulo Pinheiro & Michael Asante.</p>			<p>Session 6.2</p> <p>Chair: Agnete Vabø.</p> <p>116. "I did not write it on the grant application": Unexpected societal impact - Julia Olmos-Peñuela & Inma Aleixos-Borrás.</p> <p>108. Transforming 'excellence': Definitions, applications and alternatives to excellence in the evaluation, management and measurement of research - Lisette Jong, Thomas Franssen & Stephen Pinfield.</p> <p>164. Centres of Excellence: science transformers pushing interdisciplinarity - Siri Borlaug, Liv Langfeldt & Gunnar Sivertsen.</p>					<p>Session 6.3</p> <p>Chair: Liv Langfeldt.</p> <p>175. The importance of science for the development of new PV technologies in European regions - Maria Tsouris & Ron Boschma.</p> <p>234. Barriers to recruitment to academic positions - Agnete Vabø, Ingvild Reymert, Siri Borlaug & Jens Jungblut.</p>
Track 7: Impact excellence and beyond: understanding complexity in analysing and assessing socio-technical impacts				<p>Session 7.1</p> <p>Chairs: Peter Biegelbauer & Michael Dinges.</p> <p>255. The systemic turn in innovation policy and complexity matter evaluation - Claus Seibt.</p> <p>37. Capturing the system-level effects of innovation policy: the evaluation of publicly funded R&D and innovation projects in Swedish SMEs - Mart Laatsit, Åsa Lindholm Dahlstrand & Magnus Nilsson.</p> <p>260. Transition Pathways in Horizon Europe R&I Partnership Proposals - Susanne Meyer, Michael Dinges & Katharina Berger.</p> <p>137. Orientating Transformation Related Innovation Activities Through Impact Assessment - Peter Biegelbauer, Doris Wilhelmer & Manfred Kofranek.</p>		<p>Session 7.2</p> <p>Chairs: Kirsi Hyttinen & Mika Nieminen.</p> <p>9. A systemic evaluation framework of tangible and intangible shared value creation in clusters - Stephanie Francis Grimbert & Jon Mikel Zabala-Iturriagaogitia.</p> <p>26. A participatory approach to tracking system transformation in clusters and innovation ecosystems – evolving practice in Sweden's Vinnväxt programme - Emily Wise, Moa Eklund, Madeline Smith & James Wilson.</p> <p>81. Market Services Innovations Networks (MSINs): enriching the network lineage in innovation studies - Benoit Desmarcheller, Faridah Djellal, Camal Gallouj & Faiz Gallouj.</p> <p>244. Accelerating local ecosystem for sustainability: towards comprehensive and systemic impact evaluation - Kirsi Hyttinen & Mika Nieminen.</p>			<p>Session 7.3</p> <p>Chairs: Faiz Gallouj & Kirsi Hyttinen.</p> <p>69. Interdisciplinary research and the societal visibility of science: The advantages of spanning multiple and distant scientific fields - Pablo D'Este & Nicolás Robinson-García.</p> <p>80. Inclusion as Science and Innovation Policy Objective: Comparing Responsible Research and Innovation and Broader Impacts Frameworks - Helka Kalliomäki, Johanna Kalliokoski, Leena Kunttu, Sorin Dan & Jari Kuusisto.</p> <p>229. A national evaluation push towards increased societal impact: the Brazilian experience in valuing broader research outputs - Andre Brasil.</p>
Track 8: New indicators and approaches in STI Policy: beyond data and prediction to impacting the policy cycle			<p>Session 8.1</p> <p>Chair: Arho Suominen.</p> <p>12. On the relevance of decreasing returns on innovation performance - Javier Barbero, Jon Mikel Zabala-Iturriagaogitia & Jose Luis Zofio.</p> <p>29. R&D networks and their effects on heterogeneous modes of knowledge creation: Evidence from a spatial econometric perspective - Martina Neulandtner & Thomas Scherngell.</p> <p>73. DOES HOLDING MULTIPLE AFFILIATIONS AFFECT IMPACT? ANALYSING PUBLICATIONS, PATENTS AND MEDIA APPEARANCES OF DUTCH PROFESSORS - Paula Schipper, Jarno Hoekman, Alfredo Yegros-Yegros & Koen Frenken.</p>		<p>Session 8.2</p> <p>Chair: Arash Hajikhani.</p> <p>48. Integrating Innovative Innovation Indicators in the R&I Policy Life Cycle: A Conceptual Platform Model, Organizational Challenges and Implications - Knut Blind.</p> <p>125. A News Media-based Innovation Indicator for Technological Innovation Systems - Daniel Weiss & Fabian Nemeček.</p> <p>135. Expansion on companies NACE classification of economic activities: Utilization of Microsoft Academic Graph hierarchical topic modeling on companies' website content - Arash Hajikhani, Arho Suominen, Lukas Pukelis, Scott Cunningham & Cees van Beers.</p>			<p>Session 8.3</p> <p>Chair: Arho Suominen.</p> <p>277. Tentative Governance of Artificial Intelligence Regulation. Representing governance as a virtual network of documents - Philippe Laredo, Lionel Villard & Bilel Benbouzid.</p> <p>43. Recruiting personnel for AI related jobs - the Effects on Operating Revenue and Productivity - Asta Bäck, Arash Hajikhani, Angela Jäger, Torben Schubert & Arho Suominen.</p> <p>120. Evaluating Policy Mix Characteristics with Text-based Metrics: The Case of Electric Mobility - Qianqing Lindsay Mai, Asli Ates & Karoline Rogge.</p>	
Track 9: Public organisations for science and innovation, the same designs for new outcomes?		<p>Session 9.1</p> <p>Chair: Emanuela Reale, Arthur Moreira & Rodrigo Cevallos.</p> <p>60. A new trend of innovation organisation model? The case of the German Federal Agency for Disruptive Innovation (SPRIN-D) - Hendrik Berghäuser & Thorben Straehle.</p> <p>167. Legal and institutional design of innovation agencies: the effect on public-sector dynamic capabilities in Brazil and Sweden - Eduardo Spanó.</p> <p>111. Publicly funded organisations for accelerated low carbon innovation: A comparative case study of the ETI, UK and ARPA-E, US - Anna Watson.</p> <p>170. Boundary Organisation Typology Discussion - Derry Keohane & Kate Barker.</p> <p>61. Risk governance in the implementation of innovation policies - Seweryn Krupnik, Mercedes Bleda & Anna Szczucka.</p> <p>86. The impact of Public Administration traditions on transition tasks: an empirical analysis of civil servants' perceptions - Rik Braams, Joeri Wesseling, Marko Hekkert & Albert Meijer.</p> <p>15. Can Universities Become Strategizing Organizations? Towards a Conceptual Framework - Fee Friedrich, Hendrik Berghäuser, Henning Kroll & Torben Schubert.</p>	<p>Session 9.2</p> <p>Chairs: Emanuela Reale, Arthur Moreira & Rodrigo Cevallos.</p> <p>Round table</p>						
Track 10: Public research funding and its implications for science, innovation and society	<p>Session 10.1 - Funding configurations and competition</p> <p>Chair: Benedetto Lepori.</p> <p>Introduction to the handbook project and cross-curing themes - Benedetto Lepori, Ben Jongbloed & Diana Hicks.</p> <p>56. Reframing study of research funding: From single instruments to funding configurations - Duncan A. Thomas, Irene Ramos-Vielba & Kaare Aagaard.</p> <p>113. The Construction of Competition in Public Research Funding Systems - Peter Edlund, Stefan Arora-Jonsson & Nils Brunsson.</p> <p>153. EU Framework Programs as competition instruments in higher education - Marco Cavallaro.</p>	<p>Session 10.2 - Emerging countries</p> <p>Chair: Diana Hicks.</p> <p>70. Public Funding of Research in Emerging Economies: In Search of a Rationale Amongst Conflicting Priorities - Juan Rogers.</p> <p>150. Research Funding in Asian Latecomer Countries: Developmental Legacy and Dilemmas - So Young Kim.</p> <p>139. The public funding model of Korea: the balance of funding modes and the link between mission and funding - Jimwon Kang.</p> <p>169. Effectiveness and Efficacy of R&D subsidies Estimating Treatment Effect – Philippe Boeing & Bettina Peters.</p>	<p>Session 10.3- Funding policies</p> <p>Chair: Diana Hicks.</p> <p>20. Different contexts, different research funding policies - Olivier Bégin-Caolette, Émanuelle Maltais & Silvia Mirlene Nakano Koga.</p> <p>211. Public research funding beyond the nation state: the case of the European Union - Inga Ulricane.</p> <p>183. National Science and Innovation Policy: between Curiosity, Market, and Mission - Aixa Aleman-Diaz, Signe Vikkelsø, Jane Bjørn Vedel, Alan Irwin, Julia Kirch Kirkegaard, Xiaobai Shen & Xuan Li.</p>		<p>Session 10.4 - Funding instruments</p> <p>Chair: Ben Jongbloed.</p> <p>22. Size matters! On the implications of increased funding sizes - Mads P. Sørensen, Carter Bloch, Emil Bargmann Madsen & Alexander Kladakis.</p> <p>109. The Diversity of Policy Programs as Instruments for Governmental R&D Funding - Emanuela Reale, Magnus Gulbrandsen & Thomas Scherngell.</p> <p>168. Funding biomedical research for specific social outcomes: What can we learn from neglected diseases? - Ohid Yaqub & Josie Coburn.</p>	<p>Session 10.5 - Funding research organizations I</p> <p>Chair: Benedetto Lepori.</p> <p>79. Effects of funding on the stratification of universities. Comparing Europe with the United States - Ariette Jappe & Thomas Heinze.</p> <p>101. Public research funding and Public Research Organisations (PROs) - Luis Sanz-Menendez & Laura Cruz-Castro.</p> <p>254. Impacts of performance-based research funding to internal incentivization of universities - Jussi Kivistö & Charles Mathies.</p>	<p>Session 10.6 - Funding research organizations II</p> <p>Chair: Diana Hicks.</p> <p>282. Research Funding Disparities in US Institutions - Maryann Feldman & Allison Lowe-Reed.</p> <p>160. Performance-based research funding and its impacts on performance - Gunnar Sivertsen.</p> <p>281. The Impact of Federal R&D Funding Across the Academy - Alexandra Graddy-Reed & Lauren Lanahan.</p>		<p>Session 10.7 - Funding researchers</p> <p>Chair: Ben Jongbloed.</p> <p>100. Gender and Underrepresented Minorities Differences in Research Funding - Laura Cruz-Castro, Donna K. Ginther & Luis Sanz-Menéndez.</p> <p>208. Research Funding and Careers: Individual and Contextual Factors - Julia Melkers.</p> <p>Responses of researchers to their funding situations – Grit Laudel.</p>

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Track 11: Structures and effects of corporate publishing: beyond the public science-push			<p>Session 11.1</p> <p>Chair: Torben Schubert.</p> <p>6. Corporate Publishing by the Largest European R&D Investors: Effects on Productivity and Market Capitalization - Torben Schubert, Knut Blind, Bastian Krieger & Maikel Pellens.</p> <p>35. The Interplay between Publishing, Patenting and Standardization - Knut Blind, Bastian Krieger & Maikel Pellens.</p> <p>65. The real effects of financial markets on scientific disclosure: Evidence from a quasi-natural experiment - Stefano Baruffaldi, Markus Simeth & David Wehrheim.</p> <p>165. Geography of authorship: determinants of authorship in global team science - Jarno Hoekman & Bastian Rake.</p>							
Track 12: Agility, tentativeness and resilience: how to govern innovation systems and STI policies in times of crises and transformative change?				<p>Session 12.1</p> <p>Chair: Matthias Weber</p> <p>103. Agility in Innovation Policy Design. An analysis of the innovation-oriented instrument mix for SMEs in Germany - Martina Kovac.</p> <p>194. Demand-sided innovation policy in the German energy transition: How agile was the governance of green power diffusion? - Carsten Schwäbe.</p> <p>33. Double uncertainty: an exploration of organizational approach to implementing agile regulation in an uncertain political climate - Jessica van Thiel.</p>		<p>Session 12.2</p> <p>Chair: Carsten Dreher.</p> <p>141. Agility in R&I Policy - how much is too much? - Doris Schartinger, Matthias Weber, Peter Biegelbauer & Christoph Brodrik.</p> <p>235. Post Covid mobility – towards a social tipping point for sustainable mobility - Floor Alkemade.</p> <p>51. Sociotechnical expectations in the government’s early response to the COVID-19 crisis: Assessing the hype disappointment cycle of contact tracing apps in Colombia - Juan Pablo Centeno & Mónica Paola Vásquez.</p>		<p>Session 12.3</p> <p>Chair: Matthias Weber.</p> <p>248. Agile R&I Policy: Better coping with disruptive and transformative change? - Carsten Dreher & Matthias Weber.</p> <p>Round table</p>		
Track 13: Geography and policy complexity in normative innovation policy thinking: what are the issues and how should they be tackled?										
	<p>Session 13.1</p> <p>Chair: Robert Hassink.</p> <p>171. Geographical perspectives on scale in directional innovation policy - Stine Madsen.</p> <p>240. Towards a problem-oriented regional industrial policy: Possibilities for public intervention in framing, valuation and market creation - Kieron Flanagan, Elvira Uyarrá & Iris Wanzenböck.</p>	<p>Session 13.2</p> <p>Chair: Iris Wanzenböck.</p> <p>130. Policy Experimentation: Contending Placed- Based Approaches to Regional Innovation - Bruce Wilson & Sebastian Fastenrath.</p> <p>176. When Regulatory Power and Industrial-Policy Ambitions Collide: the “Brussels Effect”, Lead-Market Formation, and Innovation - Nicholas Martin.</p> <p>224. Place-based approaches for challenge-oriented policy: which is the role for smart specialisation strategies? - Ederne Magro, Kieron Flanagan & Elvira Uyarrá.</p> <p>18. Getting to Denmark: The Dialectic of Governance & Development in the European Periphery - Pedro Marques & Kevin Morgan.</p>		<p>Session 13.3</p> <p>Chair: Elvira Uyarrá.</p> <p>85. Regional knowledge production: the role of institutions in shaping scientific developments - Tim Willemsse & Gaston Heimeriks.</p> <p>27. SME modes of innovation in European Catching-up Countries: The >>>> impact of STI and DUI drivers on technological innovation >>>> - Jose Hervas-Oliver, Davide Parrilli & Francisca Semper-Ripoll.</p> <p>186. Knowledge development on Renewable Energy Technologies in European regions: the case of photovoltaics - Maria Tsouri, Jens Hanson & Artur Santoalha.</p>		<p>Session 13.4</p> <p>Chair: Kevin Morgan.</p> <p>47. Small wins for grand challenges: A bottom-up governance approach to innovation policy - Sanne Bours, Iris Wanzenböck & Koen Frenken.</p> <p>107. Having both the chicken and the egg: multi-scalar policy challenges in launching hydrogen high-speed ferries in Western Norway - Tuukka Mäkitie & Markus Steen.</p> <p>122. Comparing transformative experiments through varied representations of space - Matias Ramirez, Imogen Wade & Alejandra Boni.</p>			<p>Session 13.5</p> <p>Chair: Kieron Flanagan.</p> <p>159. Towards Mission-Oriented Innovation Districts? - Lars Coenen, Sebastian Fastenrath, Darren Sharp, Sam Tavassoli, Bruce Wilson, Leo Goedegebuure & Rob Raven.</p> <p>251. How do shifts in scalar orientation of policies influence technology legitimacy? Norwegian climate and energy policy and technologies for decarbonization - Teis Hansen, Jens Hanson, Tuukka Mäkitie, Håkon Normann & Markus Steen.</p> <p>30. One nation, divergent dynamics of cities and the uneven processes towards sustainable transitions: The cases of bio-diesel innovation systems of Shenzhen and Shanghai in China - Chao-Chen Chung, Ziji Wei, Yixuan Wang, Lina Liu & Yapeng Zhang.</p>	
Track 14: STI Policies in the global south: broadening the scope?				<p>Session 14.1 - Learning</p> <p>Chair: Katharina Schiller.</p> <p>94. Innovation Policies with Transformative Potential in the Global South: The case of the Social Appropriation Policy in Colombia - Gonzalo Ordóñez-Matamoros, Juan Pablo Centeno, Ernesto Andrade-Sastoque & Mario Pinzón-Camargo.</p> <p>129. The Covid-19 pandemic and its effects on grand challenges research in the Global South - Paulina Terrazas & Alejandra Boni.</p> <p>180. The use of boundary objects for learning and appropriating of new methods for transitions to sustainability in the global south - Matias Ramirez, Paloma Bernal-Hernandez & Claudia E Obando Rodriguez.</p> <p>261. TOWARDS THE CONSTRUCTION OF A NEW “MINDSET” IN POLITICAL INTERVENTION FOR THE DEVELOPMENT OF INNOVATION SYSTEMS IN LATIN AMERICA - Rafael Palacios & María del Pilar Escott Mota.</p>	<p>Session 14.2 - New aspects on policy-making</p> <p>Chair: Bipashyee Ghosh.</p> <p>82. How transformative is the Climate-Smart Agriculture policy mix in Costa Rica? Early insights through the perspective of policy mix building blocks - Maria Rodriguez Barillas, Laurens Klerkx & Marijn Poortvliet.</p> <p>98. The role of politics in transformative STI policies in the Global South: The case of Colombia - Gonzalo Ordóñez-Matamoros, Juan Pablo Centeno, Mario Pinzón-Camargo & Ernesto Andrade Sastoque.</p> <p>127. HOW ARE NATIONAL AND SECTORAL INNOVATION SYSTEMS RELATED? A view from innovation financing in the Colombian power generation sector - Jaime Sierra.</p>			<p>Session 14.3 - International influence</p> <p>Chair: Suci Lestari Yuana.</p> <p>121. International Centers of Excellence in Chile: Unpacking cross-border technology transfer channels in the face of uneven absorptive capacities - Marcia Varela & Jose Guimon.</p> <p>157. Countries research priorities in relation to the Sustainable Development Goals - Hugo Confraria, Tommaso Ciarli & Ed Noyons.</p> <p>205. Technology transfer for transformative change? Systemic barriers to innovation in the global south - Markus Bugge, Cathrine Edelhard Tømte & Richard Berg.</p>	<p>Session 14.4 - Role and influence of institutions</p> <p>Chair: Sumit Kumar.</p> <p>41. Technology Transfer Hub program in Chile: challenges and future outlook - Marcia Varela.</p> <p>178. National innovative capacity in the Andean Community: the unique role of public funding and university R&D spending - Christian Chimbo & Joaquin M. Azagra-Caro.</p> <p>227. Changing the landscape: The role of aid agencies in Afghanistan’s energy transitions - Abdullah Fahimi, Paul Upham & Gesa Pfiltich.</p> <p>233. Politics of Futures in Urban Mobility Transitions: A Multi-Criteria Mapping Analysis of Online Taxis in Indonesia - Suci Lestari Yuana, Frans Sengers, Wouter Boon, Maarten Hajer, Rob Raven & Bipashyee Ghosh.</p>	
Track 15: Systems approaches for understanding and assessing the impact of directionality in challenge-led policy										
	<p>Session 15.1</p> <p>Chair: Anna Bergek.</p> <p>78. Development and application of the Mission-oriented Innovation Systems (MIS) approach - Joeri Wesseling.</p> <p>99. Mission-oriented Innovation Systems Dynamics in the Circular Economy - Remi Elzinga, Simona O. Negro, Matthijs J. Janssen & Marko P. Hekkert.</p> <p>199. Mission-oriented innovation systems, the debate on agile governance and the need for an evolutionary theory of innovation policy - Carsten Schwäbe.</p>		<p>Session 15.2</p> <p>Cancelled</p>	<p>Session 15.3</p> <p>Chair: Matthijs Janssen.</p> <p>32. Towards a Methodology for Co-Creating Transformative Policy Mixes - Jakob Wachsmuth, Thomas Jackwerth-Rice, Sarah Seus & Philine Warnke. .</p> <p>253. Conceptualising and assessing the role of directionality in challenge-led policies: the impact of challenge-led policies on decarbonising the cement industry - Thea Jung.</p> <p>270. Innovation Policy at the Plant Level: How Entrepreneurial Actors Capitalize on Policy Mixes to Realize Demonstration Projects - Seyedesmaei Mousavi, Hans Hellsmark & Patrik Soderholm.</p>	<p>Session 15.4</p> <p>Chair: Joeri Wesseling.</p> <p>214. Typologizing transformation patterns in different socio-technical systems – A scheme for analysis - Johan Miörner, Christian Binz & Lea Fuenschilding.</p> <p>202. Practices in sustainability transitions: Review, reflections, and research directions - Elisabeth Marie Cassidy Svennevik.</p> <p>24. A new green revolution or agribusiness as usual? Analyzing vision alignment to better understand agri-food system transitions - Niko Wojtynia, Jerry van Dijk, Marjolein Derks, Peter Groot Koerkamp & Marko Hekkert.</p>		<p>Session 15.5</p> <p>Chair: Anna Bergek.</p> <p>50. The role of directionality and its challenges for the acceleration of sustainability transitions by intermediaries - Daniel Hirschmann, Daniel Feser & Simon Johannes Winkler-Portmann.</p> <p>204. The role of boundary infrastructure in assembling the governance of directionality in mission-oriented policy: insights from Dutch agricultural mission policy - Stephanie Begemann & Laurens Klerkx.</p> <p>146. EXPLORING DIRECTIONALITY PATTERNS IN MISSION-ORIENTED INNOVATION SYSTEMS: EVIDENCE FROM TWITTER DATA ON SYSTEMIC INTERMEDIARIES - Babajide Owoyele & Arash Hajikhani.</p>	<p>Session 15.6</p> <p>Chair: Matthijs Janssen.</p> <p>181. Implementing Challenge-Led Policies – the Role of Public Sector Organisations in Coordinating Innovation Systems and Shaping Directionality - Andreas Kopp.</p> <p>112. Living up to the promise? The implementation of a mission-oriented approach in the the Dutch Topsector Energy - Isabelle van Elzakker, Vincent Baarslag, Laurens Hessels & Jasper Deuten.</p> <p>247. Integrating policy instruments for fast-tracking environmental innovation: Lessons learned from the Norwegian Pilot-E programme - Lisa Græslie and Markus Steen.</p> <p>105. Aligning directional policies with collective learning processes: developments in the Mobility of the Future programme since 2012 - Jakob Kofler, Harald Wieser & Peter Kaufmann.</p>		

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Track 16: IPR and innovation policy for sustainability transitions	<p>Session 16.1</p> <p>Chair: Martina Kovac.</p> <p>184. The Influence of Policy Mixes on Business Model Innovation for Sustainability - Mina Rezaeian, Jonatan Pinkse & John Rigby.</p> <p>257. Sustainability Transition in Manufacturing: The Role of Incumbents and Newcomers and how they use IPR to Contribute to Sustainable Manufacturing - Elisabeth Eppinger, Akriti Jain, Pratheeba Vimalnath, Ekatarina Kushnir, Anjula Gurtoo & Frank Tietze.</p> <p>189. How can a social entrepreneurial organisation mitigate barriers for collaboration and nurture responsible innovations in the food value chain? - Ellen-Marie Forsberg, Nhat Strøm-Andersen, Markus Bugge, Aina Elstad Stensgård & Andreas Brekke.</p>				<p>Session 16.2</p> <p>Chair: Carsten Dreher.</p> <p>264. An empirical investigation of intellectual property for sustainability and its relevance to IPR policy - Pratheeba Vimalnath, Frank Tietze, Akriti Jain, Anjula Gurtoo & Elisabeth Eppinger.</p> <p>185. The "valley of death" in the EU renewable energy sector: an investigation of possible policy solutions - Alessandro Muscio, Felice Simonelli & Hien Vu.</p> <p>207. Reimagining the biofoundry in the new regional bio-economy: Framework and policy for accessible and responsible translational research - Andrew Watkins, Philip Shapira, Claire Holland & Adam McCarthy.</p>		<p>Session 16.3</p> <p>Chair: Elisabeth Eppinger.</p> <p>218. Green and Digital "twin" transitions: structuration process and evolution - Carlos Montalvo, Kristina Karanikolova & Fernando J. Diaz Lopez.</p> <p>259. Exploring pathways to deep decarbonization: policy coordination and governance in renewable electrification - Hilde Nykamp, Jakoba Sramil Gonzalez & Allan Dahl Andersen.</p>		
Track 17: The use of participatory methods for transformative innovation engagements			<p>Session 17.1 - Policy and governance</p> <p>Chair: Bipashyee Ghosh.</p> <p>237. Review of Industrial Transition of Andalusia - Totti Könnölä, Héloïse Berkowitz & Dimitrios Pontikakis.</p> <p>212. Enabling transformative policymaking through problem-based learning - Tatjana Reiber & Anna Schwachula.</p> <p>173. Learning for transition: the case of the Mobile City Experiment program - Els Beukers & Luca Bertolini.</p> <p>222. Building knowledge services for and with policy makers – not a cookbook - Waldo Galle & Cristian Matti.</p>			<p>Session 17.2 - Methods</p> <p>Chair: Alejandra Boni.</p> <p>246. Engaging the Public in Transformative Innovation Policy: Learnings from Applying Participatory Methods in Regional Dialogues for the German Hightech Strategy - Max Priebe, Andreas Röß & Simone Kimpeler.</p> <p>131. Deliberating sustainable needs satisfaction via Zoom: Co-creation of Eco-social Policies through Citizen Forums - Johanna Alksn Olsson, Jayeon Lindellee & Max Koch.</p> <p>187. Expanding Horizons: organizing social labs to create institutional entrepreneurial publics in view of Responsible Research and Innovation - Joshua B. Cohen, Anne Loeber, Ilse Marschalek, Vincent Blok, Michael Bernstein, Raúl Tabarés Gutiérrez, Robert Gianni & Erich Griessler.</p> <p>5. Place-based Citizen Science as an Innovative Participatory Approach for Watershed Management: Perspectives from Asia - Zeeda Fatimah, Sara MacBride-Stewart & Affan Nasaruddin.</p>			<p>Session 17.3 - Hybrid round table</p> <p>Chair: Alejandra Boni.</p> <p>34. Expanding STI Policies: Leveraging multiplicity, systemic-design knowledge and real-world experimentation towards regenerative transformations - Haley Fitzpatrick & Tobias Luthe.</p> <p>36. Experimenting with transdisciplinary governance for co-creation of local climate change adaption measures - Carolin Bauer, Rick Hölsgens & Christine Linnart.</p> <p>154. Merging Knowledge: towards a collectively generated knowledge of fuel poverty - Elena Escribano Alonso & Pedro José Cabrera Cabrera.</p>
Track 18: Transformative missions and STI policies	<p>Session 18.1</p> <p>Chair: Jakob Edler.</p> <p>193. New Mission-Oriented R&I Policies and the Creativity of the Market – an Attempt of Reconciliation - Uwe Cantner.</p> <p>216. The very nature of transformational STI (TransTI) policies, their theoretical and conceptual rationale and intervention logics - Jakob Edler, Mireille Matt, Wolfgang Polt & Matthias Weber.</p> <p>53. Missions as a boundary object: Opportunities for coordination across theoretical perspectives, policy domains, policy communities, and stakeholder interests - Matthijs Janssen, Joeri Wesseling, Jonas Colen Ladeia Torrens, Iris Wanzenböck, Caetano Penna, Laurens Klerkx & Matthias Weber.</p>	<p>Session 18.2</p> <p>Chair: Wolfgang Polt.</p> <p>156. "Transformative" Mission-Oriented Policies: a case study of Vinnova and new design and implementation framework - Caetano Penna, Johan Schot, Diana Velasco & Jordi Molas Gallart.</p> <p>138. Mission-oriented innovation in practice - Dan Hill.</p> <p>104. From mission definition to implementation: Conceptualizing Mission-oriented policies as a multi-stage translation process - Florian Wittmann, Miriam Hufnagl, Florian Roth, Merve Yorulmaz, Stephanie Daimer & Ralf Lindner.</p>	<p>Session 18.3</p> <p>Chair: Matthias Weber.</p> <p>91. Public Leadership in the Governance of Green Transitions - Susana Borrás.</p> <p>118. Programming Missions: Early insights on strategic intelligence needs to steer research and innovation towards transformative change - Douglas Robinson & Mireille Matt.</p> <p>226. Implementing strategic feedback loops for learning in transformative R&I programmes - Robert Hawlik, Susanne Meyer & Christoph Brodnik.</p>			<p>Session 18.4</p> <p>Chair: Jakob Edler.</p> <p>11. Transformative missions in healthcare – the case of preventive healthcare in the Netherlands - Wouter Boon.</p> <p>72. Transformative innovation policy in-the-making: How directionality has emerged for mobility-as-a-service in Finland - Paula Kivimaa & Jonas Torrens.</p> <p>276. Challenges and opportunities of mission-oriented innovation policies to realise transformative agenda: general principles and application to the case of the fight against climate change - Philippe Larrue.</p>		<p>Session 18.5</p> <p>Chair: Mireille Matt.</p> <p>278. Withney on the moon? The political economy of mission-oriented policies in Europe - Rainer Kattel.</p> <p>239. Coexistence of transformative mission and incumbent legacy and their impact – Korean Green Growth initiative - Soohong Eum.</p> <p>145. How to set up transformative missions in the field of mobility? The former Dutch mobility transition as a case study. - Edgar Salas-Gironés.</p>	
Track 19: International relations of science, technology and innovation (policies)			<p>Session 19.1</p> <p>Chair: Ewert Aukes.</p> <p>Round table</p> <p>128. Legal Pluralism in Science Diplomacy - The case of Colombia 2012 - 2016 - Maria Villaveces.</p> <p>97. Creating an interaction space for science diplomacy: meta-governance principles in action - Ewert Aukes, Gonzalo Ordonez-Matamoros & Stefan Kuhlmann.</p> <p>155. Informal networks of innovation policy makers in the EU28: a study of structures and proximities - Mart Laatsit.</p> <p>213. A cross-country configurational approach to academic international mobility: exploring mobility effects on academics' career progression in EU countries - Ana Maria Bojica, Julia Olmos-Peñuela & Joaquin Alegre-Vidal.</p>				<p>Session 19.2</p> <p>Chair: Ewert Aukes.</p> <p>Round table</p> <p>44. Technological Sovereignty as an Emerging Frame for Innovation Policy - Defining Rationales, Means and Ends - Jakob Edler, Knut Blind, Rainer Frietsch, Henning Kroll & Torben Schubert.</p> <p>124. Measuring EU technology sovereignty on emerging technologies. New tools in times of increasing global uncertainty - Aureliano da Ponte & Gonzalo León.</p> <p>136. Free trade, protectionism, and the leadership of the United States in the information and communication technology sector - Chao-Chen Chung.</p>		
Track 20: Innovation Journey in focus, the context in mind - recent approaches		<p>Session 20.1</p> <p>Chairs: Lasse Loft & Michael Klingler.</p> <p>192. How technology spillovers contribute to clean energy innovation? - Sergey Kolesnikov, Anna Goldstein, Gabriel Chan, Venkatesh Narayanamurti & Laura Diaz Anadon.</p> <p>219. Innovation journeys & transformative capacities: insights from future-proofing food systems across Europe - Petra Wagner & Kris Kok.</p> <p>220. Reconceptualising the innovation journeys perspective - Peter Stegmaier & Ewert Aukes.</p> <p>221. Looking back to move forward: bringing niche's innovation journeys back into the Multi-Level Perspective - Ewert Aukes & Peter Stegmaier.</p>							

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Track 21: Relations research industry and research-policy: new perspectives			Session 21.1 Chair: Silje Maria Tellmann. 14. Boundary spanning collaboration in R&D projects: Key Enabling Technologies and Missions as alleviators of proximity effects - Matthijs Janssen & Milad Abbasiharofteh. 45. Graduate Students as Boundary Spanners: How Academic Engagement can influence Firm Innovation - Karin Berg & Maureen McKelvey. 88. Graduate start-ups as knowledge spillover: the interplay between the university entrepreneurial ecosystem in the regional innovation context - Mabel Sanchez Barrioluengo, Chiara Marzocchi & Fumi Kitagawa.				Session 21.2 Chair: Maria Tsouri. 46. Does Academic Inbreeding Affect Scientific Success? - Giovanna Capponi and Koen Frenken. 196. Open for evidence: broad and deep patterns of research use among policymakers - Magnus Gulbrandsen, Erlend Osland Simensen & Taran Thune. 263. What's in a contract? - Silje Maria Tellmann, Magnus Gulbrandsen & Gry Cecilie Lunder Høiland.		
Track 22: Science and innovation studies: new perspectives		Session 22.1 Chair: Fulvio Castellacci. 76. What Happens in Innovation Systems: Activities and Functions - Charles Edquist & Mart Laatsit. 95. An ecosystemic model for the technological development of Social Entrepreneurship: The case of European Social Innovation Clusters - Francesco Gerli, Veronica Chiodo & Mario Calderini. 143. Regional innovation policy approaches in Spain: is the universe expanding or contracting? - José Guimón & Juan Carlos Salazar-Elena. 182. Place-based and firm-based dynamics: what relationships - Philippe Laredo, Patricia Laurens & Antoine Schoen.						Session 22.2 Chair: Philippe Laredo. 71. Science Systems: A framework for understanding knowledge dynamics - Martijn Wiarda, Gaston Heimeriks & Neelke Doorn. 230. Innovation and social welfare: A new research agenda - Fulvio Castellacci.	
Track 23: Knowledge co-creation to address grand societal challenges: new policy approaches					Session 23.1 Chair: José Guimon. Round table Speakers: Carolin Paunov Sebastian Pfotenhauer Susana Borrás				