

# PARALLEL SESSION SCHEDULE

## NTNU Sustainability Science Conference 2017 – *Transitions to sustainable systems*



**\*All presenters should bring their presentation on a USB stick to the presentation room 10 minutes before the scheduled session start\***

**Wednesday, 18 October**

**Session 1**

**15:00-17:00**

**Track A Institutions, governance & ethics**  
**Abstract session 1 – *Resource management and sustainability***

Room: TBA

Moderator: TBA

15 minutes per presenter = 12-minute presentations + 3 minutes of questions

|             |   |
|-------------|---|
| 15:00-15:05 | Session Introduction  |
| 15:05-15:20 | <b>August Wierling and Valeria Jana Schwanitz</b><br>An analytic narrative for sustainable development derived from multidimensional, cross-country data analysis                                   |
| 15:20-15:35 | <b>Jennifer Bailey, Sigrid Sandve Eggereide and Kristian Ellingard</b><br>Climate Change, Aquaculture and Conflicts of Interests in Northern Norway: Research Results and Comparative Methodologies |
| 15:35-15:50 | <b>Erika Palmer and Dana Ilmari Polojärvi</b><br>On the Frontlines of Climate Change: Native Arctic Communities and the Systemic Forces of Sustainability Intersections                             |
| 15:50-16:05 | <b>Frode Flemsæter and Svein Frisvoll</b><br>Mare Nullius? The moral seascapes of marine bioprospecting. A discourse analysis   |
| 16:05-16:20 | <b>Lillian Hansen</b><br>Empowerment and change in socio-technical transitions: The case of sustainable salmon feed development in Norway   |
| 16:20-16:35 | <b>Hilde Bjørkhaug and Heidi Vinge</b><br>Discourses on farmland management and protection. Saving land for future generations or optimize present societal needs?                                  |
| 16:35-16:50 | <b>Jostein Brobakk, Gerald Schwarz, Hilde Bjørkhaug and Alexander K Thanem</b><br>Understanding policy barriers for a bioeconomic transition: Institutional settings and stakeholder positions      |
| 16:50-17:00 | Joint questions and discussion  |

| <b>Track B Smart &amp; sustainable city services</b><br><b>Abstract session 1 – Mobility</b><br>Room: TBA<br>Moderator: TBA<br>15 minutes per presenter = 12-minute presentations + 3 minutes of questions  |   |
|---|---|
| 15:00-15:05   | Session introduction  |
| 15:05-15:20   | <b>Pia Laborgne, Monika Heyder, Joanna Skok, Ralf Trunko and Brendan McGill</b><br>“Smart” participation? A use case in electric bike infrastructure planning   |
| 15:20-15:35   | <b>Ray Pritchard and Dominik Bucher</b><br>Targeted sensing technology for bicycle research   |
| 15:35-15:50   | <b>Tom Erik Julsrud, Cyriac George and Eivin Farstad</b><br>Car sharing and pathways to sustainable mobility: insights from a qualitative study of early users  |
| 15:50-16:05   | <b>Maximilian Franz Böhm, Eirin Ryeng and Torbjørn Haugen</b><br>Wi-Fi and Bluetooth based sensors for pedestrian detection in urban areas  |
| 16:05-16:20   | <b>Lin Ye, Lizhen Huang, Johan Wåhlin, Kang Gui, Junfeng Ge and Bian Yang</b><br>Road ice intelligence with multi-function sensors for better winter mobility   |
| 16:20-16:35   | <b>Shanshan Jiang, Marit Natvig and Erlend Stav</b><br>Semantic Enabled Federated Catalogue Services for Open Data  |
| 16:35-17:00   | Joint questions and discussion  |
| <b>Track C Biodiversity &amp; ecosystem services</b><br><b>Abstract session 1– Distribution of diversity and ecosystem services</b><br>Room: TBA<br>Moderator: TBA<br>15 minutes per presenter = 12-minute presentations + 3 minutes of questions |   |
| 15:00-15:05   | Session introduction  |
| 15:05-15:30   | <b>Kris Verheyen, Alicia Valdés, Jonathan Lenoir, Pieter De Frenne, Guillaume Decocq and the SmallForest-consortium</b><br>Small but strong: ancient forest patches deliver high levels of ecosystem services in agricultural landscapes      |
| 15:30-15:45   | <b>Eveliina Kallioniemi and Knut Anders Hovstad</b><br>Methods for assessing biodiversity - example of species distribution modelling on Norwegian butterflies  |
| 15:45-16:00   | <b>Bram Van Moorter, Ilkka Kivimäki, Robin Devooght, Manuela Panzacchi and Marco Saerens</b><br>Measuring simultaneously habitat loss and fragmentation due to infrastructures: a novel habitat functionality metric                          |
| 16:00-16:15   | <b>Yajie Liu, Jennifer Bailey and Jan Grimsrud Davidson</b><br>Ecosystem services of sea trout populations and the values of recreational fishing in Norway   |
| 16:15-16:30   | <b>Gary Watmough, Cheryl Palm, Clare Sullivan and Jens Christian-Svenning</b><br>Understanding socio-ecological systems: Coupling population and satellite remotely sensed environmental data to increase human-natural systems understanding |
| 16:30-16:45   | <b>Asit Kumar Roy and Debajit Datta</b><br>Evaluating agroecosystem sustainability of interdunal wetlands of littoral West Bengal, India  |
| 16:45-17:00   | <b>Debajit Datta</b><br>Stakeholder based collaborative planning towards sustainable wetland management in Ichamati floodplains of West Bengal, India   |

| <b>Track D Business models for sustainability</b><br><b>Abstract session 1 – <i>Transitioning business models</i></b><br>Room: TBA<br>Moderator: TBA<br>20 minutes per presenter = 15-minute presentations + 5 minutes of questions |   |
|---|---|
| 15:00-15:05   | Session Introduction  |
| 15:05-15:25   | <b>Fritz Balkau and Annik Magerholm Fet</b><br>Challenges in the transition to sustainable business models  |
| 15:25-15:45   | <b>Anne Toppinen, Miska Sauru, Minna Autio and Sami Berghäll</b><br>Business models of Nordic wooden multistory construction on the road to bioeconomy      |
| 15:45-16:05   | <b>Arnoud van Waes, Rob Raven, Jacco Farla and Jeroen de Jong</b><br>Business models for socio-technical transitions: the case of smart cycling innovations |
| 16:05-16:25   | <b>Thomas B. Long</b><br>Business models for sustainability and their role in helping to manage supply chain greenhouse gas emissions                       |
| 16:25-16:45   | <b>Lucia Mortensen</b><br>How Ports' governance of strategic networks can generate sustainable business models based on industrial symbiosis                |
| 16:45-17:00   | Joint questions and discussion  |

## Thursday, 19 October

### Session 2

09:45-11:45

#### Track A Institutions, governance & ethics Abstract session 2A – CSR, RRI, Education

Room: TBA

Moderator: TBA

15 minutes per presenter = 12-minute presentations + 3 minutes of questions

|   |   |
|---|---|
| 09:45-09:50   | Session introduction  |
| 09:50-10:05   | <b>Kaisu Sammalisto, Rodrigo Lozano and Robin Vonhaartman</b><br>Working with sustainability: institutionalisation perceptions at the University of Gävle   |
| 10:05-10:20   | <b>Bente Johnsen Rygg and Gunnar Yttri</b><br>Social acceptance of renewable energy – does ownership matter?  |
| 10:20-10:35   | <b>Siri Carson</b><br>RRI and CSR – a conceptual analysis based on the example of Atlantic salmon farming   |
| 10:35-10:50   | <b>Sam A. Kasimba</b><br>Linking Sustainable Development and Corporate Social Responsibility Initiatives: Experiences from Large-Scale Gold Mining and Local Communities in Obuasi, Ghana   |
| 10:50-11:05   | <b>Thomas B. Long</b><br>Sustainable entrepreneurship and responsible innovation: The role of investors in managing socio-ethical issues  |
| 11:05-11:20   | <b>Sophia Efstathiou, Marius Korsnes and Laura Sommer</b><br>Sustainability Communication: Some tools from improvisation practices  |
| 11:20-11:35   | <b>Sebastian Kreuz and Eugenia Ploss</b><br>Why, and how will it look like? Evaluating answers of energy experts concerning the German Energiewende and its implication for communication   |
| 11:35-11:45   | Joint questions and discussion  |
| <h4>Track A Institutions, governance &amp; ethics</h4> <h4>Abstract session 2B – Energy transition</h4> <p style="text-align: center;">Room: TBA</p> <p style="text-align: center;">Moderator: TBA</p> <p style="text-align: center;">15 minutes per presenter = 12-minute presentations + 3 minutes of questions</p> |   |
| 09:45-09:50   | Session introduction  |
| 09:50-10:05   | <b>Nick Pruditsch</b><br>Long-term Energy Governance for Sustainable Development. Energy Research from a Political Science Perspective  |
| 10:05-10:20   | <b>Anna Martius, Samarth Kumar, Anne Flämig-Wolak, Alexander Sakowski, Rengin Cabadag, Falk Hanisch, Anna-Elisabeth Wollstein-Lehmkuhl, Alice Freiberg, Christoph Zöphel, Frederik Plewnia and Nick Pruditsch</b><br>Stronger together: An interdisciplinary approach towards defining and measuring sustainability in energy systems |
| 10:20-10:35   | <b>Luis Mundaca, Jonas Sonnenschein, Nicholas Dehod and Sandro Benz</b><br>Transitioning to a local sustainable energy system and rapid decarbonisation: A behavioural economics perspective  |

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| 10:35-10:50  | <b>Stefano Maran</b><br>Plotting a path to a friendly electricity grid: the INSPIRE-Grid project   |
| 10:50-11:05  | <b>Tomas Moe Skjølvold</b><br>Sustainability transitions: expansion zones and transition processes. Insights from the distributed energy transition  |
| 11:05-11:20  | <b>Simen Rostad Sæther</b><br>Climate policy choices and technological development – How do they influence OECD power sector emissions?  |
| 11:20-11:45  | Joint questions and discussion   |
| <b>Track B Smart &amp; sustainable city services</b><br><b>Abstract session 2 – Participation and governance</b><br>Room: TBA<br>Moderator: TBA<br>15 minutes per presenter = 12-minute presentations + 3 minutes of questions |  |
| 09:45-09:50  | Session introduction   |
| 09:50-10:05  | <b>Daniel Baer, Brita Fladven Nielsen and Carmel Lindkvist</b><br>Towards Zero Emission Neighbourhoods: how smart do Norwegian city authorities integrate citizen into the transition process?   |
| 10:05-10:20  | <b>Francesco Gianni, Lisa Rebekka Klecha, Simone Mora and Monica Divitini</b><br>Design of smart city services for and with citizens   |
| 10:20-10:35  | <b>Ida Nilstad Pettersen, Ole Smørðal, Kristina Ebbing Wensaas and Susana Lopez-Aparicio</b><br>Citizen engagement in mobility-related sustainable urban development: Current practices, challenges and opportunities for change               |
| 10:35-10:50  | <b>Brita Fladvad Nielsen, Daniela Baer and Carmel Margaret Lindkvist</b><br>Norwegian municipalities' efforts to integrate energy into city planning; early key challenges from the planning of smart energy communities                       |
| 10:50-11:05  | <b>Beryl Bellman, Prakash Rao, Ann Reedy and Ken Griesi</b><br>Enterprise Architecture Approaches to SDG and stages for sustainable development: Two Case Studies  |
| 11:05-11:20  | <b>Francesca Cappellaro, Roberta Chiarini and Claudia Meloni</b><br>The role of intermediate profiles for the beginning of a new era of sustainability culture   |
| 11:20-11:45  | Joint questions and discussion   |
| <b>Track C Biodiversity &amp; ecosystem services</b><br><b>Abstract session 2 – Methods and conservation</b><br>Room: TBA<br>Moderator: TBA<br>15 minutes per presenter = 12-minute presentations + 3 minutes of questions     |  |
| 09:45-09:50  | Session introduction   |
| 09:50-10:05  | <b>Ron Smith</b><br>The use of Bayesian Belief Networks to study the role of ecosystem services in decisions   |
| 10:05-10:20  | <b>Graciela Rusch, Verónica Rusch, Santiago Varela, Andrea Goijman, Pablo Peri and Dardo López</b><br>Integrating State-and-Transition Models, ecosystem services and BBNs to support environmentally and socially sustainable decision-making |
| 10:20-10:35  | <b>Philipp Hirsch, Moritz Schillinger, Patricia Burkhardt-Holm and Hannes Weigt</b><br>Integrating economic and ecological benchmarking for a sustainable development of hydropower  |

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| 10:35-10:50   | <b>Alexandra Tisma and Ed Dammers</b><br>Using visualization in normative scenarios to support understanding of sustainable landscape future in europe                                      |
| 10:50-11:05   | <b>Wenche Dramstad, Wendy Fjellstad, Christian Pedersen and Graeme Bell</b><br>A Norwegian Map of Ecosystem Services (no-mess) – Visualising multiple services to improve land use planning |
| 11:05-11:20   | <b>Len Blom and Walter Vermeulen</b><br>Biodiversity conservation through landscape level voluntary standards   |
| 11:20-11:35   | <b>Signe Nybo</b><br>How to measure good ecological status, an advice from a Norwegian Expert Commission  |
| <b>Track D Business models for sustainability</b><br><b>Abstract session 2 – Organizational aspects and motivation</b><br>Room: TBA<br>Moderator: Fritz Balkau<br>20 minutes per presenter = 15-minute presentations + 5 minutes of questions |   |
| 09:45-09:50   | Session Introduction  |
| 09:50-10:10   | <b>Hanna Lindén, Henrikke Baumann and Andreas Diedrich</b><br>Translating environmental life cycle management through an organization   |
| 10:10-10:30   | <b>Rodrigo Lozano and Robin Von Haartman</b><br>Analysing the importance and influence of sustainability drivers in organisations   |
| 10:30-10:50   | <b>Barbro Elisabeth Fjørtoft, Richard Glavee-Geo and Siv Marina Flø Grimstad</b><br>Corporate Social Responsibility: What are the motivations for a particular CSR activity?                |
| 10:50-11:10   | <b>Karianne Olsen, Linn Ornum, Martin Fauske Tho and Arild Aspelund</b><br>Entering a Brave New World – Market Entry into a Born Global Industry  |
| 11:10-11:30   | <b>Satu Lähteenoja, Tyra Linko, Roope Mokka, Mika Kuisma and Armi Temmes</b><br>Bees and Trees - a novel way for large companies and startups to co-create sustainable innovation           |
| 11:30-11:45   | Joint questions and discussion  |

**Thursday, 19 October**  
**Session 3**  
**13:15-15:15**

**Track A Institutions, governance & ethics**

**Abstract session 3 – Ethics, governance**

Room: TBA

Moderator: TBA

15 minutes per presenter = 12-minute presentations + 3 minutes of questions

|             |  |
|-------------|--|
| 13:15-13:20 | Session introduction   |
| 13:20-13:35 | <b>Erling Holden, Kristin Linnerud and David Banister</b><br>The Imperatives of Sustainable Development: Needs, Justice, and Limits  |
| 13:35-13:50 | <b>Rita Vasconcellos D'Oliveira Bouman, May Thorseth and Helge Brattebø</b><br>The Potential of Co-Benefits in Climate Change Mitigation Strategy: An Opportunity for Environmental and Social Justice |
| 13:50-14:05 | <b>Hermann Sæther</b><br>Social sustainable development: the art of creating a better world - Redistribution versus institutional aid  |
| 14:05-14:20 | <b>Savis Gohari</b><br>Sustainable Strategy-(Un)sustainable Process  |
| 14:20-14:35 | <b>Line Barkved, Susana Lopez-Aparicio, Harald Throne-Holst and Selamawit Molla Fossum</b><br>Sustainability and Responsibility in ICT-enabled urban environmental research and decision-making        |
| 14:35-14:50 | <b>Espen Stabell and Daniel Steel</b><br>The precautionary principle and fair distribution   |
| 14:50-15:05 | <b>Karsten Klint Jensen</b><br>Individual responsibility vs. the duty to coordinate  |
| 15:05-15:15 | Joint questions and discussion   |

**Track B Smart & sustainable city services**

**Urban Europe Research Alliance Workshop (UERA) Workshop**

Room: TBA

Discussion of the abstract:

'Analysis of the implementation of green roof technology in the residential building sector of Cyprus'

**Isidoros Ziogou, Apostolos Michopoulos, Vasiliki Voulgari and Theodoros Zachariadis**

More information to follow



**Track C Biodiversity & ecosystem services**  
**Workshop – National ecosystem assessments:**

*Biodiversity and ecosystem services assessments for facilitation of political awareness, management and sustainable development*

Room: TBA

Assessment of biodiversity and ecosystem services is a key component for strengthening the science-policy interface for sustainable use and conservation of resources. However, good assessments of biodiversity and ecosystem services are often lacking, hampering management and political awareness as well as scientific advances in the field of biodiversity and ecosystem services research. In this workshop, we want to involve researchers, managers and other stakeholders for discussing the framework for National Ecosystem Assessments (NEA) and draw on the experiences from the NEA from France, Portugal and Spain.

Some discussion questions:

- (1) What are the current main challenges and constraints for good assessments in relation to specific nature types or sectors? How to get access to relevant data, and who should be involved (research community, stakeholders)?
- (2) What type of impact/implications should the assessment have: policy, management, research agenda?
- (3) What are the main actions needed from sustainability science for improving NEAs?

**Track D Business models for sustainability**  
**Abstract session 3 – Sectoral studies and Circular approaches**

Room: TBA

Moderator: Helge Brattembø

20 minutes per presenter = 15-minute presentations + 5 minutes of questions

|             |   |
|-------------|---|
| 13:15-13:20 | Session Introduction  |
| 13:20-13:40 | <b>Vibeke Stærkebye Nørstebø, Adrian Werner and Kjetil Midthun</b><br>Development and application of a circular economy analysis framework  |
| 13:40-14:00 | <b>Julian Kirchherr</b><br>Conceptualizing the Circular Economy: An Analysis of 95 Definitions  |
| 14:00-14:20 | <b>Roberto R. Hermann and Are Jensen</b><br>Unfolding circular economy technological opportunity discovery in Norwegian R&D public support programs through text mining methods                                       |
| 14:20-14:40 | <b>Hogne Nersund Larsen, Christofer Skaar and David Brasfield</b><br>Low carbon procurement in the Norwegian public health sector: A case study of Sunnaas rehabilitation hospital                                    |
| 14:40-15:00 | <b>Christofer Skaar, Anne Gunnarshaug Lien, Runar Skippervik and Erland Olsen</b><br>Identifying nearly zero-energy building candidates – a case study of the renovation potential of a Trondheim housing cooperative |
| 15:00-15:15 | Joint questions and discussion  |



**Friday, 20 October**  
**Session 4**  
**09:00-10:30**

**Track A Institutions, governance & ethics**  
**Abstract session 4 – Policy, economics, innovation**

Room: TBA

Moderator: TBA

15 minutes per presenter = 12-minute presentations + 3 minutes of questions

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|--|---|
| 09:00-09:05  | Session introduction  |
| 09:05-09:20  | <b>Marius Korsnes</b><br>A Social Sustainability Revolution?  |
| 09:20-09:35  | <b>Johannes Mikkonen</b><br>Scenarios for the hyperconnected Nordic Society 2040  |
| 09:35-09:50  | <b>Jan Froestad</b><br>Energy and the Anthropocene: Security Challenges and Solutions   |
| 09:50-10:05  | <b>Jens Viliam Hoff and Martin Møller Boje Rasmussen</b><br>Barriers and opportunities in developing and implementing the Green GDP   |
| 10:05-10:20  | <b>Maryse Chappin, Joost Koch and Marko Hekkert</b><br>Innovation policy and network evolution: the case of the Dutch sustainable energy systems  |
| 10:20-10:30  | Joint questions and discussion  |
| <b>Track B Smart &amp; sustainable city services</b><br><b>Abstract session 3 – Sensor-based solutions</b><br>Room: TBA<br>Moderator: TBA<br>15 minutes per presenter = 12-minute presentations + 3 minutes of questions |   |
| 09:00-09:05  | Session introduction  |
| 09:05-09:20  | <b>Hai-Ying Liu and Sonja Grossberndt</b><br>Collective air quality awareness platform for sustainability and social innovation – the hackAIR approach in Norway  |
| 09:20-09:35  | <b>Dirk Ahlers, Patrick Driscoll and John Krogstie</b><br>Urban Emission and Greenhouse Gas Monitoring: Multidisciplinary Technical and Organizational Considerations   |
| 09:35-09:50  | <b>Susana Lopez-Aparicio, Matthias Vogt, Matt Pierce and Philipp Schneider</b><br>The application of Web-crawling in urban environmental research: a pilot study on emissions from residential wood burning                         |
| 09:50-10:05  | <b>Nathalie Labonnote, Edvard Sivertsen and Berit Time</b><br>The use of flood and stormwater data in Norway: review and recommendations  |
| 10:05-10:20  | <b>Monika Heyder, Fabrice Casciani, Lydiane Philippe, Gwenaëlle Becker, Stephanie Zaba, Thomas Lacroix and Christine Malé</b><br>Modélisation Urbaine Gerland: enhancing integrated urban planning by a model base approach in Lyon |
| 10:20-10:30  | Joint questions and discussion  |

**Track C Biodiversity & ecosystem services****Abstract session 3 – Vegetation studies**

Room: TBA

Moderator: TBA

13 minutes per presenter = 10-minute presentations + 3 minutes of questions

|             |  |
|-------------|--|
| 09:00-09:05 | Session introduction   |
| 09:05-09:20 | <b>Inger Auestad, Knut Rydgren and Rune Halvorsen</b><br>Vegetation recovery of hydropower spoil heaps - assessing restoration success using ordination methods  |
| 09:20-09:35 | <b>Knut Rydgren, Inger Auestad, Rune Halvorsen, Liv Norunn Hamre, Jan Sulavik and Joachim Paul Töpper</b><br>Restoring ecosystems: an evaluation of methods for predicting time to recovery  |
| 09:35-09:50 | <b>Victoria T. Gonzalez, Bente Lindgård, Rigmor Reiertsen, Snorre B. Hagen and Kari Anne Bråthen</b><br>Vegetation bites the dust: No recovery of <i>Empetrum nigrum</i> heaths in response to an extreme event suggests allelopathy can facilitate Arctic browning  |
| 09:50-10:05 | <b>Kenny Helsen, James Speed and Bente Graae</b><br>Assessing the impact of an invasive plant on ecosystem functioning using a functional trait-based framework  |
| 09:05-10:20 | <b>Anders L Kolstad, Gunnar Austrheim, Erling J Solberg, Aurel M A Venete and Sarah J Woodin</b><br>Impact of moose on soils: are high moose densities in Norwegian forests sustainable?   |
| 10:20-10:35 | <b>Emma Marjakangas, Nerea Abrego, Vidar Grøtan, Milton Ribeiro, Mauro Galetti, Renata de Lara Muylaert, Richard Stevens, Laurence Culot, Lucas Pereira, Erica Hasui, Fernando Lima, Paulo Inacio Prado, Alexandre A. Oliveira, Renato de Lima, Ricardo Bovendorp, Carolina Bello and Otso Ovaskainen</b><br>Effects of forest fragmentation on seed dispersal networks in Brazilian Atlantic rainforest |

**Track D Business models for sustainability****Seminar – Green investment tools for sustainable development**

Presented by NTNU Sustainability and

Sustainable Development Solutions Network Northern Europe (SDSN NE)

Room: TBA

This talk-show format session will discuss how green investment tools can be scaled up and become more holistic in the Agenda 2030 perspective by simultaneously addressing environment, social and governance issues. Speakers will present experiences with green investment tools, and discuss issues of how to make green investment tools more holistic from the UN Agenda 2030 perspective.

Speakers include:

- Fritz Balkau, International Advisor at Sustainable Solutions, Paris (Moderator)
- Jan Erik Saugestad, CEO Storebrand Asset Management
- Björn Bergstrand, Head of Sustainability at Kommuninvest in Sweden
- İdil Bilgiç, Principal Economist at The European Bank for Reconstruction and Development (EBRD)
- Kristina Alnes, Senior Advisor, CICERO
- Ander Olstad, CFO, Entra ASA



## POSTER SESSION

On display during all conference days with manned session Wednesday, 18 October, 17:00-18:00

\*Poster presenters should bring their poster for hanging at registration\*

### Track A Institutions, governance & ethics

**Maria Toft**

Grasping the New Wave of Environmental Movements in Denmark

**Filip Colson**

Resilience and efficiency of sustainability in academic research: the politics of dealing with feedback loops

### Track B Smart & sustainable city services

**Marina Bakhtina, Alejandra Madero, Evmorfia Andritsopoulou and Tripti Mahaseth**

Smart Toll Systems

### Track C Biodiversity & ecosystem services

**Maximilian Koslowski, John Sebastian Woods and Francesca Verones**

Identifying relevant impact pathways for marine invasive species within Life Cycle Assessment

**Koen J.J. Kuipers, Kenny Helsen, Francesca Verones and Bente J. Graae**

Identifying appropriate indicators for measuring the ecological status of African savannah ecosystems

**Maria Tuomi and Sonja Kivinen**

Value trade-offs in multifunctional landscapes – insights into northern environments

**Jan Sulavik, Rune Halvorsen, Knut Rydgren, Inger Auestad and Liv Norunn Hamre**

Recovery of species and functional trait composition at restored alpine spoil heaps

**Dario Caro, Steven Davis, Ermias Kebreab and Frank Mitloehner**

Land-use change emissions embodied in Brazilian pork and poultry meat

**Marte Fandrem, Anders Lyngstad and Dag-Inge Øien**

Raised bogs in Norway much rarer and in worse condition than expected - new insights from remote sensing surveys

**Ernest Obeng Asante, Iлина Yusra, Jolanta Rieksta and Truc Van Nguyen**

Designing a sustainable composting model to overcome peat-cutting

**Victoria Berger and David Broome**

An Analysis of Visions and Pathways for Sustainable Forestry at the European and Norwegian Levels

**Sofia Soloperto, Ådne Messel Nafstad and Steffen Rissstad Larsen**

Visions and Pathways for Sustainable Development of the Aquaculture Future

### Track D Business models for sustainability

**Sunniva Bratt Slette and Haley Knudson**

Materiality for faster implementation of the SDGs

**Cecilia Haskins**

A maturity model for communicating progress toward sustainable development for small and medium enterprises

**Örjan Svane**

WHAT DOES IT TAKE? Modelling the transformation of the Hammarby Sjöstad energy systems, exploring potentials for increased efficiency and reduced impacts

**Anika Regett, Sebastian Fischhaber and Constanze Kranner**

Environmental Saving Potential of Circular Approaches for Traction Batteries

**Paritosh Deshpande, Roberta Moschetti, Annik Magerholm Fet and Helge Brattebø**

Overview of criteria and tools for assessing environmental sustainability at the corporate level

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| <b>Nina Hovd, Thea Sitek and Arild Aspelund</b><br>Turning the Tanker – Organizational Challenges by Going from Brown to Green   |
| <b>Michael Belsnes</b><br>Balancing Power Respecting Nature  |
| <b>Marit Moe Bjørnbet</b><br>Life Cycle Assessment in Manufacturing Industry   |
| <b>Marit Moe Bjørnbet and Kjersti Øverbø Schulte</b><br>Sustainable Business Development by Product Communication  |
| <b>Cristina Ramos Martinez, Terje Kristensen and Christofer Skaar</b><br>SUSTAINABLE ROAD INFRASTRUCTURE IN A NORWEGIAN CONTEXT: A state-of-art survey of evaluation schemes and recommendations for decision-makers |
| <b>Selamawit Molla Fossum</b><br>Factors influencing the use of crowdsourcing for urban environmental sustainability   |
| <b>Lucy Chamberlin, Ida Nilstad Pettersen and Casper Boks</b><br>Understanding communication as a factor for user behaviour change in a circular economy   |
| <b>Mark Simoni and Daniel Beat Müller</b><br>Primary versus secondary mineral materials – Can recycling replace mining?  |
| <b>Puck Hegeman and Roger Sørheim.</b><br>Who Dares? Corporate Venture Capital Investment in Cleantech Start-ups   |
| <b>Francesca Cappellaro, Grazia Barberio, Rovena Preka, Laura Cutaia and Claudia Brunori</b><br>Italian roadmap supporting the transition towards circular Business models   |
| <b>John Ellis and Siri Granum Carson</b><br>Sustainability in local clusters - the case of the Rørvik salmon industry  |