

## SRC 2017 Changing Society and Active Citizenship

### Tackling Biases and Bubbles in Participation (BIBU)

Consortium leader: Anu Kantola (University of Helsinki)  
WP-leaders: Tanja Aitamurto (Stanford University), Heikki Hiilamo (University of Helsinki)  
Markku Jokisipilä (University of Turku), Mika Maliranta (The Research Institute of the Finnish Economy ETLA), Pasi Moisio (The National Institute for Health and Welfare THL), Kaarina Nikunen (University of Tampere), Hanna Wass (University of Helsinki)  
Interaction coordinator: Aleksi Neuvonen (Demos Helsinki)

The consortium Tackling Biases and Bubbles in Participation (BIBU) explores how the current global flux – economic restructuring, urbanisation and migration – affects citizens' political capacities, interests and emotions. BIBU also finds out how the political system responds to citizens' interests in policies that define the future of the Nordic model. BIBU also combats the inequalities and the fragmentation in participation – the biases and bubbles – to make the political system more inclusive and responsive to citizens' interests. BIBU embeds relevant information into policy-making, and co-creating knowledge with civil society, interest groups, political decision-makers, the business sector and civil servants. BIBU also develops participatory innovations, such as digital platforms for law making, digital diplomats, citizen and public dialogues, and courses for decision makers, and profiles Finland as an innovative democracy incubator of international standing.

### Participation in Long-Term Decision-Making (PALO)

Consortium leader: Maija Setälä (University of Turku)  
WP-leaders: Kaisa Herne (University of Tampere), Juha Hiedanpää (Natural Resources Institute Finland LUKE), Lauri Rapeli (Åbo Akademi University)  
Interaction coordinator: Henri Vogt (University of Turku)

Participation in Long-Term Decision-Making (PALO) addresses the problem of 'short-termism' in public decision-making and governance. Although there is plenty of information about the long-term consequences of human action, this information has only a limited influence in policy-making. With the objective to strengthen democracy, PALO builds upon state-of-the-art research. It develops better practices for deliberative citizen participation that can be applied in Finland and elsewhere. PALO's multidisciplinary research involves political scientists, environmental social scientists, psychologists, behavioral economists and philosophers, and a wide range of collaborators. WP1 focuses on philosophical and behavioral foundations of decision making. WP2 focuses on the problems of existing governance practices. WP3 and WP4 co-design novel mechanisms to engage citizens and stakeholders at various levels of governance. WP5 pertains to interaction with stakeholders and society at large.

## **Collaborative remedies for fragmented societies — facilitating the collaborative turn in environmental decision-making (CORE)**

Consortium leader: Lasse Peltonen (University of Eastern Finland)

WP-leaders: Rauno Sairinen (University of Eastern Finland), Heli Saarikoski (Finnish Environment Institute SYKE), Tapio Litmanen (University of Jyväskylä), Ismo Pölönen (University of Eastern Finland), Nina Helander (Tampere University of Technology), Pia Polsa (Hanken School of Economics), Taru Peltola (Finnish Environment Institute SYKE). Additionally, Linnunmaa Oy will participate in the consortium.

Interaction coordinator: Maija Faehnle (Finnish Environment Institute SYKE)

CORE will address the ability of Finnish political and system to cope with complex environmental planning and policy problems in fragmented 'post-truth' societies. It will experiment with collaborative approaches in real-life case studies to explore the potential, and limits, of collaborative governance mechanisms and inclusive knowledge practices to strengthen active civil society, facilitate reasoned public debate, increase trust between demographic groups and regain legitimacy of political institutions. The project will build novel and concrete solutions for engaging a broad range of societal actors in co-creation of solutions for contested environmental policy problems. It provides a sound basis for substantial regulatory improvements in Finland, supporting incorporating collaborative elements to regulatory reforms. CORE will combine interdisciplinary expertise with skills in facilitation and mediation and work in close collaboration with stakeholders and civil society actors.



## SRC 2017 Adaptation and Resilience for Sustainable Growth

### Creative adaptation to wicked socio-environmental disruptions (WISE)

Consortium leader: Hukkinen, Janne Ilmari (University of Helsinki)  
WP-leaders: Turo-Kimmo Lehtonen (University of Tampere), Markku Wilenius (University of Turku). Additionally, Aalto University will participate in the consortium.  
Interaction coordinator: Paavo Järvensivu (BIOS Research Unit)

WISE aims 1) to improve decision making over wicked socio-environmental disruptions and the evaluation of decision outcomes, and 2) to build-up resilience and adaptation to wicked socio-environmental disruptions. WISE develops and tests a new national-level integrative policy mechanism, Policy Operations Room (POR), which has the capacity to design rapid, evidence-based adaptation policies to unexpected socio-environmental disruptions with multiple drivers and impacts. POR consists of war-room-like emulation exercises in which participants mimic how they would decide in a real-life disruption. POR draws on national and international experts to provide a test bed for integrating rapid and comprehensive science advice to the most complex policy challenges facing a small and transnationally exposed nation state like Finland.

### Enhancing Adaptive Capacity for Sustainable Blue Growth (BlueAdapt)

Consortium leader: Anna-Stiina Heiskanen (Finnish Environment Institute SYKE)  
WP-leaders: Otso Ovaskainen (University of Helsinki), Helena Valve (Finnish Environment Institute SYKE), Jukka Similä (University of Lapland), Markku Ollikainen (University of Helsinki). Additionally, Demos Research Oy, Finnish Meteorological Institute and University of Eastern Finland will participate in the consortium.  
Interaction coordinator: Anna-Stiina Heiskanen (Finnish Environment Institute SYKE)

Blue treasures – rivers, lakes and marine waters – provide great potential for economic growth. Activities, like agriculture, peat and hydropower production threaten those, and climate change impacts food and energy systems creating socio-ecological risks. Curbing negative trends into opportunities like transition to new business models, calls for adaptive governance, which is agile, predictable, and science-based. The project develops a science/policy-interface by integrating cutting edge ecological modelling with economic, policy and regulatory analysis. Together with firms we examine how value-creating solutions support blue growth. Analysing obstacles to adaptation and best ways the government can promote transition to sustainable blue growth, we craft regulatory strategies for the use of new information. With stakeholders we co-create solutions for sustainable growth and good ecological status of waters and compile them into Adaptive Governance Framework for Blue Economy (AGORA).



## **Novel soil management practices - key for sustainable bioeconomy and climate change mitigation – (SOMPA)**

Consortium leader: Raisa Mäkipää (Natural Resources Institute Finland LUKE)  
WP-leaders: Kati Kulovesi (University of Eastern Finland), Kristiina Regina/Raija Laiho (Natural Resources Institute Finland LUKE), Timo Vesala (University of Helsinki), Heikki Lehtonen (Natural Resources Institute Finland LUKE), Alekski Lehtonen (Natural Resources Institute Finland LUKE), Jyri Seppälä (Finnish Environment Institute SYKE)  
Interaction coordinator: Kati Berninger (Tyrsky Consulting)

The Paris Agreement aims to limit global climate change by reducing greenhouse gas (GHG) emissions. Finland has a target to reduce the emissions of the agriculture and other non-emission trading sectors by 39% compared to the 2005 levels. A fraction of the emission reductions may be compensated by forest carbon sinks. Currently, peat soils of croplands and forests are largest sources of GHG emissions on land-use sector in Finland.

This project will develop ecologically and economically sustainable climate change mitigation methods for forest and cropland on peatsoil. We will produce new scientific knowledge on drivers for the soil CH<sub>4</sub> and CO<sub>2</sub> emissions on peat soils and on cost-efficient and ecologically sustainable means to mitigate the emissions. We will provide methods that encourage land owners to apply the optimal mitigation measures in practice. The methods to be developed by this consortium will help Finland to reach the emission reduction targets.

## **Improving the information base and optimizing service solutions to support social welfare and health care reform (IMPRO)**

Consortium leader: Tiina Laatikainen (University of Eastern Finland)  
WP-leaders: Jarmo Rusanen (University of Oulu), Kristiina Manderbacka (The National Institute for Health and Welfare THL), Markku Tykkyläinen (University of Eastern Finland), Miika Linna (Aalto University), Pasi Fränti Tykkyläinen (University of Eastern Finland)  
Interaction coordinator: Marko Lähteenmäki (The National Institute for Health and Welfare THL)

The need to improve information to develop and evaluate health and social care under the ongoing welfare and health care reform in Finland is evident. The aim of this project is by using marker conditions to develop data retrieval systems and analyses to create prototypes to further analyse the health and social care structure, access to services, care pathways, outcomes of care and costs and costeffectiveness taking into account area level and sociodemographic aspects of clients and population. Marker conditions are selected to represent client groups with different types of common and important health problems, service use needs and patterns. The research team will analyse the situation both before and after the welfare and health care reform to observe the effects of integration. The joint municipal authority for North Karelia social and health services where the integration of services was done already 1st January, 2017 is used as a pilot area for analyses.



## **Integrated Biodiversity Conservation and Carbon Sequestration in the Changing Environment (IBC-CARBON)**

Consortium leader: Martin Forsius (Finnish Environment Institute SYKE)  
WP-leaders: Annikki Mäkelä (University of Helsinki), Risto Heikkinen (Finnish Environment Institute SYKE), Katri Rankinen (Finnish Environment Institute SYKE), Timo Kumpula (University of Eastern Finland), Anna-Kaisa Kosenius (University of Helsinki), Atte Moilanen (University of Helsinki)  
Interaction coordinator: Saija Kuusela (Finnish Environment Institute SYKE)

Successful integration of biodiversity conservation with sustainable forest use under global changes is a major challenge for the Finnish society. Key national policies (e.g. Finnish Energy and Climate Strategy) aim at increasing the use of wood for different products and renewable energy. These aims need to be integrated and balanced with policies for biodiversity conservation. Increased biomass outtake will have far-reaching consequences for biodiversity conservation, carbon sequestration, as well as other environmental effects. The project aims at developing (i) integrated models to determine spatially optimized land-use in forest ecosystems, (ii) voluntary monetary compensation mechanisms for forest owners and (iii) informing stakeholders on adaptation options and sustainable policies and their ecological and economic boundary conditions.

## **Manufacturing 4.0 - strategies for technological, economical, educational and social policy adoption**

Consortium leader: Kari Ullakko (Lappeenranta University of Technology)  
WP-leaders: Jari Kaivo-oja (University of Turku), Heikki Handroos (Lappeenranta University of Technology), Mikael Collan. (Lappeenranta University of Technology), Jouni Välijärvi (University of Jyväskylä), Heikki Hiilamo (University of Helsinki)

Manufacturing is becoming automated and service-driven by digital platforms. Industry is changing into low-cost onsite manufacturing. This will cause drastic changes to the structure of industry and society. In this research project, we try to answer the question “how can we make sure that Finland can thrive in this change?” We not only envision a roadmap of how high-tech manufacturing will change, but also show concretely what are the key technological and societal drivers that drive this change, and explain what kind of business, educational, and societal models are needed in order to ensure that Finland and Finnish companies are able to survive and reap the most benefit from this revolutionary change. We study how automatic manufacturing of properly selected products could increase jobs and how the increased income due to automation could be used for supporting those people who will be out of jobs due to automation, thus preventing the division of society.



## SRC 2017 Keys to Sustainable Growth

### **Growing Mind: Educational transformations for facilitating sustainable personal, social, and institutional renewal at the digital age (Growing Mind)**

Consortium leader: Kai Hakkarainen (University of Helsinki)  
WP-leaders: Kimmo Alho (University of Helsinki), Erno Lehtinen (University of Turku), Tapio Salakoski (University of Turku), Jari Lavonen (University of Helsinki).  
Additionally, University of Tampere and Helsinki City Education Department will participate in the consortium.  
Interaction coordinator: Kirsti Lonka (University of Helsinki)

“Growing Mind: Educational transformations for facilitating sustainable personal, social, and institutional renewal in the digital age” (2018-2023) project is a part of the Strategic Research Programme of the Academy of Finland. The project supports renewal of Finnish teaching and schooling in interaction with rigorous academic research. Positive youth development is supported through 6 work packages: 1) systematic longitudinal data on adolescents’ engagement and socio-digital participation, including neuroscientific studies of digital activity; 2) Growing Mind interventions empowering learning and development; 3) carrying out engaging making and gaming projects at schools; 4) developing new generation learning analytics; 5) supporting teacher development and systemic school transformation; and 6) organizing multi-faceted research-practice workshops. The project will be carried out in collaboration with the Digitalization Project of the Helsinki City Department of Helsinki.

### **All youth want to rule their world (ALL-YOUTH)**

Consortium leader: Reetta Toivanen (University of Helsinki)  
WP-leaders: Päivi Honkatukia (University of Tampere), Kaisa Väänänen (Tampere University of Technology), Jukka Viljanen (University of Tampere)  
Interaction coordinator: Irmeli Mustalahti (University of Eastern Finland)

A huge challenge of contemporary Finnish society is that becoming a citizen in the 2010s is marked by multiple obstacles. There is an increasing degree of mistrust and frustration among youth (aged here from 16 to 25), which can currently be observed in their low voting rates and criticism towards the current political system. This may hinder the stability of society and, consequently, sustainable growth. Currently, young people’s own capacities, and the obstacles that hamper their engagement with society, are broadly unrecognized. Going against the trend of depicting youth as recipients of projects, ALL-YOUTH explores the visions of youth themselves regarding a sustainable future, growth and wellbeing. To counter the challenges above, the multidisciplinary ALL-YOUTH project will use three key ideas for sustainable growth: good governance and rule of law, digital innovation and bioeconomy. Young people occupy a strategic position in the future development of society in these key areas.

