

Annual Report

2020



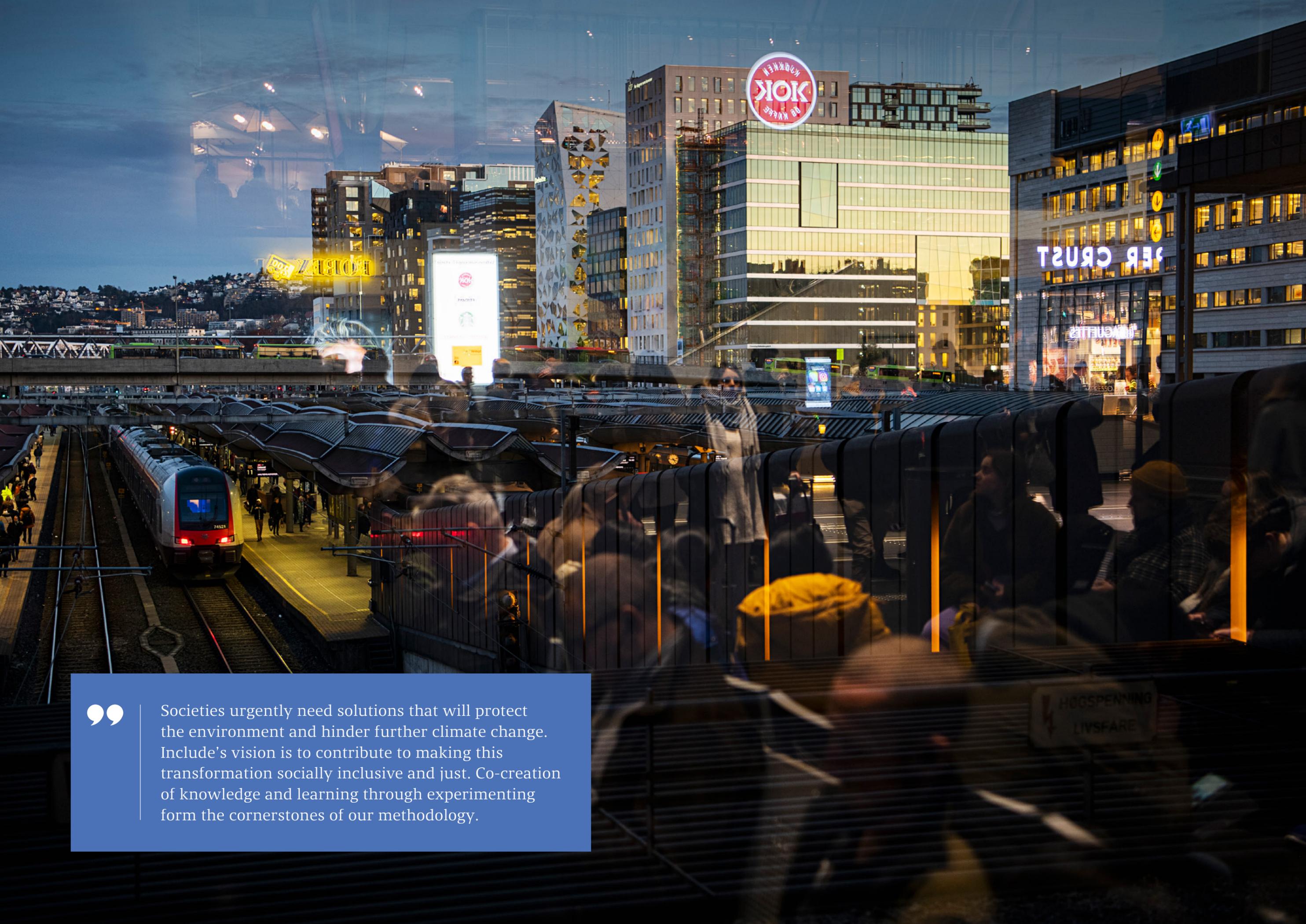
Include

Research centre for socially
inclusive energy transitions



Include
Annual Report
2020

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Societies urgently need solutions that will protect the environment and hinder further climate change. Include's vision is to contribute to making this transformation socially inclusive and just. Co-creation of knowledge and learning through experimenting form the cornerstones of our methodology.

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01

Introduction

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Message from the Chair

It has been a pleasure to follow Include in its first year as a social science research centre for environmentally friendly energy (Forskningssenter for Miljøvennlig Energi – FME Samfunn).

Interdisciplinary social science research on energy and environmental change is in high demand. Include creates an important potential for both interdisciplinary work in general and collaboration between ‘soft’ and ‘hard’ disciplines. I act as Director of UiO:Energy, a cross-faculty strategic initiative to strengthen interdisciplinary work on energy at the University of Oslo (UiO). We supported the idea of establishing Include as an FME at UiO because it would allow for a comprehensive approach to energy, sustainability and social justice. After one year in operation, Include is already facilitating new types of interdisciplinary collaborations between senior staff at the departments of Technology Systems and Informatics at UiO and social scientists in Include. With support from the Faculty of Natural Sciences, one interdisciplinary PhD has already been recruited, studying how social factors can be integrated into energy system modelling, and we hope there will be more to come. This kind of knowledge is important because it brings knowledge about people to the table in the shaping of technology, prognoses and policymaking.

Starting up in a year characterised by the effects of the COVID-19 pandemic created a certain need to improvise on our initial plans. We were particularly sorry that we could not present the elaborate and exciting programme for our launch event, which was to take place on 30th March – this turned out to be 18 days after Norway was locked down. However, as a centre, we handled this proactively, which led to only four percent underspending of the budget. On behalf of the board I would like to thank all the Include researchers and partners for quickly adapting to the situation and maintaining an impressive level of activity. Speaking of the board, we are thrilled to have a very active group of board members in Include, and they suggested we adjust some of our plans and immediately start doing research on the social effects of COVID-19. One result showed that more available home time enables sustainable practices, but at the same time, increases material consumption, for example, on refurbishment.

At the time of writing, it remains uncertain how – and for how long – the pandemic will influence our society, and thus, the progress and direction of Include in 2021 and years to come. What is certain is that our realities have somewhat changed, and Include will have to account for this when searching for solutions for socially inclusive energy and a just transformation to a low-carbon society.



Vebjørn Bakken

Vebjørn Bakken
UiO:Energy

Report from Tanja, the Head of Include

What constitutes a just society, and how do we reach such a state of societal organisation? Within Include’s field of research, what do we mean when we say we wish to examine social justice aspects of policies for transformative change, such as measures reducing car driving in cities?

In 2020, Include’s group of researchers and practitioners invested considerable energy in discussing and reflecting on our identity and our characteristics as a research centre and the concepts and words that we use. One of our key concepts is *social justice*, or *energy justice* when used in the realm of energy, and *environmental justice* when addressing the transformation to an environmentally friendly society. What these facets of justice share is that they give attention to distributional aspects (who benefits, who bears the cost?), recognitional aspects (who bears responsibility, whose interests are accounted for and who is invited into the process of shaping solutions?) and procedural aspects (who decides?). To simplify, justice makes us focus on different levels of government and the situations of different groups, not least, the processes through which new solutions are decided and implemented.

To return to the opening questions, in my view, Include’s mission is not to provide a blueprint regarding what constitutes a socially just transformation to a low-emission society – what is regarded as just depends on whose position is being represented. Rather, our ambition is to conduct critical and solution-oriented research to make policy decisions as informed as possible. To reach this goal, policy recommendations are important. Ultimately, it remains the responsibility of political parties and elected political members of parliament, counties and municipalities to weigh different positions, benefits and disadvantages against each other and make decisions.

Include’s approach is, first, to pose a set of questions related to just transformations; second, to provide knowledge about the social effects that would otherwise have been missed, and third, to test and document the effects of promising solutions on which recommendations could be based. All this work is carried out in dialogue with our partners. In many cases, particularly related to our research on municipalities, where participatory approaches are often practised – as is also the case for many grassroots initiatives to reduce consumption – we hypothesise that *socially inclusive processes* are key to reaching effective and socially accepted solutions. Our comprehensive approach will also enhance potentials for learning across sectors, for example, whether social justice in the electricity sector could be strengthened through more inclusive processes.

To begin answering some of these questions, Include has established 39 projects that will address various aspects of the ongoing and needed transformation. It has been a great pleasure to note that our partners are just as keen as the researchers to dive into these problems and look for opportunities for change. Let me end by sharing that we are also truly happy about Include’s positive reception among students and that we have had a hard time selecting the best candidates among a range of well-qualified applicants for our new PhD positions.

This report presents the results from Include in 2019 and 2020. You are warmly welcomed to take a look and to contact us at any time.



Tanja Winther

Tanja Winther
Professor and Head of Include

Include summary, 2019 and 2020



Include workshop November 2019

Overall goal



Include's overall goal is to conduct critical research that contributes to a just transformation to a climate and environmentally friendly society via collaboration between researchers and practitioners.

Collaboration

By the end of 2020, the consortium consisted of 22 partners and 7 research institutions. Include has 77 active partner participants, 47 associated researchers, 7 completed master's projects and 2 summer projects. In addition, 39 people are involved in Include's administration, communication and financial reporting.

In 2019 and 2020, we held many workshops and meetings to prioritise our research activities. This process, resulting in a project portfolio of 39 single projects, was carried out in several steps:

1. The partners gave inputs on their knowledge needs
2. The research group defined a set of criteria for project selection

3. Researchers and partners prioritised and identified the first set of projects
4. The partners prioritised the projects in which they wished to participate.

We thoroughly discussed how we should work as a group given the COVID-19 restrictions, as well as our work with external communication and the concepts and words that we use. We reallocated some of the budget initially allocated to physical gatherings to recruit young researchers as assistants. This allowed us to redirect parts of the research to studying the effects of COVID-19.

Glimpses from the project portfolio and educational activities

In the work package (WP) *Energy systems in transition*, we started projects on bioenergy, wind power, solar energy in housing cooperatives, and the EU Clean Energy Package. Furthermore, several sub-projects examine what kinds of end-users will have the opportunity to modify their electricity consumption. This is important because Norwegian grid companies are currently planning to modify their electricity tariff structures. We are also looking at why municipalities choose to invest in innovative energy solutions in buildings. Finally, we have recruited one PhD student who will research the practitioners' capacity to transition to energy-relevant practices. In addition, and in collaboration with the Department of Technology Systems at UiO, one PhD student has been recruited and started work on exploring and improving the representation of social factors in energy systems modelling.

In the *Energy flows and spaces* WP, we have begun two projects on the COVID-19 pandemic. We are investigating the pandemic's impacts on urban land use, transport patterns and people's everyday lives. Other topics being addressed are truly public spaces, sustainable housing, urban sprawl

and densification, and the impacts of mass transportation from construction sites to landfills. We recently recruited a PhD looking at barriers and opportunities for upscaling sustainable protein consumption in Norwegian households.





Photo: dronebilder, Olie Jönsson A-lab



Now is the time to set the vision of what is fair, what is socially just, what is inclusive and how we are actually going to practically do that. So the timing of Include seems to be absolutely perfect. It's starting to ask those questions where, before we get too far down the line and forget the social justice implications, we can do something about it now.

Kirsten Jenkins, Edinburgh University, Include Researcher



Lilleström municipality is a partner in Include

In the **Municipalities as change agents** WP, we are looking at climate budgeting, smaller municipalities' work on just transitions, participatory processes, local circuits, greening industrial relations in municipalities and sharing. A project on Urban Growth Agreements (UGAs) is underway, looking at what significance social inequality has had for the renegotiation of the agreements. Two PhDs were recruited in 2020. One will be researching the role of municipalities in initiating and developing inclusive solutions for the circular economy, and the other will explore multi-level governance processes within transport policies.

In the **Interventions** WP, we are carrying out master's projects on initiatives for reducing food waste in collaboration with UiO, Future in Our Hands and several municipalities. We are planning a project on the urban

development area Hovinbyen in collaboration with Pådriv, researching how social sustainability is addressed.

Durham University, UK, leads the **Learning across borders** WP. In partnership with Durham City Council (DCC), we are researching whether and how DCC's climate action plan addresses social inequality. We have also initiated a project on COVID-19, focussing on the social impacts of the pandemic and the measures implemented.

Overall, we promote cooperation between researchers and partners across WPs and projects. For example, we have established a group working on theoretical concept development and an ambitious environmental strategy (Section 8, Synthesis).

In 2020, we developed an Include master course 'SUM4502 INCLUDE-

Socially inclusive energy transition', carried out as a one-week intensive course. We also arranged a PhD course in collaboration with the Department of Sociology and Human Geography at the University of Oslo with a focus on the implications of COVID-19 for a socially inclusive transformations to sustainability.

Communicating Include

In 2019 and 2020, we emphasised establishing our channels for internal communication to provide a basis for communication among researchers and between researchers and partners. We also created communication tools such as logos, social media channels and websites.

Include co-hosted several seminars and workshops for external audiences in 2020. Although the Include kick-off event, planned for 30 to 31 March, was

cancelled because of restrictions on gatherings during the COVID-19 pandemic, digital seminars and workshops were soon to become the platform for external meetings. We also developed new ways of organising these events, allowing for dialogue between participants.

Include as a catalyst for interdisciplinary research

The establishment of Include as a research centre means that researchers from various social science disciplines are collaborating in interdisciplinary teams. Include is also host to a 'convergence environment' for energy research at UiO. Here, researchers from social and natural science disciplines collaborate on the recruitment and supervision of PhD students. The first recruited candidate will research how social factors can be included in energy modelling.





02

Include at a glance

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Include at a glance: goal, rationale, methodology and research plan

Overall goal



Include's overall goal is to conduct critical research that contributes to a just transformation to a climate and environmentally friendly society via collaboration between researchers and practitioners.

Include takes a comprehensive approach to studying how climate gas reduction, environmental protection and a systemic energy transition can be achieved in a way that is socially inclusive and just. Our name, Include – Research Centre for Socially Inclusive Energy Transition – reflects these ambitions. Include is funded by the Research Council of Norway (RCN) through the Research Centre for Environmentally Friendly Energy programme (Forskningssenter for Miljøvennlig Energi, FME Samfunn), 2020–2027.

Why Include?

The forthcoming transformation to a climate and environmentally friendly society requires more than technological solutions, top-down regulations and innovative market mechanisms. Include, anchored in social science disciplines, is well equipped to address some key challenges associated with the coming transformation: First, policy instruments, such as regulations for energy distribution or subsidies associated with selected technologies, need to be perceived as *relevant and fair* to be socially accepted among affected communities and individuals. This would increase the feasibility of implementing the measures. For example, if regulations and initiatives coming from national authorities counteract municipalities' transformative actions, this may hinder the overall transformation; protests against toll roads illustrate the same point. This issue highlights the importance of including affected levels of governance, organisations, groups and individuals in the process of forming transformative measures.



Photo: Mari Aftret Mørvedt, CICERO

It is not always the case that the groups that are most clearly articulated and heard in the public discourse surrounding a given measure represent the most severely affected communities, organisations, groups or individuals. Include's second contribution as a research centre is to examine how societal and social structures come into play when new measures are introduced: Do they reproduce, strengthen or balance existing injustices, including those related to geographical differences and levels of governance?

Methodology

We draw on three tenets associated with the concept of social justice, which are as follows: how measures affect and involve different groups and actors (distributional justice), how different groups and actors are involved in decision processes (procedural justice) and whose perspectives are considered and who bears responsibility (recognition justice). Include's work encompasses different sectors and disciplines, each representing a particular trajectory of concept development. Therefore, in our work, the reader is likely to meet several versions of justice – energy justice, mobility justice and environmental justice. Justice is used as an analytical starting point. In addition, Include works from a bottom-up approach, envisaging that we must understand people and communities first and then

consider *how* environmental and economic sustainability can be achieved. Hence, we pay particular attention to *processes*, whether they occur within municipalities, when municipalities meet inhabitants and businesses or within grassroots initiatives. We hypothesise that socially inclusive processes will enhance transformation, but what social inclusion means in practice is an empirical question to examine (e.g. whether all groups and communities are represented in such processes and what can be done to ensure that the interests of all groups, including vulnerable groups, are accounted for).

A cornerstone in Include's methodology is co-creation of knowledge. This notion implies that we produce knowledge through collaboration between researchers and partners who represent the public, private and voluntary sectors. We ask a set of critical questions that will be examined empirically. Finally, based on the results, we will test and document the effects of promising solutions and provide recommendations for policy on the forthcoming transformation.

A note on our normative stance

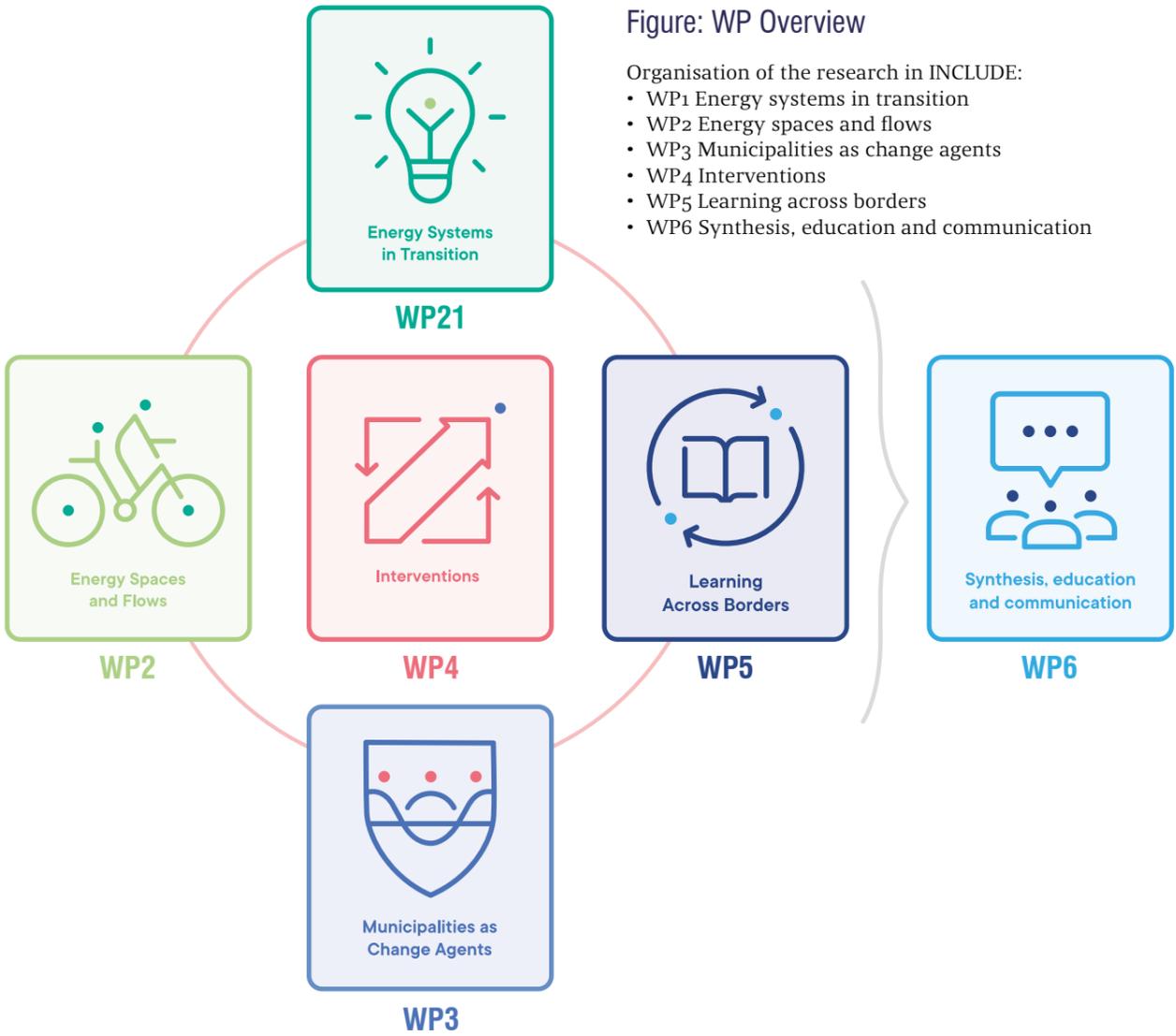
Include's core (normative) values are rooted in the urgent need to protect global and local environments while ensuring social inclusion and justice.



One of the real strengths of this project is that it also brings in social sustainability as an element. And that's attached to environmental sustainability, because if we build cities and homes that have to be torn down because they don't work, that's not environmentally sustainable. If we manage to create social sustainability, then we create cities where there is actual diversity, and a vibrant city life, and where it feels safe to be, and where people feel they belong. That's social sustainability. If we manage that, then we also have more robust cities, which work over time.

Julie Sjøwall Oftedal, A-lab Architects, Include Partner

Research plan and Work Packages



Thematic Overview

WORK PACKAGE	Energy Systems in Transition	Energy Spaces and Flows	Municipalities as Change Agents	Interventions	Learning Across Borders	Synthesis, education and communication
	Restructuring of energy systems	Consumption and the built environment	Institutionalisation of climate policies	Development of practices and tools	Development of practices and tools	Synthesis and working across
THEMES	Electrification versus diversification of national energy sources and carriers	Social and spatial exclusion/inclusion	Involving the local community			Education
	Perceptions and implications of EU energy integration for Norway	Testing planning and design strategies	Multi-level governance and adaptive co-management			Communication



WP1

Energy systems in transition

WP1: Energy systems in transition

WP1 addresses stationary energy systems, starting with electricity. The existing Norwegian electricity system is primarily renewable (hydropower, although the share of wind power is increasing and solar power is starting to emerge); thus, a central question is how increased production of 'new' renewable electricity will affect the environment and communities and groups within Norway and in countries where resources are extracted. Another question is how subsidies and regulations affect small generators (micro hydro, wind, solar) compared with larger hydropower producers. Policies for distribution and end-use of electricity highlight efficient use of resources and security of supply. Here, Include asks how regulations and measures impact different actors and different parts of the population. WP1 also addresses the question of diversification of Norway's energy carriers, starting with a study on bio-energy. Finally, Norway is part of EU directives with implications for numerous aspects of its energy sector. Here, we aim to understand and communicate the implications of such policies ahead of their implementation and how groups engage with EU policies.

WP1 research objectives

Overall objective: Analyse and provide recommendations on how the ongoing energy transition of the Norwegian energy system may increase resource efficiency and value creation, reduce emissions and degradation of local environments, and be socially just.

Sub-objectives:

- To understand how changes to a more decentralised, multi-directional and digitalised electricity system are determined, justified



and experienced by stakeholders and end users, and the implications for energy justice, the environment and value creation.

- To explore the 'pros' and 'cons' of increased diversification of national energy sources and carriers with respect to energy justice, the environment and value creation.
- To identify the main drivers, barriers and energy justice implications related to Norwegian integration into the European energy markets.



WP2

Energy spaces and flows

WP2: Energy spaces and flows

WP2 expands the notion of energy to include embodied energy, and it has a focus on space and the 'flow' of people and goods, including consumption at large. By addressing public planning and the ways people live, work, commute and spend their leisure time, WP2 will examine how the transformation to a climate and environmentally friendly society can be achieved in a socially just manner. This implies studying how plans and measures affect people across different social markers, such as age, gender, income and education, and ethnicity, and across different geographies, such as within cities and towns, suburban versus urban; northern versus southern Norway and Norway versus other countries.

WP2 research objectives

Overall objective: Analyse the geographies and everyday practices of direct and indirect energy use and provide recommendations to ensure socially just and inclusive decarbonised energy spaces.

Sub-objectives:

- To analyse consumption patterns, transport practices and the built environment, and suggest how environmental sustainability may be reached in a socially just manner.
- To explore the direct and indirect energy use implications of urban and regional planning for buildings, public spaces and systems of transport, and identify to what extent such planning and design practices lead to social and spatial inclusion and exclusion.
- To develop and test solutions for sustainable and socially inclusive planning and design strategies through co-creation with user partners.





WP3

Municipalities as change agents

WP3: Municipalities as change agents

The role of municipalities in driving the forthcoming transformation while meeting the needs of different groups is the focus of WP3. This includes investigating and analysing how the municipal organisation is prepared and working to implement the necessary changes, how they involve the local community in their work and how the different levels of government collaborate to plan and implement socially inclusive transformative actions. Although the outcomes of transformative measures and policies for different groups and actors will be addressed, we will pay particular attention to the processes leading to the implementation of those measures. Crucial questions asked relate to which groups and actors are involved, in what way and for what reasons.



Local community initiatives. Mini-public library at Snåsa and "hugging corner" in Nordfjordeid

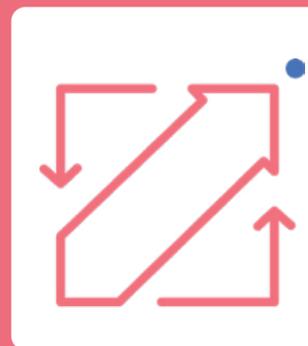
WP3 research objectives

Overall objective: Analyse and provide recommendations on how municipalities can develop strategies and measures that ensure a socially inclusive transformation to a climate and environmentally friendly society.

Sub-objectives:

- To identify practices and strategies that can be adopted to institutionalise socially inclusive transformative measures and policies.

- To understand how municipalities and stakeholders can co-create solutions for inclusive processes towards a low-emission society and the potential outcomes related to social inclusiveness, climate and environmental impact and value creation.
- To understand how regional and national levels can contribute to realising municipalities' potential to act as agents for socially inclusive transformative measures and policies.



WP4

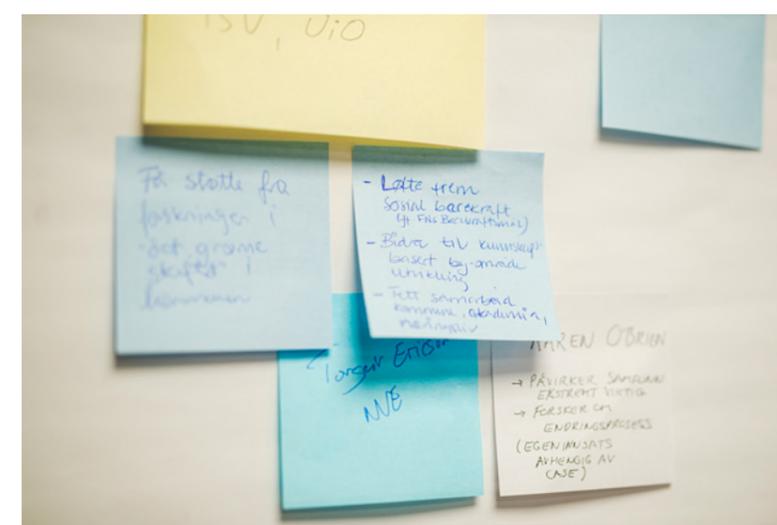
Interventions

WP4: Interventions

The aim of Include is not only to study how a socially inclusive and just transformation to a climate and environmentally friendly society is possible but also to work jointly with our partners to create concrete tools to achieve this transformation. WP4 builds on the research from the other WPs, as well as the knowledge and experience of Include's partners, to develop, test and evaluate innovative interventions for societal transformation. Co-creation is a core pillar of the work in WP4: The proposed interventions are co-designed with Include's partners and other stakeholders and tested, evaluated and revised in continuous dialogue with these stakeholders. In addition, many of the interventions focus on participatory approaches that encourage citizens to take part in the co-creation of social and environmental practices in their local communities.

WP4 research objectives

Overall objective: Together with user partners, co-design, experiment and evaluate innovative measures with the aim of reducing emissions and creating a climate and environmentally friendly society.



Sub-objectives:

- To explore how citizen participation and co-creation can be fostered using digital tools, for example, social media, digital representation, energy simulations, GIS systems and mobile media.
- To understand how local organisations can be configured to improve socially inclusive planning to achieve a climate and environmentally friendly society.
- To identify tools, methods and approaches needed for the development of meta-level inquiry synthesising experiences from the different interventions for further use.



WP5

Learning across borders

WP5: Learning across borders

In this WP, we ask what Norway can learn from the United Kingdom. Durham County Council has recently declared a climate emergency and proposed an action plan to implement measures to mitigate greenhouse gas emissions. Several Norwegian municipalities have also declared a climate emergency and developed climate action plans. What distinguishes the British response from the Norwegian one is, on the one hand, the extent of deprivation and inequality in the United Kingdom, where energy vulnerability (sometimes referred to as energy poverty) is a significant issue

for UK energy policy and regulations, and on the other, the weak financial and policy position of British local authorities in a highly centralised polity. This explains Durham's focus on mitigating the energy effects of poverty and the position of vulnerable groups in their climate plan. The starting point for developing climate plans in Norway tends to be a more focussed concern with emission cuts, based on more abundant local powers than are available in the United Kingdom. WP5 aims to draw on UK experiences to reflect on how Norwegian local plans for climate emissions might more strongly integrate a concern for social justice.

WP5 research objectives

Overall objective: Through comparative research in Norway and the United Kingdom, analyse lessons learned and provide recommendations for a socially inclusive transformation to a low-emission society.

Sub-objectives:

- To identify the strategic objectives of UK municipalities regarding the implementation of a socially inclusive and just transformation.
- To carry out case studies with DCC focussing on knowledge transfer in the context of the tensions/correspondences arising between decarbonisation and social justice and considering the role of civil society groups and other actors in shaping new initiatives.
- Together with investigators and others from the research consortium, to contribute to the development of a curriculum targeted at public planners in Norwegian municipalities.



Durham city centre.
Photo by Charlie Green on Unsplash



WP6

Synthesis, education and communication

WP6: Synthesis, education and communication

WP6 will involve all researcher partners in synthesizing the research findings and address cross-cutting issues. Further, it will develop educational programs and research training of relevance to Include's focus area. Finally, under this work package communication between research and user partners will be secured, and results disseminated to our target groups. The target groups for Include's communication activities are the scientific community; partners and stakeholders; and the general public.

WP6 objectives:

1. To provide a synthesis of our research findings.
2. Address cross-cutting issues for all Include partners.
3. To contribute to research training and education within Include's focus areas by developing PhD and master's courses and creating a sense of community among involved students.
4. To ensure communication between research and user partners and disseminate the results to the scientific community, partners and stakeholders, and the public at large.



Part of the live drawing reflecting discussions from Include's communication workshop, by Mikael Noguchi



Organisation of Include

Organisational structure



Include's Board



Vebjørn Bakken
UiO



Kristin Halvorsen
CICERO



Iver Neumann
FNI



Matteo Chiesa
UiT



Bjørn Erik Nordby
Asker kommune



Henriette Rognlien
Hurdal kommune



Julie Sjøwall Oftedal
A-lab



Christoffer Klyve
FIVH



Inger Lise Blyverket
Forbrukerrådet

Organisation of Include

Management group



Tanja Winther
Head of Include



Hege Westskog
FME Coordinator and Lead WP3



Tor Håkon Jackson Inderberg
Lead WP1



Per Gunnar Røe
Lead WP2



Ole Smørdal
Lead WP4



Simone Abram
Lead WP5



Hilde Holsten
Lead communication

Communication and research support



Iris Leikanger
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Elise Prytz Hafskjold
CICERO



Suzanne Tærud Day
CICERO



Sigrid Rian Song
CICERO



Claes Lykke Ragner
FNI



Mariann Opaker
OsloMet



Gøril Heimland
UiT



Christian Hansen
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Marius Bergh
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Knut Kjæreng
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Terje Røysum
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Kristoffer Ring
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Lisbeth Kjelstrup
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Espen Refstie
TØI



Stephanie Schmölder
ISS, UiO



Galina Loginova
ISS, UiO



Trine Labahå
IPED, UiO



Stina Petersen
ISS, UiO

Admin and finance staff

Partners

The Centre for Development and the Environment (SUM) at the University of Oslo is the host for Include. Our six other research partners are both universities and research institutes. Durham University, UK, is our dedicated international partner. Further, Include collaborates with 22 committed user partners representing the Norwegian public, private and civil sectors. Our user partners are actively involved in the centre's activities through the FME Board, where they are in the majority, through reference groups under each WP and in project groups for specific projects. They are also invited to take part in FME workshops, lunch seminars and communication activities, sharing knowledge that is crucial for the development of user-relevant research and results.

Research institutions



Partners





03

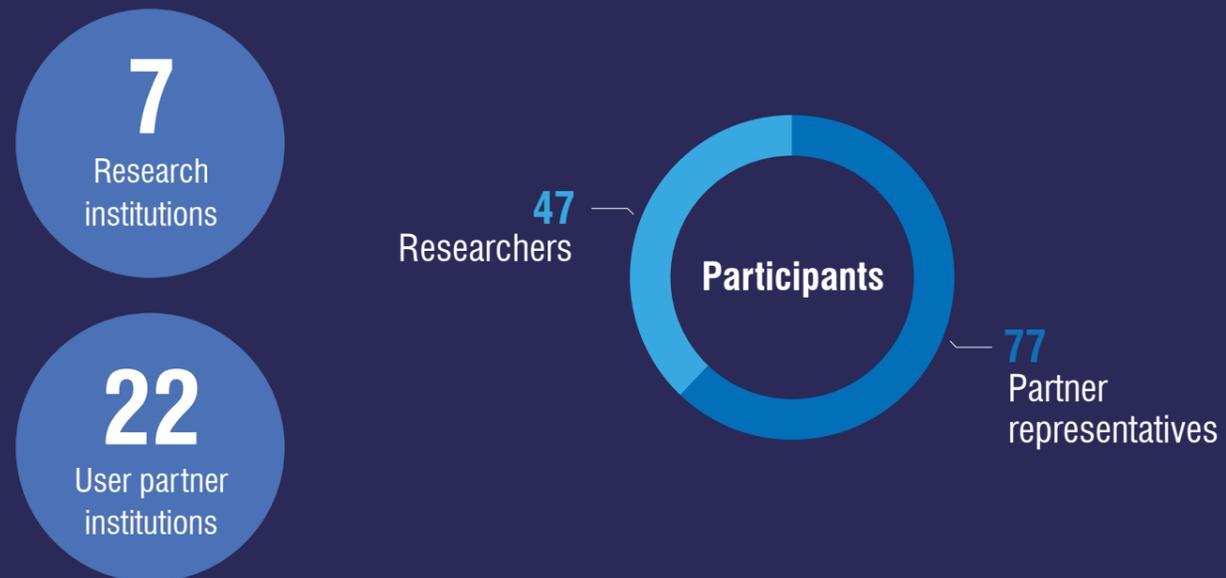
In numbers

Include in numbers

Overall



Team



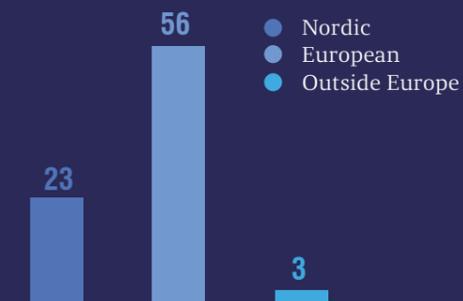
Projects



Projects initiated in 2020

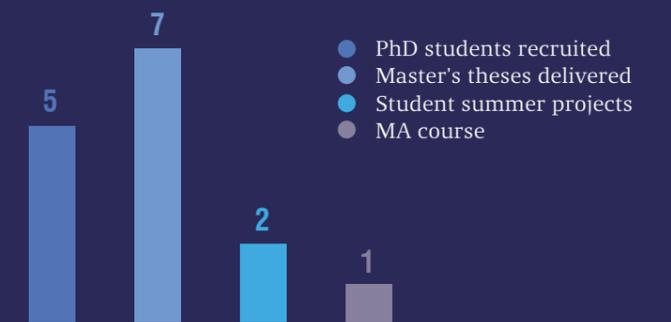


Applications with international partners



Collaboration with international institutions in submitted applications 2020

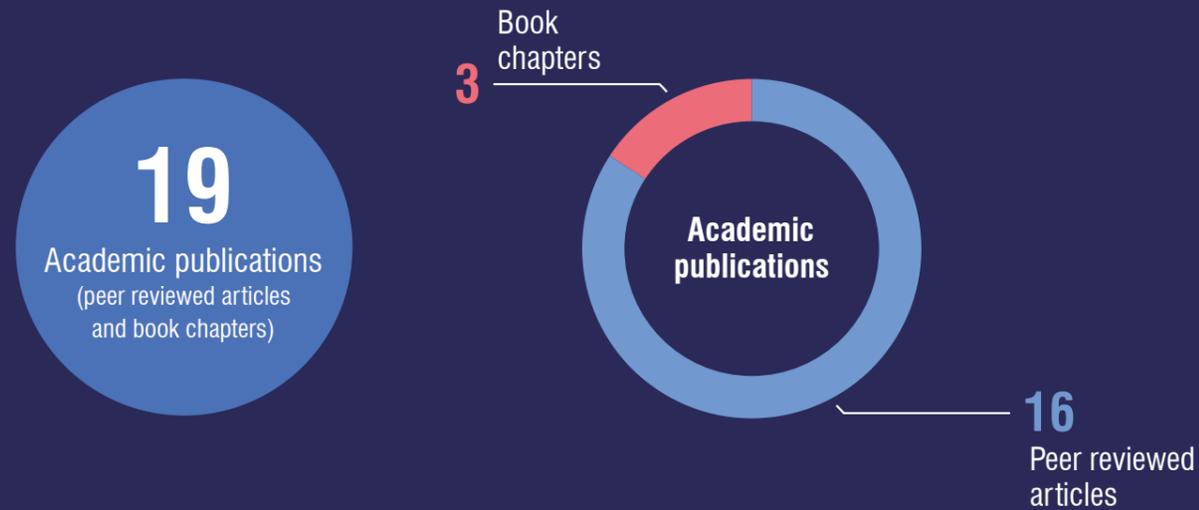
Education



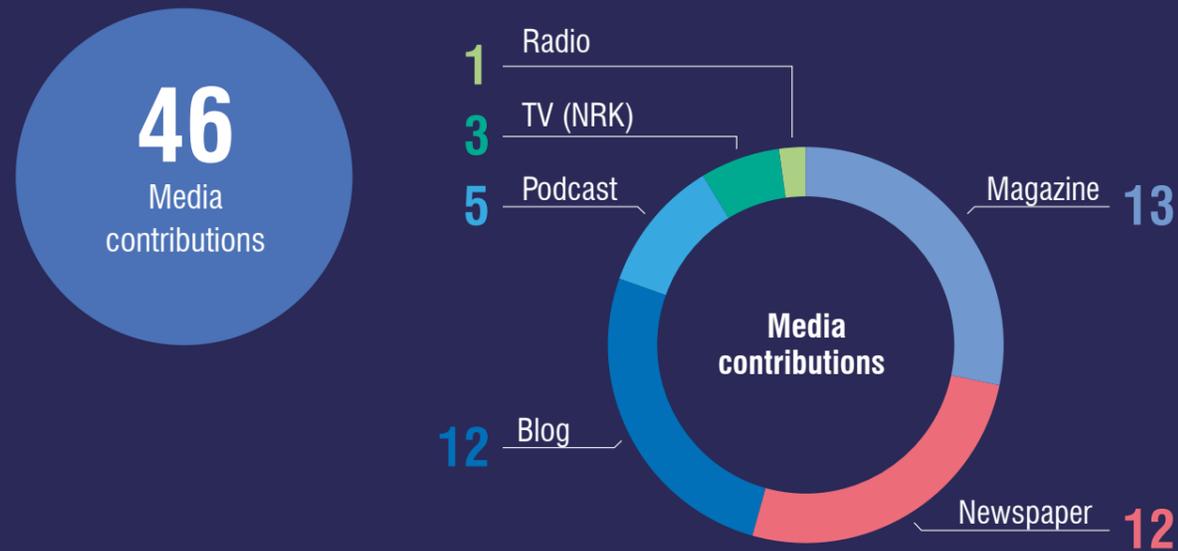
Education 2020

Include in numbers

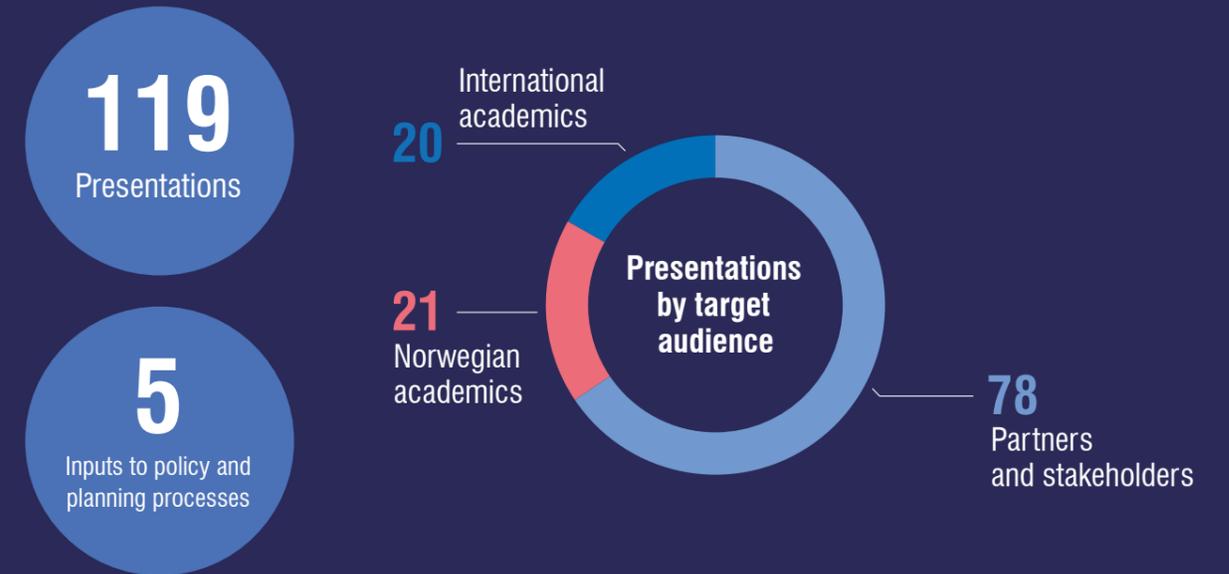
Academic publications



Media contributions



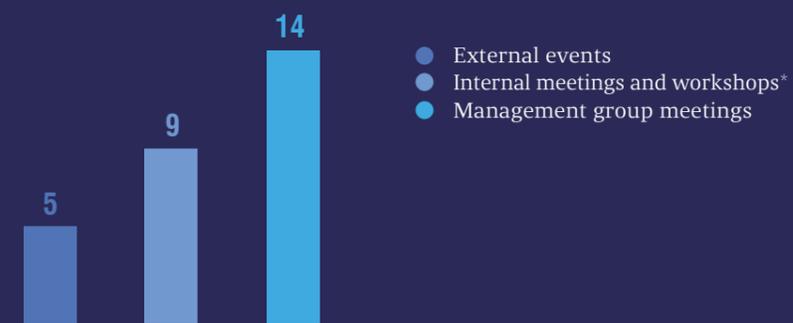
Presentations



Online outreach



Meetings, events and workshops



*including 1 annual meeting and 3 board meetings.



04

Research 2020

Research 2020

Highlight 1

Establishing a rich project portfolio



Through extensive dialogue with the partners, we have developed 39 projects in Include. These comprise larger, multiple-year collaboration projects, researcher projects of shorter duration, and master's and summer projects. In addition, we started up a doctoral project for one PhD student and recruited five others. The projects range widely, but all focus on inclusive transformation processes.

In 2020, we defined and developed 39 projects in Include, where 11 projects are collaborations across our WPs. In most of the projects, researchers and partners collaborate closely throughout the research process. Some projects are also partner led. We held many workshops and meetings to prioritise our research activities. This process was carried out in several steps as follows:

1. The partners gave inputs on their knowledge needs
2. The research group defined a set of criteria for project selection
3. Researchers and partners prioritised and identified the first set of projects
4. The partners prioritised the projects in which they wished to participate

Please see Appendix A for a list of projects defined in 2020 with short descriptions of each project.

WP1 Energy Systems in Transition



THEMES	Restructuring of energy systems	Electrification versus diversification of national energy sources and carriers	Perceptions and implications of EU energy integration for Norway
	PROJECTS	Flexible electricity use (3 projects)	Bioenergy potential
	Winds of change	Municipalities as energy pioneers	
	Collective and tenant prosumers		
	PhD: Consumers' sustainable energy practices		
	PhD: Energy system modelling		

WP2 Energy Spaces and Flows



THEMES	Consumption and the built environment	Social and spatial exclusion/inclusion	Testing planning and design strategies
	PROJECTS	Sustainable housing development	Epidemic vulnerability and urban land-use
	Everyday Covid-19	Urban sprawl	
	PhD: Consumption	Mass landfills	
		Smart and positive satellite cities	
		Truly public spaces	
		Electric vehicles and solar prosumption	

WP3 Municipalities as Change Agents



THEMES	Institutionalisation of climate policies	Involving the local community	Multi-level governance and adaptive co-management
	PhD: Institutionalisation of municipal climate policies	Re-making consumption	Urban Growth Agreements
	Climate budgeting (with PhD)	Local circuits	PhD: Multi-level governance through UGAs
PROJECTS	Greening industrial relations in Norwegian municipalities	Peripheric public participation	
	Network for local circuits	Smaller municipalities	
	Competence building	Education	
		PhD: Circular economy and the role of the municipality	

WP4 Interventions



THEMES
Development of practices and tools

PROJECTS
Social sustainability and co-creation in urban planning (Hovinbyen)

WP5 Learning Across Borders



THEMES
Transformative policies at the municipal level in the UK

PROJECTS
Durham Climate Action Plan Corona strategies

WP6 Synthesis, Education and Communication



THEMES
Synthesis and working across Education Communication

PROJECTS
Conceptual development Master's course SUM4502 Channels for internal communication
Environmental strategy PhD course in collaboration with ISS Events
Travel form Communication strategy
Communicating Include to target groups



↑ Adapting to COVID restrictions. Screenshot from internal workshop, Communication seminar 8. oktober 2020.

How did COVID-19 influence Include?

Include officially started up in January 2020, and the centre was only slightly over two months old when the COVID-19 pandemic hit. Even so, the coronavirus outbreak and the restrictions associated with it did not overly hinder Include's activities in 2020. We used many resources to keep up our activity level, do things in new ways and achieve good processes for developing projects, communication and administration. The clearest consequences of the pandemic and the changes it has brought have been the cancelling of in-person events, meetings and fieldwork. Our kick-off event had to be cancelled entirely. We have saved funds on cancelling in-person events, which have partially been used to strengthen the research group by hiring research assistants (particularly for researchers with young children). The funds that were freed up have also been used to start new projects (COVID-19 research in Norway and Durham and a project on the environmental impact of travel serving as a foundation for Include's environment strategy). These reallocations explain how we have been able to keep our activities at a level that is close to what was budgeted.

As the centre is in its starting phase, and much of our time has gone to planning activities, there has been relatively little need for in-person fieldwork in 2020. However, some

projects started early, and we have also had master's students who have had to change their plans for fieldwork. Interviews have been carried out digitally. This has worked relatively well, particularly because we already know the research areas well for some projects. However, academically, this is an issue in terms of gaining insights into the context and being able to stay in places over time to absorb the context and carry out more spontaneous interviews.

As a whole, the COVID-19 restrictions have brought both challenges and some new opportunities. One positive impact is that the partners outside Oslo (e.g. in Tromsø) have been able to participate in events on 'equal footing' with participants from the Oslo area rather than being the only ones participating over Zoom (and therefore, easily being overlooked or not hearing everything that is said). We have initiated projects that study the impacts of the pandemic on everyday life and mobility. This is an interesting topic for Include because it gives us information on how practices change, are sustained and can potentially be taken forward once the pandemic is over. The restrictions have led to increased digital competence and experience with carrying out data collection digitally. We will take these experiences with us and build on them when the COVID-19 restrictions are lifted.



Include is relevant to the solar power industry in several ways. We want to try to understand why the solar power industry is growing as fast as it is in Norway, almost without any public stimulus. It's important to understand why things are happening in a positive direction as well, not just the negative sides.

Ola Rostad, Norwegian Solar Energy Cluster, Include Partner

Highlight 2

Contributing to regulations for future wind power development in Norway



Research at FNI has laid the foundation for new applications for concessions for wind power development in Norway that will be processed according to the Planning and Building Act. Lars H. Gulbrandsen (FNI) shared these results in the TV programme *The Debate (Debatten)* on NRK. Compared with the current situation, where decisions on wind power development are made by national authorities, the government's proposal appears to give more autonomy to local governments in questions of constructing these facilities.



Roan Wind Farm, Fosen, Norway, Photo: by Statkraft

Glimpses from projects

Everyone onboard! Removing barriers to self-production for collective residents

Prosumerism is one of the key pillars of the energy transition, and it has been a driver for decarbonisation in many countries and regions, including Germany and California. Individuals and households that produce electricity – prosumers – offer entirely new possibilities for the organisation of the electricity system. However, prosumerism also opens up new questions about inequalities and distributional injustice along several dimensions. Policymakers and stakeholders are increasingly recognising that existing support mechanisms and current regulations for prosumers favour already privileged homeowners.

This study investigates the regulatory challenges associated with involving 'collective residents' in the prosumer segment. The background is the large and underexploited potential for solar photovoltaics (PV) on houses where several households share the roof. We investigate the Norwegian case, where this potential is particularly large for housing cooperatives. Because of missing incentives and even disadvantageous regulations, the large potential embedded in the shared rooftops of such cooperatives remains largely untapped in Norway. The study analyses current barriers and possible solutions to these problems. The project will be finalised in 2021.



↑ Co-housing at Findhorn eco-village, Scotland

So far, the data collected show that there are political and regulatory barriers, as well as barriers related to the internal organisation of collective residents/cooperatives. An overall distinction can be made between external and internal barriers. We identify the following external barriers:

- The fee on electricity and grid tariffs amounts to a large share of the total electricity price (often more than 50%) that consumers pay. Single-house residents with solar panels are exempted from these fees. Consumers that produce electricity with a different technology are exempt from the electricity fee. However, collective residents with solar panels are not exempt, primarily because they cannot use the self-produced electricity 'behind the meter'. This is probably the largest economic barrier for cooperatives today. According to EU law, each consumer is entitled to choose an electricity provider; therefore, the distribution system operators (DSOs) also own the grid *within* the housing cooperative. The regulators could have exempted cooperatives from these fees. However, they argue that it is difficult to set the demarcation of 'behind the meter' at a different place than where it actually is (i.e. at the entrance of each apartment).
- It is difficult for cooperatives to apply for support from Enova¹ because the organisation does not offer targeted support arrangements for this type of actor. Today, ENOVA only has specific support programmes for single-family houses and business actors.
- It is not appealing to participate in the green certificate schemes for collective residents because the costs of participating are too high.
- Cooperatives must apply to obtain permission from the municipality to install solar panels, whereas single-family houses are exempt from this rule.

We identify the following internal barriers:

- In the organisation of cooperatives, most residents need to agree to make changes to the parts of the houses that are joint property.
- With today's electricity prices (and the aforementioned external barriers), it does not necessarily make sense to install solar from a purely economic perspective.
- The residents in a cooperative are often a mixed group of people with different perspectives. For older people, it is not so attractive to invest in a technology that takes decades to pay off. In addition, other residents might have short perspectives on how long they are going to stay in the house.

Highlight 3

Revision of the zero-growth goal (ZGG) in accordance with Include researchers' recommendations

With the toll-road agreement that was established before the municipal and county election in 2019, it was decided that the zero-growth goal (ZGG) would be revised; this development can have several social and emissions-related consequences. During work on the revisions of the ZGG (fall 2019–spring 2020), Anders Tønnesen (CICERO) actively contributed to sharing research related to this process. With Aud Tennøy (TØI), he wrote an opinion piece (Dagbladet) and gave presentations in several different arenas, including the National Transport Plan (NTP) conference in December 2019. We note that the changes to the ZGG were made in accordance with the recommendations given by Include's researchers.



1. Enova SF is owned by the Ministry of Climate and Environment and contributes funding to projects reducing greenhouse gas emissions, developing energy and climate technology and strengthening the security of the supply.



Photo by Thomas de LUZE on Unsplash

COVID-19: The impact on everyday lives and mobility

The COVID-19 pandemic is addressed in two Include-projects. *Everyday COVID-19* addresses the impact of coronavirus on the everyday lives of citizens, whereas *Epidemic vulnerability and urban land use* addresses the implications of the COVID-19 pandemic for urban land use and transport.

The *Everyday COVID-19* project addresses how our habits connected to food, travel and leisure have changed during the coronavirus crisis and which of these changes will remain even after the pandemic. By exploring the lived domestic experiences of different social groups during the COVID-19 crisis, the project produces new insights into how ruptures in socio-material systems can work to fundamentally alter or reinforce routine consumption practices – and for whom. The findings are directly relevant to science and policy concerned with understanding everyday consumption.

The project on *Epidemic vulnerability and urban land use* addresses the short-, mid- and long-term implications for urban land use and transport in the face of the 2020 COVID-19 pandemic. The project is formulated in response to the board's request to address COVID-19 implications for Include. The project highlights *distributional justice dimensions* of how pandemic risks are unevenly distributed across the (peri-/sub-)urban landscape, with differential impacts for different population categories and social groups. In addition, the potential decision-making responses by citizens and policymakers to COVID-19 investigated in this project have strong implications for decarbonisation and

energy transition. Some of these responses could reduce energy footprints (e.g. teleworking/video-conferencing, enhanced health concerns and interest in active transport mode usage), but others may have opposite effects (e.g. preferences for dispersed living, reduced attractiveness of public transport, enhanced car dependency). Moreover, any of these structural changes may reinforce existing divides in society or create new ones. We explore the hypothesis of splintering urbanism in relation to the transformations taking place following the COVID-19 situation.

Preliminary results from these two projects show that the COVID-19 pandemic changed our daily mobility. Some changes have had positive environmental implications, including the increased use of bicycles and long-distance travel being replaced by digital meetings. In contrast, other changes, such as avoidance of public transport and increased use of private cars, can have negative environmental effects. The question is which of the changed patterns will persist after the pandemic. The figures also hide large differences between different social groups and geographical areas. The studies indicate that more available time enables sustainable practices, but at the same time, it increases material consumption in terms of, for example, refurbishment. Informants indicate that they want to continue the practice with the home office, have less work travel and spend more time in the local community after the pandemic. An important task for policy and planning in urban areas will be to prevent pandemics from reinforcing existing inequalities while at the same time utilising the opportunities for developing more sustainable practices.

Urban growth agreements (UGAs): Handling urban and regional inequalities

In 2018/19, Norway witnessed massive resistance against toll-road payment and state involvement in local land-use and transport affairs. This initiated a process of renegotiation of the UGAs, a mechanism initiated by the central government to achieve sustainable cities in Norway. In this project, we analyse the public and political resistance to UGAs and ask the following questions:

1. To what extent and how were social inequalities part of the renegotiation process of the UGAs?
2. To what extent and how do the renegotiated UGAs reflect social inequality dimensions?

The study will also give recommendations on how social justice could be dealt with in the UGAs. The project will be finalised in 2021.

The UGAs and the ZGG are currently under revision (2018–2020), and we study them in relation to contextual differences within Norway. There are variations regarding urban structures and car dependency, both between urban regions and within different parts of a given region. Furthermore, the political landscapes differ between the urban regions, including the respective populations' (historical) willingness to make use of car-restrictive measures. Linked to this, there are differences in how the UGAs and the toll-road structures have evolved, how and to what extent the

inhabitants have been involved in the process and how inhabitants have been informed about the presumed benefits resulting from UGA financing. This gives inequalities of access, connectivity and level of participation, posing stern tests for the UGA-structure.

Preliminary results from the project show that the significant resistance against toll roads at Nord-Jæren may largely be attributed to high toll-road fees and rush hour charges. In addition, the resistance may result from a fragmented urban structure and limited supply of public transport solutions. According to our informants, the distributional consequences of tolls are primarily a question of the possibilities to use alternative transport modes rather than private cars, not a question of the ability to pay the tolls. The degree of opposition to UGAs is also related to the characteristics of public transport solutions. In the Trondheim region, the resistance to tolls was significantly lower compared with Nord-Jæren. The Metrobus solution chosen in the Trondheim region required fewer interventions in the urban area and less resumption of private property compared with the Bus Rapid Transit (BRT) system in Nord-Jæren, which required a separate bus lane. Our results illustrate that the level of tolls must be adapted to the opportunities for using alternatives to the private car in the different city regions. The sizes of the different UGAs and their projects must also be dimensioned according to these contextual differences.



City bicycles in Stavanger



The area of Oslo known as Hovinbyen

Co-constructing inclusive Hovinbyen. Pre-project on triggers and barriers for broad participation in Hovinbyen

Oslo is one of the fastest growing cities in Europe. Hovinbyen is an area designated by the city council as the next growth area in Oslo and represents the largest urban development area in the city. The planning horizon is 30–50 years. The area comprises 11 km², making it almost as large as the whole of Oslo's existing inner city. The goal of this project is to identify triggers and barriers for broad participation and system innovation in urban development processes. In it, we identify the main stakeholders and their level of involvement and power in ongoing urban development processes. The project also seeks to identify existing strategies for adapting to climate change in Hovinbyen. The pre-project is connected to ongoing initiatives in Hovinbyen related to Vollebekk Fabrikker and OBOS bostart. A central aim of the pre-project is to identify and define larger projects to be started in 2022.

Vollebekk Fabrikker is part of the Vollebekk urban development project, where large parts of the area will be transformed into a greener district with a focus on the environment and social values in addition to economic growth. Vollebekk Fabrikker may be regarded as an arena for social innovation, an important facilitator for new initiatives and a place where stakeholders may meet, share experiences and develop new partnerships. In the pre-project, we have had a particular interest in Vollebekk Fabrikker as a context for informal learning, and we have worked with non-governmental organisations (NGOs), school owners, teachers and small and medium-sized enterprises (SMEs) to regard this space as a potential hub for the establishment of various initiatives for sustainability in education.

Highlight 4

Award to Include researcher



Marianne Zeyringer (UiO) won third place in the Nordic Energy Challenge 2020 competition by Nordic Energy Research. Her project will combine scientific and artistic methods, and has the title *Unlocking the renewable energy potential in the Nordics – Energy systems modelling as a tool to understand opposition and increase acceptance and collaboration*.



Marianne Zeyringer

Partner-led initiatives where Include participates

Youth climate leadership

Asker municipality is initiating two new pilots focussing on 'Youth climate leadership'. The pilots will address sustainable development of places in Asker, using such tools as *Barnetråkk* – a digital tool where children are invited to share how they use their local environments with local planners, which will extend school-municipal planning collaboration and strengthen the local youth council's involvement in area planning and climate action planning.

Network for local circuits

Our partner KS runs a network for municipalities focussed on local transformation to a low-emission society consisting of 12 dedicated municipalities. The network is based on R&D work on how municipalities may contribute to transforming local communities towards a low-emission society. The network is called 'Kortreist Kvalitet' (KK), which can be translated as 'local circuits with quality'. The Include partners insam, CICERO, SUM and Civitas form the secretariat for the network and are responsible for running the network with KS. Include's finances cover researchers' work. The network activities consist of both network seminars and bottom-up work with municipalities on specific focus areas or pilots. The network also receives funding from Klimasats (a programme funded by the Norwegian Environment Agency – also a partner in Include). In 2020, we arranged two network seminars digitally because of corona restrictions. The first seminar was aimed at discussing the coronavirus crisis and sustainable crisis management. The second was arranged in collaboration with our partner Asker, concentrating on their work on climate mitigation and measures for sustainable consumption. Between these seminars, the secretariat had meetings with the participating municipalities to follow up on their work.



↑ The geographical centre of Norway. The KK-network focuses on local circuits in a country characterised by large distances.



Rådhus Asker

Competence building on climate transformation in municipalities

Our partner Asker leads a project funded by Klimasats and partners to build competence on climate transformation. This is a pre-project aimed at establishing a model for competence building on transformative change towards municipal administrative personnel and politicians (through trainings for local elected officials). KS, CICERO, insam, USN and UiO are partners. Include finances cover researchers' work. The project started in 2020 and will be finalised in 2021.



As a new research arena, Include will work with the same things that we're trying to do right now, to create holistic strategies for sustainability where housing, mobility, food and consumption are included.

Rolf Jacobsen, Gaia Arkitekter, Include Researcher

Synthesis and cross-cutting innovations



Working with concepts and developing a vocabulary for communication

We established a group of researchers, led by Kacper Szulecki, to work with theoretical concepts (justice, democracy, inclusiveness) and explore how different disciplines understand these notions. The purpose is to lay the groundwork for synthesis work involving different disciplines in Include. Two outputs resulted in 2020: First, Szulecki started to co-author an article on energy justice and energy democracy with Kirsten Jenkins and others. Second, via internal workshops, the whole consortium participated in discussions about key concepts, which will result in an Include glossary in Norwegian in 2021.



I think Include is really important because we need a better understanding of how we manage to achieve changes in society. When we're now going to decarbonise the world and Norway, we need to understand – where are the barriers, and how can we stimulate that development? And if we're going to understand this, we need to bring along everyone, and that means that we need to find mechanisms that work much better than a lot of the mechanisms we have today.

Ola Rostad, Norwegian Solar Energy Cluster, Include Partner

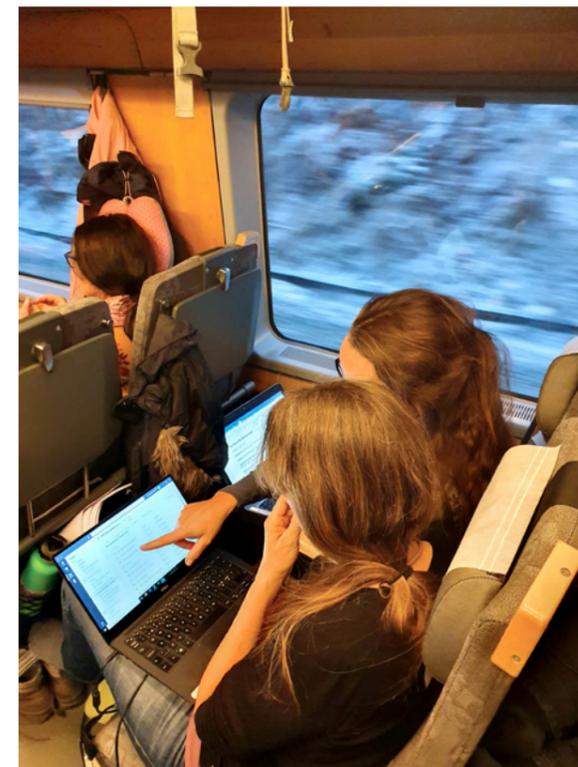
Environmental strategy and travel form

In 2020, we developed Include's environmental strategy. It sets guidelines for the participating research institutions and those delivering services to the FME to ensure that the activities are carried out in the most environmentally friendly way possible. The objectives are as follows:

- To ensure that the centre's practices rapidly adopt and promote best practice environmental solutions as appropriate.
- To increase awareness among participants in Include, their host institutions and the wider community about environmentally friendly practices.

In Include's activities, travel and food consumption are two domains with a high environmental impact that may potentially be reduced. When travelling, Include researchers and administrative staff should look for the most environmentally friendly way of travelling. For instance, they can actively decide against some work travels and find alternatives to flying, especially for travels in Northern Europe. While travel primarily relates to emissions, the realm of food concerns other kinds of environmental impacts (e.g. negative effects of pesticides and fertilisers). Include's code of conduct when ordering or serving food is to select sustainable menus that reflect local and seasonal availability and include vegan, vegetarian and organic options, as well as reducing food waste by avoiding excess ordering.

We wanted to do this thoroughly, with the prospect that other organisations could take inspiration from our work. We organised a short project in 2020 to establish a system for tracking emissions from travel undertaken by Include staff. The resulting travel registration form follows Include's guidelines for calculating carbon emissions, which consider indirect emissions from different modes of transportation, a factor that is often omitted from these kinds of calculators. Include researchers are expected to fill in this form when they travel on behalf of Include. Additional costs incurred from choosing sustainable modes of transportation, such as additional hotel nights and more expensive travel options, are covered by Include's budget.



↑ Sustainable modes of transport: Head of Include, Tanja Winther and FME Coordinator, Hege Westskog, traveling from Oslo to Tromsø by train and bus.

Highlight 5

Contribution to further developing the European Research Area (ERA)

In the spring of 2020, Include researchers were invited by the Ministry of Education and Research to contribute inputs to Norway's response to the EU Commission's work on the new vision for the European Research Area (ERA). In the Ministry's response to the EU, several of Include's inputs were put forward; these are as follows: the need to pay attention to the distribution of burdens in the transition to low-emission society; the need for perspectives from the social sciences to be given sufficient attention; and the need for user involvement. The RCN has expressed that these inputs will be important in relation to goals and prioritisation in the upcoming RCN portfolio on energy, transport and low emissions.



Work with innovation and documentation of impact

Innovations and experiments will become a core activity in WP4. As initially planned, researchers and partners collaborated closely in 2020 to identify the first set of projects in Include. In later years, when we have empirical results available and the partners have established a more enduring relationship, we will identify experimental zones and test out promising solutions.

Documenting the impact of critical social science research is a general challenge. Observable impacts can be in the form of changes in policy, regulations and processes, but attribution is often a problem because there can be many drivers for change at work simultaneously.

To document Include's impact, we will largely rely on the assessment and feedback from individual decision makers and people representing other groups. In 2020, in situations where we were invited to comment on policies or research strategies, we asked the person who invited us to signal whether and how our inputs had been used after we made our contribution. We systematically register such feedback in Include's internal record AirTable.

Tanja Winther and Ole Smørdal regularly take part in the FME Innovation Forum, currently led by NTRANS/NTNU. Participating in three meetings in 2020 gave us insight into the ways other centres handle impact documentation. This illustrated to us that the impact criteria developed for natural sciences and engineering do not always apply/make sense for social science research. Hence, impact criteria for social science need to be developed separately.

Cross-WP collaboration

Working across WPs to ensure synthesis and collaboration is important to spur interdisciplinarity and help develop a comprehensive understanding of transformation. The Include team regularly meets to share perspectives and research results. In addition, 11 of the projects that were defined in 2020 are designed as collaborations across work packages. These projects address topics that are relevant to the goals of two or more WPs and involve researchers attached to different WPs in Include.

Cross-WP projects defined in 2020:

1. The municipality as energy pioneer (WP1 and WP3)
2. Winds of change (WP1 and WP3)
3. Sustainable housing developments (WP2 and WP3)
4. Mass landfills – a pilot study (WP2 and WP3)
5. Education (WP3 and WP4)
6. Re-making consumption (WP3 and WP2)
7. Local circuits (WP3 and WP2)
8. Peripheral public participation (WP3, WP4 and WP2)
9. Hovinbyen – pre-study (WP4 and WP2)
10. Durham climate action plan (WP5 and WP3)
11. Corona strategies (WP5 and WP3)

For more information about these projects, please see Appendix A.



The project *re-making consumption* looks at local initiatives for sustainable consumption

Traces of Include: Impact

Contribution to regulations for future wind power development in Norway

Research at FNI has laid the foundation for new applications for concessions for wind power development in Norway that will be processed according to the Planning and Building Act. Lars H. Gulbrandsen (FNI) shared these results in the TV programme *The Debate (Debatten)* on NRK. Compared with the current situation, where decisions on wind power development are made by national authorities, the government's proposal appears to give more autonomy to local governments in questions of constructing these facilities.

Revision of the ZGG in accordance with Include researchers' recommendations

With the toll-road agreement that was established before the municipal and county election in 2019, it was decided that the ZGG would be revised; this development can have several social and emissions-related consequences. During work on the revisions of the ZGG (fall 2019–spring 2020), Anders Tønnesen (CICERO) actively contributed to sharing research related to this process. With Aud Tennøy (TØI), he wrote an opinion piece (Dagbladet) and gave presentations in several different arenas, including the National Transport plan (NTP) conference in December 2019. We note that the changes to the ZGG were made in accordance with the recommendations given by Include's researchers.

Contribution to further developing the ERA

In the spring of 2020, Include researchers were invited by the Ministry of Education and Research to contribute inputs to Norway's response to the EU Commission's work on the new vision for the ERA. In the Ministry's response to the EU, several of Include's inputs were put forward; these are as follows: the need to pay attention to the distribution of burdens in the transition to low-emission society; the need for perspectives from the social sciences to be given sufficient attention; and the need for user involvement. The RCN has expressed that these inputs will be important in relation to goals and prioritisation in the upcoming RCN portfolio on energy, transport and low emissions.

Inputs to KS's work on wind power policy

KS expresses that they:

'have had great use for publications and research carried out at FNI in the organisation's academic work on Norwegian wind power policy and the concession system, hereunder development of hearing responses to both

the National Framework for Wind Power on Land and the White Paper on Wind Power. The researchers at FNI have also been important contributors to the political discussion on wind power, the concession system and the laws, by developing an evidence-based foundation, producing documentation and giving perspectives, which have been especially important to actors who are based outside the areas where wind power facilities are located'.

Inputs to Norwegian Water Resources and Energy Directorate's (NVE's) development of energy models

Tor Håkon J. Inderberg (FNI) and colleagues have been in dialogue with NVE to discuss how social factors can be handled in energy modelling, for example, in relation to acceptance of wind power projects. Include is supporting a PhD project on this topic. NVE is interested in taking the results and methods into use when they have been further developed and tested.

Inputs to Asker municipality's work on new forms of housing

Fride Sofie Spjelkavik Larsen wrote her master's thesis in Include on Vindmøllebakken in Stavanger – a sustainable collective housing project. Based on her work, she was invited by Asker municipality to participate in a reference group on new forms of housing in Asker, with a focus on collective solutions that span generations.

Implementing 'Kortreist Kvalitet (Local Circuit Quality)' as a foundation for climate strategies in Norwegian municipalities

Kortreist KvalitetKK springs out of an R&D initiative in KS in which Include's researchers have been central. KS has established a network consisting of 11 municipalities and counties, which will put the recommendations from the initial work into practice. Hege Westskog and colleagues from CICERO, insam and Civitas, as well as Kjetil Bjørklund (KS), have participated in fifty-odd seminars to share the results and communicate how municipalities can use KK as a foundation for their climate strategies. Several municipalities and counties are now using the framework from KK as the foundation for their strategies (e.g. Trøndelag county, 'How we do it in Trøndelag', and Overhalla municipality).



Development of capacity among school students in Asker municipality to reduce food waste (with Future in our hands)

Ole Smørdal (UiO) has followed the Matvinn project, an educational programme developed by FIVH and tested among junior high schools in Asker municipality. In Matvinn, the climate calculator Ducky is used, and students develop the capacity to act through theory, discussion and practical cooking. The goal is that they will be able to contribute to reduced food waste by becoming more confident in judging food items and the climate consequences of food waste. This work has uncovered a need to sharpen the focus on critical thinking as a goal in the revision of the Norwegian educational system related to sustainability; it has shown that external actors need to be more conscious of involving teachers in the development of these kinds of educational programmes, and these programmes must be adapted to the school's practices. Include will continue working to further develop this important educational programme.



A-Lab is part of Include to participate in developing new knowledge that we can't find today, which we need to make well-informed choices for our cities.

Julie Sjøwall Oftedal, A-lab Architects, Include Partner

Inputs to Durham City Council (DCC) with respect to planning of climate measures following the COVID-19 pandemic

In March 2020, Simone Abram at Durham University wrote an article in the journal *Conversation* focussing on how the coronavirus has led to a sharp reduction in CO2 emissions and what we can do to keep this reduction after the pandemic is over. She argues that the COVID-19 crisis feels more acute than the climate crisis, and the measures that are implemented give an opportunity space for setting climate initiatives higher on the agenda. DCC (UK) is using the article as a foundation to plan climate initiatives after the COVID-19 pandemic is over.

Just transformations are a topic discussed in partner organisations more often

Several of Include's partners, such as the Environment Agency and A-lab, highlight that, after joining the centre, they talk more often about just transformations internally in their organisations.



05

Research training and
education 2020

Research training and education 2020

PhD training, recruitment and projects

PhD course: The implications of COVID-19 for socially inclusive transformations to sustainability

In December 2020, Include co-organised a PhD course with the Department of Sociology and Human Geography at the University of Oslo. The course focussed on socially inclusive and sustainable responses to COVID-19. Lectures emphasised the social, economic, political and environmental implications of the COVID-19 pandemic, with particular attention to equitable and inclusive responses to both the pandemic and sustainability challenges in urban areas.

PhD projects and recruitment

During 2020, we recruited five PhD students to start either in 2020 or in 2021.



Ingrid Christensen

Title of project (preliminary): The circular economy and the role of municipalities. Affiliation: CICERO



PhD at TØI

Title of project (preliminary): Multi-level governance through urban growth agreements.



Eivind Hjort Matthiasen

Title of project: Understanding consumers' capacity to transition to sustainable energy practices: A level playing field or a pipe dream? Affiliation: FNI



Johannes Volden

Title of project: Towards a sustainable protein system? Mapping barriers and opportunities for upscaling sustainable protein consumption in Norwegian households. Affiliation: SUM, UiO



Oskar Vågerö

Title of project: Social acceptance and energy justice in energy systems modelling. Affiliation: Department of Technology Systems, UiO

PhD project: Oskar Vågerö



Roan Wind Farm, Fosen, Norway, Photo: by Statkraft

Designing socially inclusive low-carbon energy systems: Social acceptance and energy justice aspects in energy systems modelling

Energy and power system models are useful tools that generate insights for low-carbon transition pathways and for the design of energy policies. The models operate at a high level of techno-economic detail and usually focus on identifying cost-optimal solutions to problems or scenarios because the techno-economic factors are usually predictable and lend themselves to modelling. However, one of the current challenges of energy modelling lies in capturing social aspects of energy systems, such as political will, behavioural aspects and public acceptance. As such, critics point out that the modelling results may be unreliable and inaccurate as, for example, behavioural and political drivers of energy demand and policy are underrepresented compared with the techno-economic details of the models. Although modelling scholars agree that there are limits to their models, some may argue that their use as decision-making tools is more relevant from an epistemological point of view. Therefore, improving these models to better account for social aspects present an opportunity to inform policymakers on how long-term

changes in energy systems may affect different groups of society and how to design socially just and inclusive energy systems.

The intention of this thesis is to explore how social aspects of energy systems may be included in energy and power system models as a way to facilitate the design of socially just low-carbon energy systems. We will approach the topic through a case study on the social acceptance of wind power in Norway and with the help of the energy justice framework. In the first journal article, through a literature review and an interdisciplinary workshop, we will explore the current inclusion of justice within energy and power systems modelling and the applicability of the energy justice framework in this academic discipline. The second journal article will involve designing a methodology and framework for the quantification of spatially varying community acceptance towards wind power in Norway, as well as related data collection. The third and fourth journal articles will then apply the insight from the two previous articles in both a power and an energy system model to analyse what impact the inclusion of these aspects would have on the design of a Norwegian interconnected net zero carbon power and energy system.

Master courses and projects

Master's course: SUM4502 INCLUDE – Socially inclusive energy transition (5 ETC)

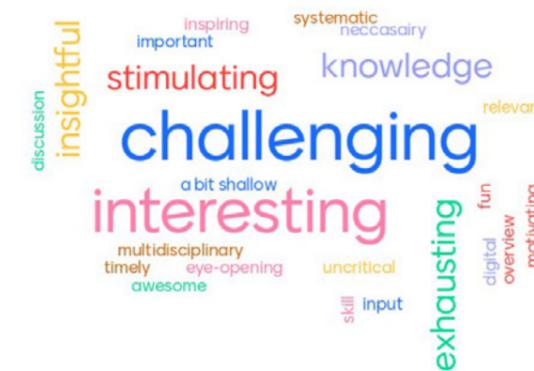
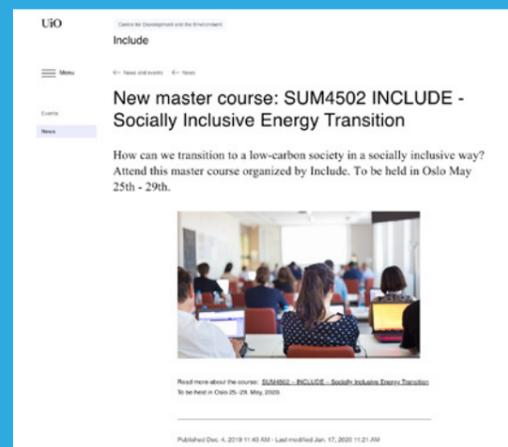
A core group of 13 Include researchers developed and held a new master's course. The course was carried out as a one-week intensive course between 25 and 29 May 2020, and it concluded with a three-day home exam. It was open to both current master's students and guest students currently working in relevant fields who were given the option of taking the course as a certificate. Senior members of the Include research team developed the course content and served as lecturers. The course had 27 participants, 19 of whom were master's students at the University of Oslo, 2 master's students from international institutions and 6 professionals from relevant fields and PhD students who took the course as a certificate.

This course addresses a critical question: How can we transition to a climate and environmentally friendly society in a socially inclusive way? Given the urgency of combatting climate change, there is a risk that measures to reduce emissions and avoid environmental degradation will ignore social and distributional aspects. To pre-empt this risk, this course highlights the concepts of energy and environmental justice and social inclusion. This means paying attention to distributional aspects and questions of who are recognised as stakeholders and become participants in the transformation process. We address energy in various forms and as exploited by various technologies: stationary energy (e.g. heating of houses), transport/mobility and embodied energy (e.g. as measured through life cycle analysis and consumption-based carbon accounting). The course is focussed on socially inclusive solutions, particularly the role municipalities can play in reaching socially inclusive transformations to a climate and environmentally friendly society through co-creation of solutions with researchers. The aim of the course is to prepare the students for understanding these phenomena from an interdisciplinary, social science perspective, as well as to reflect on implications for policy and practice. Twenty students submitted a course evaluation.

Highlight 6

A new master's course in Include

During spring 2020, 13 Include researchers contributed to our new master's course, 'SUM4502 INCLUDE – Socially inclusive energy transition' (UiO). 27 students participated and their course evaluations were overwhelmingly positive. The course will be held again in 2021. It is open to both current students and others who are interested in participating.



Word cloud of students' assessments of the Include master's course



Word cloud from Include master's course describing students' hopes for the future.

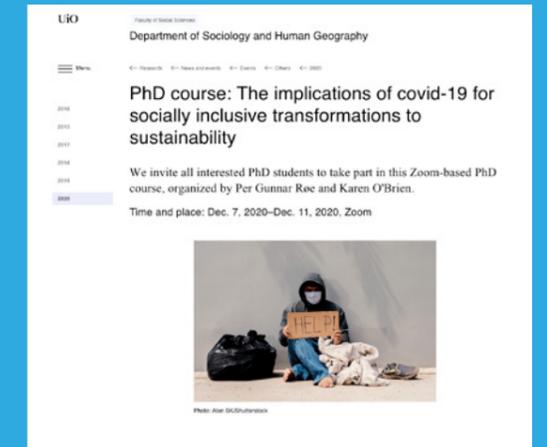
Master's projects and summer projects

Since starting up, Include has tried to recruit master's students studying relevant fields to write their master's theses on topics relevant to the centre. In 2020, Include awarded master's stipends to two students writing their theses on the topics of energy poverty and sustainable housing. Two students were also awarded stipends to write their theses on the social and environmental implications of the COVID-19 pandemic; both students will deliver their theses in 2021. An additional six master's students were affiliated with Include without stipends, and they delivered theses on the topics of sustainability in education (two students), placemaking in Oslo, food systems transformation, the Sami indigenous population in Norway and wind power development, and municipalities' role in the sharing economy. In addition, five students were recruited to carry out two summer projects in 2019 and two in 2020 on the role of justice and equity in energy transition, consumption-based carbon accounting, toll-road discontent in light of geographies of car dependency and incorporating social dimensions into energy modelling.

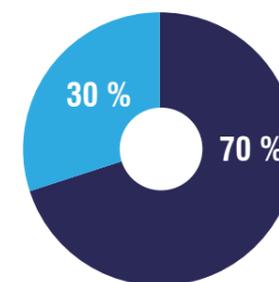
Highlight 7

PhD course on the implications of COVID-19 for socially inclusive sustainability transformations

The PhD course titled 'The implications of COVID-19 for socially inclusive transformations to sustainability' (UiO) was organised by Include researchers and involves international experts on sustainable urban development and health. The course is funded by the RCN programme – SAMEVAL, and it was held in December 2020.



Master's course evaluation 2020



'The course has helped me understand how theories and concepts on socially inclusive energy transition can be applied in empirical studies on stationary energy transition, mobility, consumption, public planning and innovation'

- To a high extent
- To some extent
- To a low extent/not at all
- Don't know

Summaries of Include master's and summer projects in 2020



'Where no one is poor, and energy is abundant': A study of energy poverty in Norwegian households

By Torjus Lunder, Master's Student in Development, Environment and Cultural Change, University of Oslo (Stipend Recipient)

Nearly 50 million EU citizens are affected by energy poverty, generally defined as inadequate use of domestic energy services. However, while extensive research has been conducted on the impacts of energy poverty on households in the EU, little is known about this in Norway. Norway is one of the most income-equal countries in the world, as well as a country with historically low electricity prices. Despite this, if some Norwegian households continue to live in energy poverty, they may endure the double trauma of being energy poor while not being recognised as such. The aim of this qualitative study was to explore how Norwegian households experience, cope with and make changes in response to energy poverty. The study finds that a lack of financial independence; social capital in the form of family, social and material dimensions to housing and energy consumption; and normative expectations of energy use have implications for how energy poverty is experienced by households. A group of younger interviewees feel marginalised, having to limit energy use extensively, cut food costs, rely on financial support from parents and isolate themselves to pay high energy bills in the colder months. They feel unable to live 'normal' lives and struggle with feelings of shame, embarrassment and stigma. A group of older interviewees are less vulnerable because they have more stable sources of income, draw on cheap or free firewood and have stronger social capital in the form of their children.



Shared living from a sustainability perspective. A qualitative case study of Vindmøllebakken

By Frida Sofie Spjelkavik Larsen, Master's Student in Human Geography, University of Oslo (Stipend Recipient)

This thesis studies the Vindmøllebakken sustainable housing collective in Stavanger, a pilot project following the 'Gaining by Sharing' model. The goal is to research whether Vindmøllebakken represents a housing model that can enable more sustainable everyday life by achieving both social and environmental benefits. The project focusses on the residents' experiences of social life in shared housing through aspects such as community, social capital and social inclusion, as well as whether the housing enables transition to more environmentally friendly practices. The study shows that the use of communal areas and cooperation gives benefits in the form of community and social ties between the residents. Environmentally friendly building solutions, sharing and communal activities enable sustainable practices. At the same time, aspects of this model can be difficult to upscale widely in a Norwegian context. There is a need for more cultural and institutional anchoring, public support schemes, and innovation in an established building sector for this to become a more widespread and accessible housing model in the future.



Pro-environment behaviour or capacity to act? A case study of Future in our hands's (FIVH) work on sustainable development in the 'Food and Health' course in junior high schools

By Margret Sævarsdottir & Marit Hovland, Master's Students in Pedagogy, University of Oslo

This master's thesis studies an educational programme developed by the civil society organisation FIVH on sustainability and food waste. In the revision of the Norwegian educational system sustainable development will become a focus area across all subjects, with an emphasis on developing students' capacity to act ethically and be environmentally conscious. In light of this, this project studies how sustainability and the capacity to act were highlighted in the Matvinn educational programme, as well as how teachers use this in their teaching. Further, the project investigates how the different parts of the Matvinn workshop contribute to promoting capacity within sustainability and food waste and how the different parts work together as a course design. The study shows that the workshop gives little space for reflection and critical thinking, which are key to developing the capacity to act. A greater focus on dialogue and critical reflection could enable teachers to integrate the programme into their educational practices more effectively. The project recommends an improved course design that focusses on teachers' ownership of the programme, draws on the digital climate calculator Ducky and includes the school and school owner as active participants.



Exploring placemaking in Oslo – Critical perspectives on the 'making' of places

By Clara Julia Reich, Master's Student in Development, Environment and Cultural Change, University of Oslo

High urbanisation rates bear potentials for innovations, including adaptation to climate change and transformations towards sustainability. However, urbanisation also involves risks of increasing social inequalities, gentrification and displacement and raises questions about how to create liveable and sustainable public spaces. One approach to dealing with this is placemaking, which has emerged as a movement, concept and tool for improving public spaces since the 1960s. This project analyses placemaking in Oslo, drawing on critical perspectives on placemaking and the engaged programme in science and technology studies. The analysis shows that people realising placemaking in Oslo can be categorised into three groups: top-down public sector actors, bottom-up grassroots actors and placemaking professionals. The collaboration between top-down and bottom-up actors is particularly challenging due to public regulations, municipal processes, structures and communication issues. To evaluate whether placemaking is de facto improving public places, potential negative environmental and social outcomes of placemaking need to be assessed further, for example, how power structures, dynamics and place narratives are at play in the case studies.

Summaries of Include master's and summer projects in 2020



Cream of the crop? A study of consumers in the alternative food network REKO in Oslo and sustainable transitions in the Norwegian food system

By Nora May Engeseth, Master's Student in Development, Environment and Cultural Change, University of Oslo

Locked in a global system of unsustainable production, processing, distribution and disposal, the current food consumption practices of Norwegians contribute to environmental degradation, climate change and social injustices. In response to these issues, a growing number of alternative food networks seek to transform unsustainable processes of food provisioning, simultaneously negotiating what good food is and should be. However, these initiatives raise questions about the potential of niche food systems to bring about change. This thesis analyses the sustainability transition challenges of the Norwegian food system by examining the engagement of consumers in two REKO (network for *Rettferdig Konsum* - just consumption) rings in Oslo. REKO is a network that uses an online platform to facilitate local and direct trade between consumers and producers. The analysis showed that REKO consumption is a niche activity within routinised everyday life food consumption. The momentum of niches and landscape-level pressures needs to intersect with changes in food practices for there to be a chance of reconfiguring the unsustainable food provisioning regimes of the Norwegian and global food systems. Moreover, there is an opportunity to reframe and make the REKO network easier to use. Doing so may reconfigure unsustainable consumption practices at the level of niche innovations, if not of the food system.



Finnskogen up in the air? A comparison of energy justice and the role of Skogfinnerne in wind power development on the Norwegian and Swedish side of Finnskogen

By Nora Maria Rognstad, Master's Student in City and Regional Planning, Norwegian University of Life Sciences

This thesis compares two specific wind power projects in Finnskogen, a landscape area along both sides of the Norwegian/Swedish border, between Innlandet in Norway and Värmland in Sweden. The area is named after the 'Skogfinner', who are recognised as a national minority group in both Norway and Sweden. Preserving Finnskogen's nature is important for re-telling the Skogfinner's cultural heritage. In contrast, the area's wind and waterfalls carry great potential for renewable energy. The thesis is a comparative study of the Norwegian and Swedish licensing processes for wind power in this area, in light of energy justice. The project asked how Skogfinner are recognised, involved and compensated in relation to wind turbine installations on the Norwegian and Swedish sides of Finnskogen, and what factors may explain the different outcomes. The research finds a lower degree of recognition of Skogfinner in Norway than Sweden and draws possible factors that may have influenced and contributed to inequalities between the Norwegian and Swedish licensing processes.



The role of municipalities in non-profit sharing schemes: A study of how municipalities can contribute to the establishment, operation and expansion of non-profit sharing schemes

By Malin Whittaker, Master's Student in Environment and Society Studies, Radboud University

The sharing economy is emerging all over the world and is showing promising signs of contributing to sustainable consumption and production. The aim of this thesis was to analyse how municipalities can contribute to the establishment, long-term operation and expansion of non-profit sharing schemes. This was done through a multiple-case study of the two Swedish municipalities, Gothenburg and Karlstad. The results show that while municipalities engage in different kinds of measures when governing non-profit sharing schemes, the provision of premises and financial support were found to be highly likely to contribute to the material, human and financial resources needed by the non-profit sharing schemes. Finally, it was found that the political orientation in the municipality, motivations of civil servants, laws and societal trends function as enabling or impeding factors for the municipalities' work.



Energy modelling and social factors

Summer Project by Sigurd Arntzen, Associated with Department for Technology Systems, UiO

Energy system models are often used to map out the transition to zero carbon energy systems, but they usually lack a representation of social factors that may shape and affect the real energy transition. In this study, ways of incorporating social factors in energy system models are suggested, making the model solutions efficient and socially inclusive. This is done by looking at the implementation of wind power in Norway, which has proven to be controversial. By considering the development of wind power plants and their social acceptance, the study identifies some common assumptions about wind power opposition. These assumptions are underlying in the energy system models, and therefore, they will bias the solutions presented by the models. As a consequence, the study suggests that energy system models should be made more sensitive to local communities by either mapping out social interest in a more extensive way or by allowing for a segmented discount rate.



Toll-road resistance in the cities: An analysis of toll-road discontent seen in relation to toll-road structures in Oslo, Bergen, Nord-Jæren and Trondheim

Summer Project by Tora Voll Dombu, Brage Vagli Østbye and Morten Letnes, Associated with TØI and UiO

The goal of this project was to describe the background, history and structure of the toll-road system in the four largest Norwegian city regions (Oslo, Bergen, Stavanger/Nord-Jæren and Trondheim), as well as the level of discontent with the toll-road system in these areas. The project studies the relationship between the different toll

structures in these cities to understand resistance against road tolls. The study shows that many who are discontent with the toll system feel that road tolls have asymmetrical and unjust impacts, public transport is not a feasible alternative for many people and the funding from road tolls goes to measures from which they do not benefit. The study concludes that a 'creeping' change in the rhetoric and aims of the toll system can weaken the system's legitimacy and the perceived value of the tolls; the timing, content and extent of the changes introduced to the system have an impact on how resistance is mobilised; and the spatial orientation of the system is important for understanding resistance to tolls, with Nord-Jæren in particular having a different orientation than the other city regions do.



06

International
cooperation

International cooperation



One of the really valuable parts of Include is that it has an international dimension, and we're really glad at Durham to be part of this project. It is interesting to compare Durham with Norway. So we think we can have some interesting things to say and compare with Norway and think about which factors really make a difference – what's the impact of austerity, what's the impact of different political directions, how can decarbonisation work across those differences, and what can we learn from each other?

Simone Abram, Durham University, Include WP Leader

Include benefits from collaborating with four senior researchers associated with Include-partner Durham University, UK, and one scholar from Edinburgh University. The leader of the Durham team, Simone Abram, forms part of Include's management group and regularly keeps in touch with the researchers in Oslo. The other members from Durham each have their field of expertise that they brought into the main group from time to time, for example, during an internal Christmas event for researchers. Kirsten Jenkins, an internationally leading scholar on energy justice, collaborated with Include researcher Kacper Szulecki (UiO) to examine how energy justice and energy democracy can mutually nurture each other as concepts. Include's Advisory Board has nine distinguished international scholars with backgrounds that make them highly suited for dialogue and collaboration with researchers, practitioners, PhD fellows and students in Include. Roger Keil collaborated with Per Gunnar Røe's (UiO) group in a research project, Lars Coenen contributed with a lecture in our master's course SUM4502 Include and Katarina Eckerberg and Desmond McNeill participated in a workshop to discuss and develop plans for communication.



Alan Warde

Institute of Sociology, School of Social Sciences, University of Manchester, UK



Janet Stephenson

Centre for Sustainability, University of Otago, New Zealand.



Roger Keil

Faculty of Environmental Studies, York University, Toronto, Canada



Desmond McNeill

Centre for Development and the Environment, University of Oslo, Norway



Mariëtte de Haan

Faculty of Social and Behavioural Sciences, Utrecht University, the Netherlands



Michèle Knodt

Institute for Political Science, TU Darmstadt, Germany



Lars Coenen

Mohn Centre for Innovation and Regional Development, Western Norway University of Applied Sciences, Norway



Simin Davoudi

School of Architecture, Planning & Landscape, University of Newcastle, UK



Katarina Eckerberg

Department of Political Science, Umeå University, Sweden

In publications

Include researchers also collaborate with international researchers and Norwegian researchers outside the Include consortium in their publications. Five non-Include Norwegian institutions and three European institutions are represented in our publication list.

Presentations to international audiences

In 2019 and 2020, Include researchers gave 20 presentations at international conferences, one of which was a keynote presentation given by Gavin Bridge (Durham University), *What works 2019: Bridging research and policy on sustainable development in Oslo, Norway*.

Research applications with international partners

In 2020, the Include team participated in or led a substantial number of applications (18), all involving international research partners². The table below gives an overview of the initiatives and collaborating partners. In total, these applications involved collaboration with 23 Nordic, 56 European and 3 non-European institutions outside the Include consortium.

Table II. Research applications with international partners

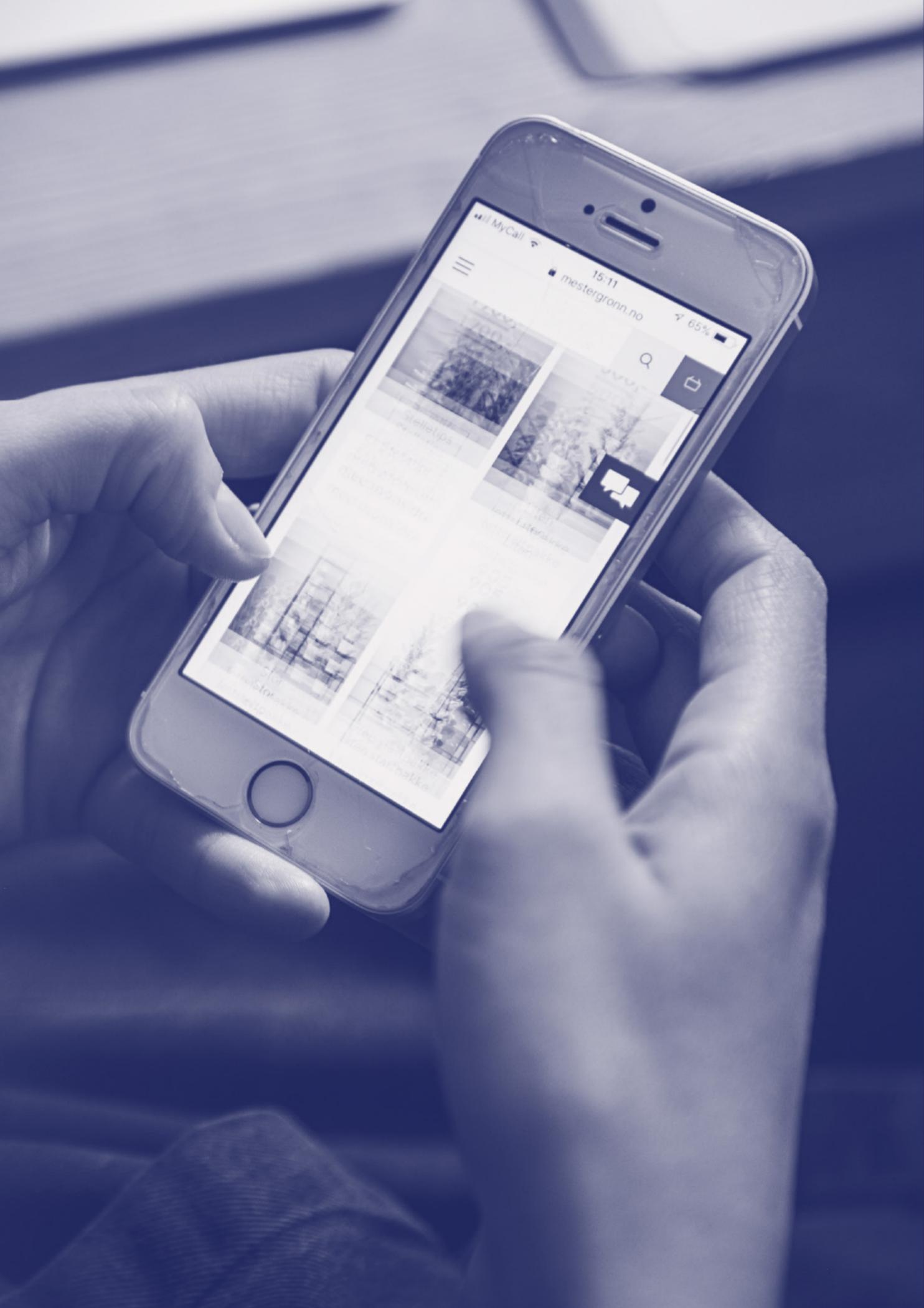
Application title	Applicant/project leader	Funding agency/programme	National and international research collaboration
COVID-19 outbreak and the (behavioural) social-health-economic impacts (EPITRANS)	TØI (NO)	Horizon 2020	NMBU (NO), University of Natural Resources and Life Sciences Vienna (AT), University of Malta (MT), UAV (IT), KTH (SE), Karlstad University (SE), TU Delft (NL), TU Dortmund (GE), LISER (LU), Hexagon, (PL), University of Madrid (ES), University of Copenhagen (DK), and POLIS (European Network)
Scaling up inclusive citizen engagement for a fair energy transition towards decarbonisation of the energy system (ENGAGE)	Eindhoven Technical University (NL)	Horizon 2020	Durham University (UK), UiO (NO), Stichting platform (NL) European Univ. Institute (IT), Sapienza University of Rome (IT), DIW Berlin (DE), South-East Europe Change Net Foundation (BA), University of Edinburgh (UK)
League Against Energy Poverty (LEAP)	SEVEN, The Energy Efficiency Center Z.U. (CZ)	Horizon 2020	FNI (NO), Association of Czech and Moravian Housing Cooperatives (CZ), Slovak Institute of Education (SK), ZSPS (SK), Slovak Innovation and Energy Agency (SK), Viaeuropa competence centre SRO (SK), Euromasc AS (NO), Center of Education in Kongsvinger (NO), ÉMI Non-Profit Llc. (HU), Várpalota Municipality (HU), National Social Housing Association Foundation (AM), Czech Technical University in Prague (CZ)

2. In addition, Include researchers at TØI and SUM and involving two other departments at UiO (Dept. of Informatics, Dept. of Technical Systems) applied successfully for seed money at UiO:Energy, Project: SIEM – Socially Inclusive E-Mobility.

Application title	Applicant/project leader	Funding agency/programme	National and international research collaboration
Inclusive Transition towards Electric Mobility (ITEM)	TØI (NO)	JPI Urban Europe	Utrecht University (NL), Oxford University (UK), Adam Mickiewicz University (PL), Hexagon (PL)
Local Governance for Green Transitions in the Nordic (Nordic GTs)	Aalborg University (DK)	Danmarks Frie forskningsfond	CICERO (NO), Åbo Akademi (FI), Göteborg University (SE)
Oil and gas transition – Building evidence for policy action in the United Kingdom, Norway and Denmark	Climate Strategies (EU) and Stockholm Env. Inst. (SE)	Danish KR Foundation	University of Edinburgh (UK), Aalborg University (DK), University of Oslo (NO)
Smart sol i Norden	Solenergi-klyngen	Interreg Sweden-Norway (EU)	Tretorget (NO), NTNU Gjøvik (NO), INN University (NO), UiO, Multiconsult (NO), Akershus Energy (NO), the Regional Council for Sør-Østerdal (NO), Dalarna University (SE), Glava Energy Center (SE), Karlstad University (SE)
Mobility, Health and Inclusive Urban Epidemic Resilience (MOBI-HEALTH)	TØI (NO)	RCN	UiO (NO), NMBU (NO), Karlstad University (SE), LISER (LU)
Conditions for Democratic Resilience and Climate Action (CoDemoRe)	SAI/UiO (NO)	RCN	UiO (NO), CICERO (NO), Univ. of Wrocław (PL)
Land-use change and changing wind power governance: Process, practices and pressure (WINDGOV)	FNI (NO)	RCN	Univ. of Uppsala (SE), NMBU (NO)
The windy path towards low-emission societies: Exploring the effects of wind farms on rural societies in Nordic countries (NORWIND)	SUM/UiO (NO)	RCN	Univ. of Iceland (IS), Univ. of Copenhagen (DK)
Urban dreams: How neighbourhoods change, and how they shape their inhabitants?	SN (NO)	NFR	TØI (NO), OsloMet (NO), UiO (NO)
Municipalities in the European Multilevel Union Administration: Towards multi-hatted local governments?	OsloMet/NIBR (NO)	RCN	Lund University (SE)

Application title	Applicant/ project leader	Funding agency/ programme	National and international research collaboration
Innovative planning processes to identify sustainable land use and management solutions that respect climate and nature (CLIMBIN)	NIBIO (NO)	RCN	SUM/UiO (NO), CICERO (NO), insam (NO), Flanders Research Institute for Agriculture, Fisheries and Food /ILVO (BE), Swiss Federal Research Institute/WSL (CH), University of Santiago de Compostela/USC (ES)
Socially Inclusive E-mobility (SIEM)	UiO (NO)	UiO:Energy	Collaboration between Department of Informatics UiO, Include and TØI
Everyday COVID-19	Wageningen Univ. (NL)	RCN	University of Geneva (CH), University of Lancaster (UK), University of Manchester (UK), Saint Mary's College (US), TU Berlin (DE), LMU Munich (DE), University of Oslo (NO), Beijing Institute of Technology (CN), Renmin University of China (CN), Sciences Po Paris (FR), Università degli Studi di Milano-Bicocca (IT), NUI Galway (IE)
Starting conditions, potentials, barriers and drivers of RES-based community energy (COME RES)	Freie Universität Berlin (DE)	Horizon 2020	ACER (ES), Becker, Büttner & Held (DE), CICERO (NO), Ecoazioni (IT), ECORYS españa (ES), TU Eindhoven (NL), ENEA (IT), VITO (BE), ICLEI European Secretariat (DE), Institute of Physical Energetics (LV), INEGI (PT), LEIF (LV), NVE (NO), KAPE (PL), REScoop.eu (BE)
A methodology for integrating community acceptance of wind energy into energy system modelling (WINDACCEPT)	UiO (NO)	Horizon 2020	University of Natural Resources and Life Sciences Vienna (AT)





07

Include communication
2020

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Include communication 2020

The aim of Include is to produce knowledge on how to achieve a just transition to a low-emission society. For that knowledge to be used, we have to succeed in our research communication within the project, to our many partners and to a wider audience.

In the communication strategy Include developed and adopted in the autumn of 2020, we identify the three important target groups for Include:

1. The scientific community
2. Stakeholders, including the following: 1) partners and 2) decision makers and organisations beyond Include's partners
3. The wider audience (the public)

Much of Include's focus during 2019 and 2020 was on setting up our channels for internal communication and conducting internal meetings to establish Include's project portfolio. We have established Teams channels for internal communication and document archives, a newsletter and a project overview in AirTable. We have also established necessary communication tools, such as logos, graphics, websites, Teams groups, newsletters and social media channels. In addition, throughout 2020, we organised several meetings with the project team in different constellations. Continuous communication and sharing of information between the researchers and user partners is an important cornerstone of Include's work, and we have aimed to set up channels for internal communication that enable this.

For us, like many others, the coronavirus epidemic has affected the possibility of arranging physical events, and unfortunately, the Include kick-off event planned on 30 to 31 March was cancelled due to government restrictions. However, in addition to the communication activities highlighted throughout this annual report, and the 19 academic

publications, 46 media contributions, 119 presentations and 5 inputs to policy and planning processes contributed by the Include team in 2019 and 2020. Include co-hosted 5 seminars and workshops for external audiences in 2020 on digital platforms.

As a newly established centre, we have also sought collaboration with our research partners, in particular, for help disseminating information to external parties. In addition to developing our channels, we will continue to collaborate with partner institutions on content sharing in the future.

Highlight 8

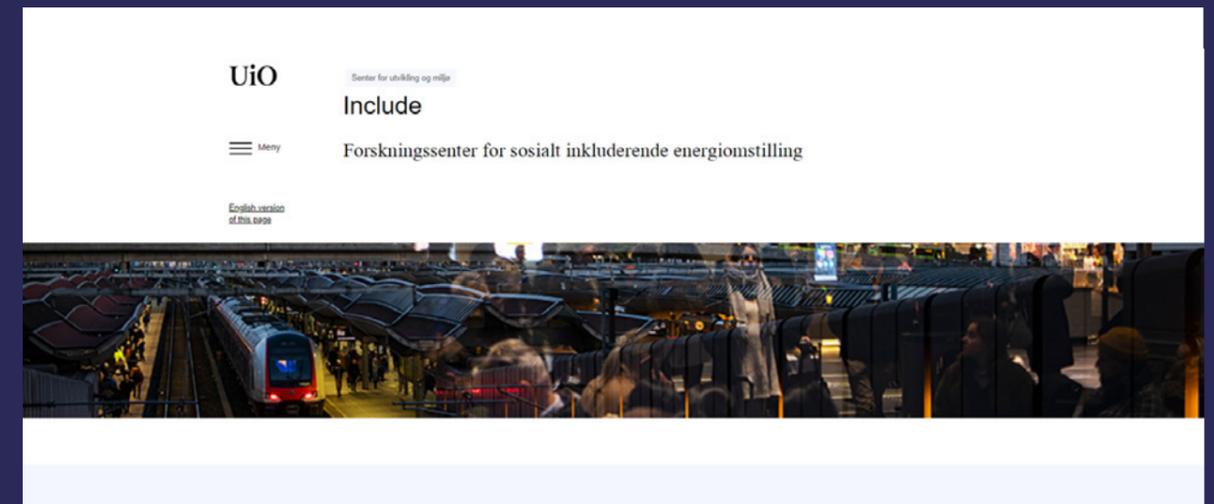
Partner-led podcast

The Environment Agency launched the podcast *Climate Podcast 24: Healthy economy, just climate initiatives*, inspired by their participation in Include.

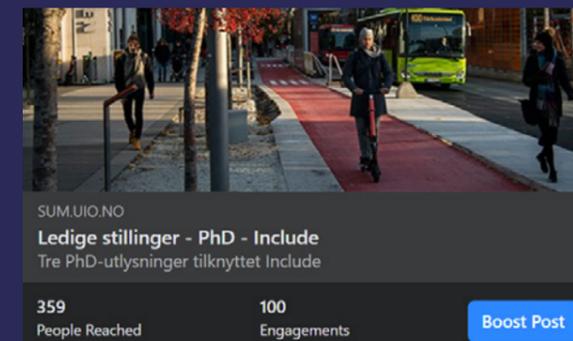


Matt Botsford on Unsplash

Established new communication channels

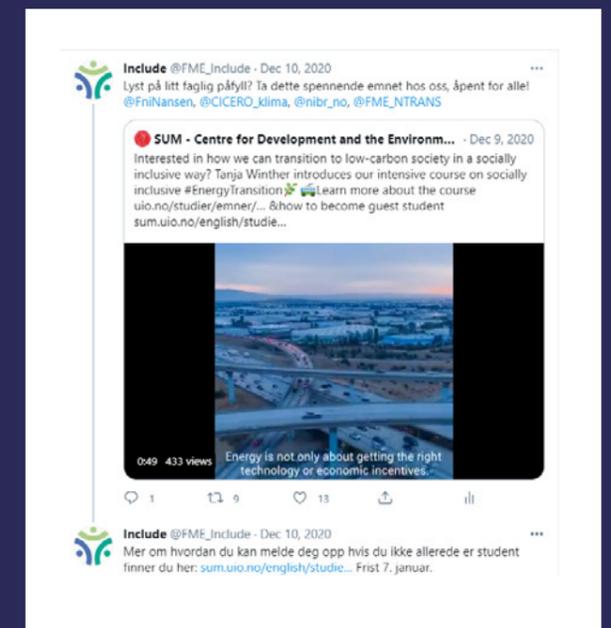


The Include webpage was launched in 2019 and had had more than 25 500 page views by 31 December 2020.



Facebook: 346 followers (with posts reaching between 85 and 2600 people during 2020)

The newsletter was created in June 2020 and sent out twice to approx. 400 recipients during 2020.



Twitter: 135 followers (tweets reaching over 15 900 impressions during 2020)



Photo from Include's warm-up workshop, 28.11.2019

Events

Internal events

Because of the COVID-19 pandemic, most of the meetings in 2020 were held digitally, and the Include team put significant preparation and effort into ensuring that these digital meetings ran smoothly, receiving highly positive feedback from participants on our ability to carry out well-organised online meetings. Through this, our secretariat team has gained skills in organising digital meetings, which will be useful in the future as well. Include's researchers and user partners are spread throughout Norway and internationally, and we have found that digital meetings can be a useful tool for ensuring that a larger number of people have a chance to participate and receive updates on Include's work, while avoiding non-essential air travel.

We invited young music scholars to perform and a professional person to make live drawings of what was said during events to allow participants to make use of more senses than cognitive ones. This was also a way to support a few individuals in a challenging time.



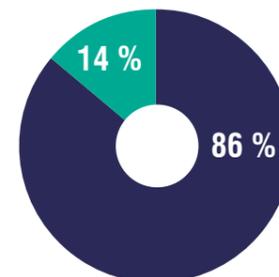
One of the best digital meetings I have participated in :) Well done!

An unusually good Zoom-seminar! Interesting presentations, pleasant atmosphere and great entertainment!

Impressively well-executed technically! Well-prepared with groups and the form. Efficient.

Anonymous feedback on the Include Communication Workshop, 08.10.2020

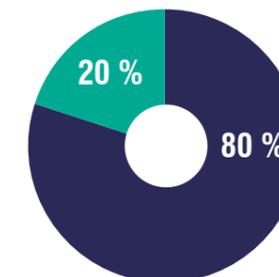
Annual meeting 2020



All in all, how would you rate the meeting?

- Very good
- Good
- Neutral
- Bad
- Very bad

Communication workshop 2020



To what extent do you think the seminar was useful in terms of Include's work with communication?

- To a high extent
- To some extent
- Neutral
- To a low extent

Table III. Overview of internal events 2019 and 2020, excluding WP and project meetings.

In addition to bilateral meetings with partners, project meetings, management group meetings and meetings of the researchers and partners attached to each WP, Include held the meetings listed below for all researchers and/or partners in 2019 and 2020.

Internal event	Date	Participants
Warming up	28 November 2019	Researchers and partners
Annual meeting	30 March 2020	Partners and research Institutes/ universities
Constituent board meeting	30 March 2020	Board
Researcher meeting	4 May 2020	Researchers
Partner meeting on projects and case studies	19 May 2020	Researchers and partners
Board meeting	9 June 2020	Board
Communication workshop	8 October 2020	Researchers and partners
Board meeting	8 October 2020	Board
Christmas gathering	17 December 2020	Researchers

External events

In addition to the communication activities highlighted throughout this annual report, and the 19 academic publications, 46 media contributions, 119 presentations and 5 inputs to policy and planning processes contributed by the Include team in 2019 and 2020, Include co-hosted 5 seminars and workshops for external audiences in 2020.

The Include kick-off event planned on 30 to 31 March was cancelled because of restrictions on gatherings during the COVID-19 pandemic. The plan was for the first day of this event to be an externally oriented kick-off session with presentations on Include's research focus. The second day was planned to be an internal workshop for the researchers and user partners to get to know each other and begin planning the Centre's activities, as well as electing Include's Board in a General Assembly. The General Assembly was held as a digital meeting, and the in-person kick-off seminar was initially delayed to October, then cancelled and replaced with a digital seminar for developing Include's communication strategy when it became clear that COVID restrictions would continue at this time.

Public Spaces in the Inclusive City

How can we combine a sustainable environmental development of cities with a socially just and inclusive development?

Time and place: Sep. 11, 2020 3:00 PM–3:50 PM, Kulturhuset hovedrom 6 Youngs gate, Oslo



Cancelled: Kick-off for Include

Include will be launched in Oslo on the 31st March 2020!

Time and place: Mar. 31, 2020 9:00 AM–12:30 PM, Holmenkollen Park Hotell



How can we achieve transitions in the power system and other energy systems that are socially just and inclusive? One of the questions to be discussed. Photo: Benjamin Ward

Highlight 9

Partner-led event

Julie Sjøwall Oftedal of A-lab architects was the initiator of and moderator for the session 'Public space in the inclusive city' during the Oslo Urban Arena conference 'Co-creating the City' on the 11th of September, where several Include partners and researchers contributed.

Highlight 11

Include in the media

Include researchers wrote an opinion piece in the *Technical Weekly Magazine* titled 'Who can even out their energy use?' National energy authorities are planning changes in electricity tariffs. Include researchers argued that it is important to understand the consequences for households before implementing new tariffs to avoid contributing to increased social inequality.



Highlight 10

Include in the media

Per Gunnar Røe was interviewed by NRK's Daily Review on how city planning can be affected by COVID-19, and why it is important to understand sociocultural factors when planning urban development.



Highlight 12

Include in the media

Lars H. Gulbrandsen, FNI, participated in the TV programme *The Debate* on NRK. Research on wind power at FNI provided a foundation for the political processes that followed, culminating in a recommendation that new applications for concessions should be processed using the Planning and Building Act. This will give more power to local authorities in questions of wind power development.



Table IV. Overview of External events organised by Include 2019 and 2020

External event	Date	Participants
UiO Energy Forum (co-organised by Include and UiO:Energy)	27–28 November 2019	Researchers and stakeholders, open to the public
Polytechnic Society seminar on the role of municipalities in the green shift (co-organised by Include and Polytechnic Society)	29 December 2019	Researchers, stakeholders and the public
Breakfast seminar on inclusive energy transitions (jointly organised by Include and CIENS)	29 January 2020	Researchers and stakeholders, open to the public
Breakfast seminar: The knowledge politics of urban sustainable energy experiments (jointly organised by Include and the Cities and Societies seminar series)	5 March 2020	Researchers and stakeholders, open to the public
Kick-off Include. Cancelled	30–31 March	Researchers, stakeholders and the public
Seminar during Oslo Urban Arena: Public spaces in the inclusive city: How can we combine a sustainable environmental development of cities with a socially just and inclusive development? (joint Include and A-lab seminar)	11 September 2020	Researchers and stakeholders, open to the public



Appendices

APPENDIX A

Projects defined in 2020

Projects defined and described during 2020 (started in either 2020 or in 2021). Master's projects are excluded. Hence, not all projects defined in our project catalogue are included in the tables below.



Energy systems in transition (WP1)

Project	Overall objective	Project leader and partners
<i>Gendered energy transition</i>	To contribute knowledge on gendered aspects of the low-carbon energy transition	Karina Standal, CICERO, University of Twente
<i>Flexible electricity use: Enabling and constraining factors</i>	To understand how different household groups use and interpret available information about time-of-use pricing and consumption levels and their attitudes towards capacity pricing	Hanne Sæle, SINTEF Energy Research, CICERO, Viken, NVE, Istad Nett, Forbrukerrådet, Energi Norge
<i>Flexible electricity use: Lessons from pilot projects</i>	To explore how different instruments aimed at improving electricity demand flexibility affect different household groups' scheduling of electricity use, energy practices, and motivations for energy saving	Karina Standal, CICERO, SUM (UiO), Otago University, Viken, NVE, Istad Nett, Forbrukerrådet, Energi Norge
<i>The municipality as energy pioneer</i>	To explain why a municipality has become an energy pioneer, identify barriers in this process and clarify how the barriers have been managed	Tor Håkon Jackson Inderberg, FNI, CICERO, SUM (UiO), Kongsberg Kommunale Eiendom
<i>Flexible energy use in Norway and Sweden: A comparison</i>	To explore how national regulations for electricity demand flexibility (EDF) have developed in Norway and Sweden and explain the political feasibility of adopting different instruments for EDF	Tor Håkon Jackson Inderberg, FNI, Lund University, NVE, Viken, Istad Nett, Forbrukerrådet



Energy systems in transition (WP1)

Project	Overall objective	Project leader and partners
<i>Clean energy package (CEP)</i>	To map Norwegian policymakers' and stakeholders' perspectives on the CEP and its implementation and identify the impact of CEP on Norway's renewable energy and community energy sector	Kacper Szulecki, ISV (UiO), FNI Solenergiklyngen
<i>Bio-energy potential</i>	To identify prospects for firewood and advanced biofuel production and use, merits in social systems and efficient policies and measures to realise these opportunities	Asbjørn Torvanger, CICERO, FNI, Viken, Tretorget
<i>Winds of change</i>	To explain why municipal councils who earlier had voted for wind power development have changed position	Per Ove Eikeland, FNI, Viken, KS,
<i>Collective and tenant prosumers</i>	To investigate the regulatory challenges associated with involving 'collective residents' in the prosumer segment	Marie Byskov Lindberg, FNI, Solenergiklyngen, Energi Norge
<i>Designing socially inclusive low-carbon energy systems: Social acceptance and energy justice aspects in energy systems modelling</i>	To explore and improve the representation of social factors in energy systems modelling as an attempt to move the scientific field of energy systems modelling beyond the dominating techno-economic view	Oskar Vågerö, Department of Technology Systems (UiO), FNI, NVE
<i>Understanding consumers' capacity to transition to sustainable energy practices: A level playing field or a pipe dream?</i>	To research the capacity of practitioners to transition to energy-relevant practices, but also accentuate the need to include dimensions of inequality more purposefully when studying energy practices	Eivind Hjort Matthisen, FNI



Energy spaces and flows (WP2)

Project	Overall objective	Project leader and partners
<i>Urban sprawl</i>	To enhance public authorities' abilities to steer land use development in climate friendly directions at the same time of being socially just	Aud Tennøy, TØI, Lillestrøm, A-lab, Helsedirektoratet, Ullensaker, Viken
<i>Everyday COVID-19</i>	To produce new insights into how ruptures in socio-material systems can work to fundamentally alter or reinforce routing consumption practices – and for whom	Arve Hansen, SUM, Wageningen University, Helsedirektoratet
<i>Epidemic vulnerability and urban land use</i>	To assess the short-, mid- and long-term implications for urban land use and transport in the face of the 2020 COVID-19 pandemic	Lars Böcker, TØI, ISS (UiO), Durham University, A-lab, Aspelin Ramm, Viken
<i>Mass landfills: A pilot study</i>	Map the movement of masses from construction sites to mass landfills and raise questions concerning social inclusiveness both at the urban sites of construction and at the rural mass landfills	Bjørnar Sæther, ISS (UiO), Hurdal, Trefokus
<i>Smart and energy positive satellite cities</i>	To investigate the conceptualisation and promotion of energy smart new towns	Per Gunnar Røe, ISS (UiO)
<i>Truly public spaces</i>	To study existing urban public and semi-public spaces focussing on how these spaces frame social practices, are socially inclusive and contribute to place identity; to explore the potential for developing socially inclusive public spaces	Per Gunnar Røe, ISS (UiO), Bærum, Lillestrøm, A-lab, Oslo, Viken, Trefokus
<i>Sustainable housing developments</i>	To establish criteria for development of implementation models for sustainable housing projects and attractive local communities	Rolf Jacobsen, Gaia arkitekter, Hurdal, A-lab, Viken, Trefokus
<i>Electric vehicles and solar prosumption</i>	To explore the spatial distribution of electric vehicle (EV) ownership and PV prosumption, their interconnections and their correlations with socio-economic status and other population statistics	Lars Böcker, TØI, FNI



Energy spaces and flows (WP2)

Project	Overall objective	Project leader and partners
<i>Towards a sustainable protein system?</i>	To map barriers and opportunities for upscaling sustainable protein consumption in Norwegian households	Johannes Volden, SUM (UiO)
<i>Inclusive and sustainable planning in Vestre Billingstad</i>	To explore ongoing planning practices as part of the development project 'Vestre Billingstad', focussing on sustainable and socially inclusive strategies and projects	Asker, ISS (UiO), IPed (UiO), SUM(UiO)



Municipalities as change agents (WP3)

Project	Overall objective	Project leader and partners
<i>Urban growth agreements (UGAs)</i>	To investigate to what extent and how issues of social inequalities were part of the UGA renegotiation process and to what extent and how the renegotiated UGAs reflect social inequality dimensions	Anders Tønnesen, CICERO, OsloMet, SUM (UiO), Viken
<i>Re-making consumption</i>	To explore how municipality-led sustainability initiatives are understood and used by inhabitants seeking to understand potential social, economic or institutional barriers to the upscaling of collaborative consumption	Ulrikke Wethal, SUM (UiO), Oslo, Asker
<i>Greening industrial relations in Norwegian municipalities</i>	To explore the potential for 'greening' industrial relations in the municipal sector	David Jørdhus-Lier, ISS (UiO), KS, Utdanningsforbundet
<i>Climate budgeting</i>	To investigate the role of climate budgeting with respect to sustainability transformation in municipalities	Mette Talseth, Solnørdal UiT, SUM (UiO), Civitas, Oslo, Tromsø, Miljødirektoratet, Troms og Finnmark, KS, Solenergiklyngen, A-lab, Viken, Lillestrøm, Bærum
<i>Local circuits</i>	To explore the potential for local circuits with respect to sustainability transformations in local communities	Hege Westskog, SUM (UiO), CICERO, UiT, insam, KS, Tromsø, Hurdal, Oslo, Arendal, Lillestrøm, Spire, A-lab



Municipalities as change agents (WP3)

Project	Overall objective	Project leader and partners
<i>Peripheral public participation</i>	To contribute new knowledge about the urban-rural tensions within municipalities in initialisation and implementation of decarbonisation measures in municipalities	Sigrid Stokstad, OsloMet, SUM (UiO), Ullensaker, Hurdal, Lillestrøm, Asker, A-lab
<i>Smaller municipalities</i>	To understand what characterises national-authority ambitions for climate-friendly land use in smaller municipalities and how these municipalities experience these ambitions; to explore how smaller municipalities work to address climate-friendly land use and how this may affect social justice	Anders Tønnesen, CICERO, SUM (UiO), Troms og Finnmark Fylkeskommune, Viken
<i>Education</i>	To provide an overview of the urgency of the climate change challenge, the issues at stake and some key barriers that need to be overcome in theory, policy and practice to progress a transformative learning agenda that supports inclusive, democratic and effective societal transformations in the face of climate change	Jennifer Joy West, CICERO
<i>Circular economy</i>	To understand the role of municipalities in contributing to inclusive solutions for the circular economy (preliminary)	Ingrid Christiansen, CICERO
<i>Multi-level governance</i>	To explore the multi-level governance processes of transport policy (preliminary)	PhD, TØI
<i>Network for local circuits</i>	To contribute to a transformative climate agenda in Norwegian municipalities	Kjetil Bjørklund, KS, insam, Civitas, CICERO, SUM (UiO)
<i>Developing competence for transformative action</i>	To develop a model for competence building on sustainability transformations within municipalities	Asker, Insam, SUM (UiO), IPed (UiO), USN, Miljødirektoratet (Klimasats)



Interventions (WP4) and Learning across borders (WP5)

Project	Overall objective	Project leader and partners
<i>Hovinbyen: Pre-study (WP4)</i>	To explore and map the conditions for developing Hovinbyen as a socially sustainable urban district	Ole Smørdal, IPed (UiO), ISS (UiO), Aspelin Ramm, Spire, A-lab, Solenergiklyngen, Viken, Trefokus, Pådriv, OBOS Bostart
<i>Youth climate leadership pilots (WP4)</i>	To address sustainable development of places in Asker through youth climate leadership	Asker, IPed (UiO)
<i>Durham climate action plan (WP5)</i>	To explore how DCC's Climate Action Plan does/should address social inclusion	Chima Michael, Anyadike-Danes Durham University, Durham County Council
<i>Coronavirus strategies (WP5)</i>	To understand how local government organisations are combining climate action and COVID-recovery plans and if/how social inclusion issues are included in their response	Claire Dungey, Durham University, Durham Council

APPENDIX B

Personnel

Key Researchers

Name	Position	Institution	Gender	Research area
Hege Westskog	Researcher, FME Coordinator	SUM, UiO	F	WP3
Tanja Winther	Professor, Head of Include	SUM, UiO	F	WP1
Arve Hansen	Researcher	SUM, UiO	M	WP2
Kacper Szulecki	Researcher	ISV, UiO	M	WP1
Per Gunnar Røe	Professor	ISS, UiO	M	WP2
Bjørnar Sæther	Professor	ISS, UiO	M	WP2, WP3
David Jordhus-Lier	Professor	ISS, UiO	M	WP2, WP3
Ole Smørdal	Researcher	IPED, UiO	M	WP4
Marianne Zeyringer	Associate Professor	ITS, UiO	F	WP1
Lene Foss	Professor	UiT	F	WP3
Mette Solnørdal	Researcher	UiT	F	WP3
Elin Anita Nilsen	Associate Professor	UiT	F	WP3
Tor Håkon Jackson Inderberg	Senior Research Fellow	FNI	M	WP1
Jørgen Wettestad	Research Professor	FNI	M	WP1
Lars H. Gulbrandsen	Deputy Director, Research Director	FNI	M	WP1
Ole Kristian Fauchald	Research Professor	FNI	M	WP1
Jon Birger Skjærseth	Research Professor	FNI	M	WP1
Marie Byskov Lindberg	Senior Research Fellow	FNI	F	WP1
Per Ove Eikeland	Senior Research Fellow	FNI	M	WP1
Karoline Hægstad Flåm	Researcher	FNI	F	WP1
Mari Lie Larsen	Research Fellow	FNI	F	WP1
Torbjørn Jevnaker	Research Fellow	FNI	F	WP1

Key Researchers

Name	Position	Institution	Gender	Research area
Helene Amundsen	Senior Researcher	CICERO	F	WP3
Jennifer Joy West	Senior Researcher	CICERO	F	WP3
Marianne Aasen	Senior Researcher	CICERO	F	WP1
Anders Tønnessen	Senior Researcher	CICERO	M	WP3
Karina Standal	Senior Researcher	CICERO	F	WP1
Asbjørn Torvanger	Senior Researcher	CICERO	M	WP1
Aud Tennøy	Chief Researcher	TØI	F	WP2
Petter Christiansen	Senior Research Officer	TØI	M	WP3
Fitwi Wolday	Research Planner	TØI	M	WP2, WP3
Lars Böcker	Senior Research Geographer	TØI	M	WP2
Sigrid Stokstad	Researcher	NIBR, OsloMet	F	WP3
Lars Wang	Advisor, CEO	insam	M	WP3
Bård Sodal Grasbekk	Advisor	insam	M	WP3
Reidunn Mygland	Advisor	insam	F	WP3
Rolf Jacobsen	Consultant	Gaia Arkitekter	M	WP2
Eivind Selvig	Consultant	Civitas	M	WP2
Simone Abram	Professor	Durham University	F	WP5
Andres Luque Ayala	Associate Professor	Durham University	M	WP5
Gavin Bridge	Professor	Durham University	M	WP5
Chima Michael Anyad-ike-Danes	Researcher	Durham University	M	WP5
Claire Dungey	Researcher	Durham University	F	WP5
Kirsten Jenkins	Lecturer	Edinburgh University	F	WP5

Postdoctoral researchers with financial support from the Centre budget

Name	Nationality	Period	Gender	Topic
Ulrikke Bryn Wethal	Norwegian	2019-24	F	WP2, WP3

PhD students with financial support from the Centre budget

Name	Nationality	Period	Gender	Topic
Oskar Vågerö	Swedish	2020-24	M	WP1

Communication and research support staff

Name	Affiliation	Gender	Topic
Hilde Holsten	SUM, UiO	F	WP6
Kjersti Litleskare	SUM, UiO	F	WP6
Iris Leikanger	SUM, UiO	F	WP7, WP3
Øyvind Sundet	SUM, UiO	M	WP7, WP2
Johannes Volden	SUM, UiO	M	WP2
Sindre Hoff	SUM, UiO	M	WP2
Marit Hovland	IPED, UiO	F	WP4
Margret Sævarsdottir	IPED, UiO	F	WP4
Neha Singh	IPED, UiO	F	WP4
Richard Nesaas	IPED, UiO	M	WP4
Milla Bjerkestrand	ISS, UiO	F	WP2
Ingrid Andrea Holland	ISS, UiO	F	WP3
Astrid Arnslett	CICERO	F	WP6
Erik Tollefsen	CICERO	M	WP6
Bente Bakken	UiO: Energi	F	WP6
Anna Valberg	FNI	F	WP6
Erik Berge	ISS, UiO	M	WP6
Jan-Tore Berghei	OsloMet	M	WP6
Hanne-Sparre Enger	TØI	F	WP6

Administrative and finance staff

Name	Affiliation	Gender	Topic
Marius Bergh	SUM, UiO	M	WP7
Terje Røysum	SUM, UiO	M	WP7
Kristoffer Ring	SUM, UiO	M	WP7
Knut Kjæreng	SUM, UiO	M	WP7
Lars Fredrik Janby	ISS, UiO	M	WP7
Galina Loginova	ISS, UiO	F	WP7
Trine Labahå	IPED, UiO	F	WP7
Kari-Anne Ulfsnes	IPED, UiO	F	WP7
Ilze Gehe	ISV, UiO	F	WP7
Mia Marie Kinden Jensen	UiO	F	WP7
Kathrine Olsgard	UiO	F	WP7
Katinka Grønli	UiO	F	WP7
Elise Prytz Hafskjold	CICERO	F	WP7
Suzanne Tærud Day	CICERO	F	WP7
Sigrid Rian Song	CICERO	F	WP7
Claes Lykke Ragner	FNI	M	WP7
Mariann Opaker	OsloMet	F	WP7
Gøril Heimland	UiT	F	WP7
Christian Hansen	UiT	M	WP7
Lisbeth Kjelstrup	TØI	F	WP7
Espen Refstie	TØI	M	WP7

Include board members and substitute board members

Name	Affiliation	Gender	Role
Vebjørn Bakken	UiO	M	Board member
Marianne E. Lien	UiO	F	Substitute
Kristin Halvorsen	CICERO	F	Board member
Frode Longva	CICERO	M	Substitute
Iver Neumann	FNI	M	Board member
Lars Gulbrandsen	FNI	M	Substitute
Matteo Chiesa	UiT	M	Board member
Edel O. Elvevoll	UiT	F	Substitute
Bjørn Erik Nordby	Asker kommune	M	Board member
Erling Guderud	Asker kommune	M	Substitute
Henriette Rognlien	Hurdal kommune	F	Board member
Julie Sjøwall Oftedal	A-lab	F	Board member
Magnus Berg Jørgensen	A-lab	M	Substitute
Christoffer Klyve	FIVH	M	Board member
Elisabeth Riise Jensen	FIVH	F	Substitute
Inger Lise Blyverket	Forbrukerrådet	F	Board member
Andreas Strandskog	Forbrukerrådet	M	Substitute

Include international advisory board members

Name	Affiliation	Gender
Alan Warde	Manchester University, UK	M
Janet Stephenson	University of Otago, NZ	F
Roger Keil	York University, CA	M
Desmond McNeill	University of Oslo, NO	M
Mariëtte de Haan	Utrecht University, NL	F
Michèle Knodt	TU Darmstadt, DE	F
Lars Coenen	HvL, NO	M
Simin Davoudi	Newcastle University, UK	F
Katarina Eckerberg	Umeå University, SE	F

Summer projects

Name	Affiliation	Gender	Topic
Tora Voll Domby (2020)	TØI / ISS, UiO	F	WP2, WP3
Brage Vagli Østbye (2020)	TØI / ISS, UiO	M	WP2, WP3
Sigurd Arntzen (2020)	ITS, UiO	M	WP1
Elodie Belleflamme (2019)	SUM, UiO	F	WP1
Johannes Volden (2019)	SUM, UiO	M	WP2

Master degrees (completed)

Name	Gender	Topic
Clara Reich	F	WP2
Fride Sofie Spielkavik Larsen	F	WP2
Malin Whittaker	F	WP3
Margret Sævarsdottir	F	WP4
Marit Hovland	F	WP4
Nora May Engeseth	F	WP2
Nora Rognstad	F	WP1
Torjus Lunder Bredvold	M	WP1

Representatives from user partner institutions

Name	Affiliation	Gender	Main research area
Julie Sjøwall Oftedal	A-lab	F	WP2
Magnus Berg Jørgensen	A-lab	M	WP2
Pål Erik Olsen	A-lab	M	WP2
Anniken Reinertsen	A-lab	F	WP2
Olle Jönsson	A-lab	M	WP2
Geir Haaversen	A-lab	M	WP2
Bjørn Nordby	Asker kommune	M	WP3

Representatives from user partner institutions

Name	Affiliation	Gender	Main research area
Anja Østerli	Asker kommune	F	WP3
Elisabeth Kolrud	Asker kommune	F	WP2
Gyrid Mangersnes	Asker kommune	F	WP2
Mari U. Andresen	Asker kommune	F	WP4
Elin Schönberg Røe	Asker kommune	F	WP4
Kenneth Dahlgren	Aspelin Ramm	M	WP2
Anne Bertine Fagerheim	Bærum kommune	F	WP2, WP3
Unni Larsen	Bærum kommune	F	WP2, WP3
Christoffer Klyve	FIVH	M	WP2, WP4
Astrid Bjerke	FIVH	F	WP2, WP4
Elisabeth Riise Jenssen	FIVH	F	WP2, WP4
Hanne Gustavsen	FIVH	F	WP2, WP4
Siv Elin Ånestad	FIVH	F	WP2, WP4
Andreas Strandskog	Forbrukerrådet	M	WP1, WP2
Janne Strandrud	Helsedirektoratet	F	WP3
Kadri Tammur	Helsedirektoratet	F	WP3
Heidi Fadum	Helsedirektoratet	F	WP3
Henriette Rognlien	Hurdal kommune	F	WP3
Gerhard Eidså	Istad Nett AS	M	WP1
Hallvard Benum	KKE	M	WP3, WP1
Kjetil Bjørklund	KS	M	WP3
Jørn Inge Dørum	KS	M	WP3
Berit Hessel	Lillestrøm kommune	F	WP2, WP3
Ellen Anita Holterhaugen	Lillestrøm kommune	F	WP2, WP3
Hanne Sophie Solhaug	Lillestrøm kommune	F	WP2, WP3
Marianne Larsen	Lillestrøm kommune	F	WP2, WP3

Representatives from user partner institutions

Name	Affiliation	Gender	Main research area
Øyvind Daaland Lesjø	Lillestrøm kommune	M	WP2, WP3
Øyvind Wahl	Lillestrøm kommune	M	WP2, WP3
Lise Svenning Jensen	Miljødirektoratet	F	WP2, WP3
Marit Hepsø	Miljødirektoratet	F	WP2, WP3
Kirvil Stoltenberg	Miljødirektoratet	F	WP2, WP3
Sandrine Benard	Miljødirektoratet	F	WP2, WP3
Fay Madeleine Farstad	Miljødirektoratet	F	WP2, WP3
Andrea Byfuglien	Miljødirektoratet	F	WP2, WP3
Benedicte Langseth	NVE	F	WP1
Cecilie Karina von Hirsch	Oslo kommune	F	WP2, WP3
Astrid-Johanne Svensson	Oslo kommune	F	WP2, WP3
Cecilie Bergmann	Oslo kommune	F	WP2, WP3
Signe Nyhuus	Oslo kommune	F	WP2, WP3
Line Tveiten	Oslo kommune	F	WP2, WP3
Veronica Sund	Oslo kommune	F	WP2, WP3
Reidun Malvik	Oslo kommune	F	WP2, WP3
Trine Kopstad Berentsen	Solenergiklyngen	F	WP1
Benjamin Rød	Solenergiklyngen	M	WP1
Ola Rostad	Solenergiklyngen	M	WP1
Julie Rødje	Spire	F	WP4
Nora May Engeseth	Spire	F	WP3
Hilde Rognlien	Spire	F	WP2
Aasmund Bunkholt	TreFokus	M	WP2
Øystein Olav Miland	Troms og Finnmark fylkeskommune	M	WP2, WP3
Anja Johnsen	Tromsø kommune	F	WP2, WP3

Representatives from user partner institutions

Name	Affiliation	Gender	Main research area
Ernst Kloosterman	Tromsø kommune	M	WP3
Grethe Frank Strand	Ullensaker kommune	F	WP3
Maria Rasmussen	Ullensaker kommune	F	WP2
Solveig Børve Hovdal	Ullensaker kommune	F	WP3
Anne Cathrine Ekroll	Ullensaker kommune	F	WP3
Åge Vebostad	Ullensaker kommune	M	WP3
Jeta Limani Andreassen	Ullensaker kommune	F	WP3
Hans Petter Langbakk	Ullensaker kommune	M	WP3
Inger Christina Kinch	Viken fylkeskommune	F	WP3
Guri Bugge	Viken fylkeskommune	F	WP1, WP3
Benedikte Kise	Viken fylkeskommune	F	WP3
Inger Johanne Strand	Viken fylkeskommune	F	WP3
Cathrine Bergjordet	Viken fylkeskommune	F	WP2
Gerd Jacobsen	Viken fylkeskommune	F	WP1, WP3
Bård Strige Øyen	Viken fylkeskommune	M	WP2, WP3
Pia Audhild Eide Husstad	Viken fylkeskommune	F	WP2, WP3
Hilde Rønning	Viken fylkeskommune	F	WP2, WP3
Erlend Hanssen	Viken fylkeskommune	M	WP2, WP3
Tyra Risnes	Viken fylkeskommune	F	WP1, WP3

APPENDIX C

Financial overview

BUDGET PER PARTNER

Include budget per partner (8 years)

Research institutions	RCN	Inkind	Financial	Total
University of Oslo	45 931	27 143	16 320	89 394
UiT - The Arctic University of Norway	7 226	1 631		8 857
FNI - Fridtjof Nansen Institute	11 703	2 100		13 803
CICERO - Centre for International Climate Research	12 179	2 600		14 779
TØI - The Institute of Transport Economics	9 042	1 050		10 092
OsloMet, NIBR	3 840	600		4 440
Durham University	5 080	0		5 080
Total	95 000	35 124	16 320	146 445
Partners		17 250	1 800	19 050
Include total	95 000	52 374	18 120	165 494

(Figures in 1000 NOK)

REPORTED COST

Reported cost 2019/2020

Research institutions	COSTS			FUNDING	
	Budget	Reported	Reported vs budget	Financial & inkind	RCN
University of Oslo	6 769	7 759	115 %	4 802	2 808
UiT - The Arctic University of Norway	660	628	95 %	29	599
FNI - Fridtjof Nansen Institute	1 370	870	64 %	300	570
CICERO - Centre for International Climate Research	2 098	1 657	79 %	259	1 398
TØI - The Institute of Transport Economics	950	1 252	132 %	0	1 252
OsloMet, NIBR	625	500	80 %	164	336
Durham University, UK	660	272	41 %	0	272
Total	13 132	12 938	99 %	5 553	7 234
Partners	2 400	1 903	79 %	2 053	0
Include total	15 532	14 841	96 %	7 606	7 234

(Figures in 1000 NOK)

APPENDIX D

Publications

Academic publications

2019

Eikeland, Per Ove, and Jon Birger Skjærseth. 2019. Oil and Power Industries' Responses to EU Emissions Trading: Laggards or Low-Carbon Leaders? *Environmental Politics* 28 (1): 104–24. <https://doi.org/10.1080/09644016.2019.1521961>.

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Uteng, Tanu Priya, Hans Martin Espegren, Torstein S. Throndsen, and Lars Böcker. 2019. The Gendered Dimension of Multimodality: Exploring the Bike-Sharing Scheme of Oslo. In *Gendering Smart Mobilities*, edited by Tanu Priya Uteng, Hilda Rømer Christensen, and Lena Levin. London: Routledge. <https://www.taylorfrancis.com/books/e/9780429466601/chapters/10.4324/9780429466601-10>.

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Böcker, Lars, and Ellinor Anderson. 2020. Interest-Adoption Discrepancies, Mechanisms of Mediation and Socio-Spatial Inclusiveness in Bike-Sharing: The Case of Nine Urban Regions in Norway. *Transportation Research Part A: Policy and Practice* 140 (October): 266–77. <https://doi.org/10.1016/j.tra.2020.08.020>.

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Westskog, Hege, Tor H. Aase, Karina Standal, and Solvi Tellefsen. 2020. Sharing among Neighbours in a Norwegian Suburb. *Environmental Innovation and Societal Transitions* 37 (December): 39–49. <https://doi.org/10.1016/j.eist.2020.07.010>.

Westskog, Hege, Helene Amundsen, Petter Christiansen, and Anders Tønnesen. 2020. Urban Contractual Agreements as an Adaptive Governance Strategy: Under What Conditions Do They Work in Multi-Level Cooperation? *Journal of Environmental Policy & Planning* 22 (4): 554–67. <https://doi.org/10.1080/1523908X.2020.1784115>.

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Aasen, Marianne, Tor Håkon Jackson Inderberg, Karina Standal, Hanne Sæle, Hege Westskog, and Tanja Winther. 2020. “Hvem kan jevne ut strømbroken sin?” Teknisk Ukeblad, May 13, 2020. <https://www.tu.no/artikler/hvem-kan-jevne-ut-strombruken-sin/491969>.

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2020d. “Uavhengig forskning om vindkraft.” Aftenposten, May 7, 2020, sec. Morgenutg. - Trykt utg. **2020e.** “4. juni – Stormfullt om vindkraft.” Debatten. NRK. <https://tv.nrk.no/serie/debatten/202006/NNFA51060420>.

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Skjærseth, Jon Birger. 2020a. EU og klima: Koronakrisen gir “ekstremt verdifull lærdom” til kampen mot klimakrisen. Energi og Klima. <https://energiogklima.no/nyhet/eu-og-klima-koronakrisen-gir-ekstremt-verdifull-laerdom-til-kampen-mot-klimakrisen/>.

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2020c. “Omstilling må være rettferdig.” Kommunal rapport, June 19, 2020. <https://www.kommunal-rapport.no/kronikk/omstilling-ma-vaere-rettferdig/120941/>.

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Presentations and contributions to policy and planning processes

2019

Abram, Simone. 2019. "Decolonising Energy Transitions." Presented at the UiO:Energy Forum 2019, Oslo, Norway, November 27.

Böcker, Lars. 2019a. "Byen, miljø og trivsel: Byen som metabolisme. Fortetting - bilfritt - trivelig?" Konferanse presented at the Bærekraftig byutvikling i miljøhovedstaden Oslo: Lykke og liv i byen - Klimakamp eller trivsel? Begge deler!, Oslo, Norway, October 10.

2019b. "The Dynamics of Urban Metabolism in the Face of Digitalisation and Changing Lifestyles." Conference presented at the UiO: Energy Forum 2019, Oslo, Norway, November 27.

Bridge, Gavin, and Tanja Winther. 2019. "Opening Remarks: The Role of Energy and Infrastructure in Reaching Social, Environmental and Economic Development." Presented at the What Works 2019: Bridging research and policy on sustainable development, Oslo, Norway, October 14.

Ericson, Torgeir. 2019. "Problemstillinger fra NVEs perspektiv." Presented at the Workshop Include, Oslo, Norway.

Folvik, Kjersti. 2019. "Kjeller Flyplass." Presented at the Workshop Include.

Gulbrandsen, Lars. 2020. "Synspunkter på stortingsmeldingen Vindkraft på land - Endringer i konsesjonsbehandlingen (Meld. St. 28 (2019-2020))." Presented at the Lyttmøte om vindkraft, Arbeiderpartiets energi- og miljøfraksjon, Stortinget, Oslo, Norway, September 23.

Hansen, Arve. 2019. "Berekraftig forbruk i byen: Byrom og kvardagskonsum." Presented at the Lykke og liv i byen - Klimakamp eller trivsel? Begge deler!, October 10.

Hansen, Arve, Kacper Szulecki, and Tanja Winther. 2019. "The Role of Energy and Infrastructure in Reaching Social, Environmental and Economic Development." Panel discussion presented at the What works? Bridging Research and Policy on Sustainable Development, Oslo, Norway, October 14.

Hepsø, Marit. 2019. "Miljødirektoratets forskningsbehov." Presented at the Workshop Include, Oslo, Norway.

Hovdal, Solveig Børve. 2019. "Inkluderende planprosesser." Presented at the Workshop Include, Oslo, Norway.

Inderberg, Tor Håkon Jackson. 2019a. "FLEXEEFFECT i FME INCLUDE - integrasjon og arbeidsdeling." Presented at the FLEXEEFFECT kick-off møte, Oslo, Norway, September 9.

2019b. "The Institute Sector's Research on Sustainability: Perspectives from The Fridtjof Nansen Institute." Presented at the Workshop NTNU Bærekraft, Oslo, Norway, November 21.

2019c. "The Need for Justice Perspectives in the Norwegian Energy Transition." Presented at the UiO:Energi Energiforum 2019, November 27.

Jenkins, Kirsten, and Tanja Winther. 2019. "Energy Justice - Promises and Limitations of a Novel Concept." Presented at the UiO:Energy Forum 2019, Oslo, Norway, November 27.

Johnsen, Anja. 2019. "Tromsø kommunes perspektiver for Include." Presented at the Workshop Include, Oslo, Norway.

Norby, Bjørn. 2019. "Klimasatsing i Asker." Presented at the Workshop Include, Oslo, Norway.

Røe, Per Gunnar. 2019. "Energy Spaces and Flows." Presented at the Workshop med brukerpartnere i Include-senteret, November 28.

Standal, Karina. 2019. "Andelslandbruk og bærekraftig deling." Presented at the Nettverkssamling Økologisk Norge, November 15.

Stokstad, Sigrid. 2019. "Hva er kommunenes formelle ansvar for det grønne skiftet?" Presented at the Møte i Polyteknisk forening, December 4.

Strandskog, Andreas. 2019. "Forbrukerrådets perspektiver på WP1." Presented at the Workshop Include, Oslo, Norway.

Szulecki, Kacper. 2019. "Participant in the Panel 'PROSUMERS: Challenges and Opportunities in the Energy Transition.'" Presented at the Sustainable Energy Week, June 18.

Tønnesen, Anders. 2019a. "By-områdene i NTP og rammeverk for byvekstavtaler." Presented at the NTP-konferansen, November 25.

2019b. "Creating Public Acceptance for Multilevel Cooperation in Green Transitions Oslo and Gothenburg." Presented at the UiO:Energy Forum, Oslo, Norway, November 27.

West, Jennifer Joy. 2019. "Addressing the Existential Threats of Climate Change." Presented at the 11th Annual Bergen Educational Conversation: Meeting the Challenges of Existential Risks through Educational Innovation, November 1.

Westskog, Hege. 2019a. "Multi-Level Governance of Wicked Problems - towards a Flexible and Co-Managing Practice." Presented at the UiO: Energy Forum 2019, Oslo, Norway, November 27.

Presentations and contributions to policy and planning processes

2019b. "Omstilling til lavutslippsamfunnet - hvilken rolle kan kommunene spille?" Presented at the Kommunenes rolle i det grønne skiftet, December 6.

Westskog, Hege, and Helene Amundsen. 2019. "Byvekstavtaler - muligheter og utfordringer." Presented at the KMD internseminar, December 5.

Winther, Tanja. 2019a. "Presentasjon av INCLUDE." Presented at the FME-kontaktmøte høsten 2019, September 20.

2019b. "Establishing 'INCLUDE' as a Transdisciplinary Research Centre on Environmentally Friendly Energy in Norway: Reflections on the Process towards Successful Proposal - and Some Challenges Ahead." Presented at the 1st Energy & Environment Clustering Event, September 23.

2019c. "INCLUDE - INCLUSIVE Decarbonisation and Energy Transition." Presented at the Dialogmøte Forbrukerrådet - INCLUDE, October 21.

2019d. "INCLUDE - et nytt FME Samfunn: planer, mål og forskningen senteret bygger på." Presented at the Statusseminaret 2019, October 30.

2020

Andersen, May Kristine, Jeta Andreassen, Anne Catherine Ekroll, Grethe Frank Strand, Christine Haakstad, and Maria Rasmussen. 2020. "Byutvikling på Jessheim." Presented at the Course for students of landscape architecture, NMBU, Ås, Norway, September 7.

Andreassen, Jeta. 2020. "Byliv på Jessheim." Presented at the Utvikling av gode byrom - Ullensaker bibliotek, Ullensaker, Norway, February 17.

Bjørklund, Kjetil. 2020. "Kortreist Kvalitetssatsingen." Presented at the Referansegruppemøte for Kortreist-prosjektet, Include.

Blyverket, Inger Lise. 2020. "Så enkelt at Bly forstår." Presented at the Includes kommunikasjonsseminar.

Böcker, Lars, Katinka Kristine Holtsmark, and Tanja Winther. 2020. "Bærekraftige bilavgifter 2025 - innspill fra enkeltforskere tilknyttet INCLUDE til Finansdepartementet."

Böcker, Lars, and Per Gunnar Røe. 2020. "Inclusive Urban Epidemic Resilience: Investigating and Mitigating Uneven COVID-19 Impacts on Mobility, Health and Wellbeing." Presented at the Storbykonferansen 2020, October 28.

Departementene. 2020. "Handlingssplan fysisk aktivitet 2020-2029. Sammen om aktive liv. I-1196 B." Departementene.

Engeseth, Nora, and Martin Sortland Eick. 2020. "Byutvikling - hvordan kombinere sosial og miljømessig bærekraft." Presented at the Spires vinterseminar, Oslo, Norway, February 22.

Foss, Lene. 2020. "Relevance of the PhD Project- Responsibility and Stakeholders." Presented at the Kappaseminar.

Foss, Lene, and Mette Solnørdal. 2020. "Masteroppgave med FME Include." Presented at the Presentasjon for studenter ved UiT.

Gulbrandsen, Lars. 2020a. "Miljøhensyn og medvirkning i vindkraftsaker." Presented at the Seminar ved Norges Naturvernforbund, Oslo, Norway, January 15.

2020b. "Synspunkter på stortingsmeldingen Vindkraft på land - Endringer i konsesjonsbehandlingen (Meld. St. 28 (2019-2020))." Presented at the Lyttmøte om vindkraft, Arbeiderpartiets energi- og miljøfraksjon, Stortinget, Oslo, Norway, September 23.

Hammer, Ragnhild. 2020. "Sertifisering av bærekraftig reiseliv." Presented at the Referansegruppemøte i Kortreist-prosjektet, Include.

Hirsch, Cecilie, and H. Sollie. 2020. "Oslo kommune og Include." Presented at the Workshop Include, Oslo, Norway.

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Jevnaker, Torbjørn. 2020. "Hva er formålet med fjerde energimarkeds-pakke?" Presented at the EUs fjerde energimarkeds-pakke - SVs Stortingsgruppe, Oslo, Norway, January 13.

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2020b. "Hvordan sikre sosialt rettferdig klimapolitikk." Presented at the Møte i Sosialistisk ungdom Vestfold og Telemark, May 9.

2020c. "Spire og eksterne samarbeid." Presented at the Styremøte Spire, August 23.

2020d. "Hvordan sikre sosialt rettferdig klimapolitikk." Presented at the Møte i Sosialistisk ungdoms miljøutvalg, October 17.

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2020f. "Include - steder i endring." Presented at the Møte med brukerpartner Aspelin Ramm, October 26.

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2020d. "EUs Green Deal og konsekvenser for Norge." Presented at the NMBU-Fakultetet for Miljøvitenskap og Naturforvaltning, Online, May 29.

2020e. "European Green Deal and Consequences for Climate Policy." Presented at the NUPI Seminar, June 24.

2020f. "EUs Green Deal og havvind." Presented at the CICERO Prosjekt-workshop, Online, November 5.

2020g. "EUs håndtering av karbonlekkasje: status og utsikter." Presented at the Seminar Norsk Forening for Energiøkonomi, Online, November 23.

2020h. "European Green Deal: Konsekvenser for klimapolitikken i EU og Norge." Seminar presented at the Seminar Mellomkirkelig råd, Online, December 3.

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Standal, Karina. 2020a. "Gender Perspectives on the Global Energy Transition." Presented at the Energy Innovation: How to deliver on the European Green Deal - L'innovation energetique; au service du pacte vert European, January 17.

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2020c. "Kjønnsperspektiver på energiomstilling." Presented at the Håp gjennom handling i klimakrisens tid - Multiconsult, October 7.

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2020b. "Transport and Public Planning in the Norwegian Context." Presented at the UiO Forelesning, May 27.

2020c. "Nullvekstmål og byvekstavtaler i det grønne skiftet." Presented at the CIENS løsningspils, September 19.

2020d. "Sosial rettferdighet i det grønne skiftet." Presented at the KLP kommunenes klimakonferanse, October 27.

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2020b. "Prosjekt delingsøkonomi." Presented at the Styringsgruppemøte porteføljestyret NFR, September 16.

2020c. "Omstilling til lavutslippssamfunnet. Hva, hvem og hvordan?" Presented at the Klimakonferanse, Innlandet, October 14.

2020d. "Kortreiste kretsloop - bakgrunn og muligheter." Presented at the Referansegruppemøte prosjekt Kortreist - Include, November 4.

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2020d. "Innspill til nytt Olje for utvikling." Presented at the Norad. Idemyldring rundt nytt Ofu, May 19.

2020e. "Dialogmøte med Utdanningsforbundet." August 21.

2020f. "Include - Forskningssenter for sosialt inkluderende omstilling." Presented at the Presentasjon for ledergruppen Viken fylkeskommune, September 18.

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