

ACES News Letter 2021

Kick-off This autumn we greeted each other properly in a hybrid start-up meeting, which despite some technical problems was a very good day. Thanks to everyone who came, physically and digitally!

To the right we see our R&D partners from DRIFT - Dutch Research Institute for Transitions, Helge from the Norwegian Railway Directorate, and project manager Kristin. Below we see a picture from Ports of Norway's presentation, which shows that ports contribute to several of the sustainability goals and are therefore central



to sustainable societal development. Some of the things that were discussed at the meeting:

- The costs of renewing equipment and the need for support schemes
- Three challenges for ports are 1) uncertainty

about technology, 2) vulnerability when it comes to incorrect investments, 3) and how to obtain financing

- Small ports can be said to have special challenges

Further discussions were about willingness to change - for example, the role of the authorities and companies in this. In general, there was agreement on the need to collaborate across actors, in order to create an understanding of requirements and needs. And in continuation of that, the real need for this project was pointed out.

Transition process This brings us to the research design in the project - Transition management (TM). As presented by DRIFT in the Netherlands, this is a method for combining research and applied work - both considering how the port works, and how the companies in the port work to contribute to transitioning. In short, transitioning means a structural change in traditional practice, and the goal of TM is to make this process easier. Through dialogue in several rounds, the project will help the actors to interpret the complexity that arises in the face of new sustainability requirements and competing companies or opposition from societal actors. The mindset behind this process should be optimization, and to have a critical look at one's own and current practice.

Three ports are directly involved in the project, where the research team will be involved in setting up transition arenas in consultation with the ports. These are the ports of Bodø, Kristiansand and Borg. In advance of these arenas, we will work together to identify actors who will participate in dialogue in the future, as well as find the focus areas that both the ports themselves want to work with, and which we see may be appropriate in terms of the overall goal - energy and sustainable transition. Here, the work is already well underway, with initial dialogue and document collection. In this connection, a survey of international and national regulations has also been initiated to update the literature and changes that have taken place since data collection in the TRAZEPO - Transition towards zero emission ports project.

The New Year 2022 This is a collaborative project, and we believe that the methodology of transition management is very suitable for this type of project. In January, the project will start a large-scale knowledge transfer between DRIFT and SINTEF, where we will learn from the experts how to best put together and facilitate transition arenas, and together with the knowledge of ports, adapt the process to accelerate transitioning in the port sector, together with partners. In parallel with transition arenas for the individual ports in the project, a national transition arena will also be set up. Some of the players that are thought

Frontrunnere

One of the main works in work package 1 has also got off to a good start - mapping of frontrunner ports - to learn and draw inspiration from in the preparation of the arena work. Of international ports, we have established contact with Gothenburg, Aalborg, Groeningen, and in Norway we will take a closer look at e.g. Oslo, Bergen and CCB. Document collection has already started, and at the time of writing, interviews with management and environmental managers in several of them are planned. In March 2022, there will be a knowledge transfer meeting with the researchers who will work with the transition arenas.



to be taking part are the Coast Center Base AS (CCB), Ports of Norway, Norwegian Logistics and Transport Organization, Norwegian Coastal shipowners, Skift Norge, the Norwegian Coastal Administration, the Norwegian Maritime Authority, the Norwegian Environment Agency, the Norwegian Railway Directorate, and the Norwegian Public Roads Administration.

In January, we will also have our first meeting of our **Digital Advisory Board**. The intention with this board is to keep in touch with the international environment both within research in ports, and how other ports work with transitioning. Confirmed participants so far are:

René Poulsen (Copenhagen Business School), Daria Gritsenko (University of Helsinki), Steen Hintze (Port of Hirtshals), Joachim

Gunmalm, (Port of Gothenburg), Rosa Mari Darbra (Polytechnic University of Catalonia). This first meeting will also be visited by Valter Selén (ESPO). Other participants in the council are Asgeir Sørensen (NTNU) and Antti Silvast (Nordic Energy Research(Now DTU*)).

🎄 There is a lot of excitement ahead in 2022 and we look forward to the continuation. With this, we wish all our partners a very Merry Christmas and a Happy New Year!

OTHER CONNECTIONS:

Education/lecturing

NTNU KULT: Hiring Post-Doc
NTNU KULT: Home exam for Matser's students on Borg port
FME NTrans: Post-doc in NTrans connected to port cases in ACES

Connections to other projects

Maren II: Maritime Energy Transition. Funding from Nordic Innovation. The Norwegian side is led by RENERGY, SINTEF Energi and SINTEF AS are partners. In-kind from ACES and Interport.

Interport - Integrated energy systems in ports

ElMar - Electrification of maritime transport and the ports of the future

FME MoZEEES - Norwegian Research Center on Zero Emission Energy Systems for Transport

Gemini-Centre Sustainability Transitions

Popular science

Kristin Ystmark
Bjerkkan (2021) Bærekraft i havn og tilgrensende transportsystemer. Glimt fra forskning i SINTEF, Norske havner fagseminar 22. september 2021, Trondheim

Lillian Hansen (2021) Ports as energy hubs. MoZEEES FME Annual Meeting, 3.-4. november 2021, Trondheim

What does it mean to be a Partner?

<https://www.forskningsradet.no/siteassets/sok-om-finansiering/samarbeidspartner-i-prosjekter.pdf>