



Circular Economy Network of Ports (LOOP-Ports)

National Workshop i Danmark

26. november 2020

AGENDA

- Introduction to LOOP Ports
- Circular Economy and the port sector
- Learnings and obstacles from workshops with ports
- Roundtable: "your work with circular economy"
- How to move forward
- Wrap up





- Screenshots og GDPR
- Vi taler gerne “Danglish”
- Opfølgende mail med referat og ekstra materiale



Today's team



Lasse V. Thaisen
Research Assistant, DTU



Tim C. McAloone
Professor, DTU



Monika Elend
Project Consultant, NTU int





Introduction to LOOP Ports

Lasse Vinblad Thaisen



PORTS

ideal places to develop Circular
Economy Activities

- Crossing-points for all kinds of waste and industrial flows.
- Logistical hubs for the import and export of waste materials.
- Setting-up location of industries that are active in the treatment, collection and shipment of waste
- Stimulate the emergence of innovation circles

LOOP-Ports aims to **facilitate the transition to a more circular economy in ports** through the creation of a Circular Economy Network in Ports that will provide an innovation ecosystem around the port activity and stimulate circular economy initiatives in ports.



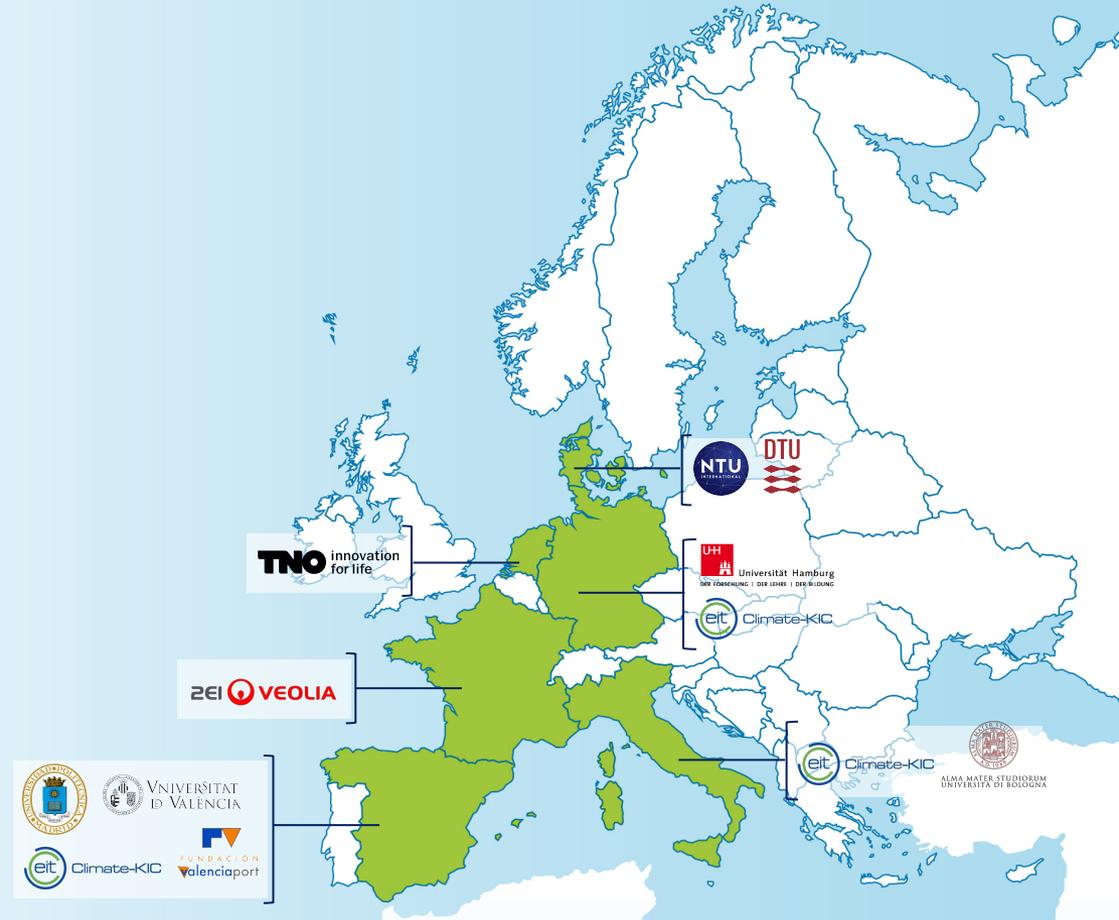


October 2018 - December 2020

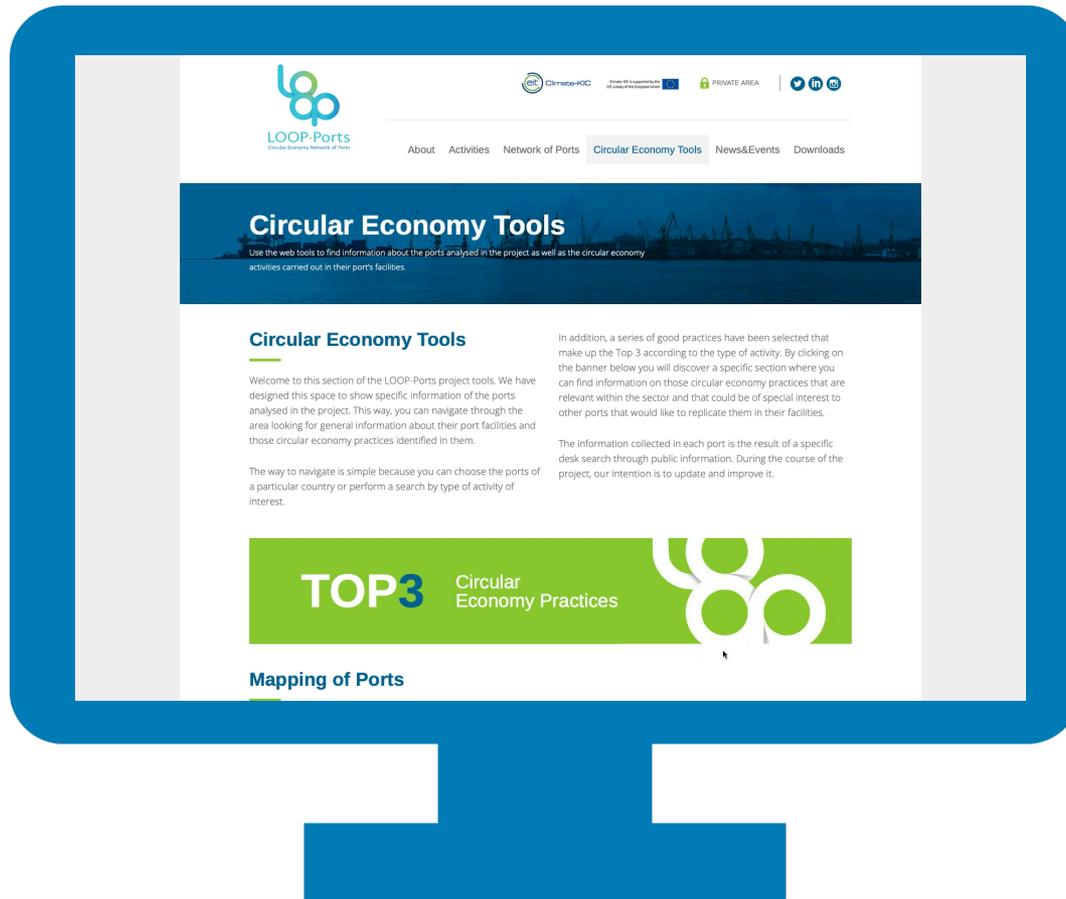
13 partners

6 European Countries

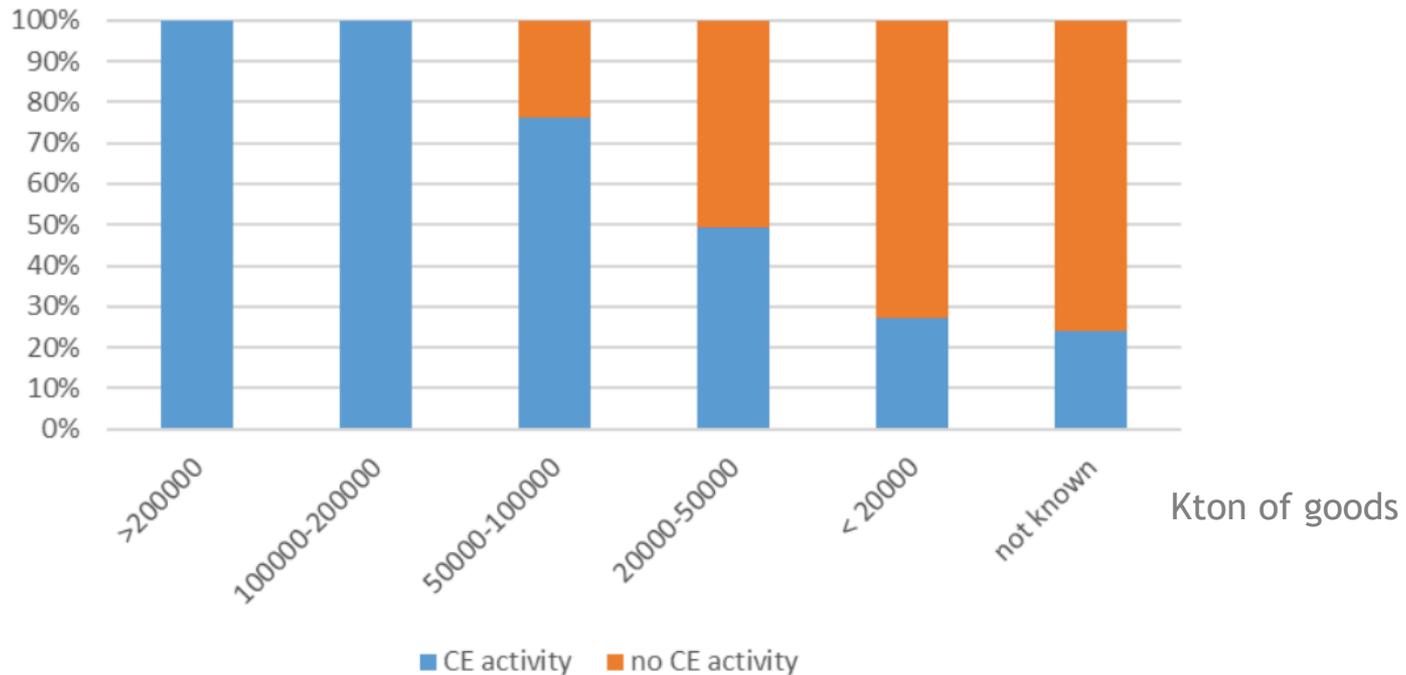
France
Italy
Germany
Netherlands
Denmark
Spain







The more material flow (port size) the more CE activities





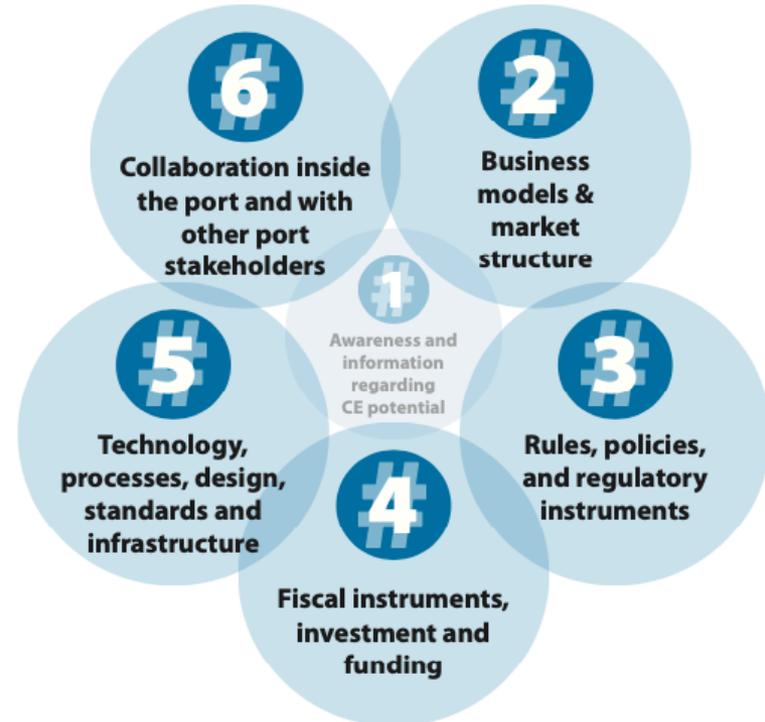
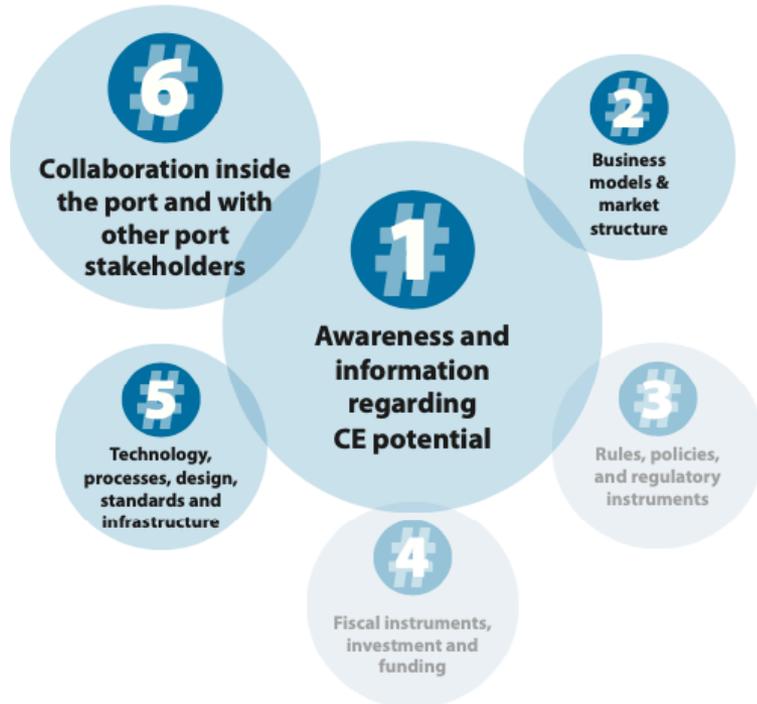
Focus for knowledge, skills and capabilities for developmental stages

Newcomer ports

Ports that are exploring CE potential

Forerunner ports

Ports that are advanced in their application of CE





MOERDIJK, NL

Valorisation of waste tires through pyrolysis

Piloting return logistics to valorize waste tires through pyrolysis - replacing incineration to obtain gas, oil and biochar for producing new goods and generation of energy.



AALBORG, DK

Circular sourcing for cement production

Dredging has become a value adding activity - the sands are used as a raw material in the production of grey cement in the co-located cement plant.



BOULOGNE-SUR-MER, FR

Valorisation of fish by-products

Former waste streams from the fishing industry are being used to manufacture a range of high-value products in the nutrition and beauty industry



- Surplus green energy to hydrogen in the Port of Emden
- On-shore power to cruiseships in Kristiansand
- Excess heat from cooled warehouses is used for heating buildings and swimming pools in Valencia
- Developing industrial symbiosis in the Port of Aalborg
- Maintenance and repurposing of shipping containers in Italy
- Potential new uses of recycled fiberglass from ships
- Energy recovery of rubber tires into oil and gas via pyrolysis in Moerdijk