



CIRCULAR ECONOMY PANEUROPEAN Online Workshop 7th October 2020

Ports & Circular Markets

Breakout sessions, topic #3

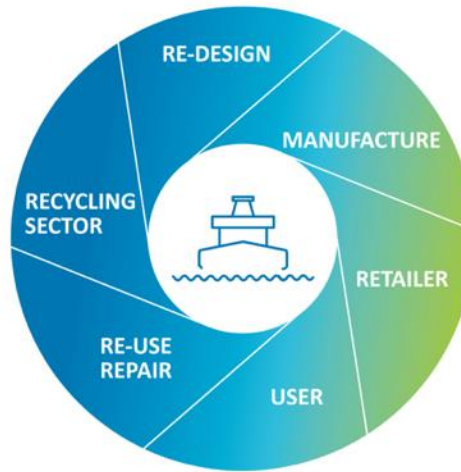
Lia De Simon, Ton Bastein, Jorge Miguel Lara López

TNO innovation
for life

 FUNDACIÓN
VALENCIAPORT

On the topic of 'circular economy'

For the overall topic...



1. Briefly (!) introduce yourself:

- Which port? What role?
- Experience with CE? (None (yet), somewhat, very experienced...?)
- What do you hope to get out of today?

2. What is your connection to or experience with Circular Economy?

- If new to CE: what attracts you? Which directions are you exploring?
- If experienced: what have you already learned?

In this session we will focus on theme 3

In the other sessions the other two themes will be discussed...



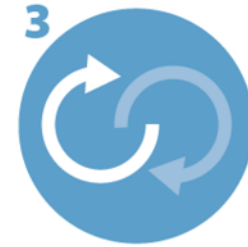
Circular port assets & equipment

Optimisation of capacity and life-time extension of port assets, such as buildings, cranes, quays, buoys and other equipment through smarter use (e.g. renting, sharing) and smarter maintenance.



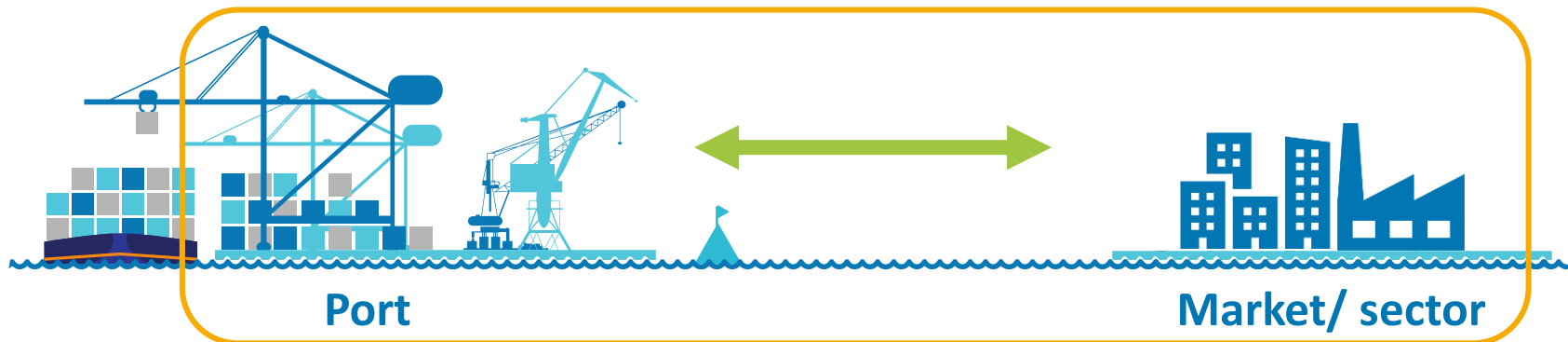
Circular flows within ports

(and between ports & surrounding area)
New uses for would-be wastes generated by port activities, such as ship waste and by-products of industries within ports and port activities.



Ports & circular markets

Ports enabling other industries – both on and offshore – to become more circular by developing new activities that connect supply and demand for circular resources (targeted at resource flows through ports).



PORTS AND CIRCULAR MARKETS

For example...



FREDERIKSHAVN, DK

Circular Decommissioning of ships and rigs

The port of Frederikshavn have established a dedicated infrastructure for decommissioning of offshore structures enabling reuse and refurbishment of machinery and equipment.



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.



ANTWERP, BE

Linking Circular Markets in the Carloop Project

Antwerp Port Authority has set up a pilot project to bring back used car parts. The usable parts are sorted at local partners in West Africa and sent back to Antwerp for recycling or refurbishment.

A quick quiz to kick-off the discussion

Two short questions...



2-3 mins

- **This theme:**
- **... is very important for our port at the moment?**
- **... is very easy to capture the circular opportunities of?**
- **... will be more important for our port in the future?**

We will discuss how more can be done or how barriers and enablers can be overcome in the next part of this session.



Mentimeter

- 1. Please go to: [menti.com](https://www.menti.com)**
- 2. Use the code: 98 56 14**
- 3. Click 'submit'**
- 4. Answer the questions**

<https://www.mentimeter.com/s/eb461f5e31326658eab827e2040d5032/d54383a09332>

Follow-up question

The key question...



- **What would make it easier to do more on this theme?**

Or: what would have to change to capture more of the opportunities this theme represents?
This can be within the organisation of the port authority, or outside of it.

*A few
minutes to
think...*



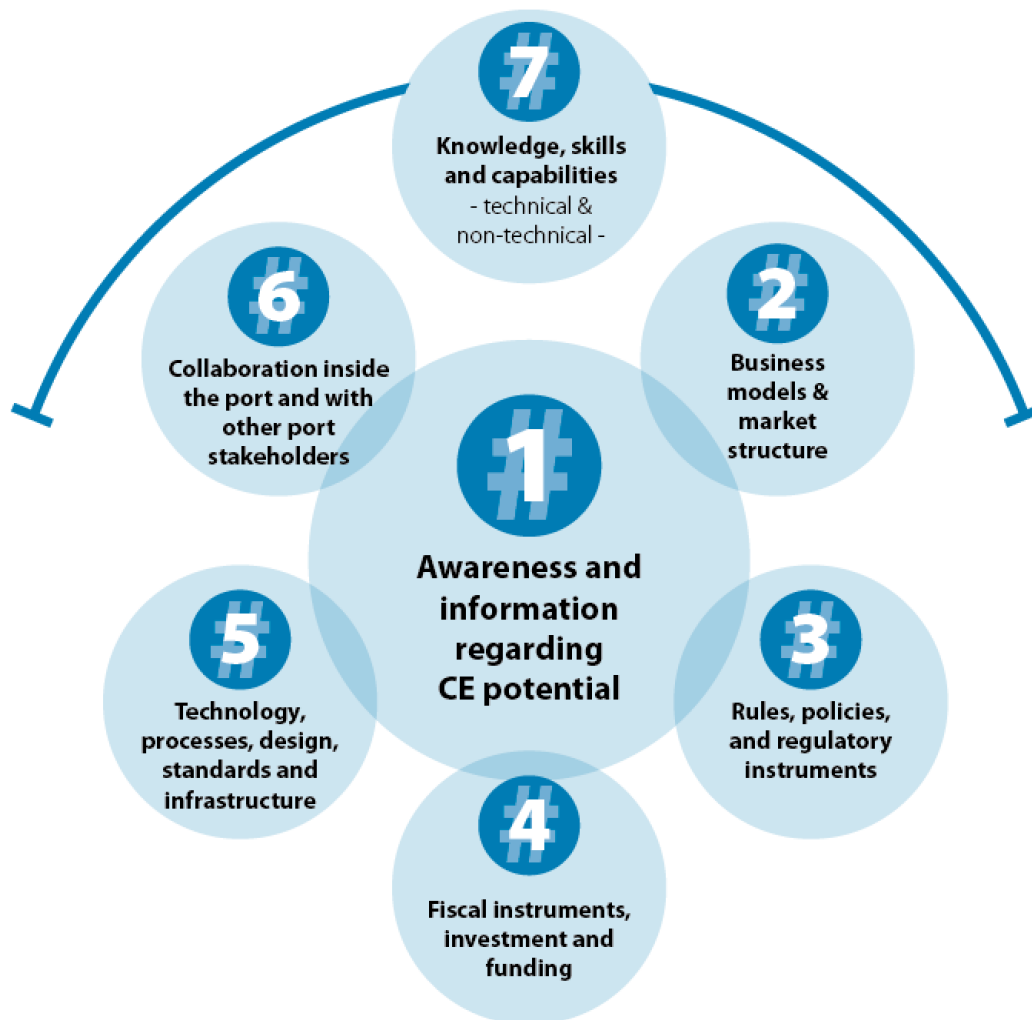
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LEVERS FOR CHANGE

For example...





UNIVERSITAT
DE VALÈNCIA



Technical University
of Denmark

TNO innovation
for life



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG



ALMA MATER STUDIORUM
UNIVERSITÄT DI BOLOGNA



Climate-KIC

Climate-KIC is supported by the
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LOOP-Ports

Circular Economy Network of Ports

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