

PORT OF MOERDIJK

Ecomondo 2021 CINEA event
26-10-2021

Jay Baladien

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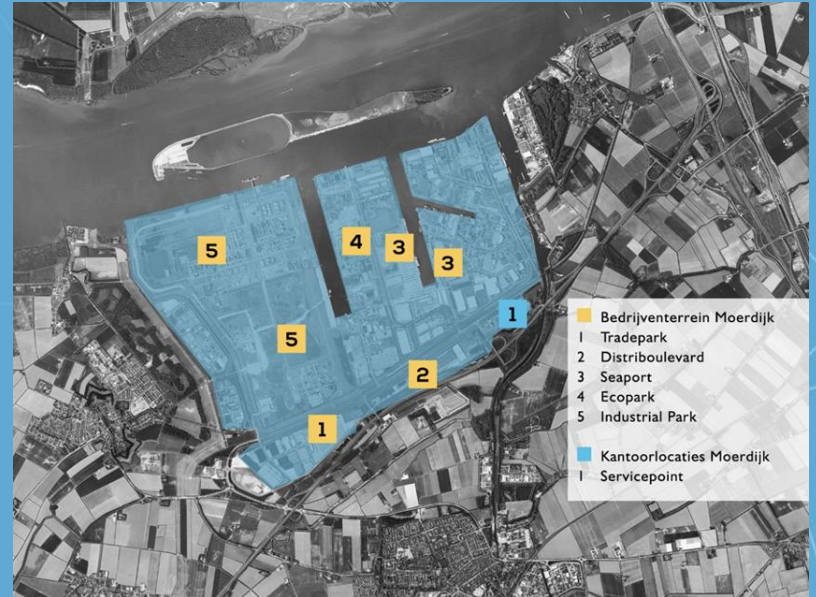
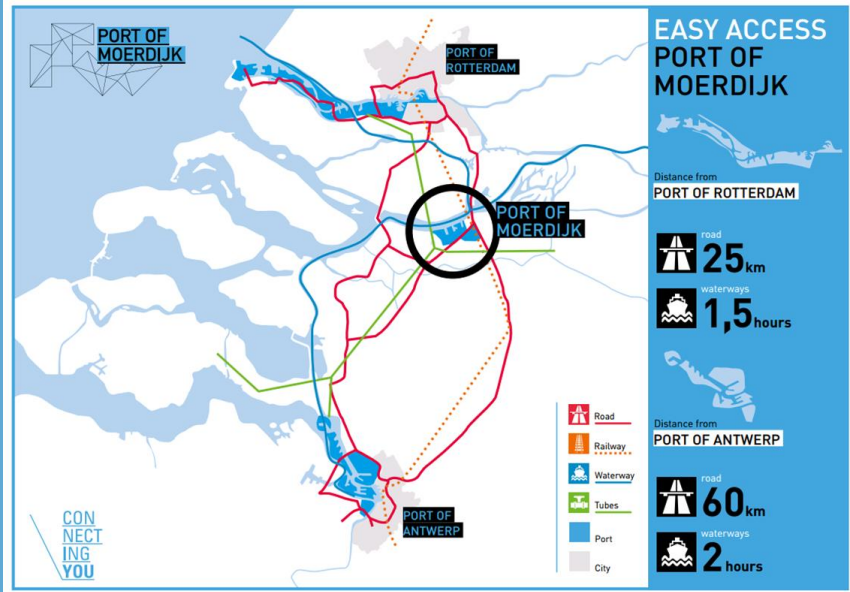


PORT OF MOERDIJK 2020

Area size	2635 ha
Companies:	± 430
Transshipment	16,5 mln ton
Seagoing vessels	2.000
Inland shipping	11.500
Employment (direct& indirect)	18.705
Turnover Port Authority	22,0 mln (land exploitation excl)



CLUSTERS



PORT STRATEGY MOERDIJK 2030

The hub for sustainable logistics and process industry in the Flemish-Dutch Delta.

Strategy for realization

- Short sea shipping
- Sustainable logistics and process industry

Locations to develop in line with strategy:

- Logistics Park
- Industrial Park
 - 30 ha for circular industry



HAVENSTRATEGIE
MOERDIJK 2030



PYROLYSIS FIELD LAB

Port of Moerdijk set up the Pyrolysis Field lab Southern Netherlands.

The field lab works out how residual waste flows can be converted into valuable products.

This project contributes to the circular economy: to reduce environmental impact and CO2 emissions.

- Adding value to residual flows
- New business
- Successful business cases
- Innovation
- New products and technologies
- Leading position for Southern Netherlands
- A strong impulse for the Biobased Delta Region



PYROLYSIS FIELDLAB RESULTS

- 14 Parties involved in the fieldlab
- Tests to residual flows
 - Biomass to oil
 - Biomass to char
 - Waste to fuel
 - Waste to plastics
- Students have worked on circular industry topics
- Multiple LCA studies done
- Port of Moerdijk has a track record on pyrolysis
- Will focus on waste to plastics in phase 2



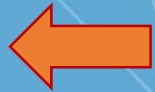
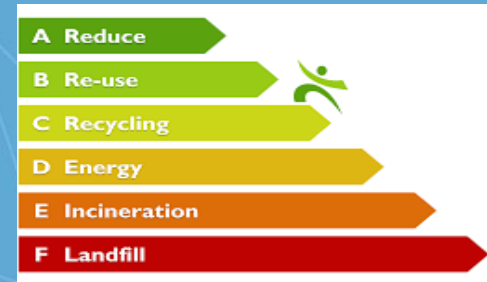
PYROLYSES FIELDLAB RESULTS

Challenges

Although we all focus on circularity, it took us 2 years to receive a permit

The End of Waste **Criteria** by the EU

1. the substance or object is to be used for **specific purposes**;
2. a **market or demand** exists for such a substance or object;
3. the substance or object **fulfils the technical requirements** for the specific purposes and **meets the existing legislation and standards** applicable to products;
4. the use of the substance or object will **not** lead to **overall adverse environmental or human health impacts**.



PYROLYSIS FIELDLAB RESULTS

Challenges

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Scalebility of pyrolysis plants

Commodetizing specs, integration of
Value chains

Creating demand in EU



CHALLENGING TIMES

The three main identified challenges are:

- 1. The readiness of the market – how to ensure that there are enough waste flows to sustain an economic-viable integrated value chain*
- 2. EU waste regulation – end-of-waste criteria do not always allow for circular economy approaches*
- 3. Innovation environment: how to get permits to test innovative approaches.*



THANK YOU FOR
YOUR ATTENTION!

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