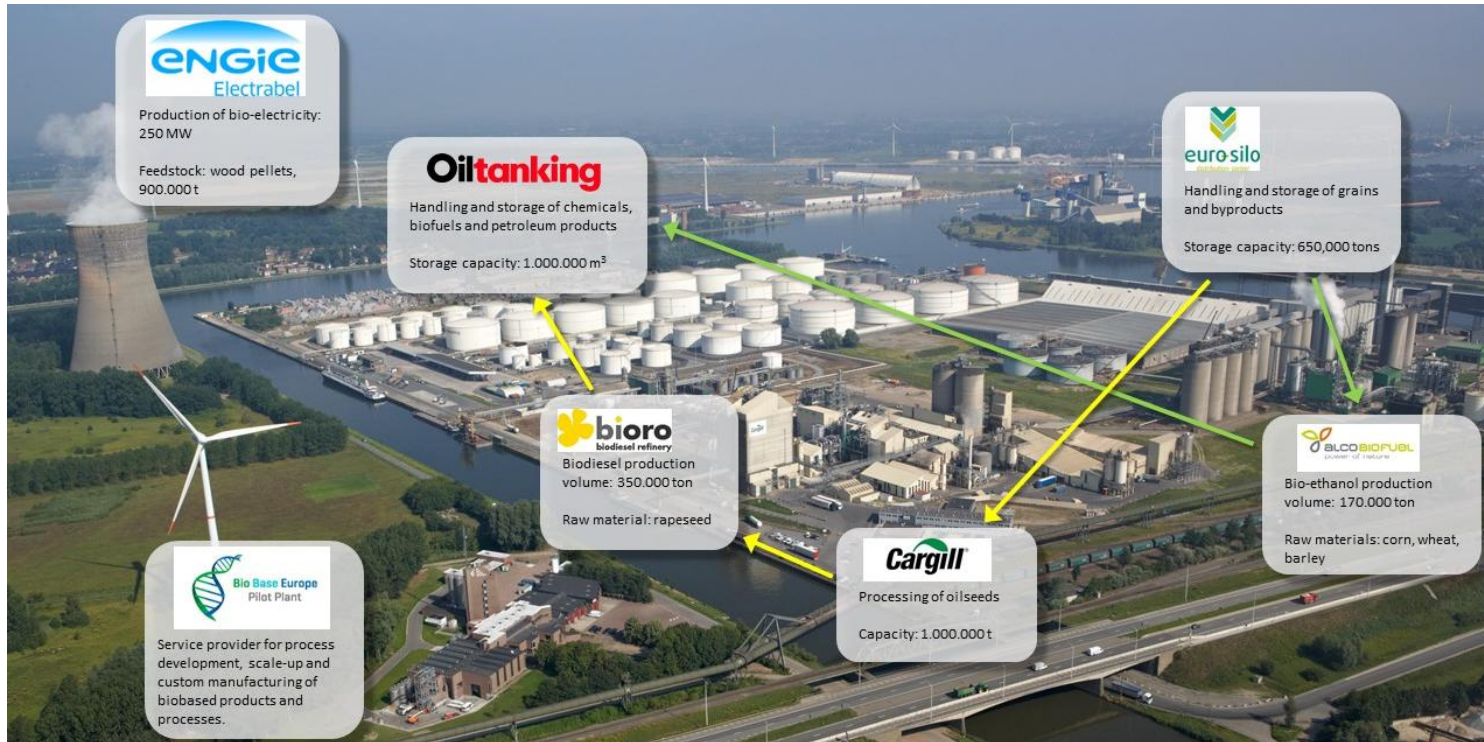


The biobased economy in the Ghent region: Opportunities and challenges

Linda Verdonck & Sofie Dobbelaere

14/09/2017

RODENHUIZEDOK Biorefinery Cluster



The largest integrated production site for bio-energy in Europe:

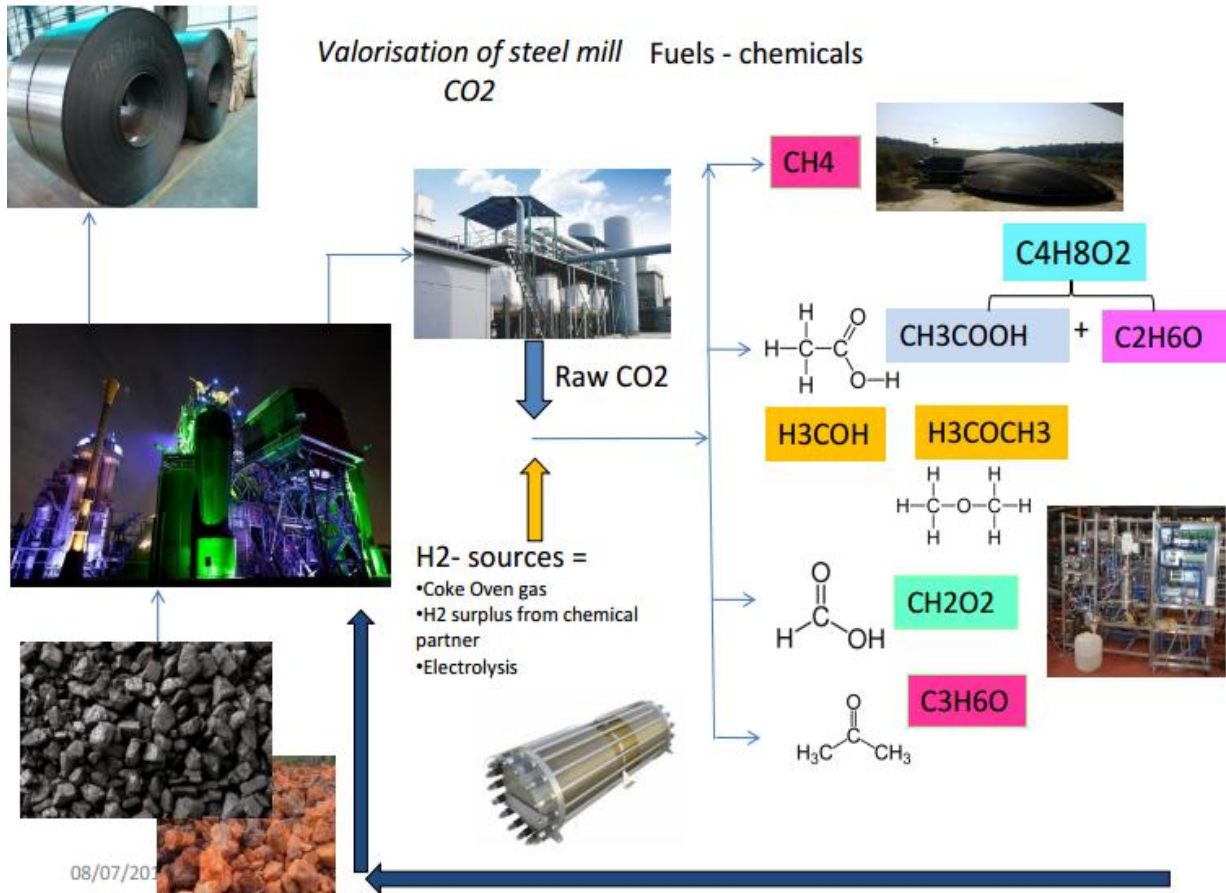
- Alco Biofuel: 250 000 m³ bio-ethanol
- Bioro: 350 000 ton biodiesel
- Electrabel: 240 MW bio-electricity
- Eurosilos: 650 000 tons storage capacity

1. Vision : Gasification of (bio-)waste

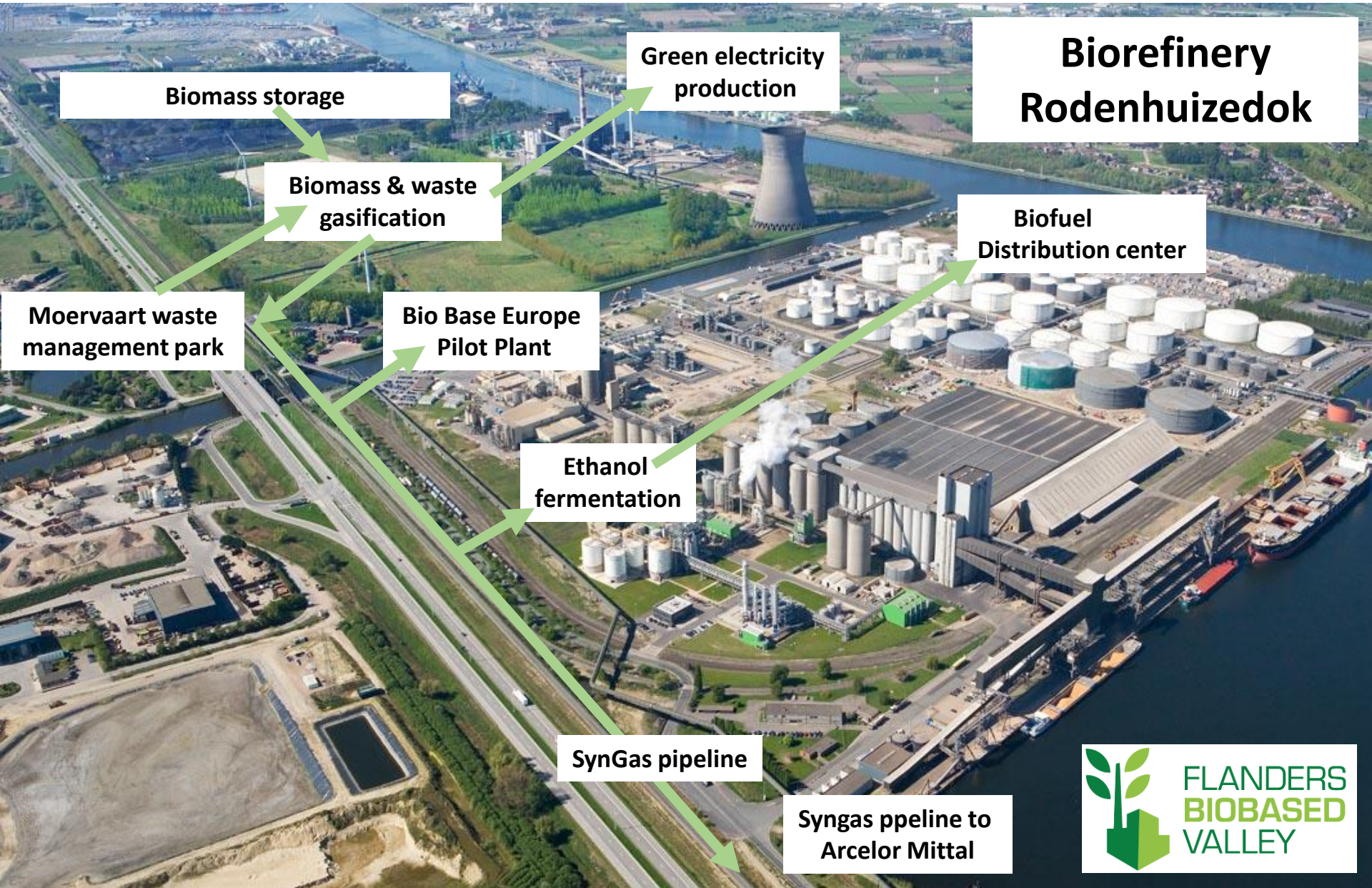


2. Vision : THE ZERO EMISSION PLANT

The steel mill of the future ... will sell CO2 - derivates



Expanding & integrating the cluster



Potential for investment ?

The region wants to build on these developments:

- new cluster of renewable chemicals
- syngas and (bio)-waste as feedstock

This means:

- Creating new synergies /symbiose between unrelated sectors
- A B2B trajectory
- Supporting new infrastructure (pipelines ...)/ shared risks
- Feasibility studies project: data difficult to obtain

Need for support to stimulate specific investment initiatives

Self assessment Tool?

Availability of feedstock :

- is a + / with good infrastructure not decisive factor
- Some feedstocks only usable in " local" initiatives (logistics)

Infrastructure & financing :

- is paramount
- Support public funding accelerates private investments

Skilled workforce & support institutions

- role in decision making of businesses ?

(Regional) markets

Entrepreneurship

- limited importance in large scale transition projects (gaseous waste)
- Public support

Barriers ?

Regulatory framework is not appropriate to bridge policy and new industry

- Not flexible or advanced for new developments

Company investment in high CAPEX industrial projects within **new markets**

Investments into framework **infrastructure** : especially in case of symbiose and new value chains : shared risk

No incentives nor leverage for transition towards sustainable chemicals

Thank you for your attention

Contacts:

- > Linda Verdonck: linda.verdonck@pomov.be
- > Sofie Dobbelaere: sofie.dobbelaere@ugent.be
- > Brecht Vanlerberghe: brecht.vanlerberghe@bbeu.org