

Introduction of Biobased Delta



Growing a Green Future



Rop Zoetemeyer 15 June 2017

Stichting Biobased Delta www.biobaseddelta.nl

Biobased Delta region



bio

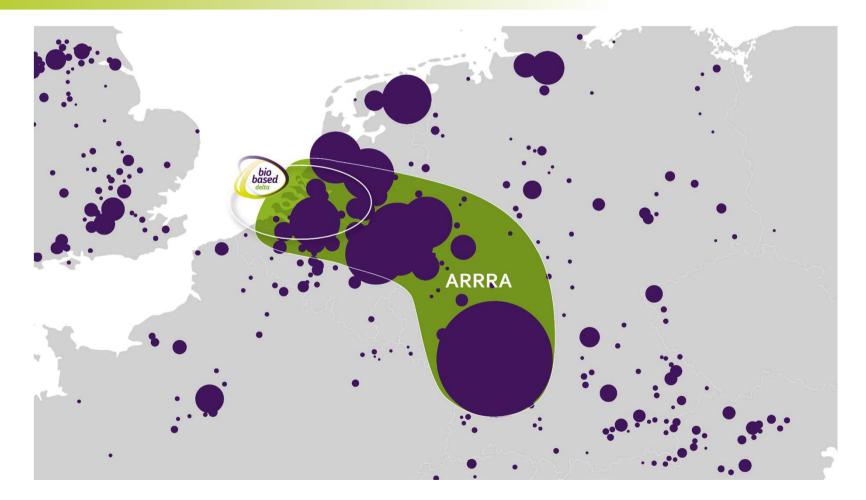
Over 2 million tons of sugars and starches produced within a 100 km radius





Antwerp, Rotterdam, Ruhr, Rhein Area covers 40% of Europe Chemical Industry





Biobased Delta eco system





Key Flagship programs

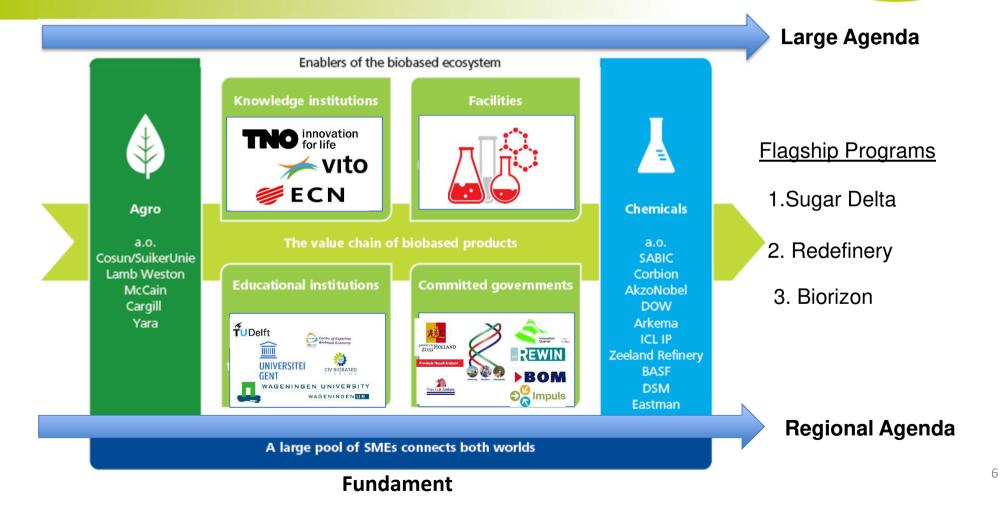
- 1. Economic value of carbohydrates (Sugar Delta)
- 2. Biorefinery wood pellets/chips (Redefinery)
- 3. Sugar and lignin to Bioaromatics (Biorizon)
- 4. SME driven regional programs (9 programs, clusters)

The Foundation Biobased Delta is a Triple Helix Public-Private Partnership covering all relevant organizations in the area needed to do successful development, innovation leading to investment:

- Local, regional and central government
- Port authorities
- Regional and national development agencies
- SME's and major companies based in the region
- Other PPP's and cooperation projects
- Academia Applied Sciences
- Industrial sites
- Top locations,

We help companies to recognize the unique biobased opportunity that the Biobased Delta region offers.

Agro meets Chemistry : stakeholders, enablers, interactions and agenda

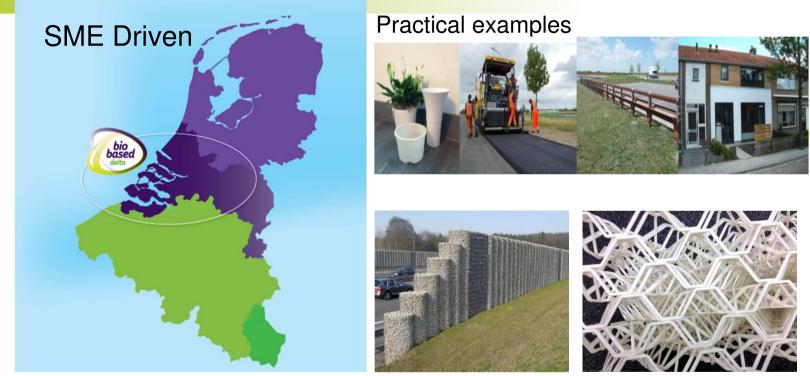


bio based

delta

Regional Agenda's – per province



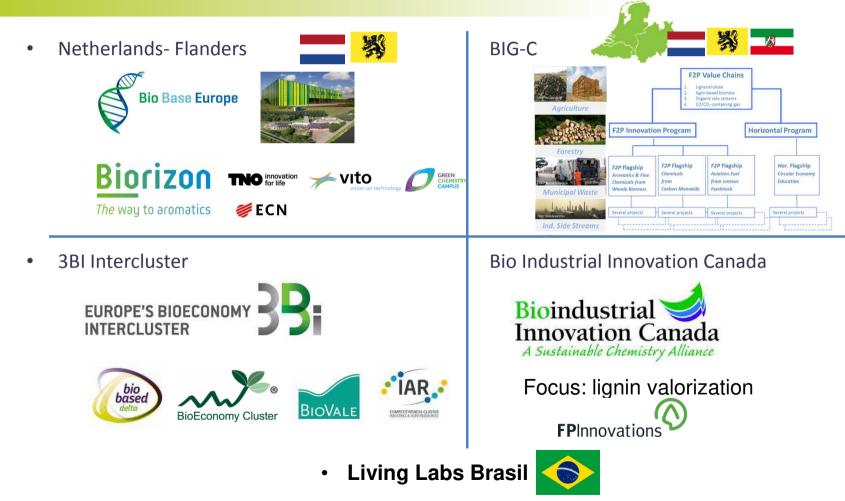


Clusters / Focus areas:

Packaging, Horticulture, Infrastructure & Construction, Plant Ingredients, Habitat systems, Natural Fibers, Natural Coatings & Coloring Agents, Algae & Seaweed, Biobased Purchasing.

International Collaboration





Knowledge Infra: Top locations









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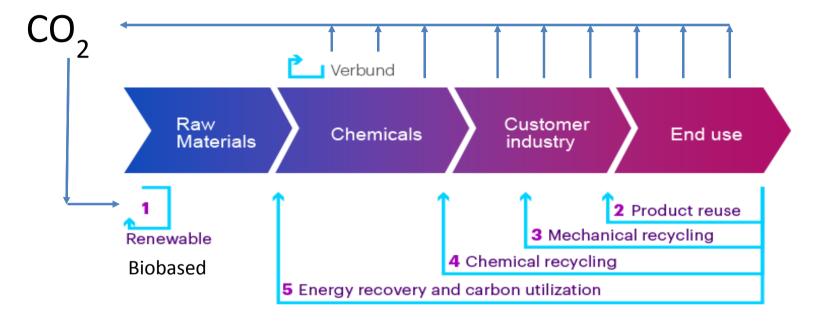
Annex: Goals and actions for creating BBE



- Netherlands: 20% biobased feedstock and 10 % circular feedstock (recycle) in 2030 in the Dutch chemical industry (VNCI- Top sector Chemical Industry)
- Lessons learned: need operation of scale, smart integration of all streams and optimum product mix with cross-sectorial, cross-market approach
- Just replacement of fossil feedstock by biobased and circular feedstock is not attractive. There needs to be a growth agenda connected to the transition
 - → Innovative products, new markets, new & extended value chains
- Growth agenda is typically tied to the **societal mega-trends**: ageing population, urbanisation, low carbon economy, new ways of mobility
- Challenges are so big that **collaboration** is not an option, but a **MUST**

Annex: Coupling Circular to Biobased Economy





of the European chemical industry molecules provided to customer industries and end-users can be recirculated using all five loops.

Source: Accenture Report 2017 CEFIC

up to **70%**