



A saccharide agenda for the Northern Netherlands

Webinar Januari 28 - 2021







Chemport proposition



- Two complementary chemical clusters
- Green regional feedstock
- Seaports enabling imports
- Direct connection with offshore wind
- Sizeable knowledge cluster+ talent
- Circular polymers, focus on poly-condensation



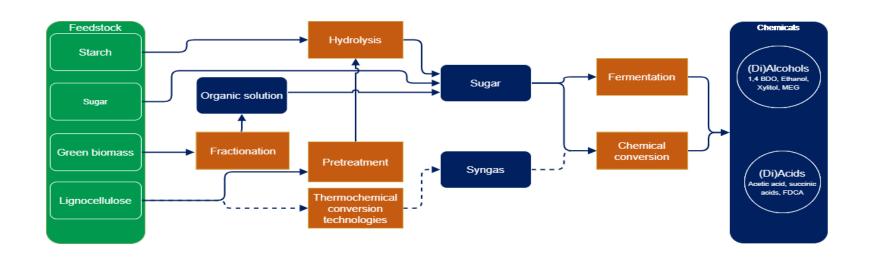
The need for long term renewable carbon is clear

- Carbon is an essential buildingblock for everyday products
- Carbon from fossil resources is both limited and undesirable
- Renewable carbon is needed to secure welfare



Saccharides are an attractive source for renewable carbon that fit the region

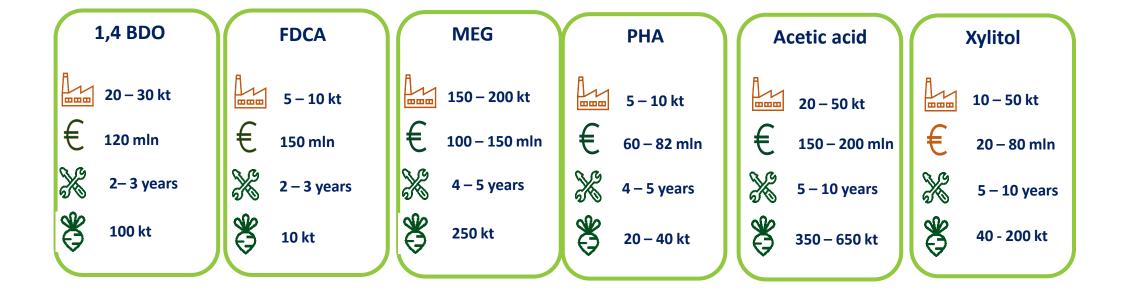
- Sacharides are versatile platform molecules
- A variety of renewable sources is available
- Multiple conversion routes have already been developped





Carbon from saccharides

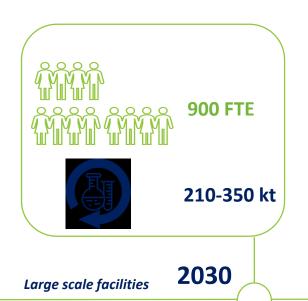
• Examples of typical intermediate chemicals that are within reach include

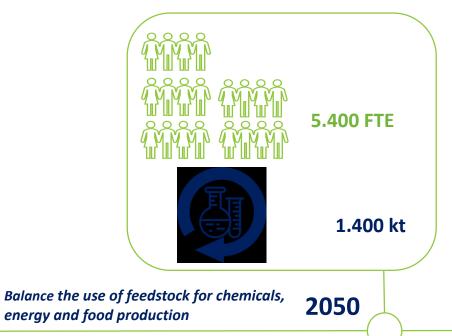




The opportunities of Saccharides are clear and substantial







- Use strong agricultural sector
- Use ports and existing industrial ecosystem
- Replace existing value chains by saccharide based chains

- Strengthen and expand feedstock production
- Develop markets and technology
- Regulate and stimulate
- Develop the ecosystem



Joint action is needed to shape the

future



- Incentives and regulation
- An integrated approach and development of the knowledge base



 Strengthening and expanding feedstock production







Challenges for the Chemport partners

Development of markets and technology

- Attract companies
- Foster innovation
- Engage downstream users
- Support with adoption of saccharide-based products

Incentives and regulation

- Stimulate and regulate the use of saccharides
- Raise CO2 prices
- Support innovative applications

Strengtening and expanding feedstock production

- Develop additional saccharide sources
- Develop integrated facilities
- Increase logistic efficiency
- Develop low-cost saccharide raw materials

An integrated approach and development of the knowledge base

- Develop cross-sectoral partnerships with Weser-Ems
- Develop integrated businessmodels
- Improve utilities
- Develop research programs
- Support and stimulate education



