



Guldborgsund – a bioeconomy hotspot



GULDBORGSUND

Municipality of Guldborgsund

- Rural municipality
- Richest soil – strong reputation for plant breeding expertise
- DK seed breeding center
- 328 km coastline
- Low business activity
- Shrinking population
- Good transport infrastructure





GULDBORGSUND

Unanimous city council mandate

Make a platform to support local development of bio economy through valorizing surplus and waste biomass and bio energy production in order to:

- ✓ create new jobs
- ✓ reduce CO₂ emissions
- ✓ boost local knowledge and science activities
- ✓ green the businesses

The municipality of Guldborgsund facilitates but does not invest

Guldborgsund: strategic focus on bioøkonomi

- Basis for new jobs through
- A green economy

What actions do we take ?

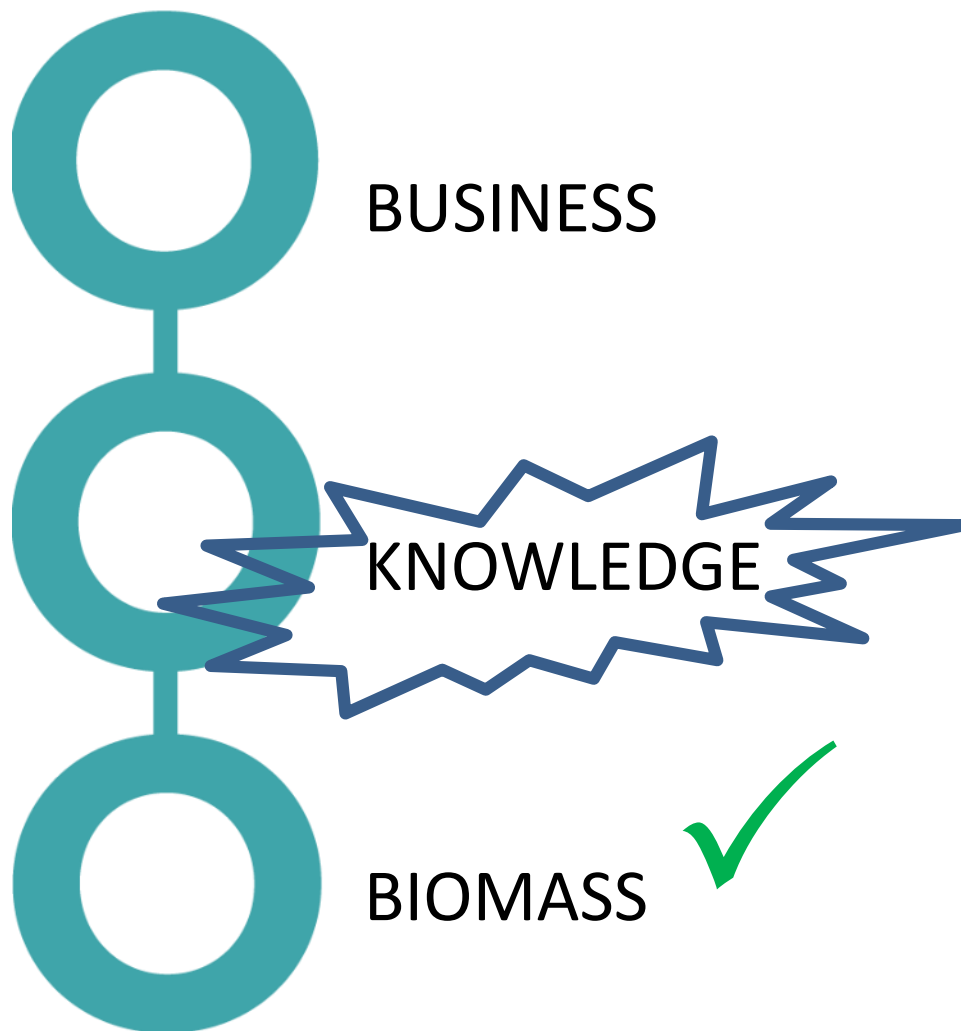


BUSINESS

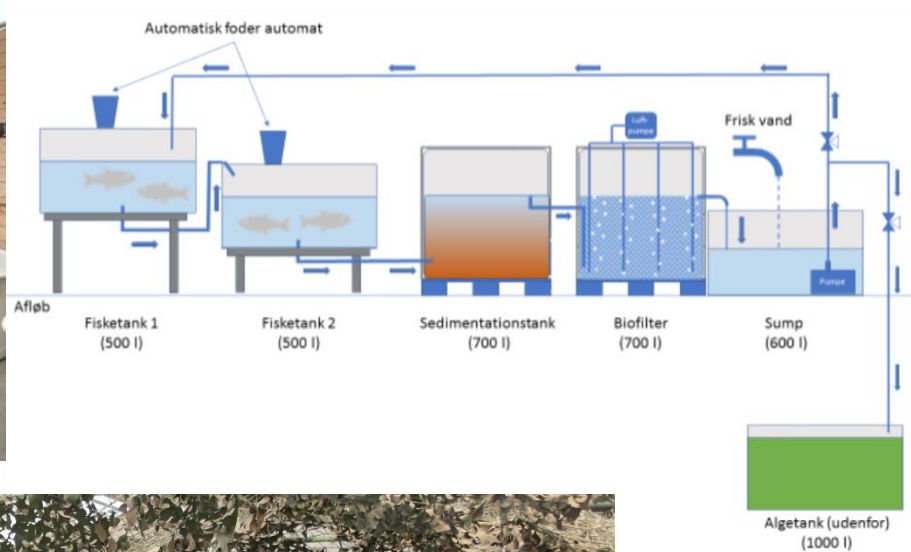
KNOWLEDGE

BIOMASS





InnoAquaTech



Partnerskaber og samarbejdsaftaler



Interreg
North Sea Region
BIOCAS

European Regional Development Fund



EUROPEAN UNION

CBIO
CENTER FOR CIRKULÆR
BIOØKONOMI



AARHUS UNIVERSITET

SDU

CARL
VON
OSSIEZKY
universität
OLDENBURG

**van hall
larenstein**
university of applied sciences



Heidekreis
Mitten in Niedersachsen – mitten im Leben.

**UNIVERSITEIT
GENT**



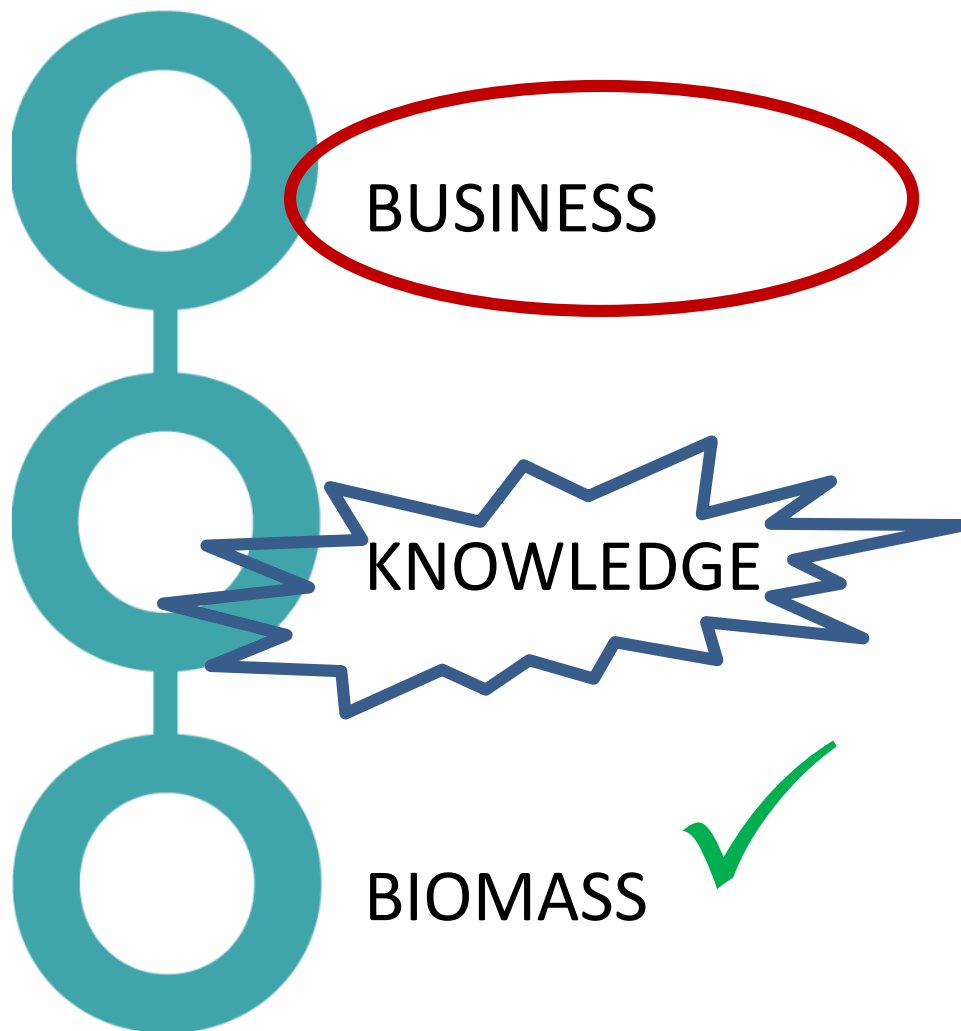
HEDESELSKABET



**TEKNOLOGISK
INSTITUT**



GULDBORGSUND



Danish Bioeconomy Conference



You are
invited!



Examples of local biomass/residual resources to be valorised through **Circular Bioeconomy**.

We work with green and blue biomass:

- Sugarbeet leaves
- Straw
- Round goby
- Beach cast
- Seaweed
- Surplus electricity





GULDBORGSTAD

 **Interreg**
Baltic Sea Region



ALLIANCE

BIOFISK case

Harnessing beach cast of wild seaweed and eelgrass as biomass for new productions and services.

Feasibility test of cast as medium for breeding insects for use in the production of protein fish feed.



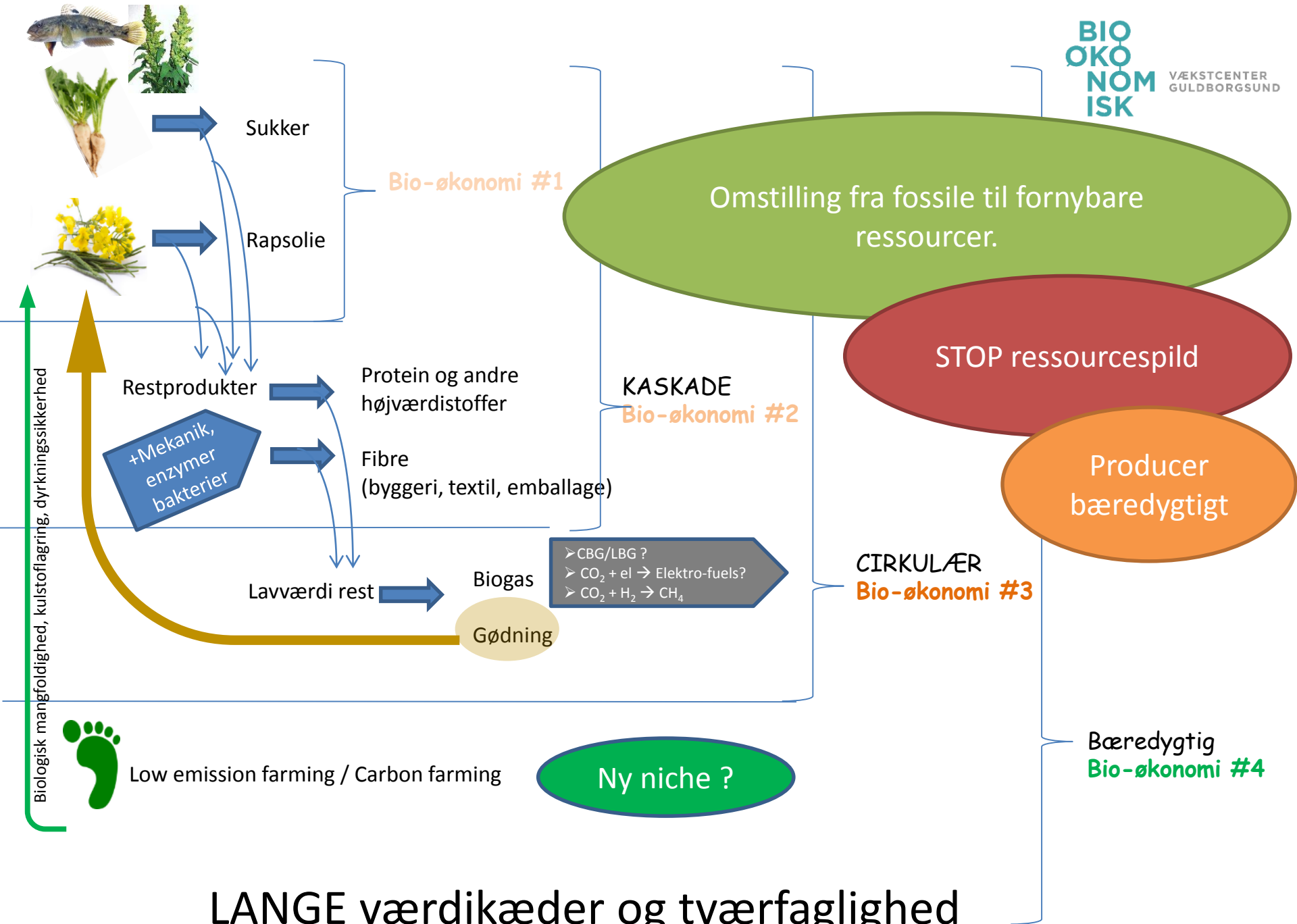
BIOFISK: beach cast biomass for feed?

- Main idea: instead of paying lots of money to clean and dispose of beach cast, GBS would like to see if it can form a basis for a new feed product, attract production companies and save money!
- Progress since early summer
 - 48 samples from 6 coastal areas in GBS - June – October
 - 48 samples dried, measured for dry matter, pH, conductivity, sand and ash in DTI labs. All samples evaluated regarding content of eel grass, bladder wrack, sea salad, fedtemøj, etc.
 - 9 samples sent to EUROFINS show no challenges regarding heavy metal content
 - Beach cast mixed with a) bio pulp and b) malt mash (25-75%) and fed to BSF larvae: Up to 25% beach cast acceptable for larvae growth rate.
- Needs/challenges 2018:
 - Test and trial of feed mixtures , contact with feed companies
 - Proof-of-concept, business case, beach cast perspectives
 - Documentation re: cultivation of root veg in beach cast (KTH ?)
 - Documentation of micronutrients and probiotic qualities
 - EU restrictions of bio pulp as novel feed content

Visit our homepage:
bioguldborgsund.dk

GULDBORGSUND – ET VÆKSTCENTER FOR BIOØKONOMI





LANGE værdikæder og tværfaglighed