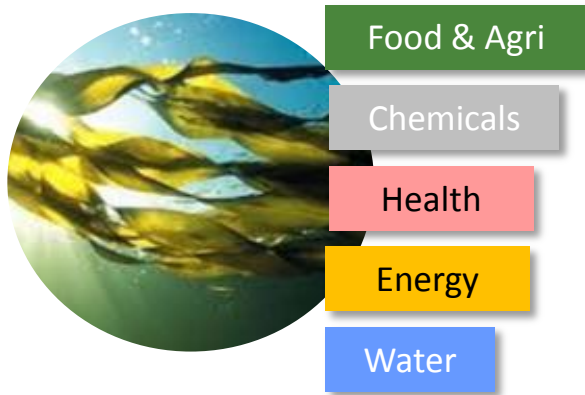


Seaweed as feedstock for the biobased economy

Building sustainable value chain in North Sea region



Piotr Pukala, ECN

Assen

16 June 2015

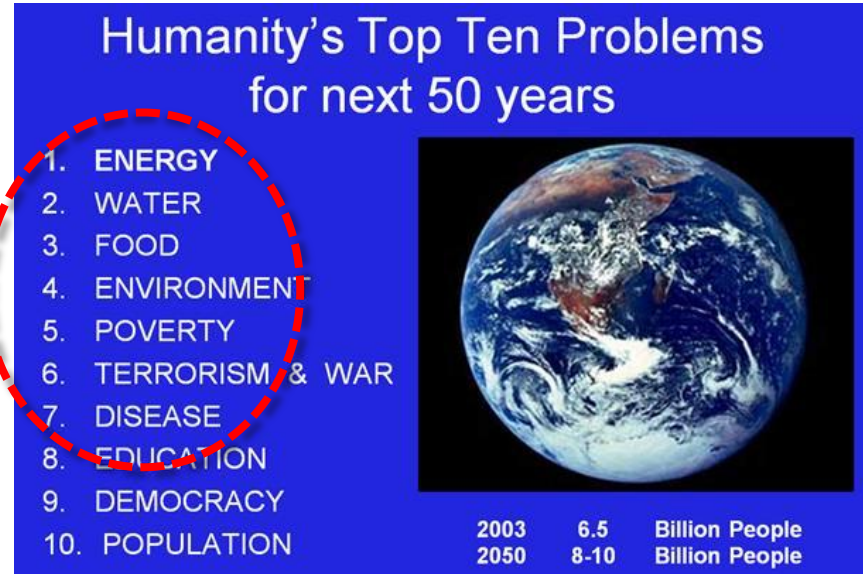
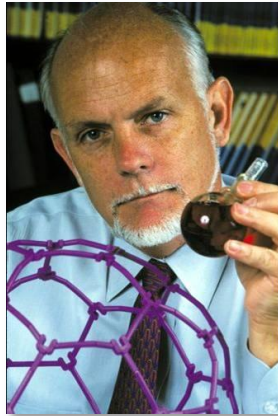


North Sea Seaweed Alliance

Can seaweed help to address major stress factors?

- R. E. Smalley, 2003

- Nobel price winner
- Rice University



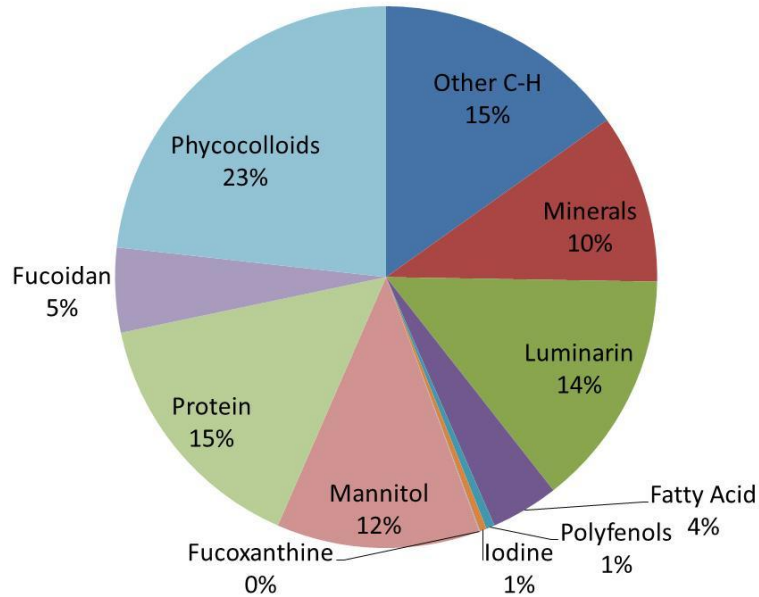
www.wikipedia.com



North Sea Seaweed Alliance

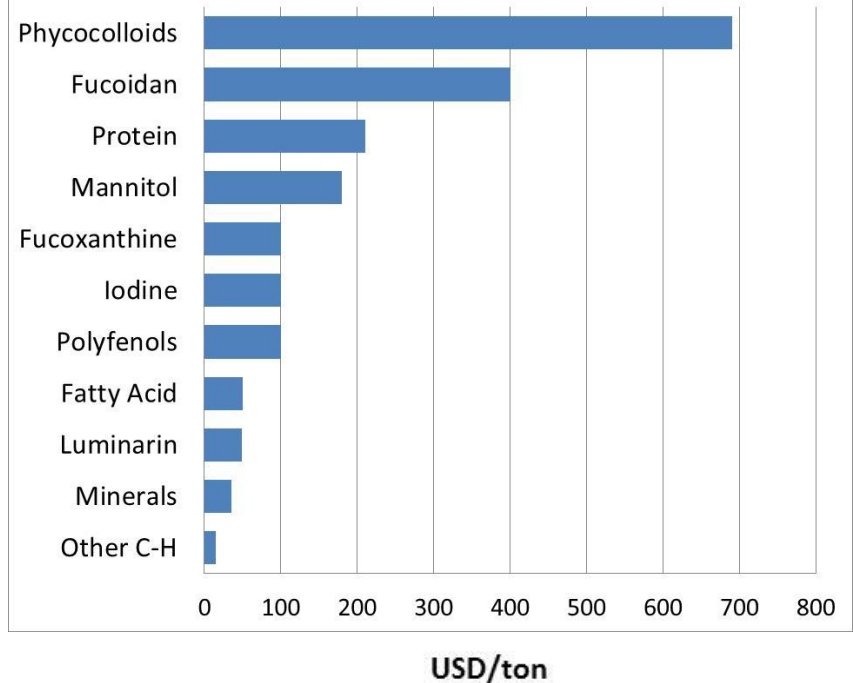
Due to its interesting unique constitution

Components of a typical seaweed feedstock
Saccharina latissima (dry matter)

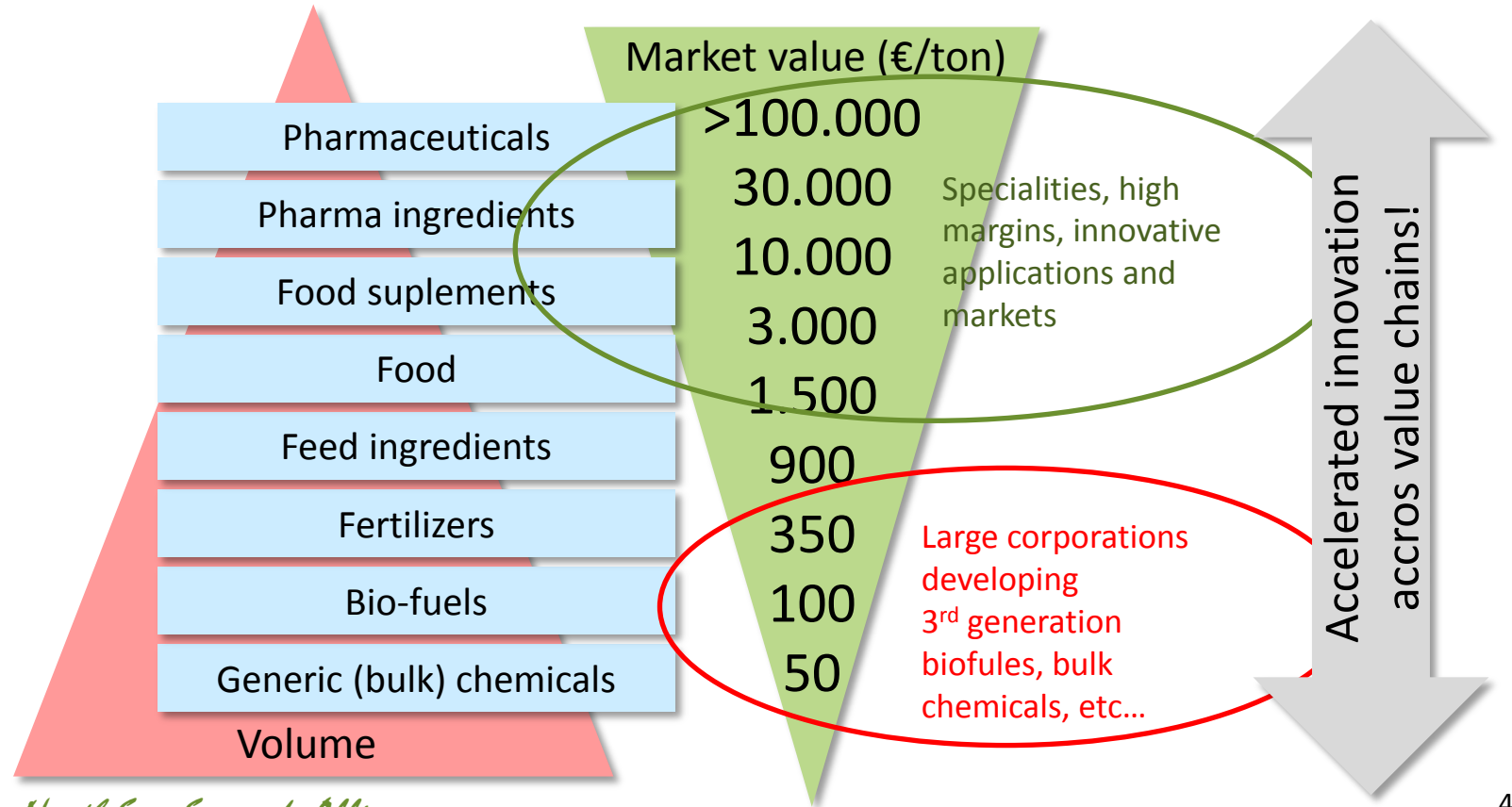


Sales value of various extraction products

Saccharina latissima, 1 ton of dry weight



Seaweed based products provide access to many innovative markets



Let's build a sustainable value chain

Bringing selected partners together



Drivers: (crosssector) innovation, integration, standardisation, cost down, industry involvement

Hatchery

Genetics
Multiplication
Seedings

Cultivation

Varieties
Crop optimisation

Harvest

Mechanisation
Automation

Storage

Quality
Pre-processing

Processing

Thermal/chemical
Extraction
Conversion
Filtration
Bio-refinery

Sales&Marketing

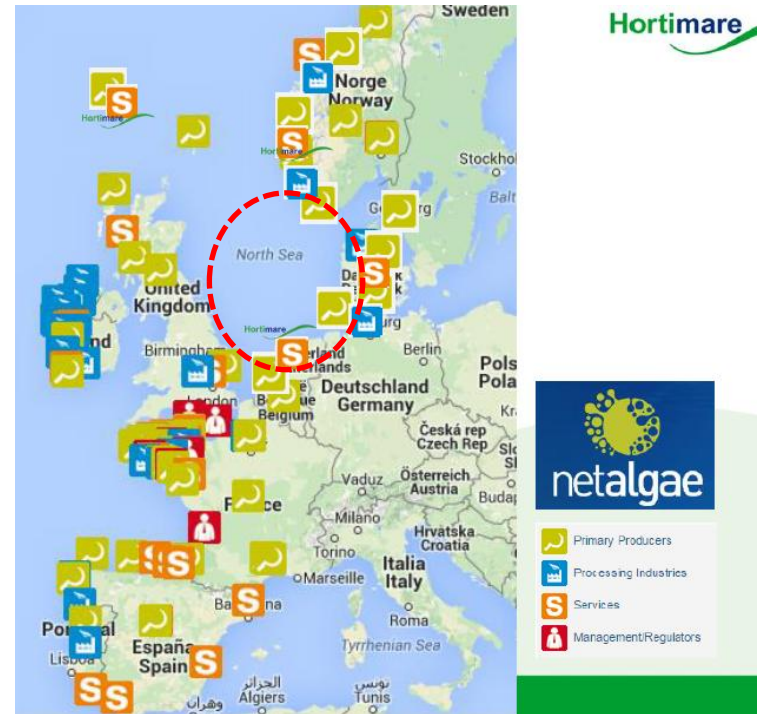
Distribution
BtC, BtB market
development
Regulatory



It's time to embrace seaweed as a business opportunity,...

We witness growing amount of demonstration EU projects!

- Let's capitalize on unique North Sea EU position in relevant sectors
- Mobilize resources to access this emerging business opportunity
 - Secure funding
 - Boost IP development
- Create leading bio-based hub, strengthening local economy and securing future jobs!





Feel free to join this
initiative!

Piotr Pukala
ECN

pukala@ecn.nl
+31610306268

Thank you for your attention!

