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MAKROALGER FÖR ETT
BIOBASERAT SAMHÄLLE



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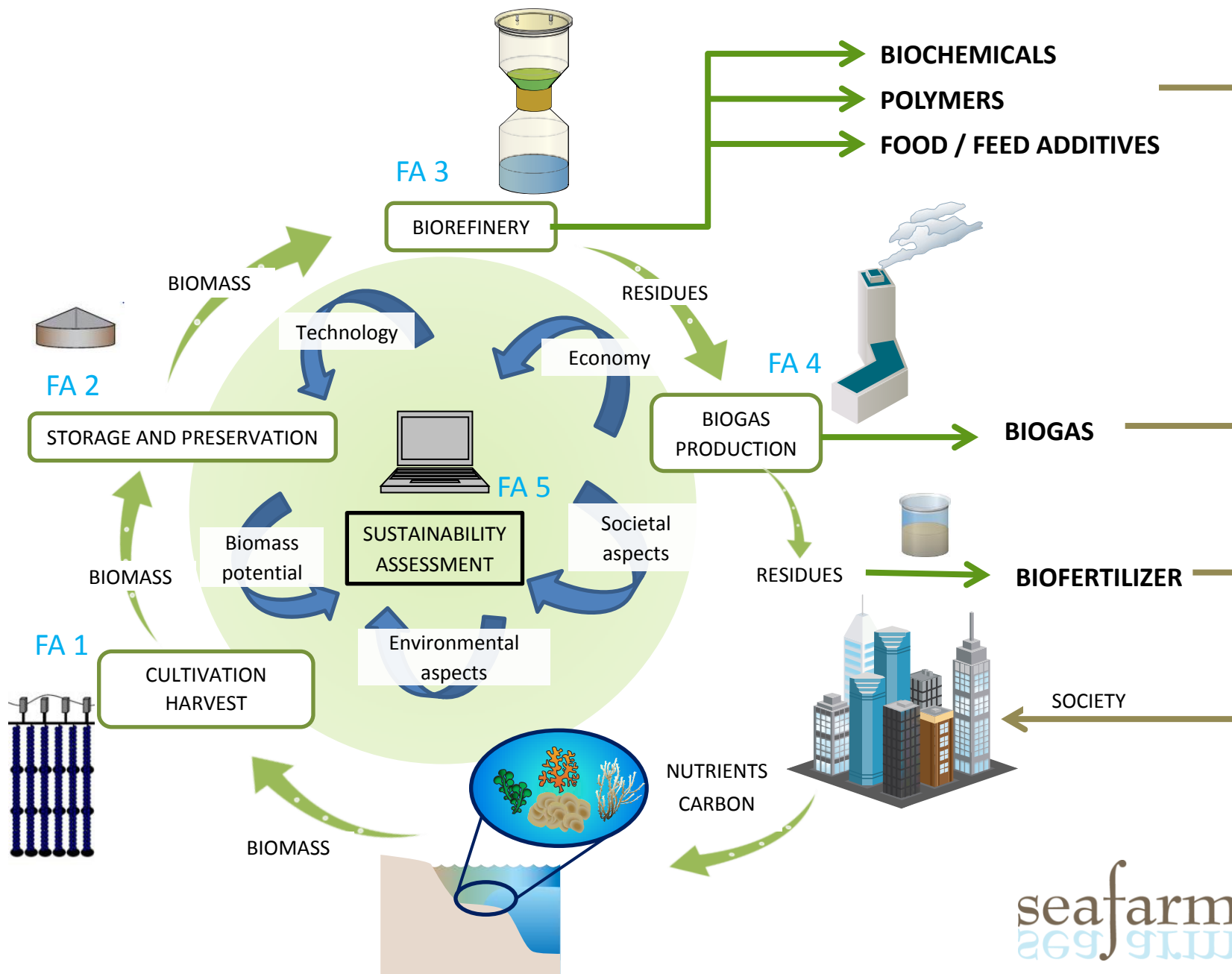
Linnéuniversitetet

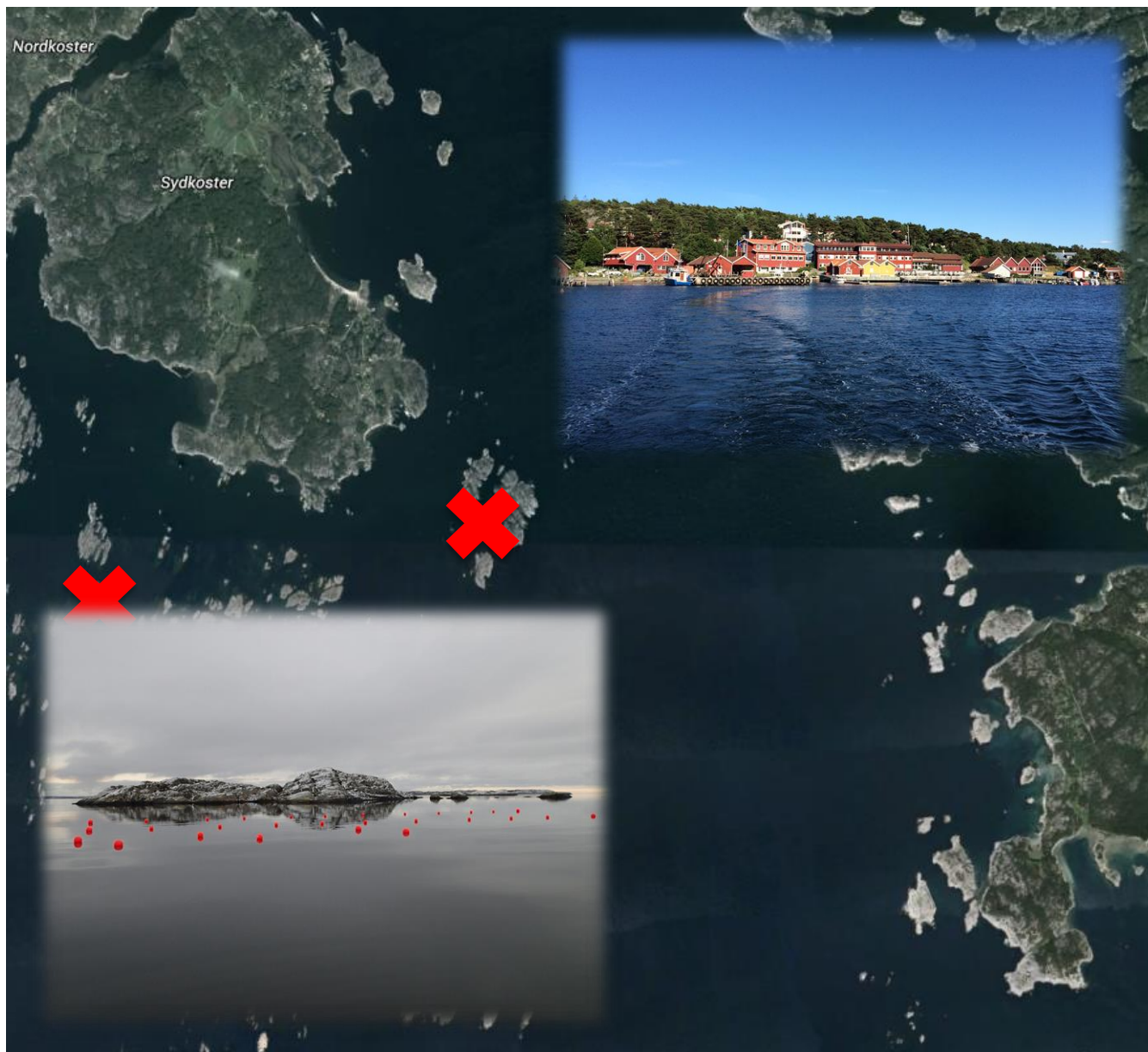


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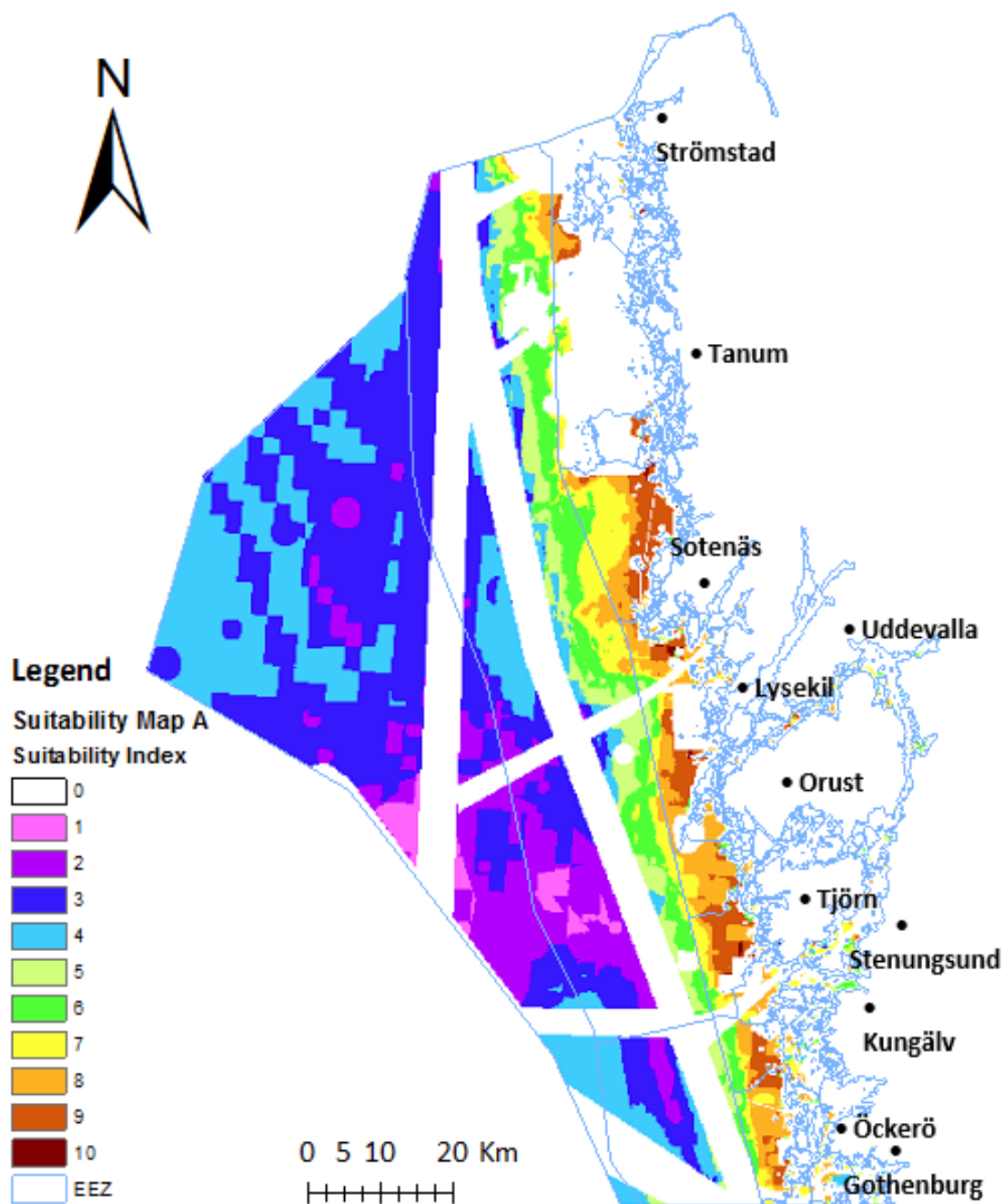
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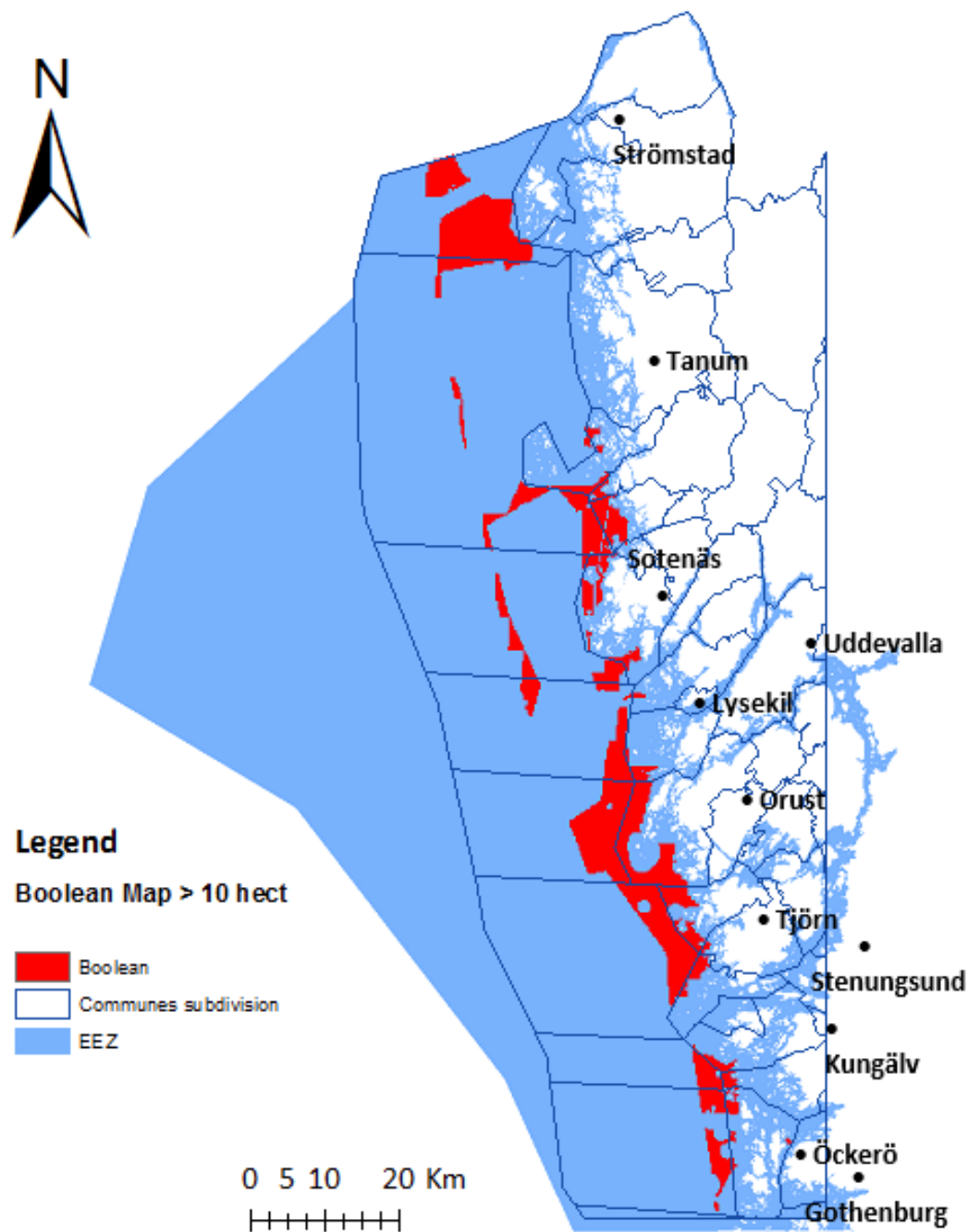




Suitability Map A



Boolean Suitability Map



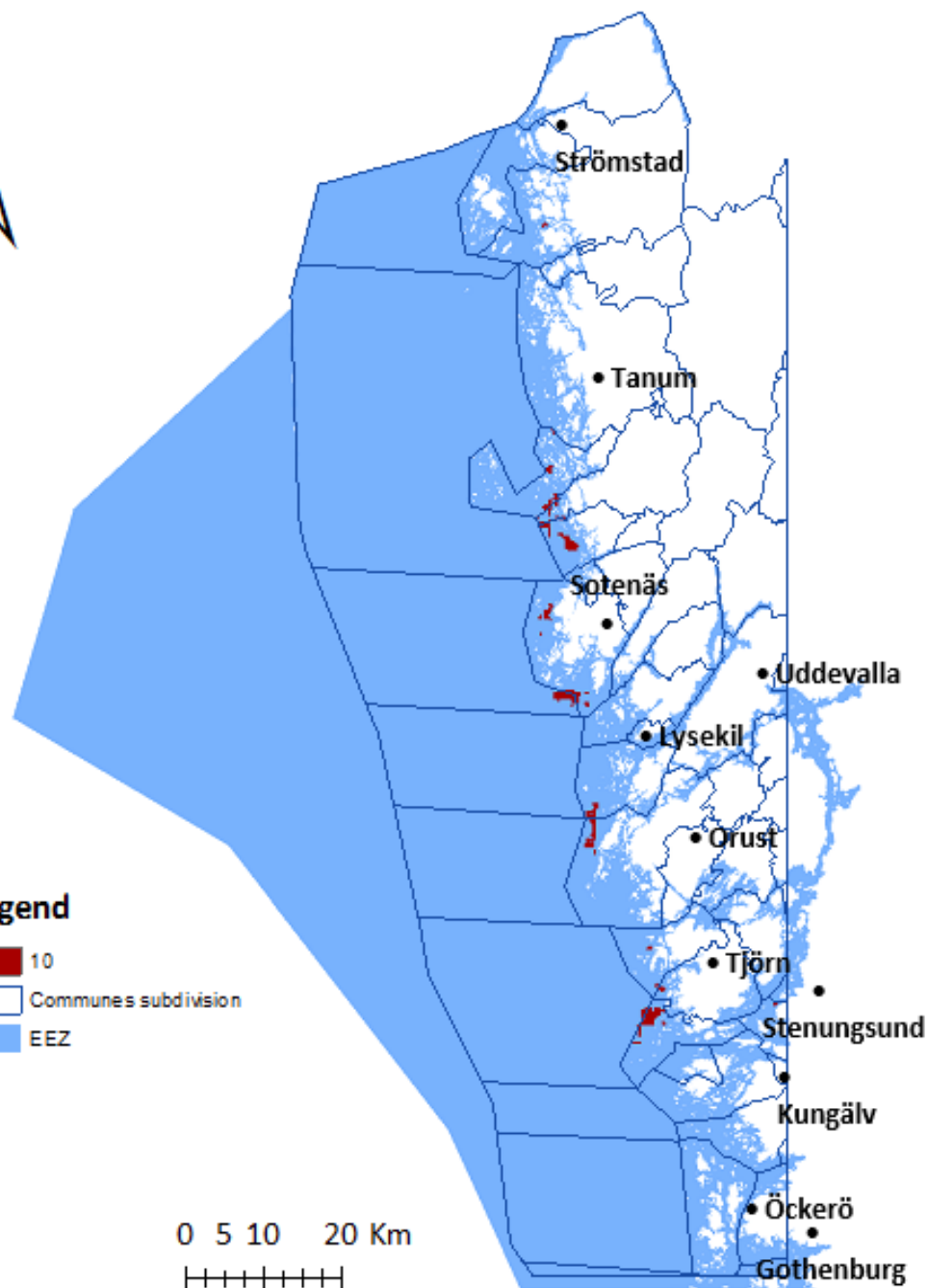
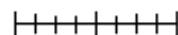
Suitability Index 10 B



Legend

- 10
- Communes subdivision
- EEZ

0 5 10 20 Km



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2009

Prannie Rhatigan's



Irish SEAWEEED KITCHEN

The comprehensive guide to healthy
everyday cooking with seaweeds

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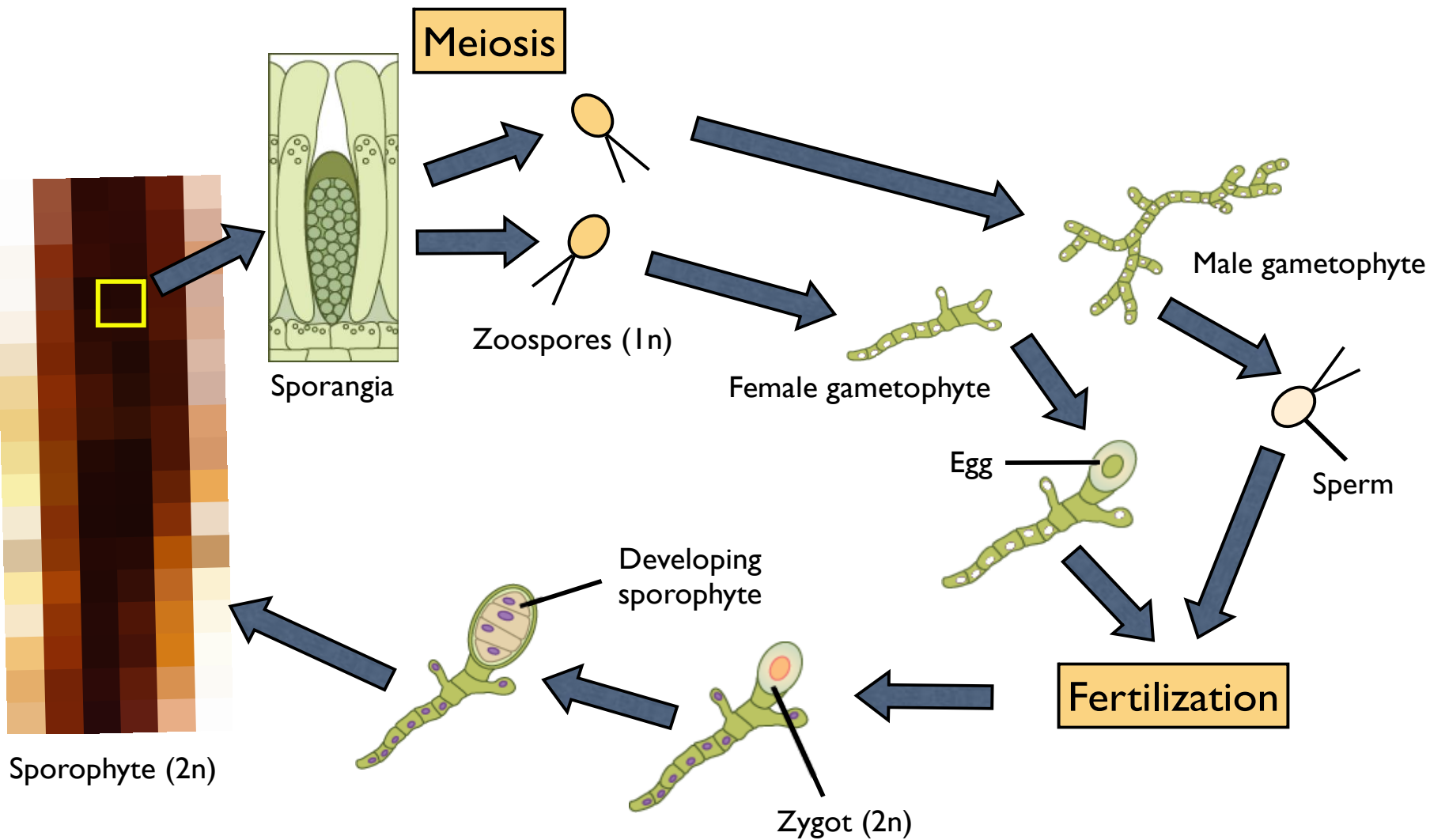
Reine Naturkosmetik
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Algenwirkstoffen aus
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www.oceanwell.de


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CONDUCTED/ONGOING EXPERIMENTS

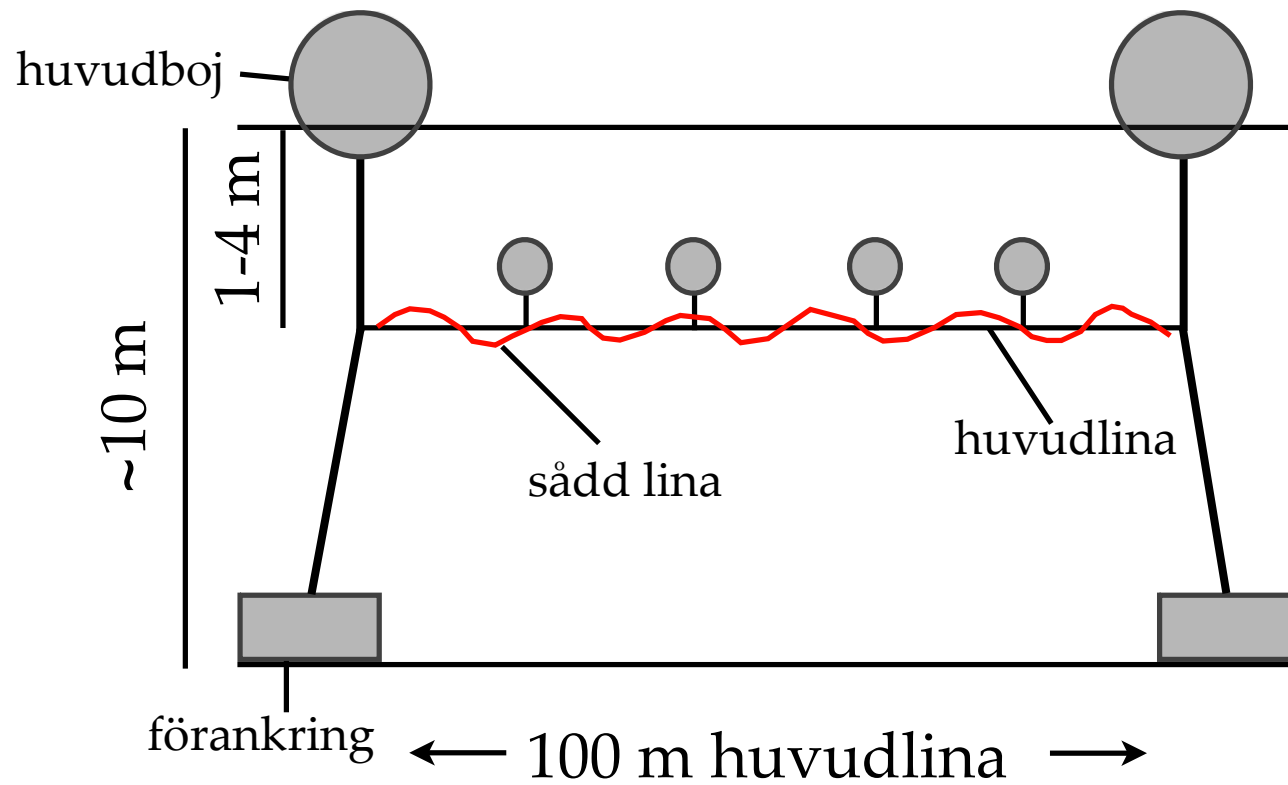
Exp 4: Effect of spore density

- 5 spore densities: 125, 250, 500, 1000, 2000 spores/ml
- indoor cultivation for 9 w
- cultivation depth 2 m, 100 m seeded line at Vedskär
- start of seabased cultivation 6/2 2015





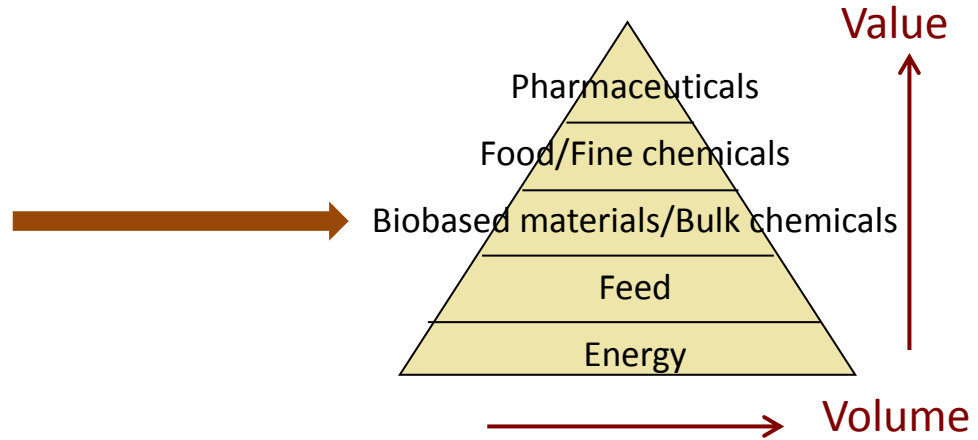




FA2 – Storage and preservation

- Challenges
 - Fast degradation of seaweed on land
 - Take time for transport and storage before processing can take place
 - Cost effective treatments
- In the project we want to
 - Study different methods for preservation regarding content and possibilities to aid biorefining

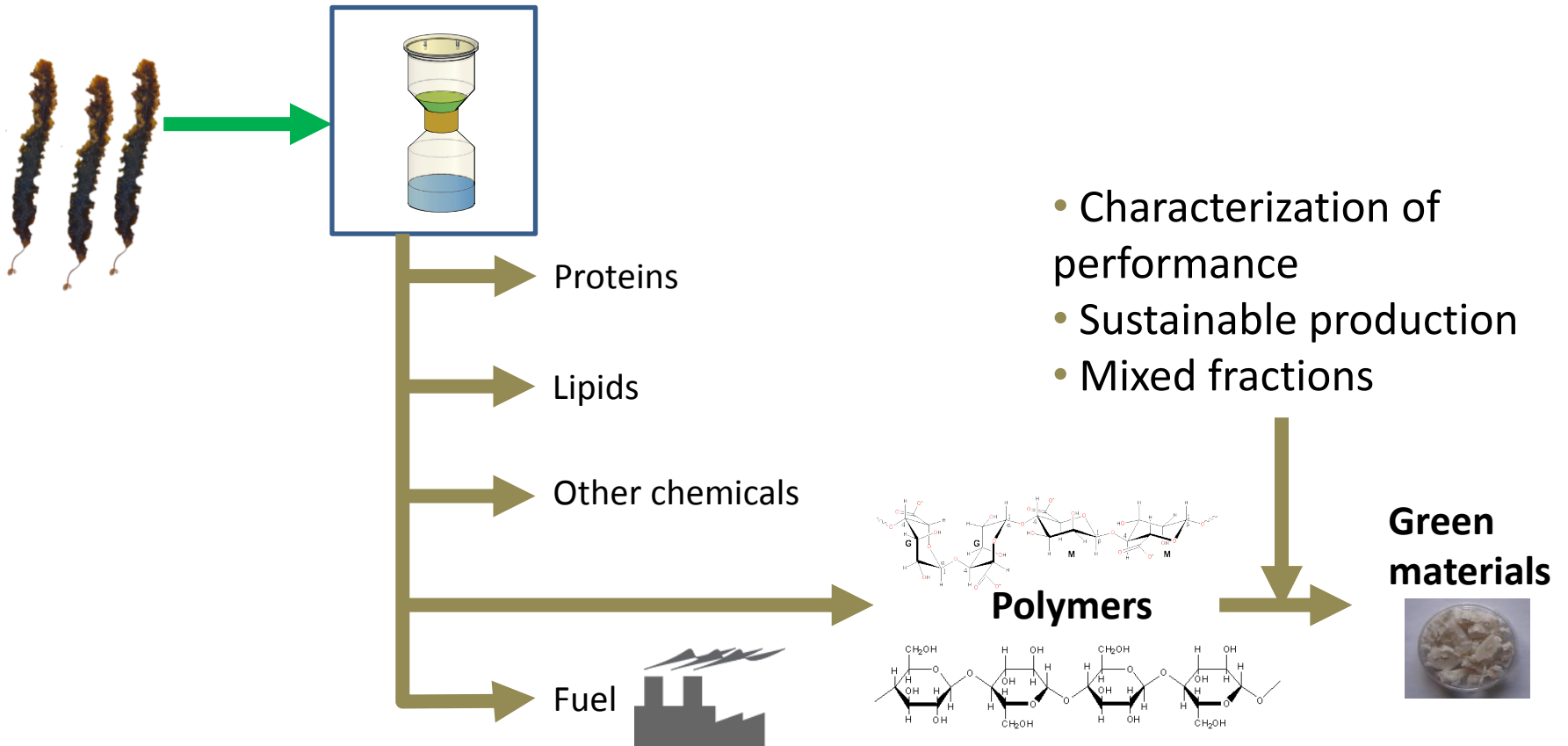




Objectives:

To design integrated biorefineries that fractionate seaweed biomass in order to produce e.g. plastics/polymers, biofuel, biochemicals and functional food/feed components.

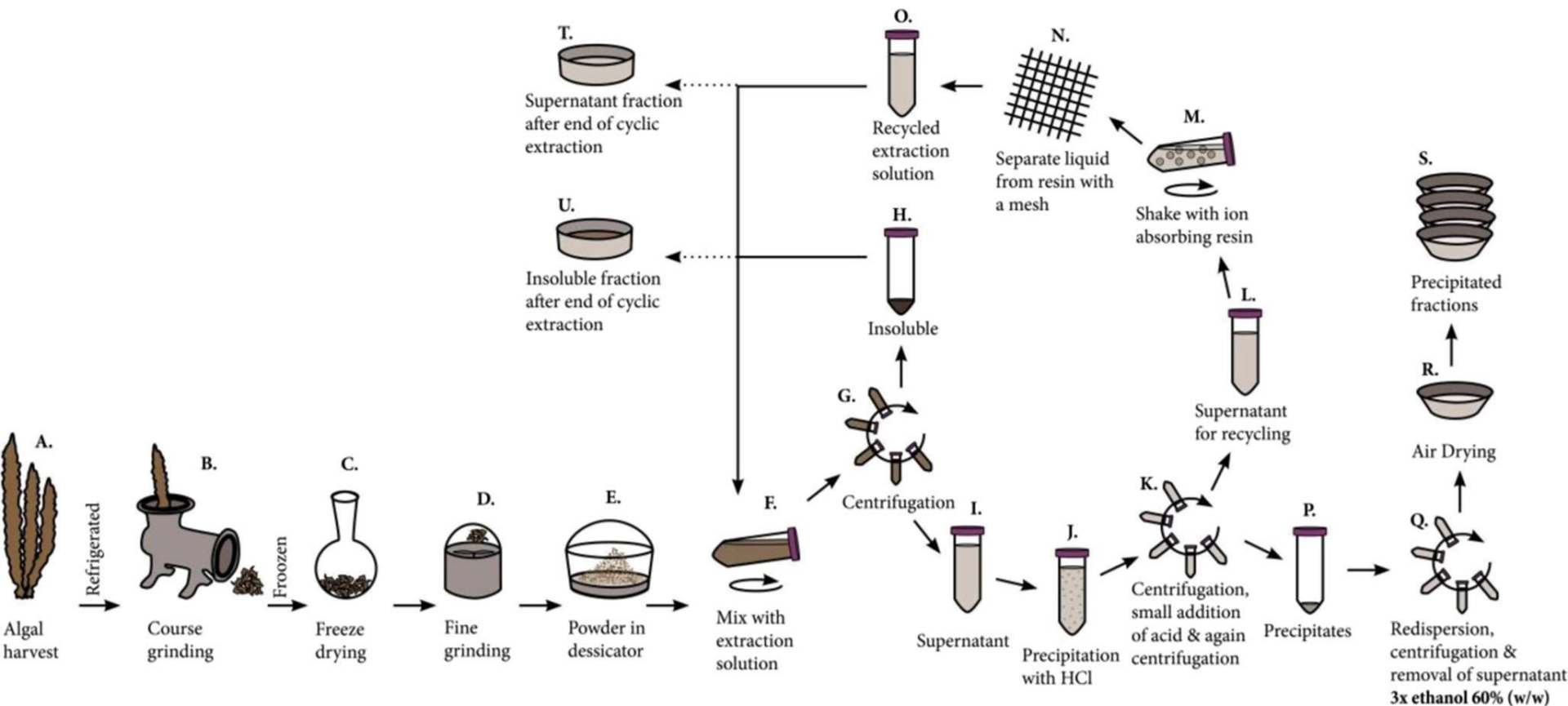
FA 3:2 Materials design



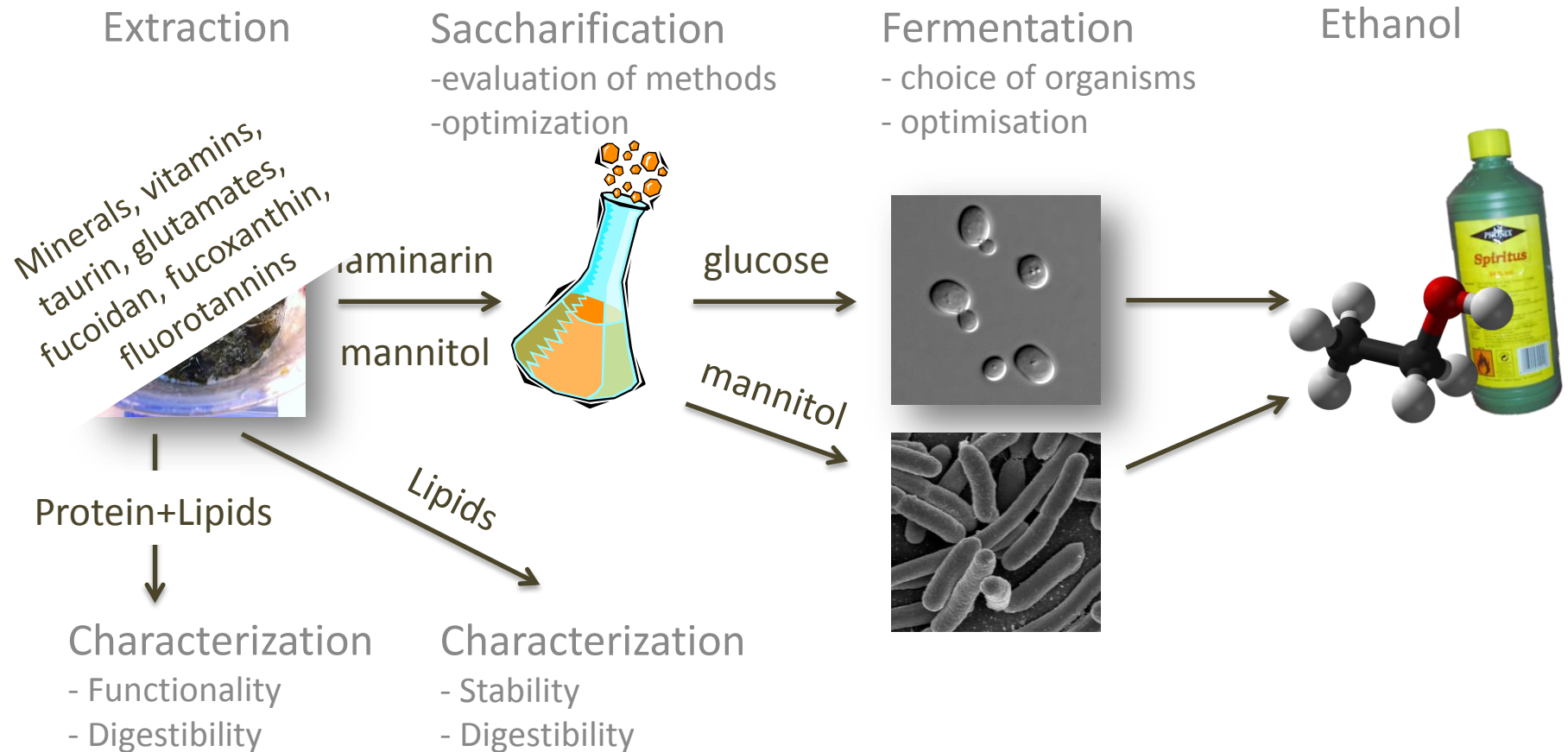
Demonstrator: A macromolecular demonstrator material derived from seaweed carbohydrate biorefining

Cyclic fractionation process for *Saccharina latissima* using aqueous chelator and ion exchange resin

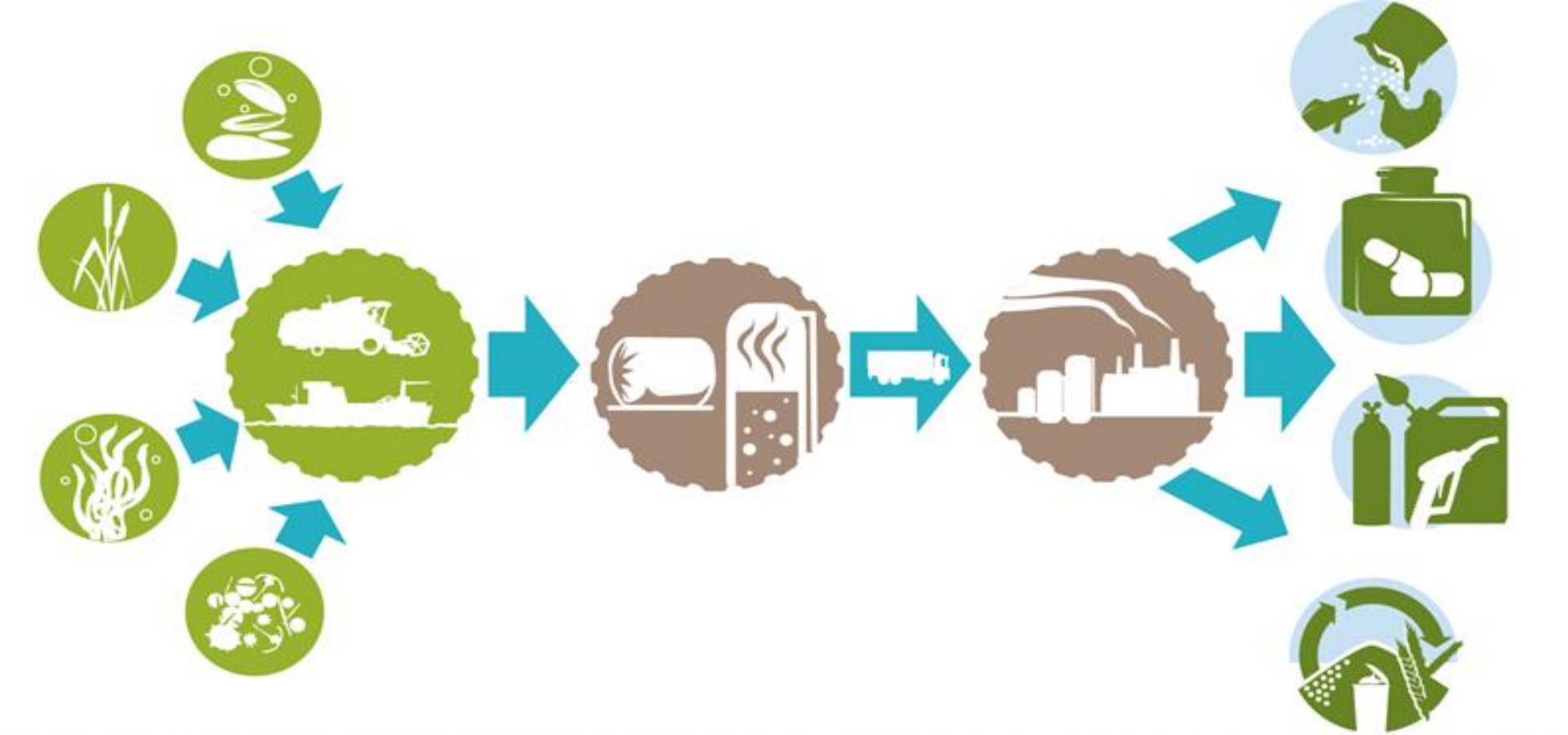
Martin Sterner & Mauricio Sodré Ribeiro & Fredrik Gröndahl & Ulrica Edlund. *J Appl Phycol* (2017) DOI 10.1007/s10811-017-1176-5



FA 3:5-3:6 Additional valuable compounds (e.g. lipids)



Demonstrator: A multifunctional food ingredient based on a smart combination of high value compounds





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Tried and tested
PhD student and animal feed !



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