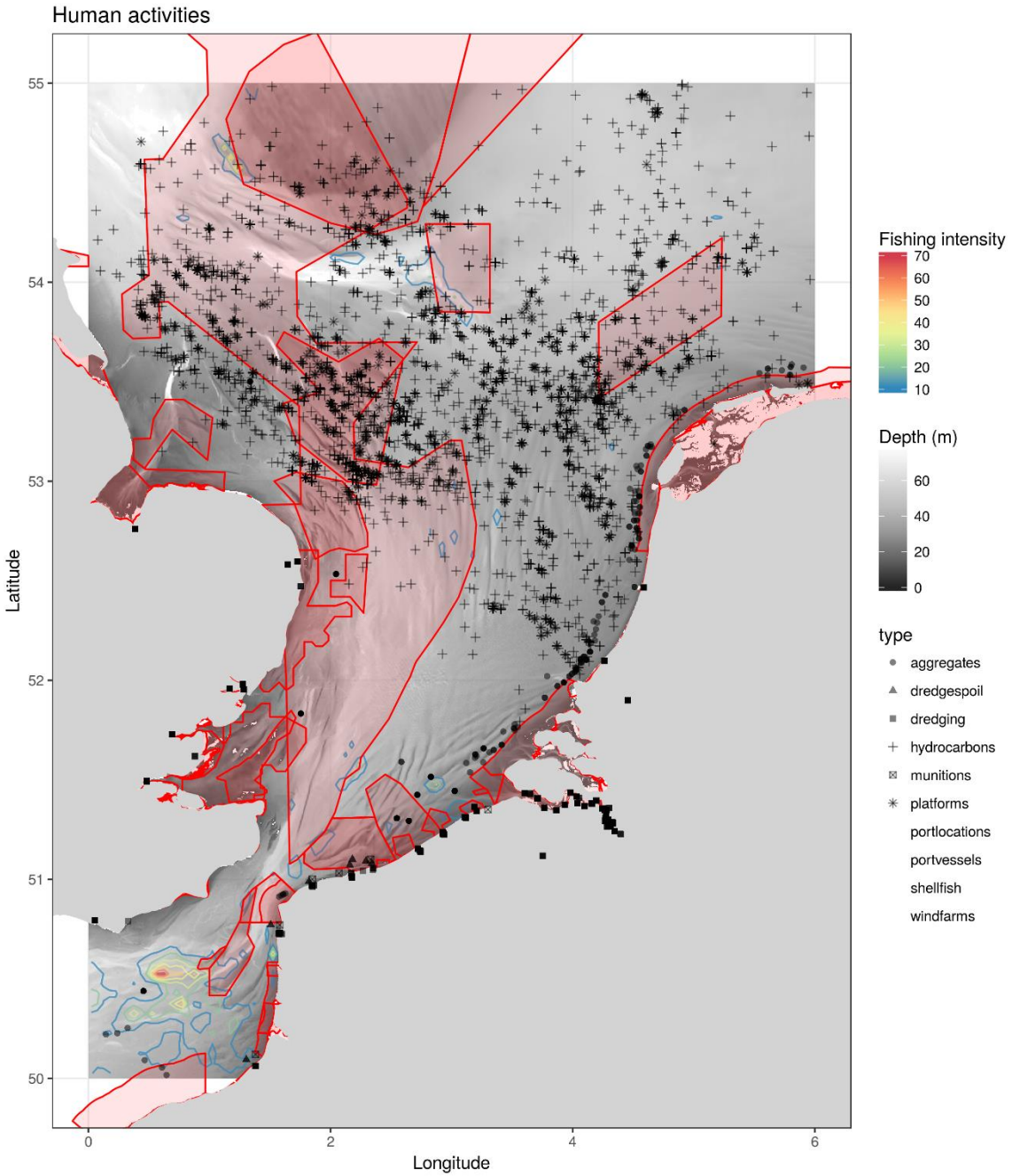
[Disclaimer: This presentation contains a concept, not a fixed product.]



[Map created based on EMODnet webservices]

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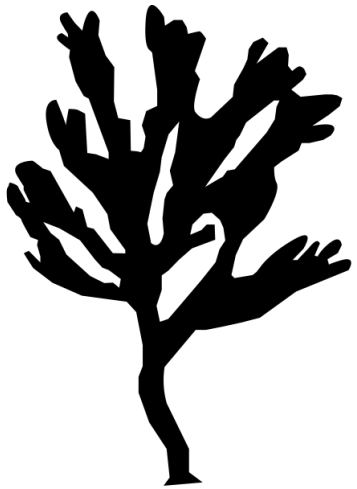
Seaweeds for:



Human consumption

Food and feed applications

Industrial applications

Fertilizers, water purifier, probiotics in aquaculture, bioremediation

Pharmaceutical and cosmetic applications

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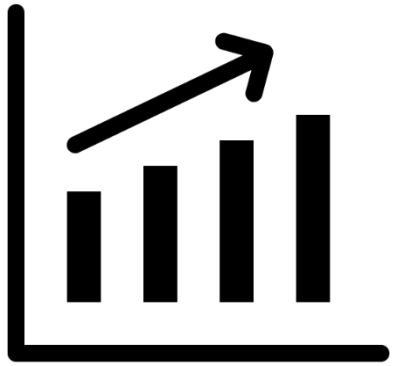
Figure sources: https://mikelivis.donboscohalle.net/opdrachten6tmm/resto2/;
https://www.i4u.com/2016/10/116418/feeding-cows-seaweed-could-curb-worldwide-greenhouse-gas-levels
https://sproutman.com/shop/accessories/freshlife-accessories/liquid-seaweed-fertilizer/
http://www.iloveseaweed.co.uk/seaweed-for-womens-health/

Global production
6 billion dollar/yr



8% per year

European market represents **less than 1 percent** of the total global production

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FAO, Yearbook of Fishery and Aquaculture Statistics, in: FAO (Ed.), Dataset Global Aquaculture Production 1950–2012, 2012 (http://www.fao.org/fishery/statistics/global-aquaculture-production/query/en).
https://www.livingoceansfoundation.org/sustainable-seaweed-farming-part-1/

How can we efficiently select suitable locations at sea to farm seaweeds?

The first tool for selecting suitable areas for seaweed farming

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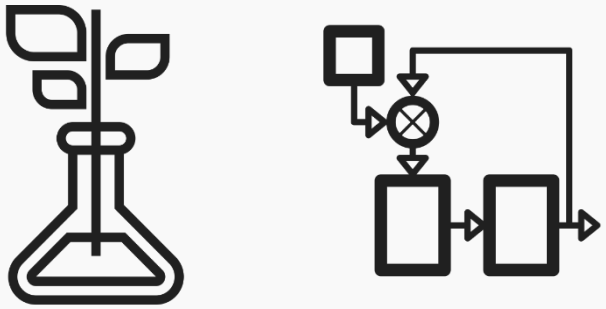
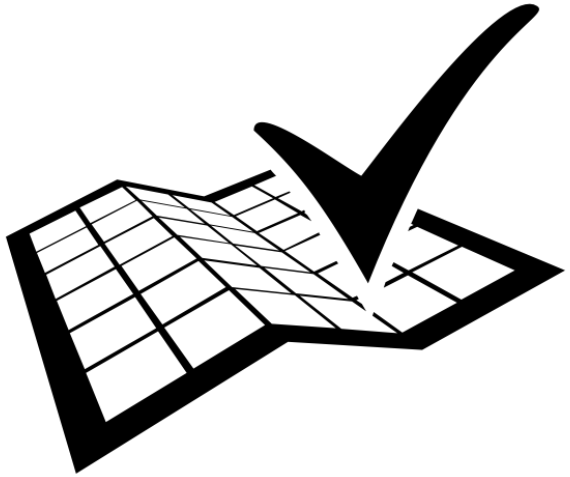
The first tool for selecting suitable areas for seaweed farming



Input 1 – Most optimal growth conditions in an ecological model

Input 2 – Marine spatial planning



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[RShinyServer.team5.tech]

Site selection

Interactive dynamic tool – parameters can be changed

Advising report

R-package publically available – open source

Modular system: backbone of the system can serve other industries

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Potentially Interested parties:

NIOZ

GHENT UNIVERSITY

SIOEN

5 TEAM5

Laurent Dubroca

IFREMER - Numerical Ecologist

Youen Vermard

IFREMER – Fisheries Biologist

Martina Gaglioti

MPA Egadi Islands – Marine expert

Gert Everaert

VLIZ – Data Science Manager

Lennert Tyberghein

VLIZ – Project Manager

THANK YOU


EMODnet
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15-17 November 2017 De Serre, Antwerp, Belgium