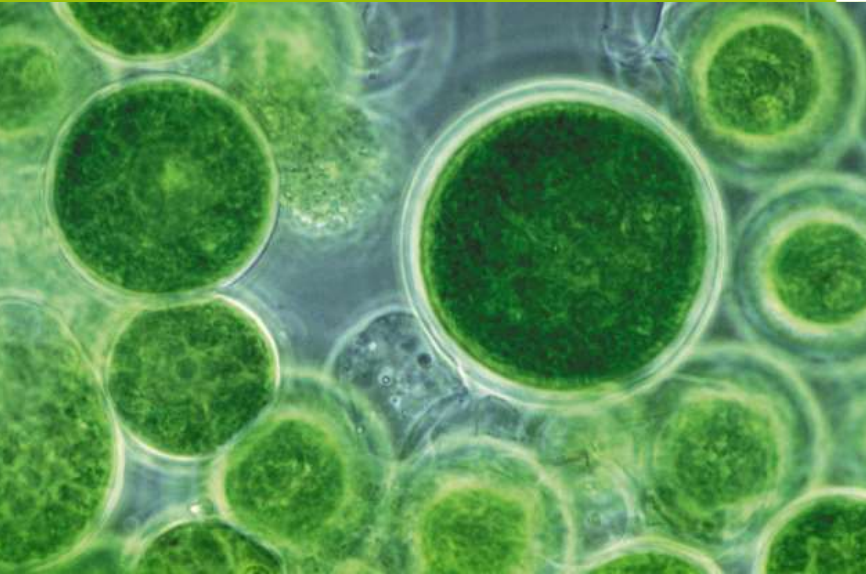




European
Commission



The Blue bioeconomy

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21 February 2018

The Blue Bioeconomy

1. What is it?

2. *Enablers*

3. *Opportunities*

1. What is it?

- *Economic activity associated with the use of renewable aquatic biological resources for **products** and **services***



1. What is it?

- **Products** of the *bioeconomy*: Novel foods, food additives, feeds, nutraceuticals, pharmaceuticals, materials and energy
- **NOT** established **foods**



1. What is it?

- *Biotechnologies are required to grow, process, and extract these products*



2. Enablers

- *Governance and planning*
- *Training and skills*
- *Data and knowledge*
- *Investment*
- *Security*



MarineBiotech



**Realising the potential of the
Outermost Regions for
sustainable blue growth**

Final Report

3. Opportunities

- *Biomass from global fisheries and aquaculture: 15% (23Mt) under-used*
- *Shellfish: 88%-90% unused – shells, shells+flesh, damaged material*
- *Crustacea: >50% unused – mainly heads*

3. Opportunities

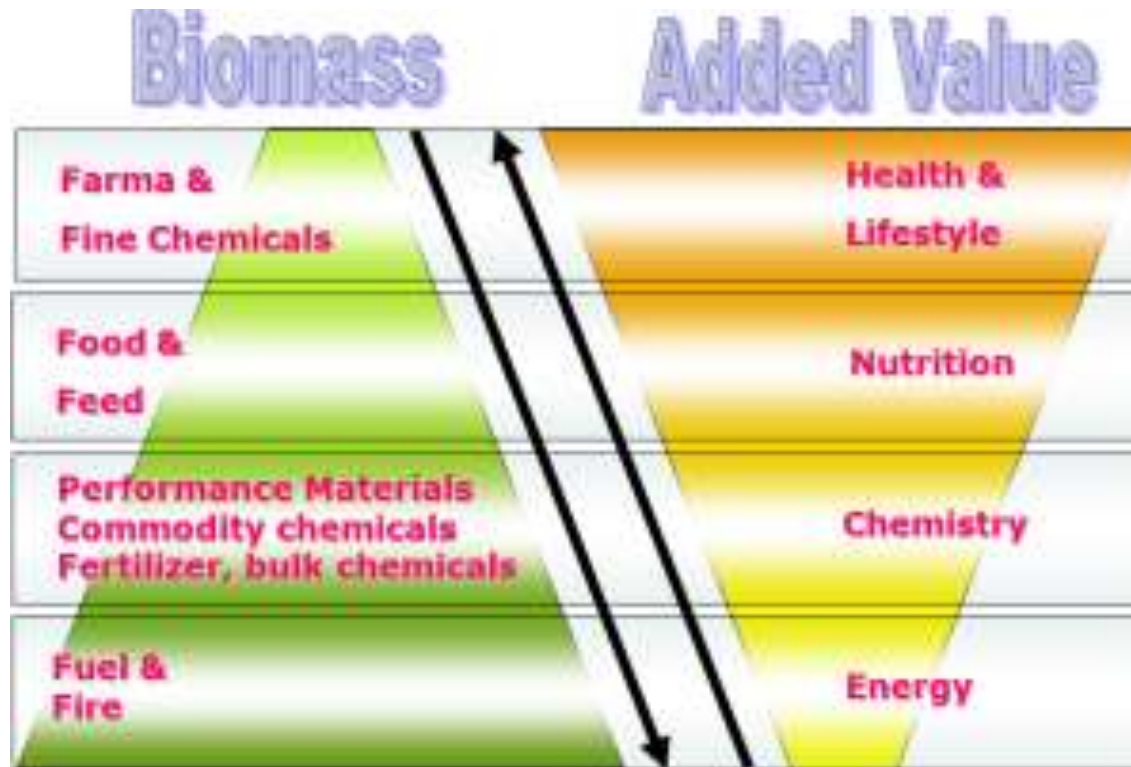
Macro and micro algae



3. Opportunities

- *High biodiversity of Caribbean sea and reefs → high potential for pharmaceuticals*
- *Sargassus seaweeds → unexploited biomass. Bioplastics, construction materials, compost, fertiliser*
- *Icelandic model → everything but the "oink", blue bioeconomy strategy*

3. Opportunities





What is the Commission Doing?

- 2012 Bioeconomy Strategy
- 2017 Review
- Research investment: H2020 and BBI, €3.7Bn
- Blue Bioeconomy Forum 2018

Thank you for your attention
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