




# ENHANCE MICROALGAE

## WORKSHOP LA ROCHELLE DEC 2018

**GAPS AND BARRIERS LIMITING THE INDUSTRIAL DEVELOPMENT OF THE MICROALGAE SECTOR IN THE EUROPEAN ATLANTIC AREA**

  
Invited **microalgae experts**  
from the Atlantic area  
countries and project  
partners



*Interreg EnhanceMicroalgae WORKSHOP - FRANCE - La Rochelle - 12 Dec 2018*





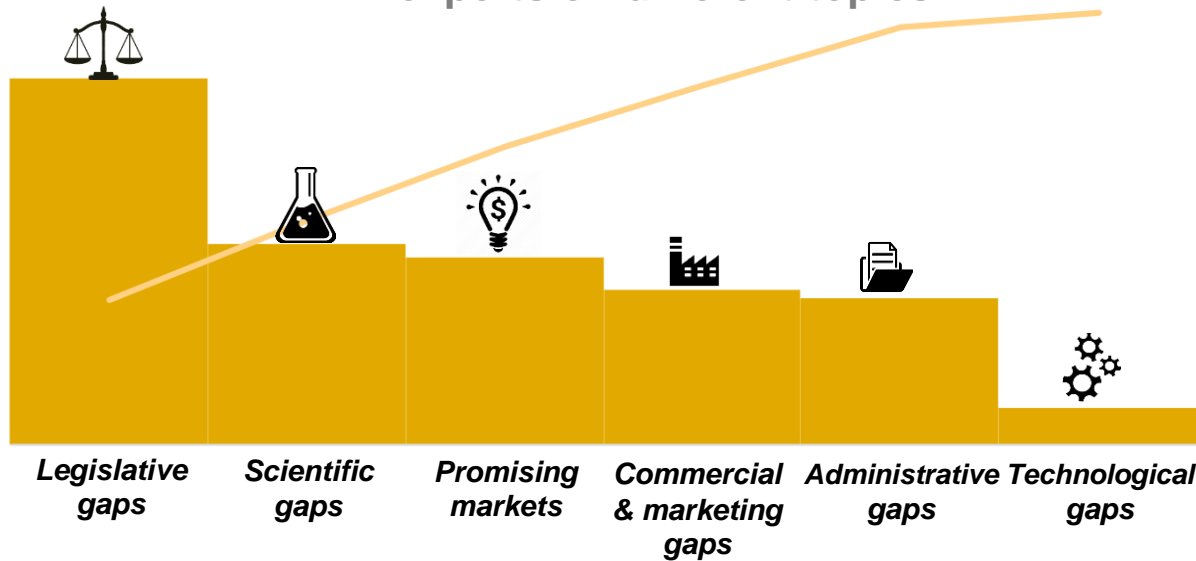
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An open discussion with experts on different topics



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### **Legislative gaps and guidelines**

*The most critical barrier*

#### **Formation**

Improve knowledge of legislative staff about microalgae

#### **Nagoya protocol**

Create ecological footprint certification

Define regulatory framework and templates for microalgal strain import and traceability

Clearly define “domestic algae” for regulatory actions

#### **Food and Feed legislation**

Produce a document template for novel food production/commercialization

Define ingredients from GMO microalgae to add to the Novel Feed list



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### Scientific gaps and guidelines

Major gap: lack of microalgae **genomic data** interpreted by microalgae experts

Improved knowledge on **risks and prevention of contaminations**, including inter- and intraspecific interactions

Enhance validation of **proofs of concept** for microalgae related **products**

Improve knowledge for **biomass composition**



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### Promising markets

**Proteins and polysaccharides** specific to microalgae (not synthesized by low-cost alternatives)

**Use of microalgae for waste bioremediation** and valorization as biofertilizers

**Antimicrobial** activities of microalgae and related products

**Vaccines and recombinant proteins** from GMO microalgae

Microalgal sources of **food proteins**



### Commercial & marketing gaps and guidelines

Decrease costs of microalgae products to **increase competitiveness**

Enhance industry **driven research**

**Maintain marketing effort** for a high quality microalgal products

Promote **marketing analysis**

Increase public **funding of R&D**





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### Administrative gaps and guidelines

Develop and strengthen **networks** between microalgae stakeholders

**Harmonize administrative procedures** across agriculture, aquaculture and biotechnology



### Technological gaps and guidelines

**Expertise in high scale production**

**Decision supporting tools**

