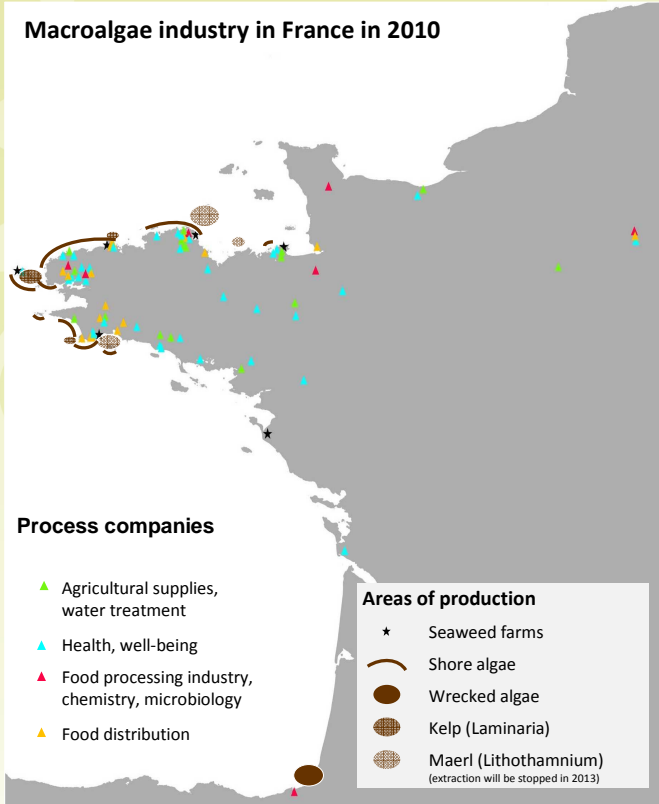


Inter-regional network to promote sustainable development in the marine algal industry

Worldwide, macroalgae production increases every year, whereas in Europe, seaweed industry is relatively stable since the 60's. In this context, the Netalgae project aims to create a European network of relevant stakeholders within the macroalgae sector. This network is expected to make progress towards developing industrial, commercial and scientific links.

This poster synthesizes French results of the first part of the Netalgae project which aim was the execution of a general baseline study of all national algae industries across the project area.



The French seaweed industry is characterized by:

• Raw materials coming from the harvesting of wild resources

Almost 60 000 tons of seaweeds is produced annually (except *Lithothamnium* and *Gelidium*). Only 50 tons comes from seaweed aquaculture; the rest comes from wild seaweed (offshore, shore and beached seaweeds).

• Main producing area in Brittany

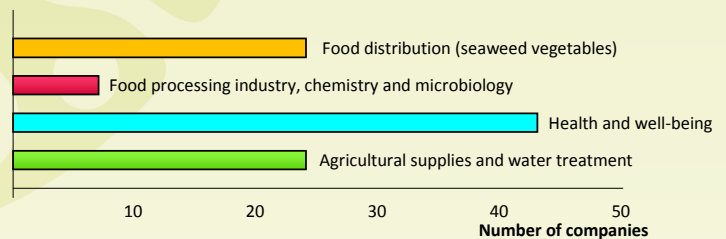
Most French seaweed production comes from Brittany, and approximately 85% of the seaweed processing plants are based in this area. Only *Gelidium*, which is gathered in the Basque country, and seaweeds cultivated on a few seaweed farms come from other areas.

• Diversified markets

- Food distribution (seaweed vegetables and additives)
- Agricultural supplies (phytosanitary products, seaweed fertilizer and feed)
- Water treatment (filtering and solutions)
- Cosmetics, health and well-being
- Chemistry and microbiology (culture media)

Markets

in 2010, Netalgae results



Uses (French production and imports)

CEVA (2005)



Organization of macroalgae industry, from seaweeds to uses

Kinds of algae	Seabed algae		Wrecked algae	Shore algae			Cultivated algae	
	DDTM	DDTM (1) CRPMEM (2)		DDTM - CRPMEM				
Authority and management	DDTM	DDTM (1) CRPMEM (2)	DDTM - CRPMEM					
Management systems	Concession	Licence	Harvest authorization			Concession		
Producers	Sand extractors	Offshore harvesters	Shore gatherers			Algae growers		
Algae species	<i>Lithothamnium</i> (extraction will be stopped in 2013) ****	<i>Laminaria digitata</i> <i>Laminaria hyperborea</i> ***	<i>Gelidium</i> <i>G. sesquipedale</i> Not available	<i>Chondrus crispus</i> <i>Mastocarpus stellatus</i> *	<i>Fucus ssp</i> <i>Ascophyllum nodosum</i> **	<i>Palmaria palmata</i> , <i>Porphyra umbilicalis</i> , <i>Undaria pinnatifida</i> ... *		
Processing	Drying and grinding	Hydrocolloid extraction			Drying and grinding	Maceration and extraction	Conditioning and packaging	
Products	Filters and treatments €€	Meals €€€	Alginates €€€€	Agar-agar €€	Carrageenans €€€€	Meals and fertilizers €€€	Contract products €€€	Foodstuffs €

KEY : uses

- Agricultural supplies and water treatment
- Food processing industry, chemistry and microbiology
- Health and well-being
- Food (seaweed vegetables)

Degree of importance in harvested tonnage (wet tons):

**** : ≥ 100 000; *** : 50 000; ** : 5 000; * : ≤ 1000

Degree of importance in produced turnover (in Euros):

€€€€ : very important; €€€ : important; €€ : medium; € : weak

(1) Direction Départementale des Territoires et de la Mer

(2) Comité Régional des Pêches Maritimes et des Elevages Marins

French partners: AGRO CAMPUS OUEST, smel, UBO

Other partners: Arctos Marine Laboratory, cris, Bioforsk, indigorock, Institut National de la Mer, ikasLAN, Tknika

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