

## PROJECT OBJECTIVES

The overall objective of the **GENIALG** project is to boost the European Blue Economy by designing high-yielding seaweed cultivation systems. **GENIALG** aims to increase the production and sustainable exploitation of two high biomass yielding species of European seaweed: the brown alga *Saccharina latissima* (sugar kelp) and the green alga *Ulva rigida* (sea lettuce).

## WHAT WILL GENIALG DO?

**GENIALG** is the first European industry-driven project that will design high-yielding seaweed cultivation systems.

**GENIALG** will:

- Demonstrate the technical and economic feasibility of producing large and sustainable volumes of high quality seaweed biomass. It will do so by combining available knowledge in seaweed biotechnology with reliable eco-friendly tools and methods.
- Set up two pilot pre-industrial seaweed biorefinery plants to capitalise on the commercial potential of nutrient rich seaweed compounds for products such as cosmetics, pharmaceuticals, food and feed ingredients
- Assess ecological impacts and environmental benefits of large scale seaweed cultivation, to address social acceptability of large scale integrated seaweed biorefineries.

## AT A GLANCE

**PROJECT TITLE:** GENetic diversity exploitation for innovative macro-ALGal biorefinery (GENIALG)

**TOTAL BUDGET:** €12,224,237.50

**DURATION:** January 2017 – June 2021 (54 months)

**COORDINATOR:** Centre National de la Recherche Scientifique (CNRS), France

**CONSORTIUM:** 19 partners from six countries



## PROJECT PARTNERS

### FRANCE

- 1 ALGAIA
- 2 Amadéite SAS
- 3 Centre National de la Recherche Scientifique (CNRS)
- 4 C-Weed Aquaculture SARL
- 5 Lessonia

### IRELAND

- 6 AquaTT UETP CLG
- 7 National University of Ireland, Galway

### NORWAY

- 8 Seaweed Energy Solutions AS
- 9 SINTEF Ocean

### PORTUGAL

- 10 ALGAplus Produção e Comercialização de Algas e Seus Derivados Lda

- 11 Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR)

- 12 Instituto de Ciência e Inovação em Engenharia Mecânica e Engenharia Industrial (INEGI)

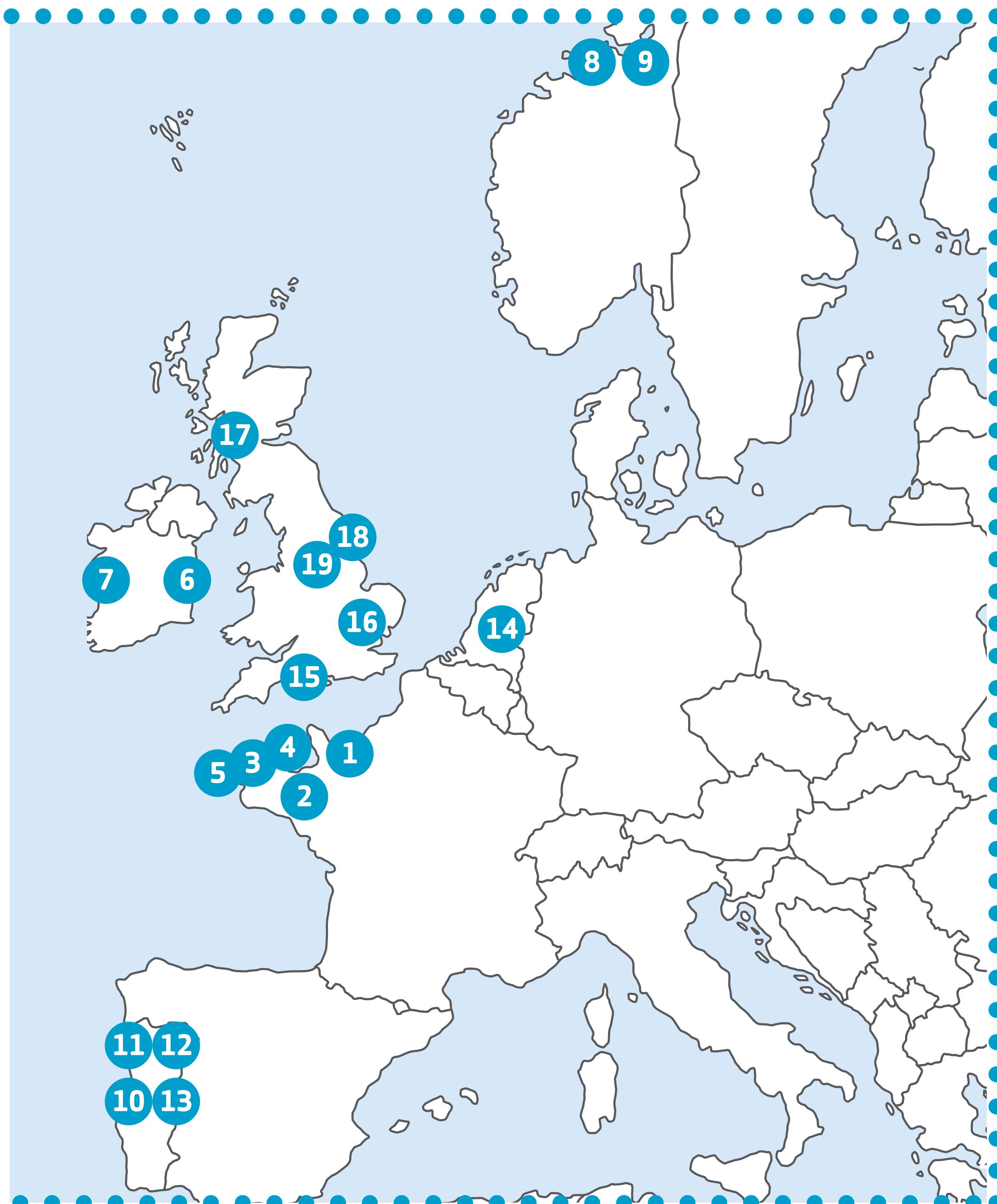
- 13 Universidade de Aveiro

### THE NETHERLANDS

- 14 Stichting Wageningen Research

### UNITED KINGDOM

- 15 Biome Technologies plc
- 16 IOTA Pharmaceuticals Ltd
- 17 The Scottish Association for Marine Science (SAMS)
- 18 Biorenewables Development Centre Ltd
- 19 University of York



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