

Sustainable Blue **Economy Partnership**

Culture of a wide range of low trophic species to boost sustainable production of Blue Food and reduce environmental footprint.

Spanish research center - multitrophic aquaculture









THE BLUEBOOST CONSORTIUM







BLUEBOOST Objectives

- 1) Demonstrate to aquaculture companies how they can reduce their environmental footprint, improve profitability and product diversity;
- 2) Demonstrate to policymakers the pathway to encourage aquaculture companies to incorporate the culture of low trophic species advancing industry's standard operating procedures towards carbon neutrality;
- 3) Provide new products for consumers that have known environmentally friendly credentials incorporating fact-based informed decisions into purchase habits and, long-term, promote higher investment in companies with good environmental records.









BLUEBOOST COMMUNICATION

A. NOTPLA Ltd 🚟 D. H2O SciTech (2. S2AQUA) FAO (1. IRTA) C. MASAF ■ E. AMA G. EPAGRI 📀 B. API **BLUEBOOST** 9. PVL F. UNIVALI 📀 H. FEPROMODEL

BLUEBOOST IMPACT - Theory of Change

Problem analysis

Problem

Dominance of high level trophic species cultured in mono-systems that require resources that are limited. Aquaculture sites expansion limited. Consumer concerns on environmental impacts.

Assumptions

Problem 1: Little incentive to change. Government does not encourage change.

Problem 2: Little knowledge on both culture of low trophic species and benefits for environmental footprint reduce incentive to change for both business and policy-makers.

Problem 3: Project needed to provide knowledge on both culture of low trophic species and their environmental footprint.

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Causes

Linear input – output production system Wastes not utilised Government regulation limits development / multi use of aquaculture facilities Little information on low trophic species LCA

Assumptions Problem 2_

Assumptions Problem 1

Knowledge-related causes

Business and government do not change due to limited knowledge on culture and LCA of low trophic species cultured to compliment higher trophic species and use waste streams for circular economy.

Assumptions Problem 3

Impact Pathway

Societal Impact

Low trophic species production balances higher trophic species to reduce environmental impact. Increased healthy seafood products, increased and diversified EU aquaculture production.

Assumptions Impact 3

(Intermediate) Outcome

Low trophic species to improve business LCA / sustainability for investors / customers Increase in low trophic species in markets Increased production from culture sites with circular economy aspects

Assumptions Impact 2

Output (Conclusions/insights)

Knowledge and demonstration of the culture of low trophic species Description of LCA and demonstration of reduced environmental impact Dissemination to stakeholders

Assumptions Impact 1

Impact 1: Project successful, all risks to project overcome.

Assumptions

Impact 3: Investors

business with lower

to buy lower trophic

species, EU imports

Impact 2: Businesses

aim to demonstrably

footprint assessing

potential impacts of

trophic species by LCA

incorporate low trophic

species to compliment

high trophic species.

integration of low-

approach. Policy-

makers create

conditions to

reduce environmental

will reduce.

environmental footprint.

Consumers will prefer

provide money to

Demonstrate low trophic species production Describe LCA of low trophic species and production systems





