

ESPON VIRTUAL CONFERENCE

"Blue Growth: From Marine & Maritime Services towards new drivers for economic & territorial change"

24 June 2021

SMART FISHERIES EVALUATION TOOL IN THE MEDITERRANEAN: BLUEFASMA PROJECT



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UNIVERSITY OF PATRAS



Project co-financed by the European
Regional Development Fund

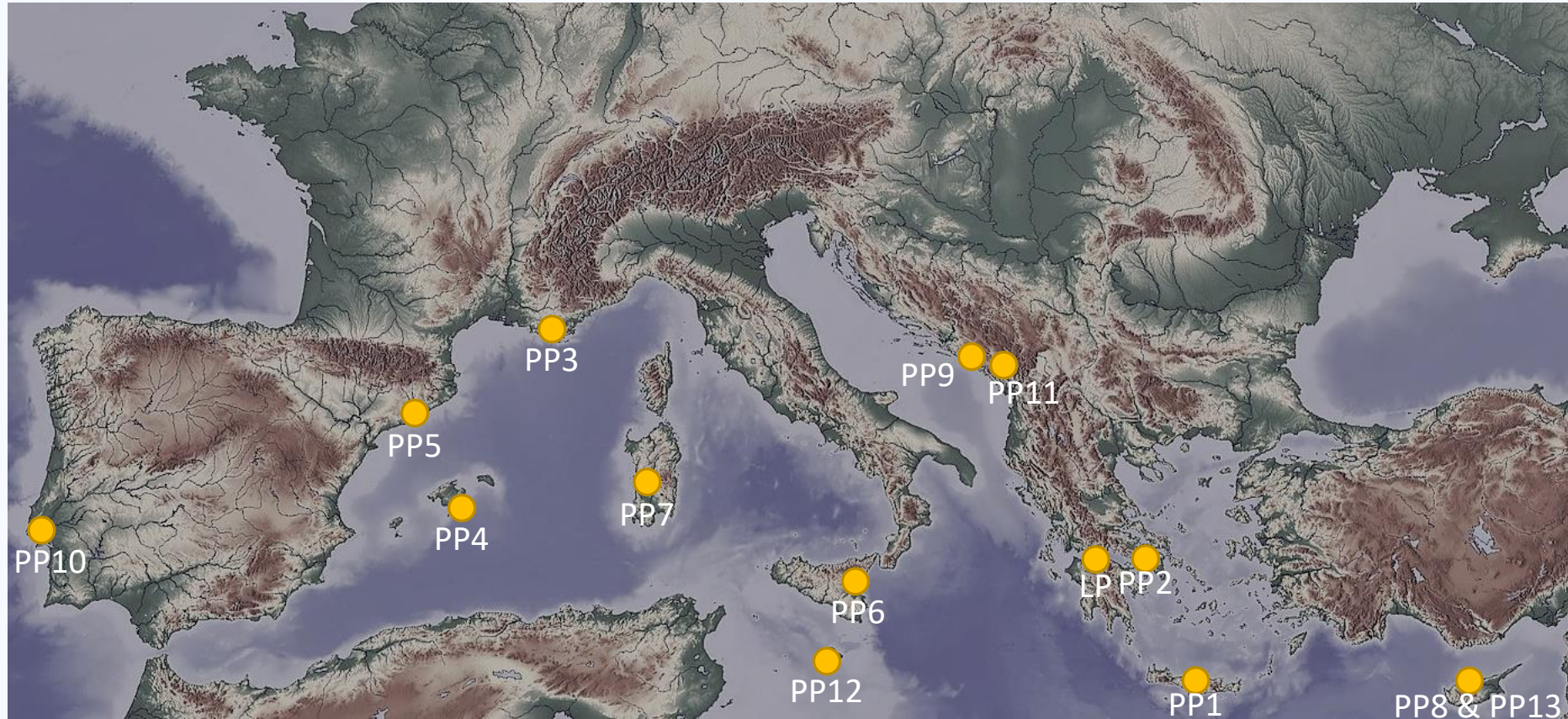


Project Id

Background: Smart Cities & Communities in Europe, North & South America, Africa, Asia

Title: *“Empowering innovation capacity of SMEs, maritime clusters and networks in MED islands and coastal areas to support blue Circular Economy (CE) growth in fishing/aquaculture”*

Countries and territories



3 Main Goals

#1

Enhance innovation capacity of SMEs and maritime clusters and networks *in smart cities & communities* by

- 1) transnational cooperation of services
- 2) recording their level of *circularity*
- 3) supporting management, financing & transferability

3 Main Goals

#2

Improve **transnational cooperation** and **deep networking** amongst Partners, SMEs, maritime clusters & networks *in smart cities & communities* to facilitate the **transfer of replicable results**

#3

Capitalise on these results in order to **shift management in fishing/aquaculture towards innovation in Circular Economy and Economic Change**

Ecosystem & Stakeholders for Economic Change

providers of hardware,
on-boat-software developers,
connectivity providers,
infrastructure providers,
service and content providers,
original equipment manufacturers,
the end user

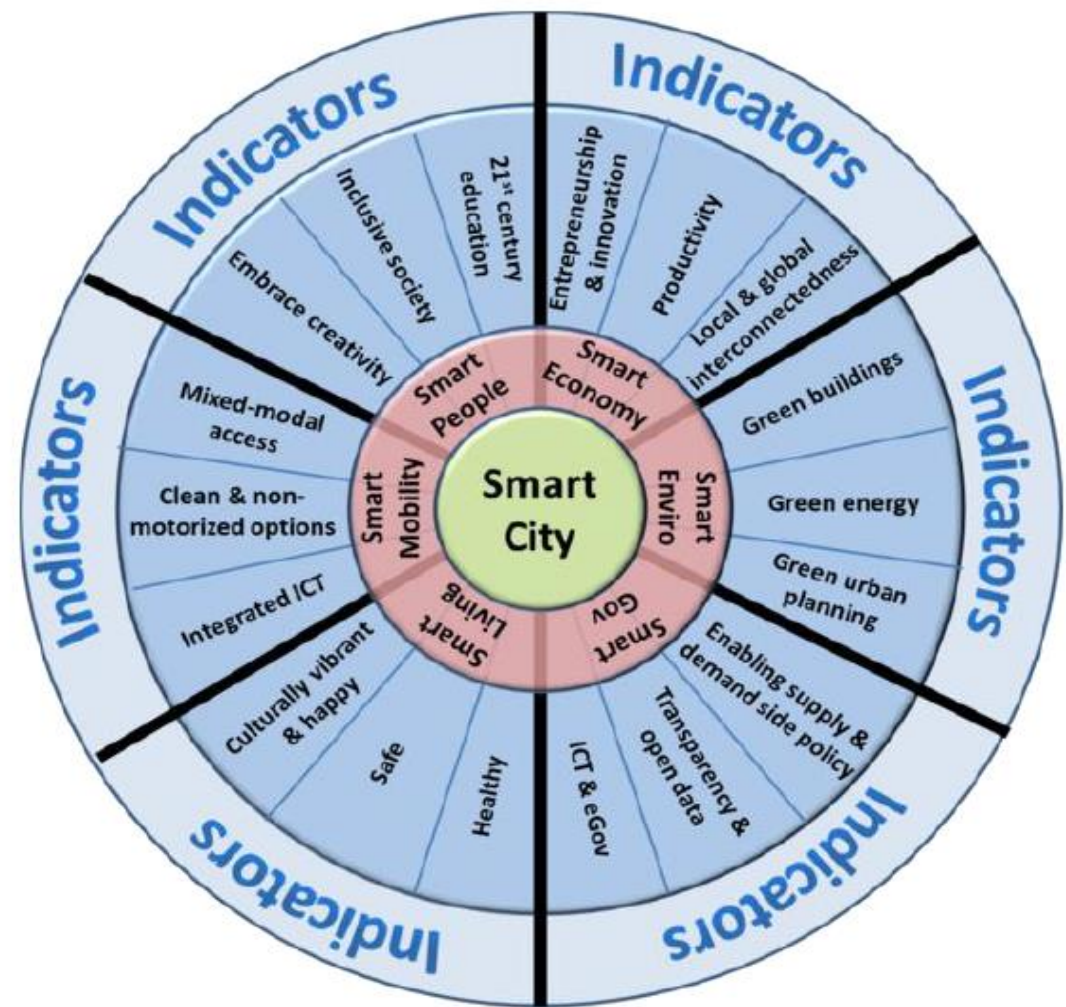
new technology areas such as
the cloud,
big data analytics,
cybersecurity,
human machine interface,
advance fi. & aq. systems

Smart cities & communities: The basics

Develop interoperable
readiness & willingness
Protocols & Key Performance
Indicators (KPIs) in Reliability,
Resilience, Circularity

6 smart categories:

- (i) Environment
- (ii) Mobility
- (iii) Government
- (iv) Economy
- (v) People
- (vi) Living.

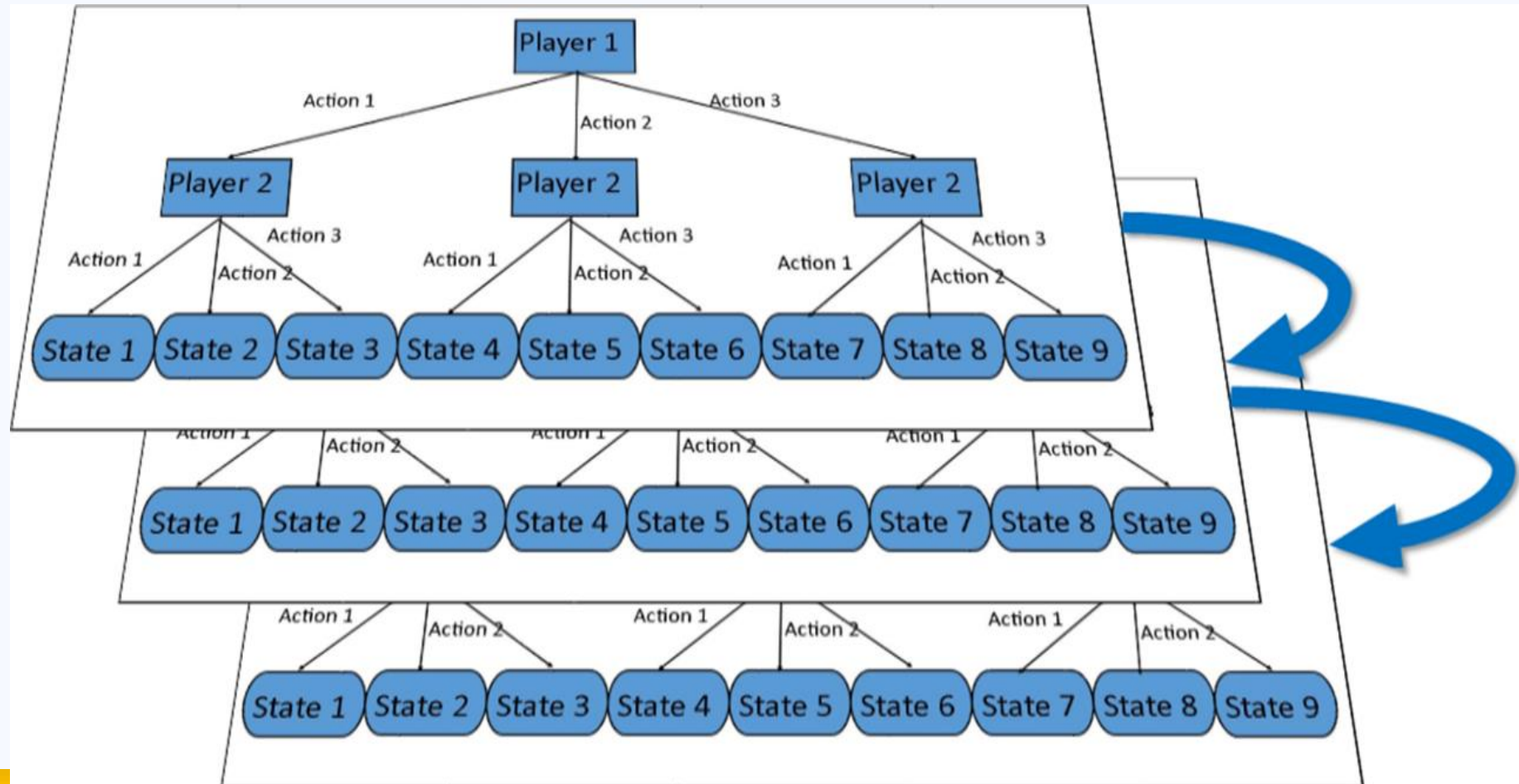


Smart cities & communities basic components
Source: Cohen B. (2012). "What Exactly is a Smart City?"
Fast Company Co.

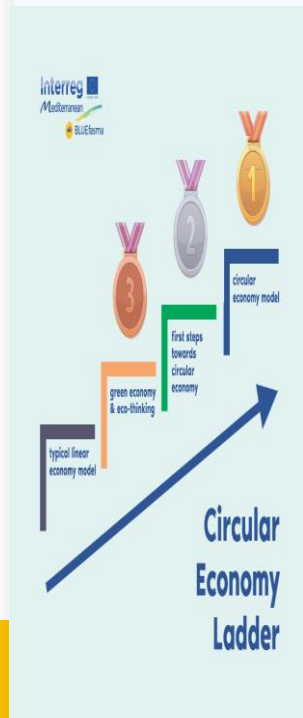
CYBER-PHYSICAL SYSTEMS (CPS)

- CPSs are controlled by algorithms, integrated with the internet and its users.
- CPSs physical and sw components are deeply interconnected, each operating on different spatial and temporal scales, interacting in ways that change with context.
- Information from CPSs works with AI to **drive networked management** to perform more efficiently, collaboratively and resiliently.

Knowledge Base & Self-Assessment Tool: Multi-level multi-criteria framework for cooperation



8 Project Concrete Results from Cooperation



1. **BLUEfasma Circular Economy consolidated knowledge base**; systematizing best practices, business tools, solutions in fishing/aquaculture
2. **BLUEfasma Circularity self-assessment tool** on KPIs as **unified measure** of SMEs *readiness & willingness to invest in CE*. Decision support tool highly transferable to coastal/insular areas.
3. **114 SMEs** in aquac/fishng value chain tested the tool.

8 Project Concrete Results from Cooperation

4. BLUEfasma e-network facilitates experience exchange & management networking amongst all actors in fishing/aquaculture sector

180 registered users so far



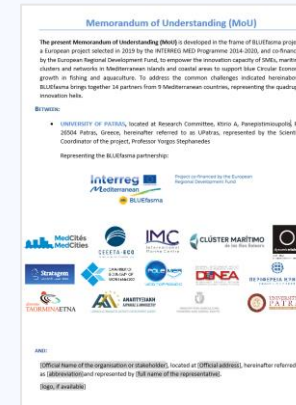
5. **Blue Livings Labs**(BLLs) integrate Res&Innov, create user-centrd open-innovation ecosystems focused on circularity and **driving economic change in fishing/aquaculture**
6. **Enhance effective synergies** btw businesses, research bodies & Public Authorities in BLLs/transferring
7. **BLUEfasma Capacity Building Instrument** integrates financing/mentoring/coaching opportunities for R&I business investment in fishing/aquaculture (*test before invest*)

BLUEfasma Memorandum of Understanding



8. MoU between BLUEfasma partnership and private/public key actors of fishing & aquaculture sector has been signed

47
entities
have
already
signed
the
MoU



Circular Economy is an answer to a common territorial challenge Mediterranean countries are facing: the continual depletion of natural resources. It is estimated that between 80% to 95% of products are no longer used six months after their production, and this makes it impossible for natural resources to regenerate as fast as they are consumed. Therefore, making the most out of natural resources by reducing their use, reusing and recycling is a necessity. This matter is a common territorial challenge and has to be addressed with the involvement of a wide range of stakeholders.

Fishing and aquaculture is a key blue economy sector. However, it lacks innovation performance, especially in Circular Economy practices. No effective, systematic work in such practices has been performed in the Mediterranean region, unless northern EU countries have demonstrated extensive applications of Circular Economy principles. In this sense, BLUEfasma aims to support and empower SMEs of the fishing and aquaculture sector in increasing their capacity to implement Circular Economy practices.

As its circularity self-assessment tool, BLUEfasma project will assess the current circularity level of relevant stakeholders, and assess their readiness to invest in blue circular economy.

By engaging a wide range of stakeholders, BLUEfasma will support the shift of relevant policies towards facilitating Circular Economy business development opportunities, expecting that this will result in the improvement of quality of life, a smarter and more sustainable growth and a better management of natural resources.

GOALS, VISION AND OBJECTIVES

BLUEfasma partnership and the involved stakeholders consider this Memorandum of Understanding as appropriate and strategic in order to establish a framework of cooperation between them, and therefore maintain the following aims as a priority:

- The stakeholders involved in the project share a strong interest in participating in the Blue Circular Economy community in order to foster the creation of synergies, the sharing of good practices and the spread of blue Circular Economy practices in the nine Mediterranean countries involved.
- In line with the General Data Protection Regulation, the BLUEfasma partnership and identified key actors recognize that all the data collected will be used for BLUEfasma activities only.
- The stakeholders involved in the project will have priority access to the events organized as part of BLUEfasma activities.
- The present agreement will come into force on the day of signature, and remains valid for five years after the end of BLUEfasma project.
- This Cooperation Agreement constitutes only a statement of the principal wishes of all sides to be informed and involved in BLUEfasma project activities. The signatories agree that no financial or legal obligations arise from this Cooperation Agreement.

SIGNATURES

On behalf of the BLUEfasma project:



Project co-financed by the European Regional Development Fund

Lead partner: University of Patras Name: Surname: Professor Vigiros Staphanides

Signature

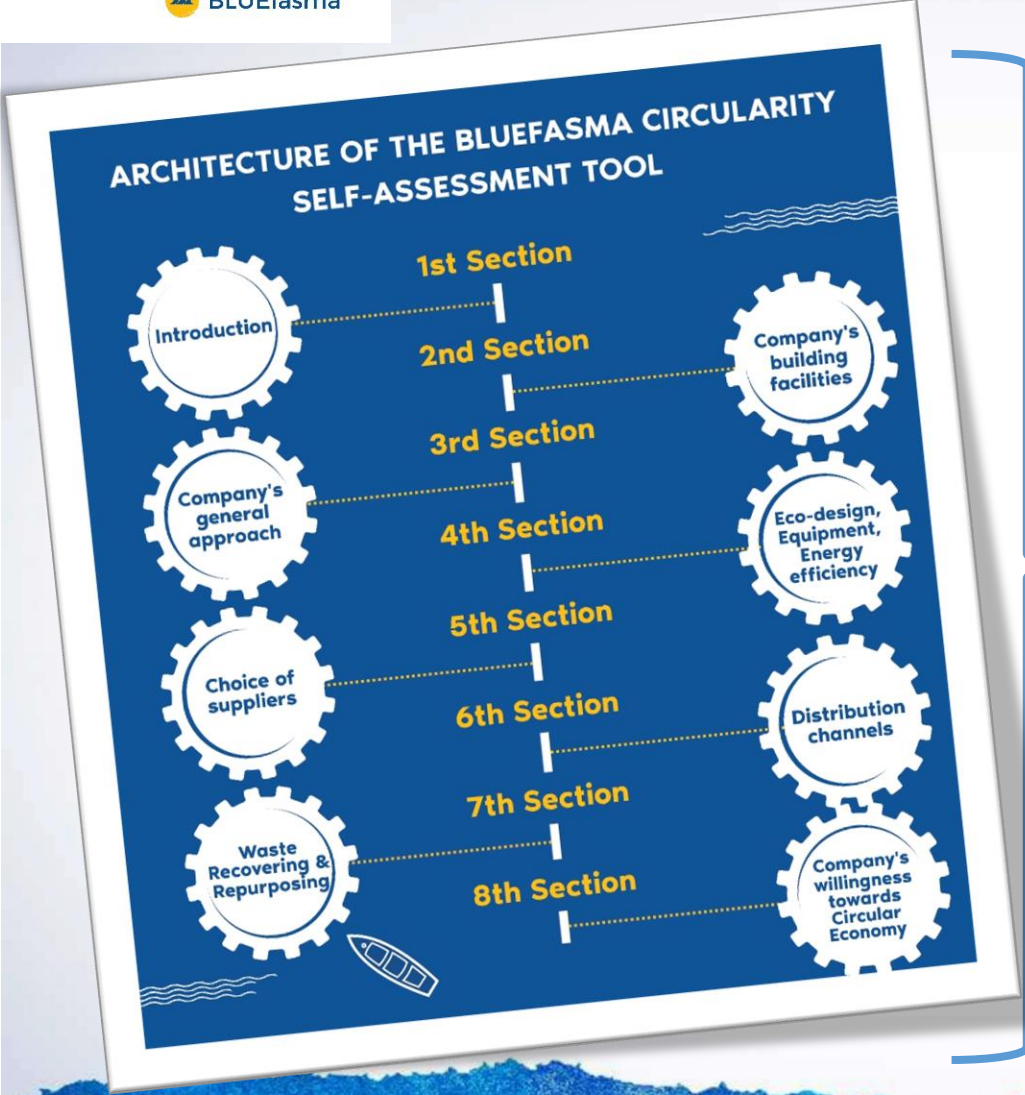
On behalf of the stakeholder:

(Insert logo, if applicable)

(Official name of the organization/stakeholder) Name: Surname: _____

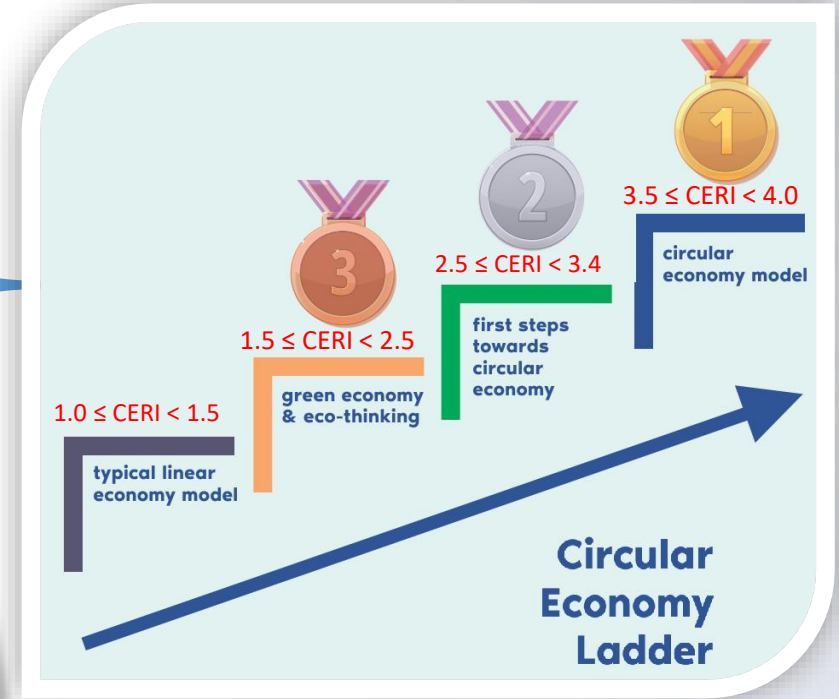
Signature

BLUEfasma Circularity self-assessment tool



Depending on SMEs' answers, automatically calculates 2 indicators:

1. Circular Economy Readiness Index (CERI)



2. Company's Willingness to Invest in Circular Economy (WICE)

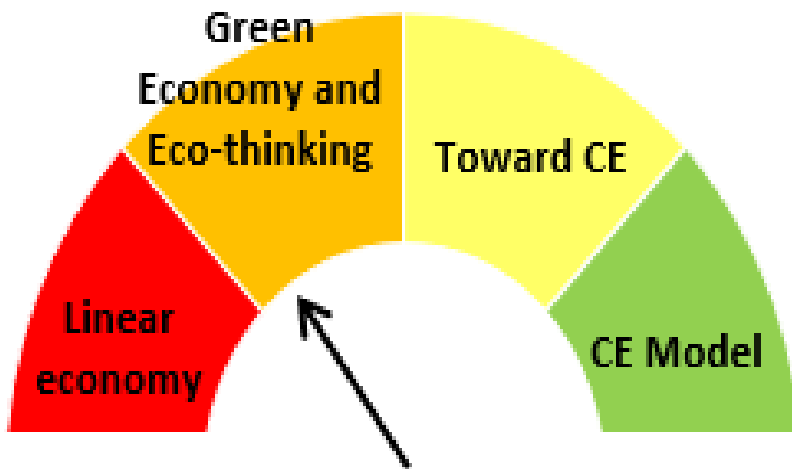
Questions answered based on SME's economic profile (Fishing/Aquaculture; SME in Primary/Secondary production, Distribution, Retail); and answers to previous questions.



BLUEfasma Circularity self-assessment tool result

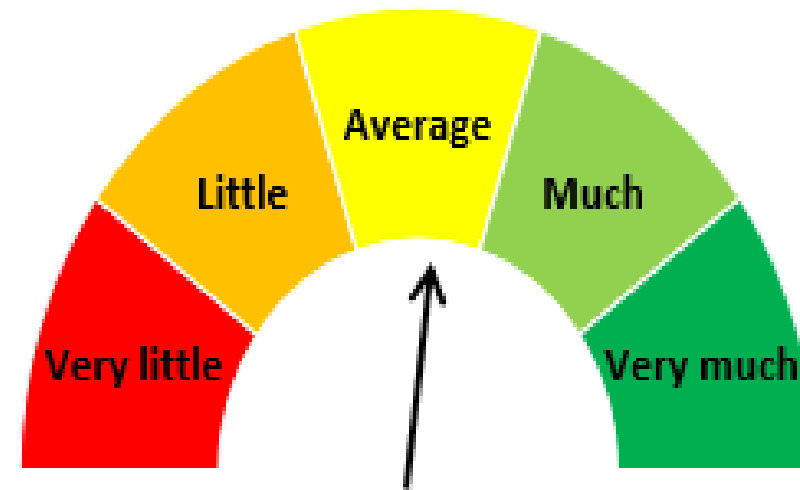


Added value for the
SME



Position at circular economy ladder
 1,9

CE Level of Med in fisheries/aquaculture is low. However, average is 1.9 of 5, i.e. management follows green economy and eco-thinking in business



Willingness to invest in CE
 3,5

Average willingness to invest in CE is encouraging: 3,5 of 5. Stakeholders receptive/ready to invest, search for new business solutions to drive shifting to CE.

✓ *BLUEfasma Personalised Management Tool
for Economic Change*

✓ *Opportunity to form critical
mass for HORIZON proposal*

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