Mediterranean Aquaculture Integrated Development

Mediterranean Aquaculture Integrated Development

http://www.medaid-h2020.eu

Horizon 2020
No. 727315

- **MedAID is a 7 million € and four-year project (May 2017-April 2021), funded by the European Union in the frame of Horizon 2020**

- **MedAID, together with PerformFISH, are two RIA (Research and Innovation Action) which have been approved under the call SFS-23-2016 "*Improving the technical performance of the Mediterranean aquaculture*".**

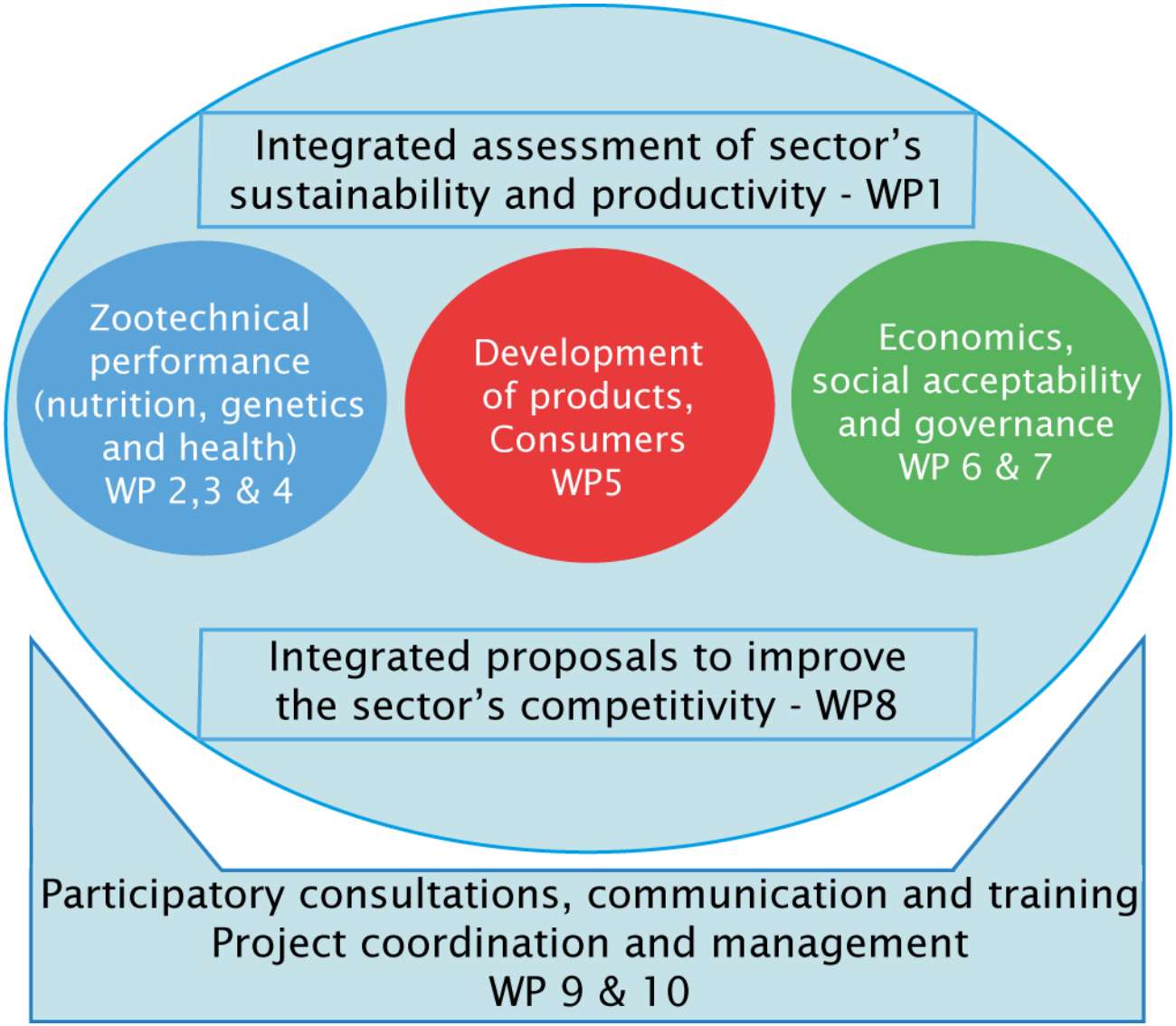
- **The main goal of MedAID is to increase the overall competitiveness and sustainability of the Mediterranean marine fish-farming sector, throughout the whole value chain.**

holistic assessment
identify the main constrains

practical approaches/recommendations to help **integration, harmonisation and governance**

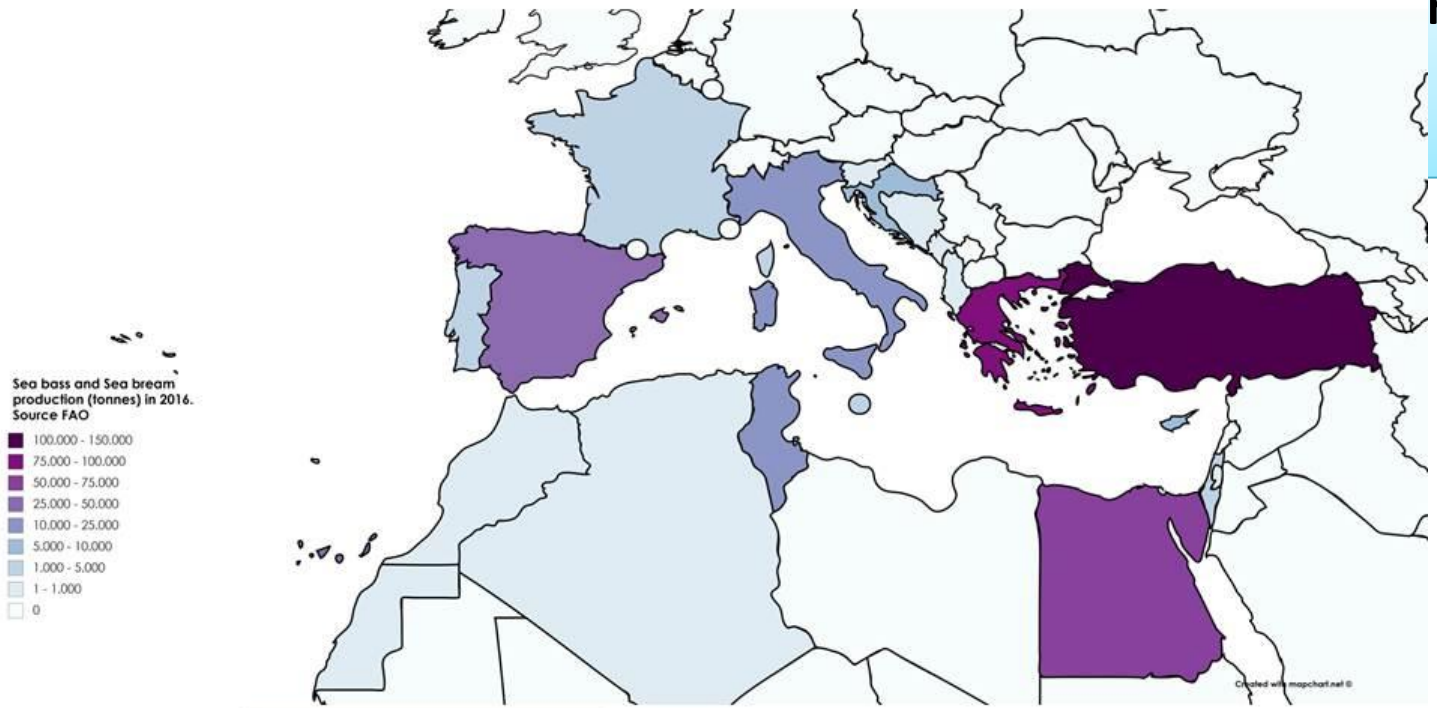
development of innovative knowledge and tools

Project structure



Main results & Impacts. WP1. Assessment

WP1. been and g**hain**, has as social



Country	Total	TR	GR	EG	ES	TUN	IT	HR	CY	FR	MT	IL	PT	AL	DZ	PS	BA	ME	MA	SI
Prod. (t)	343.622	139.101	91.822	51.161	35.353	14.732	14.400	9.411	6.556	3.600	2.260	2.132	1.569	400	360	250	173	138	134	70
on-growing units		339	318	44 + 21200 fed.	86	25	77	61	9	20	2		1480 lic					2	1	1

FIGURE 3. SEABASS AND SEABREAM PRODUCTION (TONNES) IN 2016 (SOURCE FAO)AND NUMBER OF ONGROWING UNITS (SOURCE MEDAID).

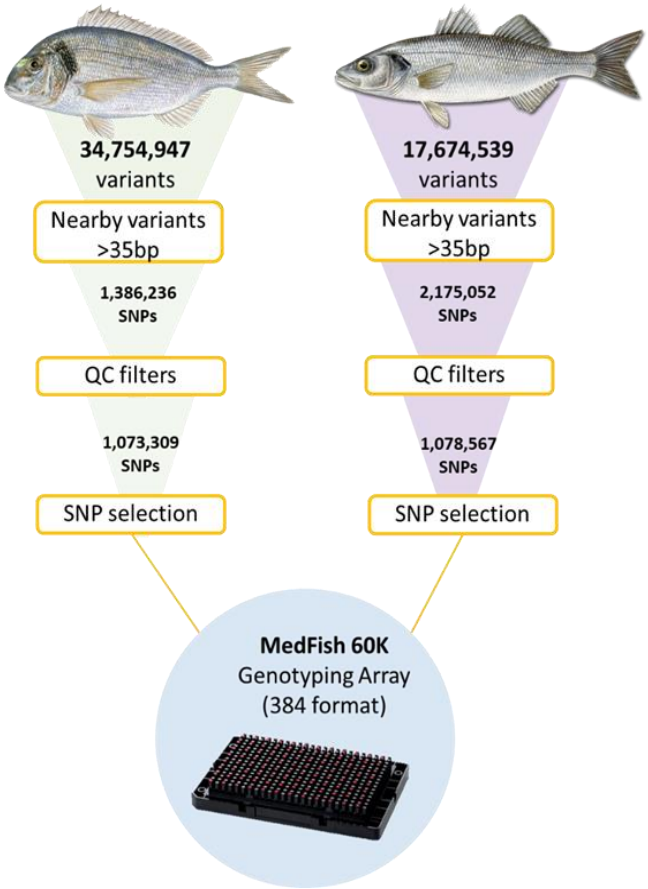
Main results & Impacts. WP2. Zootechnics

WP2 focus on identifying zootechnical gaps to establish best management regimes and to obtain **optimal growth with minimal adiposity**, which consider both a correct welfare status and unfavourable farm conditions.

i) Address the **problem of fat deposition** in European sea bass
ii) Improve juvenile quality for ongrowing by understanding the role of **epigenetics**
iii) Determine optimal conditions for juveniles for improving their performance during ongrowing
iv) Reduce feed conversion rate, improve health and stress tolerance using **better rearing and feeding strategies**
v) Improve welfare by **minimising stressful events using nutritional modulation** and/or immune stimulation

Main results & Impacts. WP3. Genetics

WP3, in collaboration with PerformFISH, has developed a SNP chip, based on over 50 seabream and seabass populations from 11 Med. Countries (**Del. 3.1**). This tool will be use to:



- To discover genes **associated with production traits** in seabass and seabream.
- To characterize the **genetic diversity of representative populations** of farmed sea bass and sea bream, and test measures on inbreeding.
- To assess the extent for **GxE interaction for temperature and on production** efficiency for seabream.

Main results & Impacts. WP4. Health

WP4 has reviewed the **prevalence** of main diseases impacting Mediterranean marine fish farming and is implementing new **risk assessment tools.**

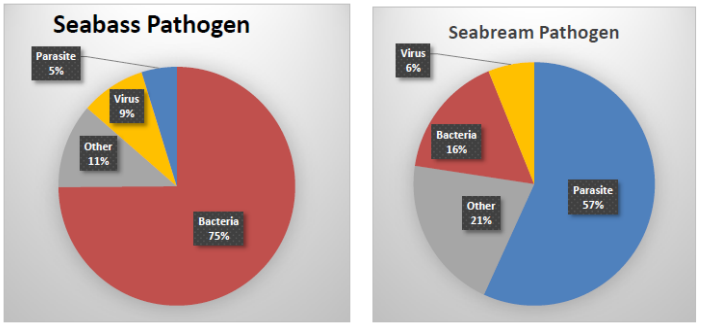
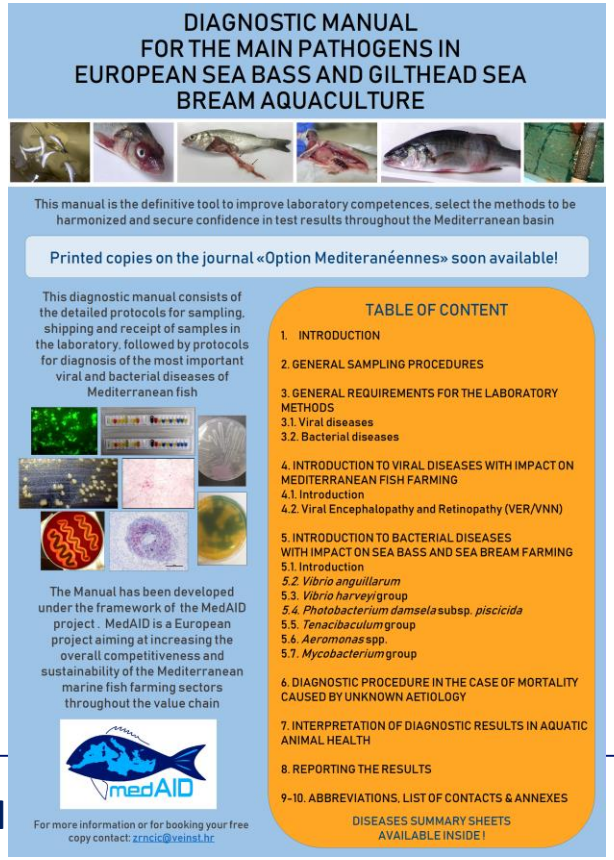


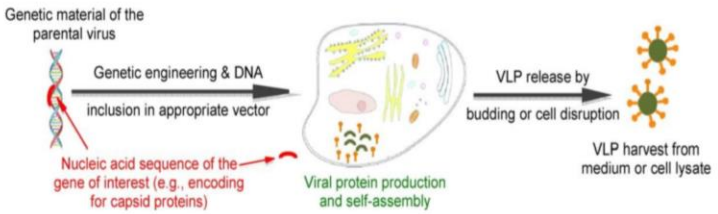
Figure 16. Reported diseases in seabass and seabream classified by pathogen group

Strengthening of diagnostic capacities (PT test), improving communication and harmonization on diagnostic procedures **(Del.4.2**.)

Diagnostic manual for the main pathogens in European sea bass and Gilthead sea bream aquaculture

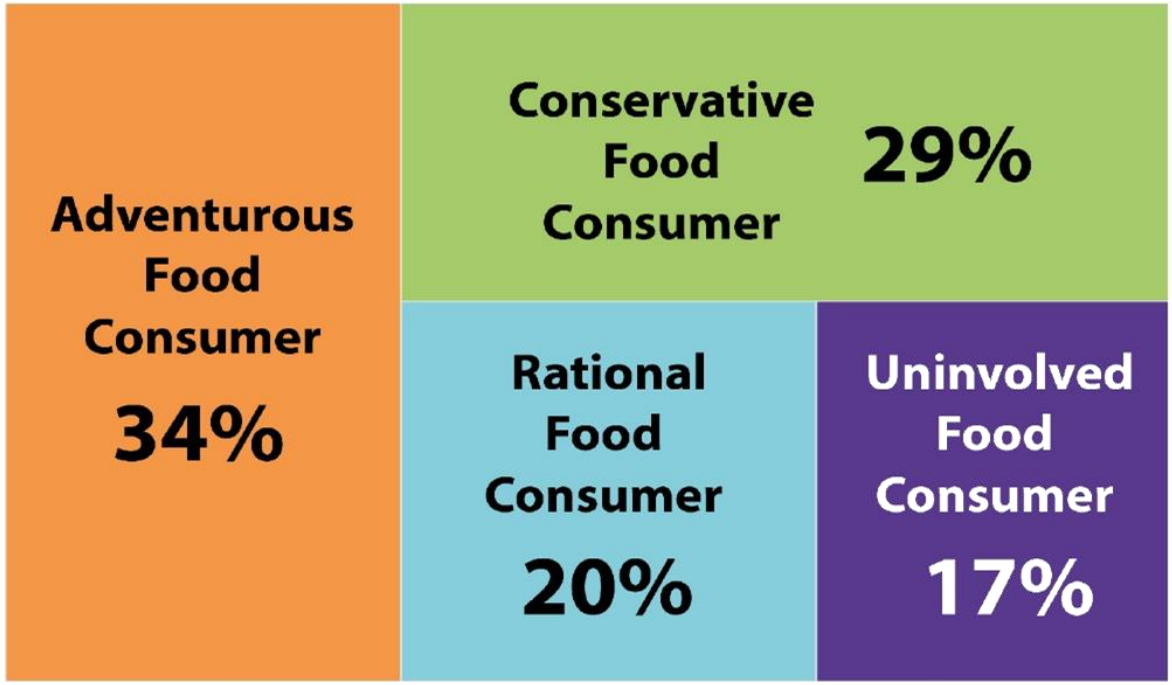


VNN vaccine is now ready for testing in experimental trials.



Main results & Impacts. WP5

WP5 is exploring the potential for different alternative new aquaculture products. After **assessing consumers' preferences and profiles (Del.5.2)** and **identifying product and market requirements of aquaculture chain stakeholders (Del.5.1)**.

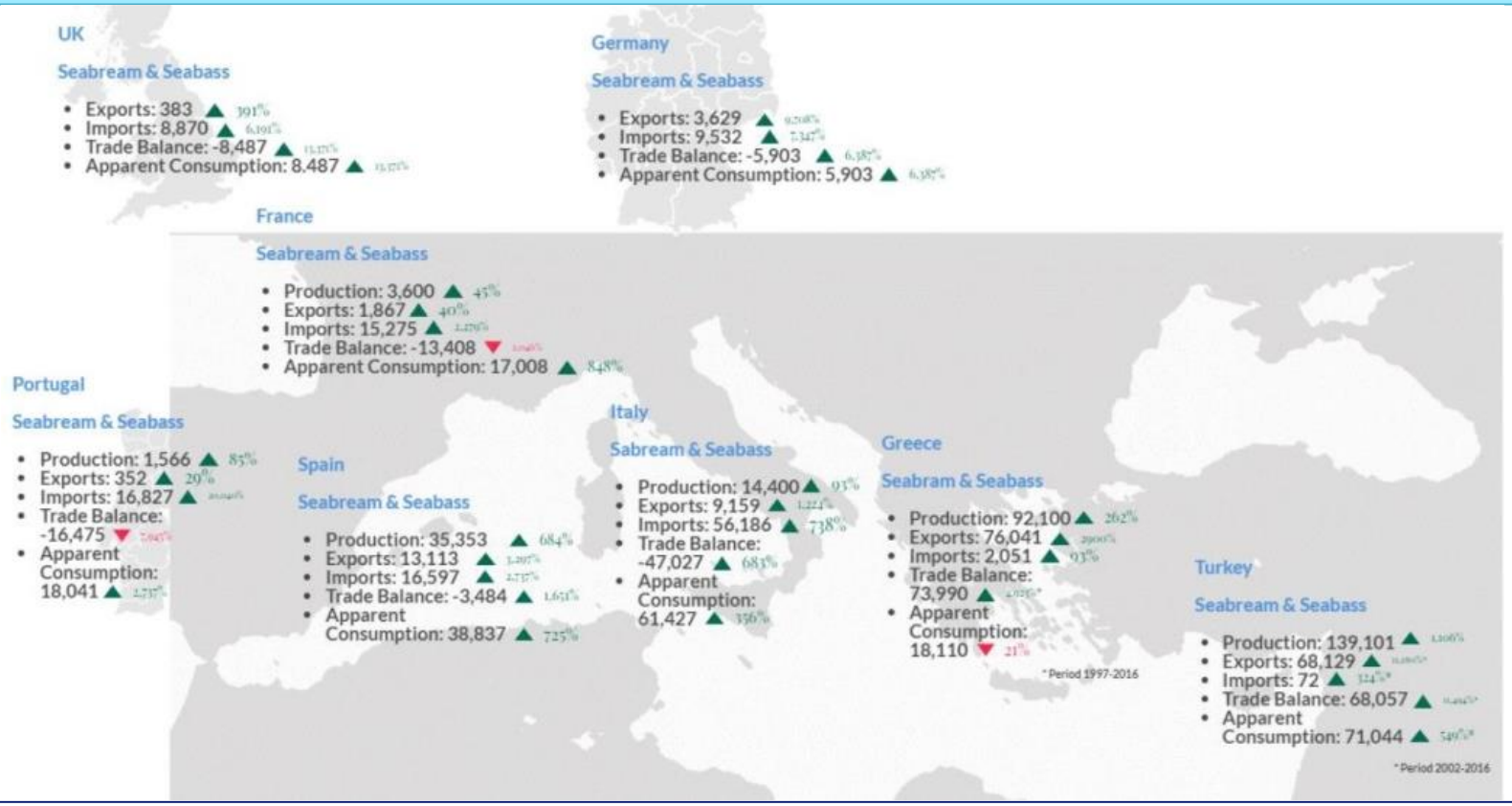


The **development of new products** has started with a characterization of their technological properties.

Main results & Impacts. WP6. Economics

WP6 analyses the economic efficiency and performance of the whole sector. An analysis of the market equilibrium by the estimation of the supply and demand functions at various levels of the value chain **(Del.6.2)** .

This information about the market structure and its dynamics will set the basis for proposing business and marketing strategies for the sector.



Main results & Impacts. WP7. Governance

WP7 will

- **Asses the social acceptability of aquaculture** in the Mediterranean area
- Provide **tools and methods enabling to enhance the social acceptability** to accompany the sustainable development of the sector
- Provide recommendations (**Guidelines**) to improve governance of aquaculture through the integration of social acceptability concerns in decision making processes

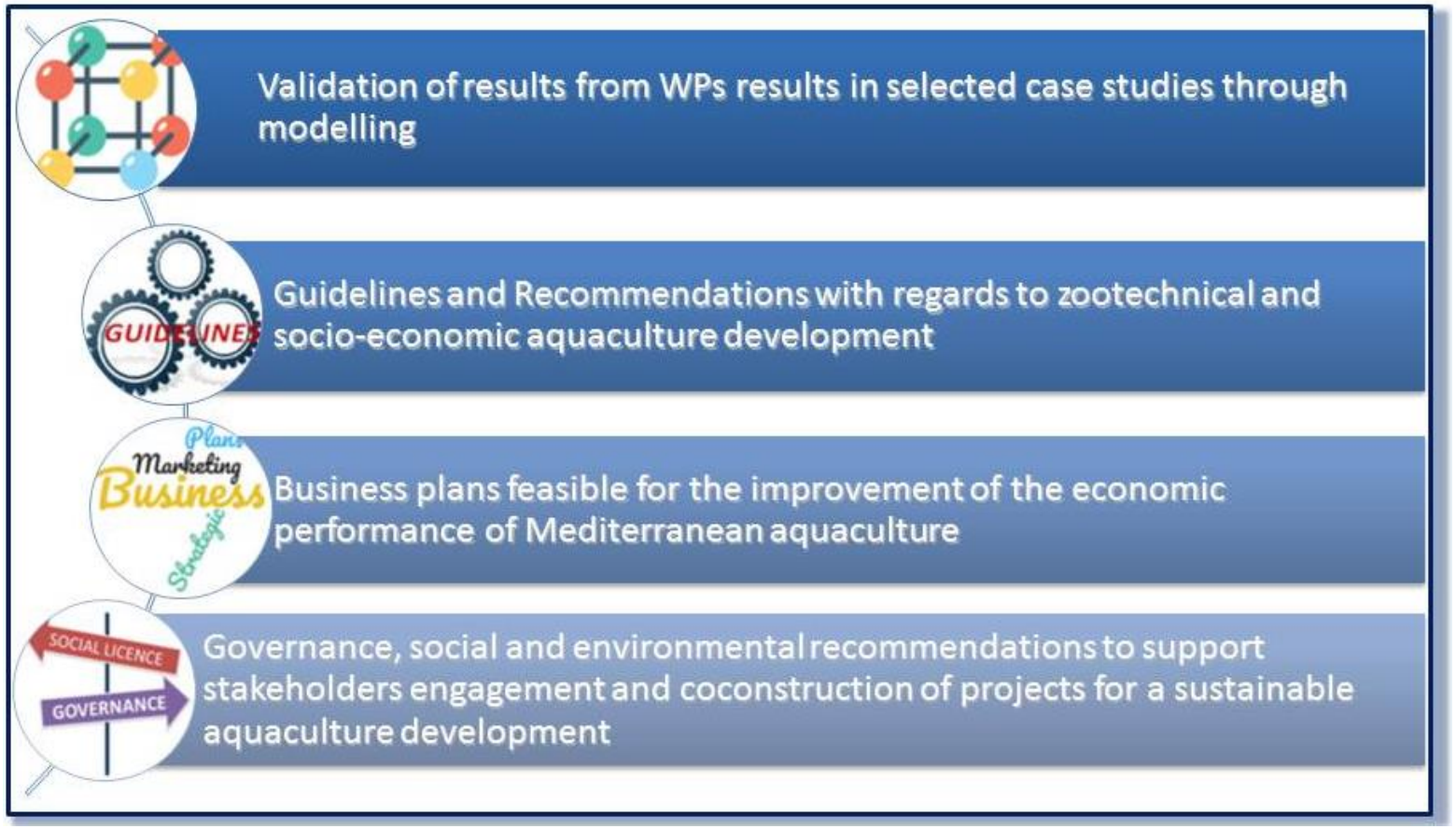
Food and Agriculture Organization of the United Nations

General Fisheries Commission for the Mediterranean
Commission générale des pêches pour la Méditerranée

SCIENTIFIC ADVISORY COMMITTEE ON AQUACULTURE (CAQ)
Eleventh session
Malaga, Spain, 10–12 September 2019
Draft Guidelines in support of social acceptability for sustainable aquaculture development[1]

Main results & Impacts. WP8. Recommendations

WP8 will integrate outcomes from all WP's to propose innovative management practices in order to improve the overall competitiveness and sustainability of the sector.



Dissemination

MedAID, throught its website and other media channels, aims to reach all relevant stakeholders in an effective manner. Please, **visit our webpage** and access to our Blog, information about meetings, training activities, Health forum and all project Deliverables, presentations at congresses or events, as well as open-access scientific articles.

www.medaid-h2020.eu

Newsletter


Deliverables


Congress contributions


MedAID repository

Blog