Our Last Blue Planet

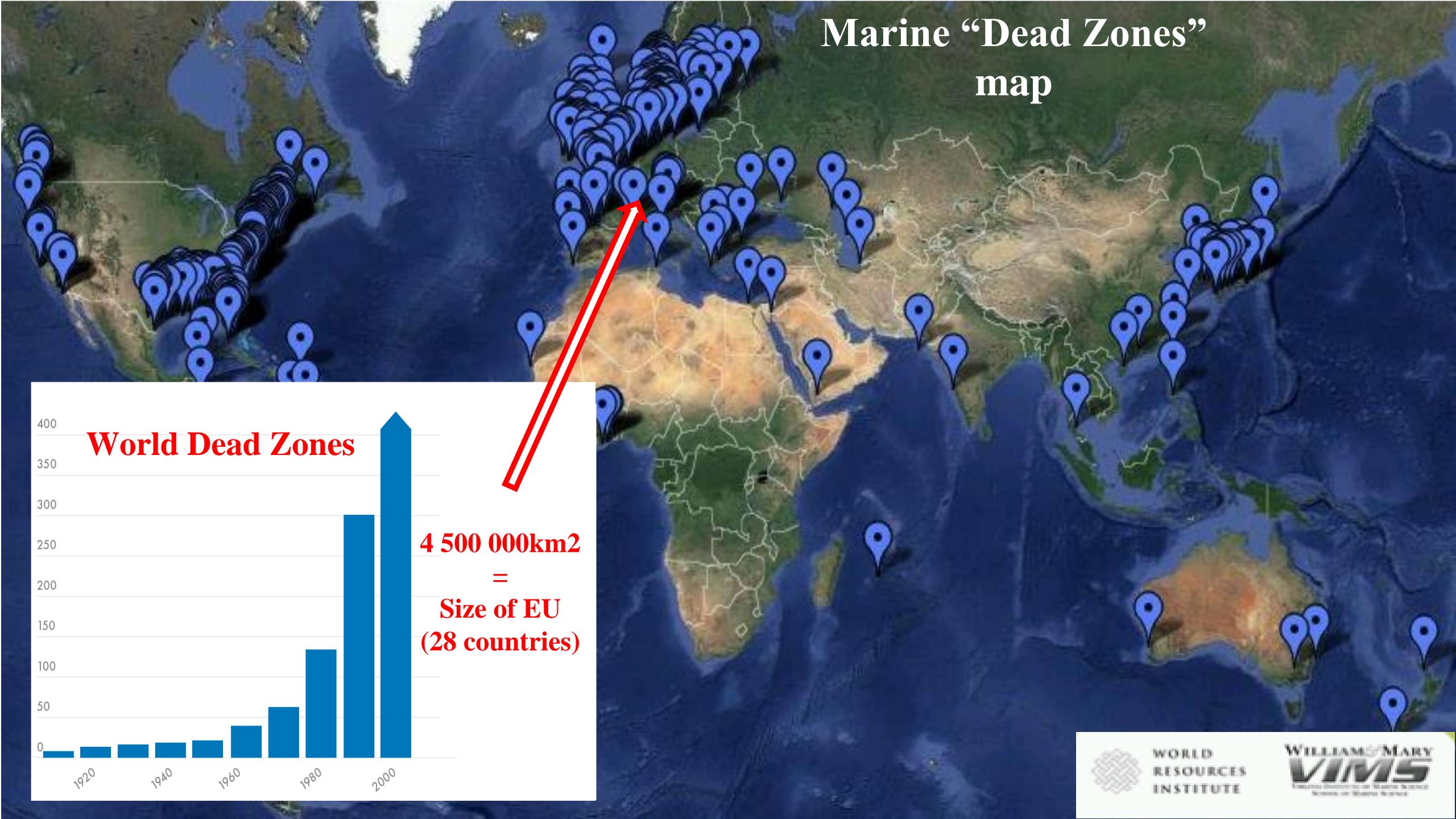
71% Water



29% Earth

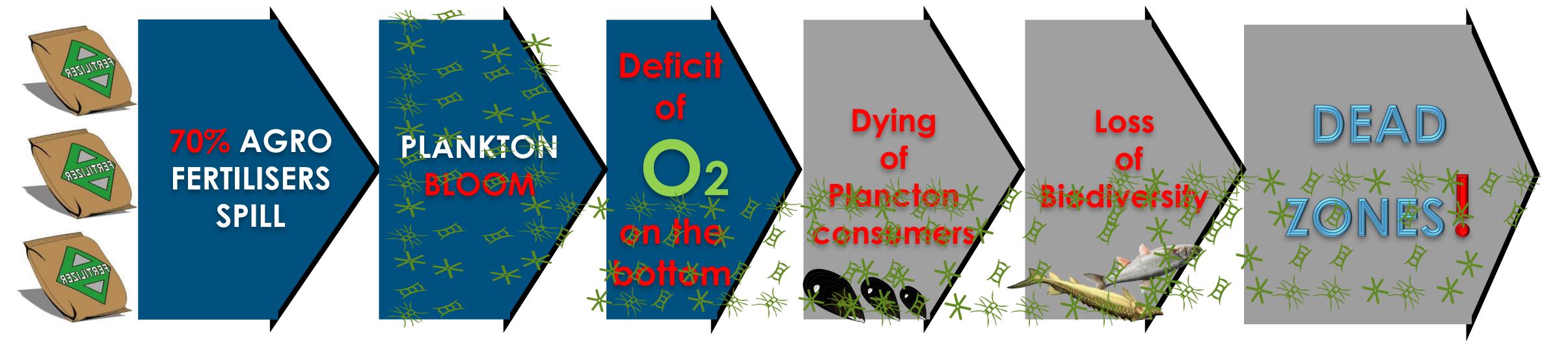
Mass extinction of living species on Earth

	Percent extinction	Species	Before (yr.)	Reason
I	85%	All species	440 M	Climate
II	83%	Sea species	364 M	Climate
III	95%	All species	251.4 M	Volcanos
IV	80%	All species	199.6 M	Volcanos
V	76%	Dinosaurs	65.5 M	Asteroid
VI				
	36%	Marine species	Now	Human
	38%	Terrestrial species	Now	Human
	81%	Freshwater species	Now	Human
	67%	All Animal Species	2020	Human
	?? %	Flora & Fauna	2100	?????

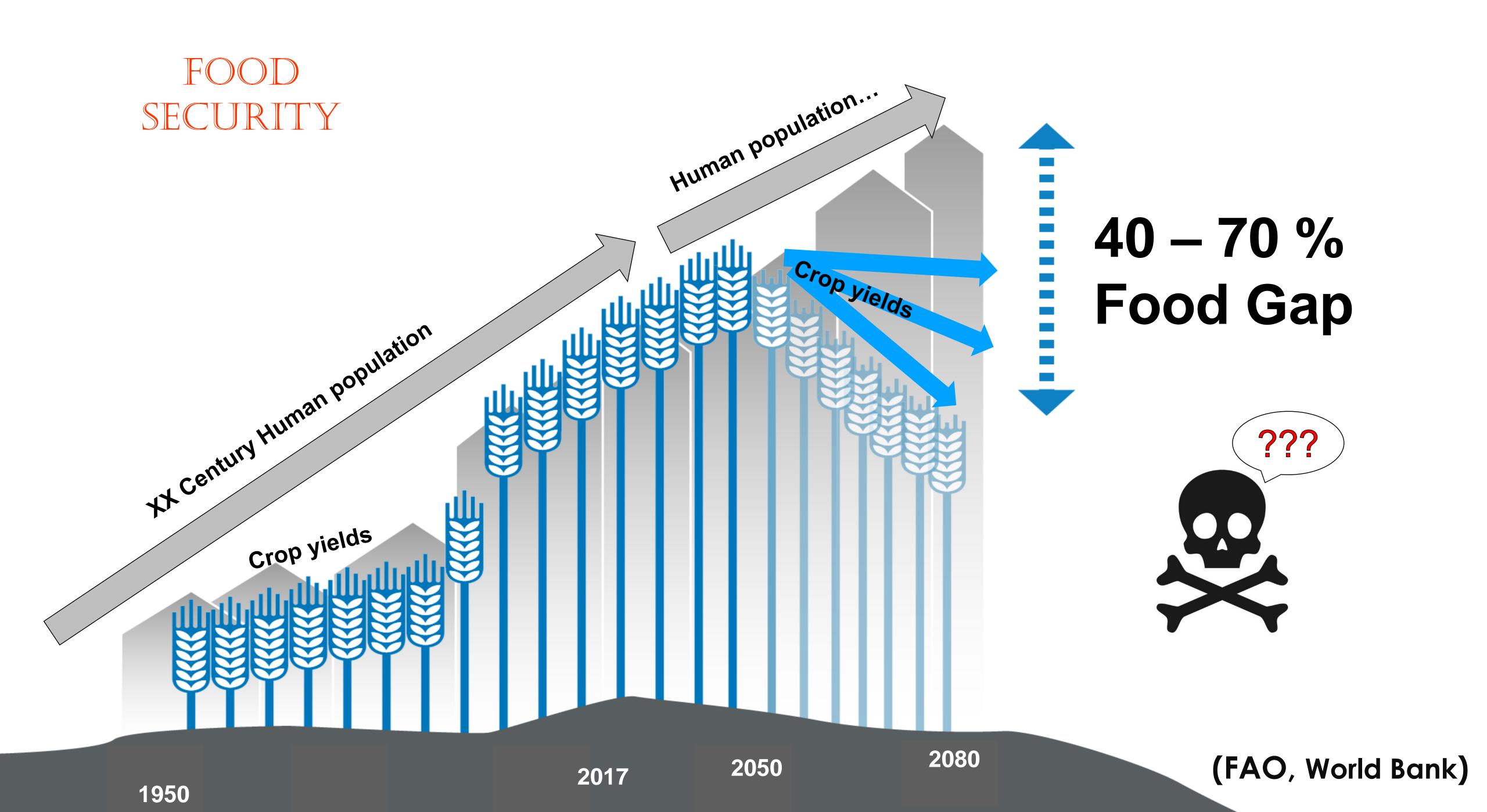


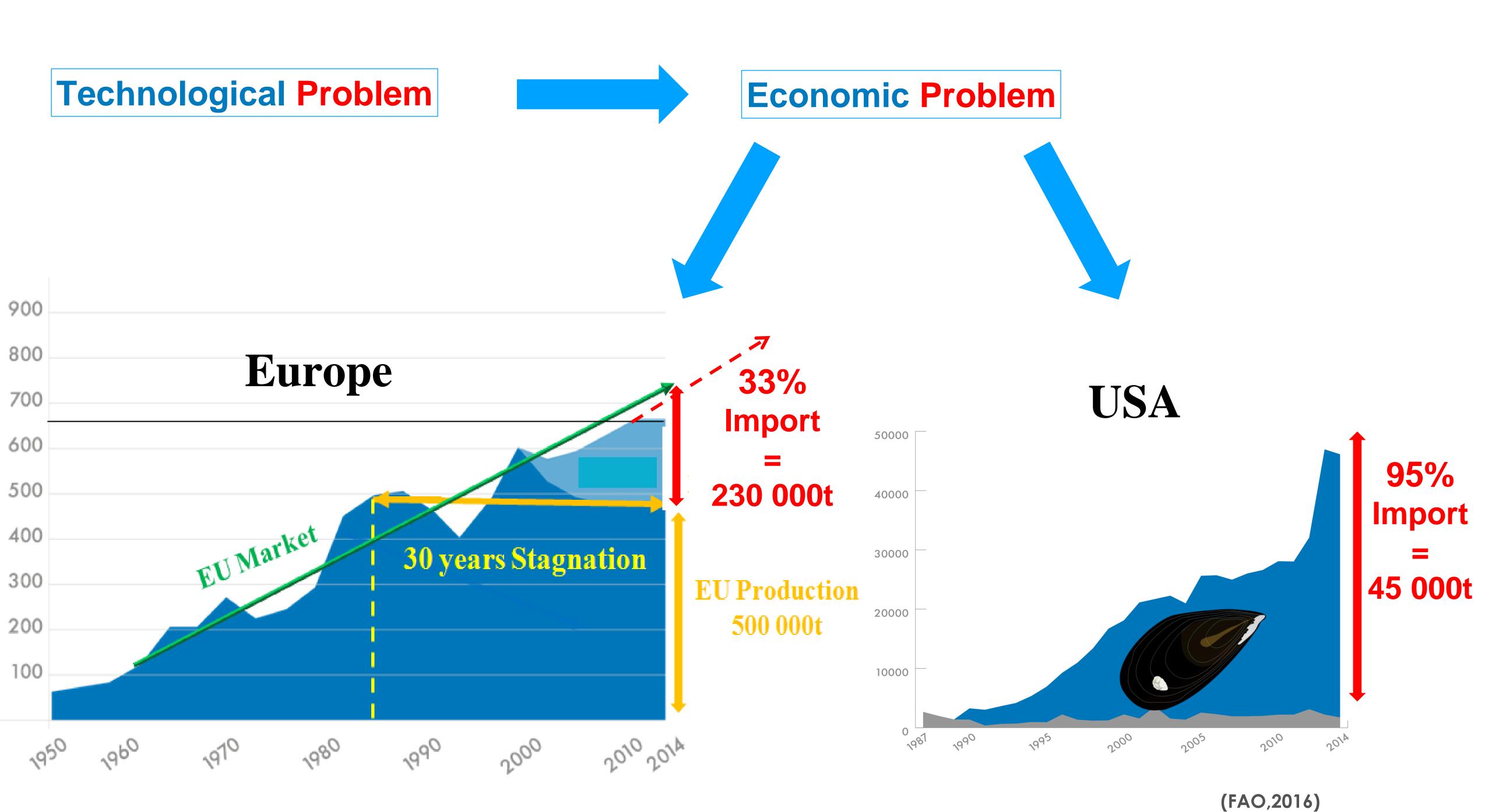
With enough Mussel Reef habitats











Application scale:

Conventional Technologies vs ORTO Pisa Reef



x 100 times more production capacity



Pisa Reef®

Products:

NO Arable land



NO And Feed

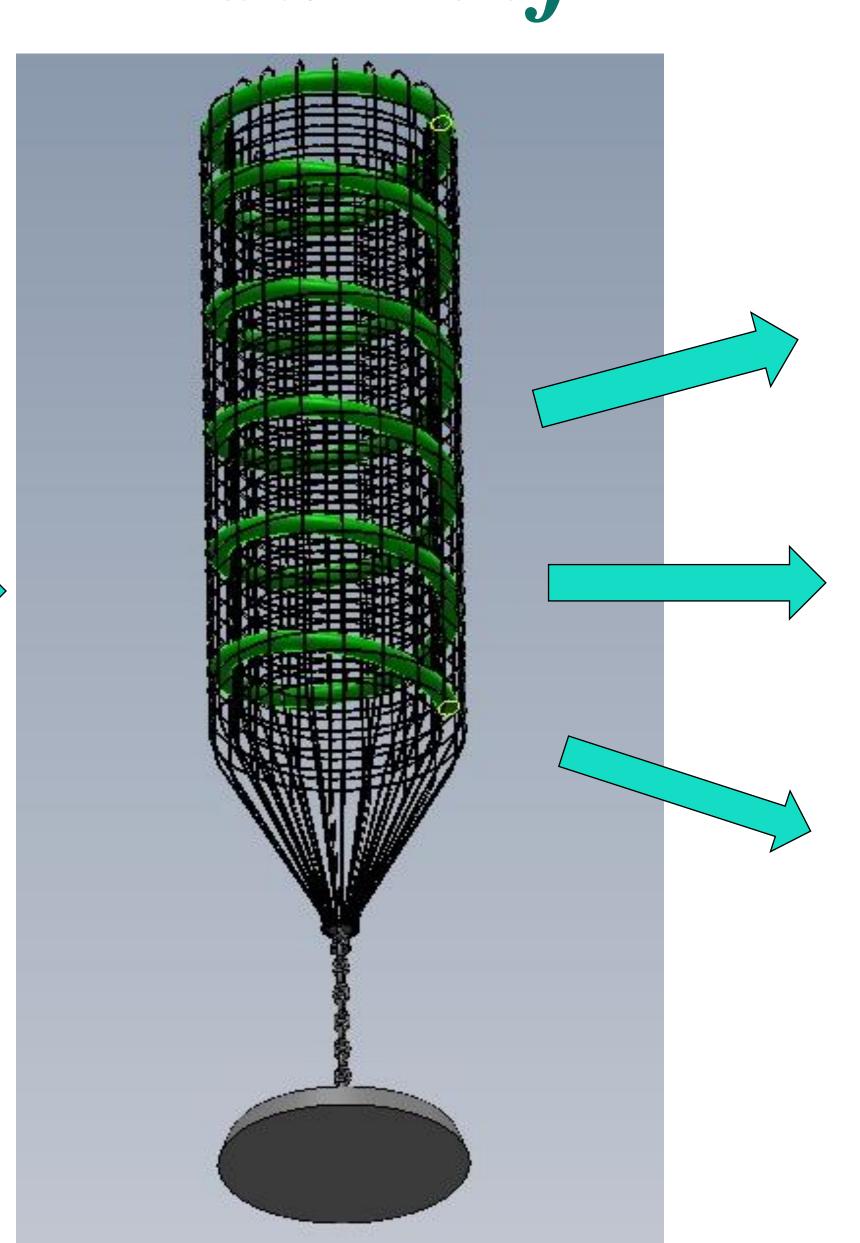


NO Fertiliz



NO Fresh water







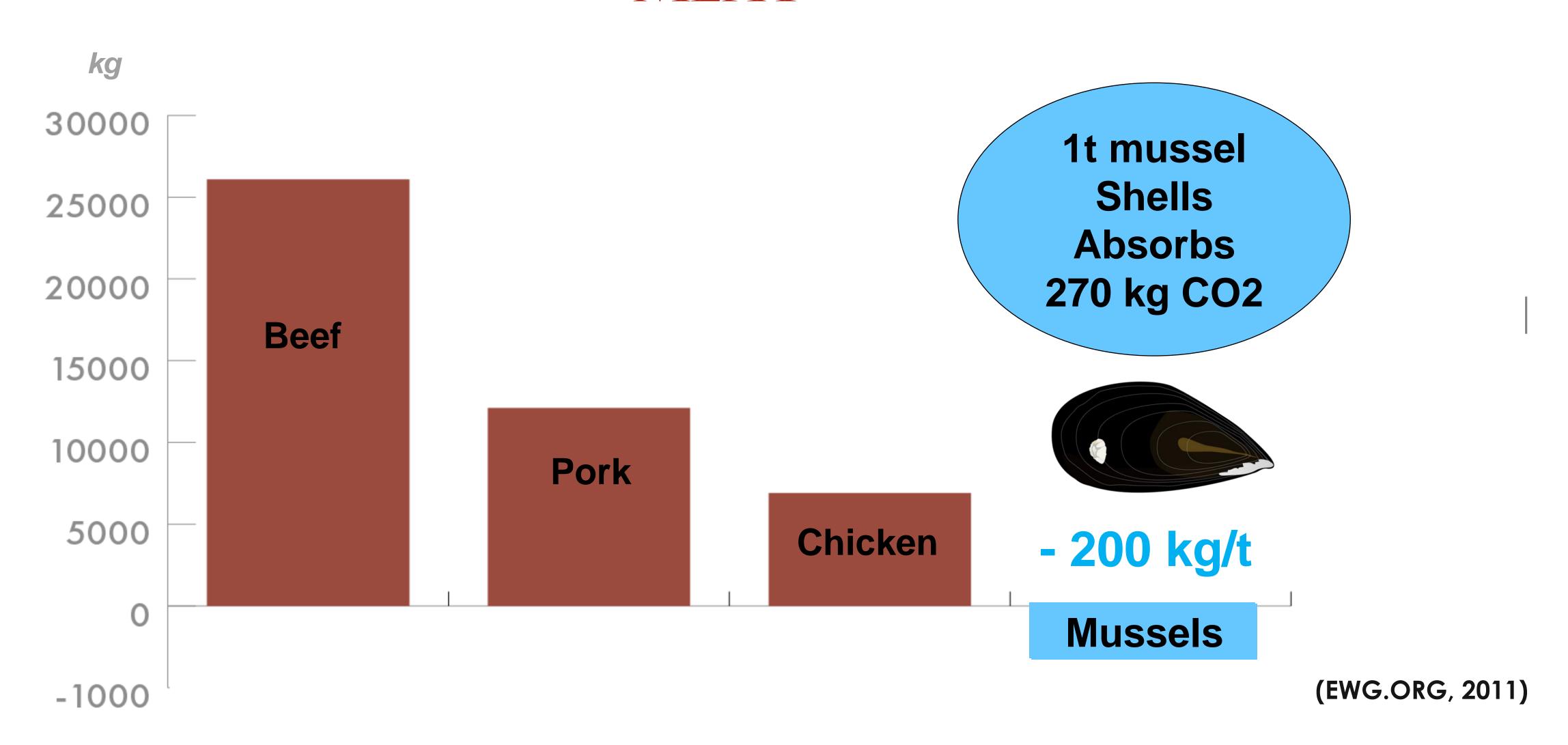








CO2/1000kG MEAT





















A CHANCE to REBUILD the Mineral content of the SOILS



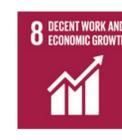


PISA REEF / ORTO











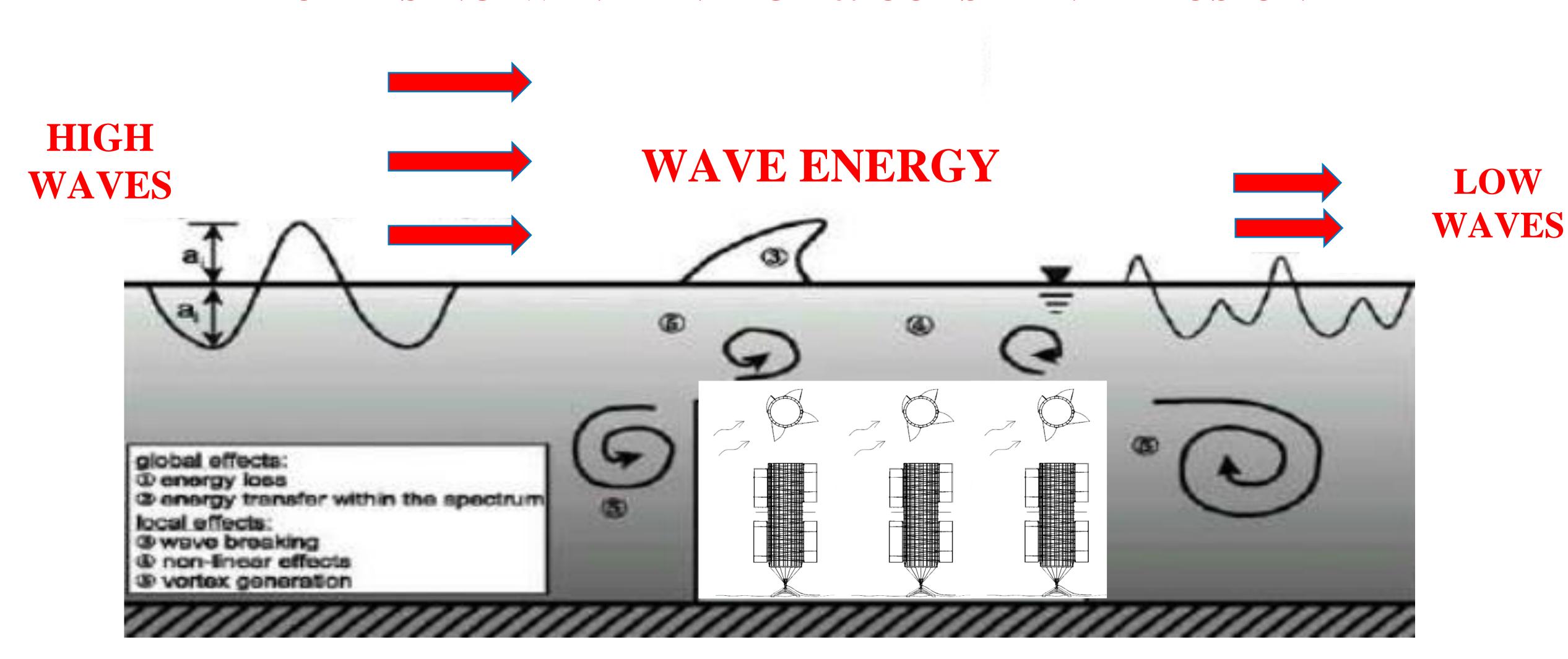




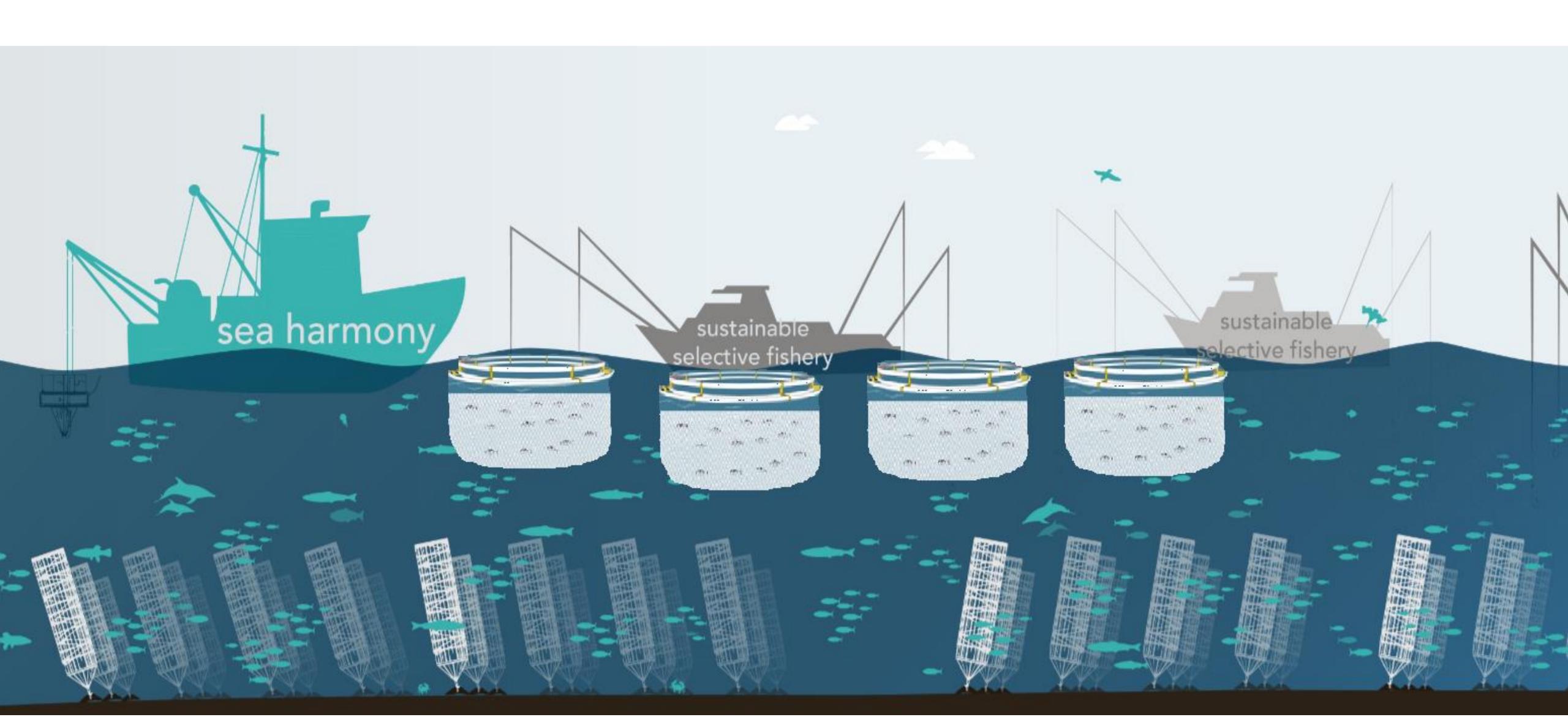




DECREASING WAVE ENERGY & COASTLINE EROSION

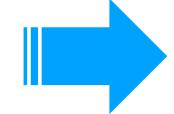


Integrated Reef-Fish Aquaculture Farm



The Application of Recycled Plastic





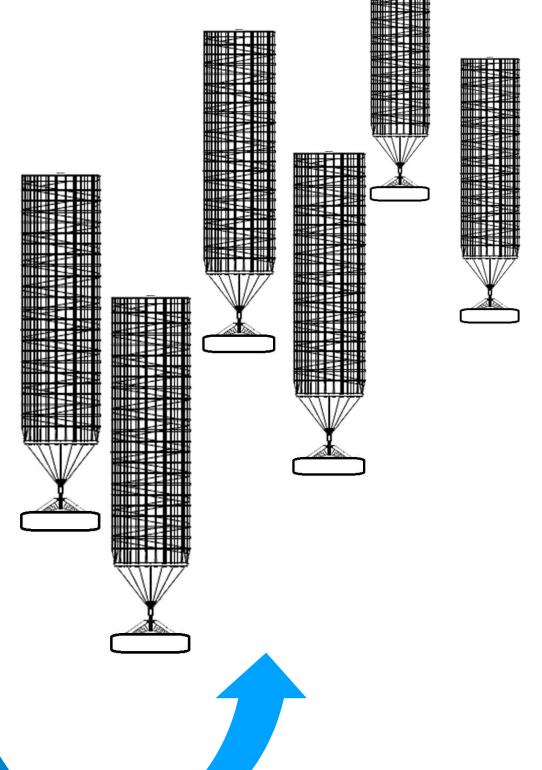
Material cycle

Financial cycle

Eco system service for Society

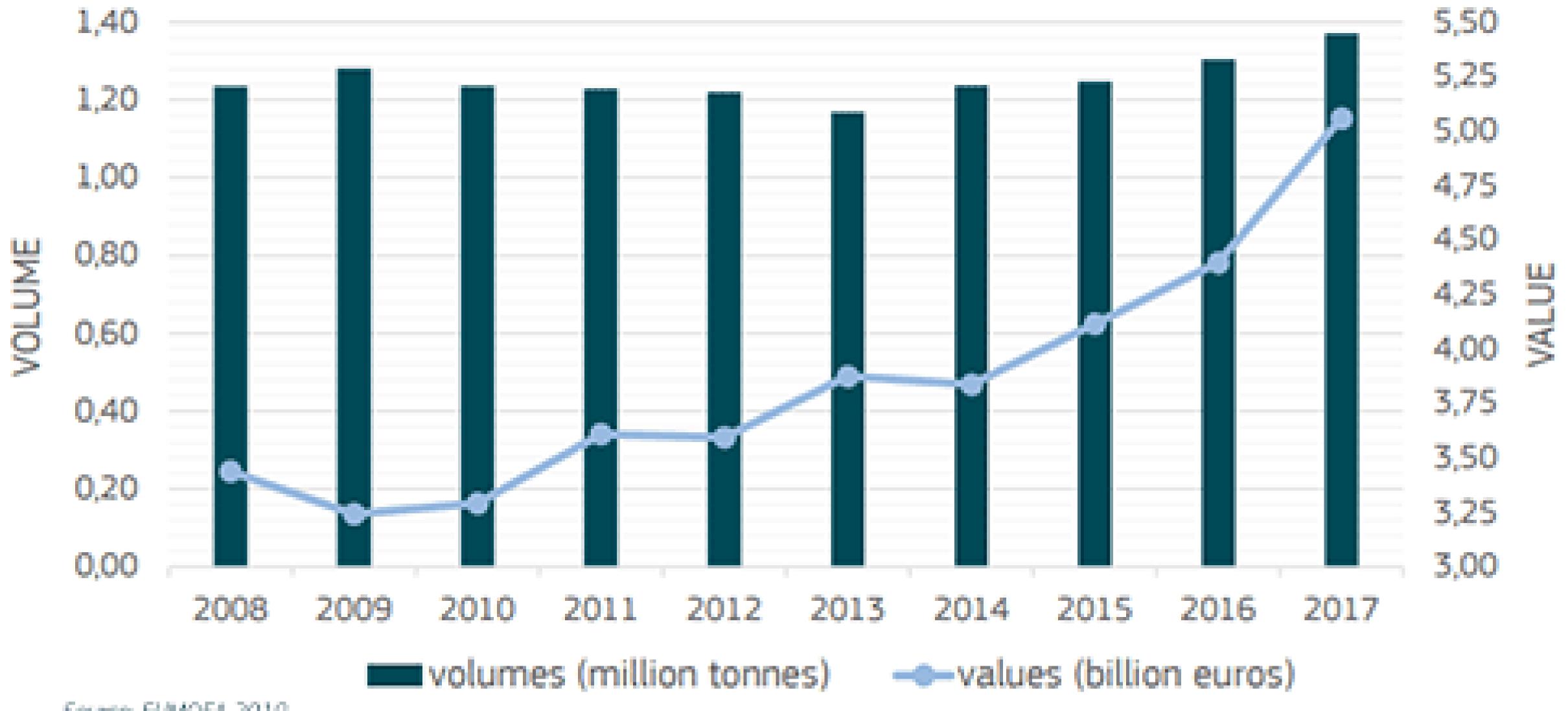
Rational and Sustainable Society



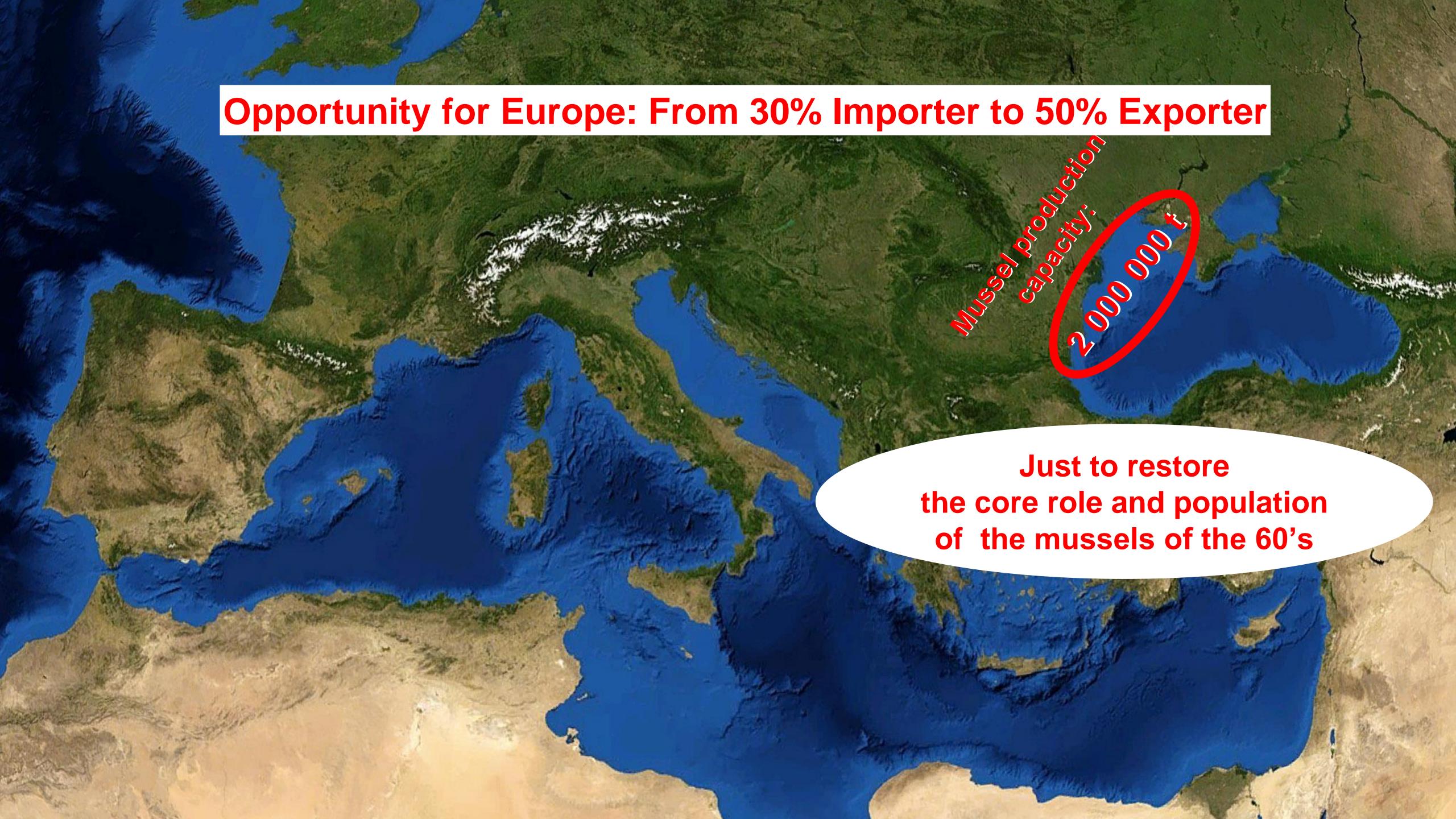


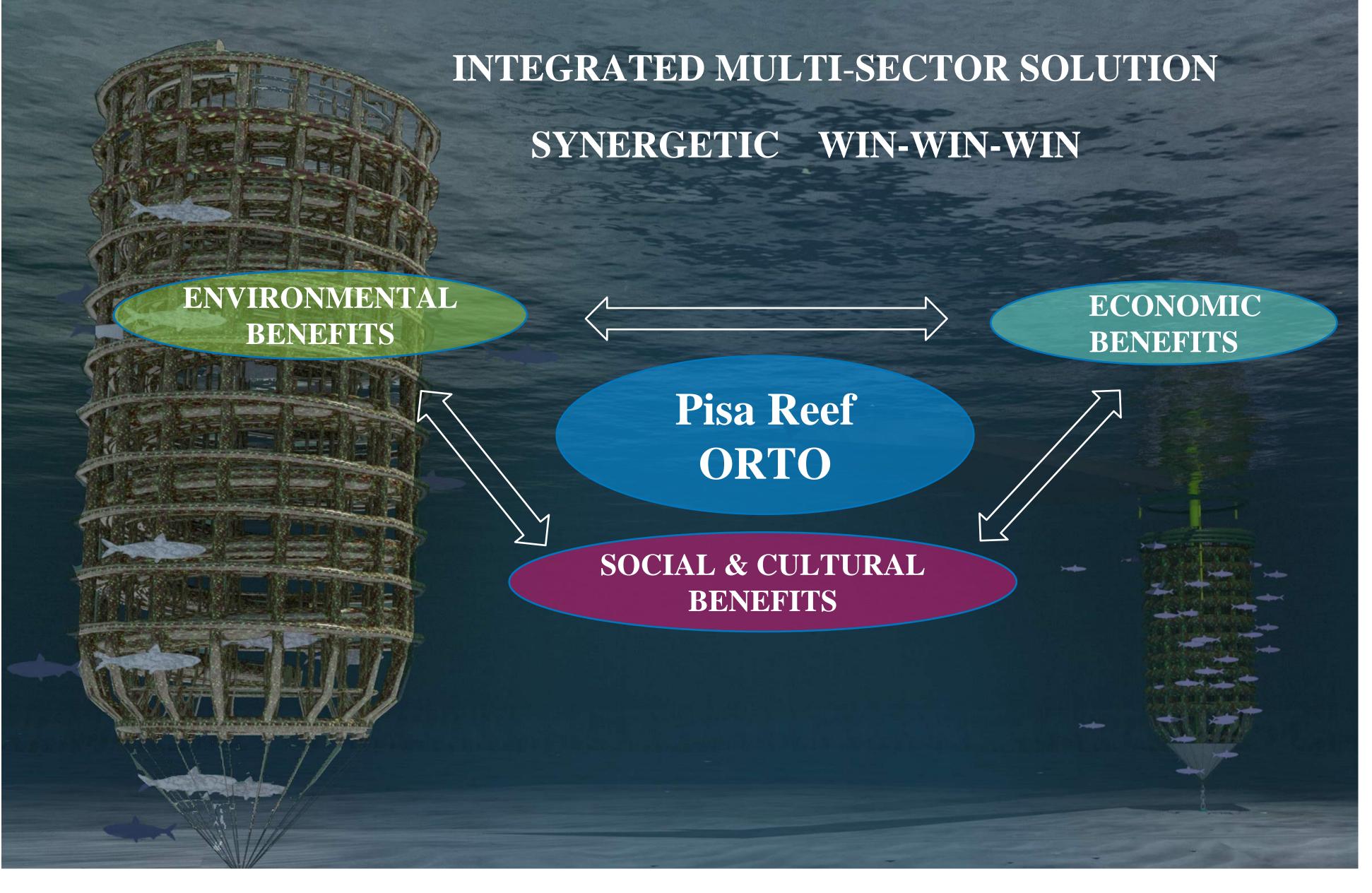


AQUACULTURE PRODUCTION IN THE EU



Source: EUMOFA 2019







Ocean Reef-Tower **Oases**

































Let's make the Reefolution!

www.reefevolution.com

Intensive agriculture



Overfishing



Invasive species

Black Sea in Crises due to human activity

In the 90's, 80% of the north-western shelf is considered a "Dead zone"

"Dead zone"



Change in the food chain

Overexploitation of 80% of the fish stock

> -3/4 in the industrial fishing diversity

50% less fishing -1385 K t in the 80s **677 K t now**

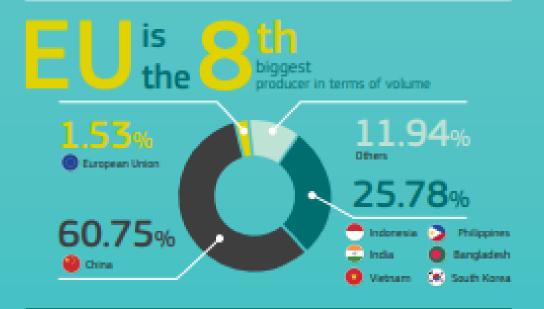
Economic

Less competitive tourism

"Just in 18 years (1973-1990) the biological loses are estimated to be more than 60 000 000 t bottom organisms, including 5 000 000 t of fish."

(Black Sea Commission, 2002)

AQUACULTURE PRODUCTION



Did you know?

Aquaculture will soon surpass wild fisheries as the main source of seafood. This reflects the transition which happened on land in the past with the evolution from hunting to farming.

In AD 79, Pliny the Elder described fish and oyster farming techniques in his book Natural History

AQUACULTURE IN THE EU





aquaculture producers



EU aquaculture provides a fresh, local supply of healthy seafood and follows strict rules to protect the consumer, the fish and the environment.

AQUACULTURE BENEFITS

produced in the EU

- Mussel
- 2 Trout
- 3 Salmon
- 4 Oyster 6 Carp
- 6 Sea Bream
- Sea Bass

FARMED IN THE EU

AQUACULTURE CONSUMPTION



43%

from EU

57%

Non-EU countries



Origin of aquaculture products consumed in the EU

Norway is the

of EU consumption comes from aquaculture

+14 000 enterprises ** LOCAL EU

90% of which are micro-entreprises (with under 10 employees)



Fish and shellfish provide oils, healthy proteins and minerals.







The most consumed the EU are salmon and mussel



Did you know? 🔷 🥎 🥎

Nine out of ten mussels eaten in the EU are actually farmed

Sustainable aquaculture is needed because fisheries alone will not meet the growing global demand for seafood. Aquaculture can also help reduce pressure on wild fish stocks.