



EUROPEAN UNION

Horizon Europe



#HorizonEU #MissionOcean

DR PETER HEFFERNAN
MISSION BOARD MEMBER
PORTUGUESE STAKEHOLDER EVENT OCT 2 2020

***Mission Starfish 2030:
Restore our Ocean
and Waters***





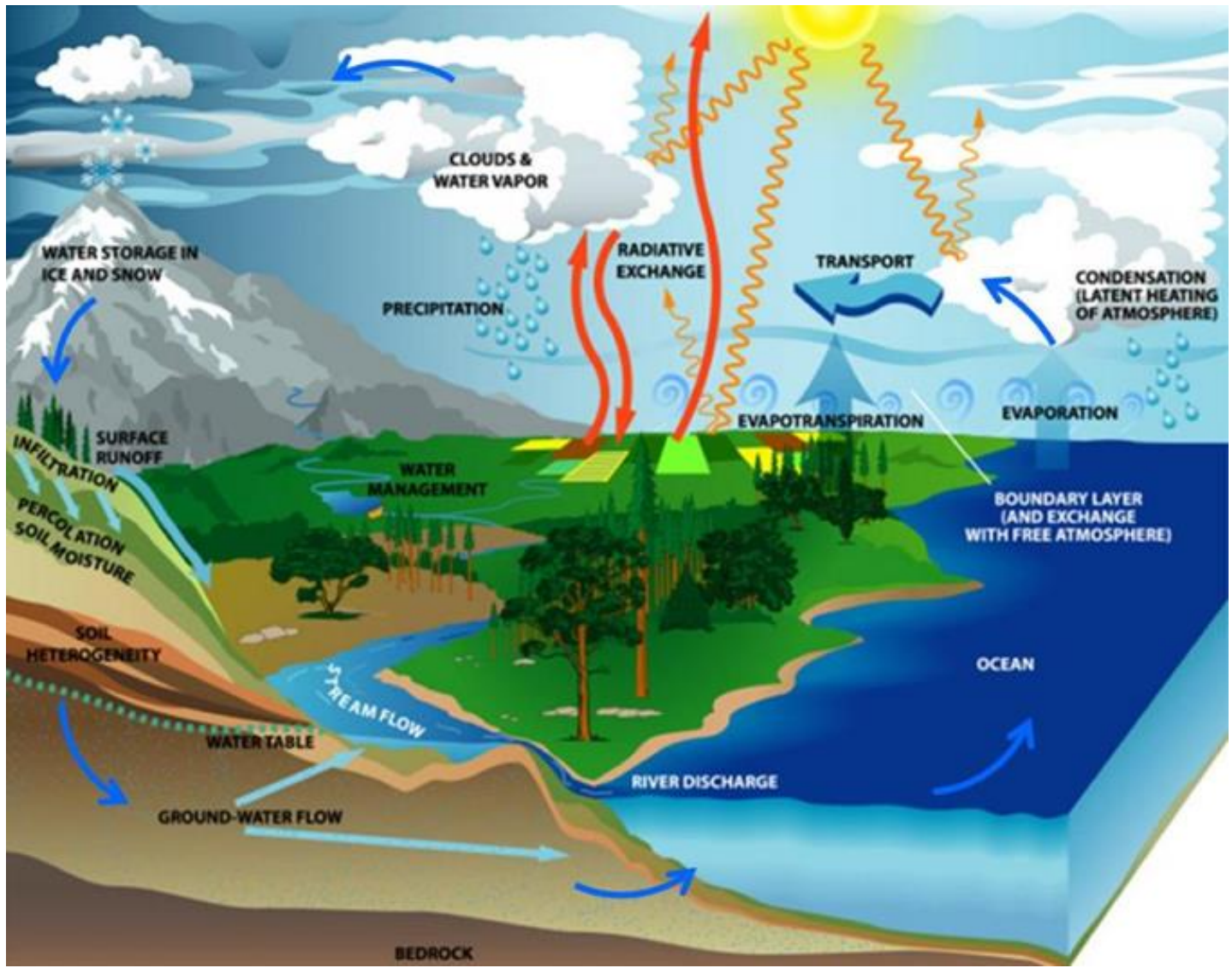
Mission Starfish 2030 ©European Union, 2020



Mission Objective:

***Filling the Knowledge & Emotional
Gap***





Found here : <http://archive.sswm.info/pt-pt/category/concept/water-cycle>



Objective	Target	
<i>Filling the knowledge and emotional gap</i>	1	Each European is a citizen of our ocean and waters
	2	Marine and freshwater observation is streamlined and accessible to all via a digital twin of the ocean and all waters
<i>Regenerating marine and water ecosystems</i>	3	30 percent of EU waters are highly to fully protected
	4	Active regeneration of 20 percent of degraded habitats
	5	Renaturalise rivers and waters
	6	End overfishing
<i>Zero pollution</i>	7	Zero plastic litter generation
	8	Eutrophication of European seas and waters is halted
	9	Zero spill
	10	Underwater noise is regulated and reduced
<i>Decarbonising our ocean, seas and waters</i>	11	Climate-neutral waterborne transport
	12	Support the energy transition through renewable, low-impact ocean energy
	13	Zero-carbon aquaculture
	14	A thriving blue biotech
	15	Climate-neutral blue tourism
<i>Revamping governance</i>	16	An integrated and participatory EU system of ocean and water governance
	17	EU leadership for effective global ocean governance



Target 1: *Each European is a citizen of our ocean and waters*

By 2030

- Literacy and knowledge about the water system are compulsory elements in all science curricula in primary and secondary schools throughout the EU
- 50 percent of Europeans have participated in events organised by the pan-European ocean literacy coalition (EU4Ocean)
- At least 50 percent of the European blue workforce has been upskilled or re-skilled

Checkpoints for 2025

- A pan-European education programme on ocean and waters is implemented
- A pan-European ocean literacy coalition of civil society organisations, youth organisations and schools, museums, aquaria and cultural centres and events is created
- A European regeneration voluntary corps has been created and have branches in all European countries
- 20 percent of data collections comes from citizen's science initiatives
- European academic institutions coordinate and implement a coherent Europe-wide marine science curriculum and strategy for marine science
- The Blue ERASMUS programme enables students and apprentices to broaden their knowledge on ocean and waters from an interdisciplinary social and natural science perspective throughout Europe
- Member States most affected by the Covid-19 crisis have up-skilled and re-skilled 25 percent of their blue economy workforce with the support of the EU



Target 1: Each European is a citizen of our ocean and waters

Supporting Actions

- *Initiatives in every Member state – EU Voluntary Corps linked to Blue Parks*
- *Education*
- *Citizens Science*
- *Blue Workforce*
- *Active cooperation & co-ownership*
- *Arts, Culture & Heritage*



Target 2: *Marine and freshwater observation is streamlined and accessible to all via a digital twin of the ocean and all waters*

By 2030	Checkpoints for 2025
<ul style="list-style-type: none">• Global digital twin of all oceans and waters is operational• Global marine and freshwater observation is streamlined: all data collected is pooled centrally and made accessible to all• Global high-resolution ocean forecasting and regional ocean climate services are operational to support climate change adaptation at coastal scale• The European seabed is fully and coherently mapped in high-resolution• 50 percent of DNA of life in our ocean and waters is fully sequenced and publicly available	<ul style="list-style-type: none">• European digital twin pilot of European oceans and waters is operational• European marine and freshwater observation is streamlined: all data collected by EU Member States is pooled centrally and made accessible to all.• The Copernicus programme deploys coastal-scale ocean forecasting and climate services• The North Atlantic Seabed is fully and coherently mapped in high-resolution• 20 percent of DNA of life in our ocean and waters is fully sequenced and publicly available



Target 2: Marine & freshwater observations is streamlined & accessible to all via a digital twin of the ocean & all waters.

Supporting Actions

- *A European Strategy for Marine Science*
- *A Digital Twin of the Ocean*
 - *Integrating all data assets – Open Access*
 - *Supercomputing – Cloud – Analytics – AI*
 - *Simulation & Transparency*
 - *Empowering shared ownership & responsibility*



Mission Objective:

Revamp Governance



Target 16: An integrated and participatory EU-system of ocean & water governance.

By 2030	Checkpoints for 2025
<ul style="list-style-type: none">• A European Ocean and Water Agency is fully established	<ul style="list-style-type: none">• The legislation creating the European Ocean and Water Agency is enacted• The European Blue Citizens' Forum meets annually since 2021• In 2022, the European Commission presents the first Integrated Ocean and Water Plan for Europe 2022-2030 and in 2025, its first triennial report• The European Council convenes the first EU Ocean and Water Summit



Target 17: EU leadership for effective global ocean governance.

By 2030	Checkpoints for 2025
<ul style="list-style-type: none">• The BBNJ Treaty is enforced [UN]• IUU fishing is eradicated globally [UN]• International ban on all activities causing seabed habitat loss and degradation takes effect [UN]• International UN agreement on protection and management of major rivers is concluded and all major rivers of the globe have an internationally supported management plan and national/international commission (EU sponsored set-up and is member of boards of key rivers linked to EU territories, such as Nile, Amazonia, Congo)• New international standards for harbours, ports and shipping are enacted [IMO]• All EU bilateral trade agreements condition market access to elimination of IUU fishing and fulfilment of international fisheries agreements• All maritime surveillance activities of EU agencies and Member States are coordinated and joint surveillance operations in EU and international waters are carried out	<ul style="list-style-type: none">• A robust UN Agreement on areas beyond national jurisdiction (BBNJ) is ratified [UN]• International ban on all activities causing seabed habitat loss and degradation is enacted [UN]• All harmful fisheries subsidies have been eliminated, including fuel and new vessel construction subsidies [WTO]• The EU has identified where international standards for harbours, ports and shipping are missing and leads global efforts for their adoption [IMO]• The EU has concluded ocean governance agreements with all strategic partners (China, USA, Canada, Japan, South-Korea)• The EU supports regional ocean governance as part of its partnership and cooperation agreements in Africa, the Pacific and the Caribbean, as well as in South-East Asia and the Indian Ocean• The EU has concluded circular economy agreements with Mediterranean riparian countries to ban, reuse and recycle plastics• European maritime surveillance data is streamlined: all data collected by EU Member States and EU agencies on all activities at sea is pooled centrally and made accessible to all coastguards' functions at national and EU level



Governance Targets

Supporting Actions

- *EU Council calls for EU Integrated Ocean and Water plan for Europe 2022-2030*
- *New Annual EU Blue Citizens Forum – Participatory*
- *EU Ocean and Water Agency established*
- *EU Institutions to evolve initiatives for oversight*
- *Triennial EU Progress Report & Triennial EU Ocean & Water Summit*
- *International Bilateral Relations + Ocean Governance*

