THE OCEAN COLLECTIVE SUMMIT 2024

Navigating the Blue Economy

Dr. Meri Rosich

CEO of Oceonomy

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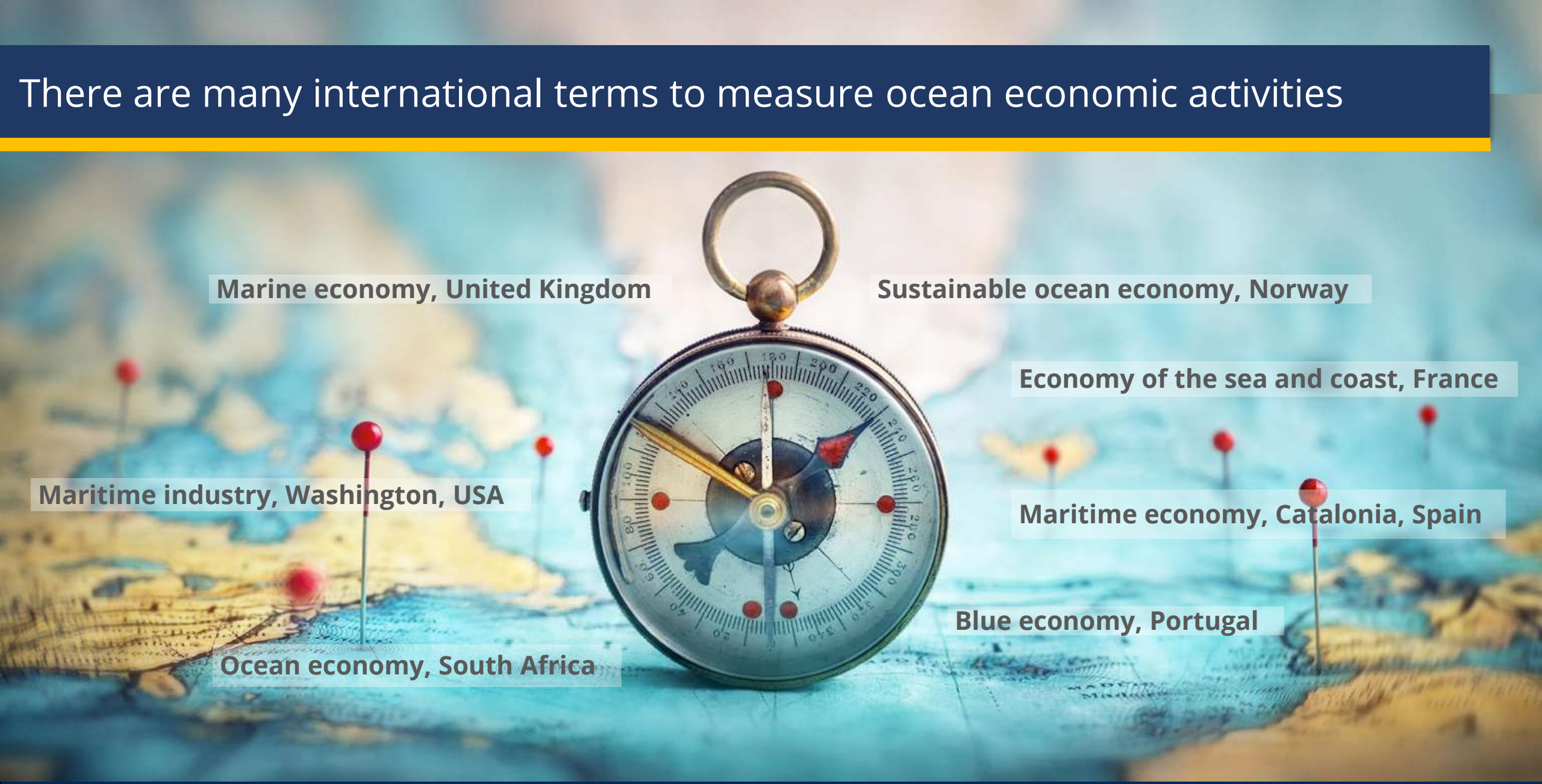
Dr Meri Rosich, OCEONOMY

There are many international terms to measure ocean economic activities



The Blue Economy definition has evolved to include natural capital

Definition:

"The Blue Economy accounts for the ocean-based industries' economic activities, **as well as the assets, goods, and services provided by marine ecosystems.**"

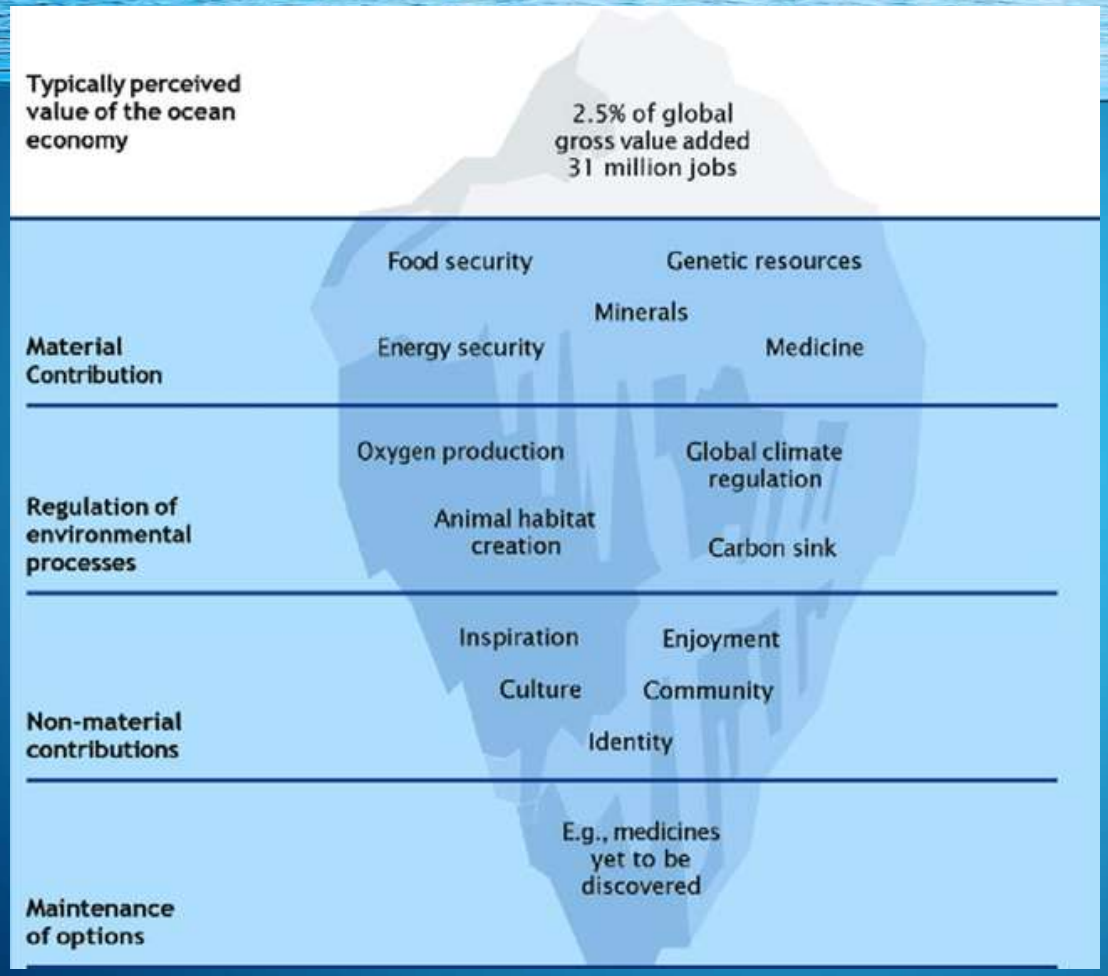
OECD

Organization for Economic Co-operation and Development

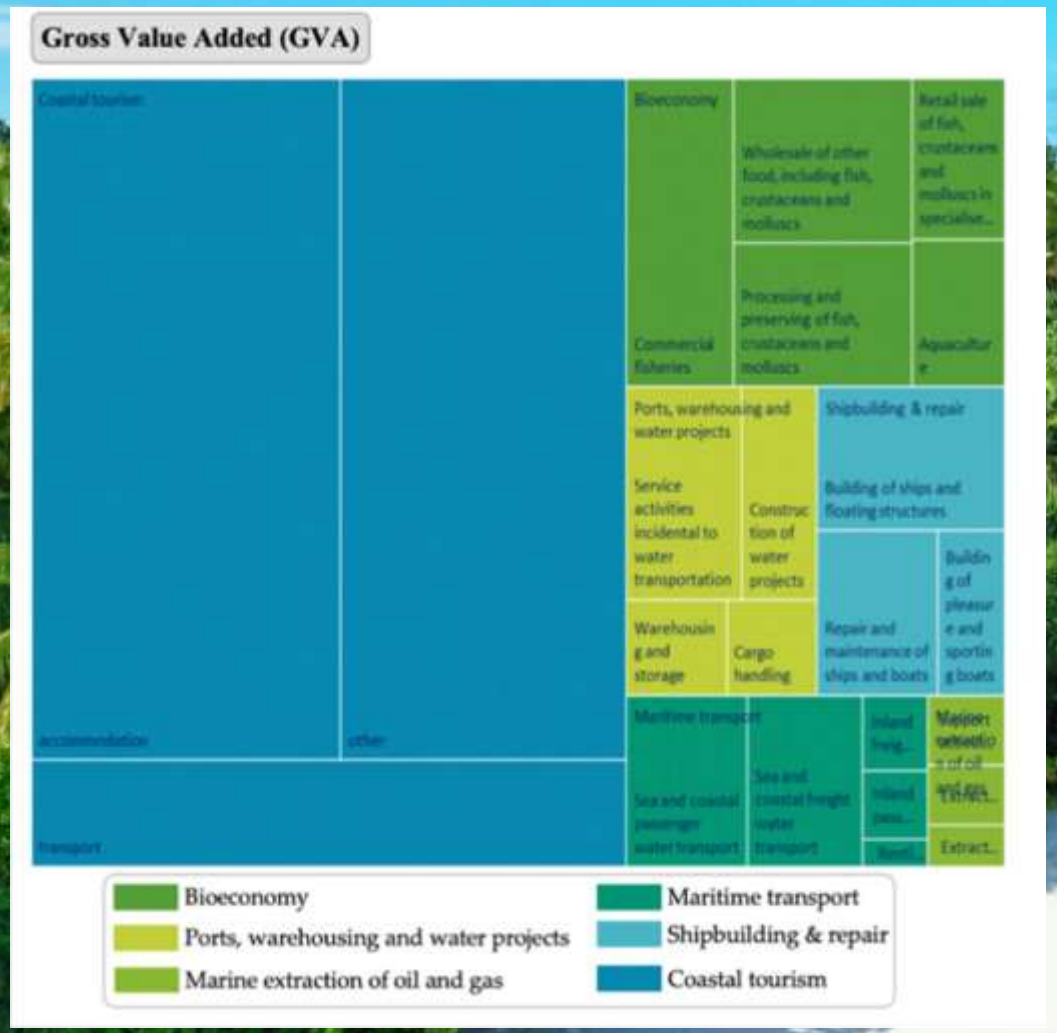
Blue Economy sectors include:

1	Marine fishing
2	Marine aquaculture
3	Maritime passenger transport
4	Maritime freight transport
5	Offshore extraction of crude petroleum and natural gas
6	Marine and seabed mining
7	Offshore industry support activities
8	Processing and preserving of marine fish, crustaceans and molluscs
9	Maritime ship, boat and floating structure building
10	Maritime manufacturing, repair and installation
11	Offshore wind and marine renewable energy
12	Maritime ports and support activities for maritime transport
13	Ocean scientific research and development
14	Marine and coastal tourism

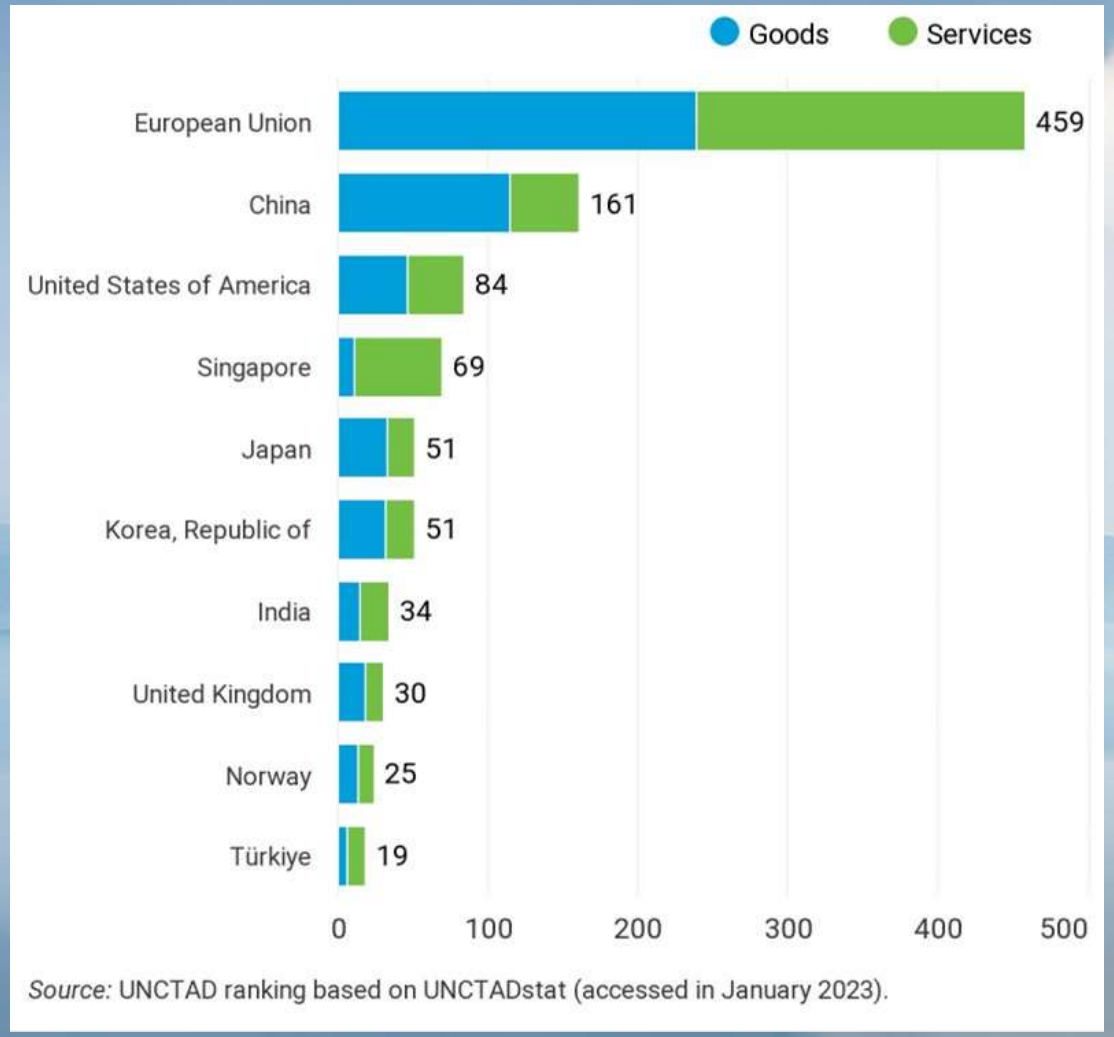
The ocean value is hidden, like an iceberg



The size of the Blue Economy is estimated at $3 - $6 trillion

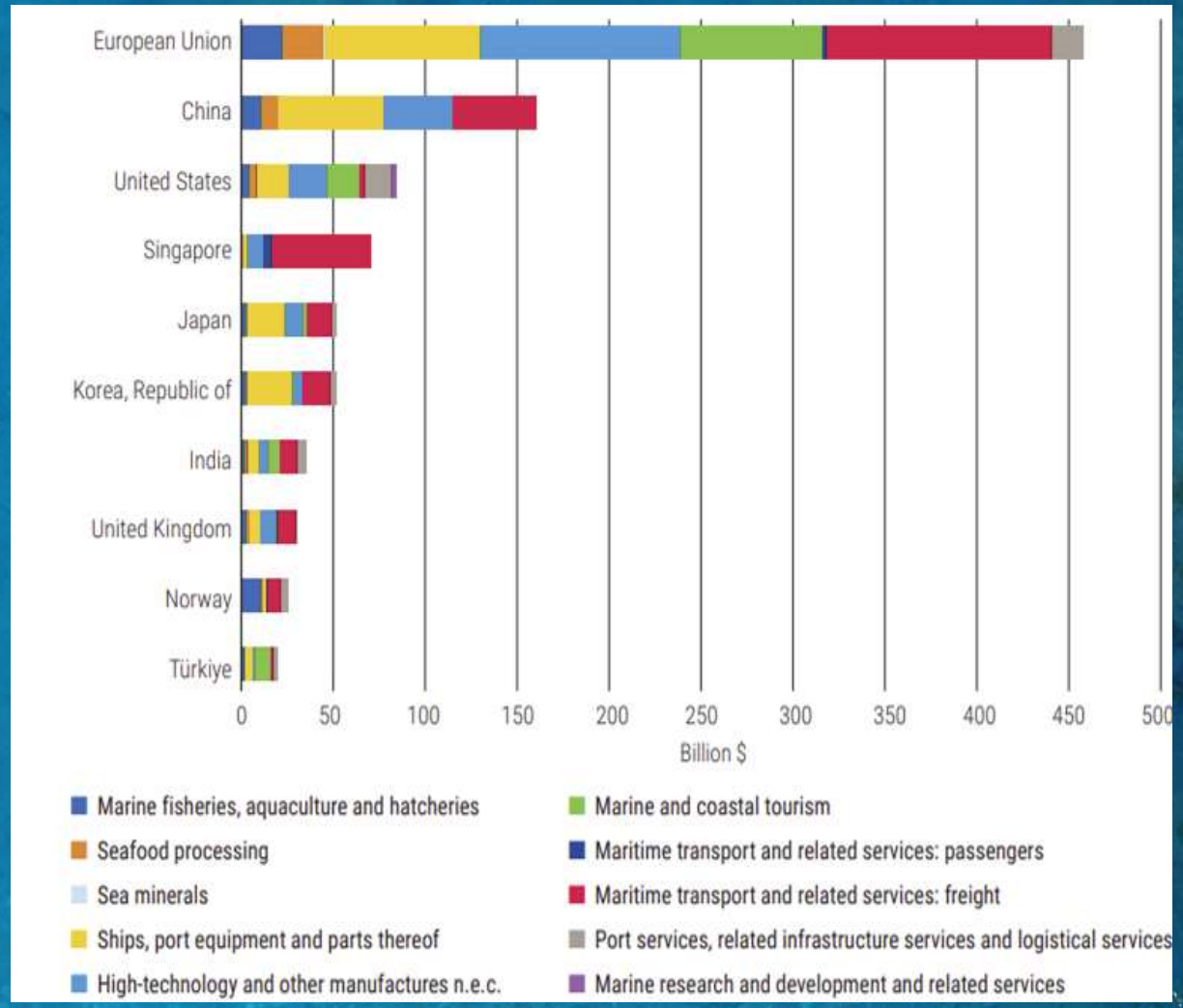


The EU is the top exporter

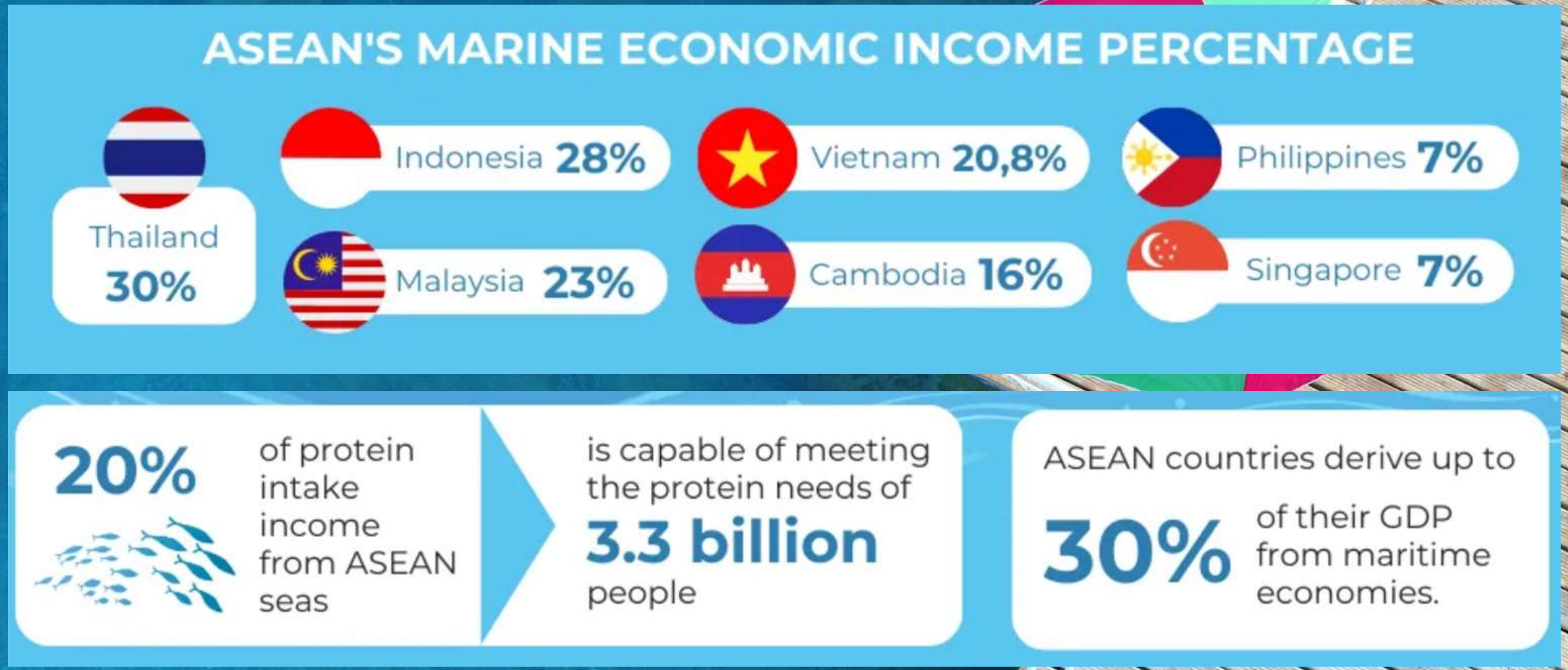


Source: UNCTAD ranking based on UNCTADstat (accessed in January 2023).

The EU exports tech, tourism and freight



The Blue Economy is critical for ASEAN countries



A healthy ocean is critical to meeting all the other SDGs

NO POVERTY
Sustainable ocean growth means sustained growth, which is able to lift and keep people out of poverty

ZERO HUNGER
Farming and fishing sustainably has the potential to produce far more protein than a 2050 population requires

GOOD HEALTH AND WELL-BEING
Apart from being able to provide more nutritious food, a healthy ocean is the recharging point for billions of people

QUALITY EDUCATION
Lifting marginalised coastal communities out of poverty increases their children's chances for a good education

GENDER EQUALITY
Increasing gender equality in the ocean economy would empower millions of women

CLEAN WATER AND SANITATION
Desalination of ocean water provides drinking water to millions of people. Additionally, improving sanitation can increase coastal water quality

AFFORDABLE AND CLEAN ENERGY
Expanding the ocean's almost unlimited renewable energy potential is predicted to contribute 10% of the global electricity production increase by 2050

DECENT WORK AND ECONOMIC GROWTH
Growing the ocean economy sustainably is projected to more than double the current ocean economy

INDUSTRY, INNOVATION AND INFRASTRUCTURE
Constructing low carbon ports and renewable ocean energy will stimulate innovation and create vital infrastructure

REDUCED INEQUALITIES
Granting well-defined ocean access rights and sustainable resource use ensures long-term prosperity of marginalised groups

SUSTAINABLE CITIES AND COMMUNITIES
Constructing blue-green storm protection infrastructure will make cities more sustainable

RESPONSIBLE CONSUMPTION AND PRODUCTION
Solving ocean plastic pollution drives us to build a more circular economy on land

CLIMATE ACTION
Growing ocean industries sustainably can contribute up to one-fifth of greenhouse gas savings towards achieving a 1.5°C future

LIFE ON LAND
Reducing ocean dead zones catalyses land-based reforms towards regenerative precision agriculture

PEACE, JUSTICE & STRONG INSTITUTIONS
In a sustainable ocean economy, a nation's sovereignty over its exclusive economic zone and resources is achieved

PARTNERSHIPS FOR THE GOALS
The ocean is a platform for collaboration and strengthens the global partnership for sustainable development

United Nations Sustainable Development Goal 14 on "Life below water"

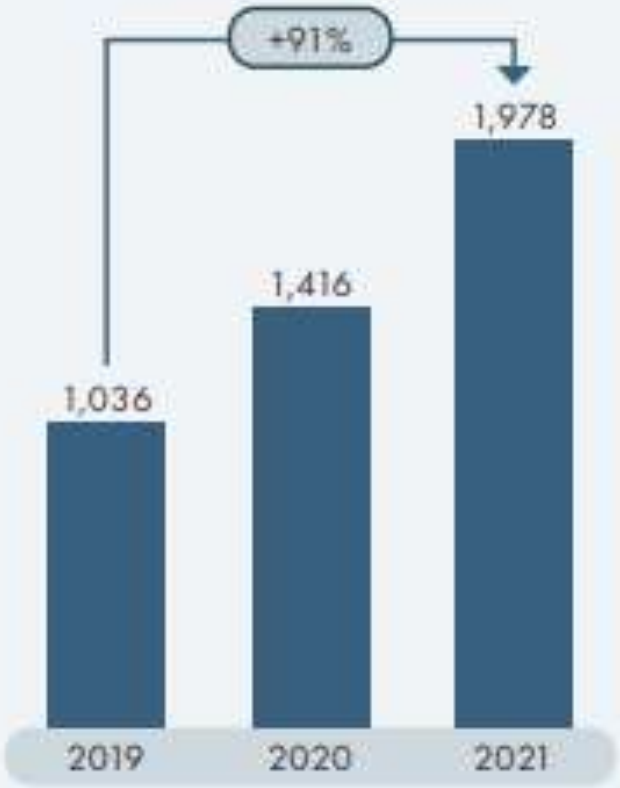
Treaty on the High Seas (2023)

How can we accelerate the blue economy climate adaptation?

Ocean driven startups are growing

Overall impact-driven ocean start-up pipeline

start-ups identified

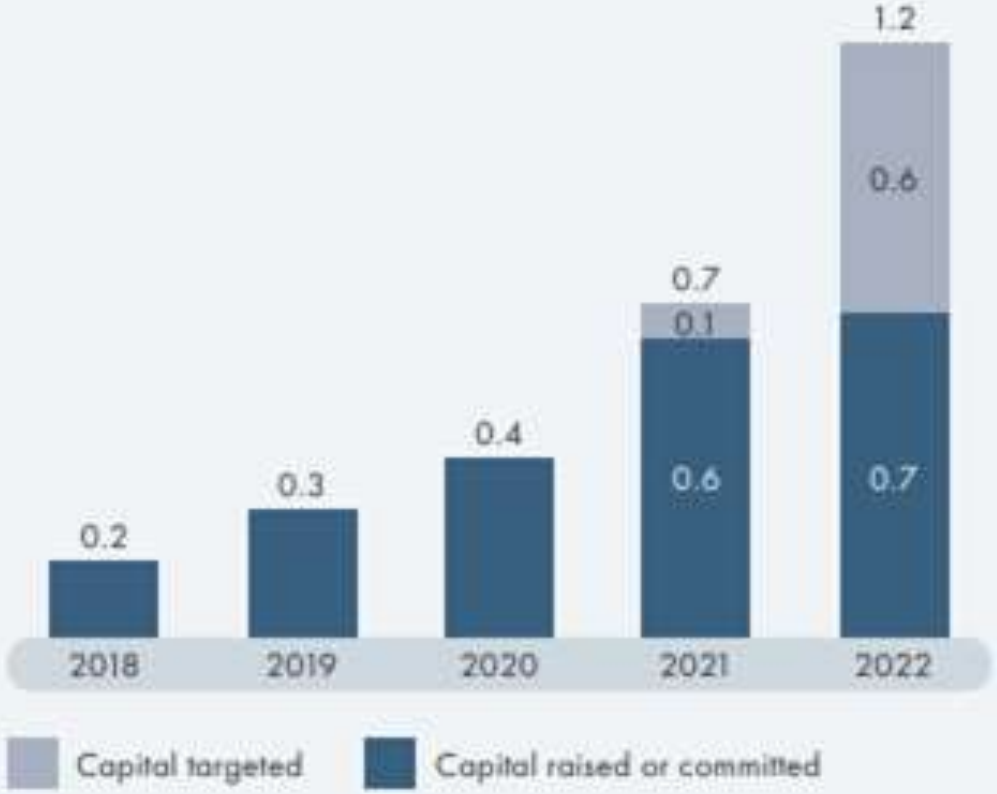


Global distribution of impact-driven ocean start-up pipeline

Distribution of start-ups – based on 2020 data

1000 Ocean Startups and prepared by SYSTEMIQ, with the generous support of Builders Vision, SWEN Capital Partners and the GEOS UN Decade Program.

The amount of capital mobilized is growing every year



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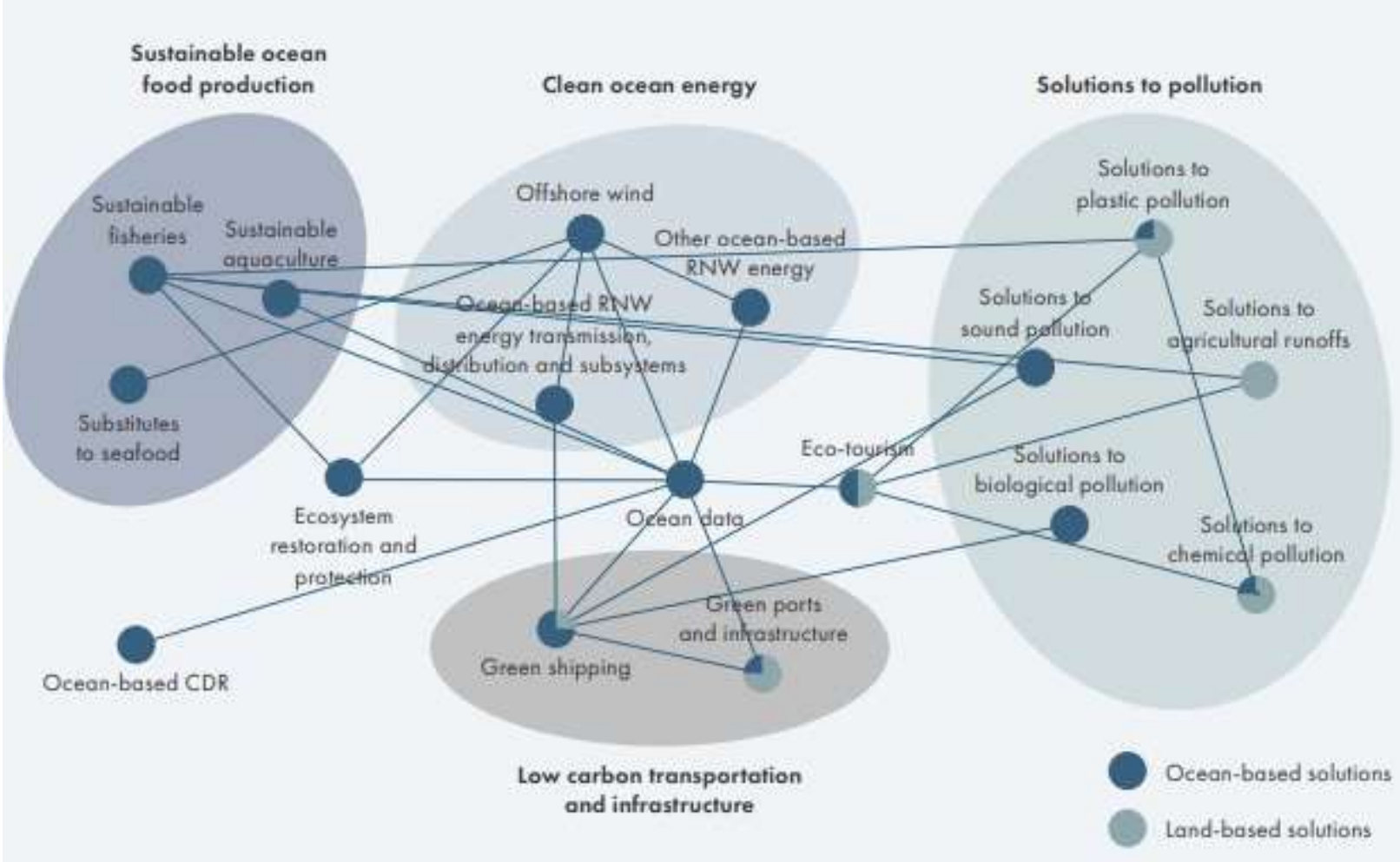
The innovation ecosystem in the sustainable blue economy

Across 17 sectors



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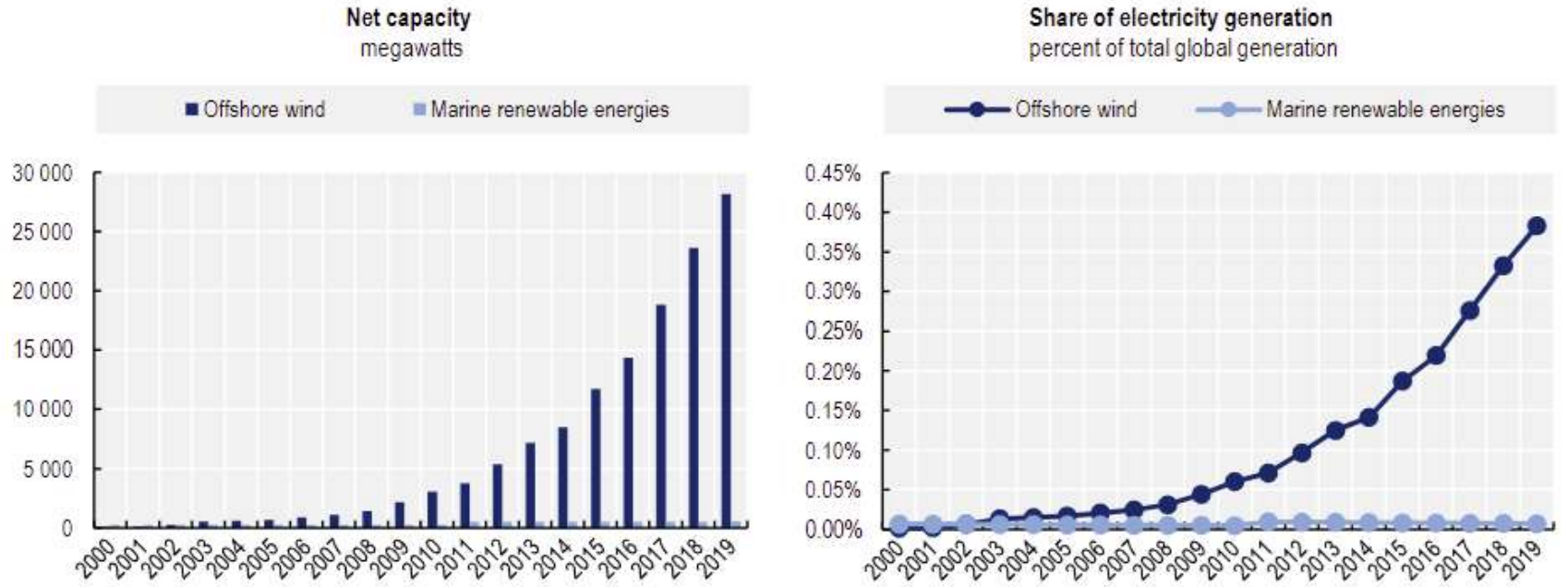
Ocean renewable electricity generation

Is dominated by offshore wind and growing fast

Global offshore wind and marine renewable energy electricity generation capacity in megawatts and as a percentage of total generation capacity from all resource types



Note: Marine renewable energy is labelled "marine energy" in IRENA's taxonomy. Total generation capacity is calculated by summing the capacity of all technology types, including fossil fuels, in each year.

Source: OECD calculations using data from IRENA (2020) *IRENA Renewable Energy Statistics 2020*

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What are the most critical areas to adapt?

There are interconnected drivers that push us towards a tipping point

Inter-connected drivers

1. Atmospheric/ocean warming - **greenhouse gases**
2. Risk-intensifying land use – **agriculture & water**
3. Lack of information – **data monitoring**
4. Substances harmful to life – **pollution**

Critical sectors

Energy & transport
Buildings
Agriculture

Greentech transforming energy and transport

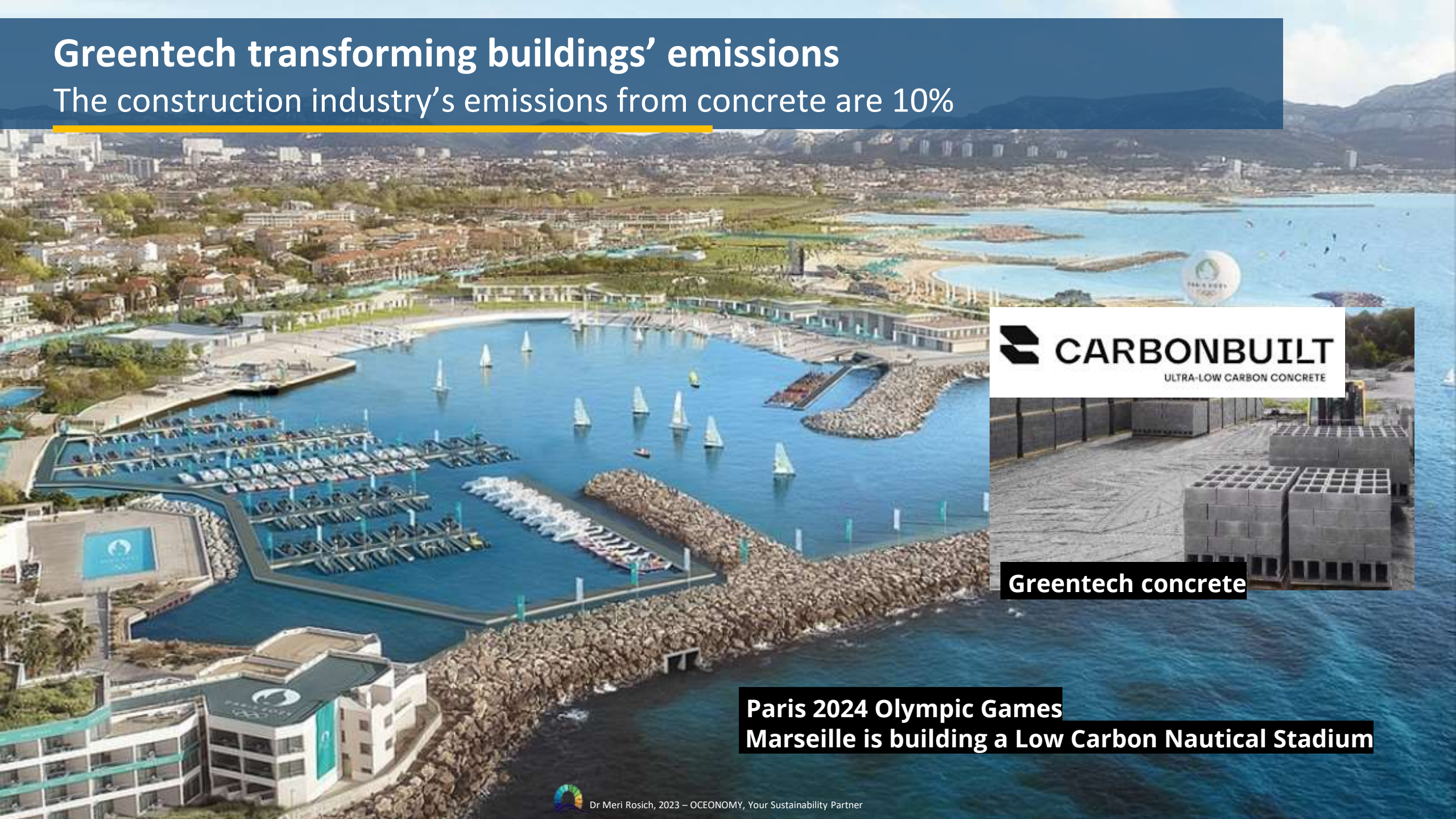
Touchwind

VDL, NIDEC, TU Delft, We4Ce, Enersea, EJ Projects, Mitsui O.S.K. Lines (MOL), the Netherlands Enterprise Agency (RVO) and the Dutch test centre MARIN

The global shipping industry is on the path to decarbonization

Greentech transforming buildings' emissions

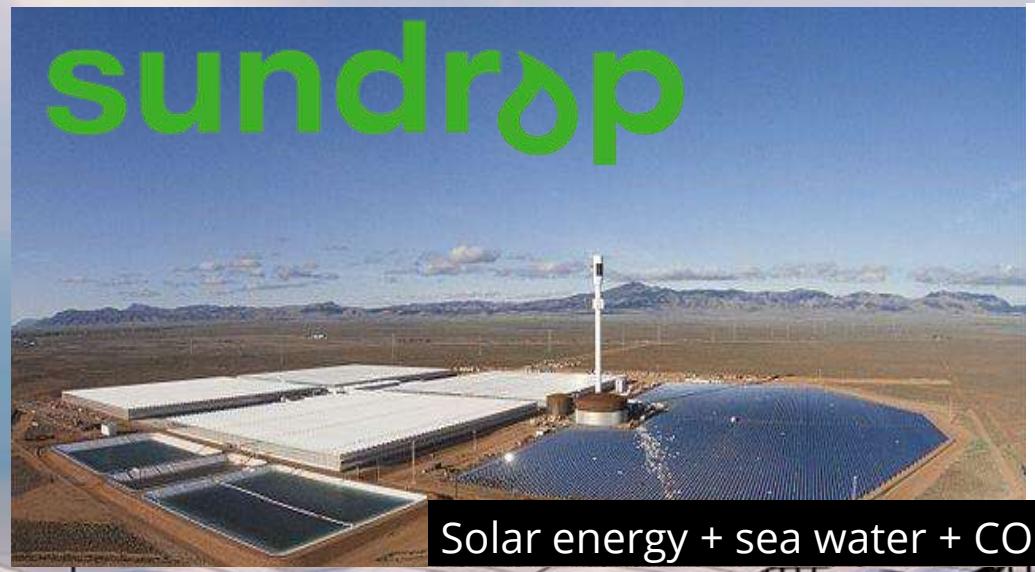
The construction industry's emissions from concrete are 10%



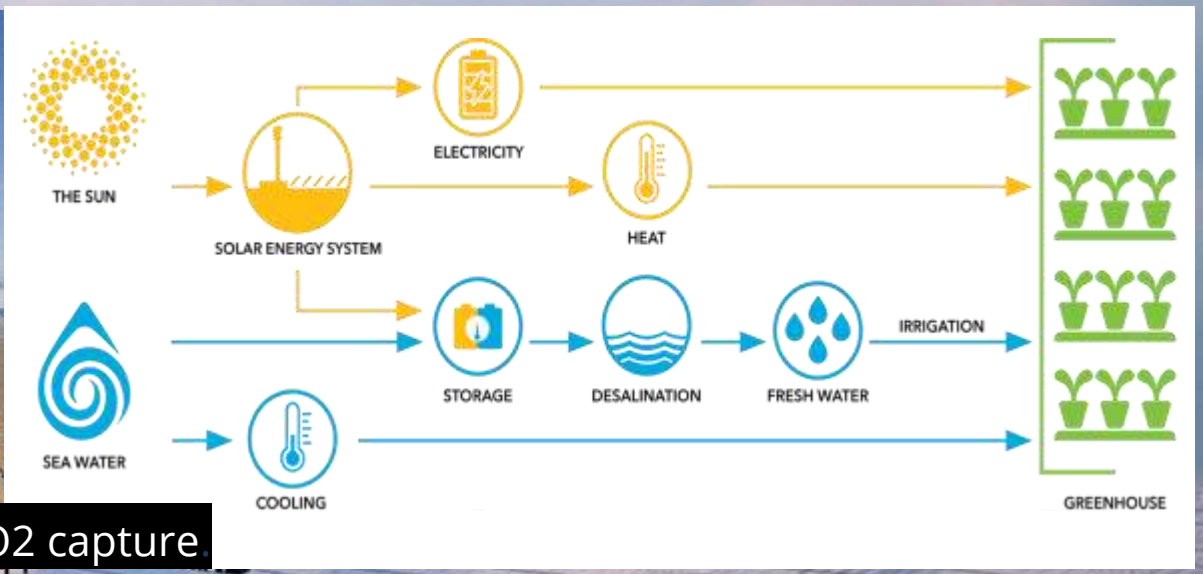
Greentech concrete

Paris 2024 Olympic Games
Marseille is building a Low Carbon Nautical Stadium

Transforming agriculture and water

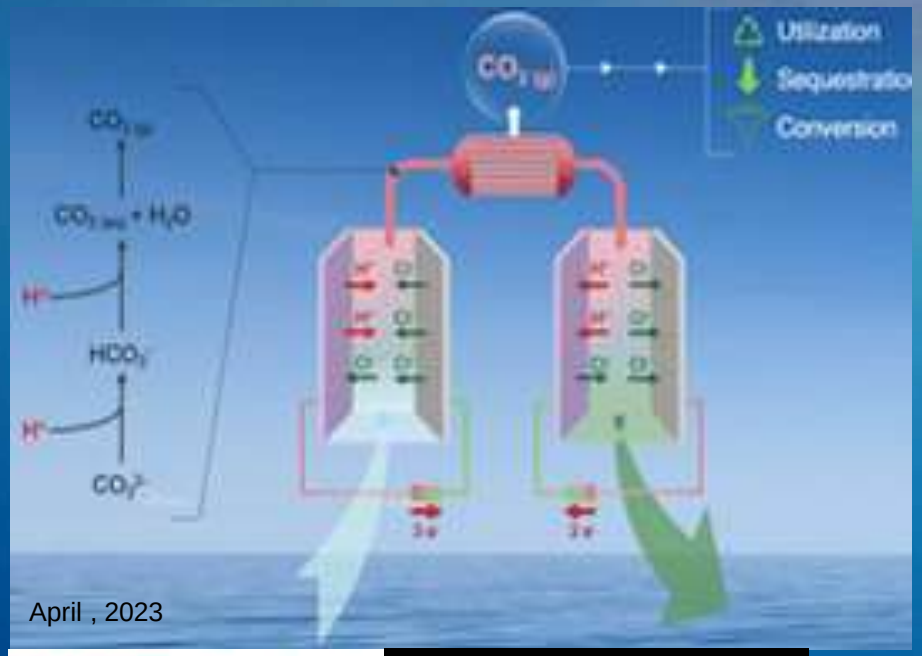


Solar energy + sea water + CO2 capture



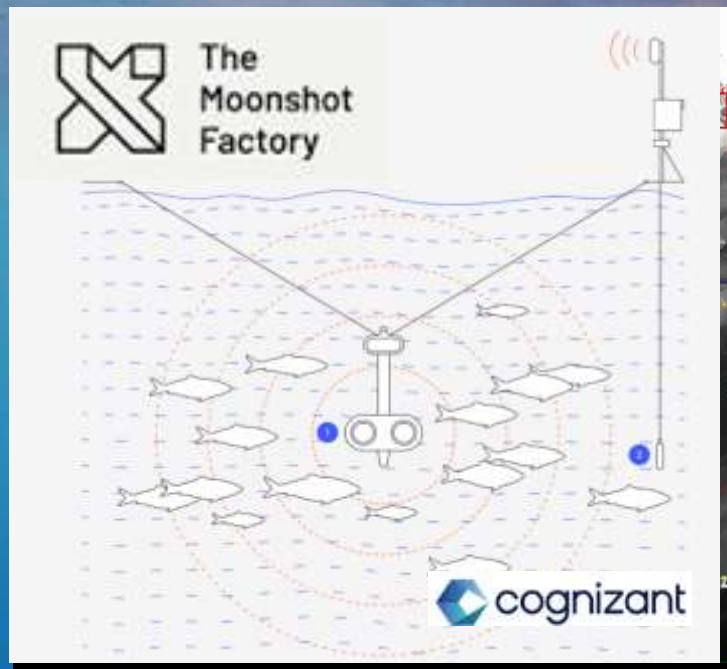
Accelerating innovation with data

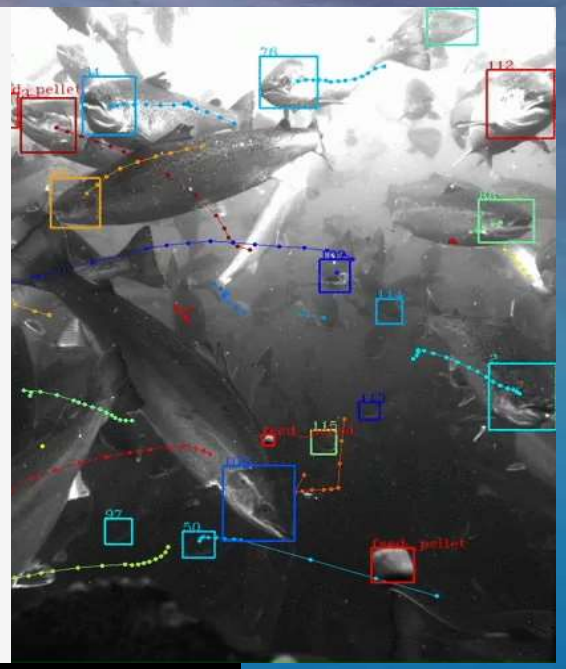
CO2 ocean removal and bringing visibility to ocean ecosystems



Massachusetts Institute of Technology

Ocean CO2 removal





TIDAL X: Ai gives the oceans eyes and voice

Future advances that can accelerate Blue Economy sustainability

Trends

Data and AI
New materials
Food systems

Weather-, climate- and water-related sciences support the achievement of many of the SDGs

Future outlook

Close the data gap
Fund and Scale faster
Local communities-led

WAVES OF CHANGE

Uniting Business in Ocean Conservation

THANK YOU