

# Mission Clean Oceans

How can science and innovation tackle ocean pollution?

Setting the Scene

Sigi Gruber Head of Unit Healthy Oceans & Seas DG Research and Innovation



European Commission



# RESEARCH AND INNOVATION HELPING TO ACHIEVE HEALTHY, CLEAN OCEANS AND SEAS BY 2030

#### WHAT IS THE EU DOING TO SUPPORT INDUSTRY IN THE TRANSITION?



The EU is providing funding for research into feedstock, product designs and business models, collection and sorting systems, mechanical and chemical recycling, composting and biodegradability as part of the transition to a circular economy for plastics.

Horizon 2020 has provided OVER 250 MILLION EUROS to finance research and innovation in areas related to the EU Plastics Strategy.

#### €100 MILLION

to be spent during the remainder of Horizon 2020 financing the development of smarter and more recyclable plastics materials, and making processes more efficient. The Work Programme 2018-2020 includes funding calls for pilots for CIRCULAR SYSTEMS IN PLASTICS, developing frameworks for monitoring and assessment, and 'smart' plastics materials.

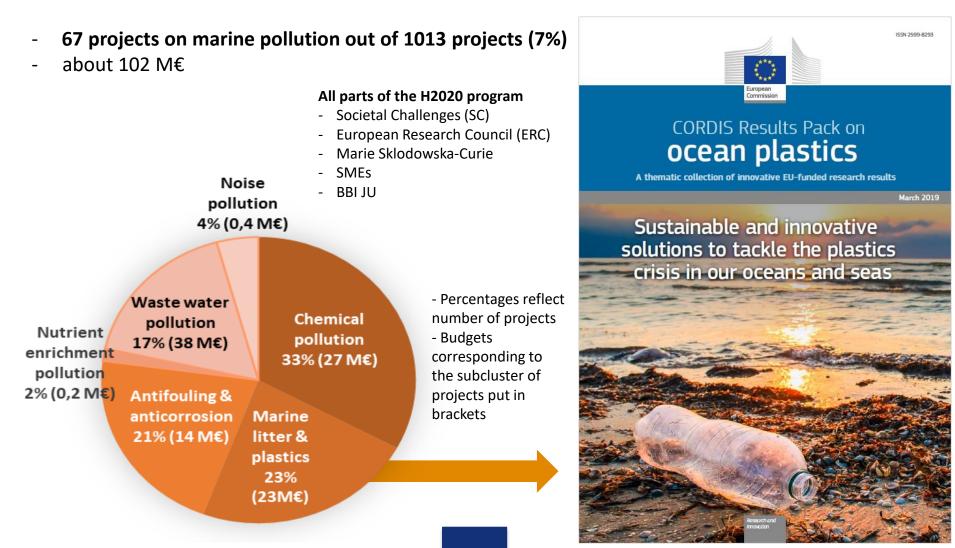
A Strategic Research and Innovation Agenda on plastics is being developed to provide guidance for research and innovation funding after 2020. 5.5 BILLION EUROS of Cohesion Funds have been dedicated to improve waste management across Europe.





### DG RTD C4

#### Portfolio analysis on all H2020 marine/maritime projects 2014-2019



#### Marine litter pollution



#### DG RTD C4



#### FLOATING BOOMS - MARINE LITTER COLLECTION AND RECOVERY SYSTEM



H2020 Blue Growth 2017 call Innovation Action 01-11-2017 – 31-10-2021

## CLEAN IS THE AIM

CLAIM will use innovation to reduce the amount and impact of plastic pollution!

- CLAIM will power 5 new marine cleaning technologies, to innovate the ways in which we clean our seas and oceans.
- Data modelling will produce maps of concentrations of macro and micro litter, while ecosystem service approaches will identify areas where intervention has the greatest potential to secure impact on human well-being.

#### Marine litter pollution



### DG RTD C4





H2020 Blue Growth 2017 call Innovation Action 01-01-2018 – 31-12-2021

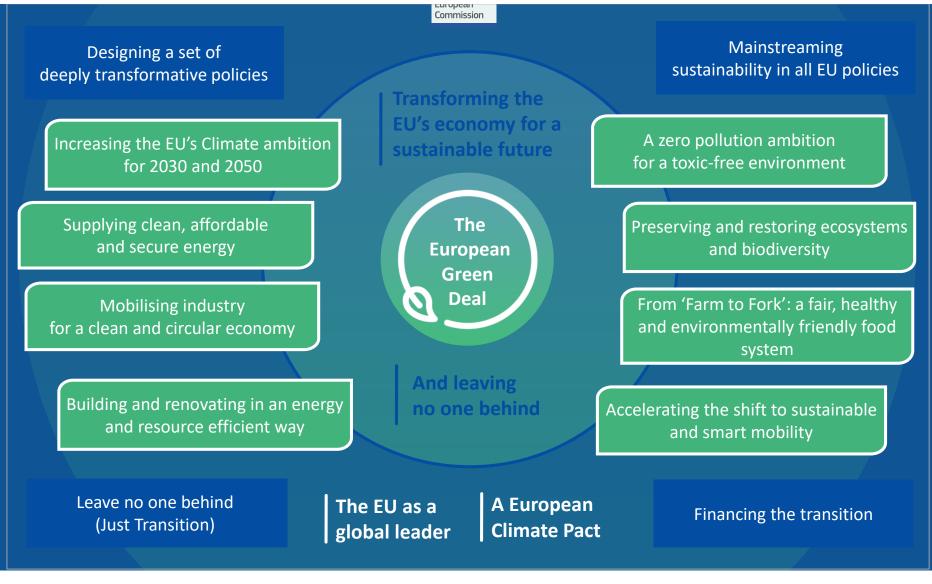
Jellyfish mucus efficiently captures nanoparticles.

Euronews: Could jellyfish be the answer to fighting ocean pollution? - developing a prototype of a filter for treatment plants, using jellyfish mucus

'**GoJelly – a gelatinous solution to plastic pollution**' is a Eu H2020 funded project where we will use jellyfish as source of innovative solutions to combat marine litter.



European Commission



Commission



European Commission

- Farm to Fork Strategy in Spring 2020
- Measures, including legislative, to significantly reduce the use of chemical pesticides, fertilizers and antibiotics
- Examination of the draft national strategic plans, to meet the ambitions of the European Green Deal and the Farm to Fork Strategy in 2020/2021

From 'Farm to Fork': a fair, healthy and environmentally friendly food system

Designing a set of deeply transformative policies

Mainstreaming sustainability in all EU policies

Commission



European Commission

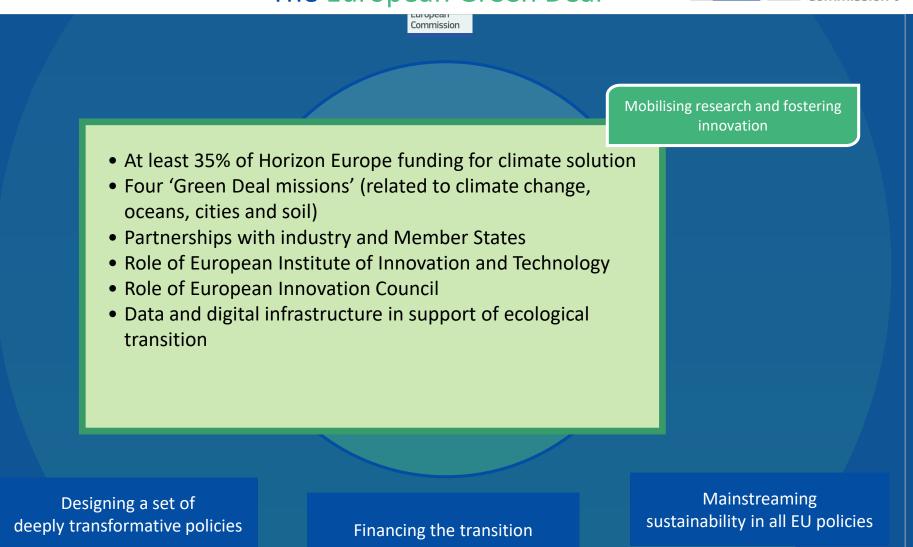
Preserving and restoring ecosystems and biodiversity

- EU Biodiversity Strategy for 2030 in March 2020
- Follow up with concrete measures in 2021 to address the main drivers of biodiversity loss
- A new EU Forest Strategy in 2020
- Measures to support deforestation-free value chains from 2020

Designing a set of deeply transformative policies

Mainstreaming sustainability in all EU policies



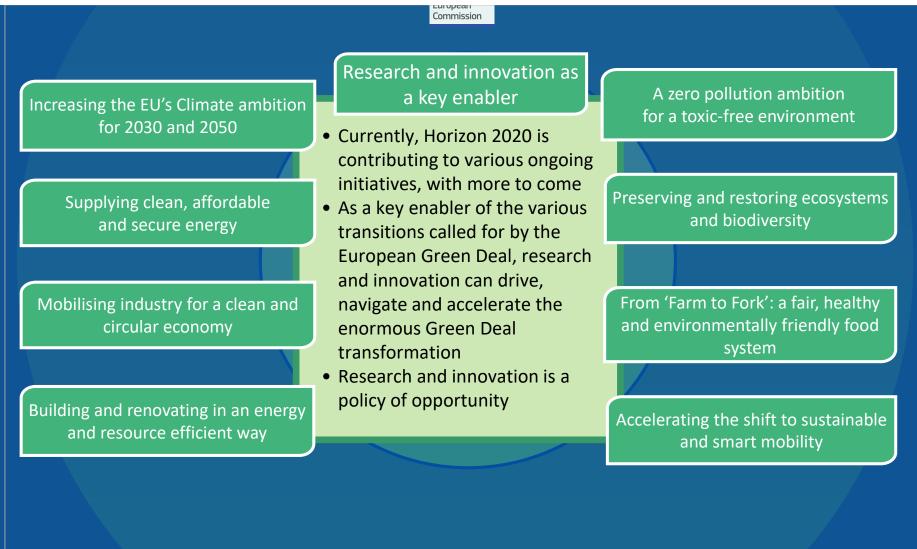


European





European Commission



#### Horizon Europe



Horizon Europe

MISSION AREA HEALTHY OCEANS, SEAS, COASTAL AND INLAND WATERS

#HorizonEU #MissionOcean





Horizon Europe proposed Research and innovation missions:

- Strong visibility and impact
- Achieve a bold, inspirational and measurable goal within a set timeframe
- Find solutions to some of the major challenges faced by European citizens





Missions are an entirely new approach based on portfolios of actions working towards broadly defined goals, and should not be confused with existing methods and instruments i.e. missions are not the same as

- R&I Programmes
- R&I Partnerships
- Focus Areas from Horizon 2020
- Single projects or topics
- Horizon Europe Clusters



## **Mission Board**



European Commission



Pascal LAMY (Chair)



Peter HEFFERNAN



Maria Cristina PEDICCHIO



Antidia CITORES



Alan DEIDUN



Lowri EVANS



Gesine MEISSNER



François GALGANI



Valentin MOLDOVEANU



European Commission



Lea KAUPPI



Tiago PITTA E CUNHA



Boyan

SLAT