3rd High-Level Industry-Science-Government Dialogue on ‘Atlantic Interactions’

National Library, Praia
Santiago Island, Cape Verde
7 - 8 May 2018
Human cumulative impacts on 20 types of oceanic ecosystems - alarming situation

(Halpern et al., 2008)
Ocean Health Index shows problems and opportunities (not used resources or ecosystem services)
More or less evident problems

(Revista ComCiência, 2016)
Climate changes have global and long-term effects

(a) Change in average surface temperature (1986–2005 to 2081–2100)

(b) Change in average precipitation (1986–2005 to 2081–2100)

IPCC, 5th Assessment Report
Dead zones are a growing and widespread problem

Diaz & Rosemberg (2008)
Marine litter as an emergent and complex problem
Land-based sources and Source-to-Sea (S2S) approach

(Jambeck et al., 2015)
Different compartments, pathways and impacts

Esquema: Douglas Vieira da Silva
Litter tells us different stories...
Alarming estimates

PLASTICS PRODUCTION

2014
311 MT

2050
1,124 MT

RATIO OF PLASTICS TO FISH IN THE OCEAN\(^1\) (BY WEIGHT)

1:5

>1:1

Ellen MacArthur Foundation (2016)
World reaction
Knowledge

- Assessment of sources, sinks and effects
- Identify strategies to combat marine litter
- Develop technology to prevent and remove marine litter - product design to waste management (S2S)
- Monitoring methods

Actions

- Elaborate a Marine Litter Plan for the Atlantic
- Define reduction targets
- Capacity building
- Communication - education and outreach
- Observatory of marine litter