“Ai o mar que nos dilata sonhos e nos sufoca desejos!”

(“The sea expanding our dreams and suffocating our wishes!”)

Jorge Barbosa, O mar
GLOBAL CHALLENGES

- Understanding, predicting and adapting to Climate Change
- Understanding Atlantic ocean for a Healthy & Productive Ocean
- Clean, Cheap and Secure Energy for All

UN Sustainable Development Goals

- 11 Sustainable Cities and Communities
- 13 Climate Action
- 2 Zero Hunger
- 14 Life below Water
- 7 Affordable and Clean Energy
- 17 Partnerships For the Goals
FROM FLORIANOPOLIS TO CAPE VERDE

AIR Centre Implementation team

1. **Florianopolis Declaration**
   - Nov. 17
   - AIR Centre ExCo SteeCo
   - 1st version AIR Centre Scientific Program & Cross-cutting activities
   - AD AIR Centre constitution, Azores HQ

2. **Praia Declaration**
   - May 18

3. **Canary Islands Meeting**
   - Nov. 18

**Expansion of External Ecosystem**

- 24 ongoing projects
- 22 project leads
- 5 cross-cutting activities in preparation

**Consolidation of Internal AIR Centre Ecosystem**: 8 countries, 4 observers, 35 partners from R&D, industry and administration
INTEGRATING ATLANTIC SPACE, OCEAN, ATMOSPHERE, CLIMATE-ENERGY AND DATA SCIENCE

- Marine Resources & Biodiversity
- Healthy & Clean Ocean
- From Outer Space to Deep Ocean: Technology for observation and data integration
- Mitigation & Adaptation Climate Change
- Sustainable Energy Systems & Global Energy Interconnections
- Data Science, artificial intelligence, learning systems for climate issues and atmosphere dynamics

AIR_DataNET - Atlantic Data Cube, Atlantic GEOSS
Atlantic Research Infrastructures
Knowledge for all
ECOSYSTEM VALORIZATION

MARINE RESOURCES & BIODIVERSITY

Credit: Atlantis Subsea Farming/Akva

Healthy & Clean Ocean

- Offshore Aquaculture

- Plastics & Pollutants
SYSTEMS INTEGRATION,
FROM OUTER SPACE TO DEEP OCEAN

Global Ocean Observing System Graphic (http://www.unfalumni.org/happy-world-oceans-day/)
MITIGATION & ADAPTATION
TO CLIMATE CHANGE

- Resilient Cities & Coastal areas
- Invasive species & loss of biodiversity
GLOBAL ENERGY INTERCONNECTIONS

Cheap, Clean & Secure Energy for 1B People
MoU

- Foundation for Science and Technology (FCT), PT
- National Foundation for Scientific Computation (FCCN), PT
- Barcelona Supercomputing Center (BCN-CNS), SP
- University of Minho (UMinho), PT
- AIR Centre

Creation of AIR Centre Data Intelligence Network (AIR_DataNet)
AIR_DATANET
ATLANTIC RESEARCH INFRASTRUCTURES
KNOWLEDGE FOR ALL

Credit: Ciência Viva
FROM CAPE VERDE TO CANARY ISLANDS

Florianopolis Declaration Nov. 17

Praia Declaration May 18

Canary Islands Meeting Nov. 18

Intergovernmental Scientific Organization AIR Centre

AIR Centre Implementation team

AIR Centre ExCO SteeCo

AIR Centre AD AIR Centre

AIR Staff

Agreeing on the AIR Centre Statutes

Roadmaps for the Workplan (1st versions)

Business model and funding

Staff recruitment
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THANK YOU
• **6 megacities in the Atlantic**, ( > 54 Mill. people 2016), Global Impact 1 B People (est. 2050)

• Shore length 111,866km, Atlantic surface 106,460,000 km²

• More than 80 countries with a coastline on Atlantic, more than 40 islands in the Atlantic Ocean

• **Atlantic African countries** > 1,688 $ billions nom. GDP (2016)
  **Atlantic South American countries** > 5,775 $ billions nom. GDP (2017)
  **Atlantic European countries** > 16,150 $ billions nom. GDP (2018)
  **Atlantic Cont. North & Central America** > 23,674 $ billions nom. GDP (2018)
8 governments committed
4 observing countries

35 partners from R&D, Industry and Public Administration

Scientific program – 24 identified ongoing projects + 22 project leads

Cross-cutting Work Plan - 3 program + 2 in preparations