North-South and Cross-sector cooperation for Space Exploration

MAGDA COCCO  VdA Partner
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1. SPACE COOPERATION

"States are free to determine all aspects of their participation in international cooperation in the exploration and use of outer space on an equitable and mutually acceptable basis”

UNOOSA Space Benefit Declaration

International cooperation is to be carried out for the benefit and in the interest of all States, irrespective of their degree of development and with particular account to be taken of the needs of developing countries

All States should contribute to promoting and fostering international cooperation on an equitable and mutually acceptable basis
2. A NEW PHASE IN SPACE COOPERATION

- New actors
- New global and regional demands
- New fields of cooperation
- New context for cross-sector interaction
2. A NEW PHASE IN SPACE COOPERATION

NEW ACTORS
Not all Southern countries are benefiting of the space dividend but there is a growing interest and space activity in the South.
### NEW AREAS OF COOPERATION

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2. A NEW PHASE IN SPACE COOPERATION

CROSS-SECTOR COOPERATION

Both public and private entities in the various relevant sectors must be included in the conversation and are active in space, in the context of their specific services and in a 360° perspective.

Need to ensure collaboration and development of the synergies arising from the interaction between the various sectors and industries.

Fragmented and compartmentalised views of space lead to a fragmented and compartmentalised space market.
2. A NEW PHASE IN SPACE COOPERATION

Is the new space age a threat to cooperation? Why cooperate?

1. Cost reduction
2. Added value workforce
3. Diplomatic asset
4. Tool against social and economic divides
5. Global problems / Global Interventions
   Global Solutions
6. Tool for innovation
7. Catching up to technology
8. …
3. NEW PARADIGM OF COOPERATION - ATLANTIC INTERACTIONS

What is it?
Who’s in it?
What for?
3. NEW PARADIGM OF COOPERATION – AIR CENTER

THE ATLANTIC INTERACTIONS

Is built on the success of existing international framework agreements such as the 2013 “Galway Statement on Atlantic Ocean Cooperation” between the European Union, the United States and Canada, and supports the objectives of ongoing initiatives such as the Atlantic Ocean Research Alliance (AORA).

It is supported by decades of efforts by Atlantic countries to foster scientific cooperation and creates synergies with existing public and private initiatives at national, European and international level.
3. NEW PARADIGMS OF COOPERATION – AIR CENTER

Throughout 2016 and 2017, a series of workshops on Atlantic Interactions were held in a number of cities around the Atlantic, as well as in other locations - Bangalore (India), Luanda (Angola) and Abuja (Nigeria), that have mobilized researches worldwide towards the development of a new science and technology agenda for an integrative approach to the Atlantic.
3. NEW PARADIGMS OF COOPERATION – AIR CENTER

THE ATLANTIC INTERACTIONS SCIENCE AND TECHNOLOGY AGENDA

A holistic and integrative approach to Space, Atmosphere, Climate-Energy, Oceans and Data thematic areas in the Atlantic

- Blue economy
- Climate Observation
- Sea/space knowledge
- New space industries
- New energy sources
- New awareness of space culture and impact
- Earth Observation
- Deep-sea exploration

Strong International Cooperation
Atlantic Interactions

A Science and Technology Agenda
for an integrative approach to the Atlantic:

Integrating Space, Climate, Oceans and Data Sciences through North-South / South-North Cooperation

Towards the
Atlantic International Research Center (AIR Center)

A collaborative project developed by a group of international experts, promoted by the Portuguese Foundation for Science and Technology (FCT) with the support of other international organizations and a group of national and international partners.

Portuguese Foundation for Science and Technology
[Portuguese para Ciência e Tecnologia, FCT, Portugal]
July 2023
3. NEW PARADIGMS OF COOPERATION – AIR CENTER
3. NEW PARADIGMS OF COOPERATION – AIR CENTER

• Promote a new holistic and integrative approach to knowledge on space, climate-energy, oceans and data scientific areas and related issues in the Atlantic (…)
• Foster an inclusive approach to science, technology and economic development (…)
• Establish a network of research sites in various Atlantic islands in north and south Atlantic, in close interaction with research, academic and business organizations worldwide, including those across both south and north Atlantic countries, AS WELL AS NON-ATLANTIC COUNTRIES
• Facilitate the access to space data from the unique position of the Azores (…)
• Stimulate the test of new renewable energy sources and their integration in smart networks in islands environments (…)
• Promote new research in deep-sea (…)
• Facilitate the establishment and use of new mega-sets of data on climate, atmosphere, earth, ocean and energy related themes (…)
• (…) contribute for the understanding and risk mitigation of the derived natural hazards, namely earthquakes, volcanism, tsunamis;
• Promote and foster the education and knowledge agenda “knowledge for Space – Space for knowledge” (…)

(governance)
A High Level Meeting was held in Terceira Island, Azores, in April 2017. This meeting was aimed at addressing the need to further study and conduct research in Atlantic regions. This was a major milestone for the development of the Atlantic International Research Center (AIR Center), with headquarters in the Azores.

Discussion on the R&D Agenda on “Atlantic Interactions” and implementation of the Atlantic International Research Center (AIR Center) - MoU
3. NEW PARADIGMS OF COOPERATION – AIR CENTER
4. TOWARDS THE SDG

An holistic and integrative approach to Space, Atmosphere, Climate-Energy, Oceans and Data thematic areas in the Atlantic can tackle several Sustainable Development Goals:

**End hunger**, achieve food security and improved nutrition and promote sustainable agriculture

**Ensure access** to affordable, reliable, sustainable and modern energy for all

**Make cities** and **human settlements inclusive, safe, resilient and sustainable**,

**Take urgent action to combat climate** change and its impacts

**Conserve and sustainably use the** oceans, seas and marine resources.

strengthen the means of implementation and revitalize the **global partnership for sustainable Development**
4. TOWARDS THE SDG

The participants to the Forum:

(...)

7. Emphasize that, in order to strengthen socio-economic development, an integrated approach is required among the space sector and other sectors, including environment and climate change, health, water, information and communication technology, and management of resources, to better understand and meet the needs of end-users and society at large;
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