



## **6<sup>th</sup> HIGH-LEVEL INDUSTRY-SCIENCE-GOVERNMENT DIALOGUE ON ATLANTIC INTERACTIONS**

### **ALL-ATLANTIC SUMMIT ON INNOVATION FOR SUSTAINABLE MARINE DEVELOPMENT AND THE BLUE ECONOMY: FOSTERING ECONOMIC RECOVERY IN A POST-PANDEMIC WORLD**

**October 5-9, 2020**

The All-Atlantic Summit will be a five-day event, co-organized by Penn State's Alliance for Education, Science, Engineering and Design with Africa (AESEDA) and the AIR Centre. It shall bring together high-level representation from member nations of the AIR Centre, international scientific research community and industry partners to discuss ideas, initiatives and projects around AIR Centre's thematic missions as well as supporting cross-cutting activities such as capacity building, infrastructure sharing and Space/Ocean literacy. Stakeholders shall convene for a Ministerial meeting on the first day of the event, and scientific and technology thematic work sessions on the following four days to launch a new phase of strategic cooperation across Space, Atmosphere, Ocean, Climate, Energy and Data Science that address Global Challenges and advance UN Sustainable Development Goals (SDGs) through innovation for inclusive ocean economies in the Atlantic region.

The AIR Centre is an internationally networked organization, oriented to foster job creation and knowledge-driven sustainable economic development in Atlantic regions. It addresses and integrates space, climate, earth, ocean, energy and data sciences and promotes north-south/south-north/north-north/south-south cooperation in alignment with national/regional priorities and global challenges such as the UN 2030 Agenda for Sustainable Development, the Decade of Ocean Science for Sustainable Development (2021-2030), the Paris Agreement and the Sendai Framework for Disaster Risk Reduction.

The AIR Centre is all about advancing science and technology in a transformative scale in the Atlantic region. It builds on and expands the abilities of individual organizations, and it advances selected scientific and technological domains and their constellations of actors towards shared targets. For that, it recruits and orchestrates a complex web of organizations and individuals to deliver change and social impact through concrete actions.

This complexity comes from the AIR Centre's unique multidimensional mission-oriented, demand-driven, problem-solving approach, which integrates various sciences (space, ocean, earth, climate, energy, and data sciences), includes different stakeholders (government, academia, industry, and civil society), encompasses diverse geographies, cultures and technology readiness levels (American, African, European countries and small island states or



territories in the Atlantic region), and fully accommodates both local priorities and global challenges. AIR Centre activities use the power of “user-driven open innovation platforms” across government, industry, academia, NGO and community sectors, with a focus on:

- Full value-chain collaborative science and economic mechanisms to inform, implement and influence policies for sustainable and inclusive blue economic development;
- Innovatively funded public-private blue economy development mechanisms for industrial empowerment and development through informed management,
- Technological innovation and impact in the new space, earth observation, robotics, data science and earth-ocean systems;
- Community innovation for sustainable development: redefining community-based systems for blue economic development based on open, co-designed science- and knowledge based informed management;
- Attracting and empowering youth and new communities in the Science, Engineering and Technology domains in both formal and informal sectors.

The mission-oriented approach for AIR Centre provides a clear orientation to foster knowledge-driven economic development in the Atlantic region by addressing new and emerging science and technology to achieve societal impact. The five main thematic missions of AIR Centre are:

- **Clean and productive bays and estuaries** - promoting the sustainable development of major bay and estuarine areas, including the comparative assessment and action research in several locations;
- **Resilience to coastal natural hazards** – preventing, reducing and increasing preparedness for response against coastal hazard exposure and vulnerability to natural or man-made disasters, such as floods, sea-level rise and extreme weather, as well as adapting and mitigating climate change effects;
- **Sustainable food production** – promoting new food value chains with sustainable fisheries and off-shore aquaculture and reducing environmental risks and pressures for food security;
- **Improved resource management of oceans, coasts and marine systems** – promoting the sustainable development of ocean and coastal ecosystems, enhancing capacity for good governance of marine and coastal biodiversity, and raising awareness for local communities and decision makers on the economic value of the ecosystem and mechanisms for sustainable development;
- **Improved environmental and maritime security** – enabling the creation of impactful, affordable data collection and information systems employing collaboratively developed cubesats, robotics, and autonomous systems coupled with earth observation, models and artificial intelligence systems.

We hope to see you at the Summit.



## Draft Agenda

(Time Zone: EDT)

### Monday, October 5th, 2020

- 09:00/09:30: Ministerial Meeting: *Welcome Remarks*
- 09:30/10:00: Ministerial Meeting: *AIR Centre Missions, Current Status, and Projects*
- 10:00/12:00: Ministerial Meeting: *Brief Remarks from High-Level Representatives*
- 12:00/13:30: Plenary Session: *Global Challenges, Local Action: How Space and Ocean Sciences Can Support Economy Recovery and Job Creation in a Post-Pandemics World*

### Tuesday, October 6th, 2020

- 09:00/10:30: Plenary Session: *Blue Economy for Post-Pandemic Recovery*
- 10:30/12:00: Technical Sessions / Parallel Session: *Marine Spatial Planning*
- 10:30/12:00: Technical Sessions / Parallel Session: *Coastal Pollution*
- 12:00/13:30: Technical Sessions / Parallel Session: *Mangroves*
- 12:00/13:30: Technical Sessions / Parallel Session: *Coastal Processes*

### Wednesday, October 7th, 2020

- 09:00/10:30: Plenary Session: *UN Decade of Ocean Science for Sustainable Development 2021 – 2030 - Opportunities for Atlantic Engagement*
- 10:30/12:00: Technical Sessions / Parallel Session: *Extreme Weather*
- 10:30/12:00: Technical Sessions / Parallel Session: *Floods*
- 12:00/13:30: Technical Sessions / Parallel Session: *Sea Level Rise*
- 12:00/13:30: Technical Sessions / Parallel Session: *Coastal Erosion*

### Thursday, October 8th, 2020

- 09:00/10:30: Plenary Session: *International Collaboration*
- 10:30/12:00: Technical Sessions / Parallel Session: *Sustainable Fisheries*
- 10:30/12:00: Technical Sessions / Parallel Session: *Sustainable Aquaculture*
- 12:00/13:30: Technical Sessions / Parallel Session: *Coastal Observation*
- 12:00/13:30: Technical Sessions / Parallel Session: *Seagrass*
- 13:30/15:00: Technical Sessions / Parallel Session: *Corals*
- 13:30/15:00: Technical Sessions / Parallel Session: *Sargassum*

### Friday, October 9th, 2020

- 09:00/10:30: Plenary Session: *Capacity Building and Innovation*
- 10:30/12:00: Technical Sessions / Parallel Session: *Numerical Modelling*
- 10:30/12:00: Technical Sessions / Parallel Session: *Marine Robotics*
- 12:00/13:30: Technical Sessions / Parallel Session: *Nanosatellite Constellation*
- 12:00/13:30: Technical Sessions / Parallel Session: *Artificial Intelligence*