

AFRICA NEEDS SPACE

1st online Workshop on

SPACE AND ITS OPPORTUNITIES FOR ENTREPRENEURSHIP AND ECONOMIC DIVERSIFICATION IN AFRICA

Organized by Eureka Géo and Space Generation Advisory Council (SGAC)
Under the high patronage of the Minister of Small and Medium Enterprises, Social Economy and
Crafts. (MINPMEESA)

OBJECTIVE

Present the Space sector as an opportunity for the diversification of the economy and entrepreneurship for SMEs.

KEYS WORDS

Space science and technology, entrepreneurship, Applications and services, Training, Innovation, Agenda 2063, SDG, R & D



CONTEXT AND JUSTIFICATION

Space under the influence of technologies has entered a new era imposing itself as an alternative to solving global, regional and sub-regional challenges in many crucial areas such as meteorology, telecommunications, navigation, resource management natural resources, maritime security, prevention and management of natural disasters, medicine, etc.

For Africa, with an area is 30.41 million km², rich in natural resources with a population estimated at 2.5 billion in 2050. The greatest challenges facing Africa concern the improvement of the living conditions of its populations and the preservation of the natural resources on which depends the survival of millions of its inhabitants. Space through its applications, data, patents, and technologies offers services to monitor the vast expanses of natural resources and the changes taking place, to predict risks and mitigate disasters, to plan territories by involving citizens in a process of resilience.

The African Union by the will of its Heads of State, has adopted a Space Policy from which results the creation of the African Space Agency which directs and coordinates the development of Space activities in Africa for the achievement of Agenda 2063 objectives in particular and the Sustainable Development Goals in general. In this regional dynamic, a window opens for Space entrepreneurship and the emergence of small and medium-sized enterprises.



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OBJECTIVES

The Workshop organized as a videoconference prior to the AFRICA NEEDS SPACE conference will make it possible to popularize and promote Space with the general public and all stakeholders (pupils, students, researchers, entrepreneurs, job seekers, local authorities, state institutions, civil society etc.) in order to present the interest and potential of Space as an alternative for the diversification of the economy, the creation of Small and Medium-Sized Enterprises (SMEs) and the structuring of the Space and entrepreneurial ecosystem .

Placed under the high patronage of the Minister of Small and Medium Enterprises, Social Economy and crafts of Cameroon, the workshop aims at giving directions for the organization of the conference AFRICA NEEDS SPACE which will be held during the year 2020. This conference will allow Cameroon to define the activities to develop in order to benefit the opportunities offered by Space and create new economic services.

CONCEPT

The conference for this very first edition aims to:

1. Promote and popularize the African Space Policy drawn up by the African Union Commission,
2. Present the actors involved in Space in Africa
3. Encourage the Networking of actors in the Space ecosystem for sharing and collaboration in order to boost the African economy
4. Propose, strategic avenues for the implementation of Space activities in Central Africa sub-region
5. Share experiences and success stories of space supported economic and social development in a changing climate.

INTEREST

In view of its great geographical, climatological, ecological, mining diversity and its situation on the edge of the Atlantic Ocean plus an ever-growing, young and dynamic demography, Cameroon must face development issues and challenges at the ecological, economic, social and environmental levels.

Its strategic position in the Central African sub-region obliges Cameroon to put in place mechanisms to facilitate socio-economic integration, ensure food, health and military security in this sub-region while focusing its educational system on theoretical and practical training of human resources resolutely geared towards progress and innovation.

STAKEHOLDERS

Space technologies and sciences are transversal and today have applications in all sectors of activity. The workshop will seek to create an ecosystem of actors and strengthen the participation of the private sector, universities and end users in actions to develop and provide services implemented by consortia.

The exchanges and recommendations of the stakeholders (local actors) involved in this workshop will add value to the actions initiated in Cameroon. Being:

- Ministry of Posts and Telecommunications
- Ministry of Agriculture
- Ministry of Forests and Wildlife
- ONACC
- Pan African University of Yaoundé
- Drone Africa
- Orange Cameroon
- University, Department of Physics / Atmospheric-Climatology and Remote Sensing Laboratory
- OFAC
- SOGEFI
- Nanosatellite Mission Design
- Etc



WORKSHOP CONDUCT

The workshop will take place by videoconference in (03) major phases during 1 month:

1. **Part 1: (framing)** presentation of the framework established by the States for the implementation of Space activities, and inventory of Space activities in Africa. This phase will be led by representatives of the African Union Commission, the State of Cameroon, Space agencies, research centers, universities, representatives of the private sector, etc.

This part will revolve around brainstorming on the theme: *“The Space sector, an opportunity for the diversification of the economy”*.

2. **Part 2 (Technical webinars):** presentation and promotion of goods and services developed in the Space sector allowing employment, sustainable development of companies, and organizations working in the sectors of:
 - a. Ground station
 - b. Satellite components
 - c. Propulsion system
 - d. Communication satellites
 - e. Earth observation
 - f. Spatial Data Infrastructure
 - g. Astronomy and Space tourism
 - h. etc.

This phase will give rise to technical workshops aimed at raising awareness and training the general public in the culture of New Space.

3. **Part 3 (Brainstorming session with recommendations):** this phase will help to consolidate the road map for the creation of an ecosystem in Africa, with a focus on Cameroon for the development of law and Space applications based data.

Purpose of the roadmap: To debate on the existing, and to define the axes to create SMEs in the space related sector.



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PROVISIONAL PROGRAM

During this conference, a point of honor will be put on concrete applications and concrete opportunities in Space. Practical sessions will demystify Space and show the uses that influence the daily lives of Cameroonians. Each workshop will cover a duration of 1 hour (West African Time + 1).

05/04/2020

- **Module 1: Introduction**

- 2:00 pm: Welcome from Eureka Géo and SGAC (Monique Lagoute & Clementine Decoopman / Rania Toukebri)
- 2:10 pm: opening speech from MINPMEESA (Mr Minister of MINPMEESA)
- 2:15 p.m-3 pm: Advice and reminder of the rules of use (Moderator Jesse Happy/ Prudence Noutcha)

05/05/2020

- **Module 2: framing (AFRICAN UNION, AFRICAN SPACE AGENCIES)**

- 2:00 p.m-2:30 p.m: Presentation of the African Space Policy and the STISA 2024: the objectives, challenges and issues for the continent (African Union (Dr Tidiane Ouattara)
- 2:30 p.m-3:00p.m: Egyptian Space Agency (Ayman Ahmed)
- 3:00p.m-3:30 p.m: Sud Africa Space Agency SANSA (Dr Val Munsami)
- 3:30p.m-4:00 p.m: Open discussions and summaries (Moderator Prudence Noutcha)

05/06/2020

- **Module 2: framing (MINPOSTEL, MINRESI, MINPMEESA)**

- 2:00 p.m-2:30 p.m: MINPMEESA development plan for the creation of SMEs (Director of SMEs)
- 2:30 p.m-3:00 pm: State of Cameroon's initiatives in Space-MINPOSTEL (Madam Minister of MINPOSTEL S / C MINPMEESA)
- 3:00 pm-3:30 p.m: MINRESI (Madam Minister of MINRESI)
- 3:30p.m-4:00 p.m: Open discussions and summaries (Moderator Prudence Noutcha)

05/07/2020

- **Module 3: The economy of the Space sector (Cameroon, Africa, Europe)**

- 2:00 pm-2:30 p.m: Cameroon's experience: Ringo Cameroon (CEO of Ringo)
- 2:30 pm-3:00 pm: Africa's Experience: Space in Africa (Temidayo Oniosun)
- 3:00 pm-3:30 p.m: Experience from Europe: AIRBUS Africa4Future BizLab(Pauline Bourg).
- 3:30p.m-4:00 p.m: Open discussions and summaries (Prudence Noutcha)

05/12/2020: New Space technical workshop

- **2: 00 pm- 4: 00 pm: Satellite components**

- Webinar 1: Nanosatellite Missions Design (Dr. Ifriky Tadadjeu)
- Webinar 2: OpenCosmos (Lucille Baudet)

05/14/2020: New Space technical workshop

- **2:00 p.m. - 4:00 p.m: Earth Observation use case**

- Webinar 1: Training on Google Engine (Dr Nusret Demir, Akdeniz University)
- Webinar 2: Satellogic S.A (Luciano Giesso)

05/19/2020: New Space technical workshop

- **2:00 p.m. - 4:00 p.m: Space law**

- Webinar 1: VdA - Vieira de Almeida (Magda & Helena)
- Webinar 2: International law student's association university of Calabar (Nelly Hellen)



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05/21/2020: New Space technical workshop

- **2:00 p.m - 4:00 p.m: Space Training**
Webinar 1: CRAFTL-F
Webinar 2: Pan Africa university

05/26/2020: New Space technical workshop

- **2:00 p.m. - 4:00 p.m: Spatial Data infrastructure**
Webinar 1: GeoCameroun(Sob Willy Franck- CEO SOGEFI)
Webinar2: JRC (Davide) /ESA (Gomez)

05/28/2020: New Space technical workshop

- **2:00 p.m. - 4:00 p.m: Communication satellites**
Webinar 1: NigSatCom (CEO- Adimbolo)
Webinar 2: Afrique Telecom (CEO Philippe Tintignac)

05/29/2020: Closing

- **3 p.m. - 4:00 p.m. Workshop debriefing (Moderator Jesse Happy/ Prudence Noutcha)**
- **4:00 p.m. - 4:30p.m. Closing remarks (MINPMEESA, Monique Lagoute & Charles-aimé Nzeussi)**
- **4.40 pm End of the online Workshop**

NB:

Monday, 4th, 11th, 18th, 25th :sharing online webinar documents to participants

Friday, 8th, 15th, 22th, 29th: online-brainstorming.

The participants will be invited to fill a google form which will be use for the brainstorming.



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