Italian engagement in capacity-building activities in Africa

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Capacity building in Africa as key to attain Africa’s self-reliance
In the long term, capacity building allows to find indigenous solution to African issues

Thematic priority 7
Capacity-building for the twenty-first century
The Broglio Space Center in Malindi (Kenya): 50 years of history

1964-1966
Foundation and completion of the **San Marco equatorial space facility** in Malindi (Kenya):
- 3 sea platforms
- a ground segment on the Kenyan coast

1967-1988
27 launches of satellites performed in collaboration with NASA.

**Today**
Ground control activities and data receiving for international missions.
Italian capacity-building activities for Kenyans

Deepening of the bilateral relations and growing of the awareness that it is a source of mutual scientific, technical and economic benefits

ASI in charge of:
• providing scholarships and fellowships for Kenyan nationals
• promote joint application for international initiatives and funding programs
• promote joint research projects

Education and training are a priority of the cooperation
Collaboration between Sapienza University of Rome and University of Nairobi

Joint research projects:

- **SBAM** (System Implementation and Capacity Building for Satellite-Based Agricultural Monitoring and Crop Statistics in Kenya project)

- **IKUNS** (Italian-Kenyan University Satellite project)

**2017**

Joint International Post-Graduate Course in Space Mission Design and Management
1KUNS and the UN/Japan "KiboCUBE" Program

2016
University of Nairobi selected with a proposal for a “1st Kenyan University Nano-Satellite (1KUNS) Precursor Flight”, supported by ASI and Sapienza University of Rome

19 January 2018
1KUNS handed over to JAXA and ready to fly to the ISS and to be released from there into earth orbit
2º International Space Forum at Ministerial Level
AFRICAN CHAPTER
13 February 2018
Space Science and Academia for sustainable development in Africa
The 1st ISF was jointly organized by the Italian Space Agency (ASI) International Astronautical Federation (IAF) and International Academy of Astronautics (IAA)

Climate Change
Big Data Management
Earth Protection
The 2nd ISF is jointly organized by the Italian Space Agency (ASI) International Astronautical Federation (IAF) Kenya Space Agency (KSA)

Capacity Building

Environmental Sustainability

Space Partnerships

Topics and Keynote speakers

Valanathan Munsami (SANSA, African Union representative)

Jan Woerner (ESA Director General)

Simonetta Di Pippo (UNOOSA Director)
• Adoption of the AFRICAN Page, to be added to the Trento Space Statement adopted in 2016

• Contribution to the UNISPACE+50, the UN Agenda 2030 and the Africa Union Agenda 2063
International Center for Space Education in Africa at the BSC-1

The BSC in Malindi, thanks to its high-level technological capabilities and qualified human resources, can contribute to the goals of educating and training young African leaders.

Mission

Prepare African students and trainees to become the Space leaders of future Africa and promote regional, international and inter-continental cooperation, for a peaceful and sustainable development of the African continent.
Space Educational Ambition

• educating to interdisciplinary space knowledge
• strengthening national identity
• educating individuals and community to cooperation solutions, diversity, gender equity and peace projects

Open to international support and cooperation to offer the best space capacity building portofolio
International Center for Space Education in Africa at the BSC-3

Activities and programs

• Training courses
• Workshops
• Seminars
• Internships
• Research projects
• Spin-off activities
Disciplines and areas of research

• Earth observation, including services and applications
• Space communications
• Satellite data acquisition, processing, archiving and dissemination
• Control and telemetry services
• Launching and control of satellites, sub-orbital platforms and stratospheric balloons

• Science research
• Navigation and positioning applications and services
• Healthcare and Telemedicine
• Space Policies and Institutions
Conclusions

Italian Capacity-building activities in Africa represent a contribution to:

- UNISPACE+50
- UN Agenda 2030
- African Union Agenda 2063
Thank you – www.asi.it