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Assuring a Safe, Secure and Sustainable Environment for Space Activities (4)

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A GUIDE MAP FOR EMERGING SPACE ECOSYSTEMS

Abstract

The benefits of space technologies and applications in supporting society have become increasingly significant in global agendas of sustainability and development due to their wide range of applications (i.e., UNOOSA's Space 2023 Agenda, and the IAF's Sustainability, Investment, and Security Agenda). As a result, investing in space technologies has become essential to achieving prosperity and sustainability. With the early years of the space age characterized by ambitious exploration, competition between international global powers, and heavy government investment, many countries were led to believe that space could not be a part of their national activities. While space may be deemed as a difficult and costly field to enter, the truth is that the space industry of today has reached an ideal level where the entry barriers have never been lower, giving traditional non-space-faring countries an opportunity to enter the fascinating space sector, especially with NewSpace and private companies taking the lead. Emerging space countries' significant potential and resources make this space era a golden opportunity to expand in the space industry and become key players in the field within the next few years. Upon review of several strategies, in this paper we are presenting an overall approach for emerging space countries to integrate space into their national fabric and build space sector capacity, thus further driving societal improvement and economic growth, inspiring future generations, and elevating national prestige. For this, we will weave in the results and recommendations that came from space events that happened in the past years both in Africa and Latin America (6th AF-SGW, 7th SA-SGW, GLEC 2019, GLEC 2022). As a result, this paper provides a guide map for any individual or enthusiast from an emerging space country to initialize, ignite and catalyze the process of creating a space ecosystem for their nations bringing all the benefits of space to their communities on Earth.