

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Interactive Presentations - IAF EARTH OBSERVATION SYMPOSIUM (IP)

Author: Mr. Yusif Imanov
Azerbaijan State University of Economics, Azerbaijan

Mrs. Fidan Ahmadova
Azerbaijan State University of Economics, Azerbaijan

INTERNATIONAL COOPERATION AND BUSINESS VENTURES IN EARTH OBSERVATIONS

Abstract

Primary goal of Earth Observation (EO) is monitoring and studying environmental parameters to fully understand and manage the Earth's natural resources, follow changes in the environment and decision-making process related to it. Earth observation plays a vital role in raising awareness of global issues, stimulating global economic growth, addressing global challenges such as climate change, natural disasters, management of resources. States and corporations have only agreed to share resources, experience, and infrastructure in response to the rising demand for accurate and up-to-date earth observation data, as private companies do not seem to be able to engage in such cooperative efforts. The advantages of cooperative EO projects are emphasized clearly and with more detailed explanation, including aforementioned factors such as resource efficiency, disaster management, and climate monitoring. Additionally, as the aerospace field changes from research and development to commercialization and business strategy in order to expand EO capabilities, the role of individuals in geographic analysis is studied, using a focus on the critical contributions to technological advancements limits and market-driven solutions. Infrastructure is also very important. In order to create a dynamic ecosystem that benefited both public and private well-being, the article contains case studies of public-private partnerships that have resulted in satellite technology, data analytics, and historically significant advancements in artificial intelligence. However, there are still challenges in the collaborative setting, such as dealing with geopolitical pressures and information sharing processes. By offering a framework for internationalization cooperation and best business practices during the early on stage (EO) phase, the article addresses the aforementioned challenges. This article, in all its parts, advocates for a future in which global challenges are jointly addressed through international collaboration in the areas of Earth exploration and commercialization. We can use land management to not only identify the mysteries of our planet but also to promote sustainable development, stimulate innovation, and build an economically viable future for future generations through leveraging the combined knowledge and resources of states and the private sector.