

Transcending Societal Issues for Space Exploration (12)
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SPACE EXPLORATION AND SUSTAINABLE DEVELOPMENT. ROLE OF GOVERNMENTAL AND
PRIVATE SECTOR

Abstract

With the development of space sector, space technologies started to be successfully used on earth which results in economic growth and new market emergence. Space exploration stimulates scientific progress, creates new jobs, expands technology, creates new industries, and promotes international cooperation. This paper presents the results of the exploratory and predictive data analysis about international space exploration activities from the point of view of sustainable development and the improvement of life on earth. On one hand, the functionality of governmental space agencies such as Roscosmos, NASA, ESA, JAXA, and other space powers in terms of impacting on sustainable development will be discussed. On the other hand, an assessment of the situation in view of emerging startups will be provided and describes the work that can be performed by private initiatives. As a case study, the private initiative Easar is considered, which focuses to find ways of improving the use of space systems for human benefit and developing collaborative measures to address shared challenges. The result of this study will be presented by a set of recommendations for sustainable development goals to attract private initiatives and emphasize on the role of space StartUps.