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Public-Private Partnerships: Traditional and New Space Applications (2)

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PUBLIC-PRIVATE PARTNERSHIPS: TRADITIONAL AND NEW SPACE APPLICATIONS

Abstract

Public-Private Partnerships (PPPs) play a crucial role in driving innovation, investment, and progress in the field of space exploration and utilization. This paper will focus on exploring the dynamic landscape of PPPs and their applications across both traditional and emerging sectors within the space industry. The research will begin by examining the fundamentals of PPPs, highlighting their role in leveraging government resources, expertise, and infrastructure with private sector capabilities, resources. Case studies and success stories from established PPPs in satellite manufacturing, launch services, and satellite operations will be presented to illustrate the diverse applications and benefits of collaborative ventures in the space industry. This paper will also explore the evolving landscape of PPPs and their applications across various sectors of the space economy. Insights from recent initiatives and partnerships in the commercial space sector will be shared to showcase the transformative potential of collaborative models in advancing new frontiers of space exploration and utilization. Specifically, will explore how PPPs have transformed traditional space industry applications, such as satellite-based services encompassing Earth observation, navigation, and communications. Furthermore, this research will focus on the diversification of space economy budgets, including efforts to attract private investments and expand funding sources beyond traditional government funding. In addition to traditional applications, the session will also explore new frontiers in space exploration and utilization enabled by PPPs. Topics such as space resource extraction, asteroid mining, space tourism, and in-orbit manufacturing represent exciting opportunities for collaboration between the public and private sectors. By leveraging PPPs, stakeholders can unlock the economic and scientific potential of these emerging sectors while ensuring sustainable and responsible space exploration. Through PPPs, governments and private entities have collaborated to develop and deploy satellite constellations, enhance telecommunications infrastructure, and address global challenges such as climate change and disaster management. This session will delve into the successes and challenges of traditional space applications facilitated by PPPs, highlighting best practices and lessons learned. Public-Private Partnerships (PPPs) are pivotal for fostering innovation, investment, and growth in Azerbaijan's space endeavors, spanning both traditional and emerging sectors. Azerbaijan's participation in space activities has traditionally focused on satellite-based services. This session will showcase Azerbaijan's achievements in traditional space applications and highlight the role of PPPs in driving these advancements. The paper aims also to showcase Azerbaijan's achievements and potential in traditional and new space applications through PPPs, highlighting opportunities for collaboration, innovation, and growth in the country's space industry.