

38th IAA SYMPOSIUM ON SPACE POLICY, REGULATIONS AND ECONOMICS (E3)  
Interactive Presentations - 38th IAA SYMPOSIUM ON SPACE POLICY, REGULATIONS AND  
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UN SUMMIT OF THE FUTURE SPACE TECHNOLOGY SEMINAR OUTCOMES

**Abstract**

This presentation highlights the key outcomes from the UN Summit of the Future Space Technology Seminar, an event hosted by the United Nations Office of Information and Communication Technology (OICT) and the United Nations Office for Outer Space Affairs (UNOOSA). This seminar brought together a diverse group of international public, private, and nonprofit leaders to explore the transformative role of exponential space technologies in advancing the sustainable development of both Earth and outer space. As space exploration continues to expand beyond traditional government-led programs, the seminar emphasized the growing role of emerging technologies and innovative partnerships in shaping the future of space activities. Discussions centered on how next-generation advancements in artificial intelligence (AI), quantum computing, robotics, satellite systems, and in-space manufacturing can contribute to solving critical global challenges, from climate monitoring and disaster response to space sustainability and deep-space exploration. The outcomes of this high-level dialogue highlight the intersections between space innovation and the United Nations Sustainable Development Goals (SDGs), underscoring the necessity of inclusive and responsible space governance to ensure that space remains a global commons accessible to all. The presentation will detail the policy recommendations and strategic action points that emerged from the seminar, particularly focusing on how public-private partnerships can foster space innovation ecosystems that align with global sustainability priorities. Additionally, it will provide insights into the latest international initiatives aimed at reducing space debris, enhancing global space traffic management, and ensuring ethical considerations in the deployment of AI and automation in space operations. A key focus will be on the role of developing nations and emerging space actors, addressing the need for equitable access to space technology, data-sharing mechanisms, and capacity-building efforts that enable wider participation in space exploration and utilization. The seminar outcomes reflect a shared commitment among stakeholders to collaborate on scalable, forward-thinking solutions that bridge the gap between Earth and space development. By presenting these findings, this session will serve as a platform for continued dialogue among policymakers, industry experts, and academics on the future of space exploration and innovation. The presentation aims to inspire cross-sector engagement in shaping policies that support the responsible and sustainable expansion of human activities beyond Earth, ensuring that the benefits of space exploration are shared equitably across nations and generations.