

IAF SYMPOSIUM ON PLANETARY DEFENSE AND NEAR-EARTH OBJECTS (E10)  
Interactive Presentations - IAF SYMPOSIUM ON PLANETARY DEFENSE AND NEAR-EARTH  
OBJECTS (IP)

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ASSESSING INTERNATIONAL COOPERATION FOR PLANETARY DEFENSE: A COMPARATIVE  
ANALYSIS OF SPACE POLICY FRAMEWORKS

**Abstract**

Near-Earth Objects (NEOs) pose a potential threat to our planet, necessitating the development of effective planetary defense strategies. International cooperation is crucial for addressing this global challenge. This research proposal aims to conduct a comparative analysis of space policy frameworks across different countries to assess the level of international cooperation in the context of planetary defense. By examining the policies, strategies, and institutional mechanisms in place, this study seeks to identify gaps, challenges, and opportunities for enhancing collaboration in NEO detection, mitigation, and response efforts.

**Research Objectives**

1. Analyze selected countries' existing space policy frameworks focusing on provisions related to planetary defense and NEOs
2. Identify commonalities and differences in approaches to NEO detection, characterization, and mitigation strategies.
3. Evaluate the effectiveness of international agreements, treaties, and cooperative mechanisms in promoting collaboration on planetary defense initiatives.
4. Assess the role of governmental agencies, intergovernmental organizations, and private sector entities in advancing planetary defense efforts.
5. Explore the potential impact of emerging technologies on enhancing planetary defense capabilities and the implications for international cooperation.