

37th IAA SYMPOSIUM ON SPACE POLICY, REGULATIONS AND ECONOMICS (E3)  
Interactive Presentations - 37th IAA SYMPOSIUM ON SPACE POLICY, REGULATIONS AND  
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POLICIES AND INTERNATIONAL COOPERATION IN SUPPORT TO THE ASEAN COMMUNITY  
FOR THE USE OF SPACE TECHNOLOGIES TO MANAGE ENVIRONMENTAL FRAGILITIES.

**Abstract**

In recent decades, the Southeastern Asian region has been troubled by various drivers of economic and social changes deriving from the ongoing climate crisis, such as rising sea levels, heat waves, and increasingly intense and unpredictable weather events; in truth, many communities living in Southeast Asia have been threatened by environmental degradation due to natural and anthropological disasters. For instance, due to more frequent and more intense typhoons, Vietnam has been dealing with prolonged energy shutdowns and rising flood levels that have been disrupting local everyday life and the economy, as reported in 2018 by the International Monetary Fund. In this context, this interactive presentation will analyze the use of space technologies by the space agencies of the ASEAN Member States to prevent the exacerbation of economic and social issues caused by climate change both on a national and a regional level. The Italian Space Agency (ASI) recently presented a project for collaboration to the ASEAN Secretariat for a cooperation initiative on space and smart technologies. On the basis of rather similar fragilities and exposure to natural and anthropological catastrophes between Italy and the ASEAN Member States, and given the historical experience of the Italian Space Agency (ASI) in managing emergencies in partnership with the Italian Civil Protection, this presentation will consider the benefits deriving from international space collaboration for disaster prevention and management in Southeast Asia. Finally, as the global climate crisis continues to worsen, it will be fundamental for the ASEAN Community to further coordinate space-based responses to the progressive environmental degeneration that will affect the region. For this reason, this interactive presentation will suggest feasible prospects for ASEAN space policies on disaster prevention and sustainability based on ASI's successful scientific diplomacy experiences.