

IAF SYMPOSIUM ON PLANETARY DEFENSE AND NEAR-EARTH OBJECTS (E10)
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MAPPING ACTORS FOR A PLANETARY DEFENSE COORDINATION OFFICE IN BRAZIL USING
A CONTEXTUAL-AND-BEHAVIORAL-CENTRIC-STAKEHOLDER IDENTIFICATION METHOD

Abstract

In 2016, NASA created the Planetary Defense Coordination Office (PDCO) to manage its planetary defense mission. Working with other government agencies and coordinating efforts with other international space agencies, it placed the United States as a global leader in this area. Following the USA, European nations represented by ESA, created in 2018, the Planetary Defense Office, located in Frascati, Italy. As main members of IAWN and SMPAG, these countries play an important role in providing information and technology to mitigate impacts related to PHOs. On the other hand, when we turn our attention to countries of emerging economies in Latin America, specifically Brazil (which has a territory of continental dimensions, strategically positioned in the southern hemisphere), the subject Planetary Defense is restricted to academic research groups or amateur astronomers that represent Brazil on a non-official way, in the collaboration networks cited above. Thus, the objective of this paper is to present a structure based on systems engineering so that the main stakeholders and actors can be identified in a way to compose a planetary defense strategy for Brazil, using the contextual-and-behavioral-centric-stakeholder-identification method. In this approach, the focus is on understanding all underlying relationships of a system in its environment and during its existence. As a result, stakeholders no longer need to be sought, but they emerge comprehensively from the holistic understanding of the system. Proper identification of stakeholders is the first step to bound the system of interest and ultimately to correctly define the problem of concern.