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Contribution of Moon Village to Solving Global Societal Issues (2)

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ROADMAP FOR A NON-SPACE FARING COUNTRY TO JOIN THE MOON VILLAGE

Abstract

Today, there are many plans for missions to the Moon. However, as some countries and companies “rush” to the Moon, most countries around the world are left behind. Addressing this discrepancy is an important challenge for the international space community and the world. The Moon Village (MV) concept is a critical framework for addressing this challenge. It establishes an open architecture within which any country might engage. The first step is to identify a path for emerging space countries to becoming part of the Moon Village, a program for Moon Village Participation of Emerging Space Countries. The program aims to bring the attention of non-space faring countries and emerging space countries to the opportunities that the Moon Village can provide. This paper describes the progress toward a Roadmap for a non-space faring country (Kuwait) to participate in the Moon Village. The roadmap presented in this paper specifies those opportunities for a country (in this case, Kuwait). Given those opportunities, the roadmap proposes mission architectures to the Moon that will potentially benefit the concerned country. Trade off studies were performed to identify the most feasible mission architecture to the moon. The paper describes the opportunities, missions’ architectures and trade off studies. The aim of the MV-PESC program is to find links for cooperation between non-space faring countries and the Moon Village. The roadmap in this paper describes the case of Kuwait as an example. It also describes how in the future the concept will be generalized for other countries around the world.