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DEVELOPMENT (D3)Strategies & Architectures as the Framework for Future Building Blocks in Space Exploration and
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ADVANCING THE VISION OF A MOON VILLAGE: RECENT PROGRESS

Abstract

The concept of a “Moon Village” (MV) is one that encompasses a wide range of prospective future human activities on the Moon – comprising early landers and orbiters, initial human and robotic exploration missions in the mid-term and eventual ambitious government and commercial operations (including eventual human settlements) in the far-term. During the past year, significant progress has been made to advance the vision of a Moon Village by a new non-governmental organization (NGO), the Moon Village Association (MVA). Working in concert with a variety of existing government and non-government organizations, this progress has centered around identifying, organizing broad-based international teams and beginning to undertake a variety of critical activities. These MVA efforts have included conventional topics such as identifying potential lunar missions and markets, examining options for Moon Village architectures (including high-level interface standards). However, the MVA has also undertaken consideration of cultural issues, cooperation and cooperation among diverse players, formulation of concepts for lunar analogues (both on Earth for the Moon, and on the Moon for missions beyond). This paper will review the core concepts that define the Moon Village, summarize recent progress to realize this vision with special emphasis on the methodology being used by the MVA, and define a notional international MV roadmap. It will conclude with a plan of action going forward.