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14TH IAA SYMPOSIUM ON BUILDING BLOCKS FOR FUTURE SPACE EXPLORATION AND DEVELOPMENT (D3)
Space Technology and System Management Practices and Tools (4)

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PROPOSAL FOR PLANNING BASED ON CAPABILITIES FOR THE BRAZILIAN SPACE PROGRAM

Abstract

The aim of this paper is to propose a methodology to define roadmaps for the planning effort of PNAE (National Plan for Space Activities) of Brazil, using assets and capabilities already available or planned as building blocks to achieve the requirements of future space programs in a horizon of 10 years in Brazil.

Brazilian space activities started in 1961 with the GOCNAE (Organization Group for National Commission for Space Activities) creation in the areas of astronomy, geodetic, magnetism and meteorology. The space technologies development started in 1969 with the IAE creation (Aeronautical and Space Institute) and in 1971 with the INPE (Brazilian Institute for Space Research) creation, replacing the GOCNAE.

The COBAE (Brazilian Space Activities Commission) was created in 1971 with the mission to plan and manage the PNAE, to define the roadmaps for the space activities development in Brazil. The COBAE was replaced in 1994 with the creation of AEB (Brazilian Space Agency) with the same mission.

These efforts related to space activities development in Brazil and especially with the development of the programs MECB (Brazilian Complete Space Mission) since 1980, and CBERS (China-Brazil Earth Resources Satellite) since 1988, and the development of solid rocket booster's technology, resulted in assets and capabilities that can be used in planning process of the Brazilian future space missions.