



國立成功大學 太空與電漿科學研究所  
Institute of Space and Plasma Sciences, NCKU

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## Challenges of Space Technology Research: Taiwan's Option for the Next Decade

趙怡欽 講座教授

成功大學航太系/成功大學航太中心

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### AUTHORS

[Yei-Chin Chao](#), Hung-Wei Hsu, Chien-An Chen, Tsung-Sheng Lee

### ABSTRACT

In this talk, the first and second stages of the national space programs of the National Space Organization (NSPO) are first reviewed and the current difficulties and ambiguities of policy of the third stage national space program are then discussed. The current situation of space technology research in Taiwan, especially space technology research that supports the development of the national space program is reviewed. The challenges of Taiwan's space technology researches to support the third stage national space program are evaluated and discussed. The feasible space technology developments for the next decade in Taiwan are also proposed, exclusively, the developments of boosted hybrid rockets as launch vehicles for future Taiwan sounding rocket programs and national space programs, and the development of power mobilized cubeSats for scientific and engineering payloads for orbital and suborbital experiments and exploration are discussed.

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