

New Business Models for Space Exploration (14)  
Poster Session (P)

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SMALL SATELLITE TECHNOLOGY DEMONSTRATION MISSIONS ON A SCALABLE  
ARCHITECTURE: NAOSAT

**Abstract**

New Space exploration challenges require more and more the application of disruptive technologies from Ground markets to minimize costs and increase performance. Technology areas like micro-nanoelectronics, photonics, MEMS etc. are highly applicable and in a fast pace evolution. However, the adoption of such technologies to Space industry standards keep slowly despite the harmonization efforts devoted by governments and Agencies. The company Emxys started in 2010 a program for Science and technology research mission mainly focused on technology validation and scientific research, under a "ride share" concept, based on a modular scalable and open Nanosatellite architecture named NAOSat. This contribution deals with the NAOSat concept, the lessons learned in proposing such possibility to interested partners and the conclusions that are leading the company to target a larger than a 3U Cubesat platform format.