

## BUSINESS INNOVATION SYMPOSIUM (E6)

New space individuals, projects, programs, or business units: innovation, entrepreneurship & investment at the microscopic level of analysis (1)

Author: Dr. Dmitry Payson  
United Rocket and Space Corporation, Russian Federation

Mrs. Elena Krivshich  
Organization Agat, Russian Federation

Dr. Yuri Makarov  
Roscosmos, Russian Federation

ON PUBLIC/PRIVATE RELATIONSHIPS IN THE SPACE ACTIVITIES: HOW DO THE HYBRID ACTORS INFLUENCE THE WHOLE PICTURE?

**Abstract**

The paper compares three types of the public/private space projects that are implemented in the situation of the industrial and public agency functions' consolidation within the single corporate or public actor, like Roscosmos of Russia or ISRO of India. The major project types identified are (1) corporate B2B projects with a hybrid actor interacting with the industrial player(s) based on the regular commercial and investment contracts; (2) public/private partnership agreements that include both long-term joint goals and resource sharing from both government and private sector; and (3) dedicated forms of the small and medium enterprises support and advanced capacity building based on the open innovations and state support models. The resource allocation and roles are considered for three identified project modes. Presence and form of direct state funding is identified as a key distinction criterion. Typical examples of already implemented projects are provided. The possible forms of intersectoral collaboration are investigated for emerging directions of space activities, including space debris mitigation and asteroid defense. Based on the available empirical materials, the effort is made of marking up the whole continuum of the possible space projects based on the popular or advisable type of practical implementation when the 'hybrid' actors are involved.