

19th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)  
Innovative Concepts and Technologies (1)

Author: Mr. Taichi Yamazaki  
ASTRAX, Inc., Japan, taichi.yamazaki@astrax.space

INITIATIVE OF DEVELOPMENT OF THE SOLAR SYSTEM ECONOMIC BLOC BY USING  
BLOCKCHAIN TECHNOLOGY

**Abstract**

Human activities have evidently gone from Earth to space, the Moon, Mars and beyond. We are moving towards such a time where advanced technology will be required to address our unending challenges on Earth. ASTRAX uses this principle through its blockchain technology to develop a unified Space Economic Sphere Platform on the solar system scale. In this space platform based on blockchain technology, it is possible to efficiently match what is needed for a person living in space and on Earth, with an appropriate service provider. In the long run, ASTRAX aims to issue a dedicated Space Token that can be used on Earth, Space, the Moon and Mars, allowing for efficient and reliable exchange of the value of goods and services on the platform. Subsequently, we will create a dedicated system for all products and services necessary for living in space hotels, space colonies, and on the Moon and Mars. Starting from the initial launch, verified information is shared on our system. We conceptualized a functional virtual city called ASTRAX Lunar City, and combined with other existing living areas on Earth, in which we hope to use this new system to develop the real-life Lunar City. These systems can be used in spaceships, future space hotels, space colonies, the Moon, Mars and beyond. This is the course of the expansion for the ASTRAX vision in the future. This paper shows the outline of the concept, examples, and presentation of the results we have so far.