

The Business Model Discussion of Space Mining from the View Point of the New Space Industry

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Abstract

As the time for the new space industry arrives, several companies are looking for the possibility of space mining as a form of possible revenue generation business model. Materials, from the Moon, asteroids, Mars, etc., are possibly in the forms of mostly solids, sometimes possibly even liquids or gases. The space mining activities are possibly aiming at specialty materials with value, special mechanical properties, density, shape, weight, hardness, softness, brittleness, thermal, electrical, magnetic or radioactive material characteristics, etc. This paper aims to discuss the material usage and destination, specialty instruments, equipment or machines required, cost structures, issues and resolutions - to come up with a workable service or business model, taking into account some assumption of the expertise and resources that might be available from an industry.

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Keywords : Space Mining, Materials Availability in
Orbit, Material Usage, Material Properties,
Business Model, Instrument and Equipment,
Location of Space Mining, Space Mining Cost
Structure