

Technology Roadmaps for Space Exploration (09)  
Technology Development Concepts (2)

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JAXA'S VISION AND TECHNOLOGY DEVELOPMENT FOR HUMAN SPACE EXPLORATION

**Abstract**

Based on the Japan's Basic Space Law and Space Basic Plan, we established a strategy of the lunar exploration both for robotics and human. For the robotic lunar exploration, we are planning to send a lander to around the central peak of the crater on near side of the moon around 2015, and create a base for scientific research near the south pole around 2020. For the human activities, we will firstly start the researches of key technologies for the human transportation such as human rated rocket engine, launch escape technology, human rated re-entry technologies, and environmental control and life support technologies. This paper shows mission roadmap and the technology development activities in Japan.