

Expectation to Nano-Satellite from MEXT's viewpoints

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Outline

1. Meanings of Nano-Satellite R&D
(MEXT's viewpoints)
2. Support activity for Nano-satellite R&D in MEXT
with 2009Fy supplementary budget
3. Future direction and issues

1. Meanings of Nano-Satellite R&D (MEXT's viewpoints) (1/2)

1) Technological Aspect

- Platform capable for challenging technology development that can cause to paradigm shift

2) Educational Aspect

- Theme that graduate students and young researchers are the centre
- Practical lesson material for Manufacturing, System development and Project management, etc,

1. Meanings of Nano-Satellite R&D (MEXT view points) (2/2)

3) Realize “Open Innovation” in space field

- Drive R&D under open circumstances
- Small and medium enterprises, Venture Business Companies, various Universities can join

2. Support activity for Nano-satellite R&D in MEXT with 2009Fy supplementary budget (1/2)

Aim, Purpose, ->

- Demonstrate the possibility about the construction of epoch-making Earth Observation System based on Nano-satellite constellation
- Concentrate high-level technologies of SMEs and Ventures, Research institutes foundation of and liberal idea and creativity of University
- As a result, expand the potential of space utilization

2. Support activity for Nano-satellite R&D in MEXT with 2009Fy supplementary budget (2/2)

- 7 themes were selected (three satellite system themes and four satellite sub-system themes)

- Selected organization =>

Tokyo institute of technology

Tohoku Univ.

Kyushu Univ.

Hokkaido Univ. (2 themes)

The graduate school for the creation of new photonics industries

Osaka Univ.

3. Future direction and issues (1/2)

- 1) Direction of MEXT in line with “New Growth Strategy of Japan”
 - Drive R&D for Micro/Nano-satellite that aims for new market development
 - Program for human resources training that contributes space diplomacy and overseas deployment

3. Future direction and issues (2/2)

2) Issues

- Secure human resources involved with activities like,
- Grasping needs of each countries
- Supporting activities for each countries
- Ensure the launch opportunities and develop infrastructure (ex. Common test facility, etc,)
- Establish technology road map to explore expanding practical utilization and industrialization