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# ***Japanese Space Policy***

## ***-The Basic Plan for Space Policy-***

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**Basic Space Law**

***Enforced  
in Aug. 2008***

***Based on the Basic Space law***

**Strategic  
Headquarters**

***Established  
in Aug. 2008***

**Legislation on  
Space Activities**

**Formulation of Basic Plan for  
Space Policy**

**- The Vision:**  
*released in Dec. 2008*

**- The Plan:**  
*released in Jun. 2009*

**Restructuring of  
Space related Organization**

# ***The Outline of Basic Plan***

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## ***I. Status of Basic Plan for Space Policy***

## ***II. Basic Policy to Promote the Utilization and R&D of Space***

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***- Promotion of Specific Measures for Each Area***

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# ***I. Status of Basic Plan for Space Policy***

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*This Basic Plan is to **solve problems** we have on the utilization and R&D of space, such as*

- **Lack of comprehensive strategy as a whole nation***
- **Shortage of experience of the utilization of space***
- **Lack of competitiveness of industry***

*This Plan is based on article 24 of the Basic Space Law, and **Five years Program, foreseeing the next ten years,** to promote measures that the Government should take **comprehensively and systematically** with regard to the utilization and R&D of Space*

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## ***II. Basic Policy to Promote the utilization and R&D of Space***

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- ◆ Enhance R&D capability, Shift the Policy Priority to ***"Enhancing the Utilization of Space"***
- ◆ Promote the Governmental Space Programs ***effectively under the Strategic Headquarters' leadership***
- ◆ Goals are ***"Contribution to the international community"*** and ***"Better Quality of Life"***, applying our superior technology and talented people as much as possible
  - Utilization and R&D of Space
    - for ***the rich, secure and safe life*** of our nations
    - for ***contributing to the international community*** with regard to global problems

## ***II. Basic Policy to Promote the utilization and R&D of Space***

### ***<Six Basic Pillars of the Utilization and R&D of Space>***

#### ***1: For a Rich, Secure and Safe Life***

- Promote utilization and R&D of Space to deal with various needs of our society, such as ;
  - Public Safety, Preservation and Care of the territorial land,
  - Smooth Supply of Food, National Resources and Energy
  - Resolution of global problems (realizing a low carbon society)
  - better quality of life (high spec. positioning system, etc.)
  - continuous growth of industry and creation of employment

#### ***2: Security through the Utilization of Space***

- Security through the utilization of Space, while maintaining our exclusively defense-oriented policy

## ***II. Basic Policy to Promote the utilization and R&D of Space***

### **<Six Basic Pillars of the Utilization and R&D of Space>**

#### **3: Promote the Utilization of Space for Diplomatic Policy**

- "Utilization of Space for Diplomatic Policy"
  - Apply our space technology for protecting human beings from the threat of disaster, climate change, and others
  - Contribute to Global Environmental Issues through GEO, etc
- "Diplomatic Policy to promote the Utilization of Space"
  - Make diplomatic efforts for establishing the appropriate rules in space activities, in accordance with space related Treaties
  - Strengthen human development playing an active part in space-related international fora.

## ***II. Basic Policy to Promote the utilization and R&D of Space***

### ***<Six Basic Pillars of the Utilization and R&D of Space>***

#### ***4: Promotion of leading-edge R&D***

- Breakthrough for new technology and creation of an energetic future by leading-edge R&D such as
  - space science and manned space activity that expand the area where human beings can exist
  - space photovoltaic which contributes to resolving the global environmental and energy problems
- Utilizing proactively international cooperation

## ***II. Basic Policy to Promote the utilization and R&D of Space***

### **<Six Basic Pillars of the Utilization and R&D of Space>**

#### ***5: Foster Strategic Industries for the 21st Century***

- The space industry is :
  - an important base that supports Space Activity of our country
  - so wide that it includes the utilization industry, and has a ripple effect to other industries
- Foster the Space Industry as a strategic one for the 21st century, and strengthen international competitiveness

#### ***6: Consider the Environment***

- Promote the utilization and R&D of space, considering the effect on the environment
- Take the lead on environmental safeguards of space cooperating with the international society

# **III. Measures**

*The Government should promote comprehensively and systematically the following 9 Satellite Systems and Programs (5 Satellite Systems and 4 Programs) under the 6 pillars*

## **< 5 Satellite Systems and 4 Programs >**

**A: Land and Ocean Observing Satellite System to contribute to Asia and other regions**

--- Achieving Public Safety, Preservation and Care of territorial land, etc

**B: Global Environmental Change and Climate Observing Satellite System**

--- More precise climate forecast, Smooth Supply of Food, etc

**C: Advanced telecommunication Satellite System**

--- Secure the means of communication in the event of disaster

**D: Positioning Satellite System**

**E: Satellite System for National Security**

# ***III. Measures***

## **< 5 Satellite Systems and 4 Programs >**

### ***F: Space Science Program***

--- Create the world-leading scientific results which lead the world effort

### ***G: Manned Space Activity Program***

--- Achieve a healthy long life society, Create the world-leading scientific results, Expand the area where human beings can exist

### ***H: R&D of Space Photovoltaics Program***

--- Achieve new energy that supports a low carbon society

### ***I : Small Size Certification Satellites Program***

--- New industry, expansion of the space industry and creation of employment

# III. Measures

## < Promotion of Specific Measures for Each Area >

### 1: For a Rich, Secure and Safe Life

System A, B, C, D

- Establish a Satellite Data Utilization System
  - Increasing user-friendliness of the data for both specialists and for ordinary citizens
  - Establish Data Archive and Contribution System, so that the user can access several satellite data at once, which is called "One Stop Service"
  - Establish the data policy, including the policy of charge, etc

### 2: Security through the Utilization of Space

System E

- Promoting the discussion on how to apply the space technology in the field of the security arrangement compatible with Japan's exclusively defense-oriented policy

# III. Measures

## < Promotion of Specific Measures for Each Area >

### 3: "Utilization of Space for Diplomatic Policy" and "Diplomatic Policy to promote the Utilization of Space"

All Systems  
& Programs

- Contribution for the Asia Pacific and other regions
  - Enhance cooperation under the "Asia-Pacific Regional Space Agency Forum (APRSAF)"  
(in adequate cases, by using official development assistance)
  - Contribute additionally to the Middle East, Africa, Central and South America
- Contribution for global problems
  - Contributing to the exploration of policy options for the prevention of global warming by "IBUKI", etc
- Enhancing bilateral relations

COPUQS 52th Session

# III. Measures

## < Promotion of Specific Measures for Each Area >

### 4: Promotion of leading-edge R&D

Program F, G, H

- Promote space science, challenging scientific discovery
- Promote manned space activity
  - Decide comprehensively whether to prolong the operation of the International Space Station to after 2016
  - Improve the capability to realize manned space activity
  - Set it an important target to probe the moon
  - Consider about the probe of the moon within a year, aiming to probe the moon by a two-legged robot by around 2020
- Promoting R&D of the forefront area to contribute to environmental and energy measures (Space Photovoltaics, etc)

# ***III. Measures***

## ***< Promotion of Specific Measures for Each Area >***

### ***5: Foster the Space Industry as a Strategic one***

***All Systems  
& Programs***

- Strengthen international competitiveness
- Promote constructing a space transportation system and the maintenance of launch shooting ranges, etc
- Promote industrial activity by utilizing the capability of medium and small-sized enterprise, venture companies, and universities

### ***6: Environmental Safeguards***

***All Systems & Programs***

- Consider the influence to the ground environment and promote Spin-off of technology related to space to environmental areas
- Safeguards of **Space Environment**
  - Promote **observation of orbital objects to identify the debris population better, mitigation of debris, and coordination to remove them, and participate proactively in making an international frame**

# III. Measures

## < Promotion of **Specific Measures** for Each Area >

### 7: Invest in the next generation; facilitate the participation of people

All Systems & Programs

- Foster engineers and researchers contributing to the next generation
  - Strengthen **space education and research** at the universities, etc.
  - Foster practical engineers and researchers through **cooperation between the space agency and universities**
- Promote the **education** of children, **public relations**
  - Expand the chance of real or virtual experiences
- Promote measures in which the people participate
  - **Contests** in which the people participate
  - Make efforts to request people's wisdom about the space policy, etc

# ***IV. Promote Measures under the Basic Plan for Space Policy***

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- (1) Structure to promote measures based on the Basic Plan***
- (2) Ensuring the necessary budget and personnel for the execution of the measures***
- (3) Follow-up and announcement of how far the measures are executed***
- (4) Strengthening the investigation and analysis function of international trends***
- (5) Establishment of legislation concerning Space Activity***
- (6) Ensuring the cooperation and correspondence with policies other than space***

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**Thank you  
for your attention!**