

International Mechanism for Cooperation in the Peaceful Exploration and Use of Outer Space based on Non-binding Agreements

UNCOPUOS, Legal Subcommittee
52nd Session
Vienna, 15 April 2013

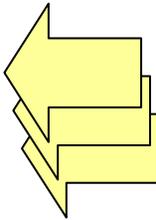
Ministry of Education, Culture, Sports,
Science and Technology (MEXT) /
Japan Aerospace Exploration Agency (JAXA)

- legally binding international agreements
- non-binding principles and technical guidelines
- **multilateral coordination mechanisms**
 - ex) the Group on Earth Observation,
the International Space Exploration Coordination
Group
- **international and regional conferences**
 - ex) Asia-Pacific Regional Space Agency Forum

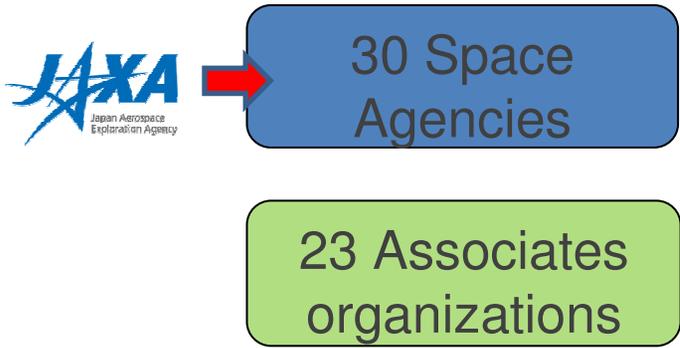
GEO/GEOSS



88+EC
Governments



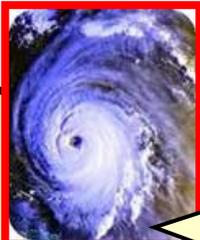
69 Organizations
(international
institutions or agencies)



GEOSS 10 years implementation plan

9 Societal Benefit Areas

①
Disasters



Disaster prevention and mitigation
Monitoring flood, earthquake,
crustal deformation, forest, biomass,
etc.

②
Health

③
Energy

④
Climate



Greenhouse gas and carbon flux

⑤
Water



Climate change and water cycle
Precipitation, cloud, aerosol, SST,
snow, ice, etc.

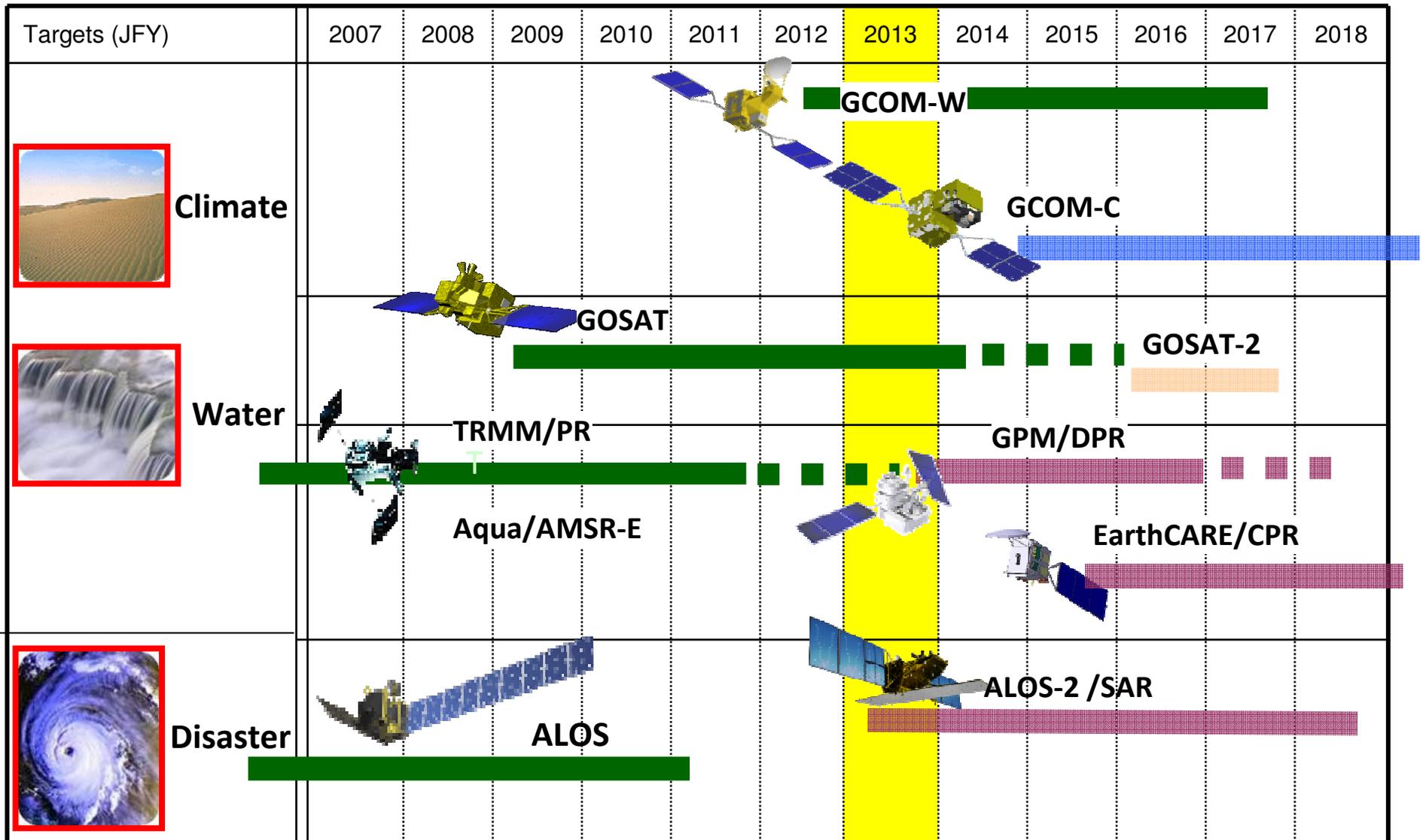
⑥
Weather



⑦
Eco-systems

⑧
Agriculture

⑨
Bio-diversity



Mission status

On orbit
 Phase C/D
 Phase B
 Phase A
 Pre-Phase A
 Extension

Participation

- Space agencies
 - Governmental bodies
 - International organizations
 - Universities
 - Research institutions
 - Private entities
- involved in space activities.

Organizers

- MEXT, JAXA
- Local host organizations.

Established in 1993 after the Asia-Pacific International Space Year Conference (APIC) in 1992.

APRSAF-19 (2012): in Malaysia



Goal

- To promote and expand space activities and their applications for socio-economic development in Asia and the Pacific.

Objectives

- Provide a forum where agencies and international organizations in the Asia-Pacific region gather to exchange views, opinions and information on space activities;

- Identify and undertake measures to contribute to the sustainable development in the region.

- Promote and expand mutually beneficial cooperation in the region.

Approach

- Open and flexible framework for cooperation;

- Participation on a voluntary basis

APRSAF : Structure



ANNUAL MEETING

Plenary Session

EO
WG

CSA
WG

SEU
WG

SEA
WG

Earth
Observation

Communication Satellite
Applications

ISS

Space Education &
Awareness



INITIA
-TIVE



Sentinel Asia



ClimateR³
Climate Regional Readiness Review



One of the **APRSAF** Initiatives : Sentinel Asia

Sentinel Asia is a voluntary initiative by a collaboration between space agencies and disaster management agencies, applying remote sensing and Web-GIS technologies to assist disaster management in the Asia-Pacific region.

In Oct 2005, APRSAF-12, in Kitakyushu, Japan, approved the plan to initiate the pilot project.



Framework of Sentinel Asia

~ Voluntary and best-efforts-basis initiative by participating organizations ~

Space Community

APRSAF*

Data Provision

Promotion of Utilization

Capacity Building

* Asian-Pacific Regional Space Agency Forum

Disaster Management Community

ADRC**
Member Countries

Utilization (User)

** Asian Disaster Reduction Center

Sentinel Asia

Joint Project Team (JPT)

Join Project Team consists of total 88 organizations including 74 organizations of 25 countries/region and 14 international organizations as of March 2013

JAXA is the secretariat of JPT.

International Community

UN / ESCAP UN / OOSA
ASEAN AIT etc.

International Cooperation

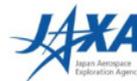
JPT meeting in Daejeon, Korea in November 2012



International Space Exploration Coordination Group (ISECG)

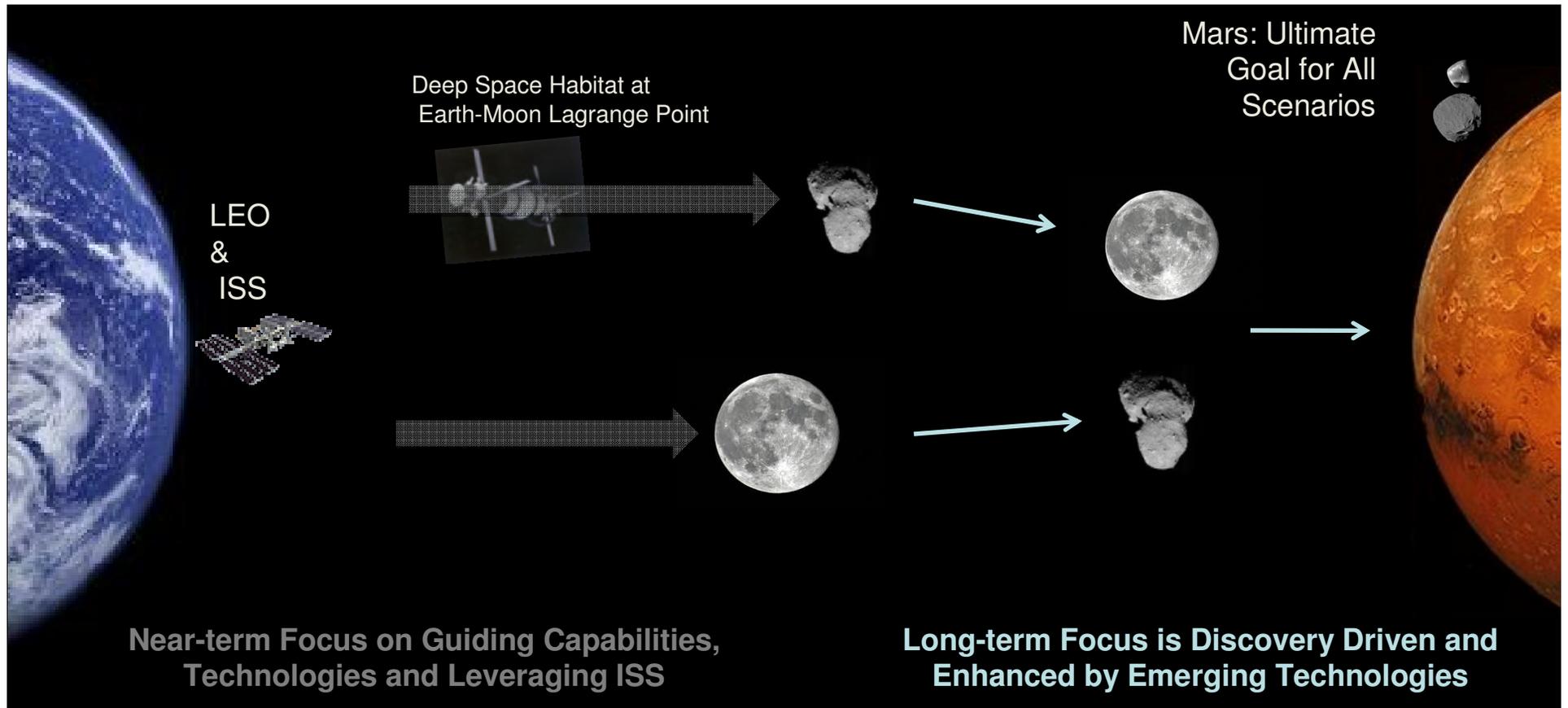


- Established in 2007; and 14 space agencies attending
- Discusses globally coordinated human and robotic exploration of human-reachable destinations in decades
- Coordination forum working in a non-binding, consensus-driven manner
 - To discuss interests, objectives and plans
 - To develop conceptual products
 - To enable multilateral or bilateral partnerships necessary to accomplish complex exploration missions
 - To promote interest and engagement in space exploration among citizens and society



A long-range exploration strategy

Exploration Pathways



The Global Exploration Roadmap: GER



Contents of GER

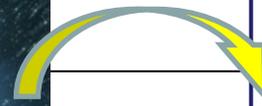
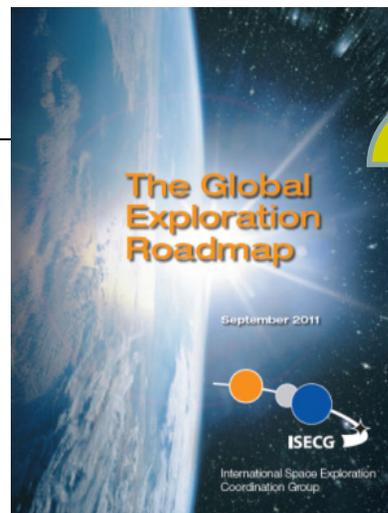
1.Introduction

2.Common Goals and Objectives of Space Exploration

3.Mapping the Journey: Long-Range Human Exploration Strategy

4.Human Exploration Preparatory Activities

5.Conclusion



Basic Plan for Space Policy
by Japanese Government,
January 2013

Conclusion

- It is valuable for Member States to take stock of the range of the various categorized mechanisms employed by Member States with a view to identifying common principles and procedure under the new agenda item.
- On the occasion of the discussion under this new agenda item, international cooperation mechanisms based on non-binding agreement are also important and play a key role to challenge and advance the peaceful exploration and use of outer space.
- Since it is meaningful to review a number of existing cooperation, get the overview of different forms of cooperation and analyze their pattern, Japan would like to make contribution to the new agenda item as much as possible.