

Overview of Sentinel Asia Status



November 1, 2018

Sentinel Asia Steering Committee Secretariat
Japan Aerospace Exploration Agency



Member Status

(As of October 31, 2018)

Space Community

APRSAF

Satellite Image

Promotion of Utilization

Capacity Building

SENTINEL ASIA

92 organizations from **28** countries & regions and **16** international organizations
In total: 108 organizations

*Three members are increased from last meeting

Joint Project Team (JPT)

International Community

**UNESCAP, UNOOSA
 ASEAN, AIT and
 International Disaster Charter
 etc.**

International Cooperation

Disaster Reduction Community

**ADRC
 Member Countries
 (31 member countries)**

Disaster Information

Utilization (User)



New Members

- (1) June 2018, Vietnam Institute of Geosciences and Mineral Resources (VIGMR) : Vietnam

- (2) August 2018, Myanmar Information Management Unit (MIMU) : Myanmar



Data Provider Node (DPN)

International Charter

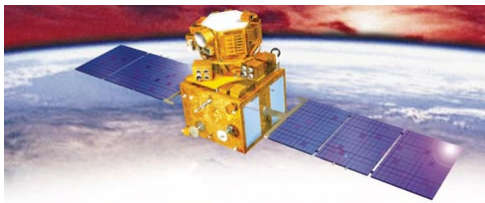


Sentinel Asia Constellation

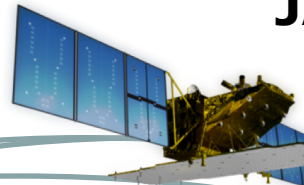
contributing to Emergency Observations

ISRO

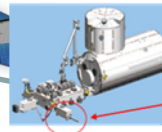
RESOURCESAT-2, OCEANSAT-2/OCM
IMS-1, CARTOSAT-1&2, RISAT-1



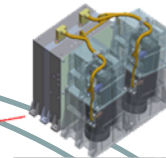
JAXA



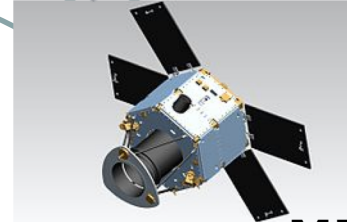
ALOS-2



KIBO HDTV-EF2



escalation from Sentinel Asia



MBRSC

DubaiSat-2

NARLabs

Sentinel Asia Constellation

GISTDA

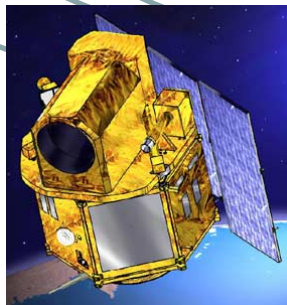
STI/VAST



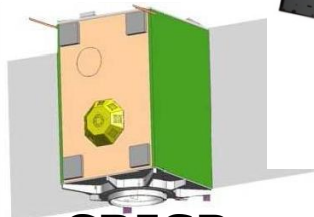
VNREDSat-1A

KARI

KOMPSAT-1



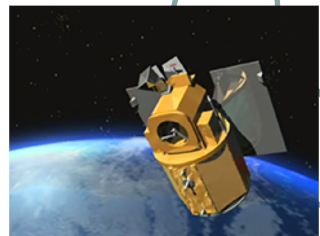
THEOS



CRISP

XSAT

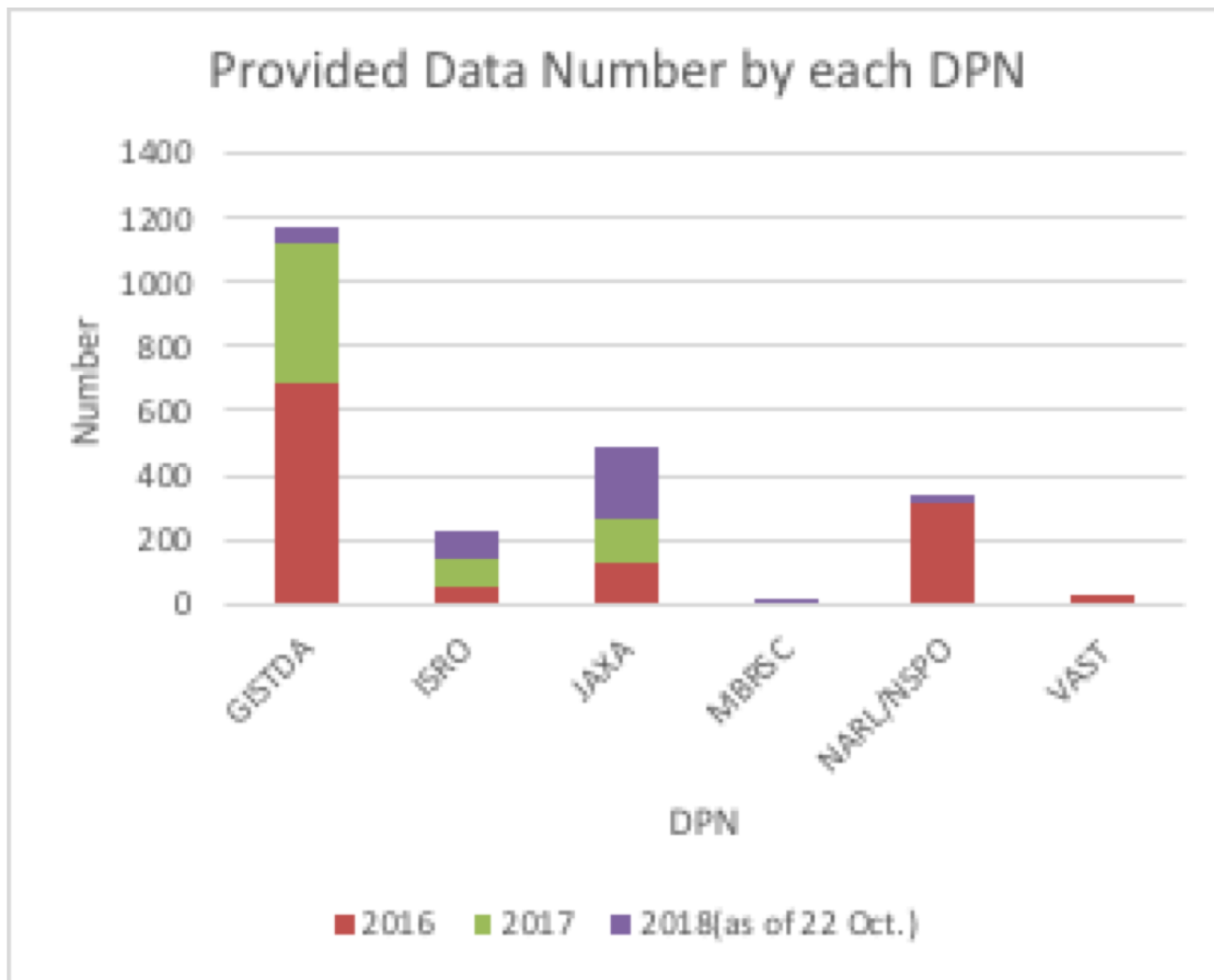
FORMOSAT-5
(provided satellite image from July, 2018)





Data Provider Node (DPN)

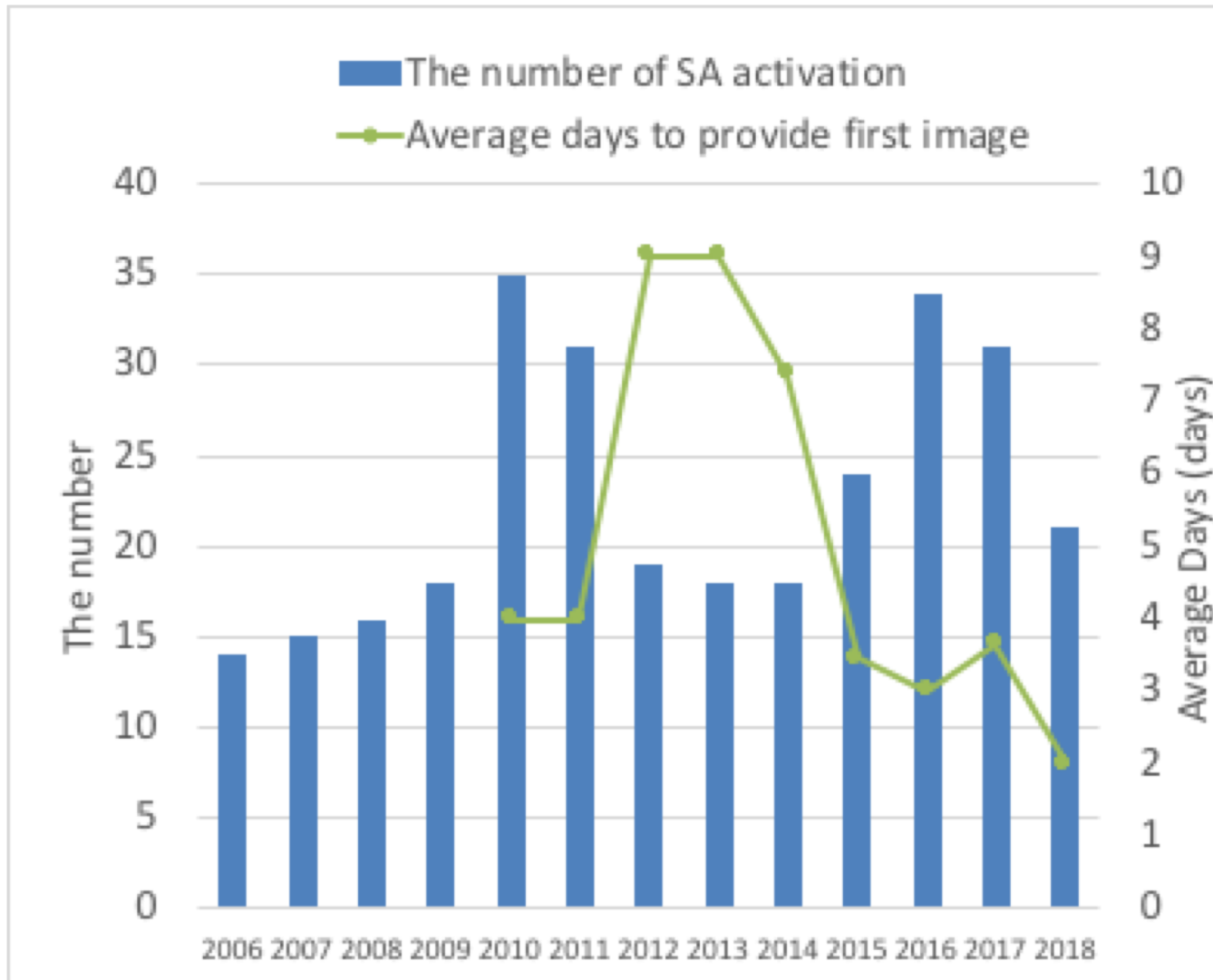
Sentinel Asia Constellation contributing to Emergency Observations





Data Provider Node (DPN)

Sentinel Asia Constellation contributing to Emergency Observations



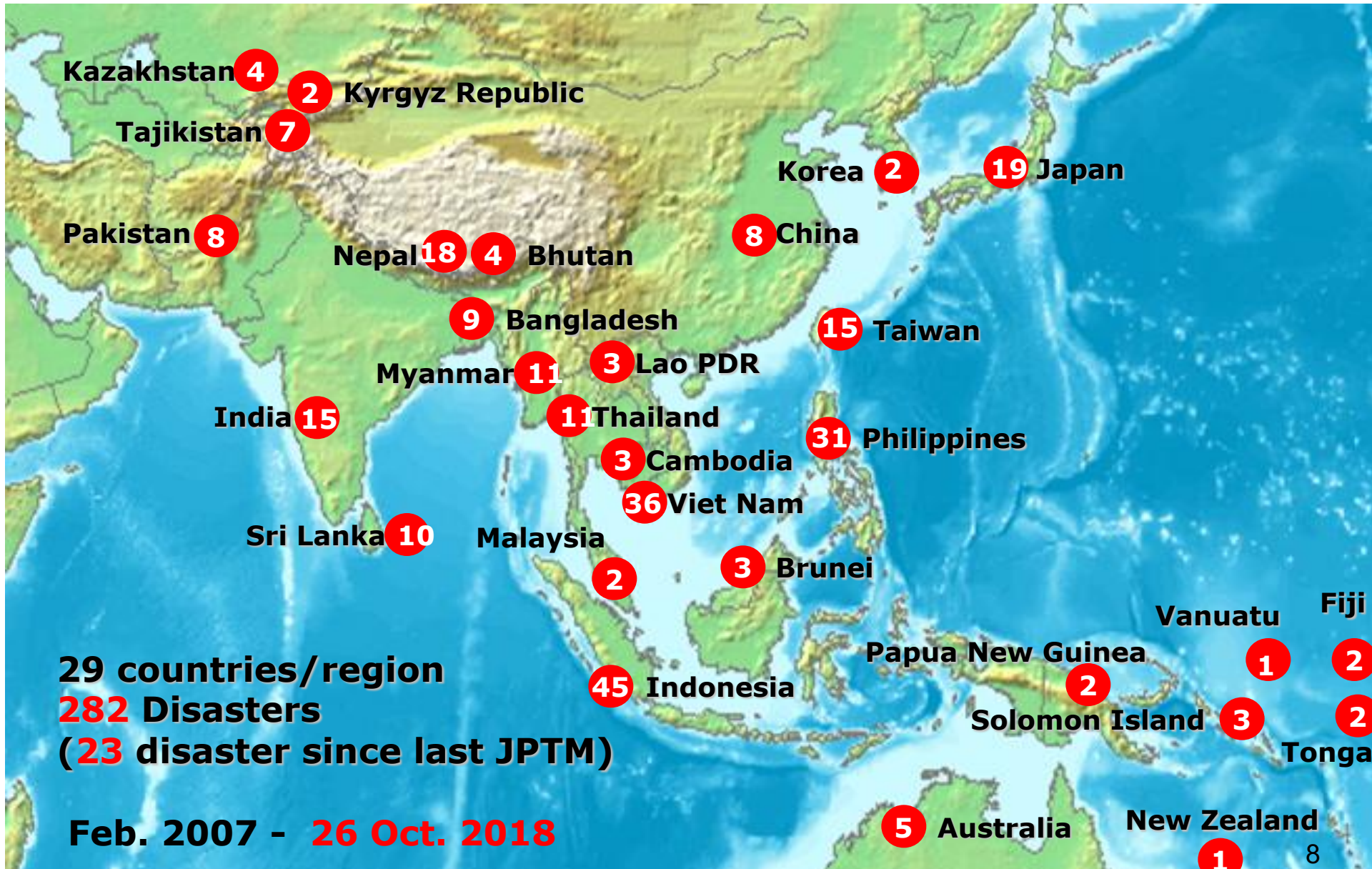


Events

- **Sentinel Asia Joint Project Team Meeting
November 1-2, 2018, in Awaji, Japan**
- **Asia Pacific Space Agency Forum (APRSAF)-25
November 6-9, 2017 in Singapore**
- **Sentinel Asia Steering Committee meeting,
January, 2018, in Siracha, Thailand**



EOR Review, Responded Disaster by Geographical Distribution





Emergency Observation Request (EOR) Review (1/4)

Country	Region	Type	Date of Implementation	Charter Escalation	Requester
Philippines	M. Mayon	Volcanic Eruption	2018/1/15	YES	PHIVOLCS
PNG	Kadovar island	Volcanic Eruption	2018/1/20	YES	DMC
Taiwan	Hualien	Earthquake	2018/2/7		NARL
Korea	Pohang	Earthquake	2018/2/13		NDMI
Tonga	Whole country	Cyclone	2018/2/12		SPC
Sri Lanka	Western Province, Southern Province	Flood	2018/5/22		DMC
Vietnam	The North-western of Vietnam	Flood and Landslide	2018/6/25		MONRE/DMPTC

Emergency Observation Request (EOR) Review (2/4)

Country	Region	Type	Date of Implementation	Charter Escalation	Requester
Japan	Western Japan	Flood	2018/7/7	YES	JAXA/CAO
Thailand	Southern of Thailand	Oil Spill	2018/7/10		GISTDA
Vietnam	Northern Midlands of Vietnam and provinces from Thanh Hoa to Quang Binh	Flood	2018/7/20		MONRE/DMPTC
Laos	Attapeu province in south-east Laos	Flood	2018/7/25		ADPC/DSW
Myanmar	Bago Region, Mon State and Kayin State	Flood	2018/7/29		RRD
Indonesia	Lombok island	Earthquake	2018/7/30		LAPAN/BNPB



Emergency Observation Request (EOR) Review (3/4)

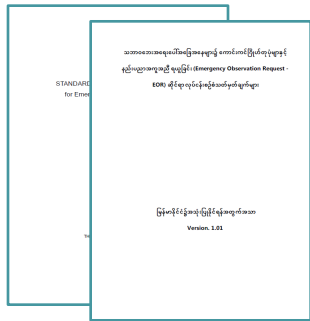
Country	Region	Type	Date of Implementation	Charter Escalation	Requester
Indonesia	Lombok island	Earthquake	2018/8/6		AHA Centre
Thailand	Sakon Nakhon Province in northeaste Thailand	Flood	2018/8/6		GISTDA/DDPM
India	Kerala State in South India	Flood	2018/8/11		ISRO/DMO
Taiwan	Chiayi and its around area	Flood	2018/8/27		NARL/NCDR
Vietnam	Mekong Delta	Flood	2018/8/29		MONRE/DMPTC
Myanmar	Bago Division	Flood	2018/8/31		RRD/DDM
Japan	Iburi region of Hokkaido	Earthquake	2018/9/6		JAXA/MLIT

Emergency Observation Request (EOR) Review (4/4)

Country	Region	Type	Date of Implementation	Charter Escalation	Requester
Philippines	Northern part of Luzon island	Typhoon	2018/9/13	YES	AHA Centre/NDRRMC/MO
Vietnam	Northern part of Vietnam	Typhoon	2018/9/17		MONRE/DMPTC
Indonesia	Central Sulawesi	Earthquake	2018/9/28	YES	AHA Centre/LAPAN

Developing Standard Operation Procedure (SOP) for Sentinel Asia

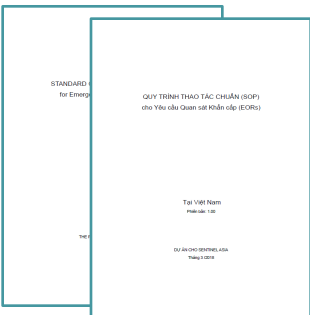
The purpose of SOP is to make clear each role and to strengthen the network between JPT members and other agencies in Myanmar, Thailand and Viet Nam.



English and Myanmar language



English and Thai language



English and Vietnam language

[Table of Contents (Myanmar version)]

1. Preface

- 1-1. Introduction
- 1-2. Objectives
- 1-3. Essential Conditions
- 1-4. Member List in Myanmar
- 1-5. Scope of this Manual

2. Discussion for EOR among Members in Myanmar

- 2-1. Disaster Information Sharing
- 2-2. Confirmation for EOR

3. Preparing and Submitting EOR Sheet

- 3-1. About EOR Sheet
- 3-2. Preparing EOR Sheet
- 3-3. Submitting EOR Sheet

4. Registration into Sentinel Asia Server

- 4-1. About Sentinel Asia Server
- 4-2. User Name and Password for Sentinel Asia Server
- 4-3. Registration Disaster Information into Sentinel Asia Server

5. Providing Disaster Information and Feedbacks



Conducting workshops in 3 countries for SOP



In Myanmar

Date: 30 January 2018

Venue: Horizon Lake View Resort

Participants: 39
(RRD, DMH, ADPC, MIMU, One map Myanmar, etc.)



In Thailand

Date: 22 February 2018

Venue: Wayupak Convention Center

Participants: 21
(DDPM, GISTDA, MOI, RID, DWR, RFD, ADPC, etc.)



In Vietnam

Date: 19-20 March 2018

Venue: STI building

Participants: 36
(STI, MONRE, DMPTC, etc.)

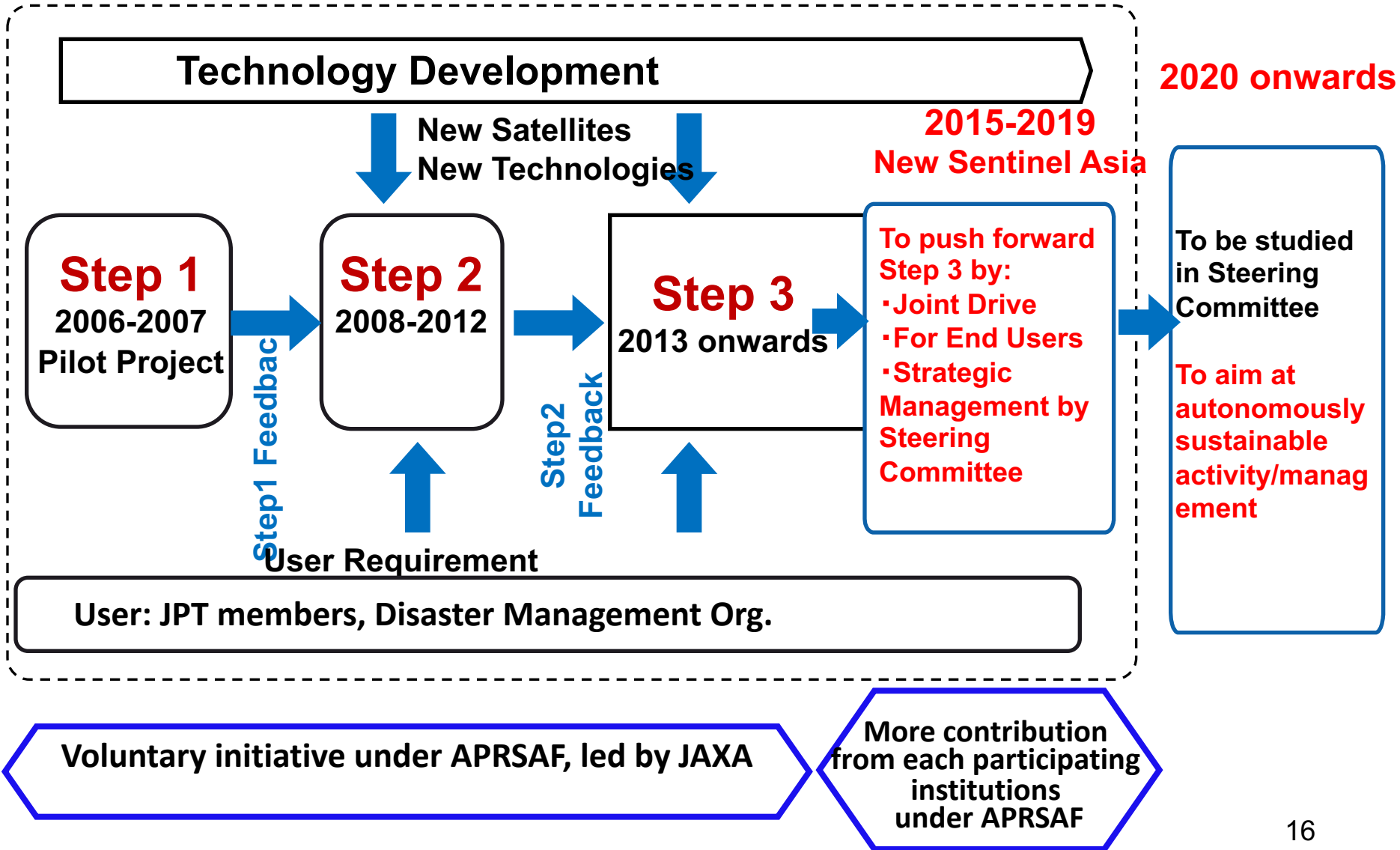
Sentinel Asia Facebook is OPEN for SA members.

<https://www.facebook.com/groups/426566401118586/>

The image shows a screenshot of the Sentinel Asia Facebook group page. The top navigation bar includes the JAXA logo, the group name 'Sentinel Asia Community', and user profile information for '川北 史朗'. The main content area features a large group photo of members at a conference, with a banner that reads 'SENTINEL ASIA COMMUNITY'. Below the photo are navigation options: '参加してるで', 'お知らせ', 'わけわけ', and 'その他'. The left sidebar contains navigation tabs: '基本データ', 'ディスカッション', 'チャット', 'メンバー', 'イベント', '動画', and '写真'. Below these are search and shortcut options. The right sidebar shows 'メンバーを追加' and a list of members, including '岩崎 知宏', 'Teisuke Morimoto', and '上村 俊作'. At the bottom, a post from 'Asia Sentinel' is visible, dated 10月11日, with the text 'EOR related to Tropical Cyclone in OMAN and UAE is activated now.' and a link to 'https://sentinel.tksc.jaxa.jp/sentinel2/emobSelect.isp'.



Sentinel Asia Evolution





Summary

- JPT members is over 100 organizations.
- 23 emergency observation requests were implemented in Sentinel Asia since 5th JPTM. Four requests were escalated to International Disaster Charter.
- Steering Committee continuously has established strategic plan for the next 10 years.