Trend of Emergency Observation Requests

6th Joint Project Team Meeting for Sentinel Asia STEP3 (JPTM2018) ,

Awaji Island, Hyogo, Japan

1-2, November 2018

Makoto IKEDA, Ph.D.

Asian Disaster Reduction Center (ADRC)

Sentinel Asia and its Contributions

- Sentinel Asia is a voluntary initiative between **space agencies** and **disaster management agencies** to apply Remote Sensing and Web-GIS technologies to assist disaster management in the Asia-Pacific region.

- Sentinel Asia aims to:
  - ✓ Improve safety in society by ICT and space technology
  - ✓ Improve speed and accuracy of disaster preparedness and early warning
  - ✓ Minimize the number of victims and social/economic losses.

Members of Sentinel Asia

- *Sentinel Asia organizes Joint Project Team (JPT), and JPT consists of **108 organizations** including **92 agencies from 28 countries/region** and **16 international organizations**. (as of September 2018)*

- *Sentinel Asia cooperates **with ADRC and their members closely**, and they are also member of Sentinel Asia as well.*

* DMO in Turkey was joined as ADRC member in Oct 2018

Space Community

Disaster Reduction Community

SENTINEL ASIA

APRSAF

Satellite Image

Promotion of Utilization

Capacity Building

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

ADRC Member Countries (31 member countries)

Disaster Information

Utilization (User)

Joint Project Team (JPT)

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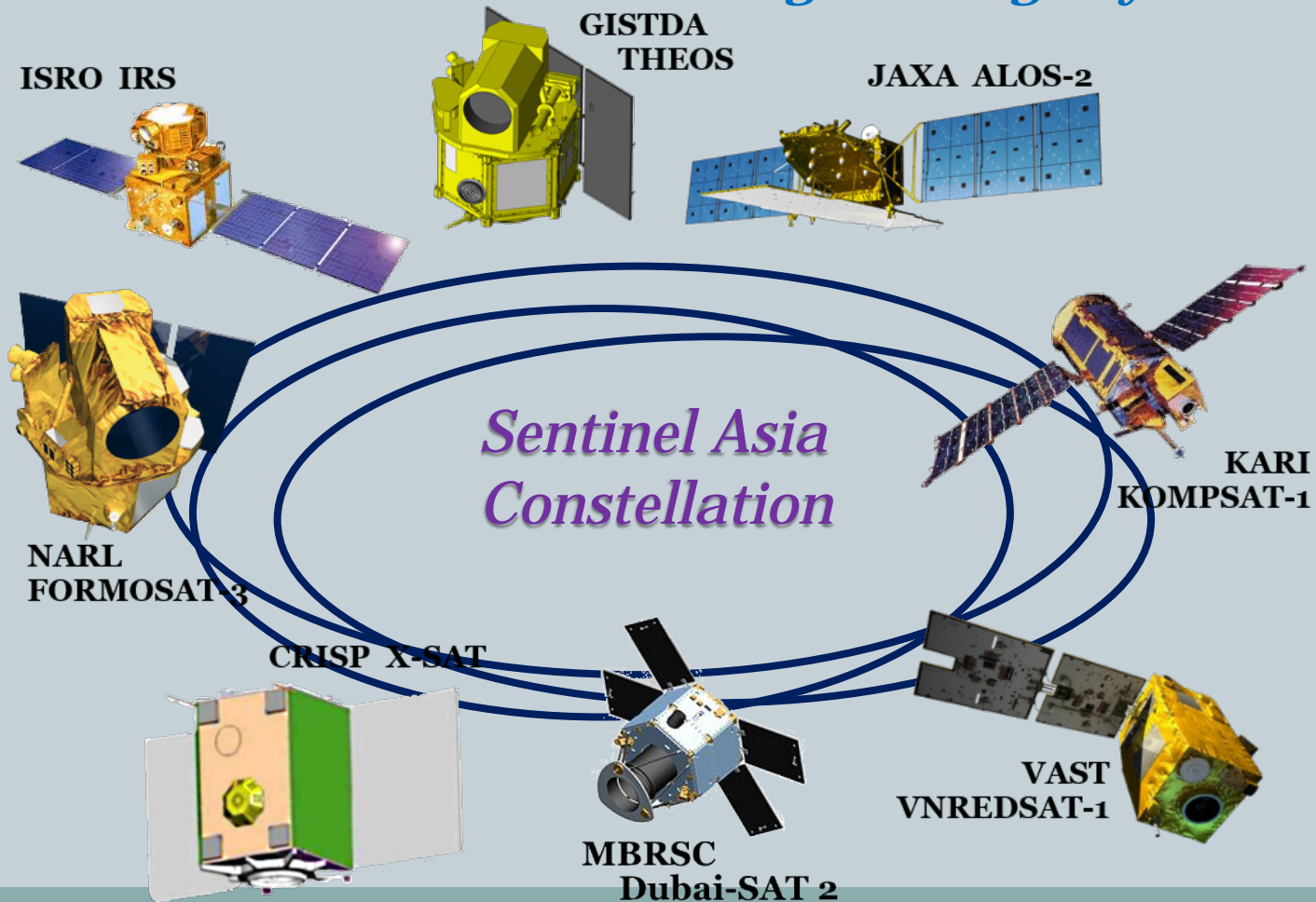
UNESCAP, UNOOSA ASEAN, AIT and International Disaster Charter **etc.**

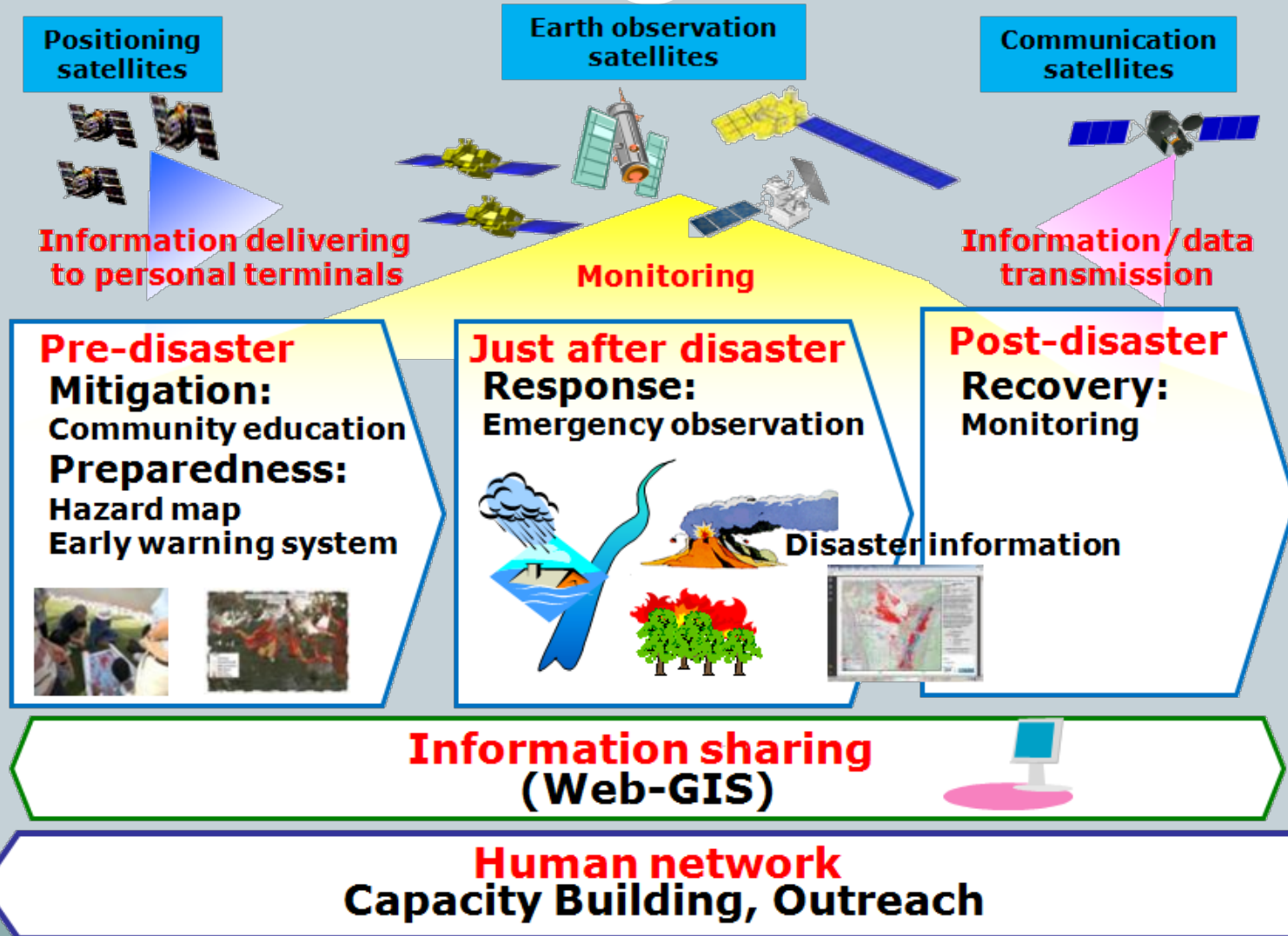**International Cooperation**

Data Provider Node (DPN)

Sentinel Asia Constellation contributing to Emergency Observation
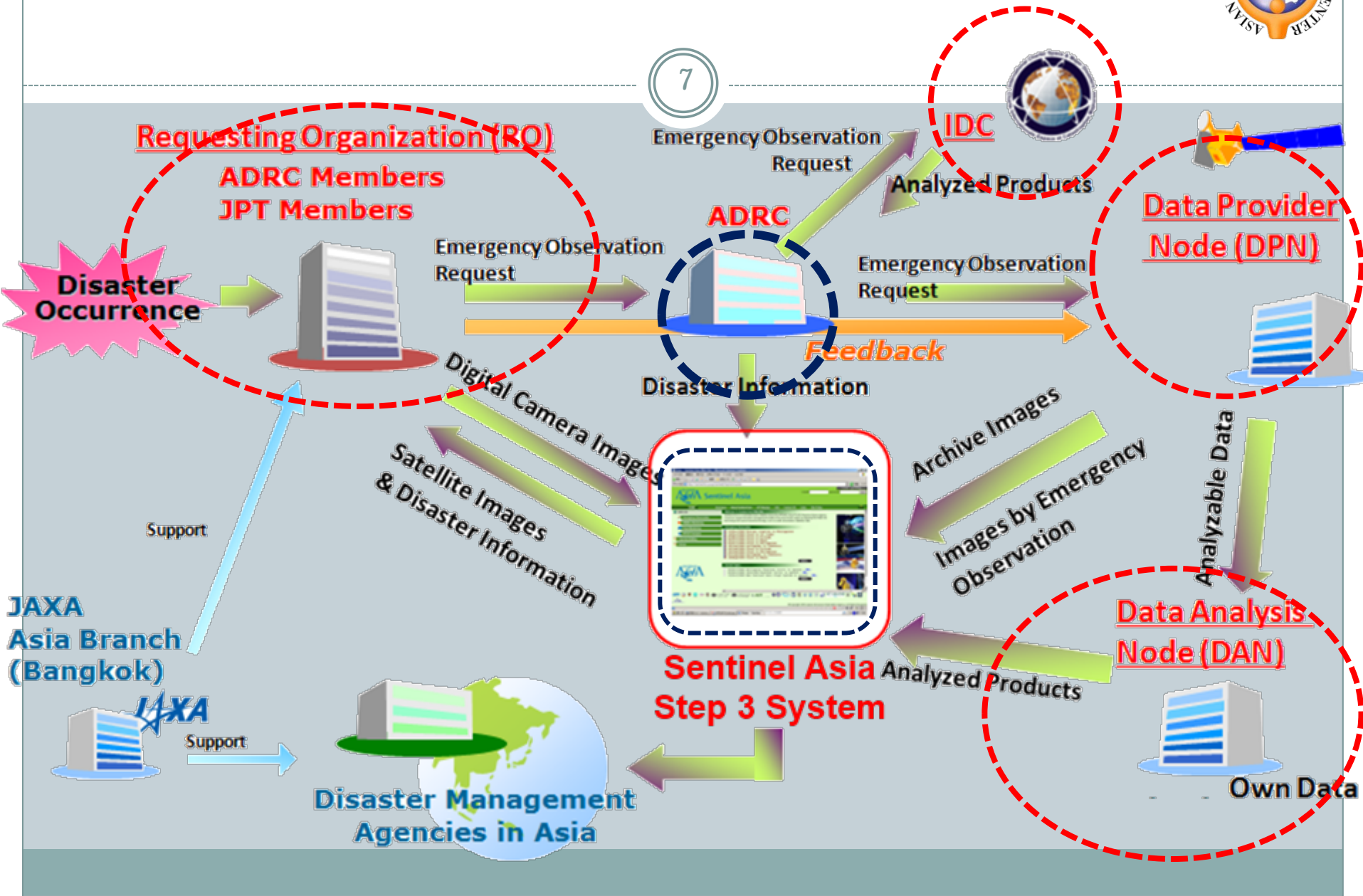
Concept of Sentinel Asia Step 3

Emergency Observation Request

Requesting Organization (RO)
ADRC Members
JPT Members

Emergency Observation Request

IDC

Analyzed Products

Data Provider Node (DPN)

ADRC

Disaster Occurrence

Emergency Observation Request

Emergency Observation Request

Feedback

Digital Camera Images

Disaster Information

Satellite Images & Disaster Information

Archive Images

Analyzable Data

Images by Emergency Observation

Sentinel Asia Step 3 System

Analyzed Products

Data Analysis Node (DAN)

Support

JAXA Asia Branch (Bangkok)

JAXA

Support

Disaster Management Agencies in Asia

Own Data

Latest EOR Form (updated as of Jan 2018)

- The default method for the initiation of an EOR for Request Organization(RO) is to complete the online form at:

https://sentinel.tksc.jaxa.jp/sentinel2/libraryControl.jsp

SENTINEL ASIA
EMERGENCY OBSERVATION REQUEST (EOR) FORM (1/2)

Requester (your name and organization)

Your name	
Your organization	
	Membership: □JPT member □ADRC member
Your phone	
Your cellular phone	
Your fax	
Your E-mail	
Other E-mail(s) for notification	

Contact Person
※Fill in below in case different from the Requester

Name	
Organization	
Phone	
Cellular phone	
E-mail	
Other E-mail(s) for notification	

Disaster Management Organization

ADRC is the first point of contact in the Sentinel Asia EOR process. Local information by Disaster Management Organizations (DMOs) is quite essential to undertake the first evaluation of an EOR and judges the Sentinel Asia framework is suitable to assist. To proceed the EOR process, ADRC may contact with DMOs. Please provide following information.

Organization Name	
E-mail	
Other relevant information	

Planned end-user of the observed information

Please provide us information, to the best of your knowledge, as to which organization (e.g. Disaster Management Organization), agency, or community will utilize the satellite image. ADRC may ask some questions to concerned organization, if needed.
□The information/image shall be used only for our organization
Please state your role in the organization during disaster response (monitoring and warning)
□The information will be provided to other relevant organization/s.
Please fill in the name of the organization (   )

Purpose of the Request
How does your organization intend to use the satellite data?

□Emergency Response
   (□Situation confirmation, □Rescue activity, □Evacuation activity,
     □Others[   ]
□Damage and Loss Assessment(DaLA)/Post Disaster Needs Assessment(PDNA)
□Recovery Planning
□Detection of an advance warning of hazardous situation
□Others(   )

Type of Disaster

□Flood   □Flash Flood   □Landslide   □Storm   □Forest fire   □Volcano   □Earthquake
□Ice Hazard   □Tsunami   □Oil Spill   □Others(   )

Analysis requirement for damages

□ Building Damage   □ Infra. Damage   □ Lahar
□ Others(   )

Request for Data Analysis Node (DAN) (Multiple Choice Allowed)

□Ourselves   □DANs in own country   □P-DAN   □OTHERS (   ) □ No request

Time limit for information to be uploaded on the SA WEB-portal (from date of SA activation)

□ Less than 24 hours   □ Not exceed 4 days   □ Not exceed 10 days   □ Others:
※Based on the expected time limit, there might be cases where the delivery of information will be difficult to meet or the product to be delivered is assessed to be not enough at a given time. In such cases, we may not trigger Sentinel Asia.

Date of Occurrence

Date and time(UTC)	

Details, news source

Place of occurrence

Country	

Request area

Name of a place	

Please select one (If there are some AOIs, add AOI in order of priority.)

□ Circular zone	Coordinates of centre point Latitude : ° N／E Longitude: ° Radius : km
□ Rectangular zone	Coordinates of corners Lat. : ° ' " N／E Lon.: ° ' " Lat. : ° ' " N／E Lon.: ° ' "

Necessity for Additional Observation

□Necessary   □Not necessary   □Don't known

The requesting organization (RO) may further ask whether to escalate this EOR to International Charter for Space and Major Disasters (IDC) when secretariat confirms its appropriateness.
If RO wishes to escalate to IDC, please check the box on the right.

Escalate

Please send the completed form to ADRC
(Fax) +81-78-262-5546 or (E-mail) serequest@adrc.asia

Request ID
(To be filled by ADRC)

Sentinel Asia WEB

Login
(need your own ID and Password)

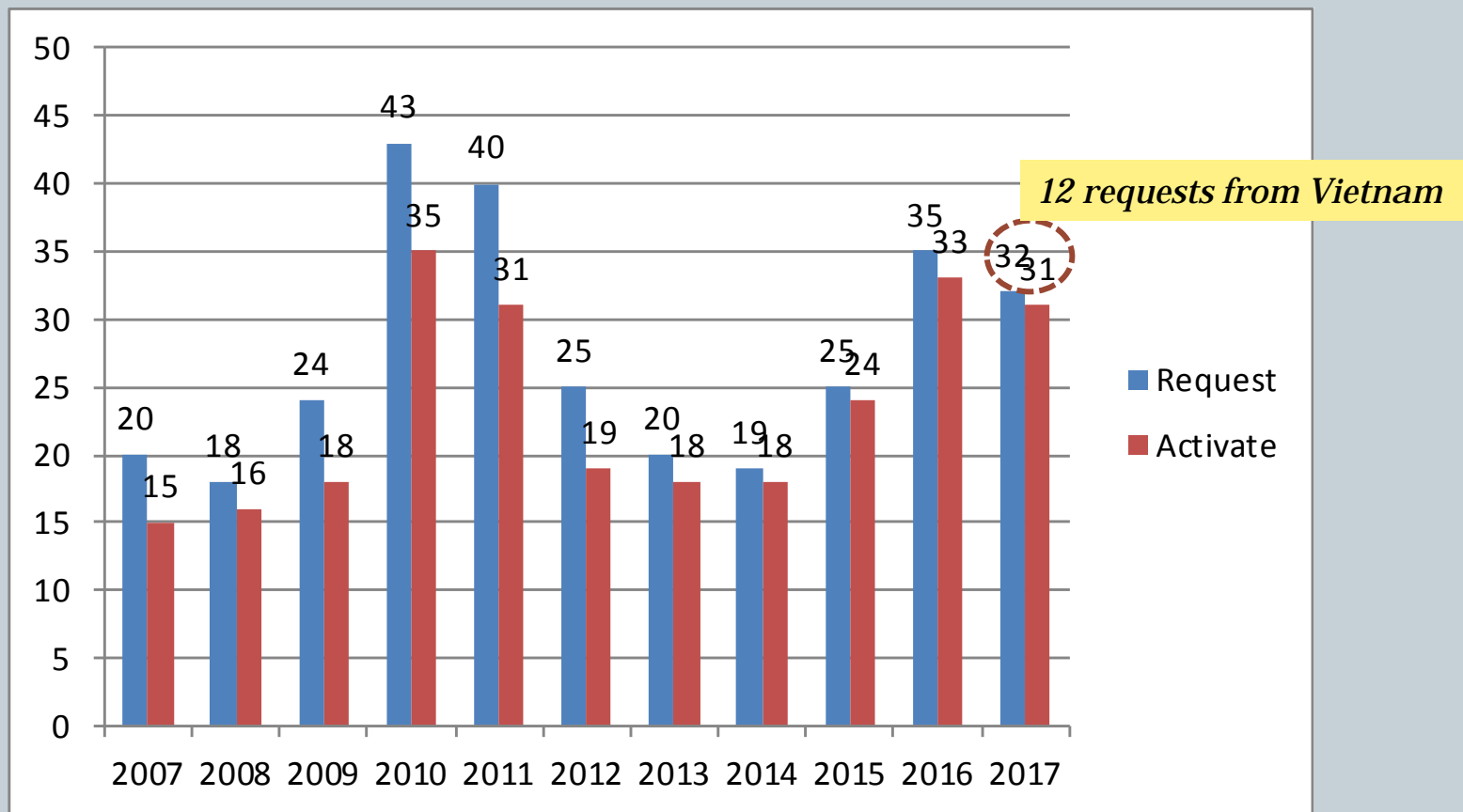Emergency Obs. Request

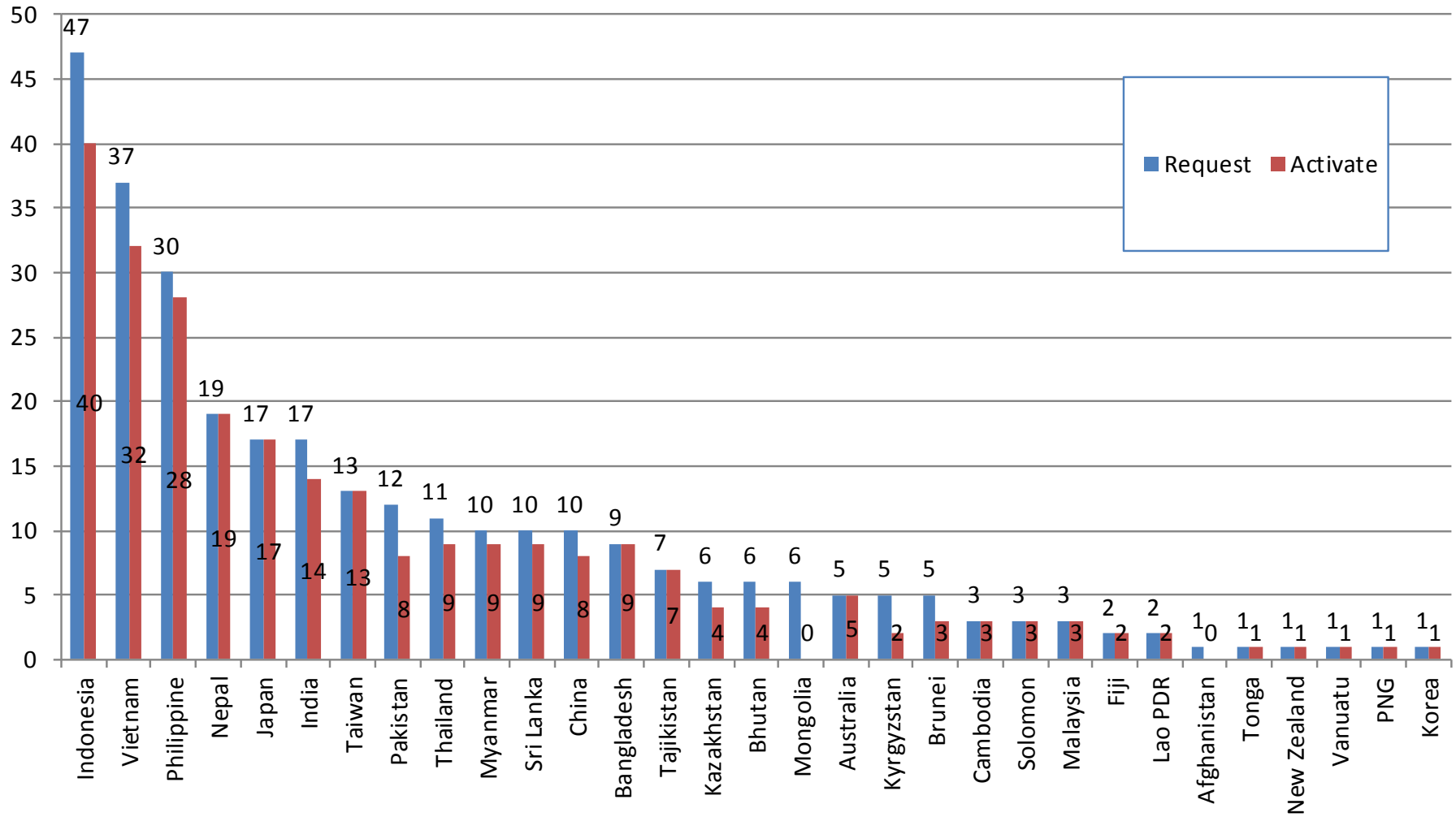input the information of the EOR sheet

Register

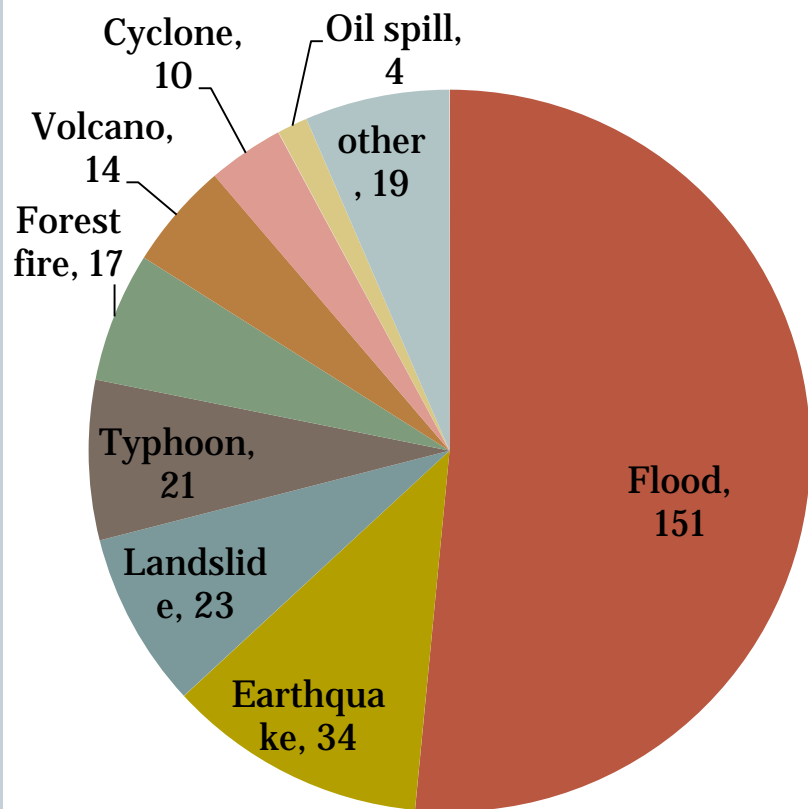# Number of EOR (2007-2017) *as of 31 Dec 2017

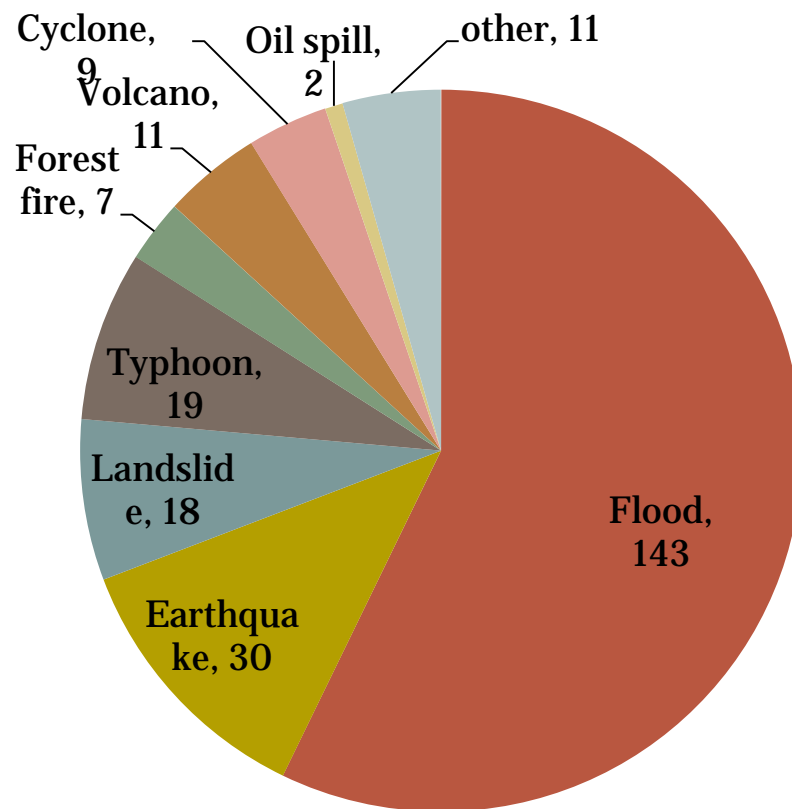Sentinel Asia accepted 301 requests, 258 were activated.

The status of implementation for each country/region (2007-2017) *as of 31 Dec 2017

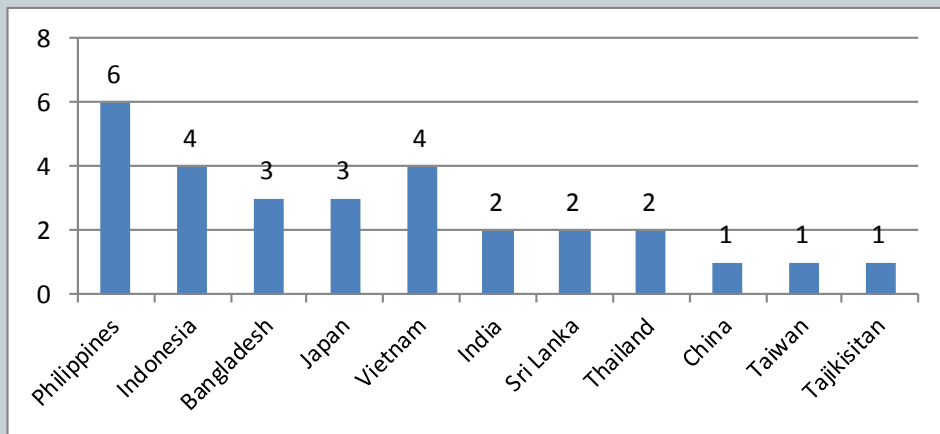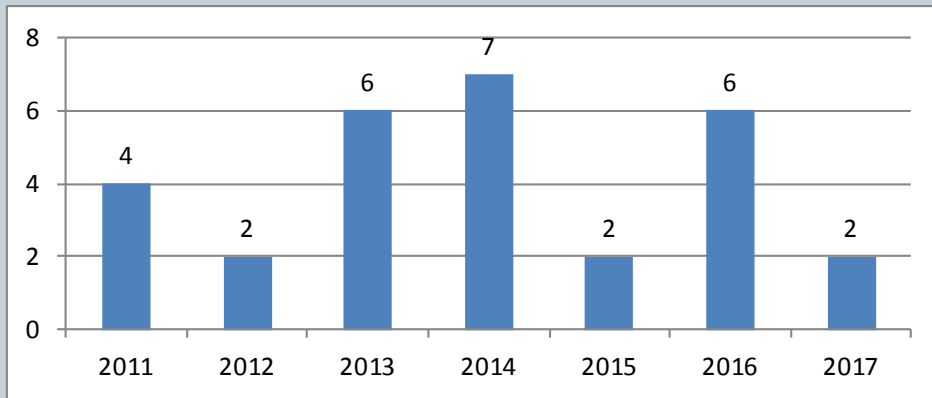# Type of Disaster (2007-2017) *as of 31 Oct 2017
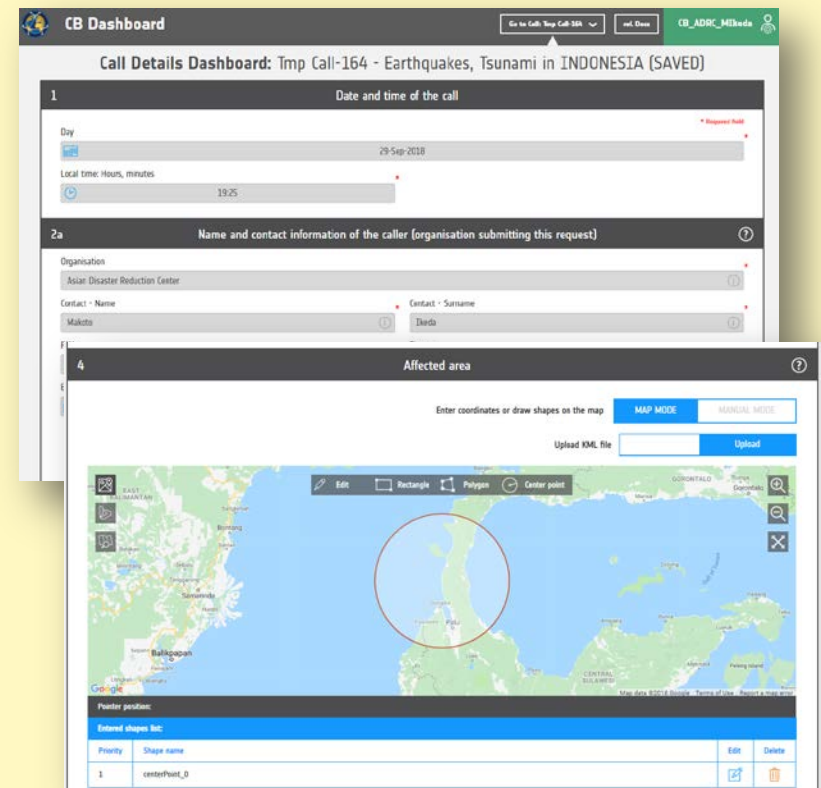

Request

Activate

Number of Escalation to IDC (2007-2017) *as of 31 Dec 2017

ADRC already had 5 IDC escalations in 2018. It is easy to access for escalation by using new system "COS-2".

Strengthen network between space agency and disaster management organization
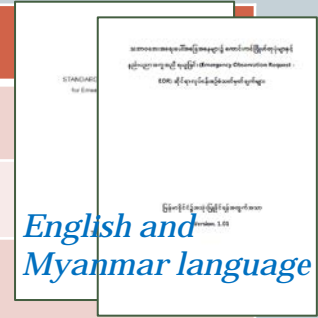

In Myanmar

Date: 30 January 2018

Venue: Horizon Lake View Resort

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

English and Myanmar language

In Thailand

Date: 22 February 2018

Venue: Wayupak Convention Center

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

English and Thai language

In Vietnam

Date: 19-20 March 2018

Venue: STI building

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

English and Vietnam language

ADRC promotes disaster risk reduction through multi-national/multi-stakeholder/multi-lateral cooperation in the Asian region.

ASIAN DISASTER REDUCTION CENTER

http://www.adrc.asia

Thank you very much