



Status of Sentinel Asia Success Story



1st JPTM for Sentinel Asia Step3
27-29 November 2013, Bangkok

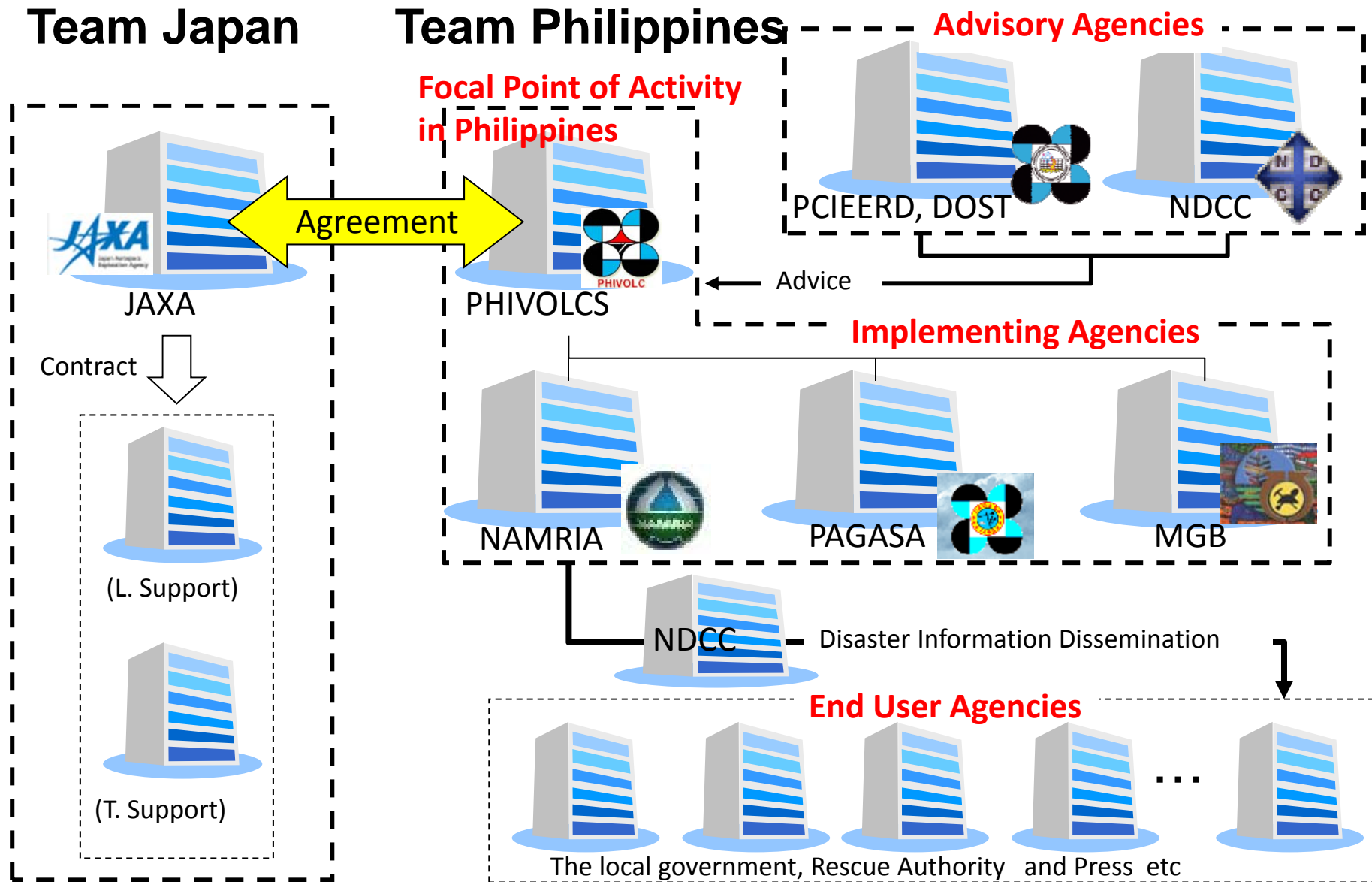
Kazuya Kaku
JPT Secretariat
Japan Aerospace Exploration Agency

Sentinel Asia Success Story

- Regional cooperation to promote utilization of Sentinel Asia by end-users
 - Local awareness and knowledge transfer through capacity building
 - Human resources and human network development
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- Success Story in the Philippines (PHSS) from 2009
 - EO (Emergency Observation) Success Story by Mini-Project in Sri Lanka, the Philippines, Bangladesh, and Myanmar from 2013 (EO-SS)

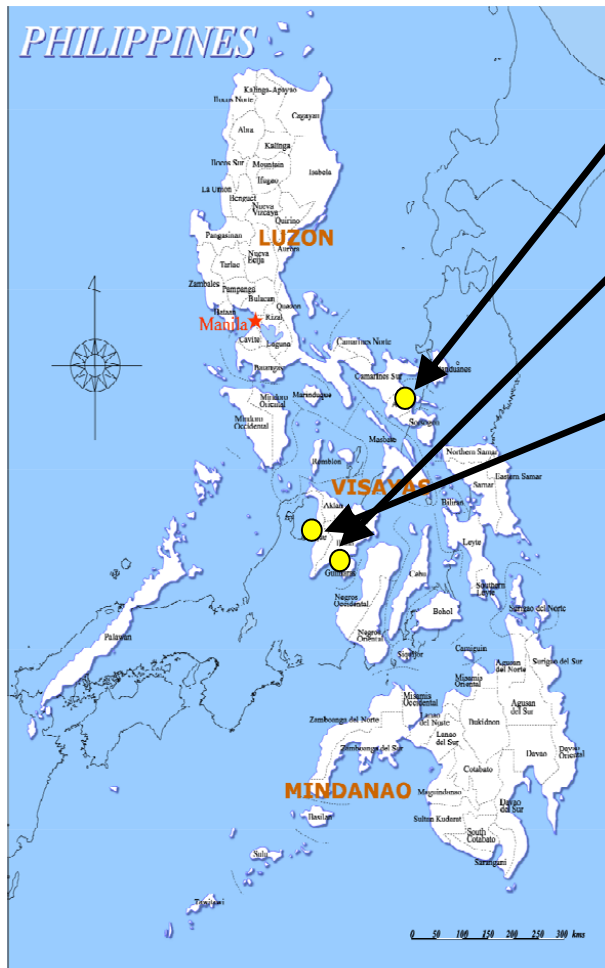
*Sentinel Asia Success Story
in the Philippines (PHSS)*

Framework of Sentinel Asia Success Story in the Philippines



Success Story in the Philippines (1st Phase: 2009-2010)

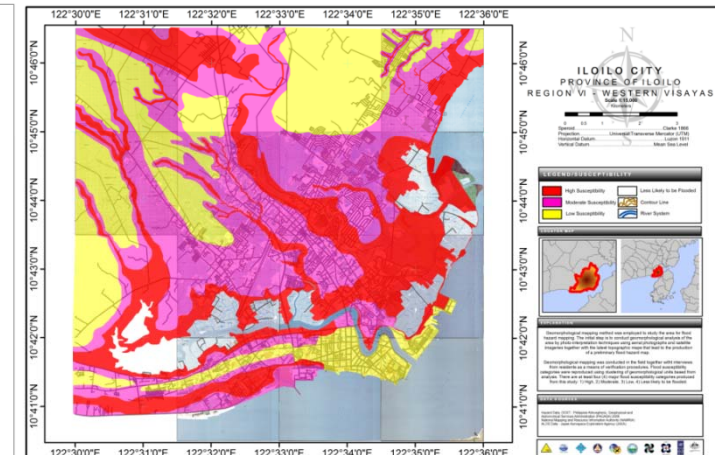
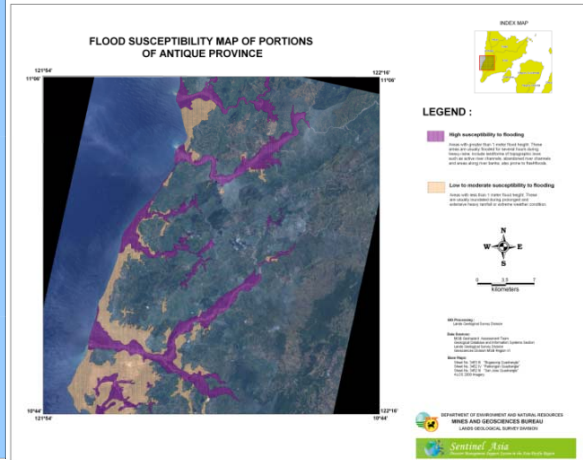
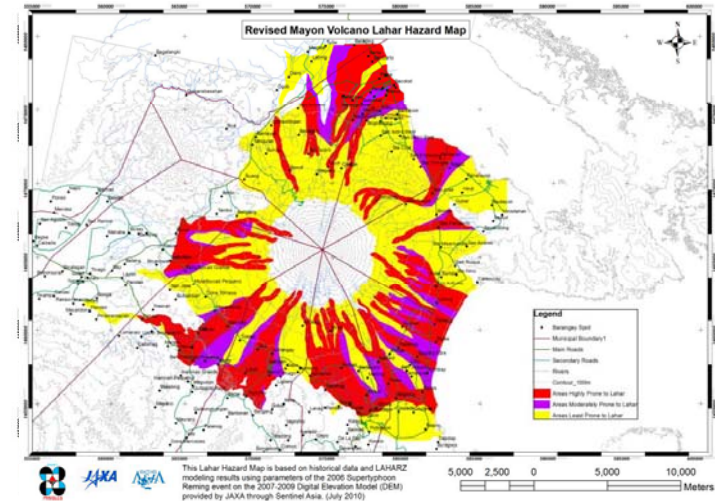
Hazard maps (Flood, Lahar and Landslide) of 3 study areas (Antique, Iloilo and Mt. Mayon) were created by using ALOS Pansharpen Image and DSM.



Lahar - Mt. Mayon
(PHIVOLCS)

Flood - Iloilo City
(PAGASA)

Landslide - Antique
(MGB)



Success Story in the Philippines (2nd Phase: 2011 onwards)

Application of **GSMaP** for **Landslide Warning**, and **Interferometry** for monitoring of **Land Subsidence** and **Earthquake/Volcanic Eruption** have been studied.



Volcano & Earthquake Monitoring

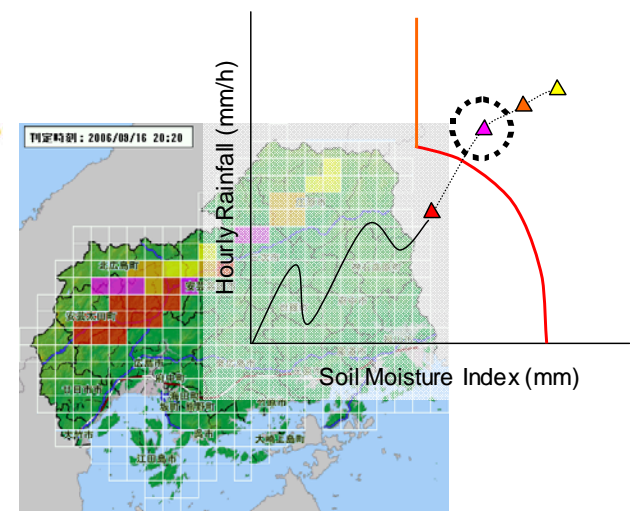
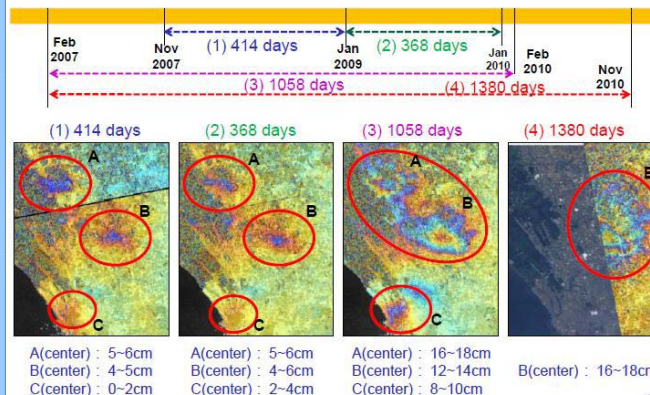
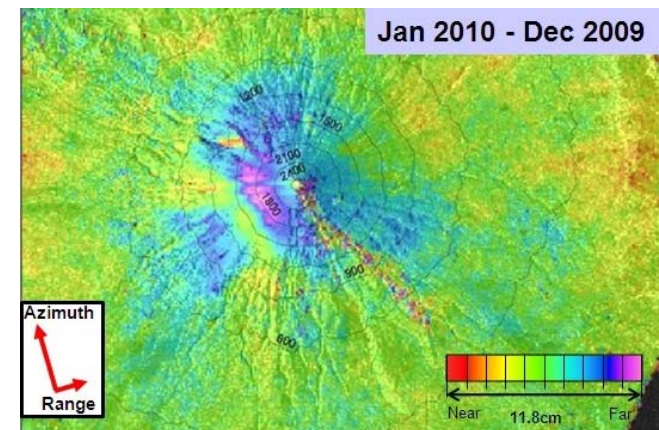
- Mt. Mayon, Mt. Taal & Valley Fault

Landslide Warning

- Albay

Land Subsidence

- near Manila



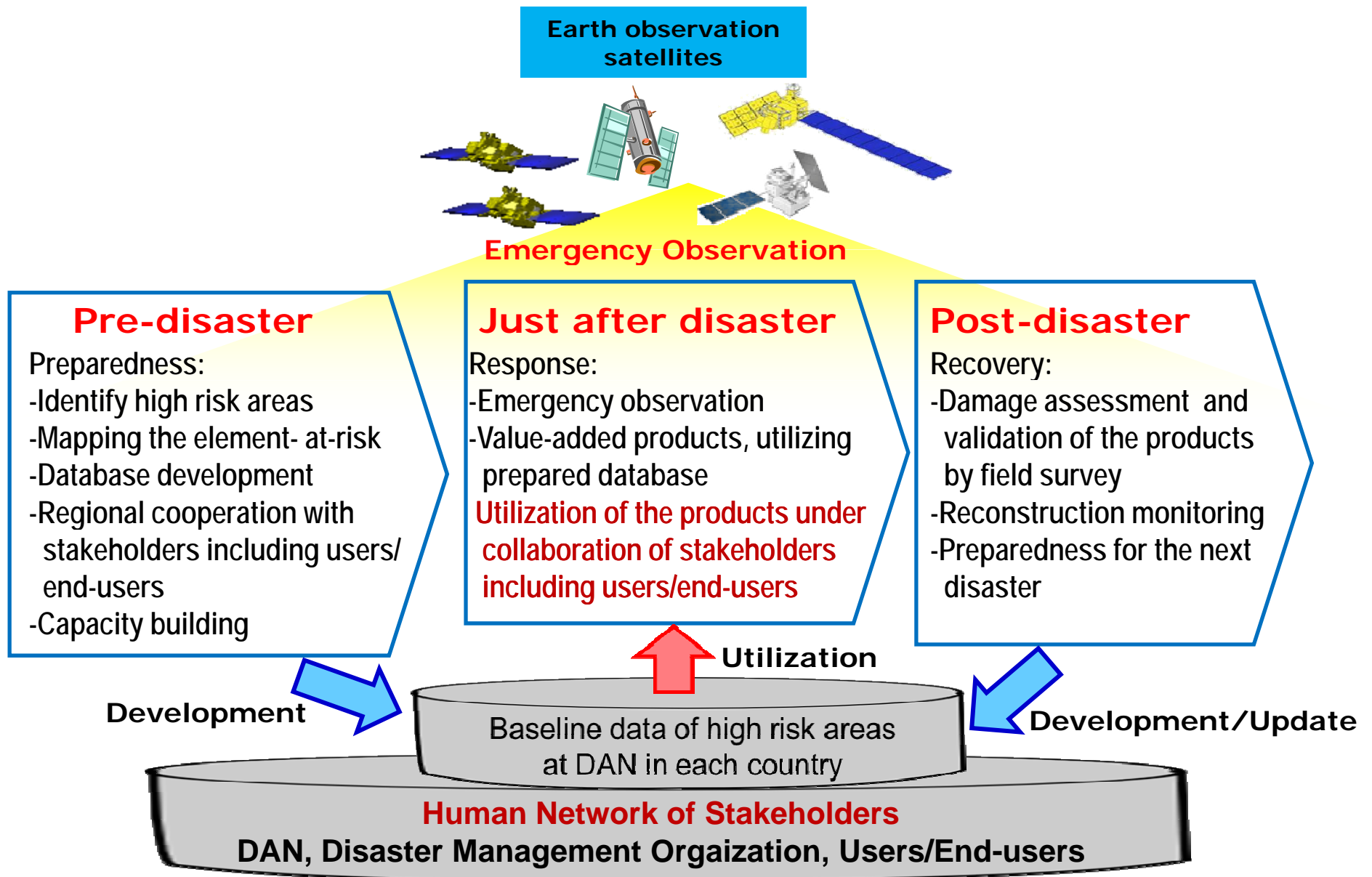
Technical Training

Summary from 2009-2011	Trainings	No. of Participants
2009	Remote Sensing	9 ++
2009	Multi-spectral and Radar Image Processing	22
2010	InSAR Processing	35
2010	Satellite-based Rainfall Precipitation	34
2011	Differential Interferrometry	27
2011	Landslide Modelling and Warning Using Satellite-based Rainfall Data	28

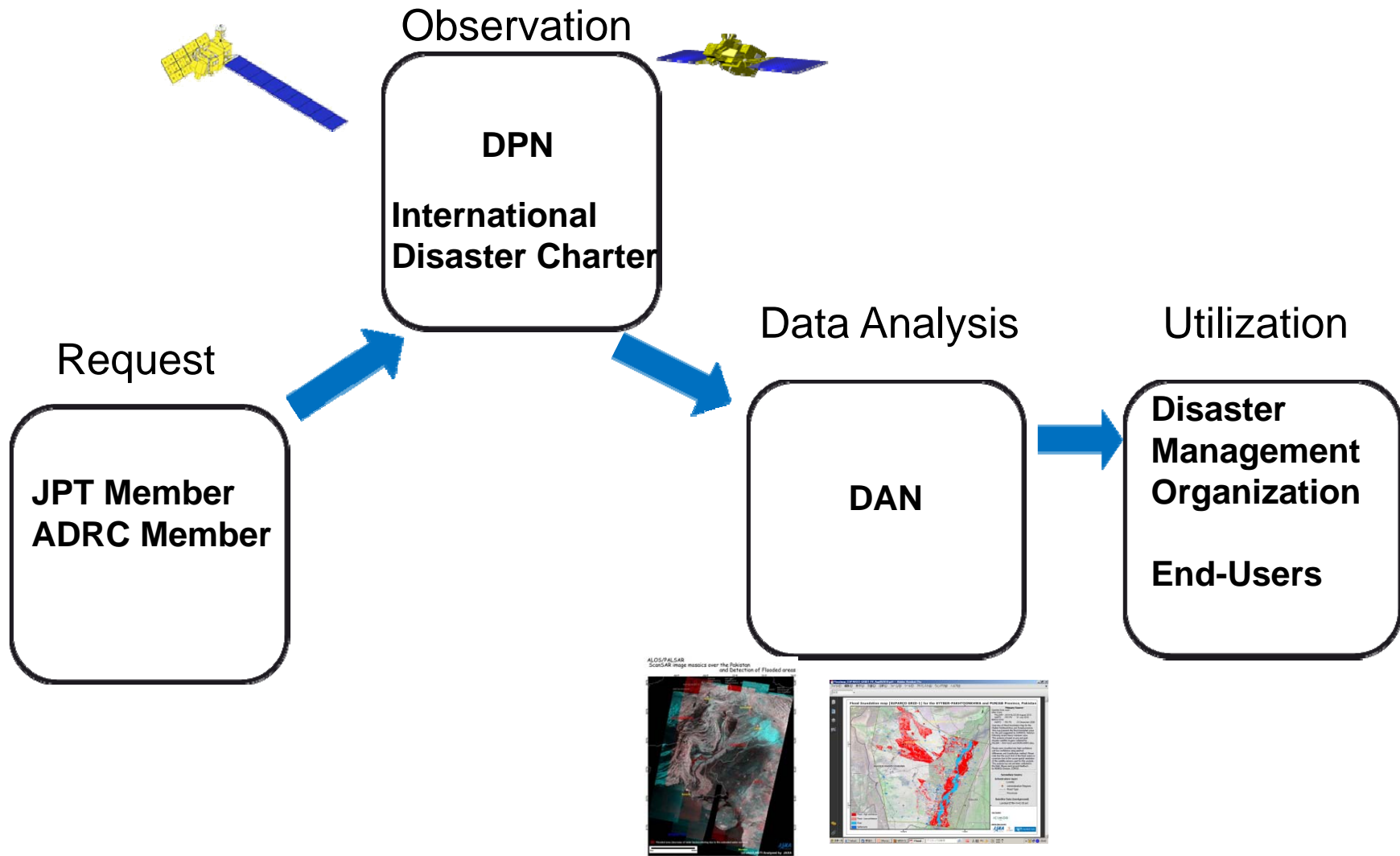


*Sentinel Asia Emergency Observation
Success Story by Mini-Project*

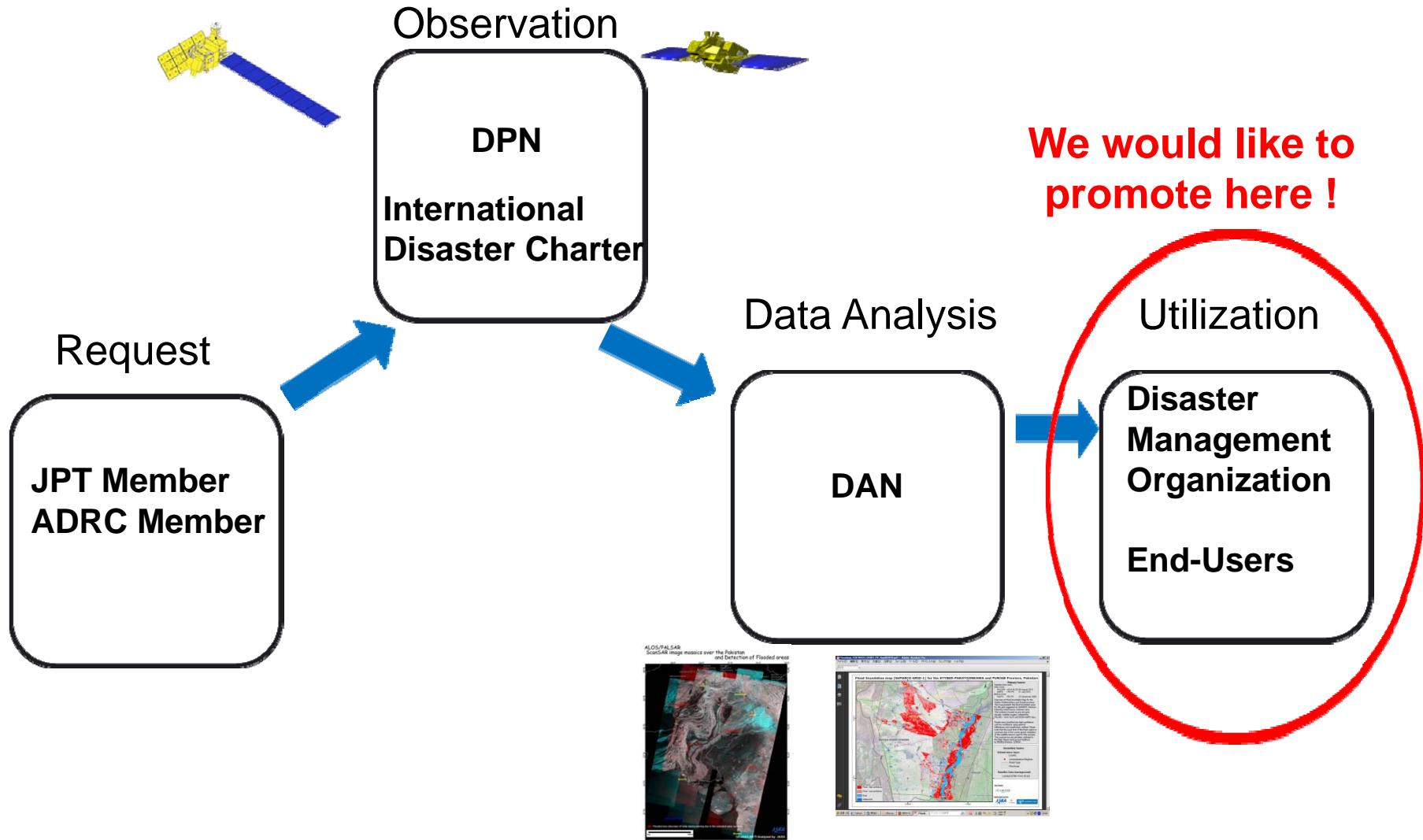
Emergency Observation Success Story



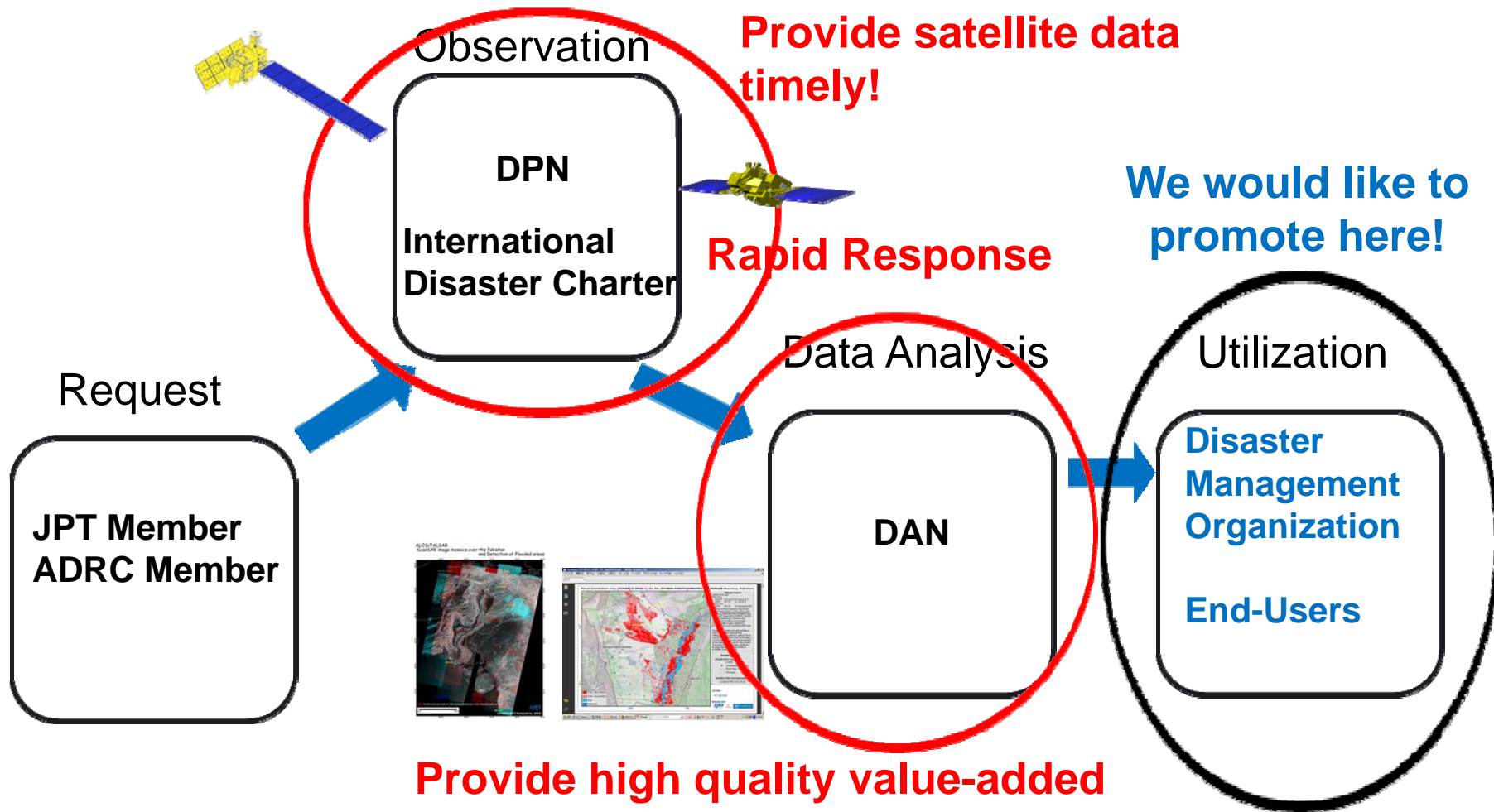
Emergency Observation Flow



Objective



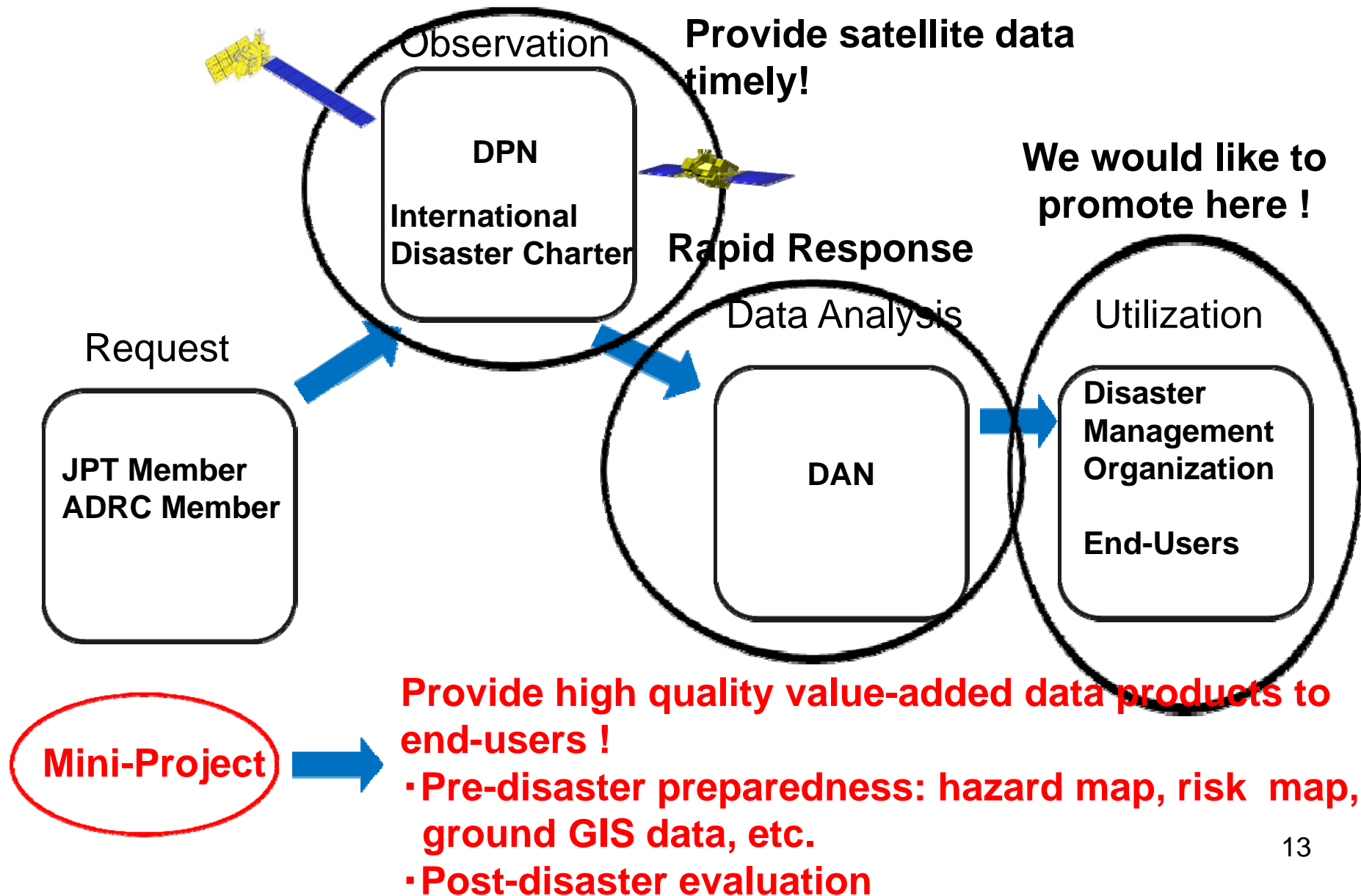
Evolution of Emergency Response



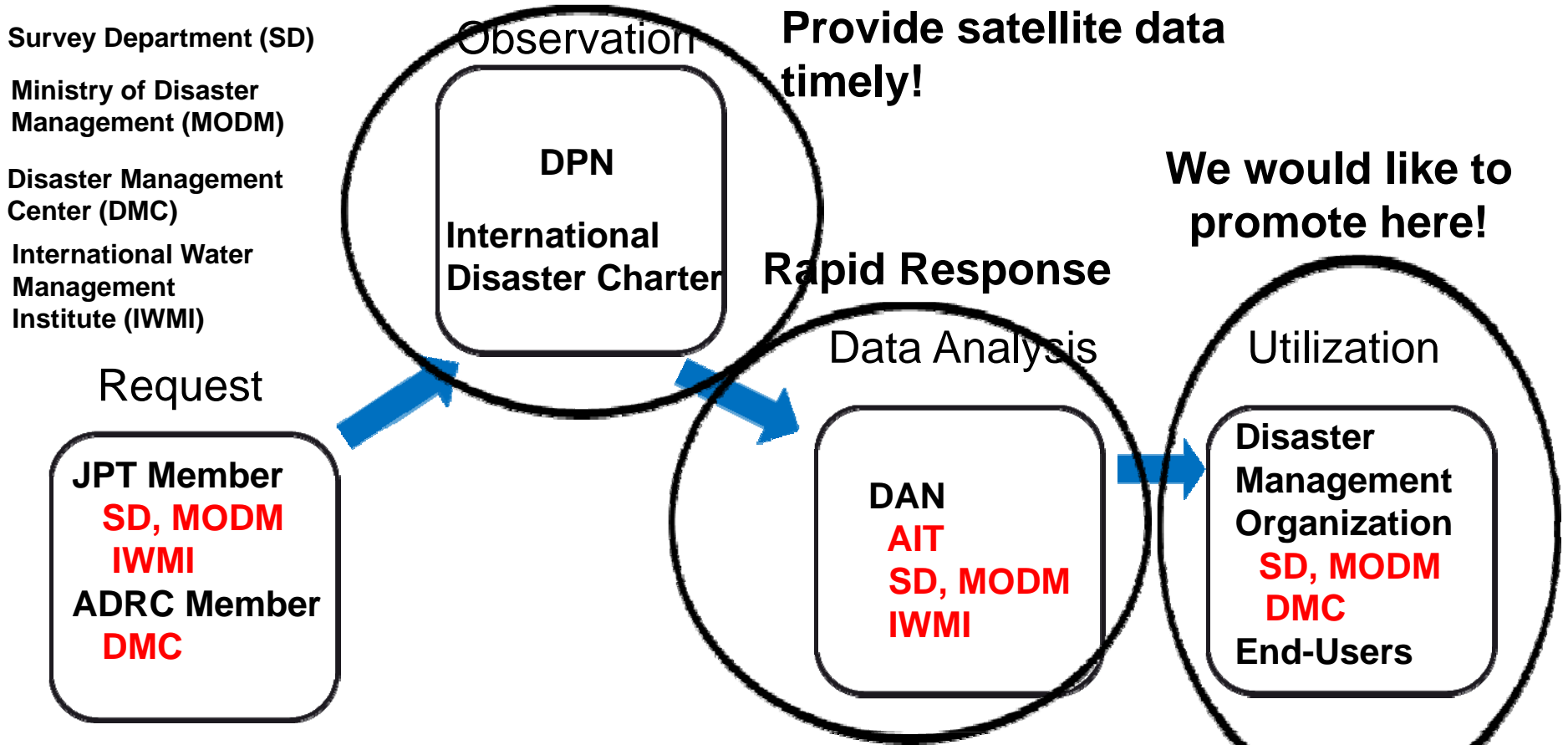
Provide high quality value-added data products !

- Pre-disaster preparedness
- Post-disaster evaluation

Approach by JAXA/AIT Mini-Project



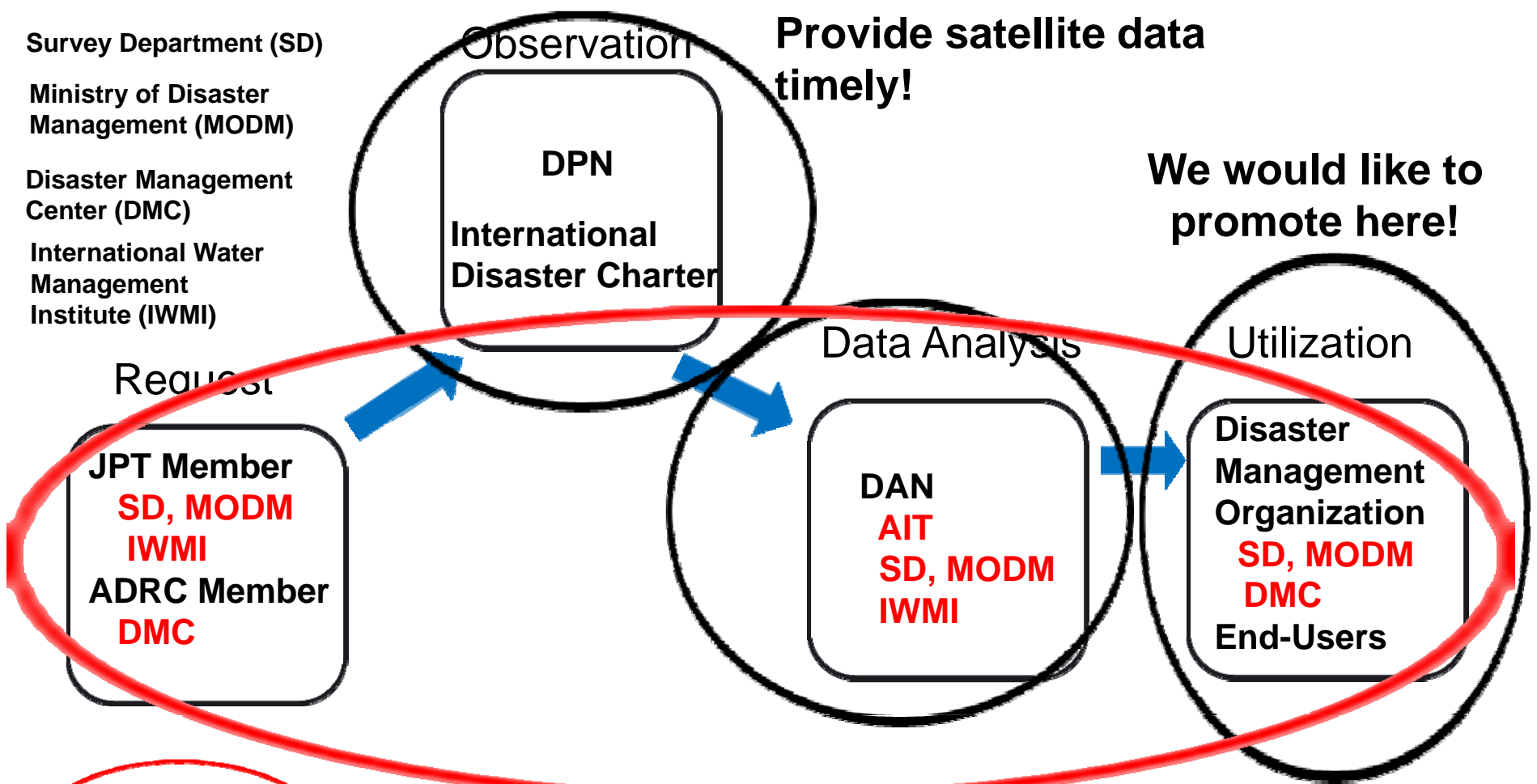
JAXA/AIT Mini-Project for Sentinel Asia Success Story in Sri Lanka



Mini-Project

- Provide high quality value-added data products to end-users !**
- Pre-disaster preparedness: hazard map, risk map, ground GIS data, etc.
 - Post-disaster evaluation

JAXA/AIT Mini-Project for Sentinel Asia Success Story in Sri Lanka



Mini-Project → **Organize Emergency Observation Community in Sri Lanka!**
Welcome more organizations to join this community



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