



International Charter Space and Major Disasters

Activity Summary and Cooperation with Sentinel Asia

JAXA

**2nd Joint Project Team Meeting for Sentinel Asia
Step3 (JPTM2014)
19 November 2014**



Purpose of the Disaster Charter

- An International agreement among Space Agencies to support with space-based data and information relief efforts in the event of emergencies caused by major disasters.
 - **Disaster response**
 - **Multi-satellite data acquisition planning**
 - Fast data turn-around – priority acquisition
 - **Archive retrievals and spacecraft tasking**
 - **Data processing at pre-determined level**
 - **Space Agency contribution in image/data**
 - **Space Agency initiative for value-added-data fusion**



Charter Members

CSA
Canada

NOAA
USGS
USA

INPE
Brazil

CONAE
Argentina

UKSA/DMC
UK
CNES
France
DLR
Germany
ESA
EUMETSAT
Europe

ROSCOSMOS
Russia

KARI
Korea
JAXA
Japan

CNSA
China
ISRO
India

15 Space Agencies;

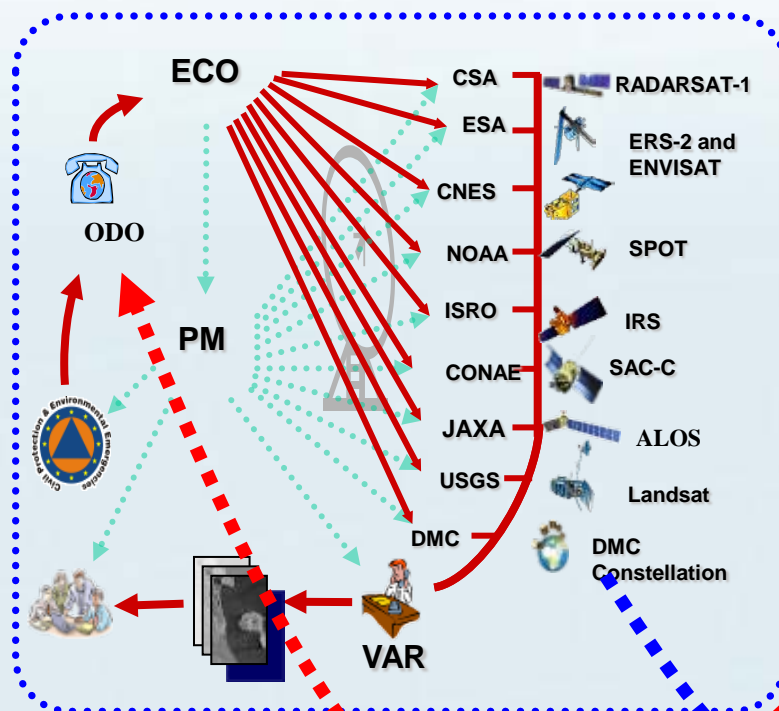




Interface between the Charter and Sentinel Asia



International Disaster Charter



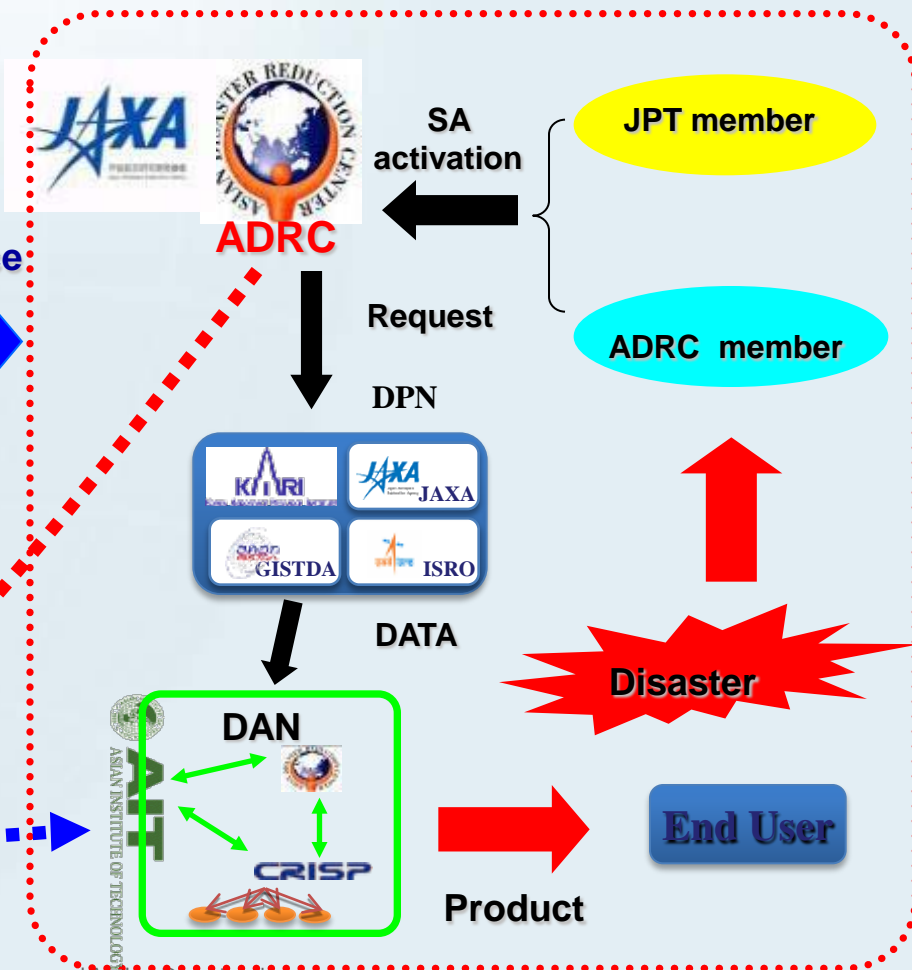
Request

Data



Sentinel Asia

Interface



Product

End User



After the last JPTM (27Nov2013), the Charter operates 40 activation, including 7 escalations from Sentinel Asia.

Member ship

New Member ROSCOSMOS,

Now in process Venezuela

Coordinating Vietnam

PM training: on 24-25 March, 2014 in Bangkok

PM training in Jakarta on Sep, hosted by LAPAN



PM activity and PM training

- PM training in Sept 2014 in Indonesia
 - Host Organization: LAPAN **< New PMs to be registered. >**
 - Participants: LAPAN, UNOCHA, AHA Center and AIT



- PM training in Jan 2015 in Thailand(TBD)
 - Training for PMs regarding IC new Cos-2 operation system which will be installed soon.



Disaster Types, Continent (Last 6months)

Disaster Types	#
Flood	12
Landslides	2
Fire	1
Typhoon/Hurricane	2
Earthquake	1
Cyclone	1
Ebola virus epidemic	1
Total	20

Continent	#
Asia	10
America	6
Africa	3
Europe	1
TOTAL	20



Universal Access

- **Universal Access** will allow national users from other countries to directly submit Emergency requests as Authorized Users (AU).
- The latest being Australia in May 2014 and Malawi in August 2014.
- 9 formal accepted UA applications:
 - 6 candidates are national disaster management organisations (Chile, Malawi, Namibia, Tanzania, Bolivia, Colombia);
 - 3 candidates are the delegates of the disaster management organisations (Australia, Ukraine, Pakistan).



COS-2 (Charter Operation System)

COS-2 is the Web based Charter Operation System developed in order to improve the Charter Website and to provide a more automatic workflow in the operation.

COS-2 has been designed in a way that at any time the workflow can be switched back to the “manual” operations

Now in parallel Operations

Will provide info and plan the training(PM training) .