The background of the slide is a photograph of a harbor. In the foreground, there is a white mooring bollard and two yellow and black striped fenders on a ship's deck. The middle ground shows a large white cargo ship docked at a pier. In the background, there are buildings and a hilly coastline under a cloudy sky.

# Outcomes of the Ocean, Coasts, and Islands (OCI-Task: TG4) Working Group session

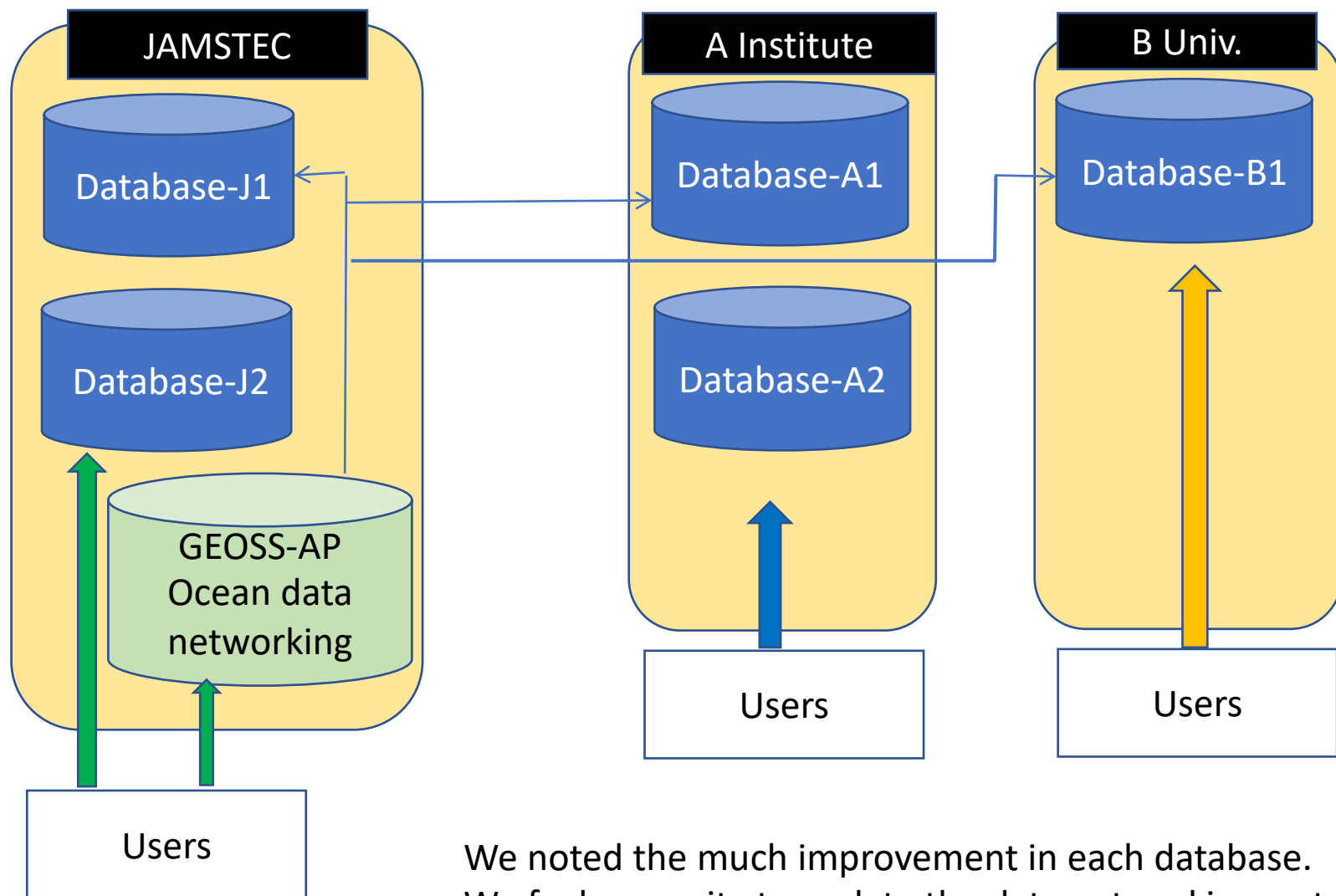
October, 26<sup>th</sup> 2018

# Three aims in this working session

Bearing in mind SDG14, we aim to:

- 1) promote development and expand the data inventory system of AP-ONS (Asia-Pacific Ocean data Networking System);
- 2) articulate user needs from island and coastal regions and possible societal benefits of EO data, and
- 3) seek linkages with AP-Marine-BON (M-BON) community for further development of data inventory and data system.

# Current system of access to observation databases

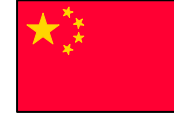


We noted the much improvement in each database.  
We feel necessity to update the data networking system

# *Current situation of In-situ data site of Asia Pacific countries*



Australia



China

As a member of  
NEAR-GOOS



India



Indonesia



Japan



Korea

As a member of  
NEAR-GOOS



Malaysia

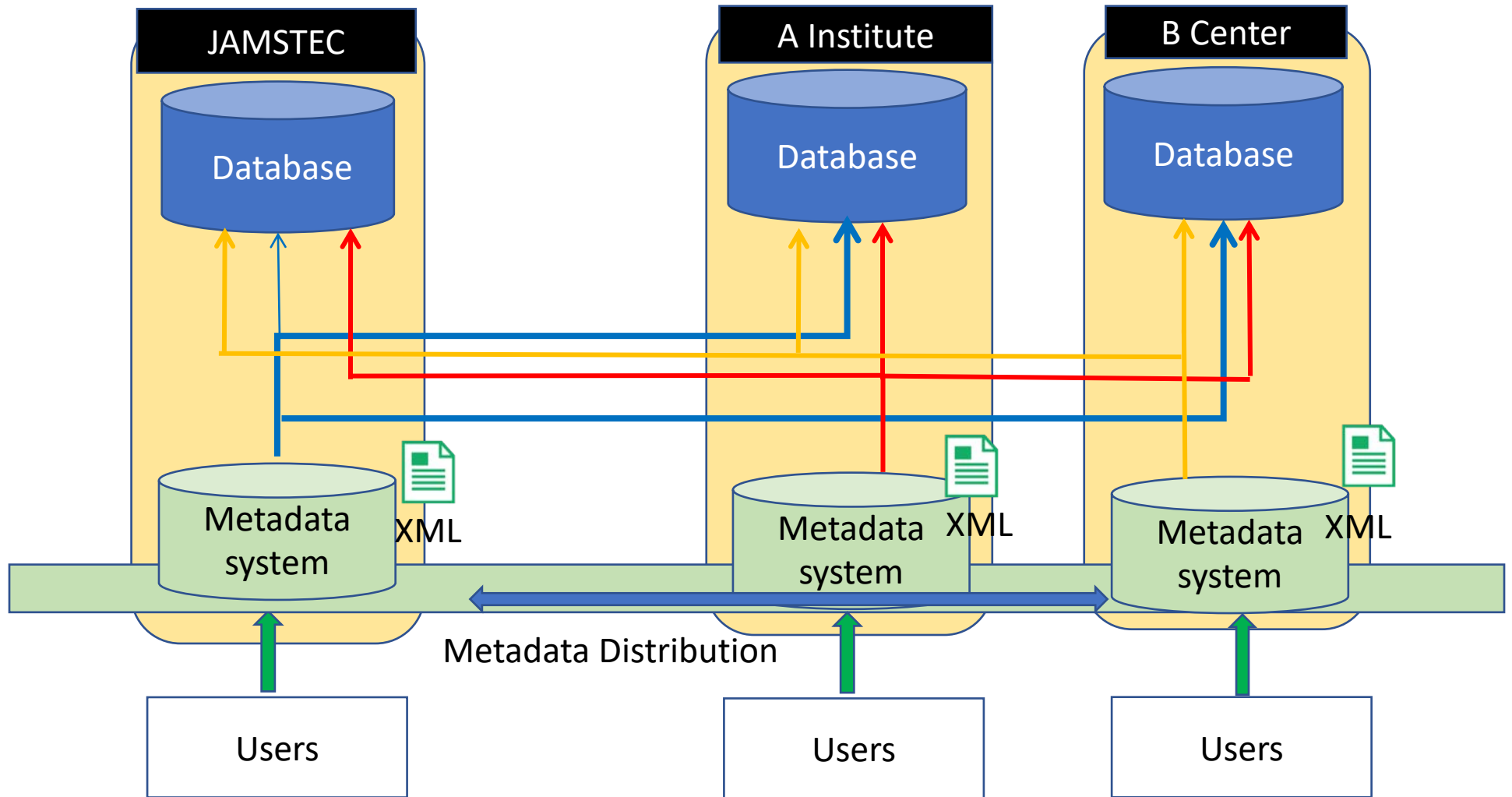


Thailand



Vietnam

# Proposed new system to access to in-situ observation database by using metadata search



TG4 established a small group to discuss the common metadata format to exchange in-situ data.

# AO GEOSS Task 4 Oceans, Coasts and Islands

## Analysis Ready Data for Water (CARD4M)

### Sensors

MODIS  
 VIIRS  
 GCOM-C  
 Landsat  
 Sentinel-2  
 Kompsat?  
 ALOS3?  
 GF1?  
 THEOS?

### Product Families

#### ARD4H20 Product Family

##### Ocean monitoring

- General Metadata
- Per-pixel Metadata
- Data Measurements
- Geolocation

#### ARD4H20 Product Family

##### Shallow Water

##### Bathymetry

- General Metadata
- Per-pixel Metadata
- Data Measurements
- Geolocation

### ARD products

Ocean colour – MODIS  
 Ocean colour – VIIRS  
 Ocean colour – GCOM-C  
 Ocean temperature – MODIS  
 Ocean temperature – VIIRS  
 Ocean temperature – GCOM-C  
 Ocean solids – MODIS  
 Ocean solids – VIIRS  
 Ocean solids – GCOM-C

Shallow water bathymetry – Landsat  
 Shallow water bathymetry – Sentinel-2  
 Shallow water bathymetry – Kompsat?  
 Shallow water bathymetry – ALOS1/3?  
 Shallow water bathymetry – GF1?  
 Shallow water bathymetry – THEOS?

TG4 established a small group to discuss development of satellite data standards (CARD4M) for ocean and costal satellite data, including metadata.

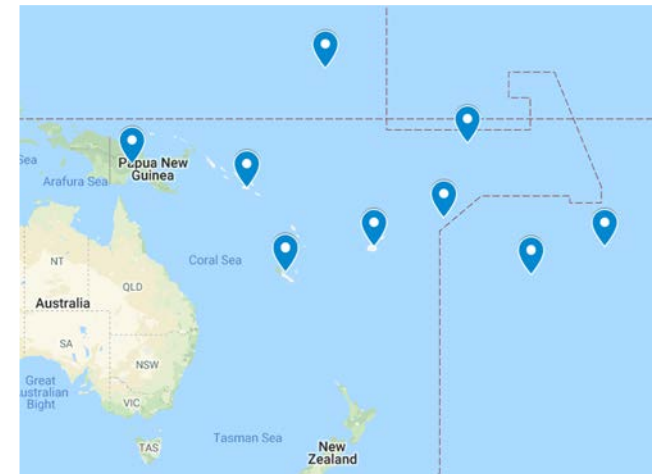
# Earth Observation Platform to Support Pacific Island Nations *Workshop: for articulating user needs*



Pacific Island countries: Fiji, Solomon Islands, Tonga, Samoa, Cook Islands, Kiribati, PNG, New Caledonia, French Polynesia

Regional Coordination bodies: FFA – PI Forum Fisheries Agency, SPREC – South Pacific Regional Environment Programme, SPC – The Pacific Community

EO Data Providers: GEO, CEOS, GA, CSIRO, NZ CSST, CNES, EC, ESA, NOAA, Japan, Airbus, Digital Globe



# Linkage between OCI task and AP-M-BON

1. Utilization of Himawari-8 and GCOM-C for coast to open ocean for model data assimilation, and to surface ocean biology such as phytoplankton.
2. Himawari-8 and GCOM-C can provide high resolution data, applicable to coastal biology and biodiversity, which will match with requirements from M-BON.
3. Although further discussion will be needed to identify common agenda, there will be possible cooperation for e.g. seagrass and coral .

