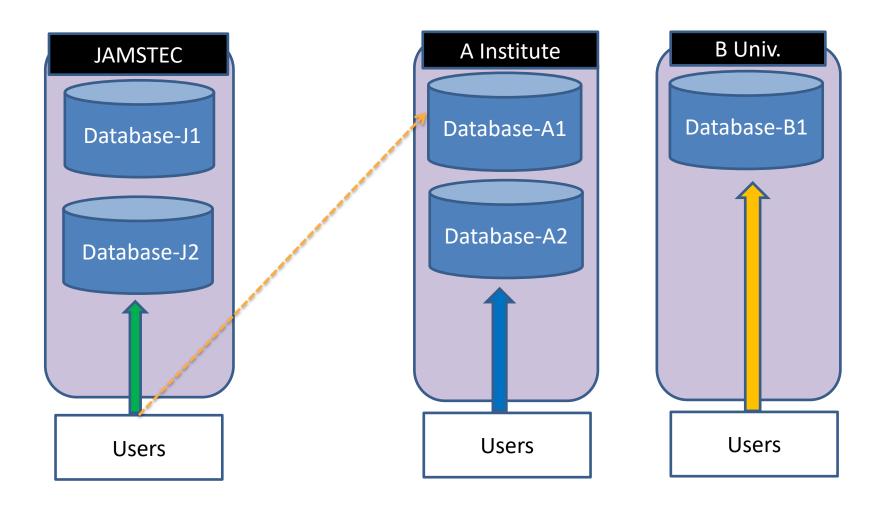
# Proposal: Future collaborative works for better metadata search

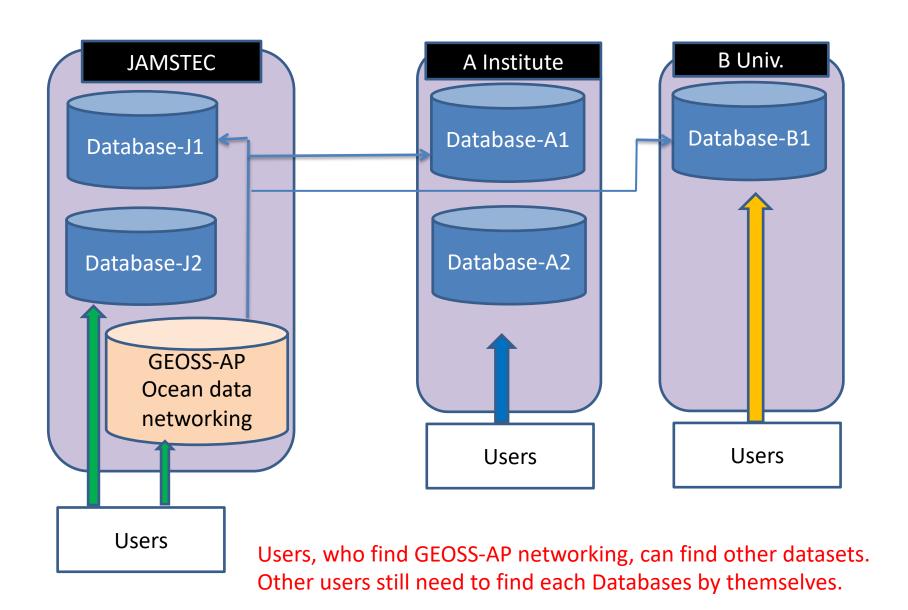
Ken Ando & Fumihiko Akazawa

#### Former system of observation database access in AP

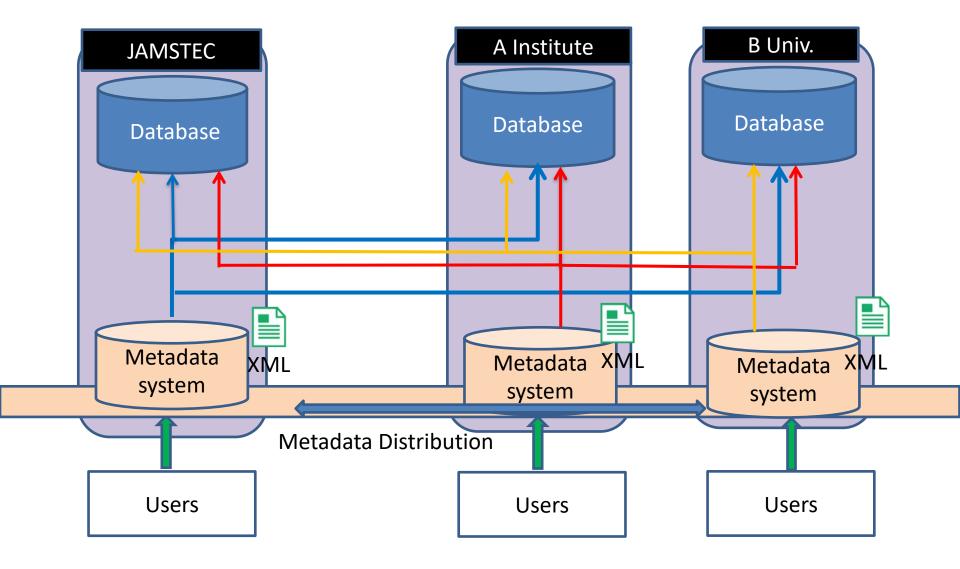


Users need to find each Databases by themselves.

#### **Current system of access to observation databases**



## Proposal of a new system to access to observation database by using metadata search



Search of metadata for acquiring various observation data of various organizations.

## What's common metadata What XML format among us?

- 1. Observation parameters
  - temperature, salinity, pH, CO2,
- 2. Observation information
  - Location, Date, Position, information related to observation
- 3. Data format
- 4. Contact point
- 5. License
- 6. URL of database site

etc...

These are NOT observation data but Meta data.

Some examples in different levels and scopes, but there are several sites which we can refer;

- 1.CKAN: <a href="https://opendatastack.jp/document/ckan\_user\_manual/">https://opendatastack.jp/document/ckan\_user\_manual/</a>
- 3. Japanese project: <a href="https://www.open-governmentdata.org/">https://www.open-governmentdata.org/</a>
- 4.Japanese project: <a href="http://www.iugonet.org/about/?lang=ja">http://www.iugonet.org/about/?lang=ja</a>
- 5.Japanese project: <a href="http://search.iugonet.org/list.jsp">http://search.iugonet.org/list.jsp</a>
- 6. In JAMSTEC:

http://www.godac.jamstec.go.jp/catalog/data\_catalog/j/index.html

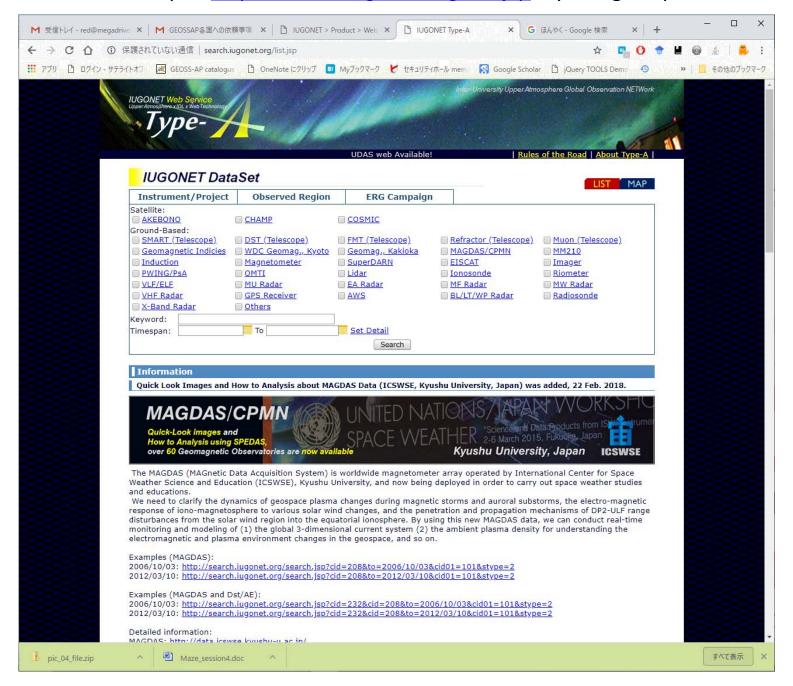
7. Australian project: <a href="https://www.govcms.gov.au/">https://www.govcms.gov.au/</a>

In most cases, they use "catalogue management system (CMS)"

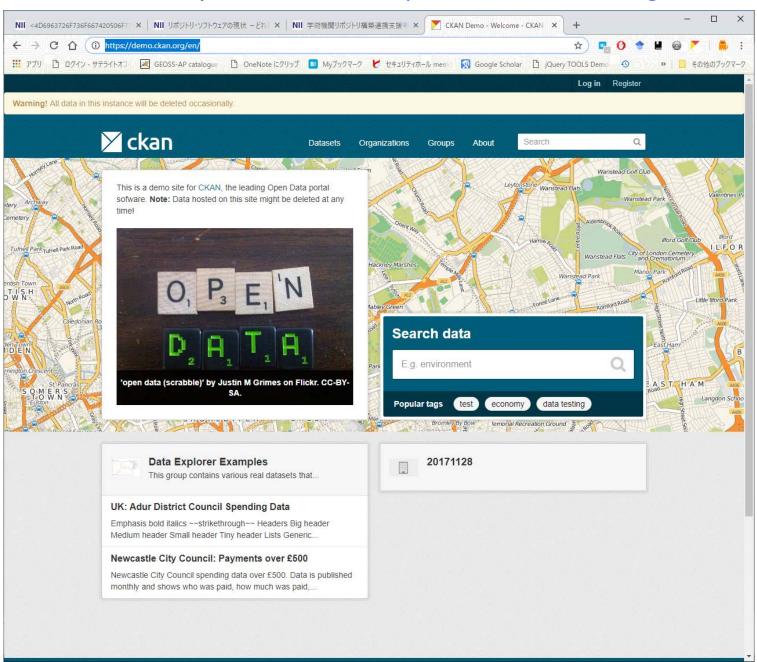
### Free Software for CMS

- Drupal
- CKAN demo-site
- Dspace(MIT)
- Eprints(Univ. of Southampton)
- Concrete5
- Joomla!
- Movable Type
- NetCommons
- Plone
- TYPO3
- Word Press
- OpenDOAR
- Boostrap

#### One example: <a href="http://search.iugonet.org/list.jsp">http://search.iugonet.org/list.jsp</a>, by using "Dspace"



#### Another Example: CKAN at <a href="https://demo.ckan.org/en/">https://demo.ckan.org/en/</a>



## CMS in our systems

#### We already used mainly for nation and institute

- 1. CSIRO: Drupal (https://coastalresearch.csiro.au/)
- 2. JAMSTEC: hand-made on Java script, no CMS (contents management system)
- 3. PMBC: Bootstrap (https://dmcrth.dmcr.go.th/pmbc/)
- 4. LIPI: OpenDOAR (http://ir.lipi.go.id/)
- 5. UMT: WordPress (http://inos.umt.edu.my/?lang=en)
- 6. VIO: Dspace
- (http://113.160.249.209:8080/dspace/?locale=en)
- 7. NEAR-GOOS: hand-made full scratch

### CMS can exchange XML files

- Agree to develop common XML file?
- Then, we need to discuss common XML metadata format
- ---What metadata we will refer?
- Referring CSIRO's metadata?
- Referring one of metadata in JAMSTEC's datasets?, which is the common with IUGONET in Japan.
- Any other idea?

#### Actions for the next: Demonstration

- Learn meta-data from examples
- Demonstration among volunteers
- Put your hand up for joining this demonstration.

#### Plan to demonstration

- 1. develop the preliminary XML file for metadata exchange
- 2. Install or develop metadata system by using each CMS
- 3. Confirm the demo system of metadata search works well