DIAS metadata input camp as an Open Science activity

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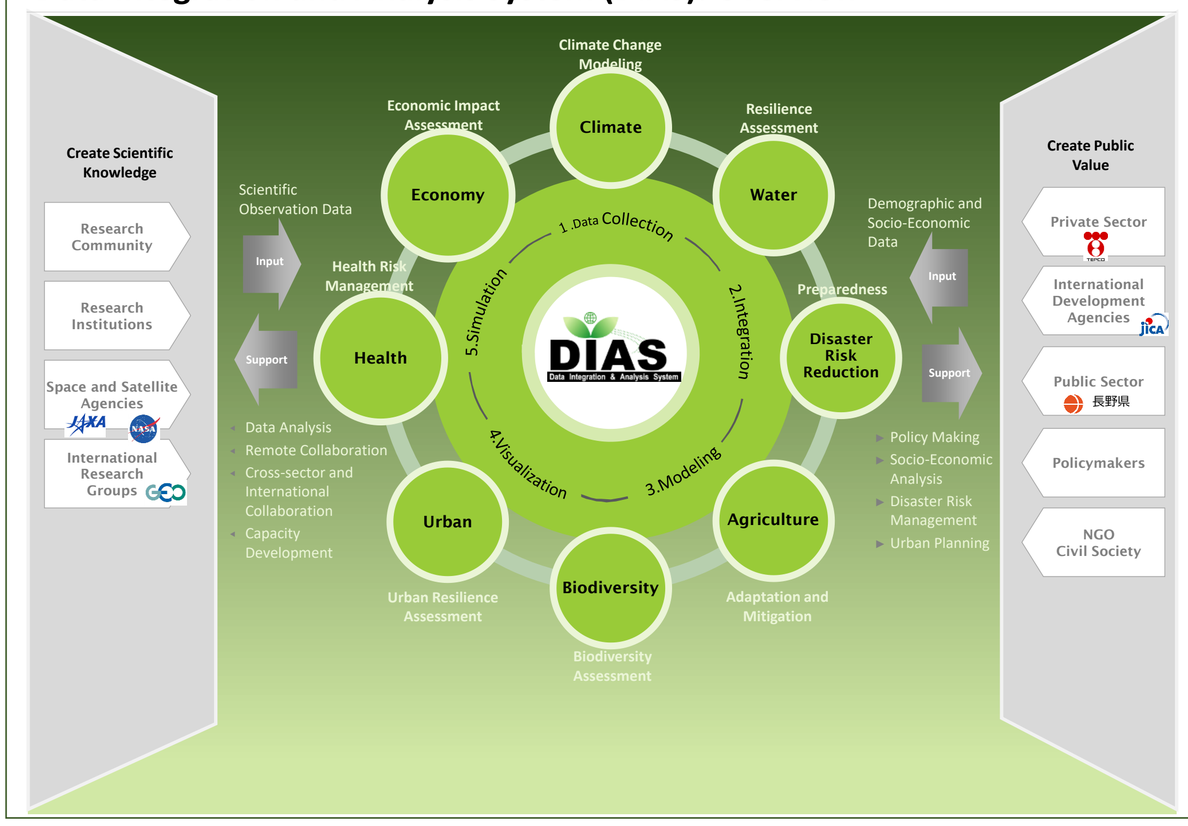
Data Integration and Analysis System (DIAS): Overview



DIAS aims

- To create knowledge to be shared among different disciplines
- To create knowledge to be shared
- Contribution to global social issues
- Provision of data and information

DIAS Phase III (2016-2021)

- Collect data, Store data, Release data
- Analysis space
- Cooperation with various research fields for implementing the outcome of research projects

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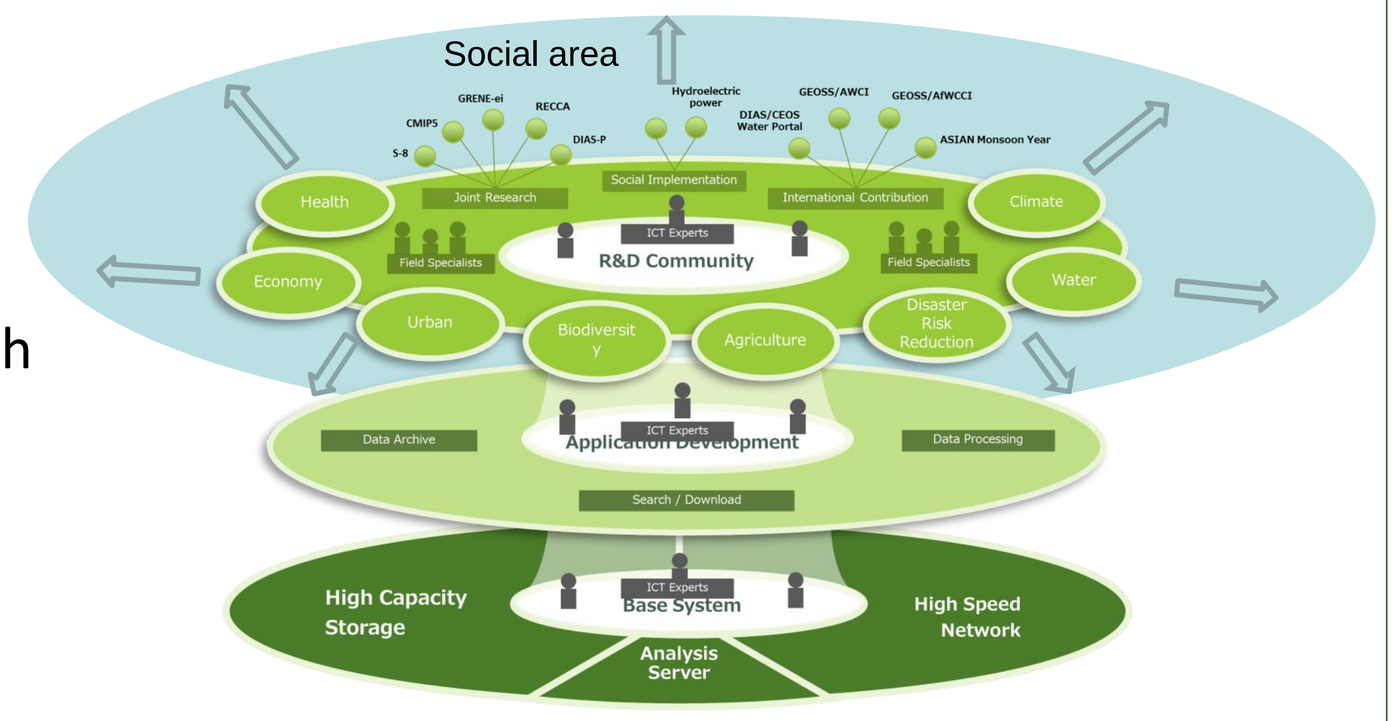
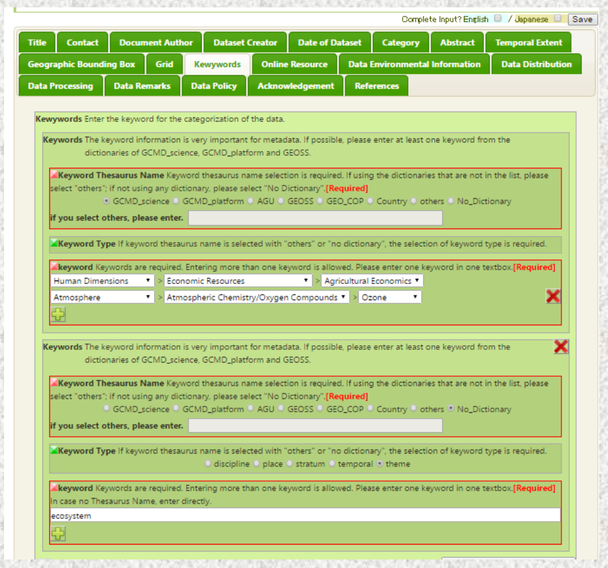
- Long-term stable social Platform to help solve various social problems



DIAS Metadata : Document-centric metadata creation

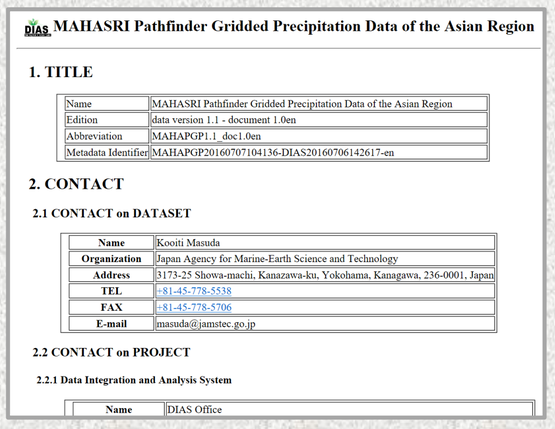
Once metadata is created, documents for the dataset is automatically generated in HTML and PDF



Web-based system

```
<?xml version="1.0" encoding="UTF-8"?>
- <gmd:MD_Metadata xsi:schemaLocation="http://www.isotc211.org/2005/gmd
http://www.isotc211.org/2005/gmd/gmd.xsd" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:fn="http://www.w3.org/2005/02/xpath-
functions" xmlns:xdt="http://www.w3.org/2005/02/xpath-datatypes"
xmlns:gml="http://www.opengis.net/gml" xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:gts="http://www.isotc211.org/2005/gts" xmlns:gss="http://www.isotc211.org/2005/gss"
xmlns:gsr="http://www.isotc211.org/2005/gsr" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:gmd="http://www.isotc211.org/2005/gmd">
  - <gmd:fileIdentifier>
      <gco:CharacterString>MAHAPGP20160707104136-DIAS20160706142617-
        en</gco:CharacterString>
    </gmd:fileIdentifier>
  - <gmd:language>
      <gco:CharacterString>English</gco:CharacterString>
    </gmd:language>
  - <gmd:characterSet>
      <gmd:MD_CharacterSetCode
        codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodelists.xml#MD_Charact
        codeListValue="utf8"/>
    </gmd:characterSet>
  - <gmd:contact>
    - <gmd:CI_ResponsibleParty>
      - <gmd:individualName>
          <gco:CharacterString>Kooiti Masuda</gco:CharacterString>
        </gmd:individualName>
      - <gmd:organisationName>
          <gco:CharacterString>Japan Agency for Marine-Earth Science and
            Technology</gco:CharacterString>
        </gmd:organisationName>
      - <gmd:contactInfo>
        - <gmd:CI_Contact>
          - <gmd:address>
            - <gmd:CI_Address>
              - <gmd:electronicMailAddress>
                  <gco:CharacterString>masuda at jamstec dot go dot
```

XML metadata
ISO19115 (ISO19139)



DIAS MAHASRI Pathfinder Gridded Precipitation Data of the Asian Region

1. TITLE

Name	MAHASRI Pathfinder Gridded Precipitation Data of the Asian Region
Edition	data version 1.1 - document 1.0en
Abbreviation	MAHAPGP1.1_doc1.0en
Metadata Identifier	MAHAPGP20160707104136-DIAS20160706142617-en

2. CONTACT

2.1 CONTACT on DATASET

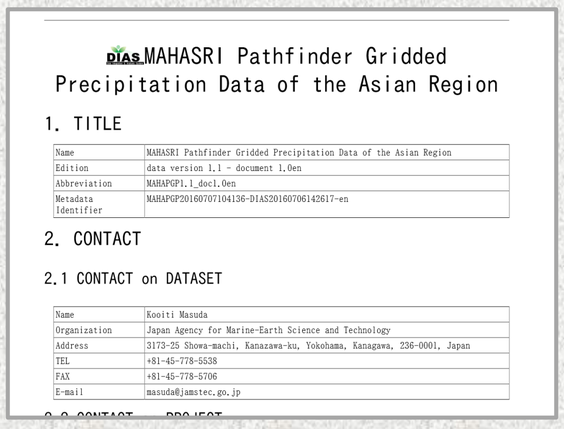
Name	Kooiti Masuda
Organization	Japan Agency for Marine-Earth Science and Technology
Address	3173-25 Showa-machi, Kanazawa-ku, Yokohama, Kanagawa, 236-0001, Japan
TEL	+81-45-778-5538
FAX	+81-45-778-5706
E-mail	masuda@jamstec.go.jp

2.2 CONTACT on PROJECT

2.2.1 Data Integration and Analysis System

Name	DIAS Office

HTML document



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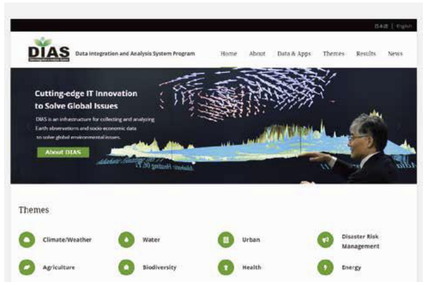
FAX	+81-45-778-5706
E-mail	masuda@jamstec.go.jp

PDF document

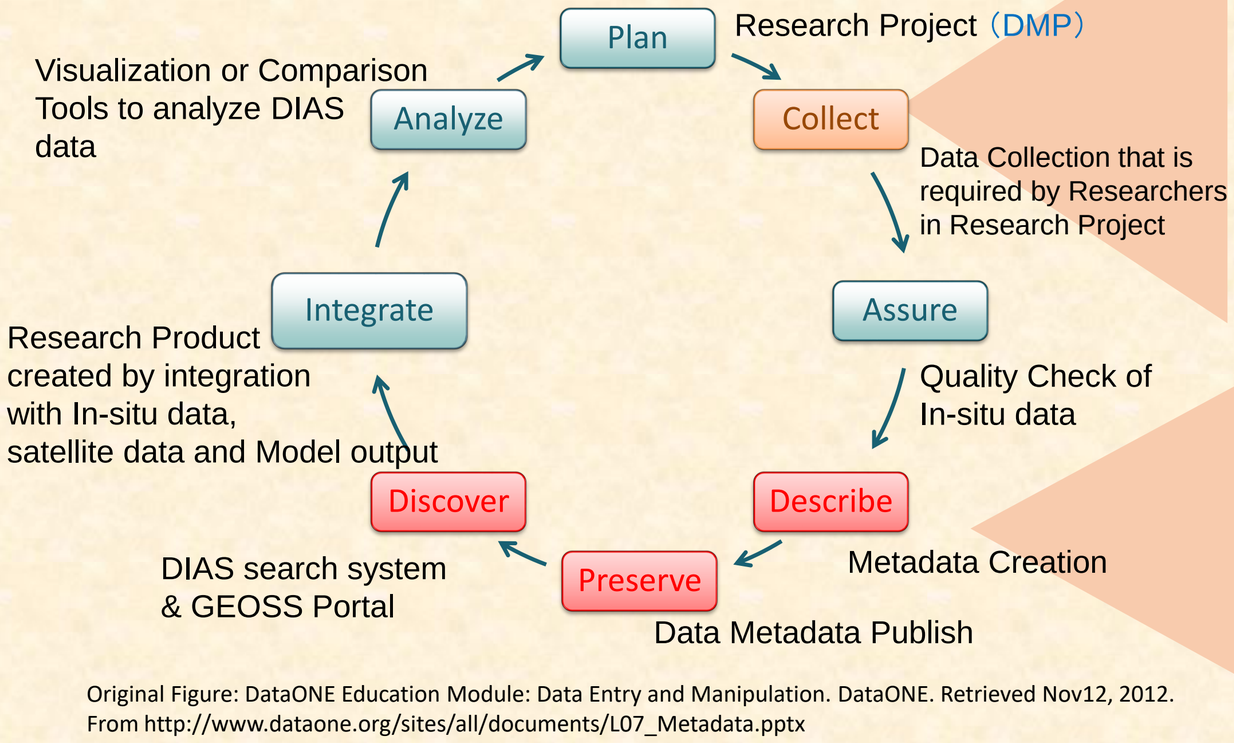


DIAS Web site

http://www.diasjp.net/

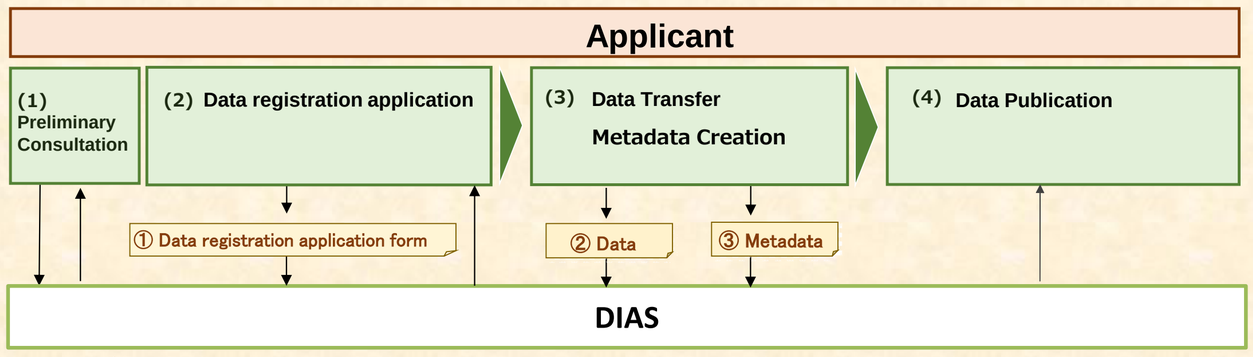
Inquiry: dias-office@diasjp.net

Data Life Cycle in DIAS



Original Figure: DataONE Education Module: Data Entry and Manipulation. DataONE. Retrieved Nov12, 2012. From http://www.dataone.org/sites/all/documents/L07_Metadata.pptx

Flow of DIAS data registration & data publish



DIAS metadata input camp

Metadata input camp

Agenda

- What is Metadata?
- How to register Metadata to DIAS
  - Granularity of dataset
  - Dataset id registration
  - Input metadata using our system
- Points to keep in mind while input metadata
  - Policies
  - Keywords
- Try to input metadata
- Usage of Metadata by searching

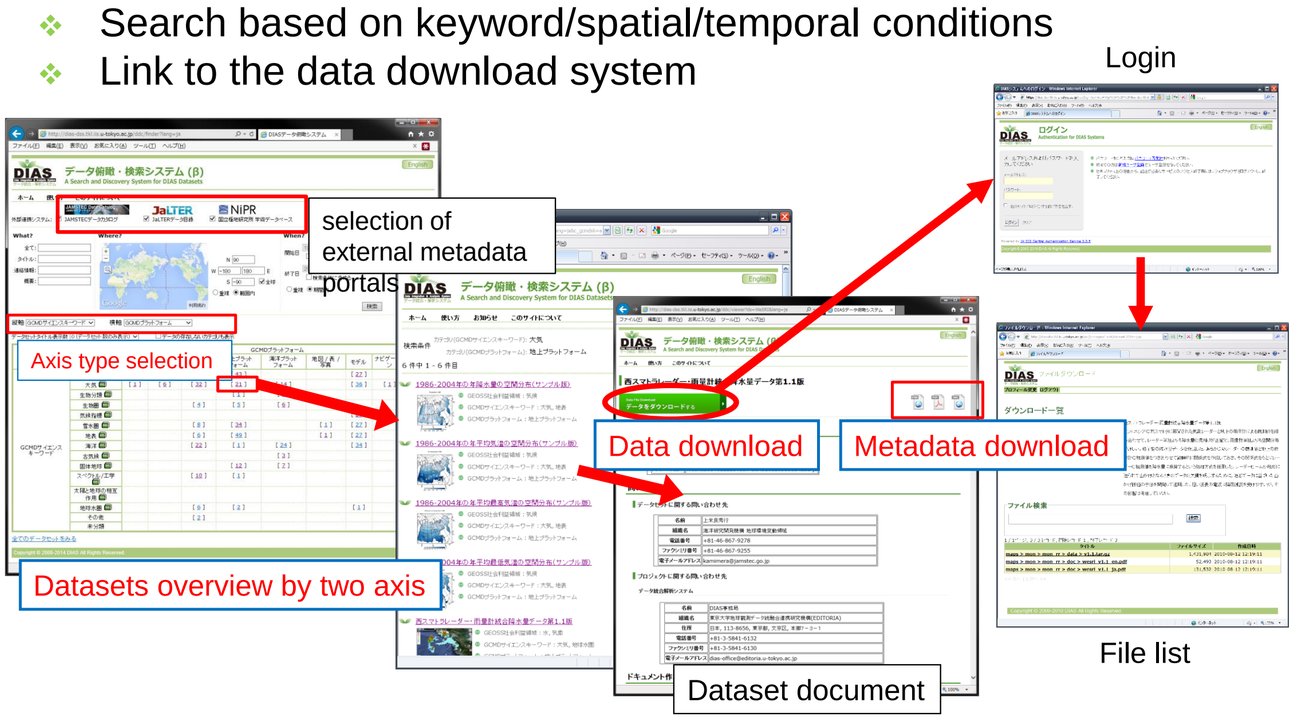
Participants

2014/7/31	1st at U.Tokyo	7 participants
2014/11/25	2nd at UN univ.	5 participants
2015/2/25	3rd at Hatsumei Kaikan	6 participants
2015/10/25	4th at U.Tokyo	12 participants
2016/3/28	5th at U.Tokyo	9 participants
2017/2/28	6th at Nikkei Hall	19 participants

A Search and Discovery System for DIAS Datasets

http://search.diasjp.net/en

- Overview of entire DIAS datasets
- Search based on keyword/spatial/temporal conditions
- Link to the data download system



Conclusion

- It is crucial to keep accurate and rich Metadata.
- Only data providers have knowledge about dataset
- DIAS improve metadata quality to communicate with data providers by DIAS metadata input camp.