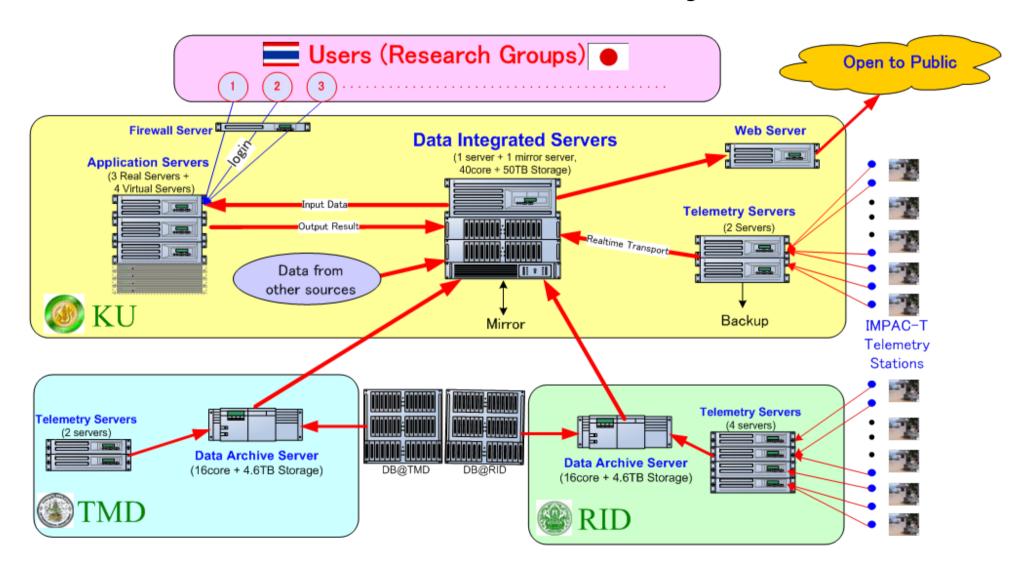
### Secondary Data Sharing System

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IMPAC-T Information Server Team

# **IMPAC-T Server System**



#### **IMPAC-T Server Services**

- Telemetry Data Crawling and Archive
  - Impact-t1,impact-t2@KU
  - Impact-r-t1,t2,t3,t4@RID
  - Impact-t-t1,t2@TMD
- Data Integration System(DIS)
  - Impact-di@KU
  - Impact-r-di@RID
  - Impact-t-di@TMD
- Web Server
  - Impact-www@KU
- Application Server (for models)
  - Impact-a1,ap,mr@KU
  - Impact-v1,v2,v3,v4@KU(virtual)
- Secondary Data Sharing System



t1-t4@RID



@KU



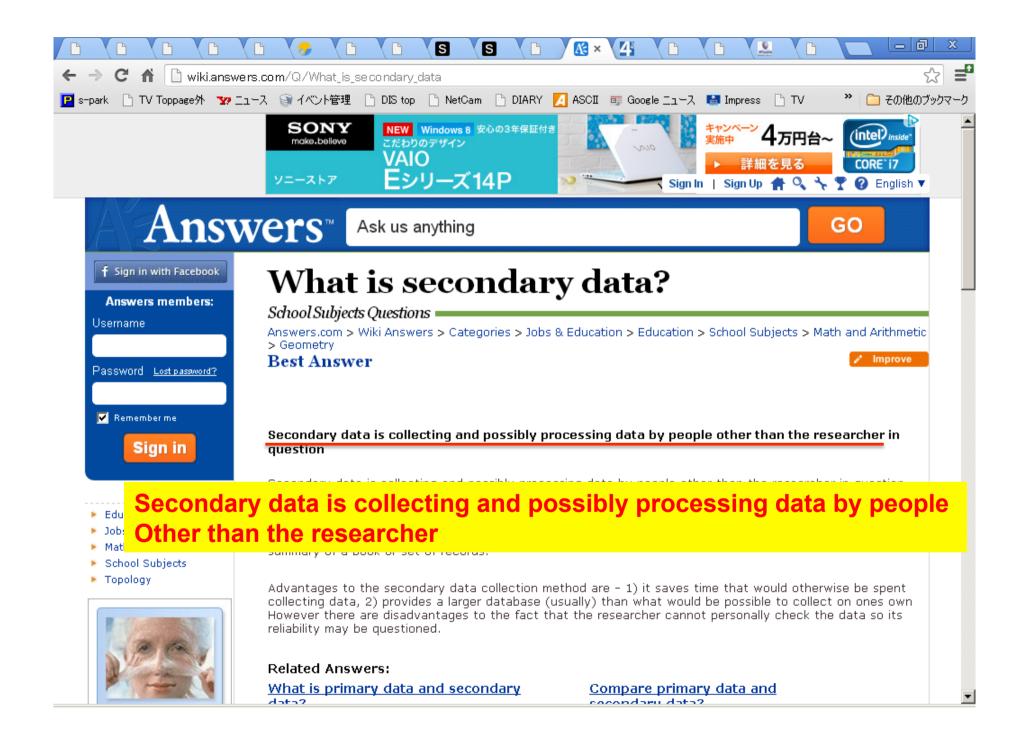
t1-t2,di@TMD

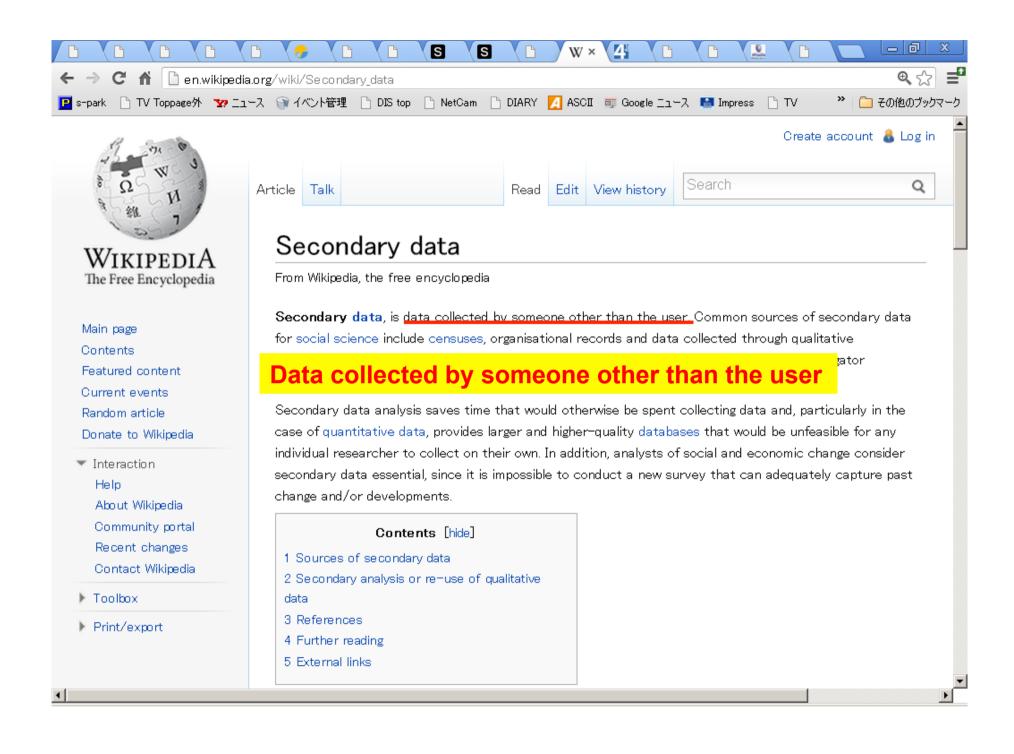
## What is "Secondary Data"?

- ⇔Primary Data
- ≠ Telemetry Data
- ≠ Observation Data
- → Secondary Data



= Data for Secondary Use ?





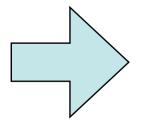
# What is "Secondary Data"?

Anyway, Secondary data is important data which can be used for research.

→ necessary to develop easy-to-use environment

### Secondary Data Sharing System

- System for Sharing "Data"
- Somebody upload to Server
  - → Store and Manage on Server
  - → Users can use/download data



Upload, Manage, Use

## **Upload**

- By http
  - Using Web-based Interface
- By ftp
  - Using FTP client software
- By direct-connection
  - Using USB HDD for connecting to Server

## Management

- All Secondary data will be stored at IMPAC-T Data Integrated Server
- 1 Dataset = 1 Directory
- Dataset should include meta-information
  - Free style document file
  - Well-formatted text (XML etc..)
- Security/Permission Information
- Is Pre-prosessing necessary?



#### For Use

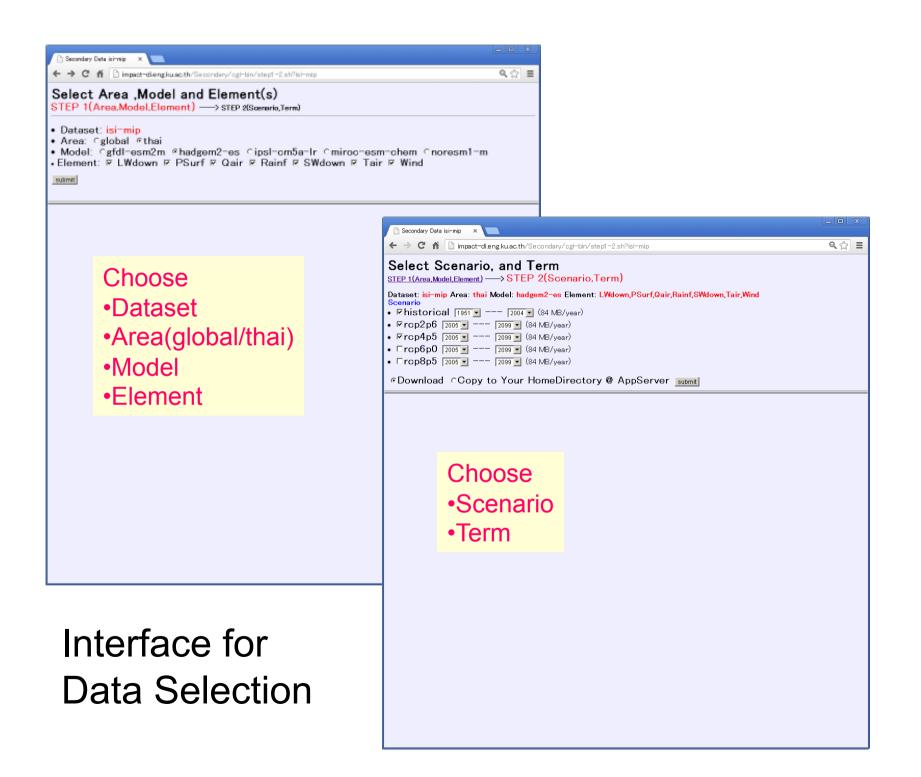
- Download
  - Web-based download Interface
  - Data Integrated Servers prepare "download data set" for each user
- Direct-use on server
  - Each user has their own environment/disk space on application server
  - Data Integrated Servers prepare data and copy to user's home directory
- Direct-connected HDD and "carry"

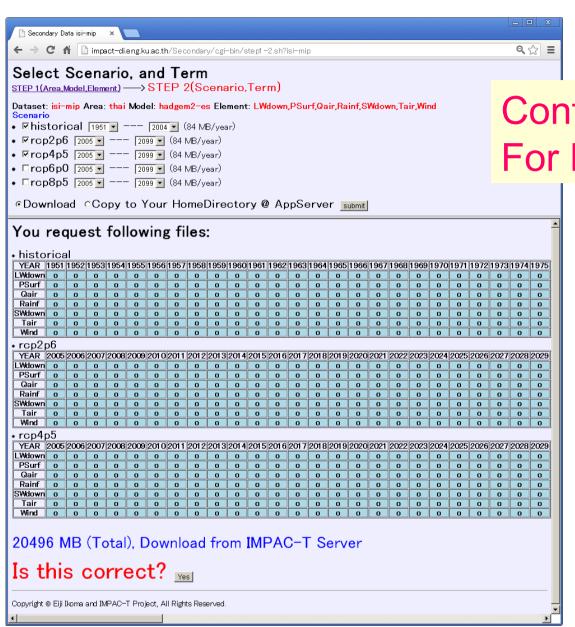


#### Case 1

- ISI-MIP data (by Dr.Kiguchi)
  - Upload: Direct-connection (USB HDD)
  - Manage: original data and Thai-area data(preprocessing)
  - Use/Download: Prepare download interface
- All data are stored at impact-di server
  - = 22TB (compressed, including preprocessed data)











#### Case 2

- KAKUSHIN-MRI data (by Dr.Kiguchi)
  - Upload: Direct-connection (USB HDD)
  - Manage: original data
  - Use/Download: (under consideration)

 70% of data are stored at impact-di server Finally, 13TB (original data) will be stored.

depend on the discussion after my talk

#### Case 3

- Any data
  - Upload: Direct-connection (USB HDD)
  - Manage: original data
  - Use/Download: Web(Directory View only)
- → Simplest Interface for download

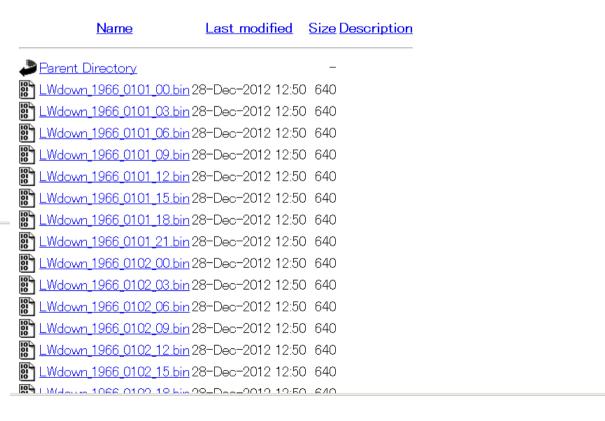


### Index of /Secondary/isi-mip/data/global/gfdl-esm2m/rcp8p5



Apache/2.2.3 (CentOS) Server at impact-di.eng.ku.ac.th Port 80





#### Discussion

What kind of data can you prepare?

Depend on the data format, size, structure, permission...

I'll prepare appropriate system for upload, direct-use/download Interface -software, hardware-

Please give rough information about your data!

# Thank you for your attention

