Data Democracy

Pakorn Apaphant (GISTDA)

Draft v0.1

GISTDA activities

- Designing Data Democracy Portal

- Organizing Data Democracy Workshop

Data Democracy Workshop

Data Democracy Workshop

- Program Name:

  "Data Democracy Workshop on Climate Change"

- Date: 7-11 June 2010

- Location: GISTDA headquarters, Bangkok

- Targeting Participants: ASEAN (climate relevant) approximate 30 people

- Expecting Speakers: CEOS (and local experts) as proper

Progress

- GISTDA, a local host, sent an official letter to CEOS Chair asking for CEOS support on lecturers or speakers on 16 February.

- An official invitation letter to invite climate relevant officers around 20 agencies in ASEAN member list (10 countries) on the end of March.

  - Brunei Darussalam
  - Cambodia
  - Indonesia
  - Lao PDR
  - Malaysia
  - Myanmar
  - Philippines
  - Singapore
  - Thailand
  - Vietnam

- Pending on confirmation of potential speakers' name, especially CEOS speakers (expecting from JAXA, ESA, INPE, ISRO, and CMA).

Tentative Agenda

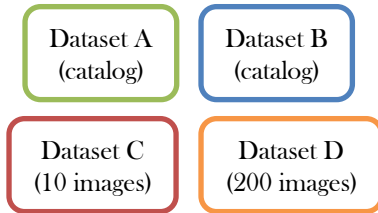| Time	Subject	Speaker/Lecturer
7 June 2010		
9:30-10:30	**Introduction to Data Democracy Program**	Dr.Pakorn Apaphant (GISTDA)
10:30-12:00	**Climate Change and its effects in Asia**	Dr.Anond Snidvongs (GISTDA)
12:00-13:00	**Lunch Break**	
13:00-16:00	**EO for Climate Change**	TBC
8 June 2010		
9:00-12:00	**Modeling and Data Application for Climate Change**	TBC
12:00-13:00	**Lunch Break**	
13:00-14:00	**GEONETCast and FENGYUNCast System**	Mr. Wang Chunfang (CMA)

14:00-16:00	**Introduction to Data Democracy Portal Contents**
	   - *Data Access*
	   - *Software Tools*
		TBC (GISTDA)

9 June 2010		
9:00-12:00	**Software Implementation (Hands-on Training)**	TBC
12:00-13:00	**Lunch Break**	
13:00-16:00	**Software Implementation (Hands-on Training)**	TBC
10 June 2010		
9:00-12:00	**Case Studies (Hands-on Training)**	TBC
12:00-13:00	**Lunch Break**	
13:00-16:00	**Case Studies (Hands-on Training)**	TBC
16:00-16:30	**Workshop Closing & Evaluation**	TBC
11 June 2010		
9:00-15:00	**Facilities Visit**	

Require speakers on these following topics:

- EO for Climate Change
- Modeling and Data Application for Climate Change
- Software Implementation (Hands-on Training) – *2 sections*
- Case Studies (Hands-on Training)

Support from CEOS community will be very advantage for ASEAN people in order to update and learn about new technology of EO.

Data Democracy Portal

Current Status

2008

- ## Dataset

  Dataset A (catalog) Dataset B (catalog)

  Dataset C (10 images) Dataset D (200 images)

  = 4 datasets from different providers

- ## Training Document

  Course A Course B

  = 2 courses from providers

- ## Freeware

  Software A (downloadable) Software B (send request to provider)

  = 2 software from providers

2009

- ## Dataset

  Dataset E (catalog) Dataset F (catalog)

  = 2 datasets from different providers

- ## Training Document

  Course C

  = 1 course from provider

- ## Freeware

  Software C (downloadable) Software D (send request to provider)

  Software E (downloadable)
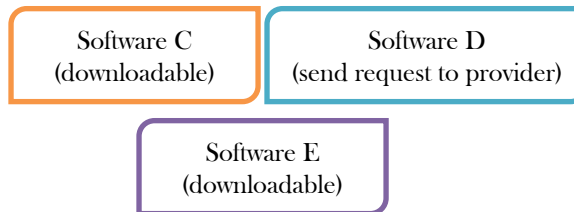
  = 3 software from providers

2010

- ## Dataset

  Dataset G (20 images) Dataset H (10 images)

  = 2 datasets from different providers

- ## Training Document

  Course D

  = 1 course from provider

- ## Freeware

  Software F (send request to provider)
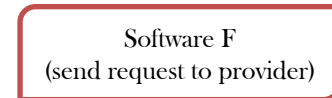
  = 1 software from provider

Current Status

2010 (at this moment)

- All products are available but hard to find!

Dataset F (catalog)

Course C

Software E (downloadable)

Dataset H (10 images)

Software B (send request to provider)

Course A

Software D (send request to provider)

Software F (send request to provider)

Dataset C (10 images)

Dataset A (catalog)

Course D

Software A (downloadable)

Dataset D (200 images)

Dataset E (catalog)

Software C (downloadable)

Dataset B (catalog)

Dataset G (20 images)

Course B

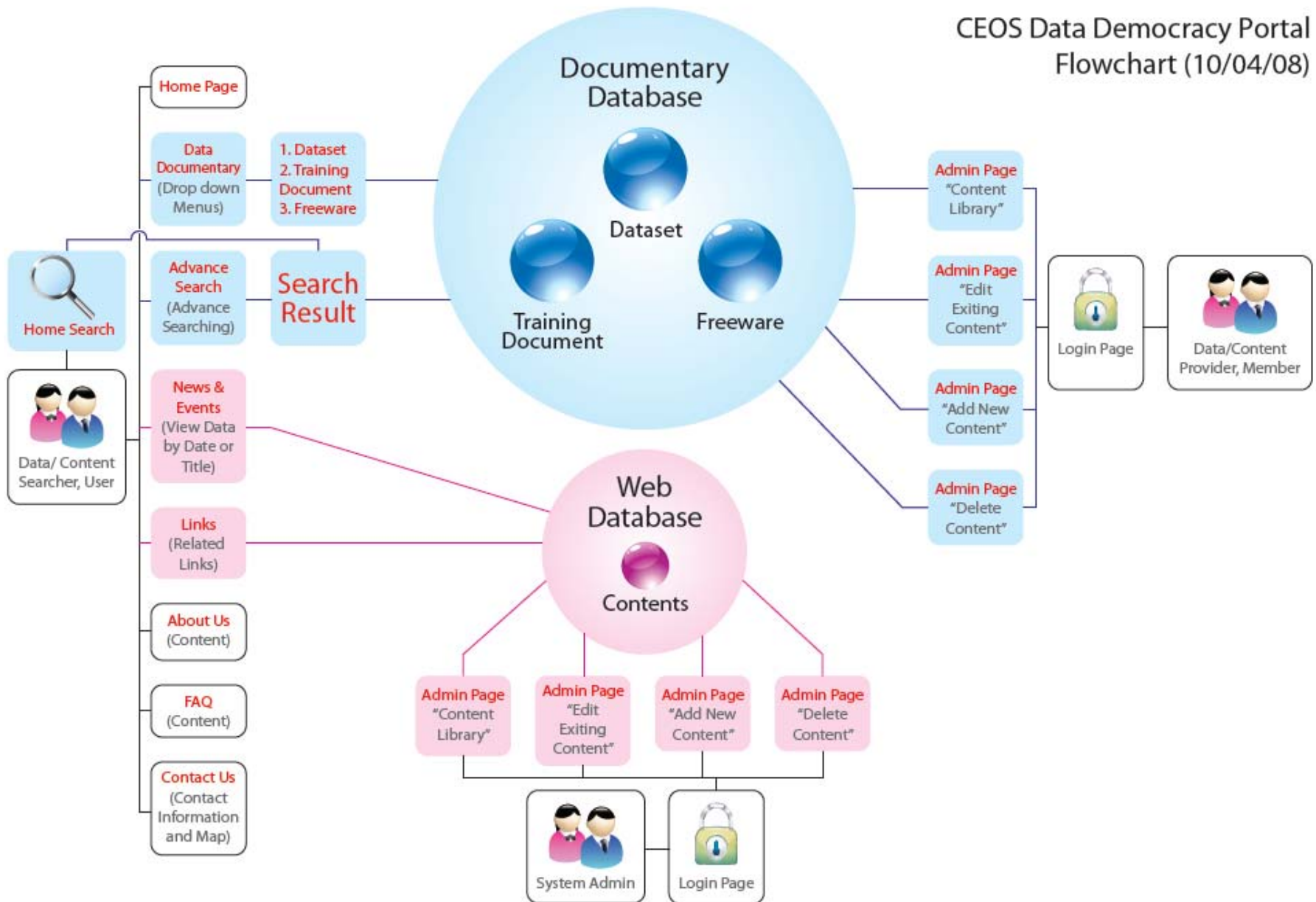= a bunch of products out there from different providers

Portal Design Idea

- Put all accumulated product in place for an easy access
- By using a search engine which can initially extract product's keywords, thus, users could easily find the data/ documents/ software that they look for
- Not contain the actual image in a server but the linkage
- Webmaster could update the list of products at anytime when we have a new product comes to the community
- A full right of products still belongs to providers

Portal Structure

CEOS Data Democracy Portal
Flowchart (10/04/08)

Documentary Database

Dataset

Training Document

Freeware

Home Page

Data Documentary (Drop down Menus)
1. Dataset
2. Training Document
3. Freeware

Home Search

Advance Search (Advance Searching)

Search Result

Data/ Content Searcher, User

News & Events (View Data by Date or Title)

Links (Related Links)

About Us (Content)

FAQ (Content)

Contact Us (Contact Information and Map)

Admin Page "Content Library"

Admin Page "Edit Exiting Content"

Admin Page "Add New Content"

Admin Page "Delete Content"

Login Page

Data/Content Provider, Member

Web Database

Contents

Admin Page "Content Library"

Admin Page "Edit Exiting Content"

Admin Page "Add New Content"

Admin Page "Delete Content"

System Admin

Login Page

What do we need from the provider?

- Request "keywords" from products' providers using as inputs for search engine

    Sample

    - Dataset
        - Name of satellite
        - Abstract/ description
        - Coverage area
        - Acquisition date
        - Online linkage
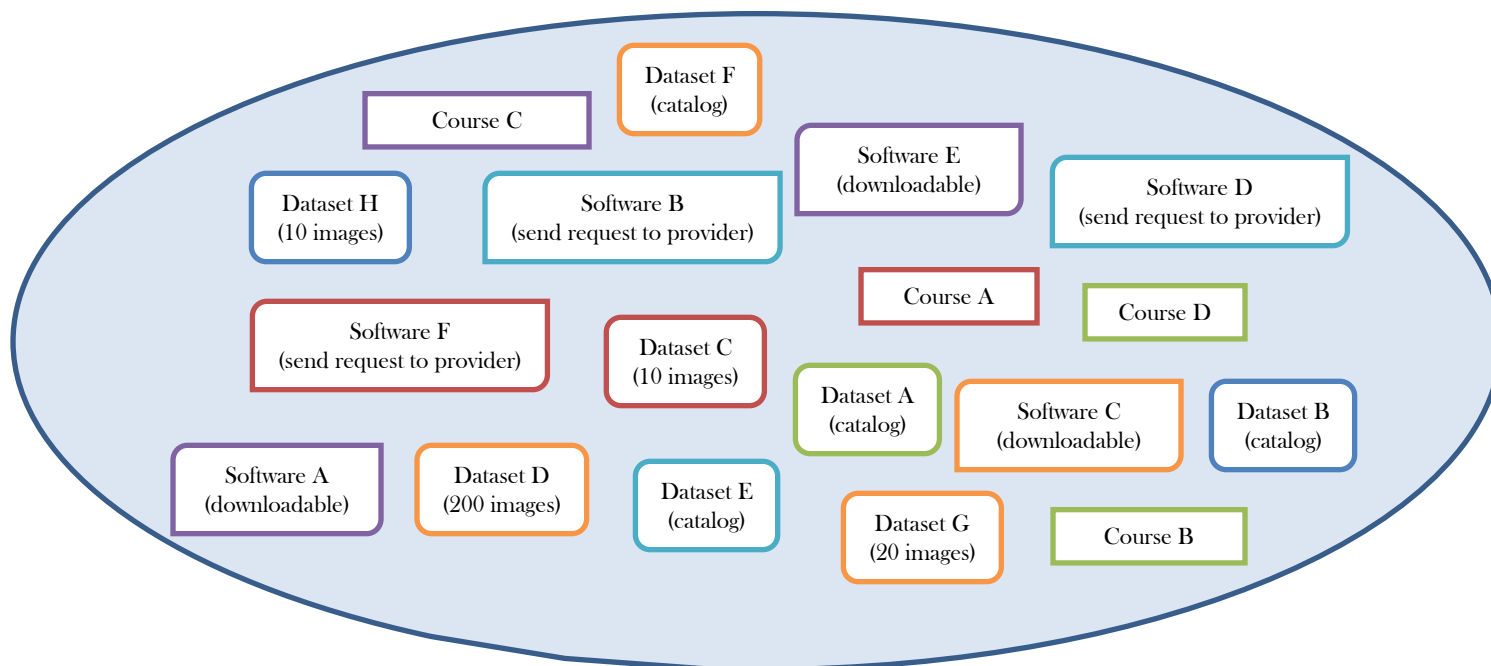   - Application
        - Distributor/ Product Owner

How it works…
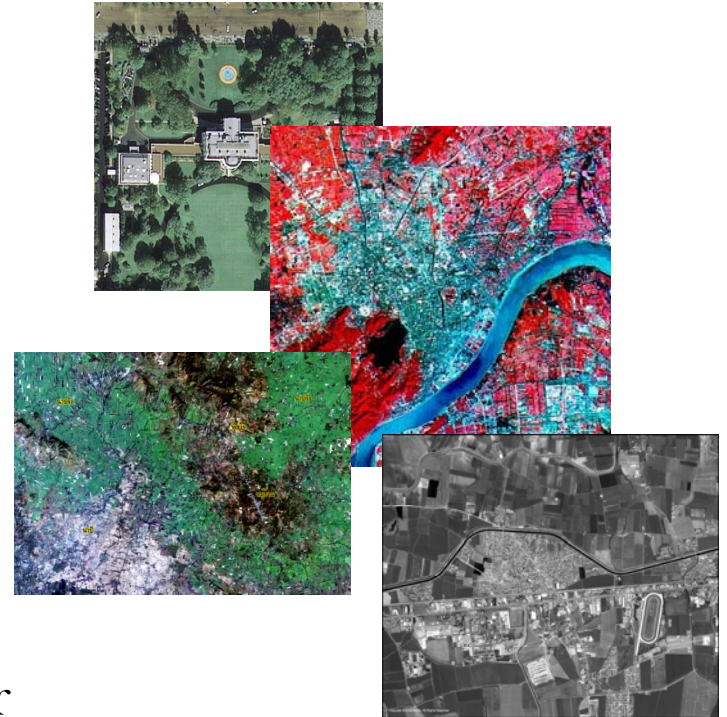
Sample of demand and supply

- **User side**
  - Landsat data
  - 2007
  - China
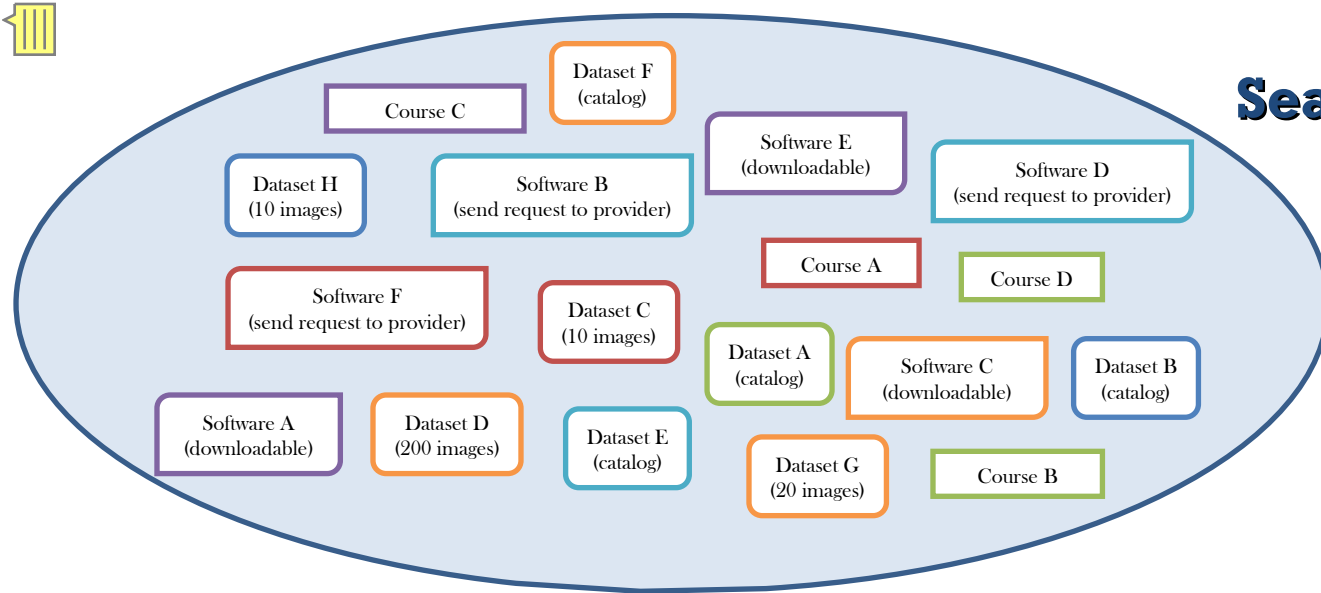
- **Provider side**
  - 3 providers in the program
  - Both catalog and images
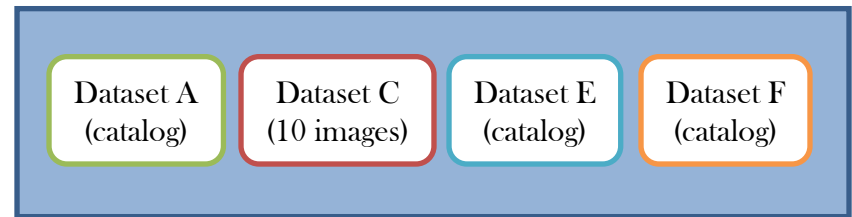 - Different coverage and period
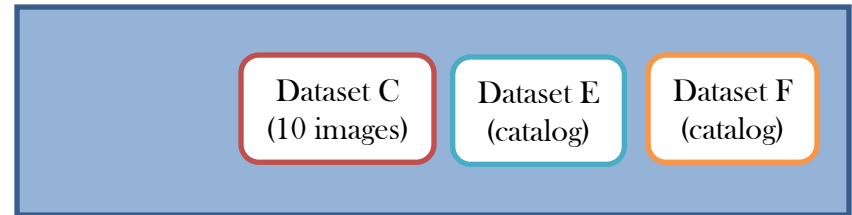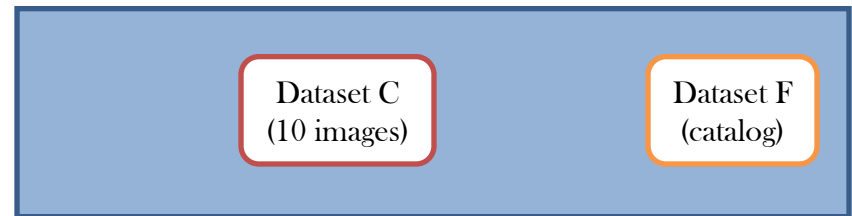
Search Engine Process (backbone)

Course C
Dataset F (catalog)
Software E (downloadable)
Software D (send request to provider)
Dataset H (10 images)
Software B (send request to provider)
Course A
Course D
Software F (send request to provider)
Dataset C (10 images)
Dataset A (catalog)
Software C (downloadable)
Dataset B (catalog)
Software A (downloadable)
Dataset D (200 images)
Dataset E (catalog)
Dataset G (20 images)
Course B

Extract level 1 : Using 1 keyword

Landsat

SEARCH →

Dataset A (catalog) | Dataset C (10 images) | Dataset E (catalog) | Dataset F (catalog)

Extract level 1 : Using 2 keywords

Landsat 2007

SEARCH →

Dataset C (10 images) | Dataset E (catalog) | Dataset F (catalog)

Extract level 1 : Using 3 keywords

Landsat 2007 China

SEARCH →

Dataset C (10 images) | Dataset F (catalog)

User Viewing Page

- We found 2 linkages of

  Landsat/ 2007/ China

Dataset C (10 images)

❖ *USGS*

      Landsat 5   MSS TM
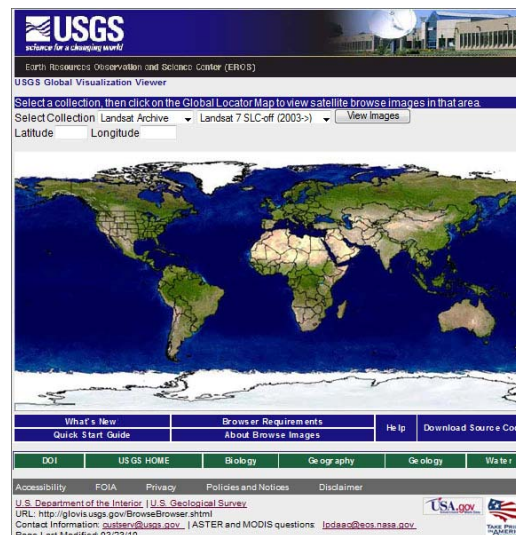
        Earthquake in China, Wenchuan county

Dataset F (catalog)

❖ *USGS Global Visulation Viewer: GloVis*

      Landsat 7 ETM+

Link to