

Future Plans of IT Activities at University of Tokyo

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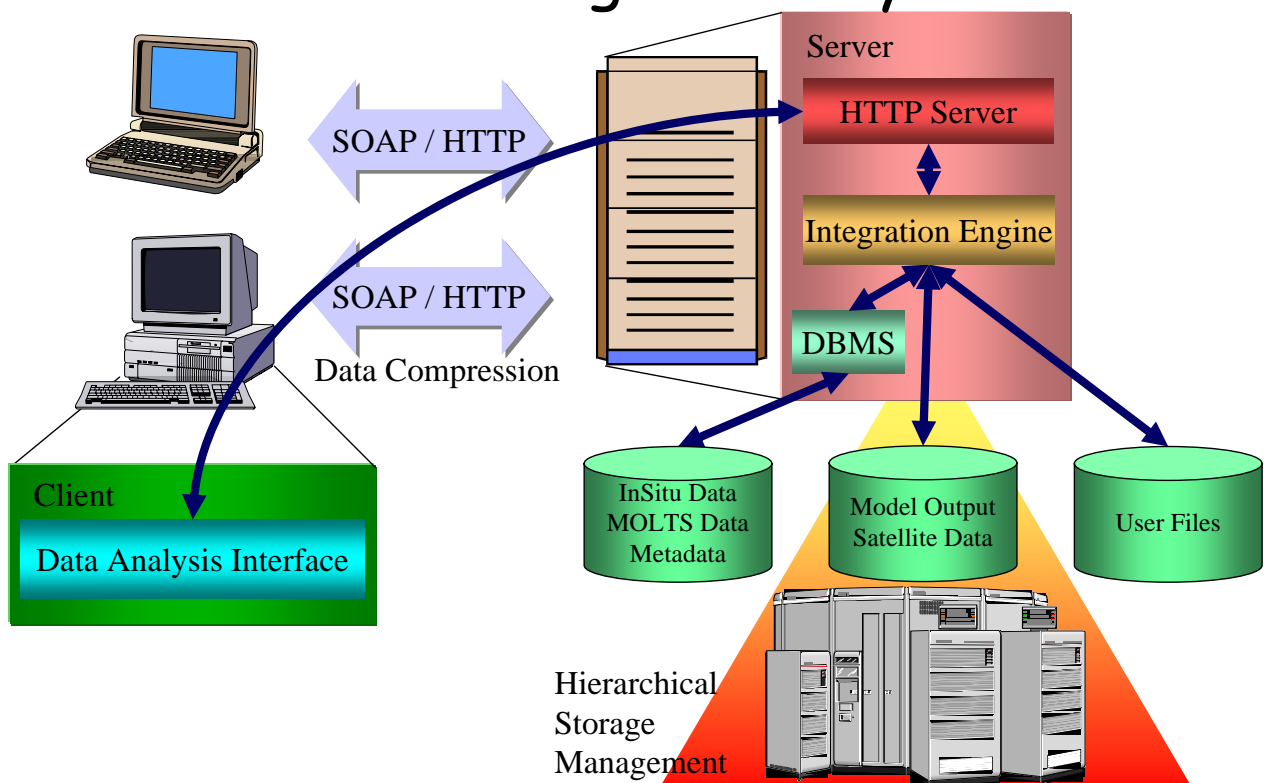
Outline

- Centralized Data Integration System
- Quality Control System
- Metadata Management System

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Architecture of Centralized Integration System



Centralized Data Integration System

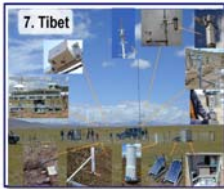
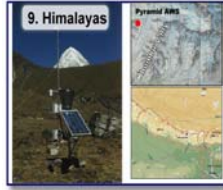
- Expand archive space and enhance performance for increasing data
 - Keep concept of current system
 - However, redesign and reconstruction of the system may be required
 - The change would be hidden for users as possible
- Enrich analysis functions as user requests
 - Some requests have already been received
 - If you have requests, please inform us

Outline

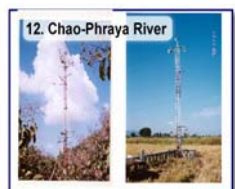
- Centralized Data Integration System
- Quality Control System
- Metadata Management System



Quality Control System for CAMP Data Phase 1 → 2



Eiji Ikoma, Katsunori Tamagawa
Masaru Kitsuregawa, Toshio Koike



Reference Site Name	Year of Station	Site Data Manager	Observation
1. Eastern Siberian Tundra	1	T. Koike, N. Takai	Town
2. Eastern Siberian Tundra	2	T. Koike, N. Takai	Town
3. Mongolia	18	S. Iwano, M. Ishino	AMS, ASIR, Radio
4. Tongyu	2	M. Ishino	Town
5. Korean Peninsula	1	J. Kim	Town
6. Korean Haenam	1	J. Kim	Town
7. Tibet	14	T. Ito, K. Ohno, Y. Higashiyama	AMS, Town, SMTMS, SWS
8. Himalayas	1	J. Kim	Town
9. Haenam	1	S. Iwano, M. Ishino	AMS
10. Northern South China Sea - Southern Japan	1	S. Iwano, M. Ishino	AMS
11. North-East Thailand	25	S. Iwano, M. Ishino	AMS, SWS, SWS
12. Chao-Phraya River	1	M. Aoki	Town
13. Western Pacific Ocean	1	M. Aoki	Town
14. Equatorial Island	2	M. Aoki	AMS
15. Equatorial Island	1	S. Iwano, M. Ishino	AMS

Black : Category 1
 Blue : Category 2
 AMS : Automatic Weather Station
 ASIR : Automatic Station for Soil Hydrology
 SMTMS : Soil Moisture Temperature Measurement System
 SWS : Soil Temperature Measurement System

Quality Control System

■ Ver.1(2004-2005) → Ver.2(2005-2006) → Ver.3(2007-) #in detail, refer JMSJ-CEOP special Issue



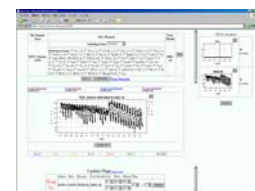
■ CAMP Reference Site for Phase 2

UT site (13) → UT site + JAMSTEC site(25)

■ Modify QC Interface based on some user's comments (Mr. Tamagawa → Ikoma)

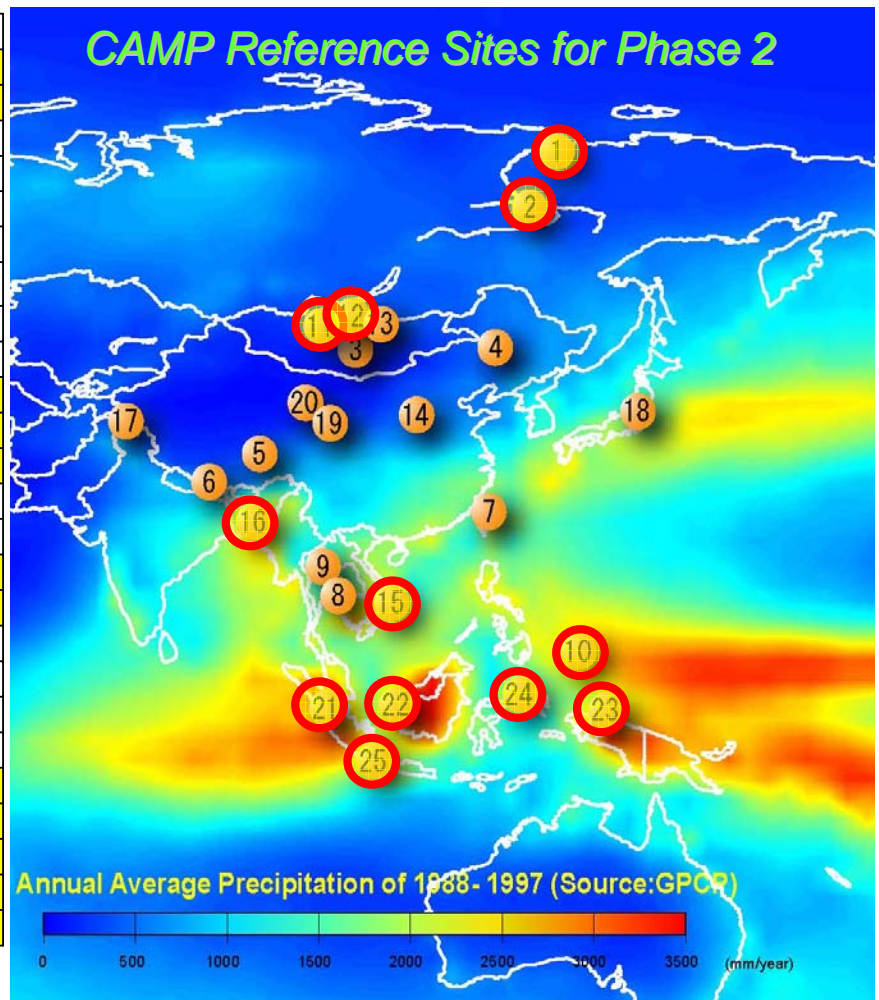
■ Develop Semi-automated data loading tool

■ Enhance our Database system and connect to Meta-data Management System



No.	Ref. Site Name
1	Eastern Siberian Tundra
2	Eastern Siberian Taiga
3	Mongolia
4	Tongyu
5	Tibet
6	Himalayas
7	Northern South China Sea - Southern Japan
8	Chao-Phraya River
9	North-East Thailand
10	Western Pacific Ocean
11	Mongol Arvayheer
12	Mongol Nalaikh
13	Northern Mongolia
14	Downstream of the Yellow River
15	Central Vietnam
16	Northeast Bangladesh
17	Pakistan
18	Tsukuba
19	Lanzhou
20	Heihe River Basin
21	Western Maritime Continent
22	Central Maritime Continent
23	Eastern Maritime Continent
24	Northern Maritime Continent
25	Southern Maritime Continent

○ JAMSTEC のReference Site



■ If you have more comments for our QC system, please contact to Mr.Tamagawa or me.

■ Thank you.

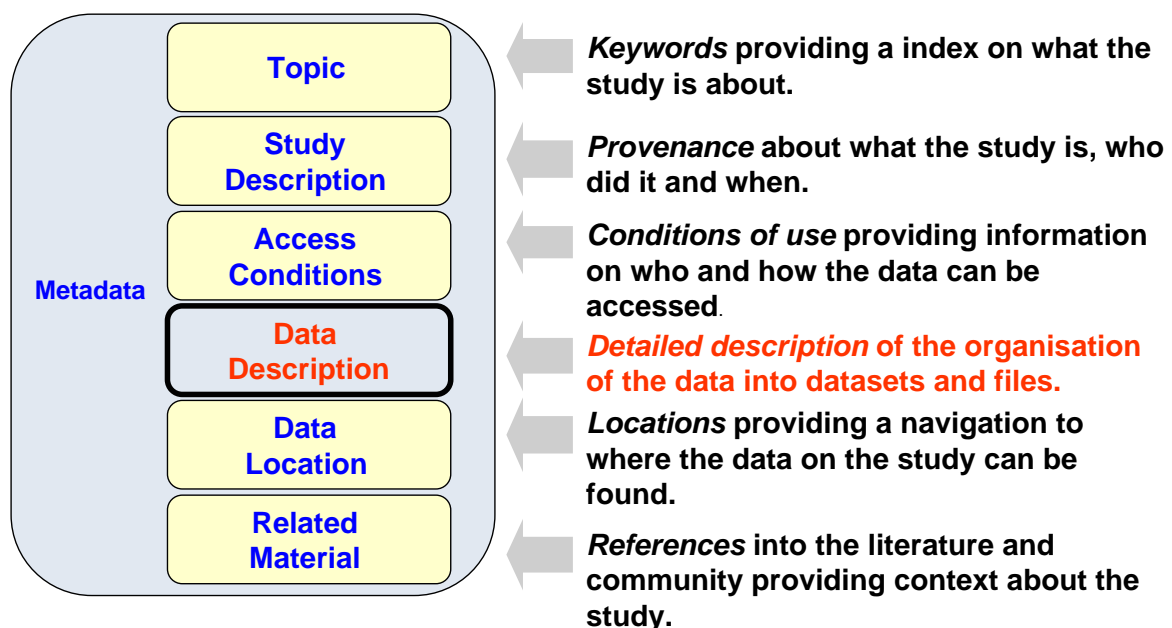


We are waiting for your data and requests!

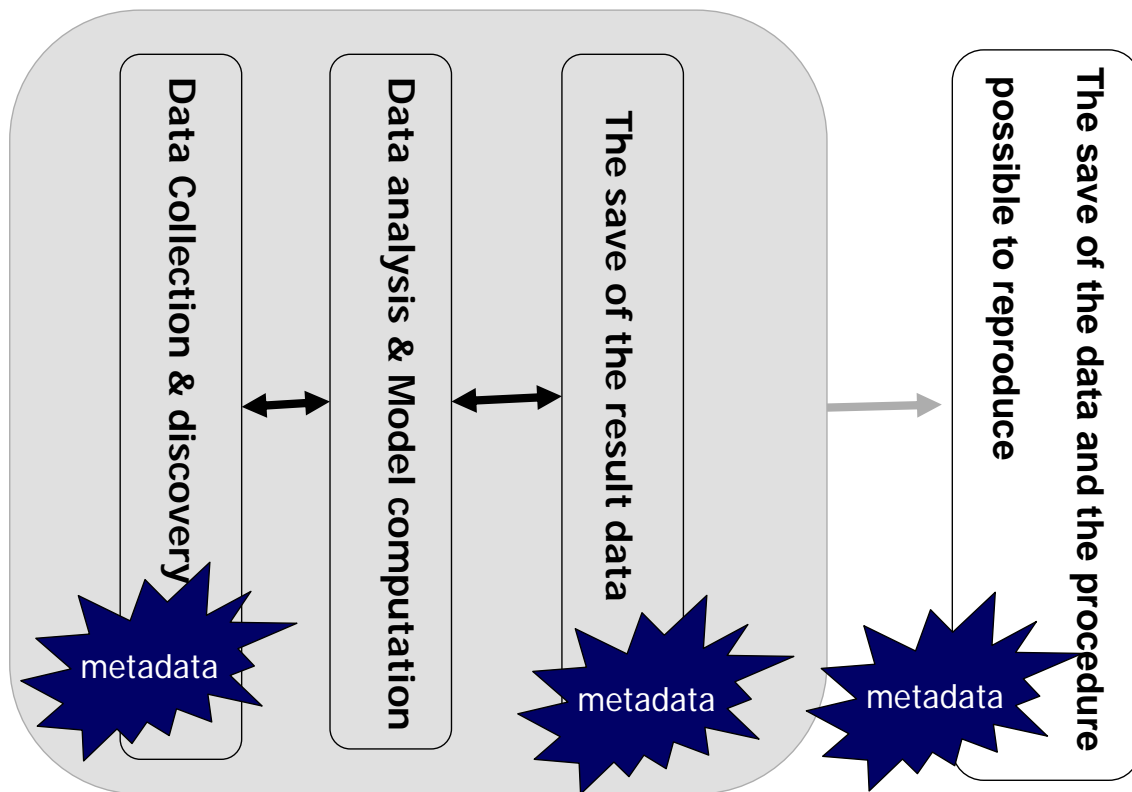
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CCLRC Scientific Metadata Model



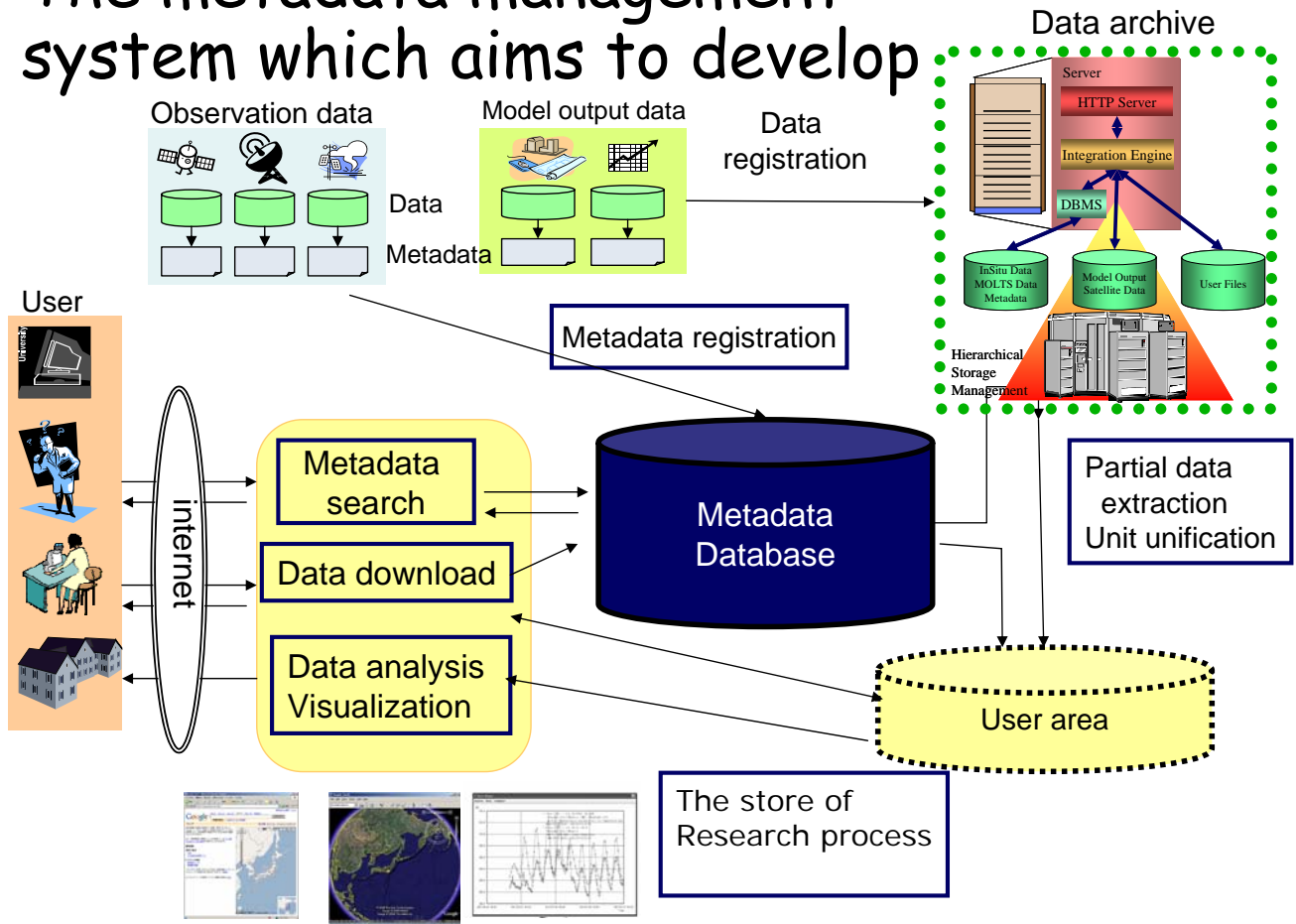
The metadata to support a research process



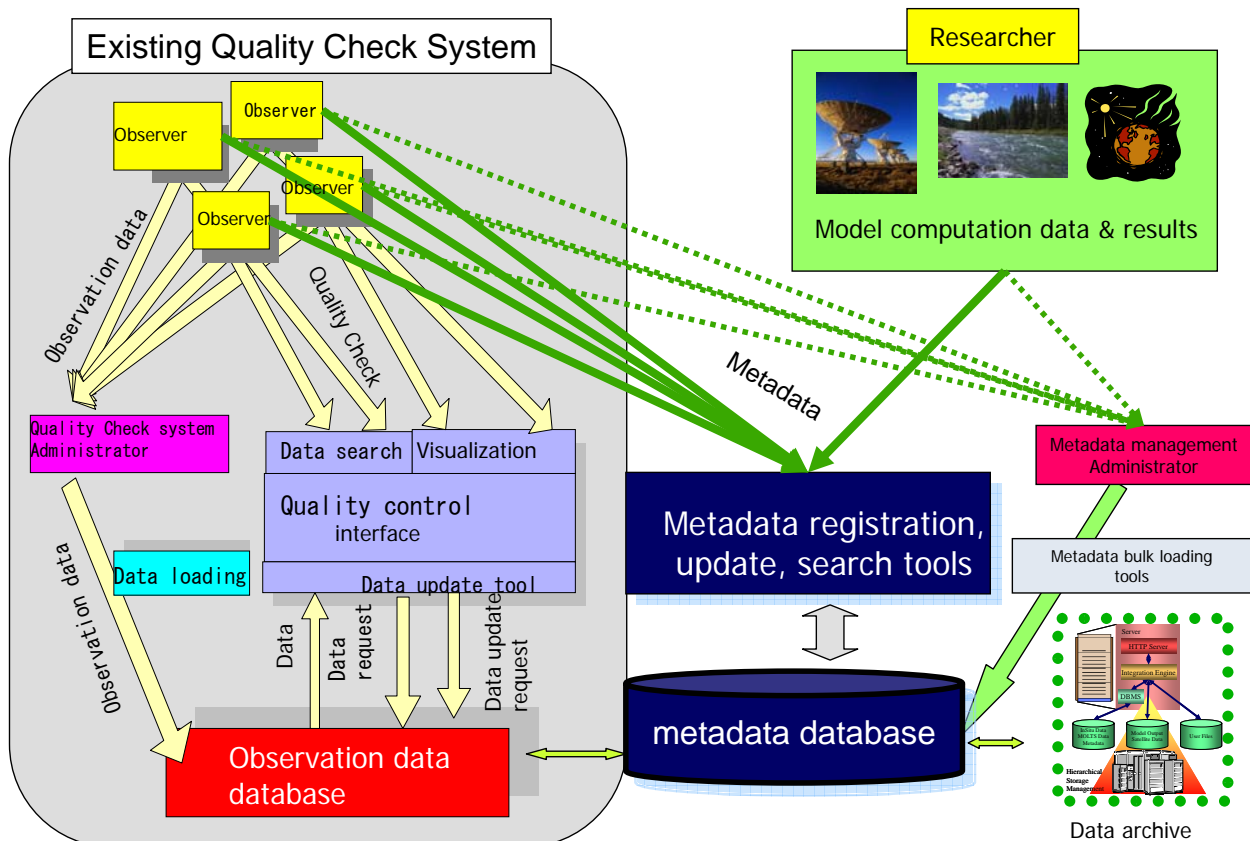
The role of the metadata

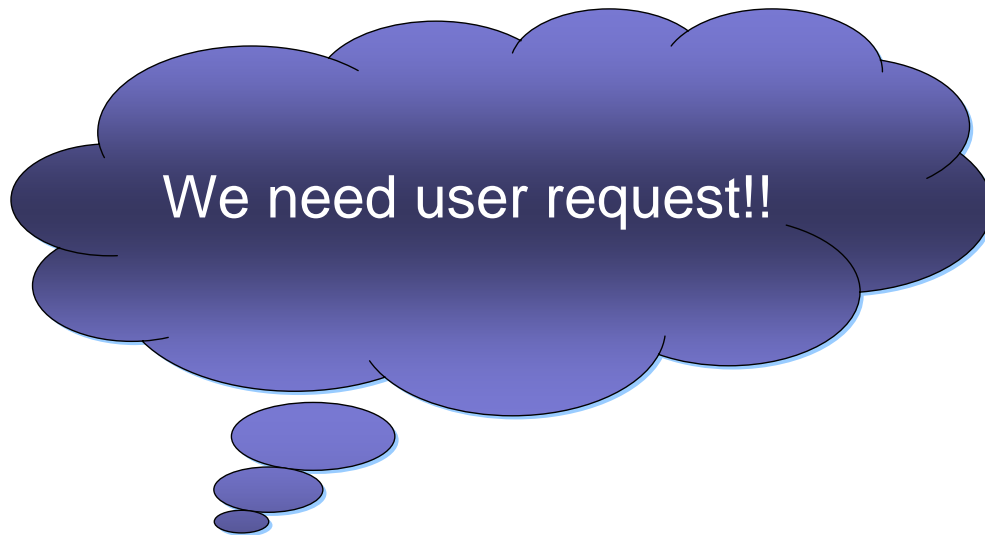
- To speed up and enrich searching for resources
- To obtain additional information to users of the data it describes
- To bridge the semantic gap
- To convert the data automatically and pass it to another "smart" tool as input
- To manipulate the user processed data
- To automate workflows

The metadata management system which aims to develop



Metadata registration system (plan)





What data products are important using the metadata management system?