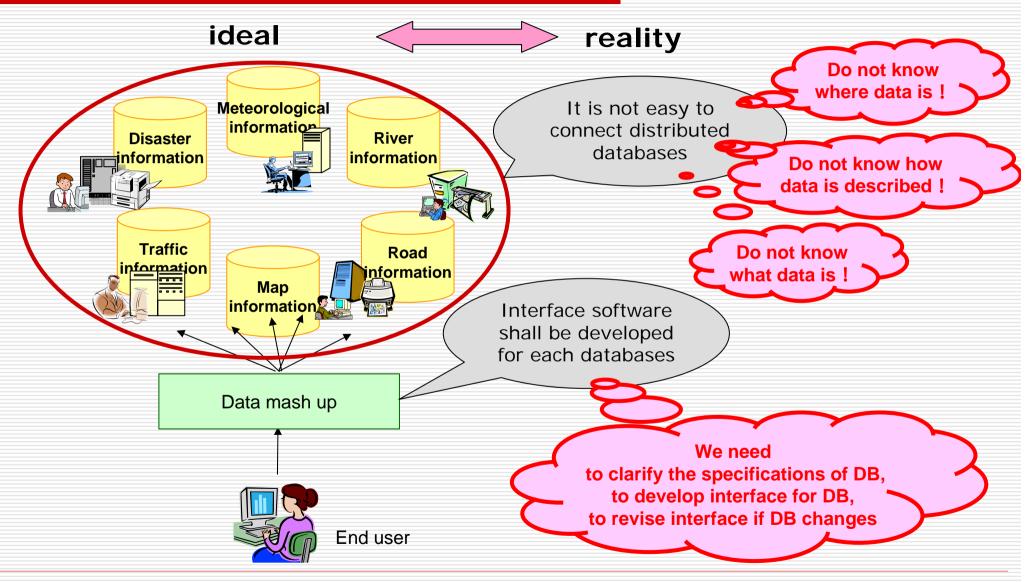
# JACIC/LCDM registry

## Minoru AKIYAMA JACIC

5<sup>th</sup> ACIT round-table meeting 6,7 August 2009

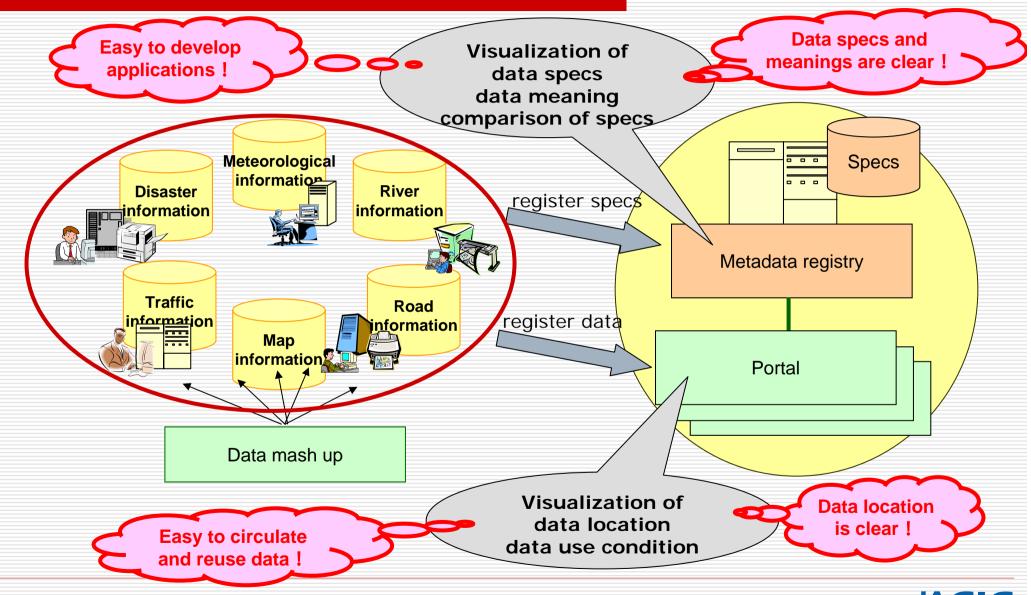


# Why do we need metadata registry?





# If metadata registry is available, · · ·





# Activity of JACIC on information sharing infrastructure

#### Standardization Committee

Discussion by professionals

- •Framework of registry and portal
- •Mechanism of registration and retrieval
- •Qualification mechanism of standards
- Operational issues

#### **LCDM Forum**

Outreach activity

- •Business model design
- •Publicity and promotion
- •Technical specification of LCDM
- •Use case survey

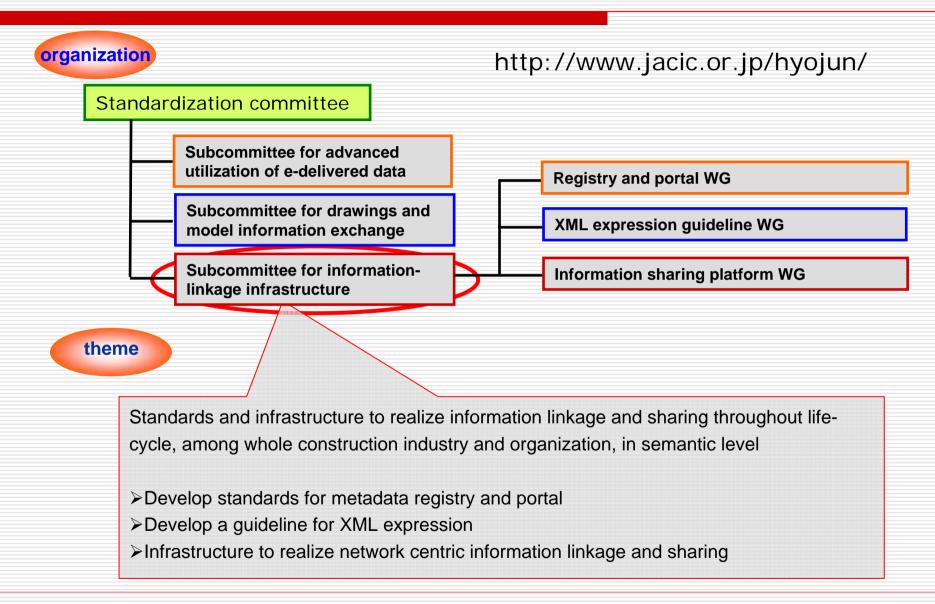
- •Prototype registry (2007)
- •JACIC/LCDM registry (2008)
- •Operation and upgrading (2009 ~ )
- •Study on existing registries in USA (2006, 2009)

Development of JACIC/LCDM registry

JACIC original project



#### Infrastructure information standardization committee



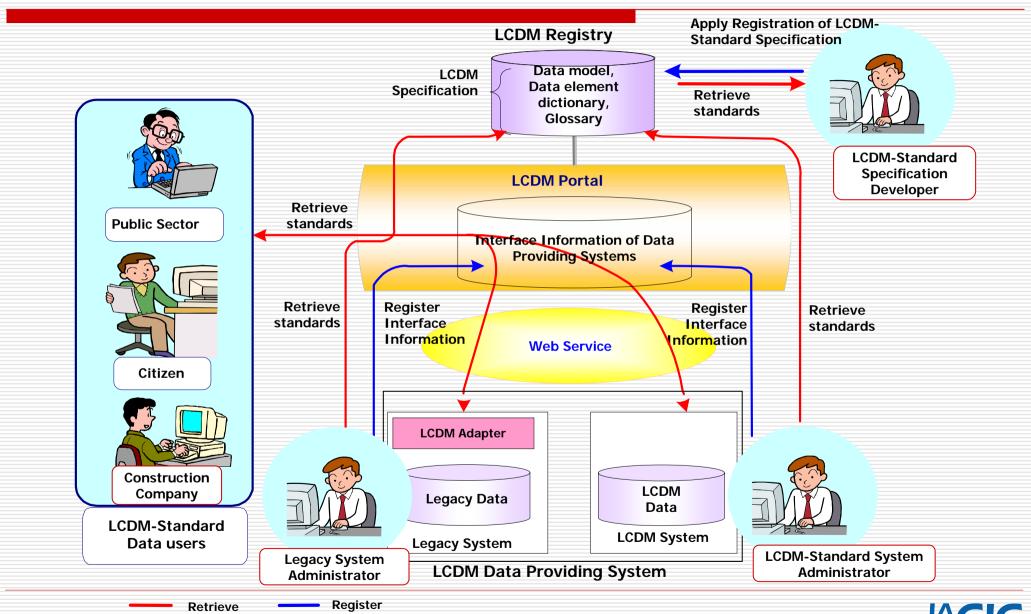


# LCDM Forum (LCDM; Life Cycle Data Management)

- □ Non-profit task force led by private companies Established in Feb. 2005
- ☐ First stage was resolved in Feb.2007 and Second stage restarted in Jan. 2008
- □ Construction industry, IT industry, and public sector members
- □ Proposal of forum was adopted in "Innovation 25 for Japanese construction field" in 2007
- □ Proposal of forum was referred in "i-Japan strategy 2015" related documents in 2009



#### **Concept of LCDM System**



#### JACIC/LCDM Registry

## Background

- There are many data specification each organization.
- But, we don't know what kind of data specification and where can we get the data specification.
- So, there are similar data in different definition between data specifications.

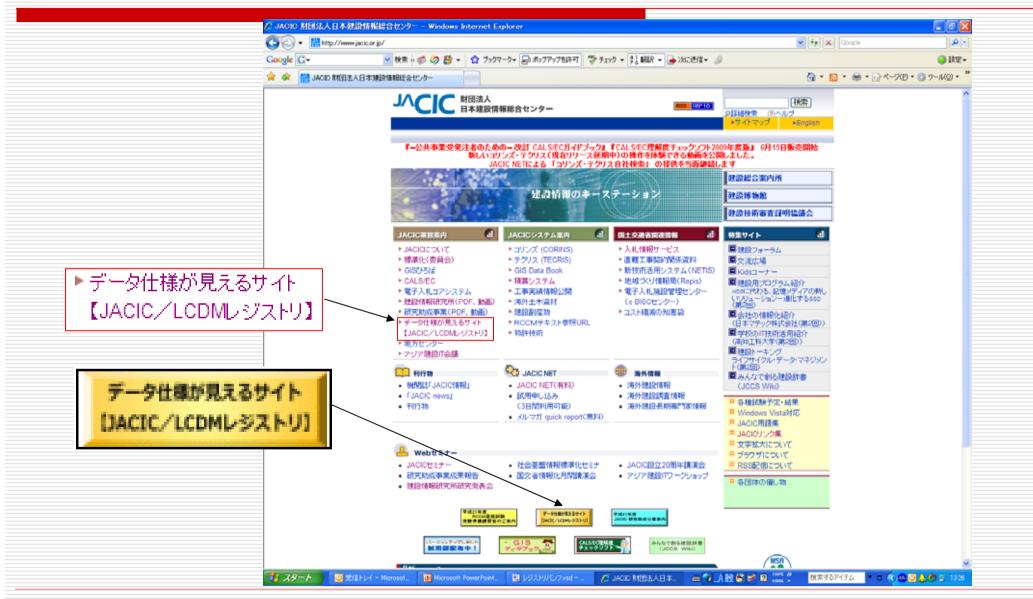
#### Main characteristics

- Data specifications and metadata of construction field including old version are retrievable and downloadable.
- Metadata can be referred in four types of documents as data reference manual, data dictionary, data model and terminology dictionary
- Specification can be retrieved through keywords in whole documents
- Search result is displayed in listings with metadata of specifications
- Metadata among selected specifications can be compared

https://www.registry.jacic.or.jp/lcdmAdmin/html/UserRegistryTop.html

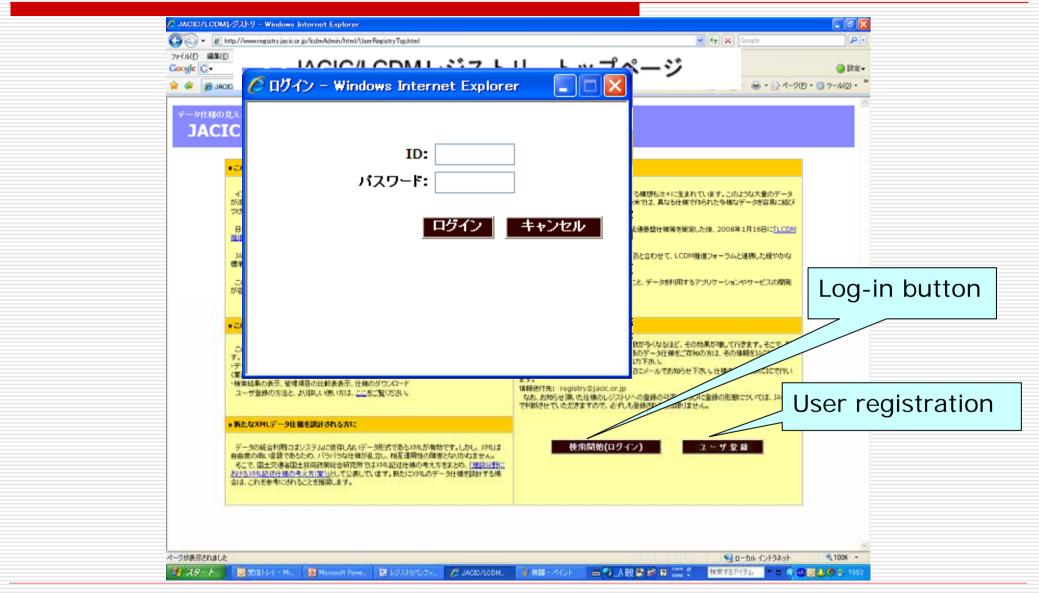


#### JACIC top page http://www.jacic.or.jp/



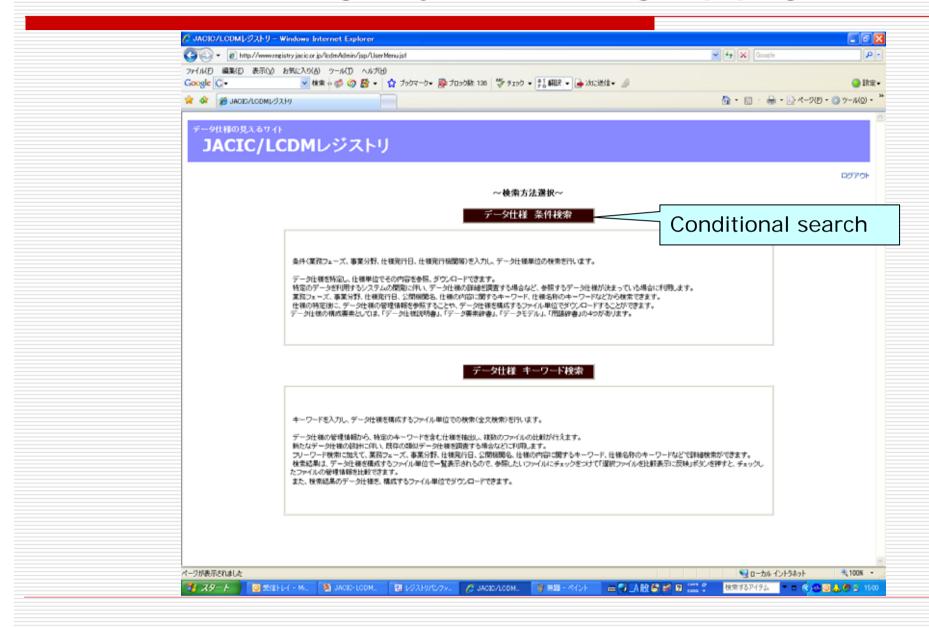


#### JACIC/LCDM Registry – top page

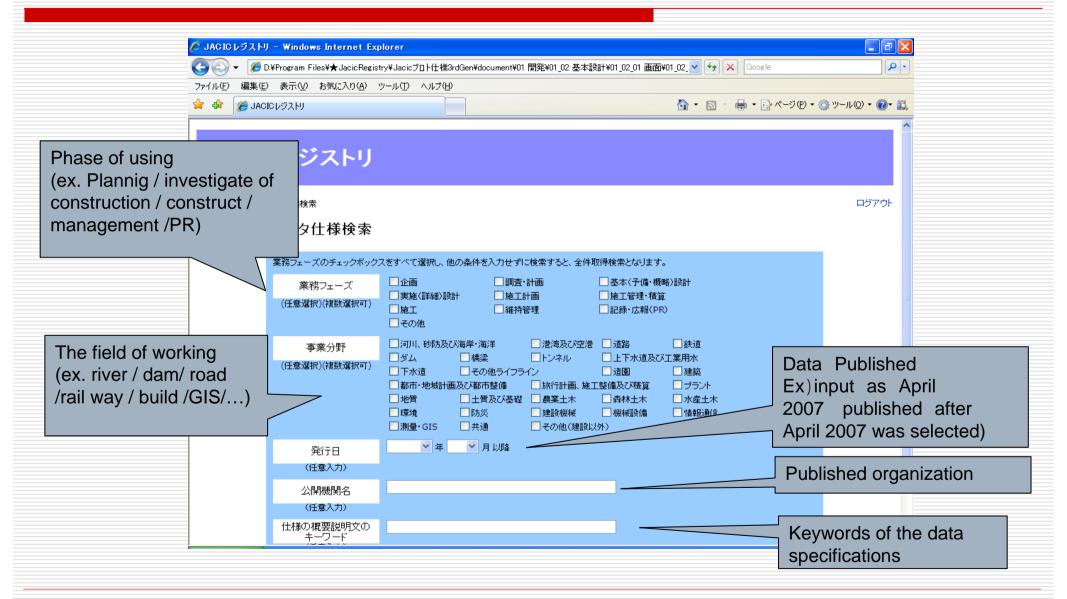




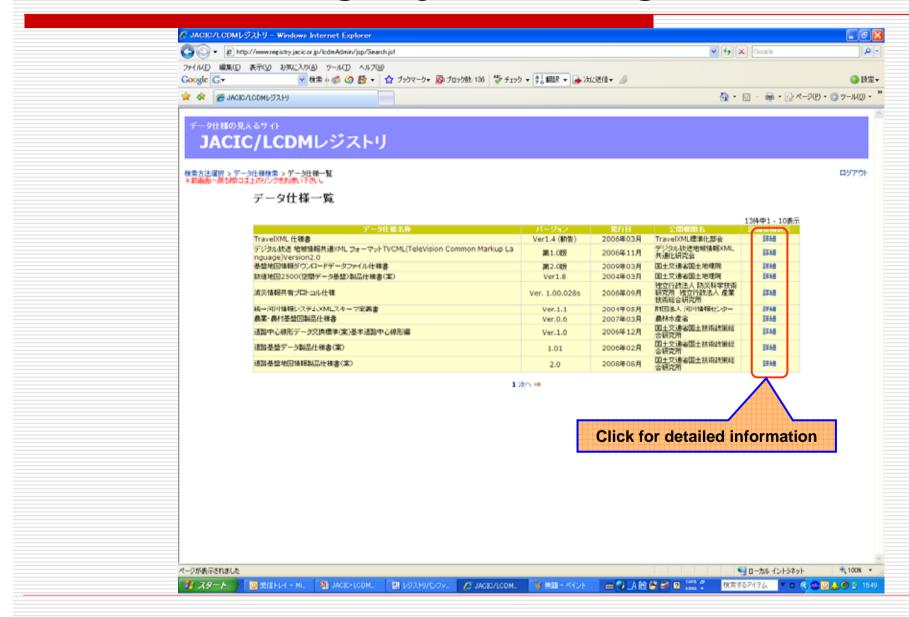
### JACIC/LCDM Registry - Searching top page



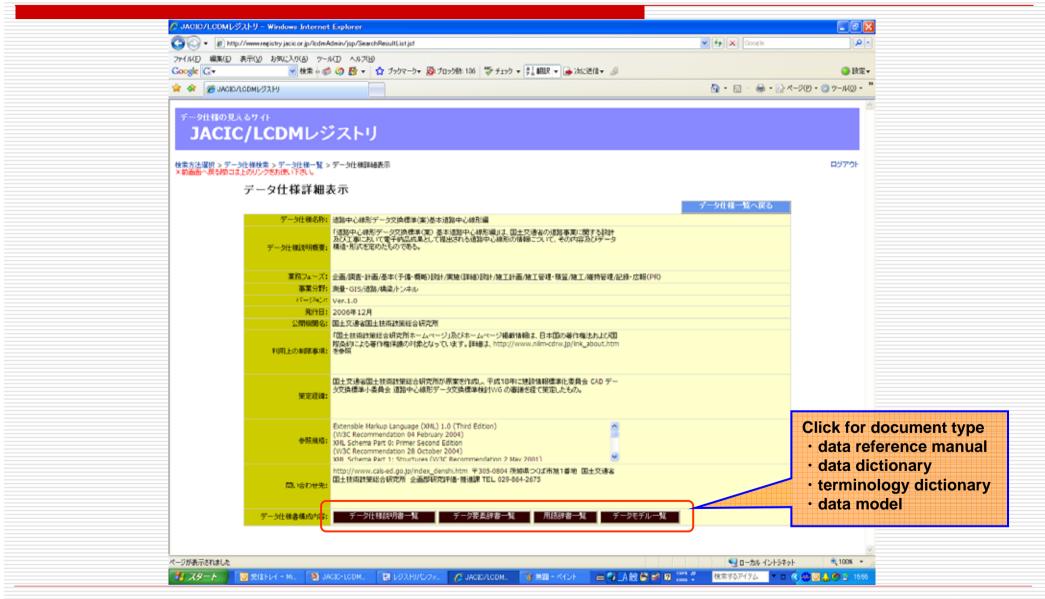




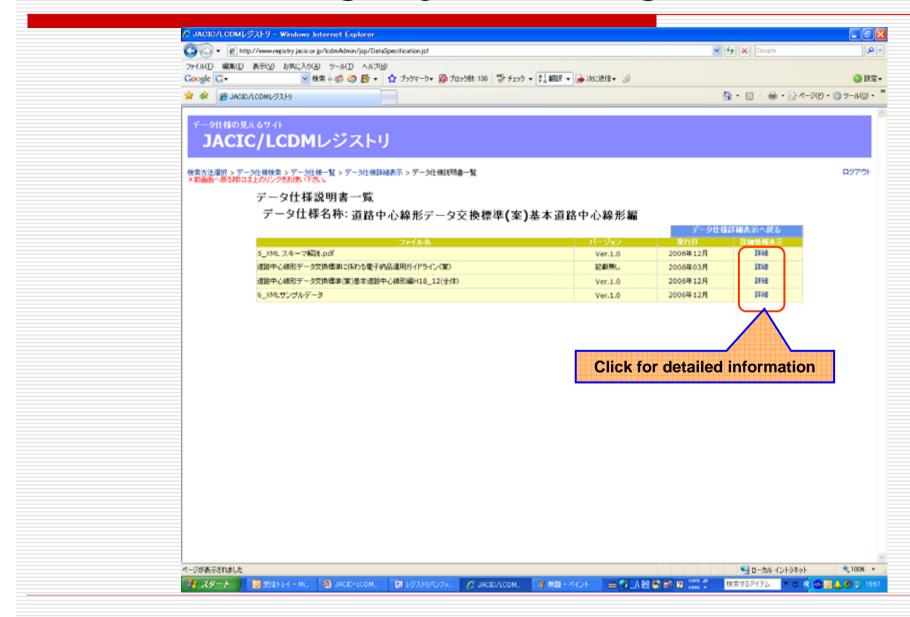




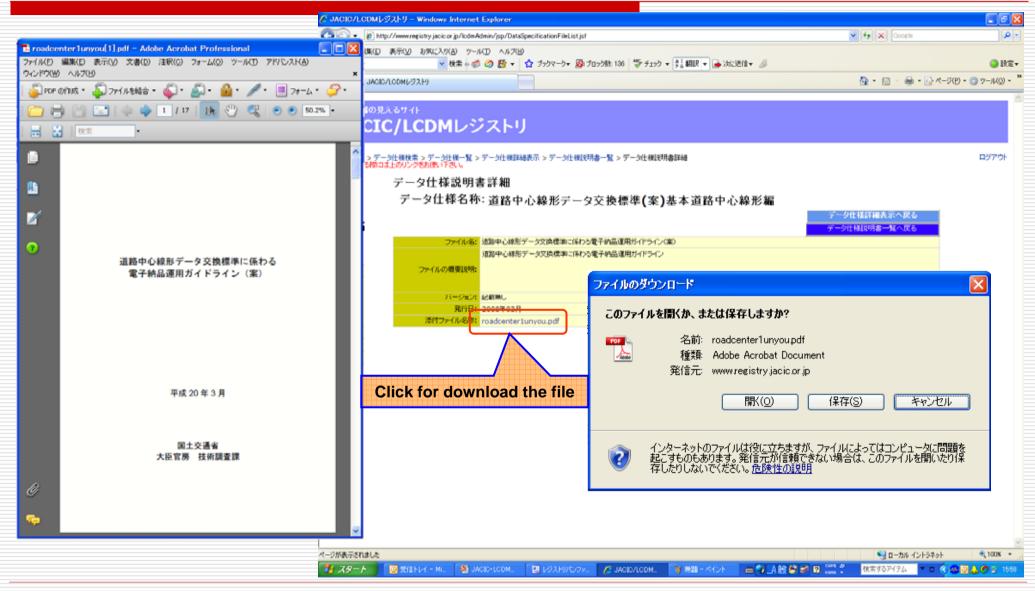






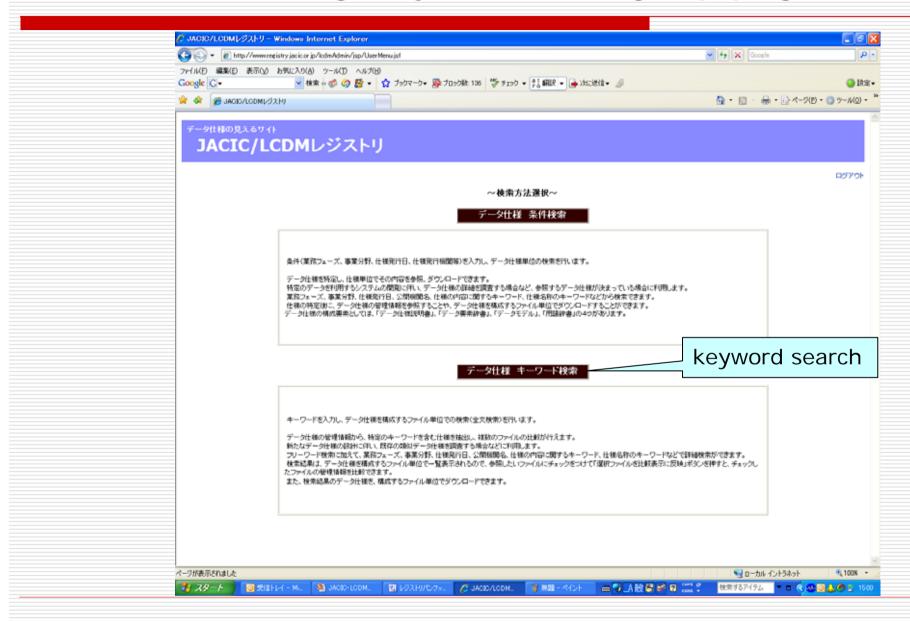




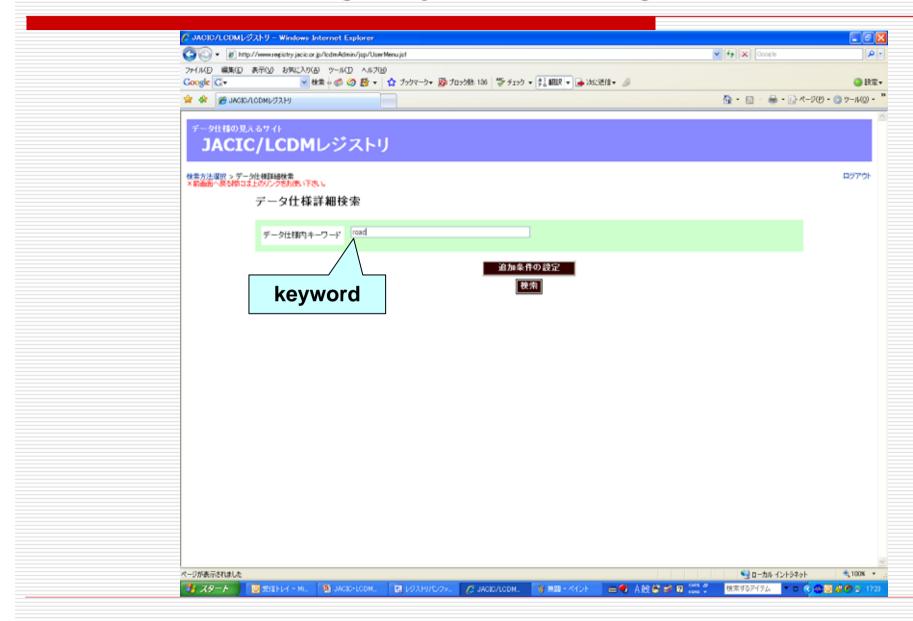




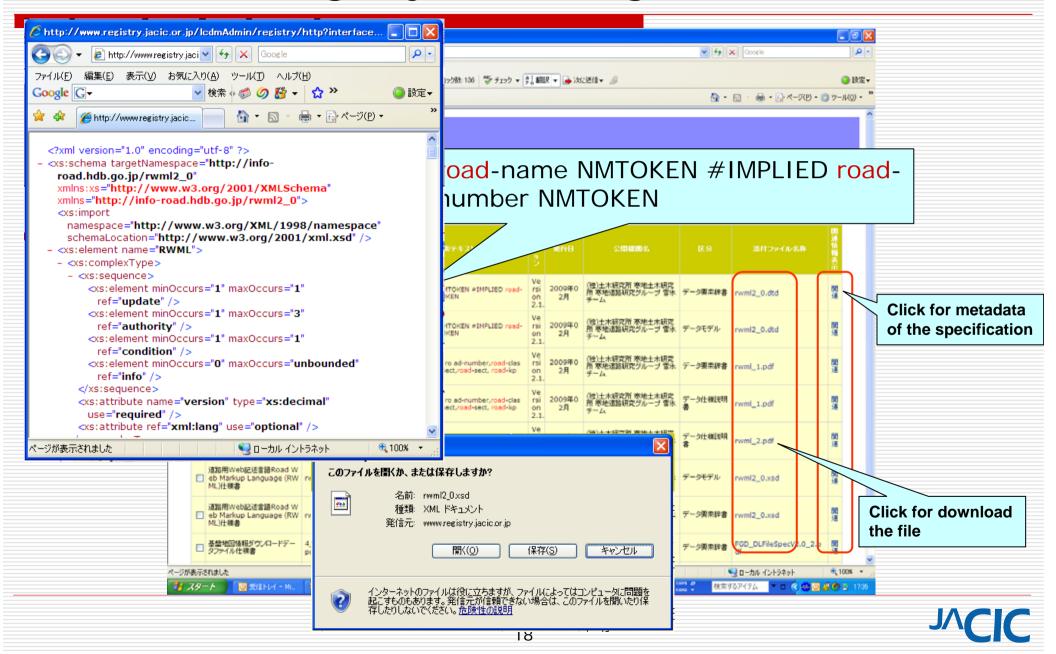
## JACIC/LCDM Registry - Searching top page







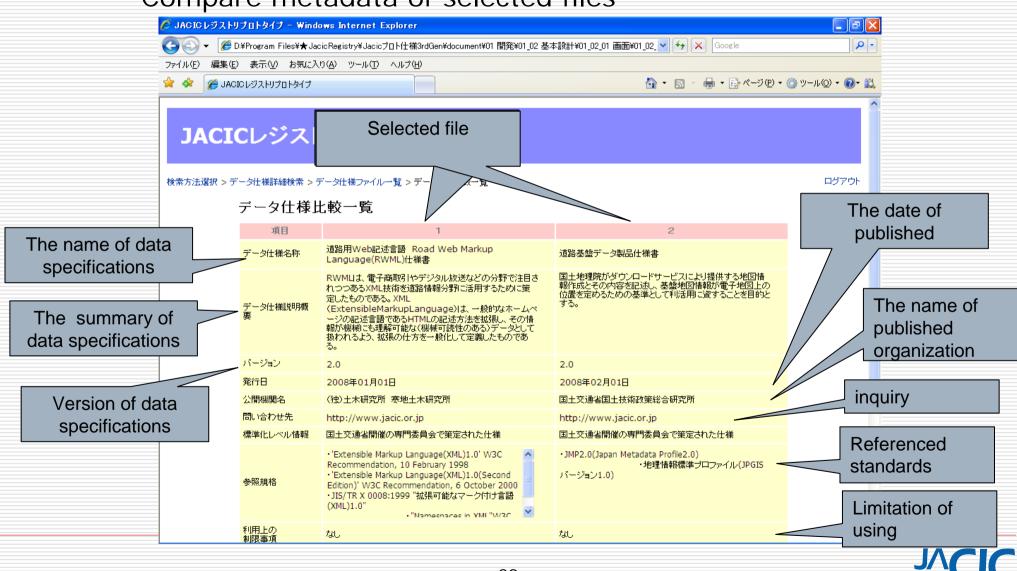




Searching result and getting metadata グ JACICレジストリー Windows Internet Explorer \_ 6 X (2) ← Ø D.WProgram Files¥★ Jacic Registry¥ Jacic プロト仕様3rd Gen¥document¥01 間発¥01 02 冬本設計¥01 02 01 画面¥01 02 ▼ Sentence around The name of data ⊕ • the key word The name of data specifications specification file JACI Version of data Check box to specification 検索方法選択 > デ 細検索 > データ仕様ファイル一覧 select files データ仕様 ァイル 一覧 ルを比較表に反映 4 件中 1 - 4 表示 Type of file. 地質・土質調査成果電子 納品要額(変) なっぱ A県のポーリング柱状図に関する データ仕権説明書です。 1.0 02月28日 示画面において、管理情報の詳細 表示を行うとともに、データ仕様書 を構成するファイルの一覧を表示 7\_4\_符号化仕模作成 1.0 することとする。ま データ仕様 距離標 +地点: GM Point +路線番号: Integer 4\_1\_応用スキーマクラ +現旧区分コード ◆上下区分:上下区分コード +接頭文字:接頭文字コード 道路用Web記述言語 2 通行規制 circumstances change. (独)土木研究所 奈地 データ仕様 Road Web Markup RWML RWML仕様書 土木研究所 04月01日 Language(RWML)f± organizations that conduct rwml.pdf The date of The name of published publishing organization



#### Compare metadata of selected files



# Thank you!!

JACIC/LCDM registry
http://www.registry.jacic.or.jp/lcdmAdmin/html/UserRegistryTop.html

Infrastructure information standardization committee http://www.jacic.or.jp/hyojun/

