

Japan's Common Vocabulary Policy

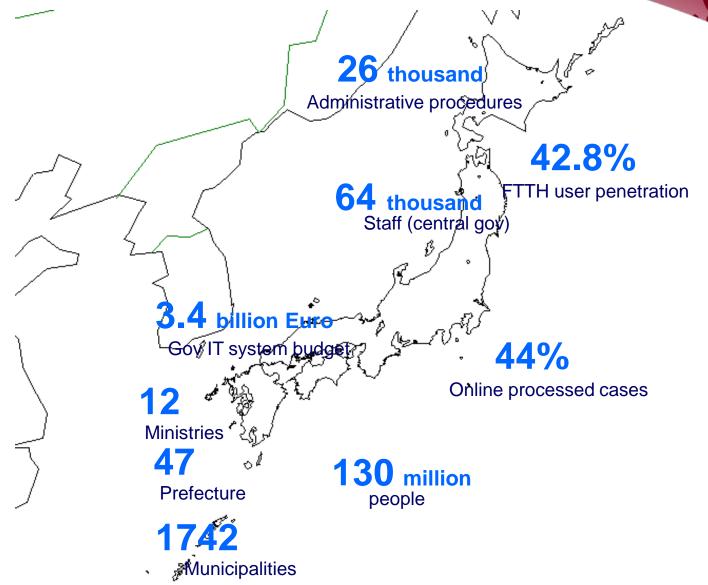
Takashi Wada Ministry of Economy, Trade and Industry May 2015



WHY



Fragmentation of Japan's government IT system

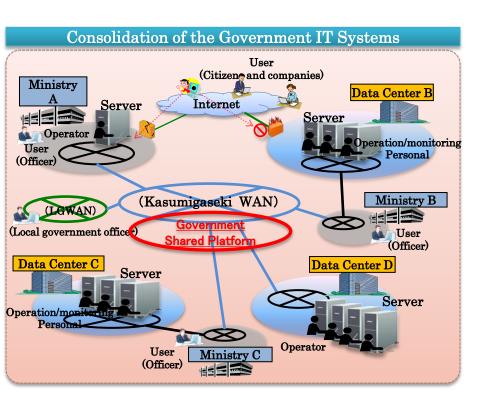




Reform of government IT system

Shift to shared platform system

Reduction of gov IT systems





Still on the way...



Interoperability policies

S.IMI

- EDI (online administrative procedure)
 - eGovernment Plan(1994)
- Enterprise Architecture
 - ➤ Enterprise Architecture Plan for Government (2003)
 - · Data architecture & Data reference model
- Web reform
 - Standardize of implementation/UI rule for local government (2011)
- Action plan for open government infrastructure (April 2014)

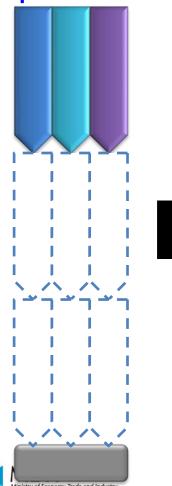


Action Plan for Open Government Infrastructure

April 25 2014

Gov. CIO Council Decision

Before the action plan Independent services



After the action plan
Services on an architecture

Government services, Private services Ministry site Special site Acquisition, grant info. site Sector

Contents

Web contents (Policy, News, Law, etc.)

Data Catalog

Citizen centric services

- Mash-up
- -BPR
- Data science

Contents and Platform

- Structured contents
- Common tags
- API

Governance

Rule
Gov domain (Internet address)
Code
Vocabulary
Character-set

Hardware/Middleware (Government Cloud)

Standard based Infrastructure

- Core vocabulary-set Name, Address and Organization.
 - METI will launch IMI DB.
- MIC will promote API project.
- Sustainability
- Standards, codes, rules

Lessons from the Great East Japan Earthquake (1)

E, IMI

- 11 March 2011 at 14:46 (JST)
- Magnitude 9.0
- 15,883 Deaths and 2,654 Missing (Most victims died due to drowning in Tsunami)
- Total financial damage of 25 trillion Japanese yen (approx. 175 billion Euro)





Lessons from the Great East Japan Earthquake (2)

Interoperability

Shelter Information

- Only in paper and PDF formats
- Address and location information were missing or wrong, confusing abbreviation
- Outdated Information of shelters



Transparency

Radiation Information

- SPEEDI (Ministry of Education, Culture, Sports, Science and Technology), Monitoring Post (Ministry of Environment), and local government data source
- Locations of data were not clear
- Locations of data changed frequently





Lessons from the Great East Japan Earthquake (3)

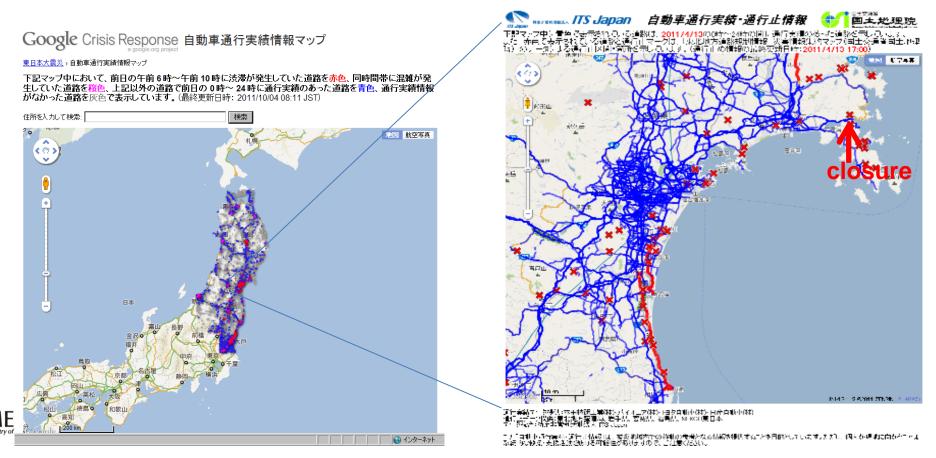


Disclosure

Road trafficability and closure information by ITS Japan Participated car manufactures:

Toyota, Honda, Nissan, Pioneer

Automobile Traffic Record and Road Closure Information



Open Government Data Strategy



- Based on the lessons from Great East Japan Earthquake
- IT Strategic Headquarters created on July 4, 2012
- 3 Principles
 - Government transparency
 - Public participation and collaboration
 - Economic stimulus and efficiency in government
- Establishment of special committee of open government data
- Creation of a data catalog site

電子行政オープンデータ戦略

「平 成 2 4 年 7 月 4 日 高度情報通信ネットワーク社会推進戦略本部決定

「新たな情報通信技術戦略(平成22年5月11日高度情報通信ネットワーク社会推進戦略本部(IT戦略本部)決定)」及び「電子行政推進に関する基本方針(平成23年8月3日IT戦略本部決定)」の趣旨に則り、オープンガバメントの推進に当たっては、公共データは国民共有の財産であるという認識の下、公共データの活用を促進するための取組に速やかに着手し、それを広く展開することにより、国民生活の向上、企業活動の活性化等を図り、我が国の社会経済全体の発展に寄与することが重要であるため、公共データの活用促進のための基本戦略として、「電子行政オープンデータ戦略」を以下のとおり策定する。

第1 意義・目的

公共データの活用を促進する意義・目的は、次のとおりである。



"Declaration to be the World's Most Advanced IT Nation"

(Cabinet Approval on 14 June 2013)

- 3. Development of one-stop public services that anyone can access at any time and from anywhere
 - (1) Provision of Highly Convenient Electronic Government Services

Open user environments that utilise cloud computing are being developed through the standardisation and sharing of data format, terminologies, codes, and characters and the public release of application interfaces (API) to facilitate active participation by members of the public as stakeholders.

Roadmap

	2013	2014	2015	2016	2017	2018
	Deployment of character data platforms [Ministry of Economy, Trade and Industry] Provide highly convenient public services by promoting collaboration between government ministries based on the action plan. [Cabinet Secretariat and Associated Government Ministries] Development / Demonstration of Vocabulary Database for Information Linkage [Ministry of Economy, Trade and Industry] Collaboratio Collaboratio					
1 str	Development and demonstration of the common API for information circulation and sharing platform [Ministry of International Affairs and Communications]					





PROJECT

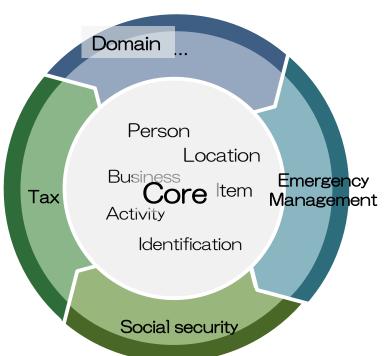


IMI Project (Apr. 2013 -)

- Responding to the need for interoperability, transparency, opendata
- Focused on platform layer

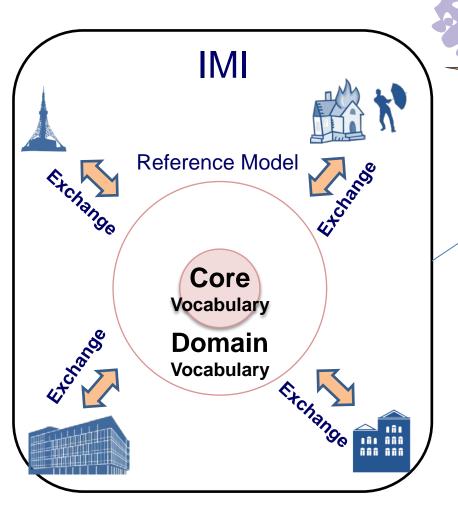
- **Applications** Service Layer Share, Exchange, Store (Sharing Platform) **Platform** Layer **Vocabulary** IMI **Enterprise Character-**Infrastructure Citizen ID Laver ID set
- IMI : Infrastructure for Multilayer Interoperability
 - Information sharing platform with primary vocabulary set and attributes of objects
 - · Core domain and business domains
 - International & cross field interoperability
 - Utilise existing standards (e.g. LG vocabulary set & DC ··)





Interoperability among government agencies





System Cooperation

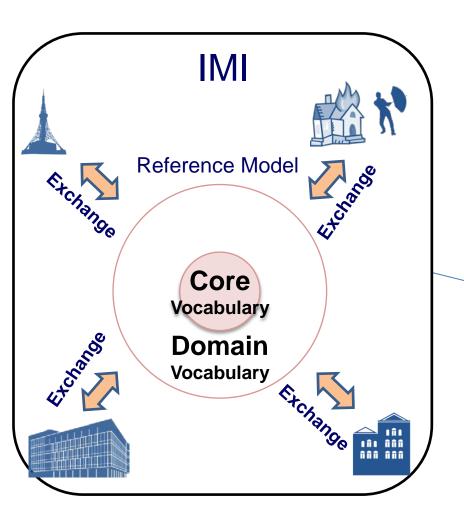


Information exchange between systems using Information Exchange Package(IEP)



Interoperability for opendata









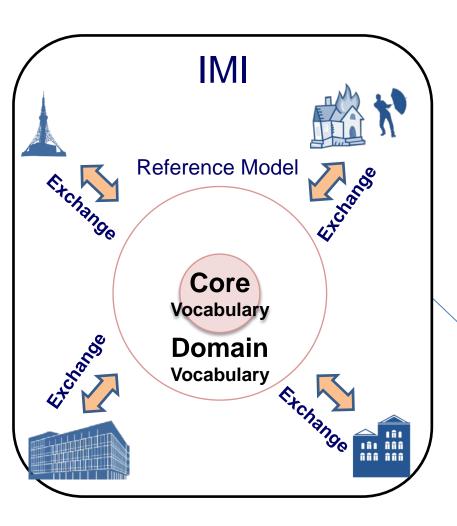
Open Data

Identify semantics with vocabularies, and attributes defined in Information Exchange Package.



Interoperability for web services







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Search

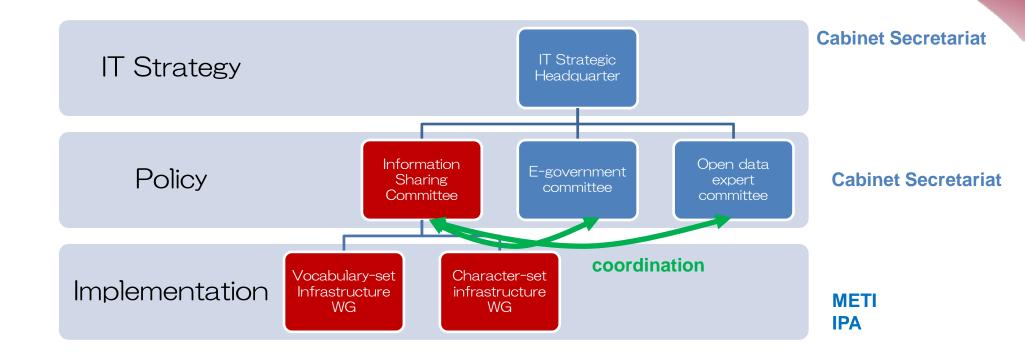
Perform efficient search by set of defined attribute information

Schema.org



IMI Implementing Organization









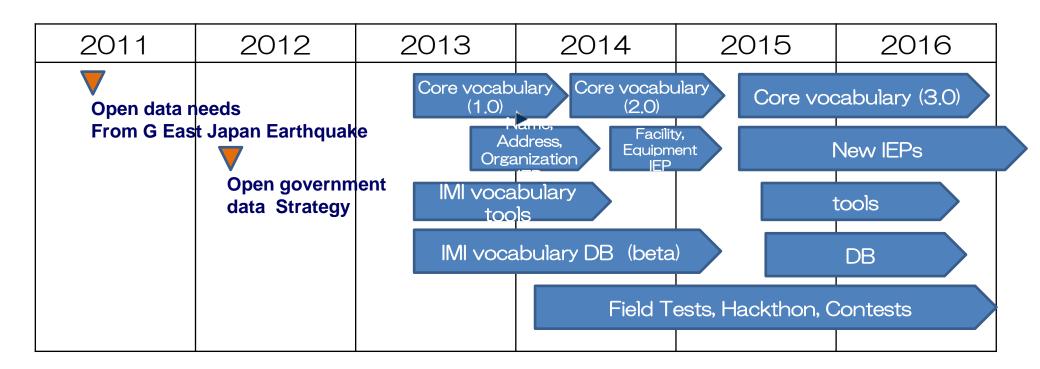
FUTURE PLAN



IMI projects timeline

J. IMI

- Common vocabulary project started in April 2013
- First major development (tools, DB blue plan, core vocabulary set) in Summer 2014





Strategy

- Promotion of implementation
- Organization reform
- International Cooperation

Core area

- Refine the core vocabulary
- Mapping to the other vocabularies

Code

- Code listing
- Code mapping

Domain area

- Agriculture
- Tourism
- ******

