

# KOREA DOI CENTER

OUT OF CITE, OUT OF MIND!

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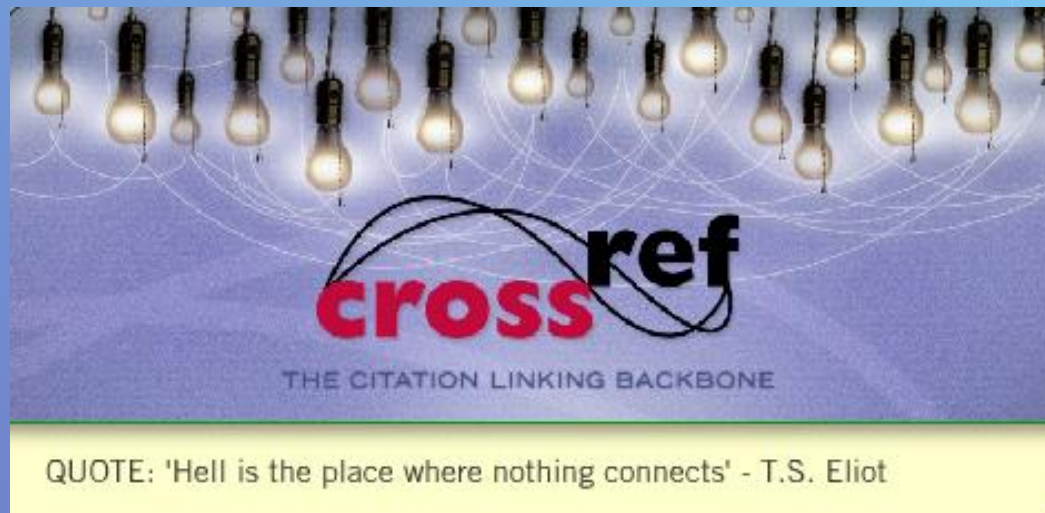
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2. Korea DOI Center : Vision
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4. Suggestions

# 1. Background



# Research Impact / Total Impact

Impact

Assessment

Citation Analysis

DOI  
Cited-by-linking

Various Altmetrics

-DOI enables Citable environments by Geoffrey Bilder  
-DOI enables Altmetrics by PLOS ALM Workshop

## Impact

usage

downloads  
views

peer-review

expert opinion

citations

alt-metrics

storage  
links  
bookmarks  
conversations

# Ways of Raising Visibility

## ● DOI(Digital Object Identifier)

CrossRef's cited-by linking service enables an author to know who is citing his or her article, to follow references and to cite effectively by linking references of journal articles.

(Pentz, E. 2001. Brief communication: reference linking with CrossRef. Interlending & Document Supply, 29(1), 20–23.).

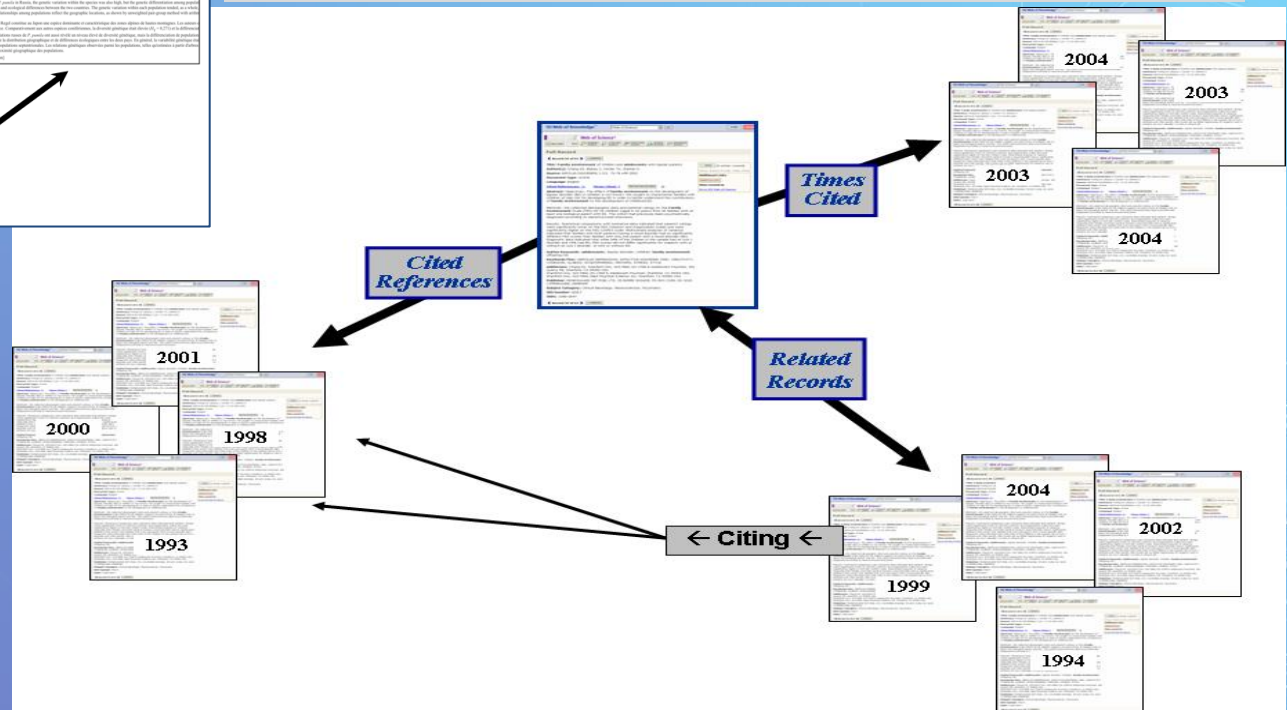
User clicks on CrossRef DOI reference link in Journal A

User accesses cited article in Journal B

Tani, N., N. Tomaru, M. Araki, AND K. Ohba. 1996. Genetic diversity and differentiation in populations of Japanese stone pine (*Pinus pumila*) in Japan. *Canadian Journal of Forest Research* 26: 1454–1462. [CrossRef]

<http://dx.doi.org/10.1139/x26-162>

crossref DOI directory returns URL





# Brief history

|                |  |
|----------------|--|
| July, 2007     | Joining Crossref Membership  |
| December, 2007 | The first DOI assignment for the selected societies & the disposit project was launched.                 |
| January, 2008  | The KoreaScience service; the response page of the domestic academic articles DOI was opened.            |
| June, 2009     | Cited-by-linking sign-up & Multiple resolution services were started.                                    |
| December, 2009 | 30 Societies and 42 Scientific journals are underway. (Total: 6,582 records)<br>KSCI new site is opened! |
| 2012           | 100,000 articles deposited to Crossref in total, CrossCheck started                                      |
| 2014           | 400 Scientific journals are underway in total  |
| December, 2015 | KISTI was designated as <b>10<sup>th</sup> DOI RA</b> since January,1,2016                               |
| 2016           | 200,000 articles deposited to Crossref in total  |

# DOI RAs

[http://www.doi.org/registration\\_agencies.html](http://www.doi.org/registration_agencies.html)

- In 2015, KISTI planned to be a DOI Registration Agency to promote global accessibility to Korean research content.
- KISTI was designated as **10<sup>th</sup> DOI RA** since January, 1, 2016
- ISTIC : 2007
- CNKI : 2013
- JaLC : 2012



[airiti, Inc.](#)



[Crossref](#)



[China National Knowledge Infrastructure \(CNKI\)](#)



[DataCite](#)



[EIDR \(Entertainment Identifier Registry\)](#)



[ISTIC \(The Institute of Scientific and Technical Information of China\)](#)



[JaLC \(Japan Link Center\)](#)



[Korea Institute of Science and Technology Information \(KISTI\)](#)



[mEDRA \(Multilingual European DOI Registration Agency\)](#)



[OP \(Publications Office of the European Union\)](#)



## 2. Korea DOI Center : Vision



# Korea DOI Center

A national project for improving accessibility to Korean research content

## Adapting Global Standard Identification System on Korean Research Content

- Collecting all metadata of Korean research content
- Promoting utilization for the collected research content in Korea
- Ensuring easy and persistent access to Korean research outcomes globally

### Social Infrastructure

#### Collaboration With

- Content holders
- DOI registration agencies
- Other Identification systems as ISNI,UCI

### Technical Infrastructure

#### DOI Service

- DOI registration service
- Simple and multiple resolution
- Feasibility study on registering diverse public content

#### Data Curation

- Making data standardized and linkable
- Making data preserved and reused
- Promoting data sharing and citation culture

# Korea DOI Center : Vision

## Korea DOI Center Registration Agency

- Registration of Journal Articles, Proceedings, Scientific data and R&D Reports

- Collaboration
- Providing DOI Services
- Data Curation

## Crossref Membership

- Sponsoring Membership
- Deposit of Journal Articles

- Cooperation between RAs
- Exchange of Data

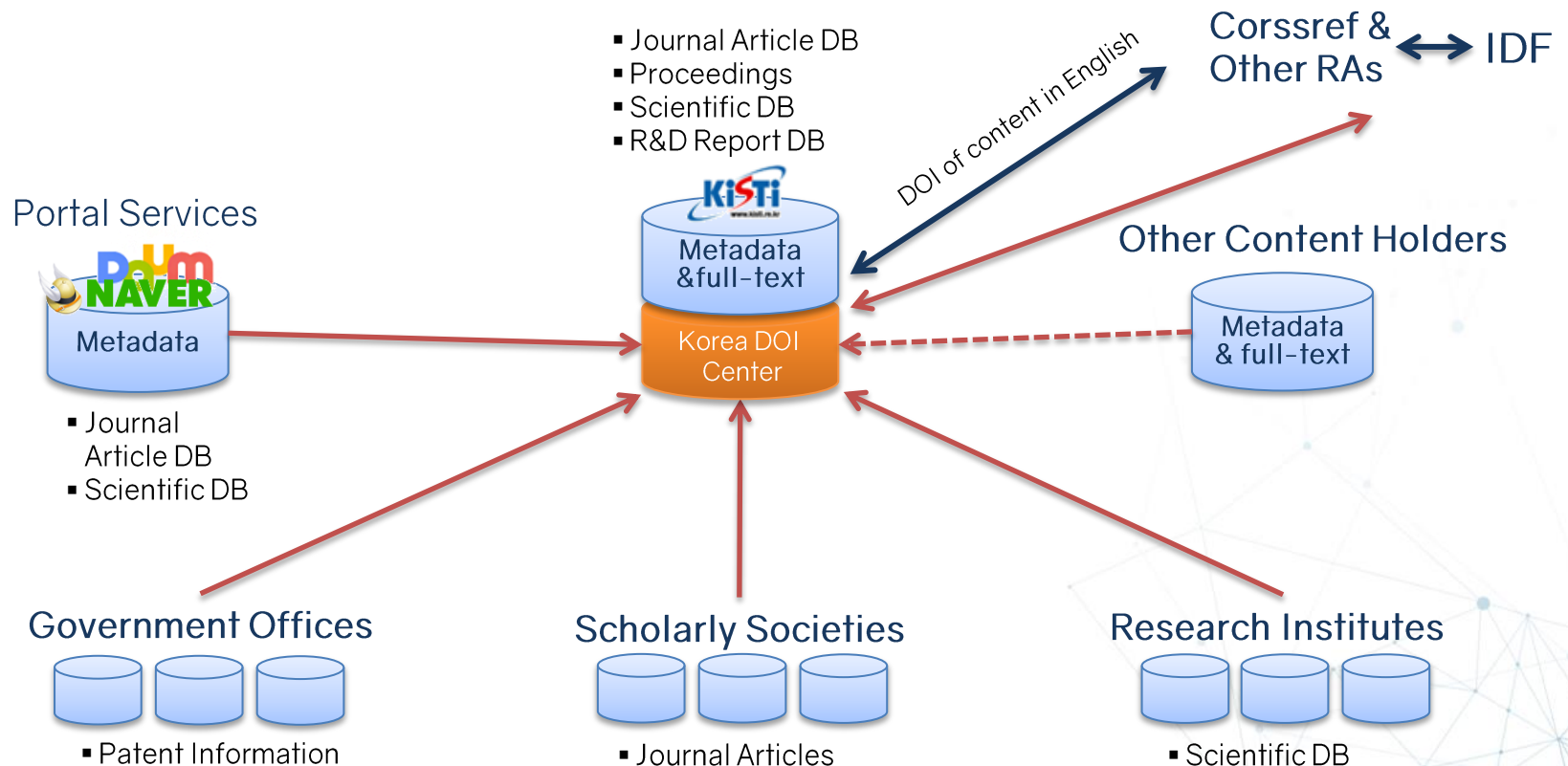


# 3. Korea DOI Center : Action Plan

# Korea DOI Center

## Introduction on Growth stage (~2016)

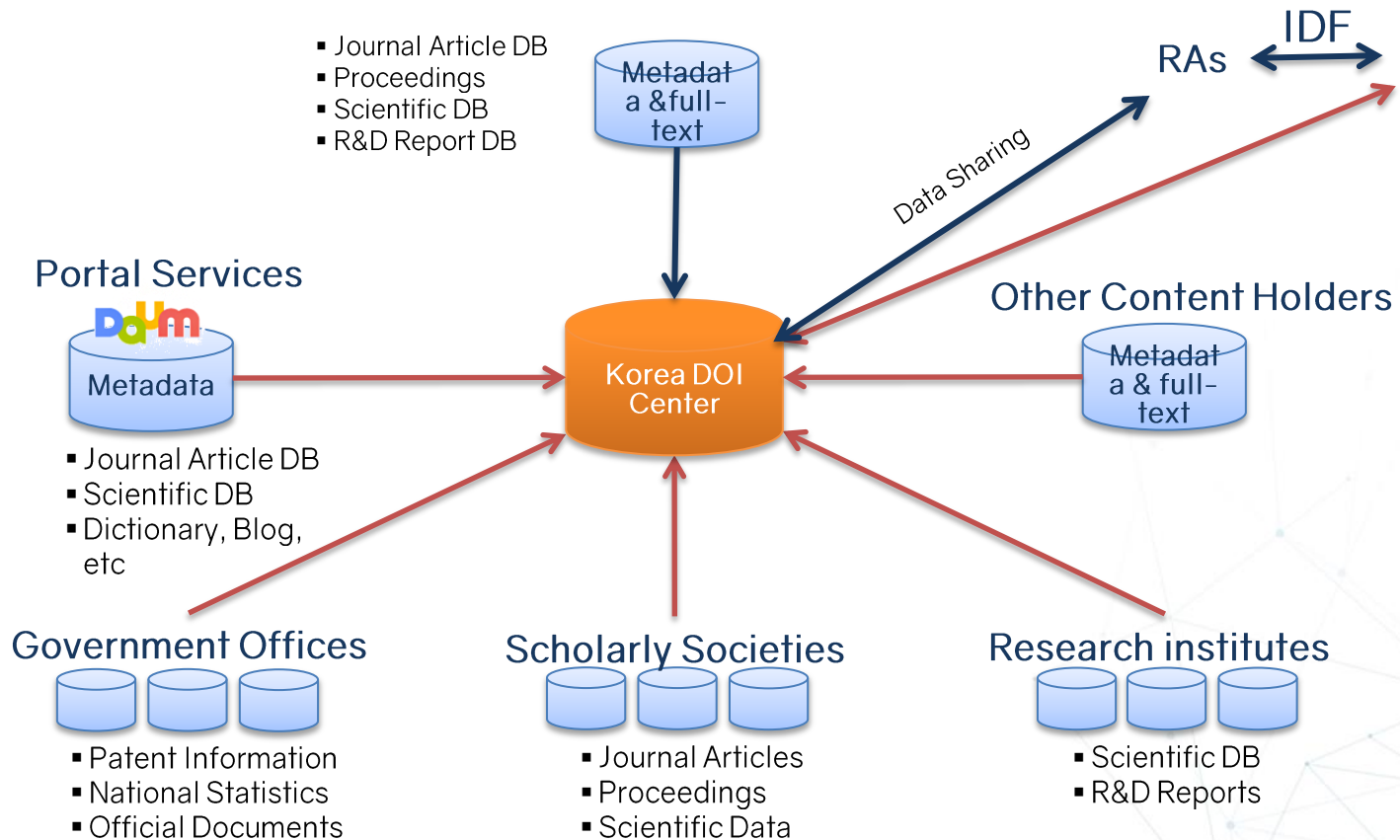
- In 2015, KISTI planned to be a DOI Registration Agency to promote global accessibility to Korean research content.
- KISTI was designated as DOI RA since January, 1, 2016
- In 2016, KISTI deployed DOI handle system
- KISTI is developing DOI registration and management system, and apply DOIs to information resources held by KISTI and other public institution in 2016.



# Korea DOI Center

Maturity Stage (~2017)

- Expanding DOI services for citable public information as well as scientific data.
- Promotion data sharing and collaborations with other Ras.
- Encouraging other content holders participate in Korea DOI Center

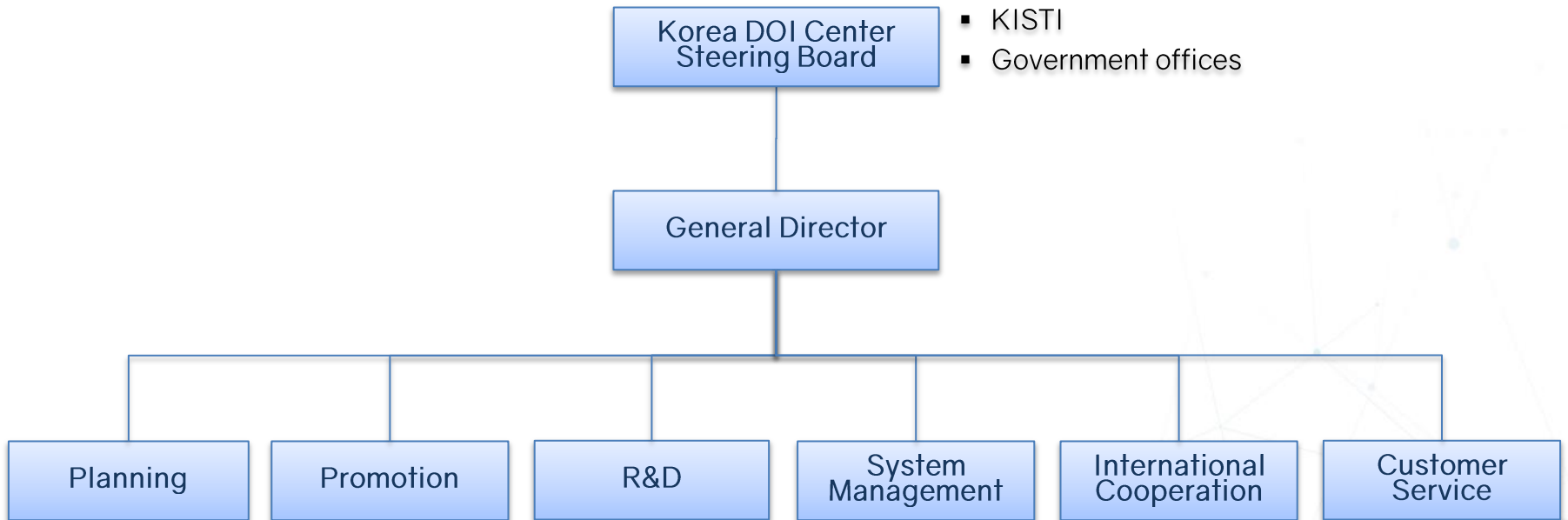




# Korea DOI Center

## DOI Governance

- Collaboration with Organizations Concerned
- Organize Korea DOI Center's governance structure
- Make a regulation on operating Korea DOI Center : Membership, principle, etc.
- Collaboration with content right holders and institutions operating other standard identification systems
- Develop collaboration projects with DOI RAs



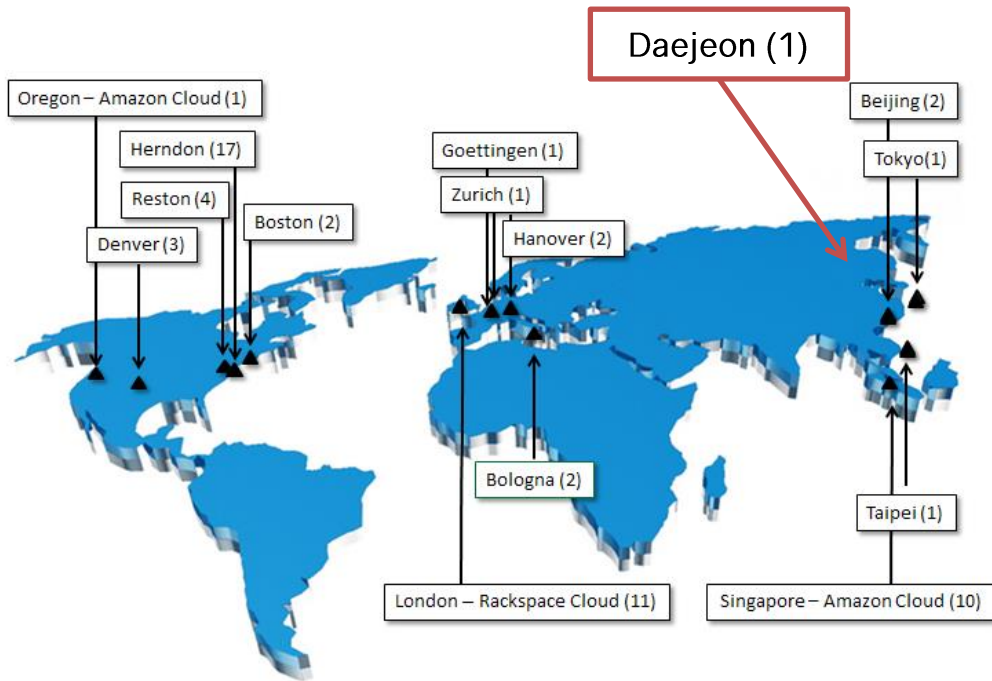
# A Innovative research project of KISTI

## Developing DOI System Infrastructure

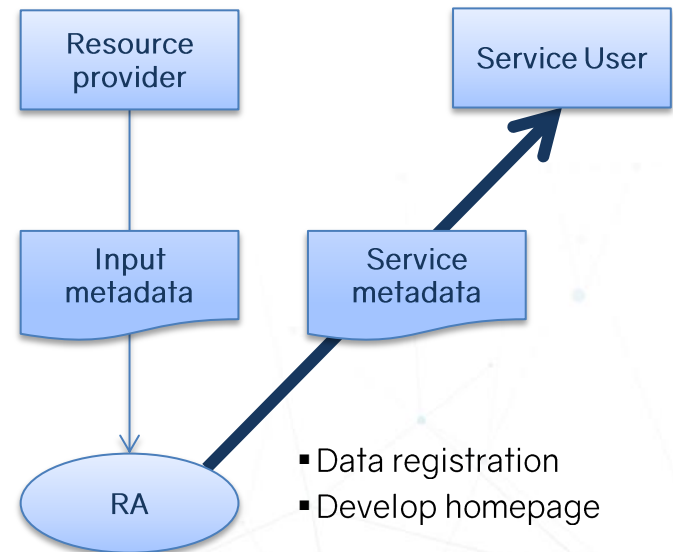
Deployed DOI handle System

Developing DOI registration system

Developing Korea DOI center homepage



[Handle.Net infra. For DOI name resolution]



[Metadata flow on DOI RA network]

# A innovative research project of KISTI

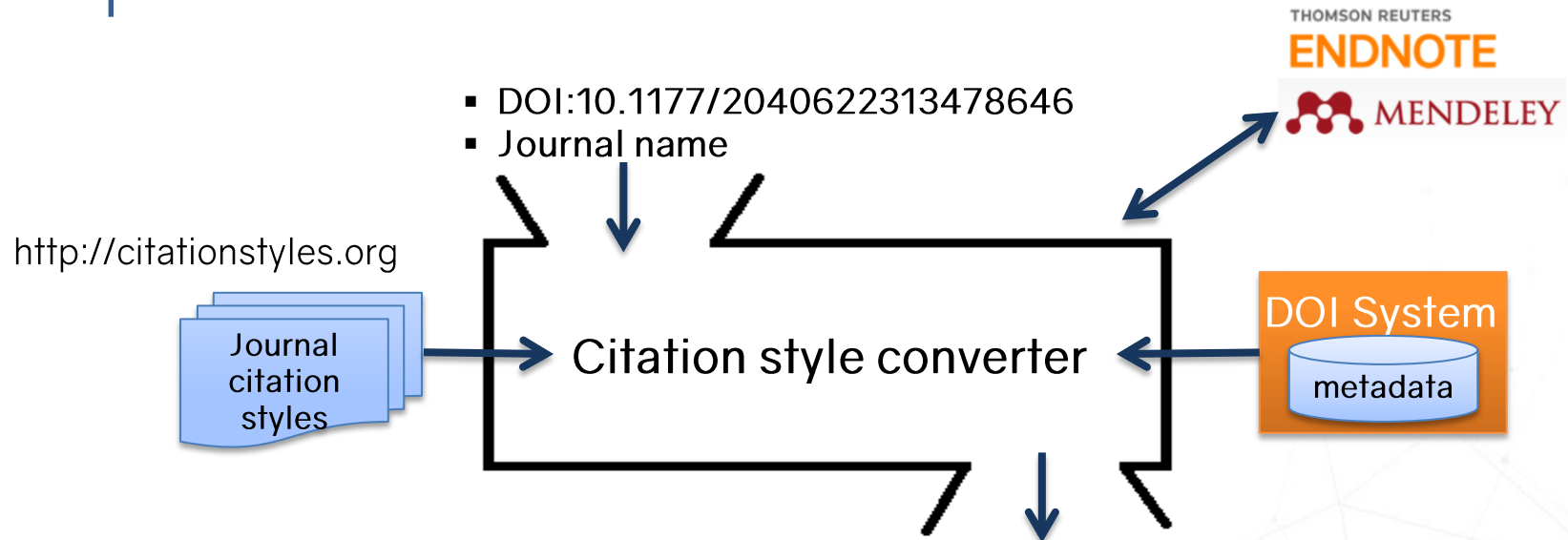
## DOI Registration service

Registration of KISTI's S&T information resources

- Scholarly articles, R&D Report, Idea
- Reference standard (KRIS), Material property(KRICT), Korean species (NIBR), etc

Developing registration metadata

Developing citation style converter



Trivedi PJ, Hirschfield GM. Treatment of autoimmune liver disease: current and future therapeutic options [Internet]. Therapeutic Advances in Chronic Disease 2013;4(3):119–141. Available from: <http://dx.doi.org/10.1177/2040622313478646>

Concept diagram on DOI citation style converter

# A innovative research project of KISTI

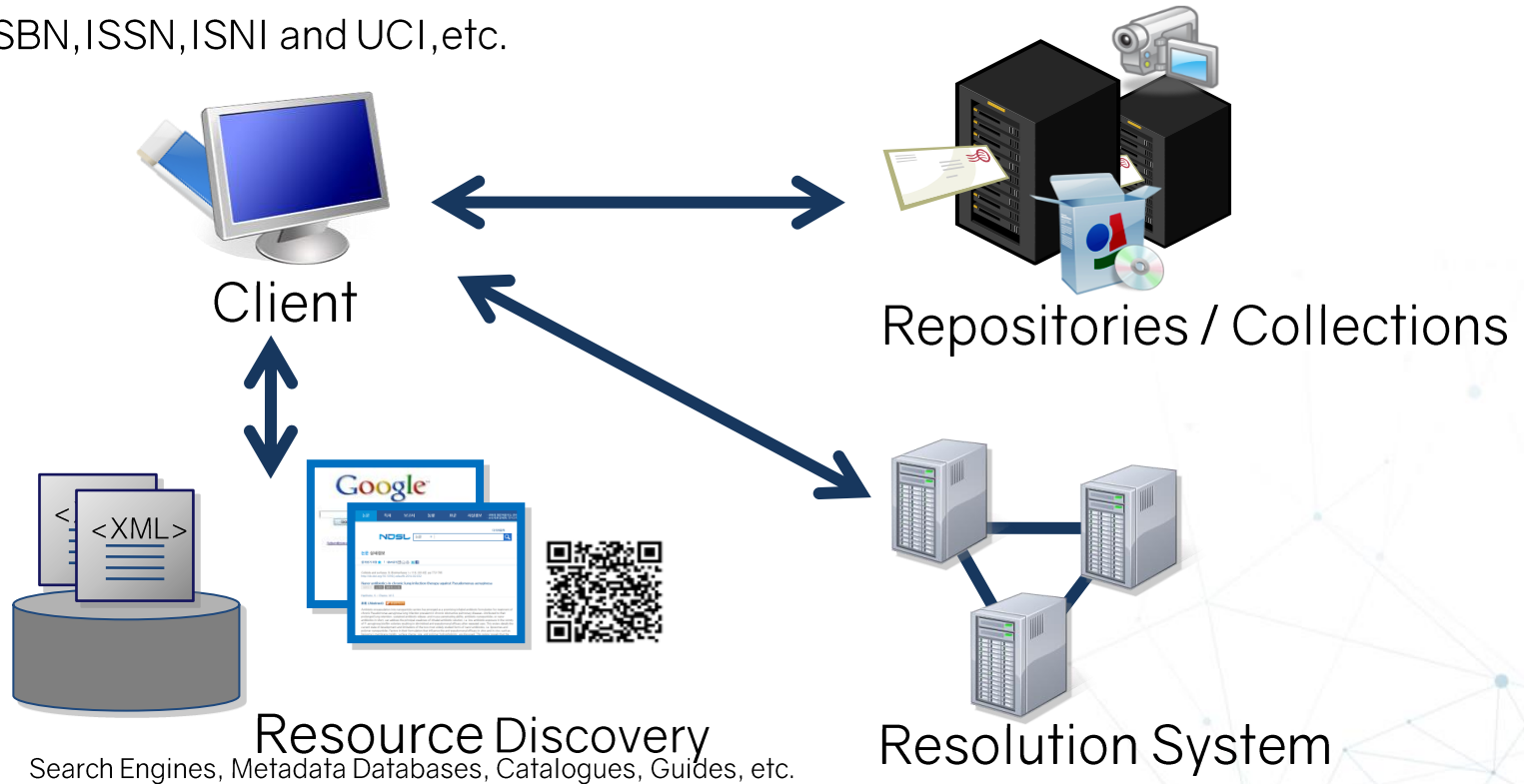
## Long term planning

Writing a Korea DOI Center's long term roadmap

Writing a planning report to take a budget from government

Developing services that convergence with current information systems and standard identification systems

-ISBN,ISSN,ISNI and UCI,etc.



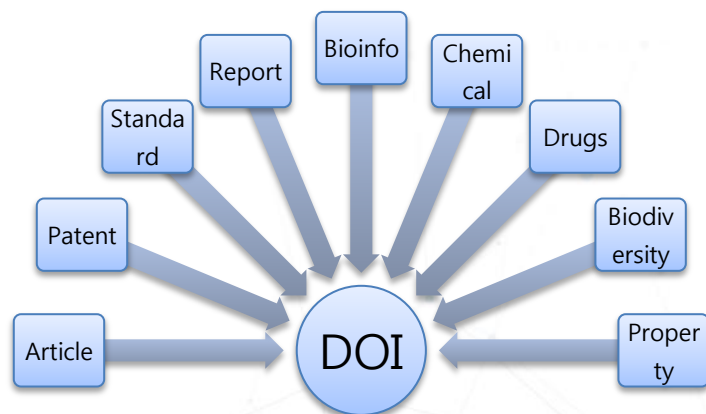
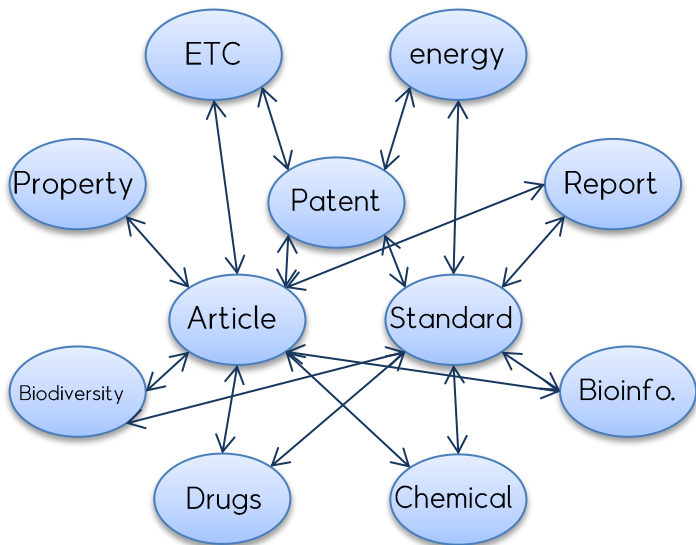
# Summary





# Summary

1. DOI will be the fundamental infrastructure for interoperability of information systems in Korea.
2. KISTI became the 10<sup>th</sup> DOI Registration Agency to promote global dissemination of Korean research content
3. KISTI contributes to the expansion and promotion of DOI as a regional RA.





**THANK YOU!**