Case Study - RDA National PID Strategies KOREA (KISTI)

Title	Case Study: KISTI
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Features of National PID Approach and/or Strategy

Lead organisation(s)
- KISTI is one of the DOI registration agencies (Korea DOI Center (https://www.doi.or.kr))
- KISTI is one of the designated managing institutions of Korean R&D outputs by Korean law (Research papers and articles)

Scope
- KISTI broadly collect, consolidate research articles, patents, research data, trend information, etc. and provide them to Korean academic and research institutes, corporates.
- KISTI DOI RA is one of functionality explained above and focuses on Korean intellectual properties (Research articles, patents, Research data, etc.)
- KISTI examines and improves Korean R&D outputs (metadata and fulltext). Those activities include issuing domestic unique id and author/institution disambiguation.

Drivers
- KISTI wants to curate scientific information including Korean R&D outputs of higher state of identification for better curation, tracking research impact, analysing research outcomes.
- DOI RA is a strategic infrastructure for KISTI to curate research outputs and intellectual properties. KISTI support Korean societies to stimulate better visibilities of their journal articles around the world.

Strategy development
- 2008~current: Designated as Korean R&D outputs managing institution (research papers and articles) by law.

- Early 2010~current: Internal identifier issuing and machine learning based identification on authors and their institutions
- 2016~current: Working as a DOI registration agency from 2016. Expanding persistent identifier collaboration with various RAs (ISNI RAs in Korea, ORCID and DOI)
- 2022: Experimental research project on comprehensive identifier database development. This project aims to develop testbed database of various identifiers (content, author, data, etc.). Target identifiers are elements appeared in KISTI's remit Korean research articles.

Key features
- KISTI's mission is to curate collect, consolidate, and provide scientific information to Korean researchers and institutions. It includes but is not limited to.
  - Curating Korean R&D outputs. Curate them higher state of identification for better curation, tracking research impact, analysing research outcomes.
  - DOI RA management. Issuing DOIs to Korean research outputs, Intellectual properties, research data
  - Support Korean societies to stimulate better visibilities of their journal articles around the world.
  - Collaborate for better curation (identification and interlinking) with domestic and global scientific information management institutions, publishers and identifier managing agencies.

Key infrastructure
List and describe the key infrastructure (platforms, systems, services) that will activate this national PID approach and/or strategy

Name of infrastructure	Key purpose	List of integrated PIDs
Korea DOI Center	Issuing DOIs to Korean research outputs, Intellectual properties, research data	DOI
KISTI's experimental comprehensive identifier testbed (in progress)	Interlinking (literature, author, data) elements with identifiers in Korean scholarly articles.	DOI, ISNI, ORCID, ROAR, WoS and SCOPUS author ID, Korean national author ID

PIDs
List which functions and PIDs are identified in the strategy e.g., identification of research grants is a function and the PID recommended in the PID approach and/or strategy is CrossRef DOI

Function	PID type	Recommended or required?

Korean R&D outputs management	DOI (literature and data), Korean research funding ID, Korean national research ID	
Issuing DOIs to Korean research outputs, Intellectual properties, research data	DOI, ISNI, ORCID, ROR, WoS and SCOPUS author ID, Korean national author ID	This project is in progress. So, its usefulness, value, sustainability should be evaluated.

Impact and monitoring
- KISTI's curation activities are reported and monitored to Korean ministry of science and technology.
- KISTI plans new research projects every 3 years in all divisions. It affects even essential infrastructure works (e.g., DOI RA management)
  - KISTI's current key concern is to identify accurately literature, authors, institutions, references and interlink them well. In this context, one of DOI RA's role is to track impact of Korean research outputs. (We named it as "Comprehensive interlinking identifiers)

Links
None.

Additional
None.

Fin.