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Current status and recent progress of open access in Korea

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Korea Institute of Science and Technology Information

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COAR Confederation of
Open Access Repositories

COAR
ASIA **OA** 2021
MEETING

Innovation, Growth and Sustainability of Open Scholarship in Asia

25 - 27 October 2021 | SGT 13:00 - 16:30

Current Status and Recent Progress of Open Access in Korea

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Contents

- Overview of Open Access in Korea
- Recent Progress of Open Access in Korea
- KISTI's year-round Open Access Activities

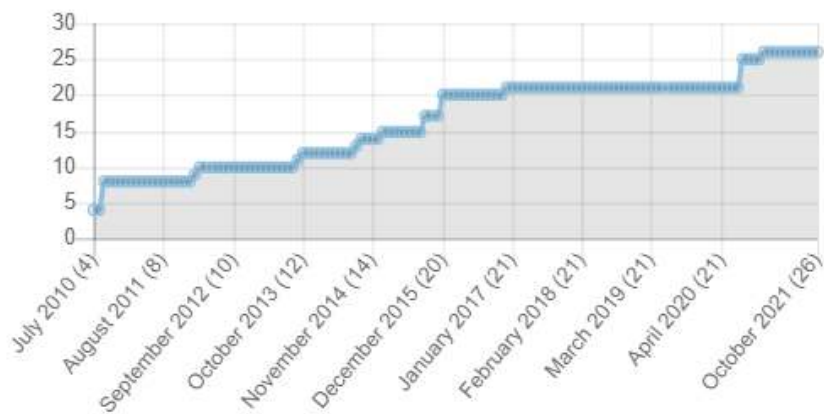
Overview of Open Access in Korea (1/2)

- 27 journals are registered at Sherpa/Romeo

Korea, Democratic People's Republic of (1)
Korea, Republic of (26)

Sherpa Romeo

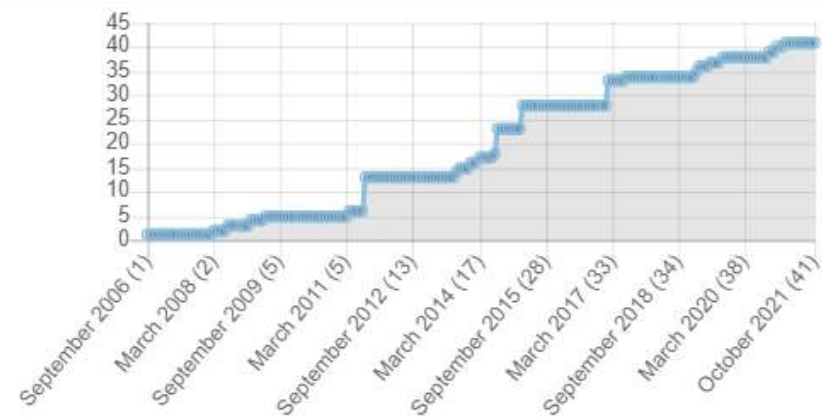
Growth of Publications in Romeo



- 41 IRs are registered at OpenDOAR
(of the total 5753 IRs in the world, 0.7%)

OpenDOAR

Growth of OpenDOAR



Overview of Open Access in Korea (2/2)

- Only one organization is registered at ROARMAP



- [Countries \(UN Geoscheme\)](#) (29)
 - [Asia](#) (29)
 - [Eastern Asia](#) (29)
 - [China](#) (4)
 - [China, Hong Kong Special Administrative Region](#) (4)
 - [Japan](#) (19)
 - [Republic of Korea](#) (1)
 - [Taiwan](#) (1)

- 143 OA journals are registered to DOAJ (of the total 17,043 journals, 0.55%)



[2021]

[2020]



China (96)
Australia (96)
Portugal (94)
Korea, Republic of (94)
South Africa (92)
Cuba (82)
Malaysia (67)

17,043 indexed journals

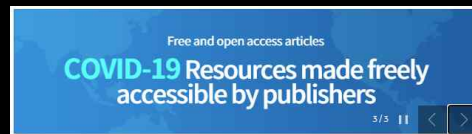
PUBLISHERS' COUNTRIES

<input type="checkbox"/> Canada (193)
<input type="checkbox"/> Mexico (185)
<input type="checkbox"/> China (156)
<input type="checkbox"/> Portugal (147)
<input type="checkbox"/> Korea, Republic of (143)
<input type="checkbox"/> Chile (141)
<input type="checkbox"/> Croatia (137)
<input type="checkbox"/> Czechia (136)

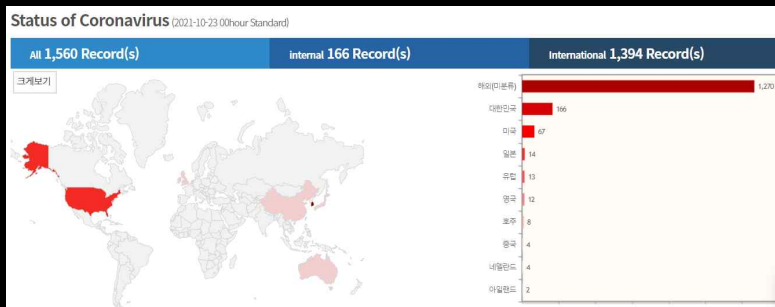
Recent Progress of Open Access in Korea

- Response to COVID-19
- Spreading awareness of Open Access
- Open Access Transformative Agreement with Elsevier
- Developing Open Access Maturity Model (in progress)

Response to COVID-19 (1/2)



- COVID-19 related scholarly information and data is provided by ScienceON(scienceon.kisti.re.kr), AccessON(accesson.kisti.re.kr) and DataON(dataon.kisti.re.kr).



Overseas/domestic papers

News/reports

Pre-print, data archive

R&D information



Response to COVID-19 (2/2)

- A joint letter to publishers and vendors in the KCUE·KESLI·KMLA consortium (August.25.2021)
 - To delay or minimize any planned price increases until all over the world calms
 - To consider flexible renewal periods and extended payment due dates
 - To sanction remote access and develop alternative methods of authentication
 - To temporarily waive restrictions on subscriber services, including the number of concurrent users, inter-library loans, and photocopying
 - To actively engage in the transition toward open access



Spreading awareness of Open Access (1/2)



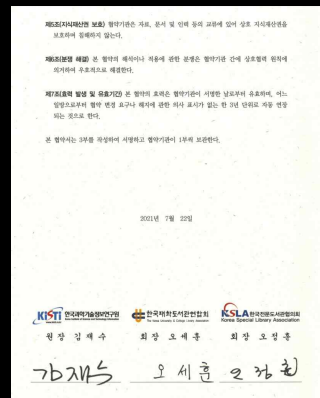
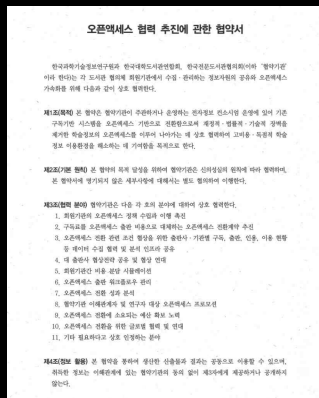
National Open Access Policy Forum 2021 (June.17.2021)

- National Open Access Policy Forum held by NRF, KOFST and KISTI
 - First national-level discussion on national policy directions of Open Access
 - Participants from governments, national assembly, institutions, universities, libraries, academic societies, and researchers



Spreading awareness of Open Access (2/2)

- Agreement on Propel of Open Access Cooperation between KISTI, KUCLA, and KSLA
 - To facilitate the establishment and implementation of Open Access policies of member institutions
 - To collaborate on data collection for OA transformative agreements promotion and negotiation
 - To share negotiation strategies and negotiate in cooperation against publishers



Open Access Transformative Agreement (1/4)

Borrego et al. (2021)

<https://vimeo.com/548776202>

Case study of OA transformative Agreements including NST-Elsevier

- Transformative Agreement
 - **Definition** : to convert subscription agreements with publishers to Open Access publishing
 - **Principles**
 - **Cost** : paying the subscription fee as a publishing fee
 - **Copyright** : Authors retain copyright and publish articles under Creative Commons license
 - **Transparent** : transparent disclosure of contract terms, however often not disclosed
 - **Temporary and transitional** : a transitional path that converts subscription fees into publishing fees, aims for a state where subscription fee payment does not exist

Open Access Transformative Agreement (2/4)

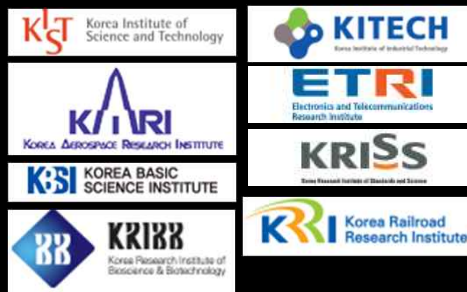
<https://vimeo.com/548776202>

Case study of OA transformative Agreements including NST-Elsevier

- NST-Elsevier Open Access Transformative Agreement (2021-2023)



25 member research institutes



⋮

- **NST subscription status** : 23 ScienceDirect Consortia (3 subject collections), 1 individual subscription, 1 pay-as-you-go
- **Total subscription fee** : US\$ 3.4 million (4 billion WON), in 2020
- **Annual total number of articles** (corresponding author) : around 1,000 articles (indexed in SCI, hybrid journals)
- **Elsevier hybrid OA journal publishing** : annual around 20 articles, average APC US\$ 3.030, in 2020

Open Access Transformative Agreement (3/4)

<https://vimeo.com/548776202>

Case study of OA transformative Agreements including NST-Elsevier

- NST-Elsevier Open Access Transformative Agreement (cont)
 - RAP (Read and Publish) : bundling reading fee and publishing fee
 - Reading conditions : all 25 member institutes can access SD Freedom collection (2,260titles)
 - Publishing conditions : securing 1,200 articles of OA publishing for 3 yrs, CC-BY or CC-BY-NC-ND
 - NST representative contract
 - Annual 3.5% increase
 - Holding Post-termination Access rights

Open Access Transformative Agreement (4/4)

<https://vimeo.com/548776202>

Case study of OA transformative Agreements including NST-Elsevier

- NST-Elsevier Open Access Transformative Agreement (2021-2023) (cont)

- Implication

- The first transformative agreement signed in Korea
- Securing a significant amount of OA publishing rights at the same level as the previous year's subscription fee increase, leveling up the access range

- limitation

- Purchasing power is dispersed by negotiating with joint purchasing consortium(KCUE/KESLI) at the same time
- Lack of negotiation strategies
- Difficulties in the process of distributing OA publishing tokens and setting the ratios of contributions

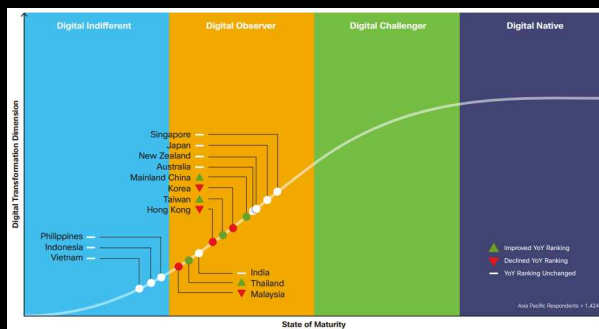
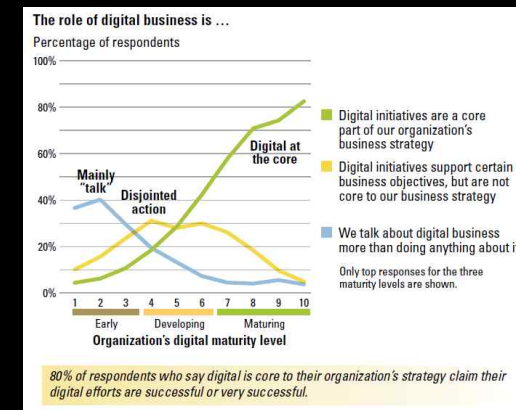
Developing Open Access Maturity Model (in progress)(1/2)

- Purpose
 - To develop a model for measuring and diagnosing the maturity level of open access in the scientific and technological community of Korea
 - to strategically apply the open access support system according to this model
- Review various maturity models
 - Cisco APAC SMB Digital Maturity Index
 - Digital maturity from MIT Sloan Management Review
 - Open Data Maturity from European Data Portal
 - ...

Developing Open Access Maturity Model (in progress)(2/2)

SMB Digital Maturity Index	STAGE 1 DIGITAL INDIFFERENT	STAGE 2 DIGITAL OBSERVER	STAGE 3 DIGITAL CHALLENGER	STAGE 4 DIGITAL NATIVE
Strategy and Organization	• Company is reactive and focused on efficiencies. No digital efforts exist or starting.	• Digital efforts in progress but tactical. Starting to create a digital plan.	• Company focused on becoming agile. A digital strategy exists, but focused on short-term.	• Holistic strategy to digitally innovate exists. Proactively seeking to transform the market, expand operations and drive CX.
Processes and Governance	• Majority of processes are manual.	• Many processes still not automated. Focused on addressing inefficiencies.	• All core processes are automated and productivity rates improving.	• Full process automation done; agile approach. Significant strides made in process transformation.
Technology	• Tactical investments. No cloud and spreadsheet centric.	• Some cloud resources being used. Very limited use of analytics. Focused on the use of reporting tools.	• There is a tech roadmap for digitalization. Company is using hybrid cloud approaches.	• Cloud-first and committed to using digital tech. Broad adoption of analytics.
People and Skills	• Lack of digital skills.	• Making tactical investments to acquire digital skills. Risk-averse leadership.	• Strategic investments in talent are being made, particularly digital skills.	• The right digital skills exist. Talent is a top priority and a competitive differentiator. Agile and adaptable culture.

Dimension	Metrics
Open Data Policy	Policy framework Governance of open data Open data implementation
Open Data Impact	Strategic awareness Political impact Social impact Environmental impact Economic impact
Open Data Portal	Portal features Portal usage Data provision Portal sustainability
Open Data Quality	Currency Monitoring and measures DCAT-AP compliance Deployment quality and linked data



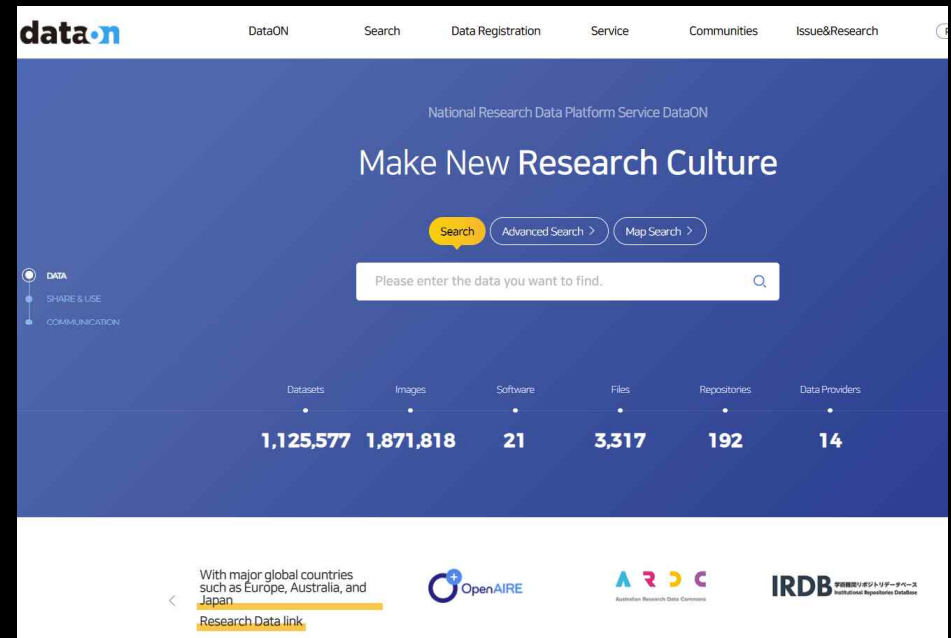
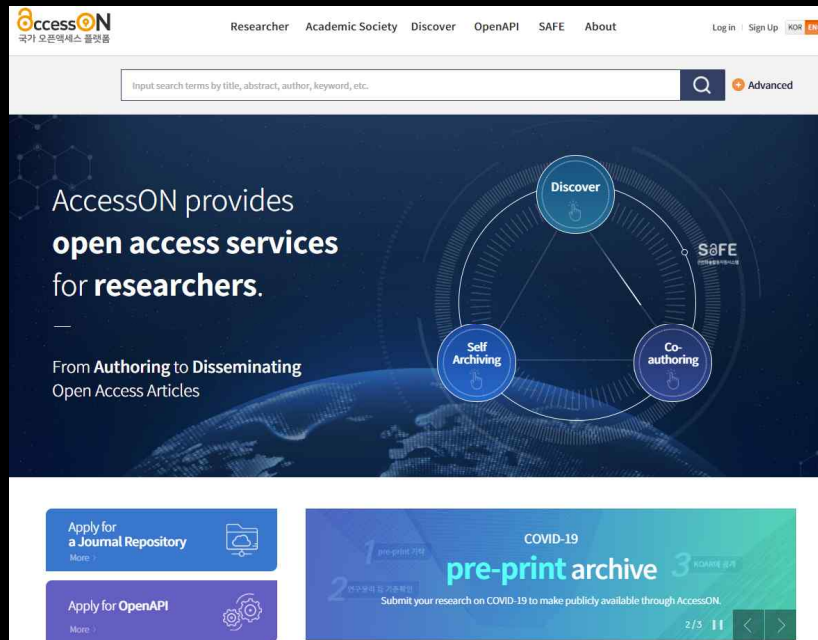
IDC-Cisco SMB Digital Maturity Index 2020

Open Data Maturity dimensions and dimension-specific metrics (OPEN DATA MATURITY REPORT 2020)

Achieving Digital Maturity (MIT SLOAN MANAGEMENT REVIEW)

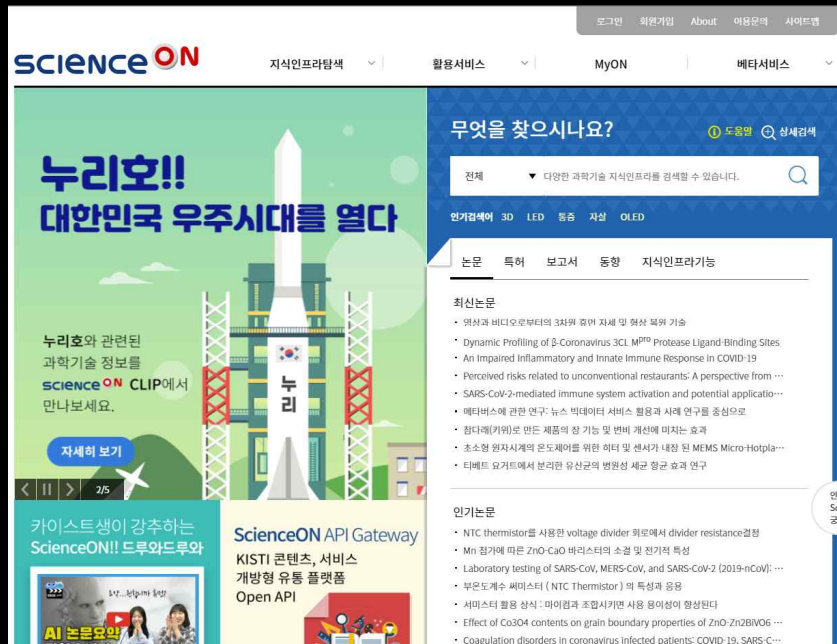
KISTI's year-round Open Access Activities (1/2)

- KOAR → AccessON (for scholarly papers)
- DataON (for research data)

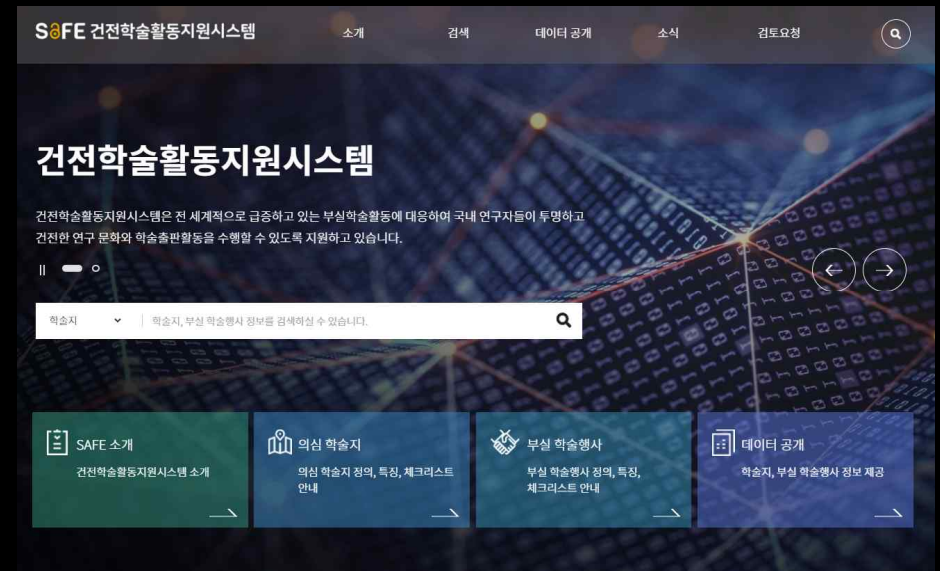


KISTI's year-round Open Access Activities (2/2)

- ScienceON
(providing converged service connecting KISTI's S&T knowledge infrastructure)



- SAFE
(for preventing predatory journals/conferences)



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Thank you!

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