The National Digital Library

: The Portal Site of the Digital Information Resource!

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THE NATIONAL LIBRARY OF KOREA

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2 Database Status Report of the National Library of Korea

3 Status Report of the Cyber National Digital Library

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1. Introduction

- The National Library of Korea (NLK)
  - The comprehensive depository of the nation's books and documents
  - To collect and preserve the intellectual cultural heritage of the nation and to pass on to the future generations
- The 21st Century, New Information Age
  - To connect the analogue resources and digital information based on the hybrid type paradigm
  - To include full text DB, national table of contents DB, article index and abstract DB, government collection DB, materials for the visually impaired DB, etc
  - Cyber National Digital Library currently in service
- Construction of the National Digital Library (NDL)
  - To collect, process, and preserve the digital information resources

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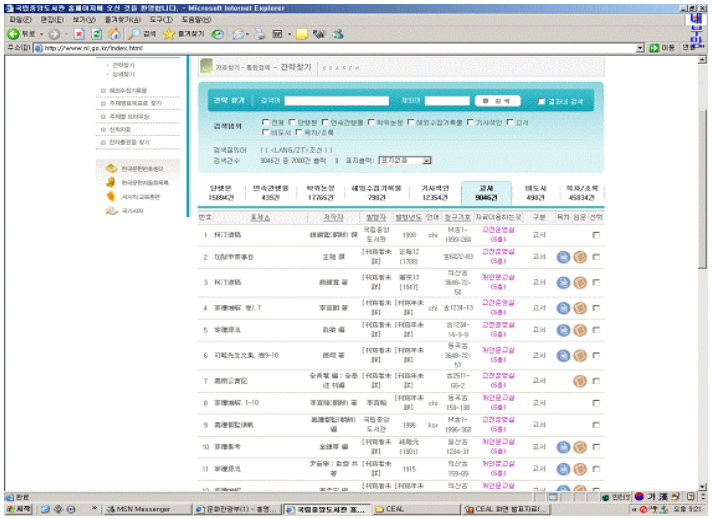
2.1 Full Text DB

Overview

- Digitize selected academic and informational materials of the National Library of Korea (NLK) to reduce the gaps among regions in terms of getting access to the digital materials by providing information fast



Collection

- Materials in NLK that were published 5 years ago
- Academic and informational materials

Coverage

- 1995 – continue

Collection Size

- 357,775 volumes, 100,451,259 pages

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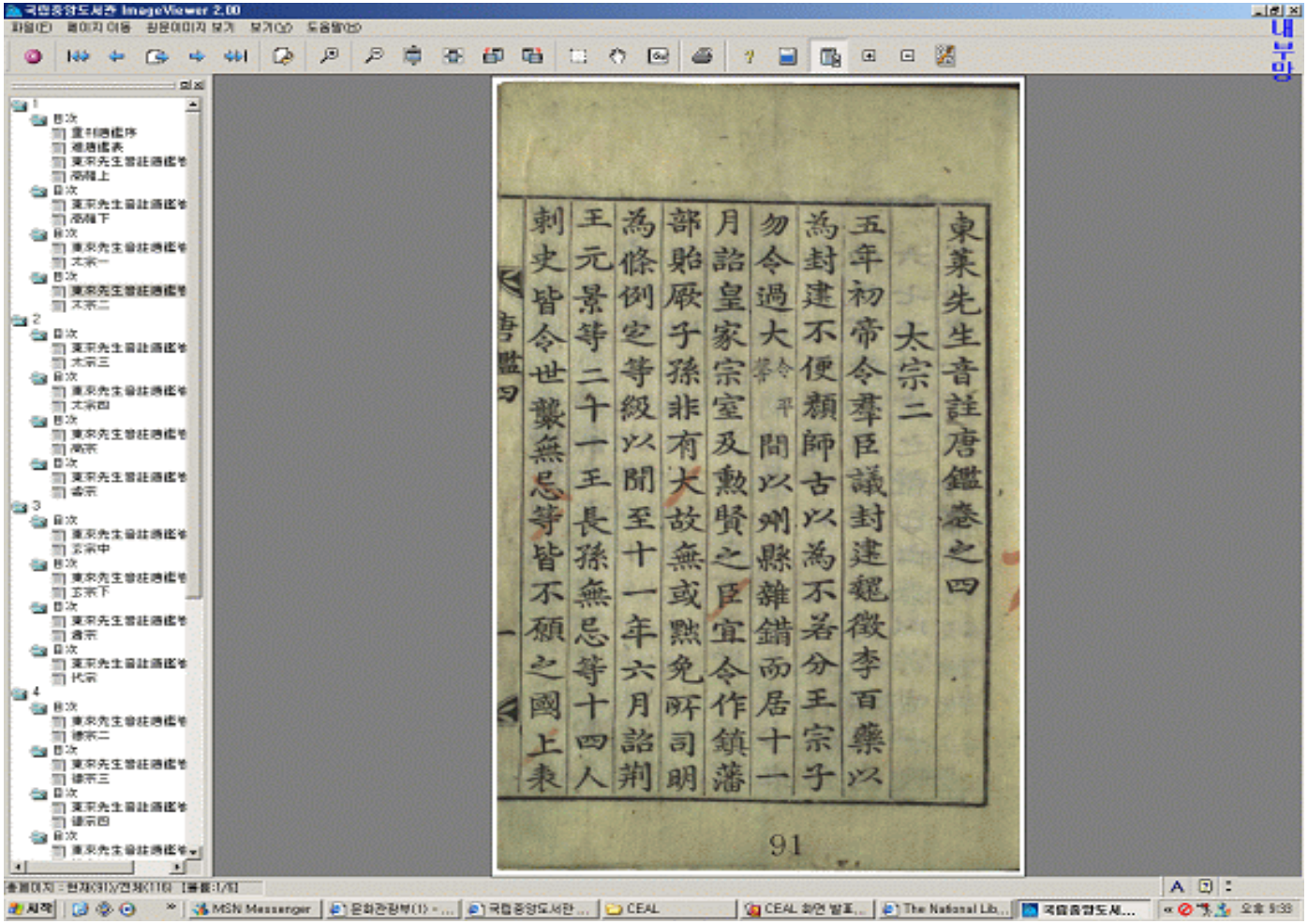
2.1 Full Text DB – Rare Books



- Rare Books
  - National Treasures (Gukbo, Bomul) and other rare books
  - Table of Contents in text format
  - Original texts in image
  - 92,993 volumes
  - 13,838,662 pages

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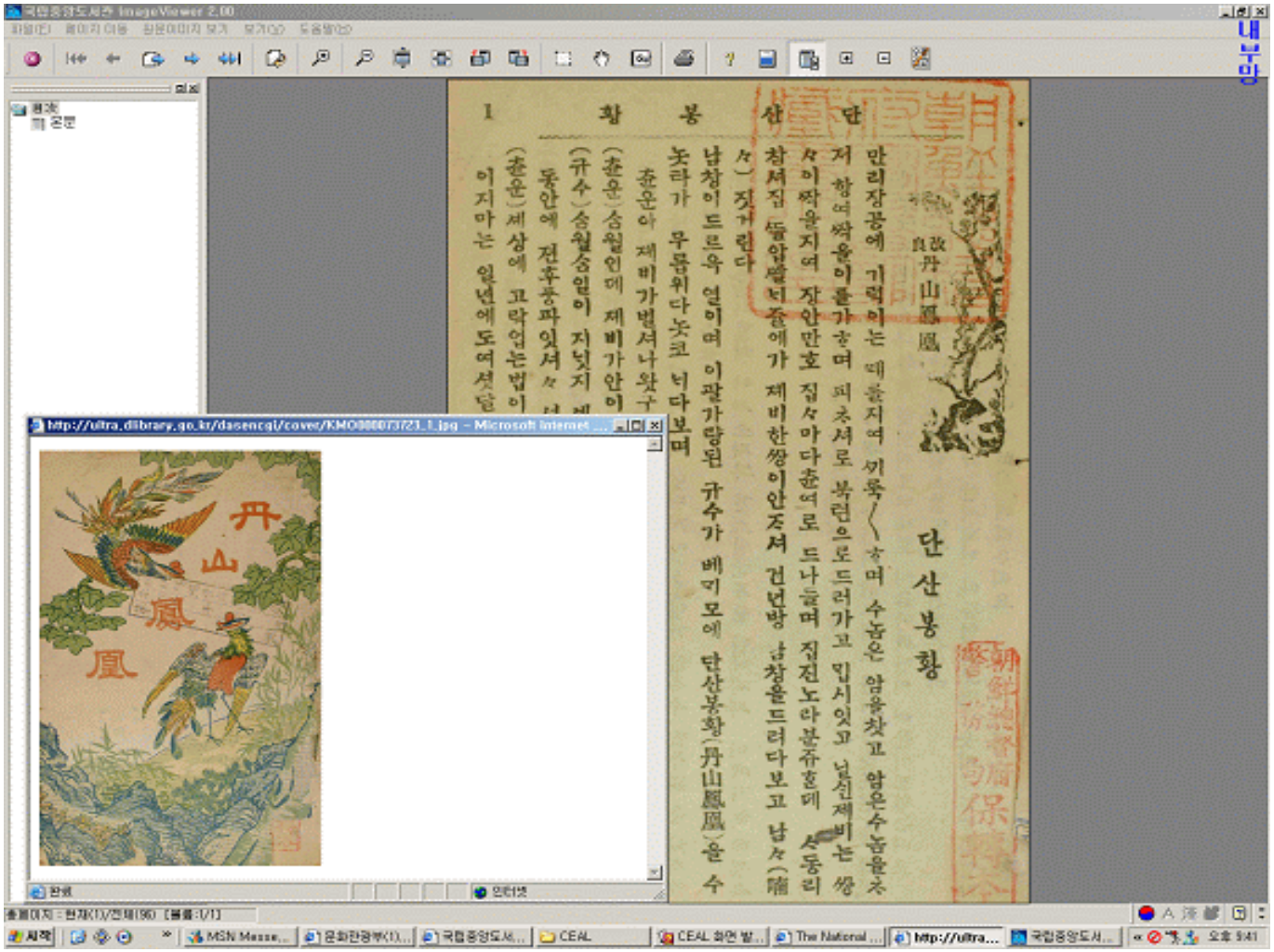
2.1 Full Text DB – Old Novels in Hangul



- Old Novels in Hangul
  - 1910 – 1930
  - Story Books written in Hangul
  - 915 volumes
  - 88,554 pages

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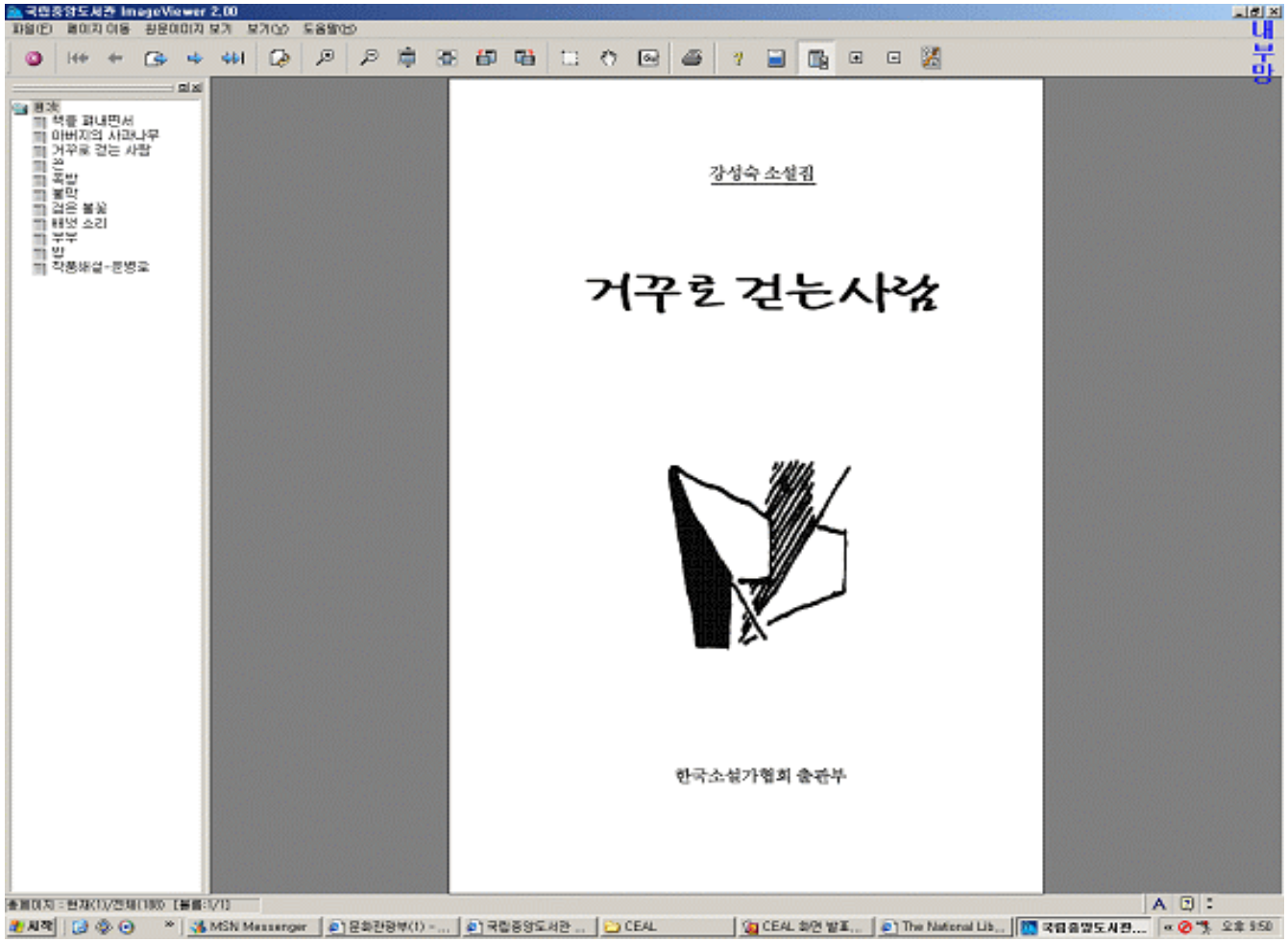
2.1 Full Text DB – Major Novels in New Literature Movement 100 Years



- Major Novels in New Literature Movement 100 Years
  - New Literature Movement 100 Years
  - Selected by Korean Novelists Association
  - All copyrights cleared
  - Table of contents in text
  - Original texts in image
  - 654 volumes
  - 203,873 pages

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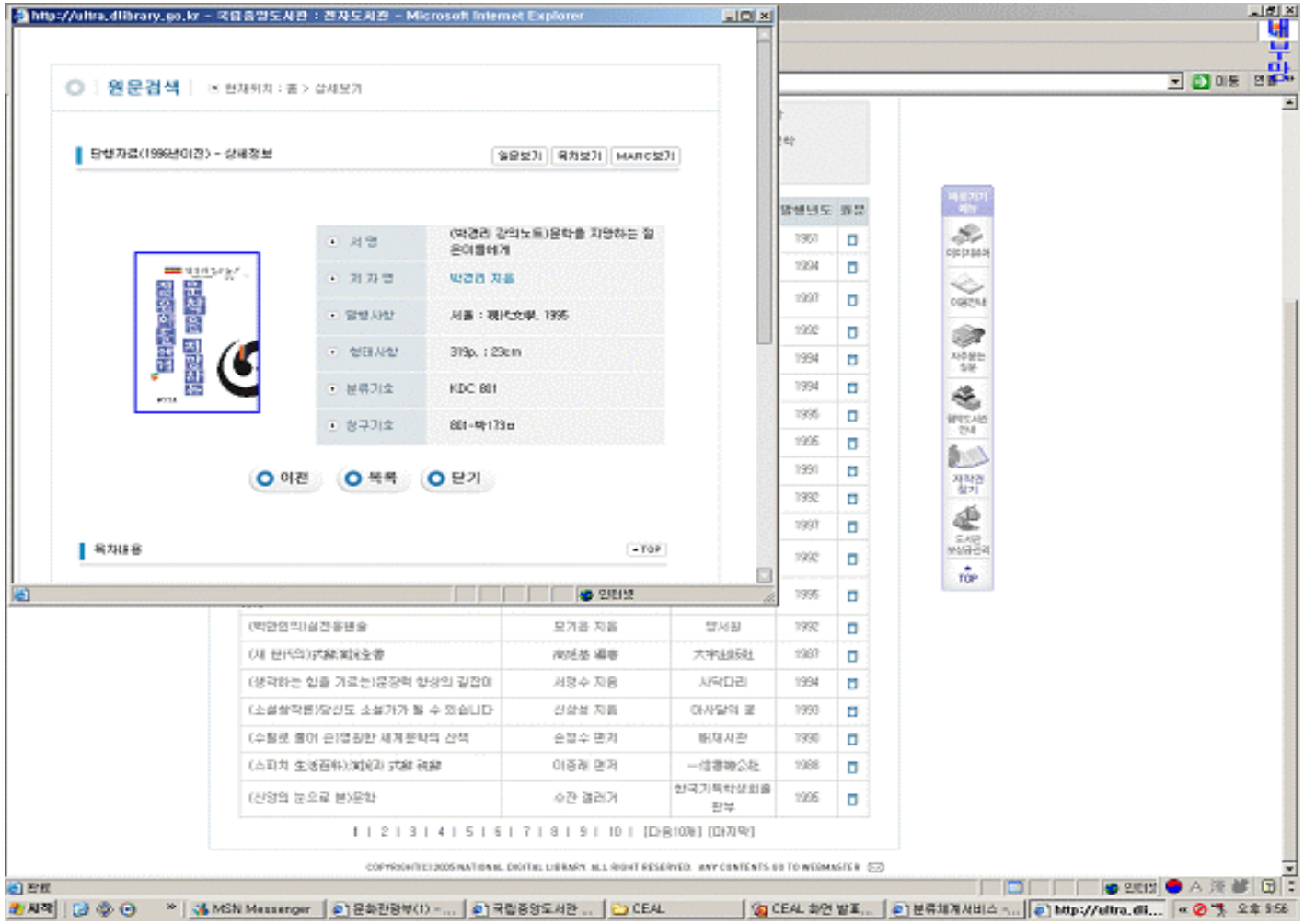
2.1 Full Text DB – Monographs



- Monographs
  - 1945-2001
  - Selective academic and informational materials
  - Table of contents in text
  - Original texts in image
  - 152,848 volumes
  - 48,648,689 pages

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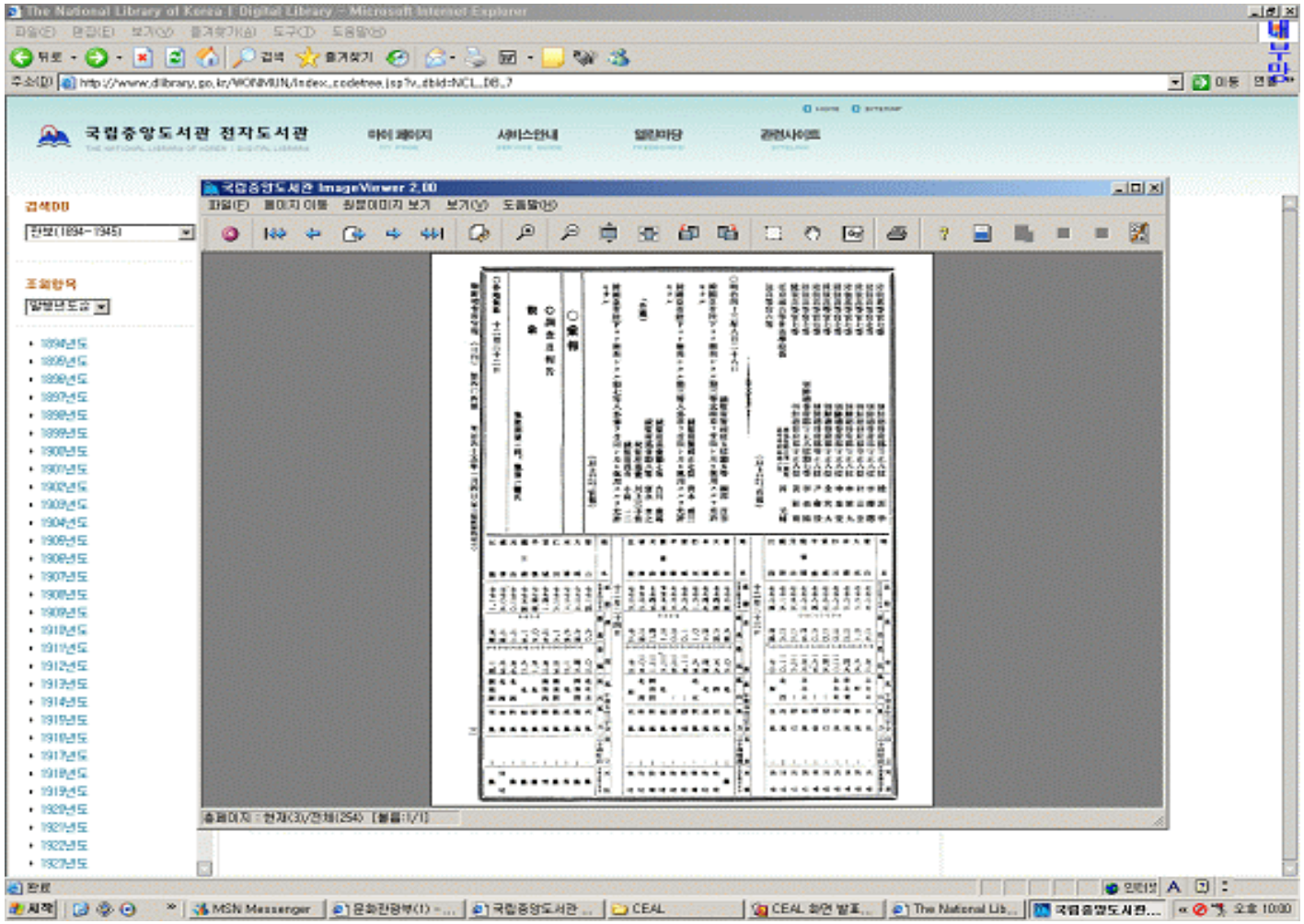
2.1 Full Text DB – Old Government Daily Report



- Old Government Daily Report
  - 1894-1945
  - Government reports or notices in text
  - Original texts in image
  - 164 sets
  - 147,133 pages

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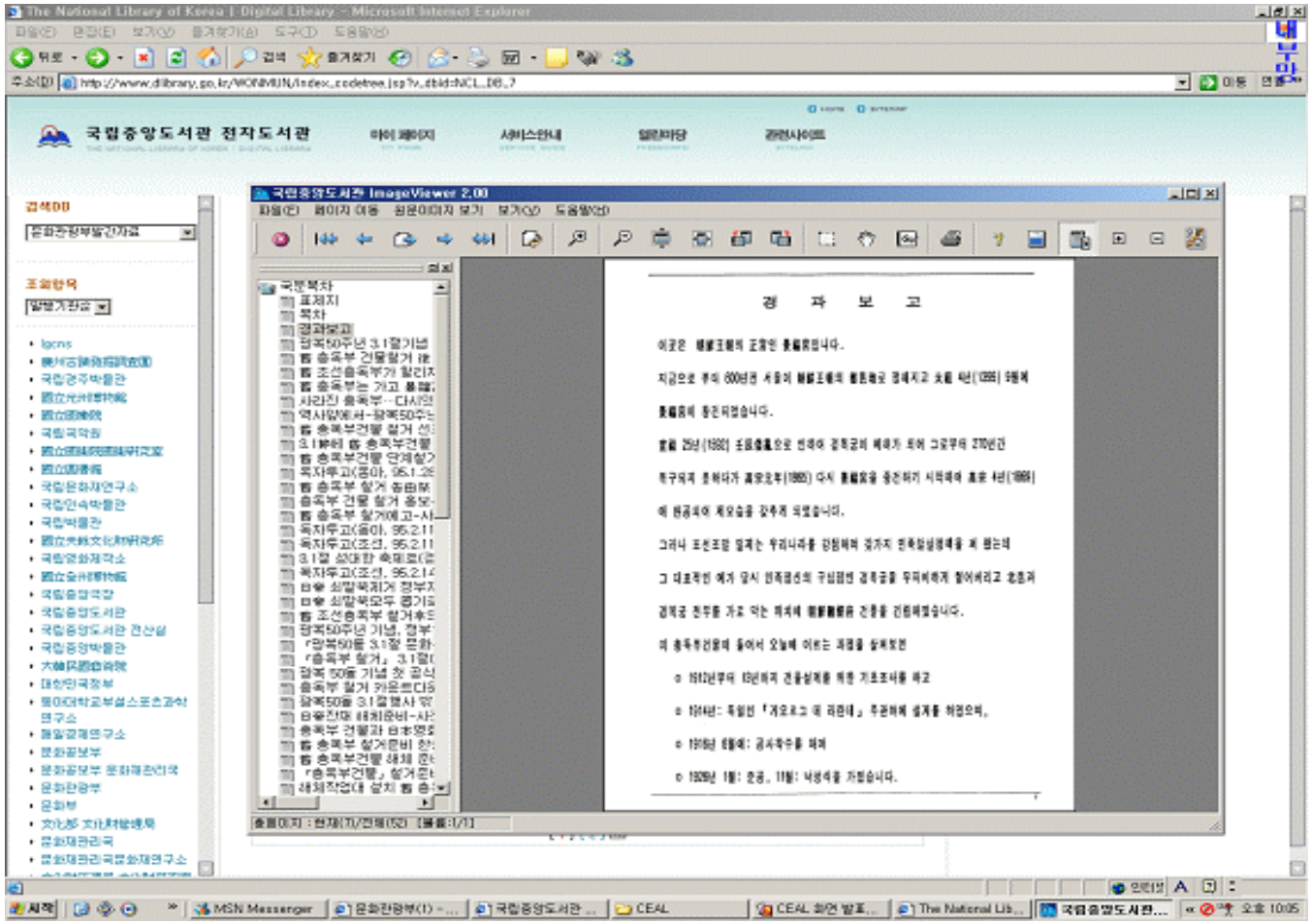
2.1 Full Text DB – Government Publication by Ministry of Culture and Tourism



- Government Publication by the Ministry of Culture and Tourism
  - Culture-related publications by the Ministry of Culture and Tourism and its sub-divisions
  - Table of contents in text
  - Original texts in image
  - 1,864 volumes
  - 636,951 pages

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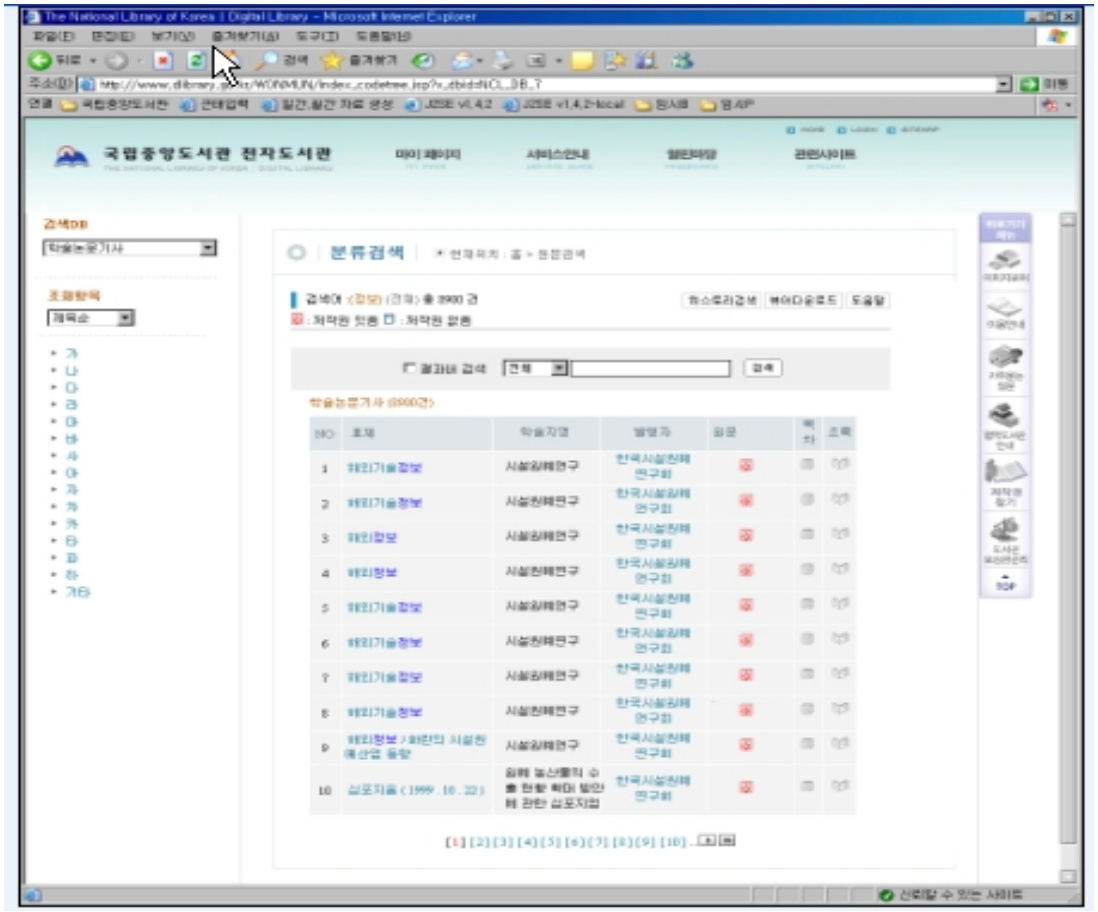
2.1 Full Text DB – Academic Journal Articles



- Academic Journal Articles
  - 1,700 academic journals published in Korea
  - Table of contents in text
  - Original texts in image
  - About 344,000 articles

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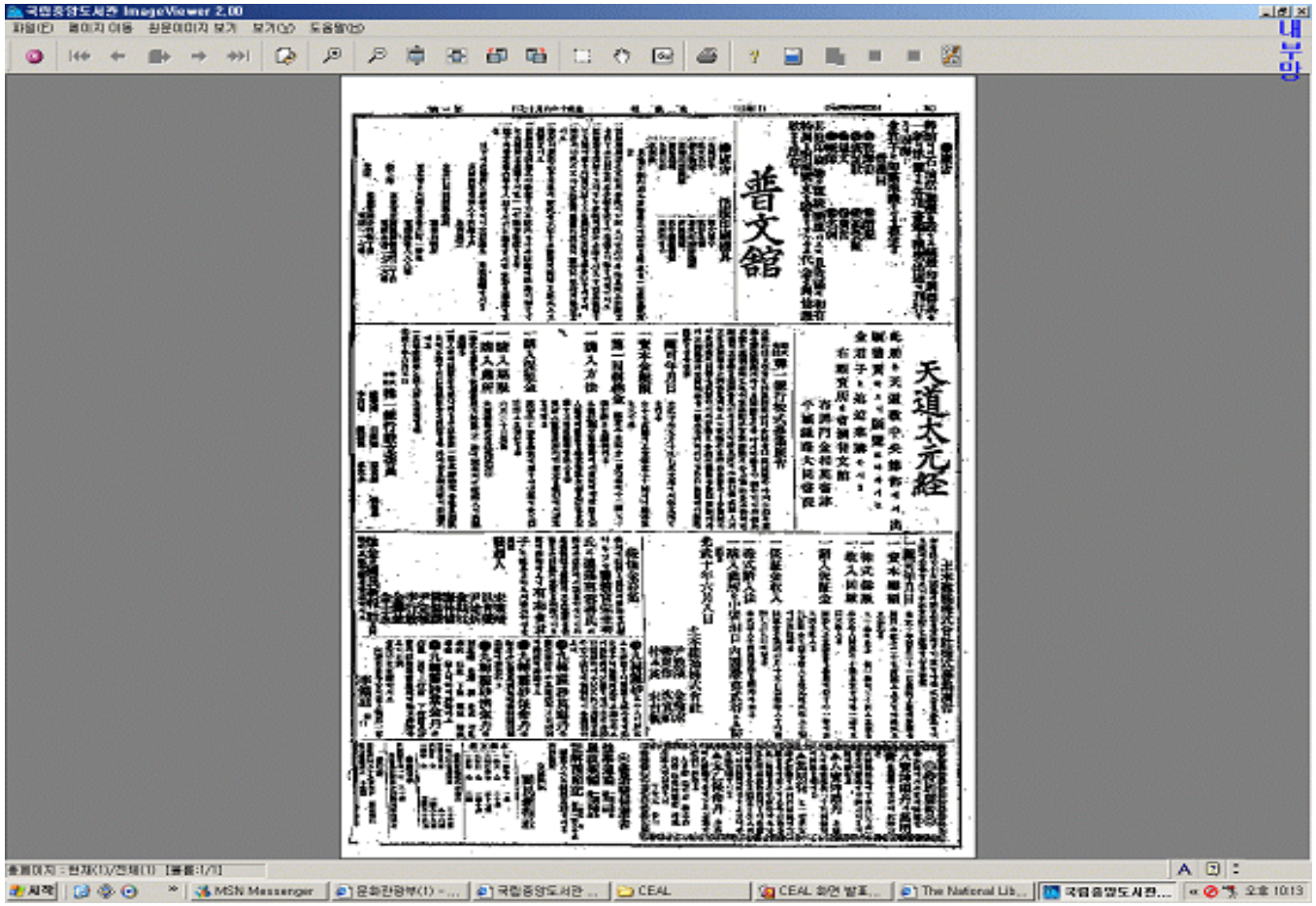
2.1 Full Text DB – Old Newspapers



- Old Newspapers
  - Pre-1945
  - Article titles in text
  - Full texts in image
  - Search newspaper by name, title, and date
  - 361 newspapers
  - 1,064,482 articles
  - 132,137 pages

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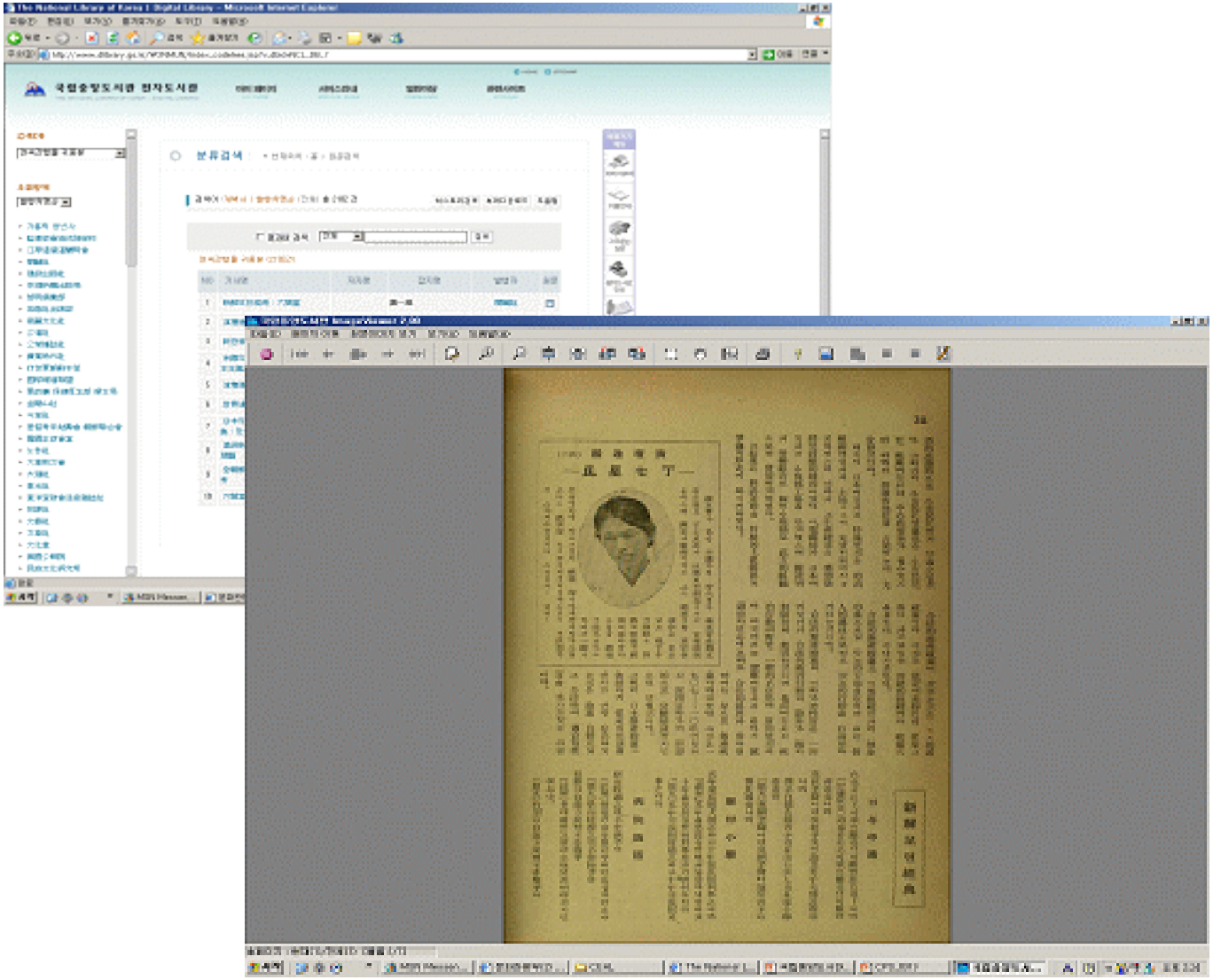
2.1 Full Text DB - Rare Periodicals



- Rare Periodicals

- Pre-1950
- Table of contents in text
- Full texts in image
- Search by title of article, author, title of periodicals, publisher
- 3,036 periodicals
- 179,000 items

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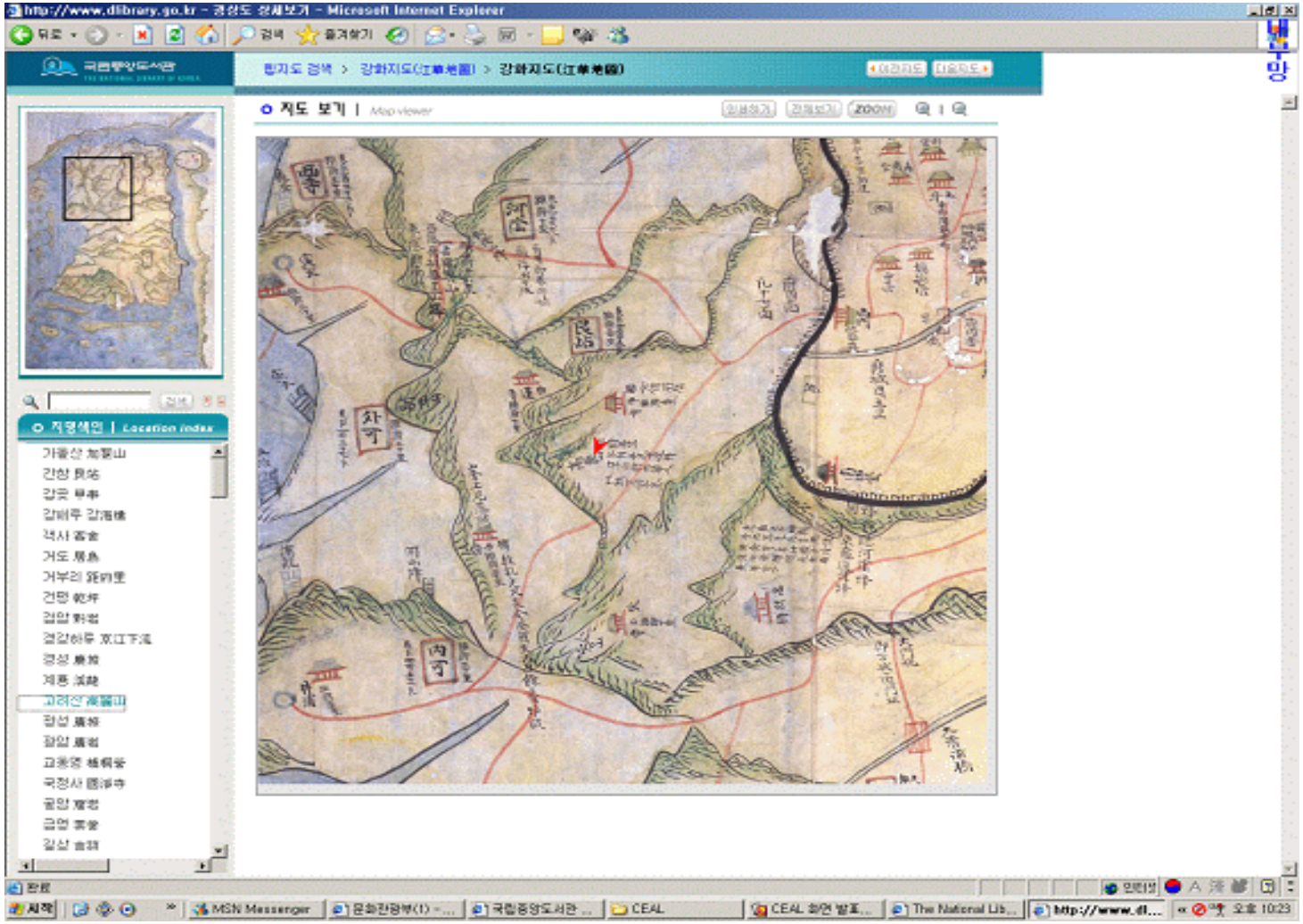
2.1 Full Text DB – Rare Maps



- Rare Maps
- 18th – 20th C
- 91 maps
- 3,331 images
- Linked to index of place names and location information for effective search

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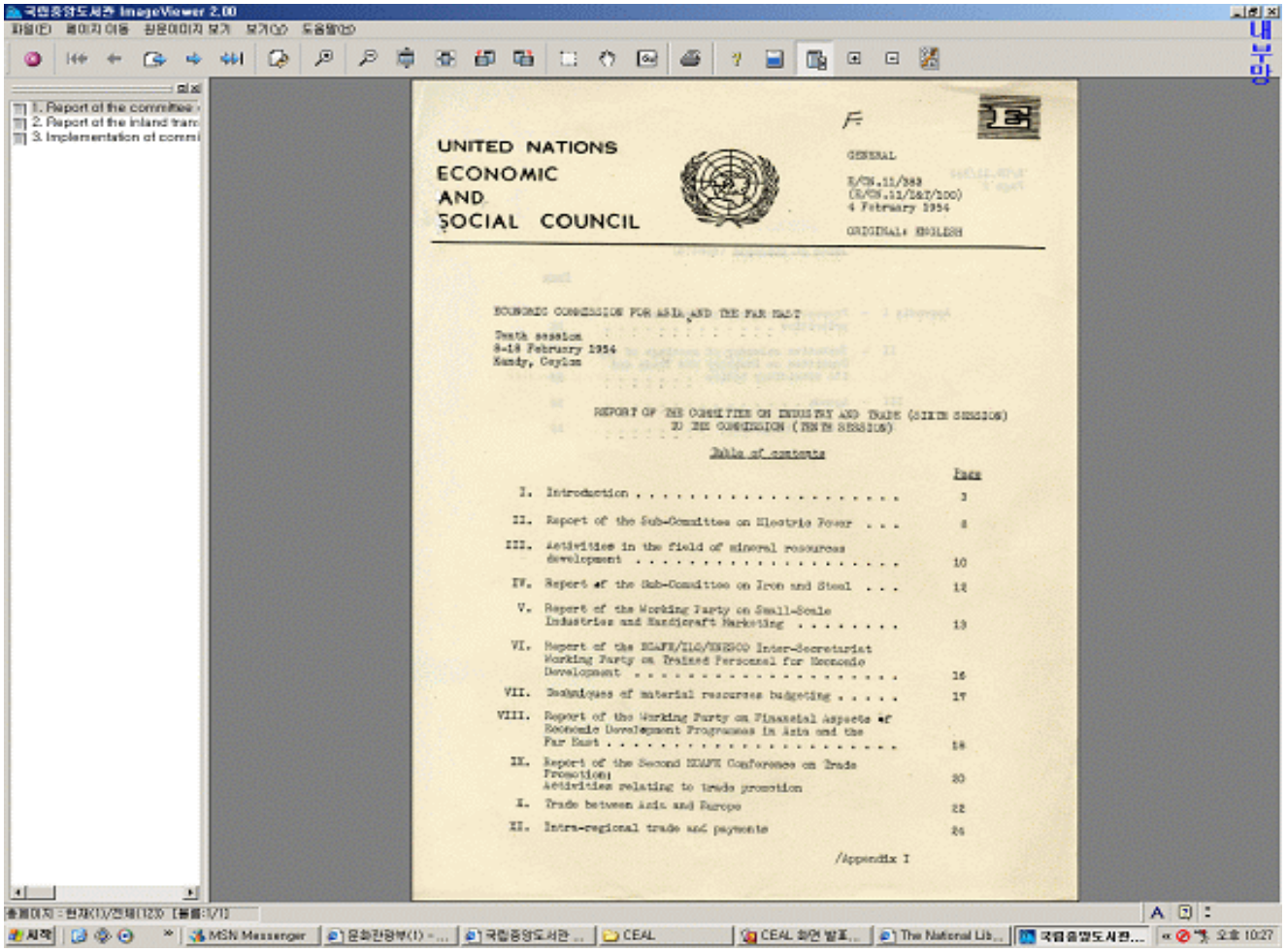
2.1 Full Text DB – Foreign Materials about Korea



- Foreign Materials about Korea
  - Materials in National Archives and Records Administration in the U.S.
  - 1900 – 1960
  - A part of compilation project for Korea-related materials in other countries
  - Table of contents in text
  - Full texts in image
  - 6,882 items
  - 477,378 pages

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2.1 Full Text DB

Copyright Holding Contents

- Access from the National Library of Korea Homepage (http://www.nl.go.kr)
- Access from the Cyber National Digital Library Homepage (http://www.dlibrary.go.kr)
- Unlimited access to the materials that are free of their copyrights
- Copyright-holding 160,664 volumes, 50,123,962 pages are only allowed in those libraries having agreements with Copy and Transfer Center for their copyright compensation fee.

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2.2 National Table of Contents DB

Collection

- All materials in the National Library of Korea
- Monographs and Academic Journals
- Excluding reference materials and single-item materials such as long novels and plays
- Including multi-item materials such as poems, short stories, essays

Coverage

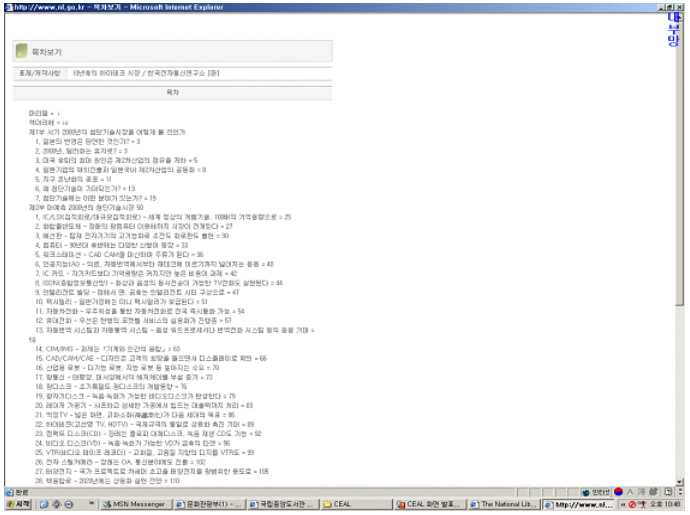
- 2000 – Continue

Collection Size

1,280,000 items

Method

- In Unicode text files same as in the original materials
- Maintain original languages



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2.2 National Table of Contents DB

Current Services

Access from hompages of

- The National Library of Korea (http://www.nl.go.kr)
- The Cyber National Digital Library (http://www.dlibrary.go.kr)
- National Cooperative Cataloging System (http://www.nl.go.kr/kolisnet)

- Download at the member libraries

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2.3 Article Index and Abstract DB

Overview

- Table of contents and abstracts from academic journal articles published by academic association and universities

Collection Size

- 580,000 articles

Coverage

- 2003 – Continue

Current Services

- Access from NLK homepage (http://www.nl.go.kr)
- Links to commercial full text DBs and KERIS free full text DBs

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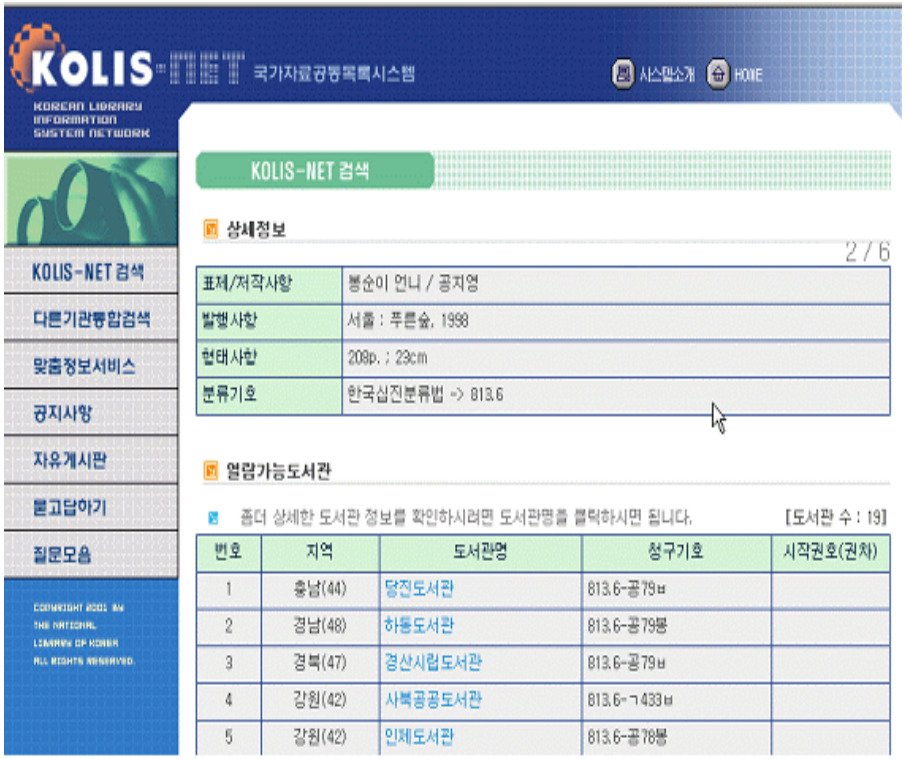
2.4 Union Cataloging DB

Overview

- Integrated DB for collections of public libraries, libraries in government organizations, and libraries for the visually impaired.
  Include KERIS' union catalogs for universities
- To eliminate the unnecessary redundant processes and to establish standardized catalogs



Collection Size

- 18,310,000 items

Coverage

- 1998 – Continue

Current Services

- National Cooperative Cataloging Systems (http://www.nl.go.kr/kolisnet)
- MARC records and table of contents download

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2.5 DB for Visually Impaired People

Full Text DB for the Visually Impaired

Collections

- Basic textbooks for universities for their visually impaired students

Method

- Capture titles, tables, images, and pages into text for text reader for the visually impaired

Coverage and Collection Size

- 2003 – continue
- 3,416 volumes, 1,301,026 pages

Current Services

- National Digital Library's Visually Impaired Homepage (http://sigak.nl.go.kr)
- Provided in synthesized voice : enabling to print in Braille by Braille converter
- Service start date from March 2004
- Only available to those visually impaired certified by the library to protect copyrights

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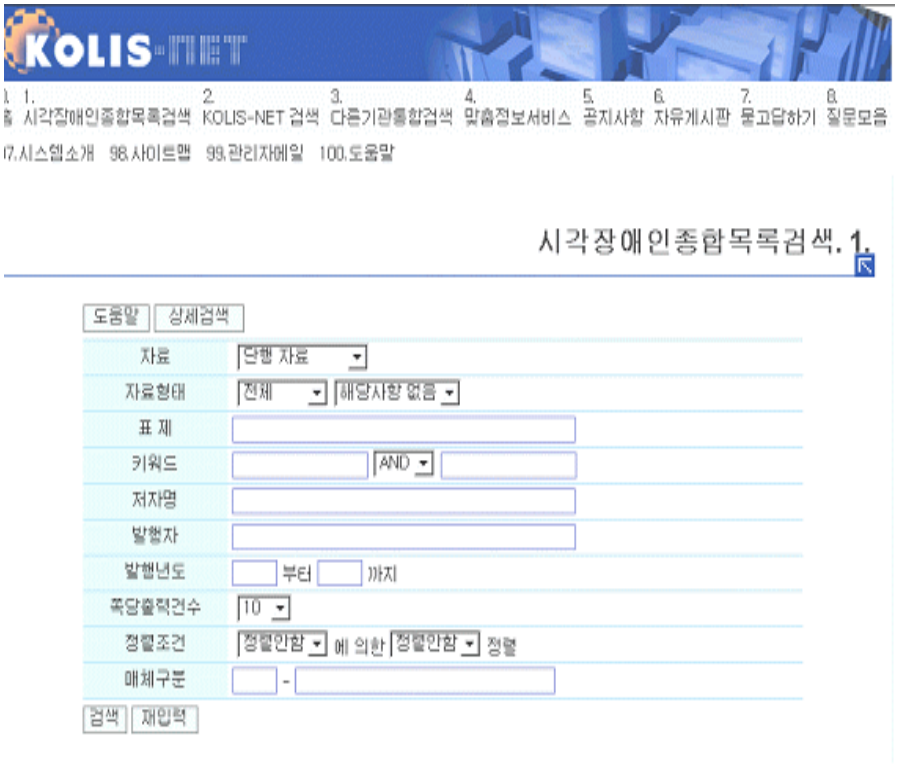
2.5 DB for Visually Impaired People

Union Cataloging of Materials for the Visually Impaired

Current Services

- Convert the list of materials in the Department of Visually Impaired into MARC format to integrate them into the union catalogs
- From 2003, 140,000 items
- National Union Catalogs (http://www.nl.go.kr/kolisnet)
- National Digital Library Homepage for the Visually Impaired (http://sigak.nl.go.kr)



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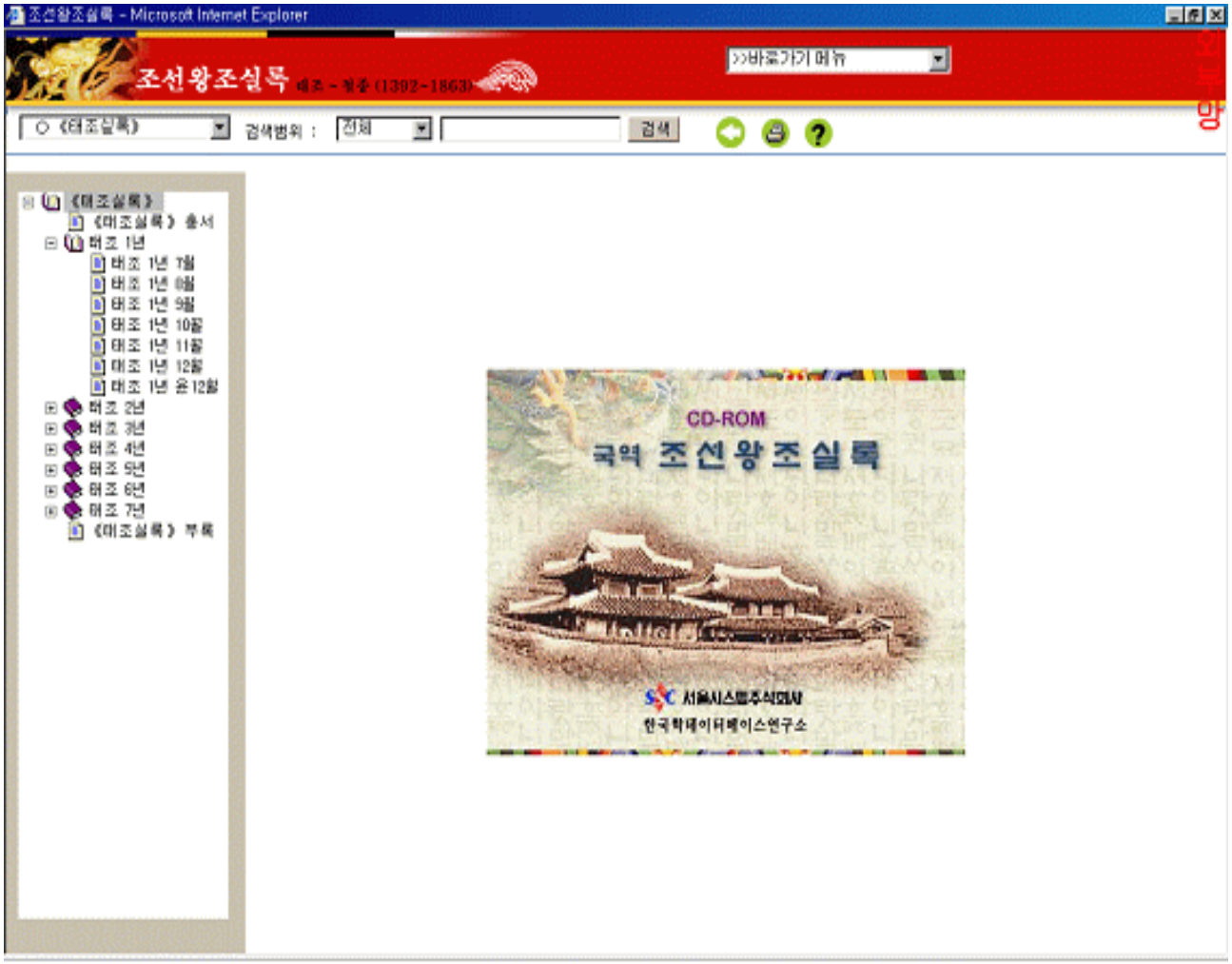
2.6. Purchase DB and Distribute for Public Libraries



- Purchase DB and Distribute for Public Libraries
  - Purchase commercial databases and distribute to public libraries
  - Korean Studies materials, academic information
  - 3,064 items

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3.1 Current Services

Collection

- 8 institutions including the National Library of Korea
- Catalogs, table of contents and full text

Coverage

- 1996 – continue

Collection Size

- 4,042,504 items, 248,395,440 pages

Integrated Search Service

- Search multiple organizations' databases with selected institutions or all of them
- Meta search, Z39.50 search, web search engine
- Keywords search, detailed search

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3.2 Participating Body

- The National Library of Korea http://www.nl.go.kr
- National Assembly library of Korea http://www.nanet.go.kr
- Supreme Court Library of Korea http://glaw.scourt.go.kr
- Korea Advance Institute of Science and Technology (KAIST), Science Library) http://darwin.kaist.ac.kr
- Korea Institute of Science and Technology Information http://www.kisti.re.kr
- Korea Education & Research Information Service http://www.riss4u.net
- Korea Agricultural Science digital Library http://lib.rda.go.kr/
- Korea Knowledge Portal http://www.knowledge.go.kr

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4.1 Direction of the Construction of the NDL

Creation of a New ECO-Frendly and cutting Edge NDL building

- Location : In front of the National Library of Korea,
  Banpo-dong, Seocho-gu, Seoul, Korea
- Scale : 38,013,39 square meters
  (3 ground floors and 5 underground floors)
- Facilities : Spaces for collecting, creation, preservation and user services of digital resources, offices, book stacks, underground parking lots
- Book stacks capacity : 12 million volumes
- Duration of project : 2002-2008 (7 years)
- Total budget : 115,200,000,000 KRW
- The National Digital Library Homepage **(http://www.ndl.go.kr)**

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4.1 Direction of Construction of the NDL

Plan to Harmonize with the main library building

- Securing of the view from the building on square and Seoripool park
- Forming an open view from the digital library toward Seoripool park

Futuristic eco-friendly library

- Introduction of natural sunshine and natural ventilation
- Environment friendly space

Gateway for digital knowledge resource

- In consideration of user-friendly system
- Easy search and retrieval on online publication, e-books, web databases or VOD

New model for digital library

- Presenting a digital library applied with high-tech intelligent library system
- Introduction of a system to preserve digital materials and automatic transfer systems

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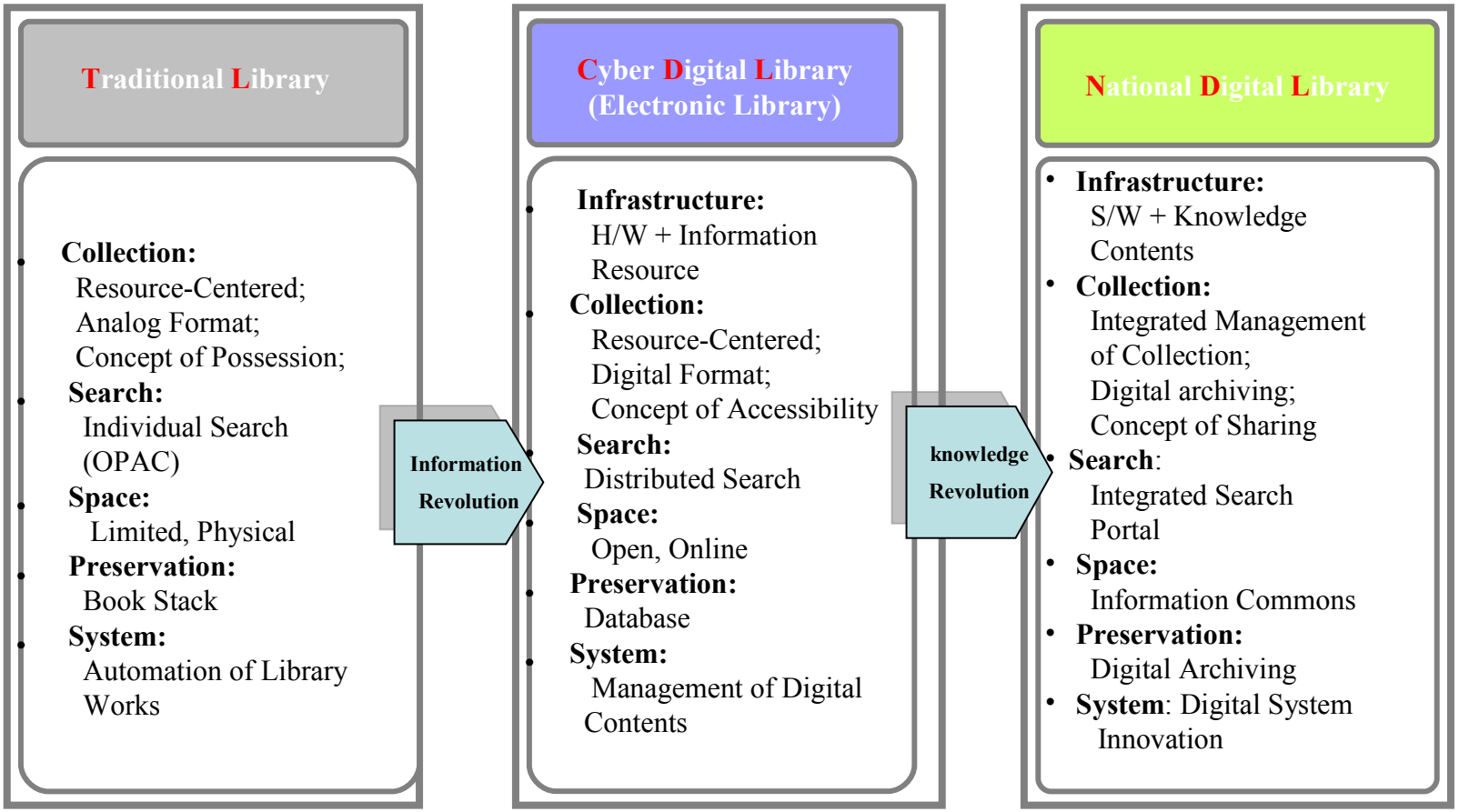
4.2 NDL Management Strategies

* The National Digital Library of a New Paradigm



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4.2 NDL Management Strategies

Integrated Portal for Digital Libraries in the World

- Two keywords to support the National Digital Library's vision :

Integration **Openness**

1. Integrated management of the high quality resources of digital libraries that are scattered in domestic and abroad
2. Open platform where users can access to its information resources and participate voluntarily

- Integration and openness are not mutually exclusive but closely related each other to generate NDL services.

- Information sharing and user participation environment for the public to contribute to the enhancement of knowledge literacy of people.

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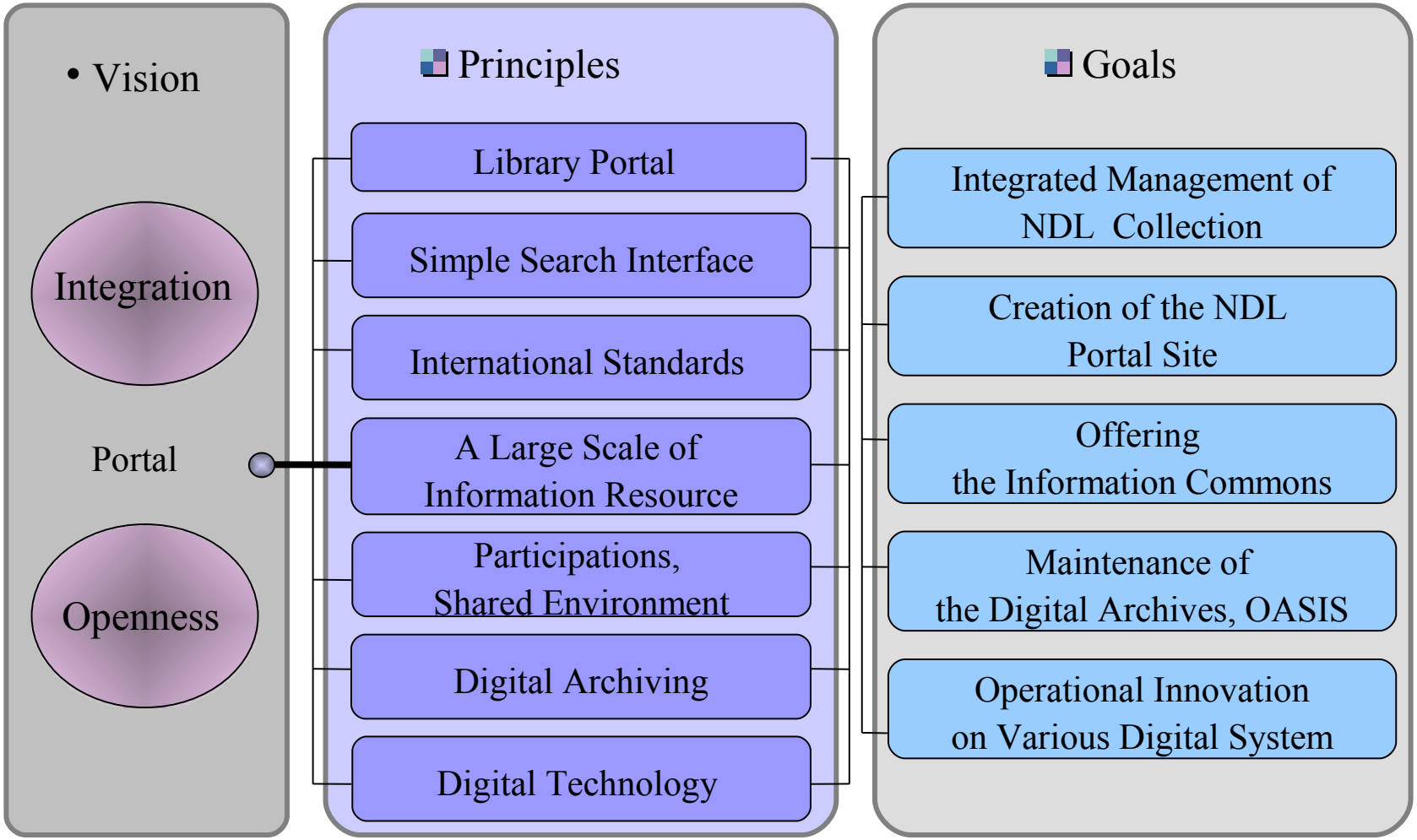
4.2 NDL Management Strategies

* Operational Strategy



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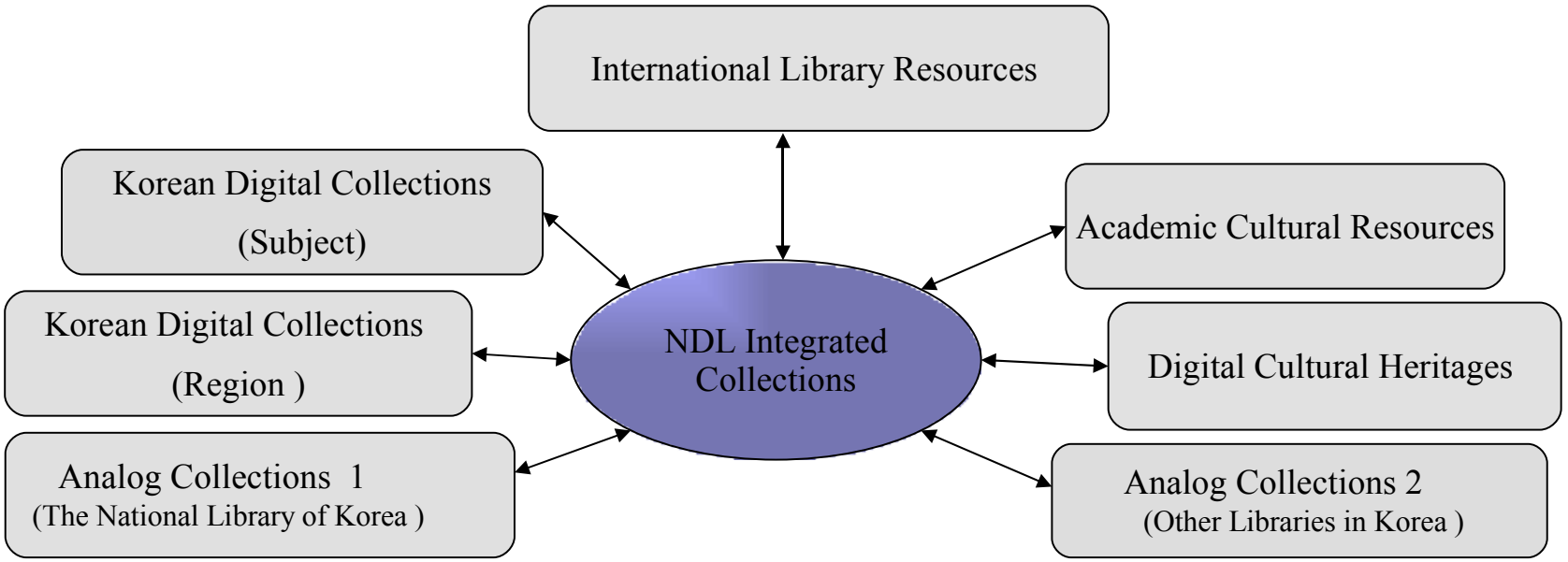
4.2 NDL Management Strategies

* Operational Strategy

Goal 1 . Integrated Management of NDL Collections



Three levels of Metadata *** Community Metadata: DC Agent W/G Metadata**

*** Collection Metadata : RSLP CD Schema, DC CD AP of DCMI**

*** Content Metadata**

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4.2 NDL Management Strategies

* Operational Strategy

Goal 2 . The Digital Library Integrated search Environment

Type of Resources	2010 Collection Unit	2015 Collection Unit
NDL Digital Collection	20 ~	100 ~
Domestic Digital Libraries'	100 ~	300 ~
Foreign Digital Libraries'	100 ~	200 ~
Domestic and International Scholarly and Cultural Resources	500 ~	1000 ~
Domestic and International Open Access Collection	300 ~	1000 ~

Type of Resources	Item Unit	Item Unit
Digital Cultural Heritage Resource (Archiving)	1,000,000	3,000,000

1. Collection search & Contents search

- *** Meta-Search Based on OAI-PMH**
- *** Distributed-search based on API (Z39.50, SRU/SRW)**
- *** Meta-search**
- *** Chained search based on OpenURL**

2. Value-added services based on its integrated search

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4.2 NDL Management Strategies

* Operational Strategy

Goal 2 . The Digital Library Integrated Search Environment

· Service Components

	Search Service	Interactive Service
General	• Integrated Search	• Public Notice • General Q&A
Personal	• Customized Search • License Search	• Personalized Notice • Personalize Q&A • Personalized Reference Service • Personalized Online Repository

Sub-portal

- By Subject
- By Region
- By User Type
- By Media Type
- By Personalization

Outreach Service

- Service for the Underprivileged (the Disabled, the Poor)
- Multicultural Service (Minorities, Foreigners)
- Open Policy for Portals

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4.2 NDL Management Strategies

* Operational Strategy

Goal 3 . An Innovative Model for Digital Resource Services in Physical Spaces

Information Commons

- Reference Information Services
  - Information Literacy
  - Information Reference
- Digital Facilities Services
  - Digital Learning
  - Ubiquitous Lounge
- Media Services
  - Media Studio
- Services for the Underprivileged with Information
  - Services for the Disabled or Foreigners
  - Special Devices Services

- Hi-Tech Digital Equipments
- Comfortable Service Environments

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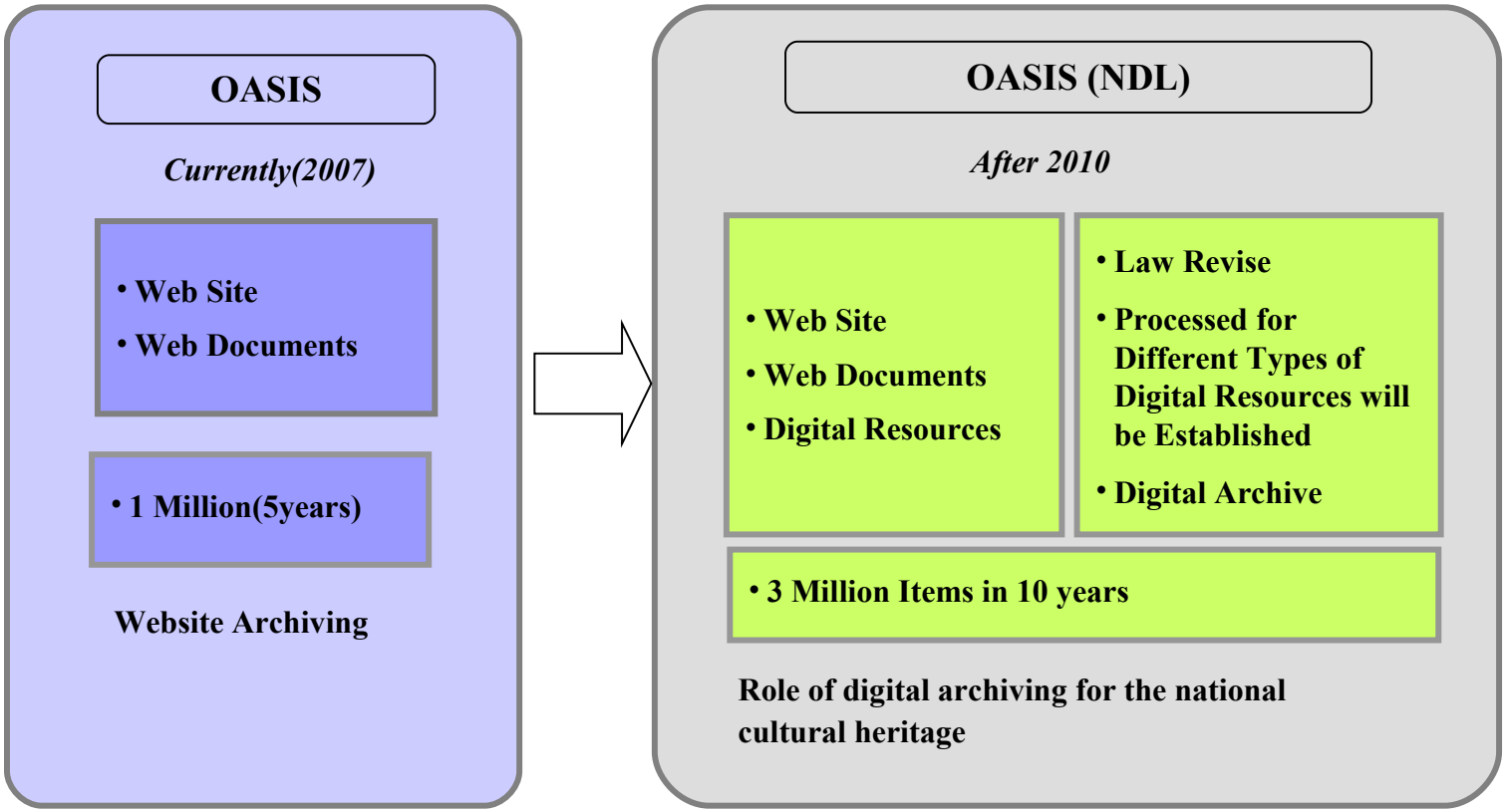
4.2 NDL Management Strategies

* Operational Strategy

Goal 4 . Digital Archiving



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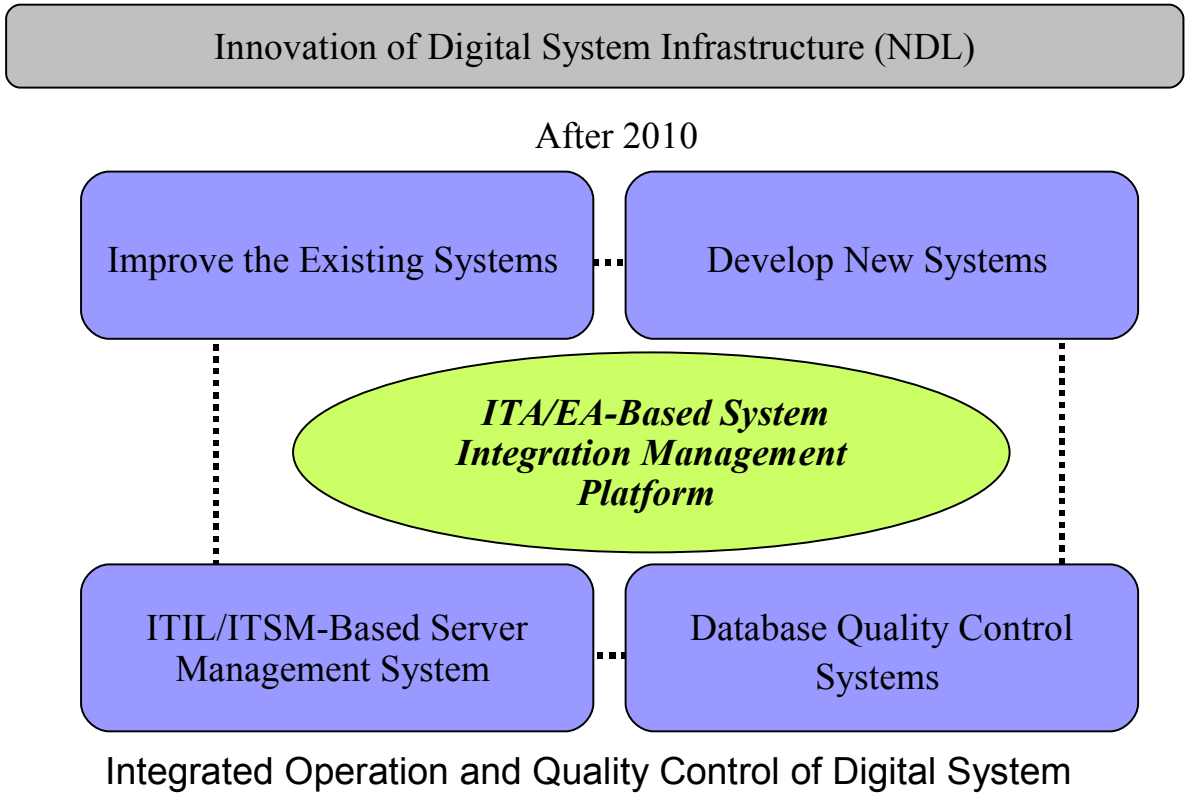
4.2 NDL Management Strategies

* Operational Strategy

Goal 5 . New Innovative Digital System



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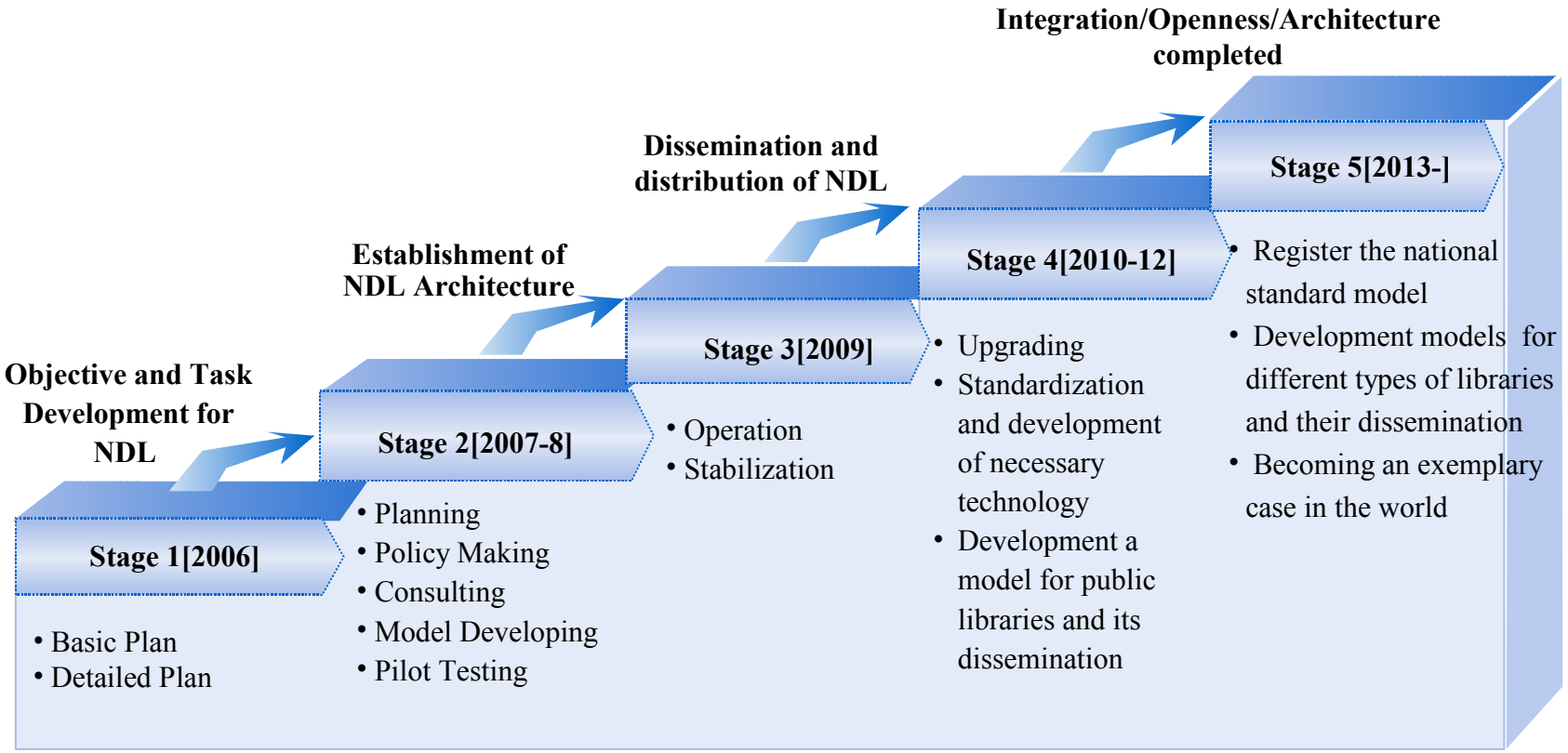
4.2 NDL Management Strategies

* Development of Digital Library Architecture Model Lead by the Government



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4.3 NDL Support Group – “Friends”

General Directions

- The National Digital Library is moving to become as closer as possible to a user-oriented library system based on the new knowledge paradigm.
- To collect user feedback for more effective library management, the National Digital Library will create “Friends of the National Digital Libraries” and they will actively get involved in the library operations.

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4.3 NDL Support Group – "Friends"

• "Friends of the National Digital Library" consists of representatives from 7 areas
- Library & Information Studies
- Information Contents Companies
- Promotion Group
- Information & Communication Science
- Libraries
- User Group
- Entertainer Group

- As the first step, it started with 7 expert "Friends" from each area in 2006 (49 Friends in Total), and will expand gradually into active communities both online and offline.
  - 2006, 5 sub-groups, each group meetings

- The National Digital Library provides the "Friends" space at the National Digital Library homepage.

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*** The National Digital Library**

- Integrating the collection of books and digital cultural assets in both domestic and abroad, the largest digital archive in Korea
- New way of accessing information by the comprehensive management system combining the previous analog and the digital collection
- Information Commons
  - High technology service environment
  - Offering efficient support program to accommodate the needs and demand even from those who are having difficulties to access digital information resources, such as the disabled, foreigners, and the seniors
- Open Portal Sites
  - User-friendly and interactive digital library
  - Offering easy search environment as a hub of digital information society

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Thank you very much
for your attention.
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