

dCollection

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KERIS

KOREA EDUCATION AND RESEARCH
INFORMATION SERVICE

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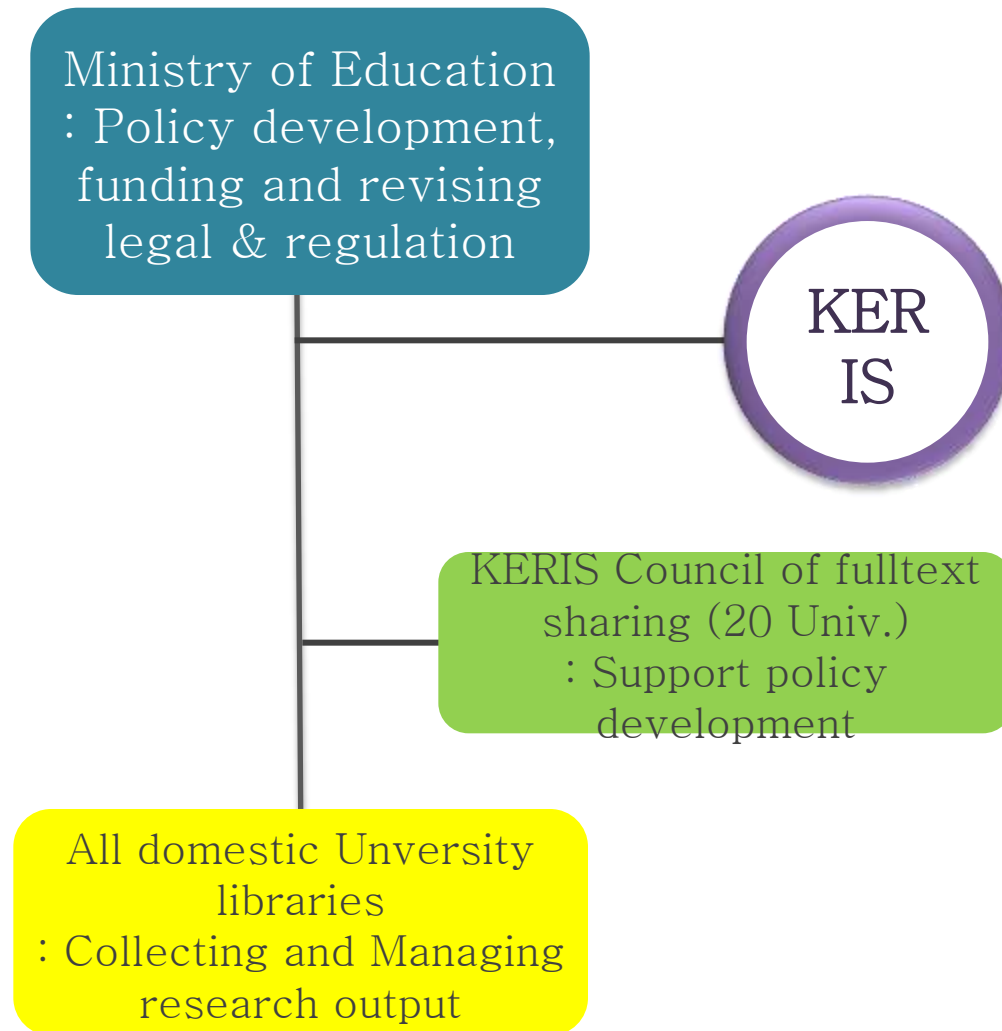
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Goal of dCollection System

Goal for establishment

Enhancing the quality of research by building and operating dcollection system which collect and share research output produced by Univ.

KERIS Roles



Roles

- Support Policy development and implementation
- Planning & design
- Secure Budget
- Building System
- Operating Service

dCollection Overview

What is dCollection?

- dCol. is abbreviation of Digital Collection
- dCol. has role of Institutional repository(IR)
- dCol. collect, preserve, manage, distribute digital research output produced by domestic university faculty and student
- Students can submit electronically thesis and dissertations through dCollection System
- Metadata of dCol. is transferred to RISS and then users can search the metadata and link to fulltext.
- 60,000 ~ 70,000 thesis(& dissertations) are updated every year

dCollection Overview

What is policy of dCollection project?

- Discuss with KERIS council of sharing fulltext regarding to deciding operating Policy
- Metadata of dCol. is offered to portal services through dCollection central system
- KERIS upgrade dCollection program 2 times per year through reflecting request of librarians
- Authors can decide whether their dissertations open or not open to the public through dCollection system.
- Authors can select options of CCL and DRM.
- KERIS provide dCollection training program for librarians 2 times per year.

Current situation of dCol.

dCollection members

– Annual stats.

(as of Dec. 2013)

dCollection	2003	2004	2005	...	2011	2012	2013
No. of inst.	4	20	40	...	216	220	226

– 55 Universities have their own IR(Institutional Repository)

- Distribute and install dCollection programm on University libraries' server

- Metadata including fulltext linking URL is transferred to dCollection central system(KERIS system)

- Fulltexts exist in University library local dCollection server.

Current situation of dCol.

dCollection members

– Annual stats.

(as of Dec. 2013)

dCollection	2003	2004	2005	...	2011	2012	2013
No. of inst.	4	20	40	...	216	220	226

– 171 University libraries use dCollection hosting service

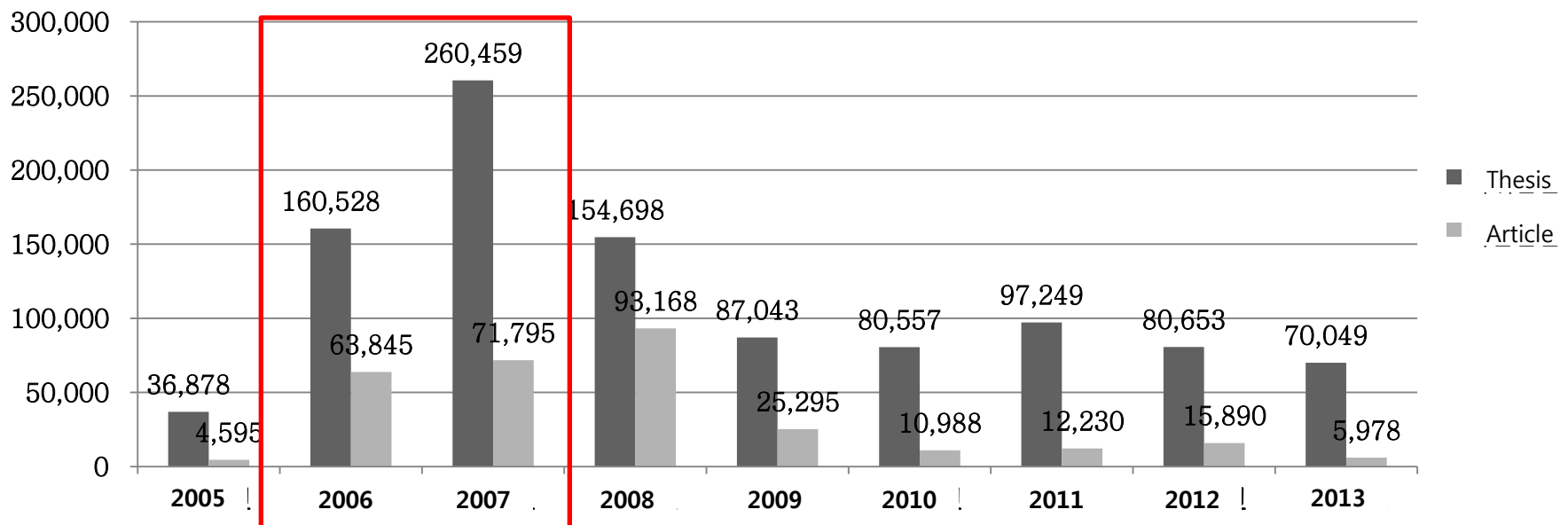
- All metadata and fulltext exist in dCollection Central System
- Developed Oracle version of dCollection program for hosting service

Current situation of dCol.

dCollection number of Fulltexts

– Annual stats.

(as of Dec. 2013)



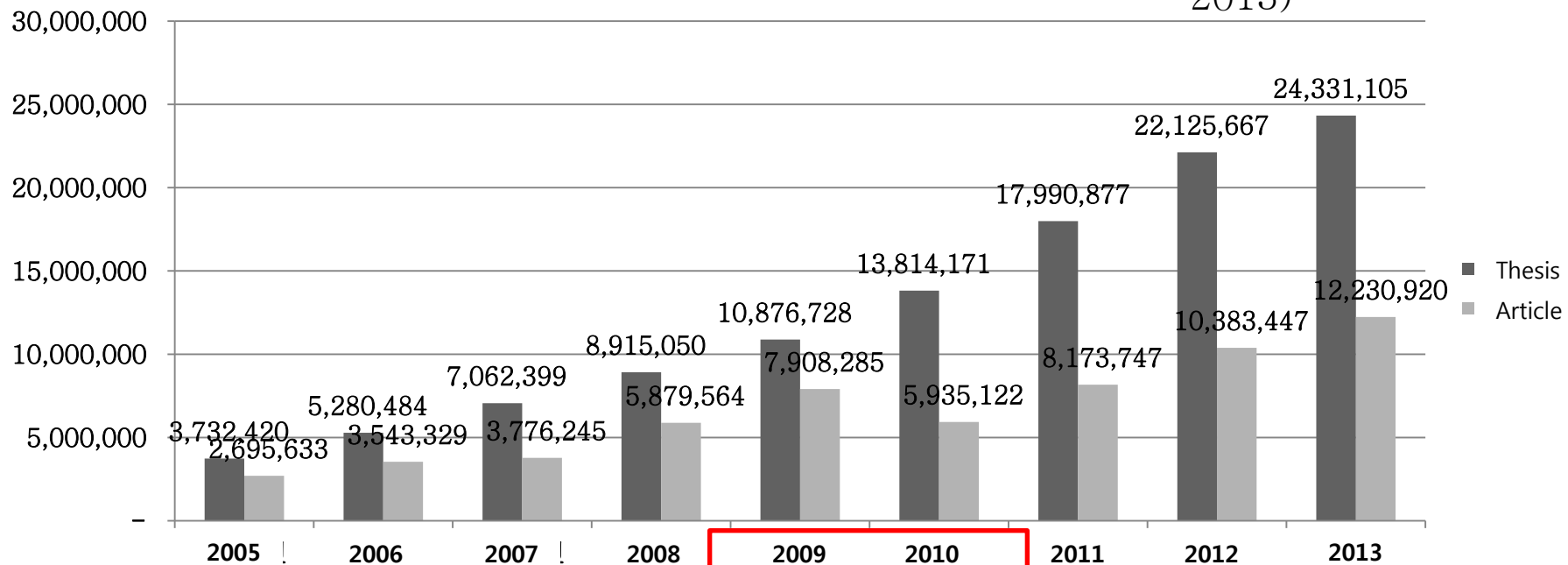
- A lot of back data uploaded from 2006 through 2007
- In 2007 the number of dCollection members was sharply increased

Current situation of dCol.

dCollection Usage

– Annual stats.

(as of Dec.
2013)



- Journal publishers newly added and revising RISS service page in 2009
- In 2010 KERIS started to give metadata to NAVER which is the most popular portal service in Korea

Current situation of dCol.

Fulltext of thesis and dissertations

– Top 10 unversity libraries

(as of Nov. 2013)

Ranking	Univ.	fulltext	CCL/Ratio(%)
1	Seoul National Univ.	49,079	3,699(7.54)
2	Pusan Natioanl Univ.	39,957	7,195(18.01)
3	Ewha Womans Univ.	38,472	8,523(22.15)
4	Hanyang Univ.	37,739	12,302(32.6)
5	Kyunghee Univ.	36,720	9,067(24.69)
6	Chungang Univ.	35,207	31,367(89.09)
7	Yonsei Univ.	34,566	4,436(12.83)
8	Korea Univ.	34,282	7,623(22.24)
9	Chonnam National Univ.	31,445	5,800(18.44)
10	Chungnam National Univ.	28,696	6,739(23.48)

Source : 2013 White paper on ICT in education in Korea, KERIS

Current situation of dCol.

Usage of Fulltext of thesis and dissertations

– Top 10 university libraries

(as of Nov. 2013)

Ranking	Univ.	Download
1	Ewha Womans Univ.	1,369,720
2	Koera Univ.	1,048,402
3	Chungang Univ.	1,006,749
4	Yonsei Univ.	792,841
5	Hanyang Univ.	687,205
6	Kyunghee Univ.	665,727
7	Dankook Univ.	625,414
8	Sungkyunkwan Univ.	596,746
9	Sookmyung Women's Univ.	583,233
10	Seoul National Univ.	562,481

Source : 2013 White paper on ICT in education in Korea, KERIS

Current situation of dCol.

The number of Fulltext of Journal articles

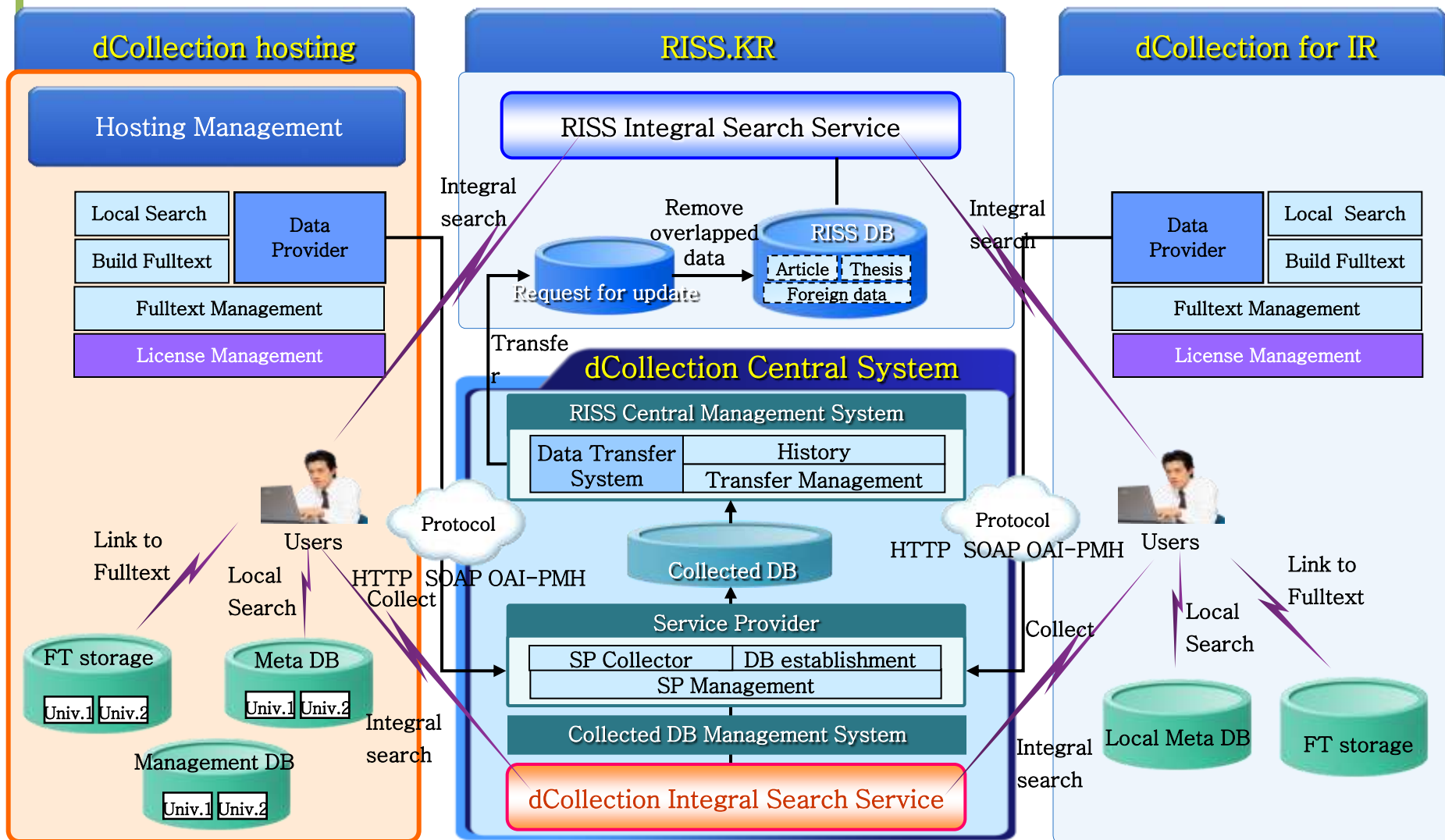
– Top 10 university libraries

(as of Nov. 2013)

Ranking	Univ.	fulltext	Download
1	Seoul National Univ.	26,056	108,784②
2	Yonsei Univ.	19,422	73,201③
3	Ewha Womans Univ.	18,422	140,921①
4	Korea Univ.	15,659	52,147④
5	Kyungpook National Univ.	15,454	37,283⑦
6	Chungnam National Univ.	15,135	35,847⑧
7	Hankuk Univ. of Foreign Studies	13,884	50,248⑤
8	Yeungnam Univ.	13,731	22,586⑨
9	Kyunghee Univ.	13,369	44,635⑥
10	Chonbuk National Univ.	12,963	13,591⑩

Source : 2013 White paper on ICT in education in Korea, KERIS

System Configuration of dCol.



Functions of dCollection

Provide Fulltext URL of thesis & dissertations and Link to Fulltext

- Provide linking URL to fulltext of thesis & dissertations which Univ. libraries have
- Display, print and download fulltext

Build integral metadata DB of thesis & Dissertations

- Prepare for updated metadata
- Collect updated metadata periodically

Functions of dCollection

Managing Integral metadata DB of thesis & dissertations

- Review collected metadata of thesis & dissertations
- Revise metadata of thesis & dissertations

Uploading and managing journal articles

- librarians upload metadata of journal articles
- They search, revise and remove metadata(including vol. issues of journal)
- Input, revise and remove metadata, abstract and table of contents
- Manage matching information between metadata and fulltext

Functions of dCollection

Convert metadata of backfiles

- Convert metadata of backfiles of scholarly resources
- Transfer the converted metadata to dCollection Central System

Build journal article fulltext

- Upload journal article fulltext
- Convert collected fulltext to PDF image for service
- Manage matching information between metadata and fulltext

Functions of dCollection

Manage statistics

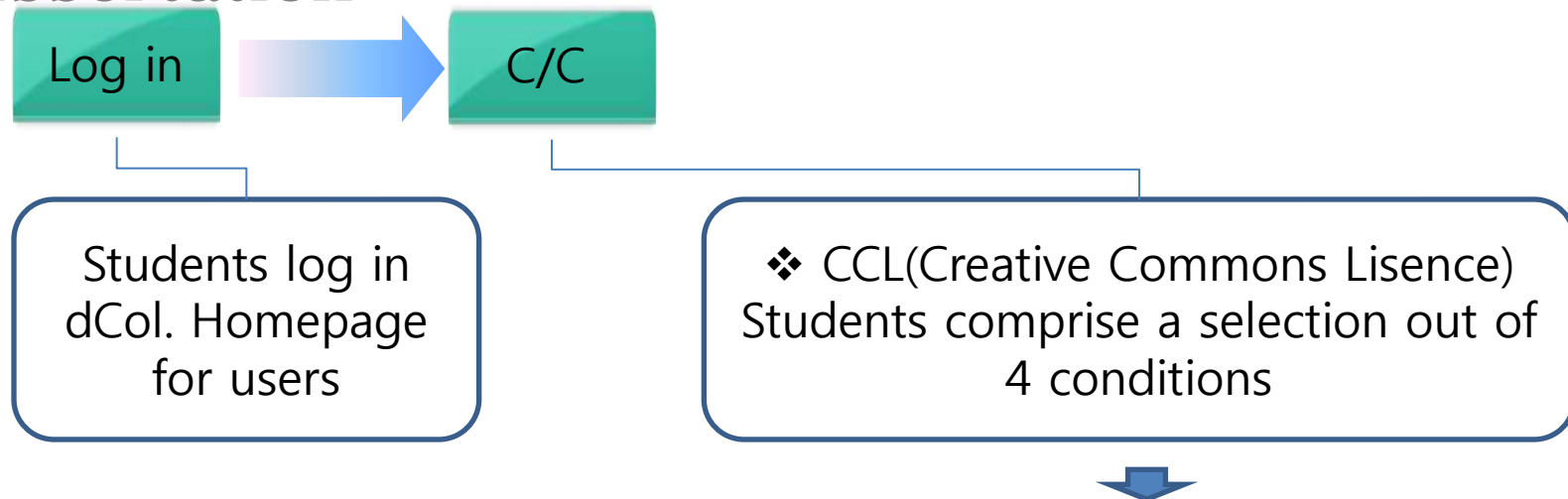
- Statistics of the number of collected fulltexts
- Statistics of usage(fulltext download)
- Information of dCollection members
- Information of setup and authorization





Submission of thesis and dissertations

- Fill in metadata, abstract and table of contents
- Upload fulltext
- Converting fulltext to PDF image file

Functions of dCollection

Process of submission of thesis and dissertation



Icon	Right	Description
	Attribution (BY)	Licenseses may copy, distribute, display and perform the work and make derivative works based on it only if they give the author or licensor the credits in the manner specified by these.
	Share-alike (SA)	Licenseses may distribute derivative works only under a license identical to the license that governs the original work. (See also copyleft .)
	Non-commercial (NC)	Licenseses may copy, distribute, display, and perform the work and make derivative works based on it only for noncommercial purposes.
	No Derivative Works (ND)	Licenseses may copy, distribute, display and perform only verbatim copies of the work, not derivative works based on it.

Source : http://en.wikipedia.org/wiki/Creative_Commons_license

Functions of dCollection

Process of submission of thesis and dissertation



- ❖ 20 items (Mandatory 9 items, recommendation 11 items)
- ❖ Students must fill in 9 items of metadata items



- SOMS (Scholarly Object Metadata Set)
- Metadata standard
- Designed by expanding DC(Dublin Core)

SOMS(Meta standard of dCol.)

No.	Element(In Korean)	Elements(Eng)	Options	Remarks
1	제목	title	Mandatory	Title
2	제목(부제목)	subTitle	Recommend	Sub title
3	제목(대등)	alternative	Recommend	Alternative title
4	제목(제2언어)	translated	Recommend	Title in second language
5	저자명	creator	Mandatory	Author name
6	저자 (제2언어)	otherName	Recommend	Author name in second language
7	저자의 소속	affiliation	Recommend	Organization that belongs to author
8	저자 이메일	whols	Recommend	Author's email address and homepage
9	주제어(키워드)	subject	Recommend	keyword
10	초록/요약	Abstract	Mandatory	abstract (summary)
11	목차	tableOfContents	Recommend	Table of contents
12	발행기관	publisher	Mandatory	Publisher's name
13	지도교수	Advisor	Recommend	Professor who advise
14	발행년	Issued	Mandatory	Issued year
15	학위수여년월	Awarded	Mandatory	Month when degree was awarded
16	학위명	thesisDegree	Mandatory	Awarded degree(Master or Doctoral)
17	학과	major	Mandatory	Major
18	세부전공	specialty	Recommend	Specialty
19	페이지	page	Recommend	Total number of pages
20	본문언어	language	Mandatory	First language in which thesis & Dissertation was written

Functions of dCollection

Process of submission of thesis and dissertation



- ❖ Students can choose agreement of opening their dissertations to the public
- ❖ or they can choose disagreement of opening their dissertations to the public

Functions of dCollection

Process of submission of thesis and dissertation



- ❖ Students input table of contents of their dissertations.
- ➡ The table of contents help users to jump to pages which they are interested in

Functions of dCollection

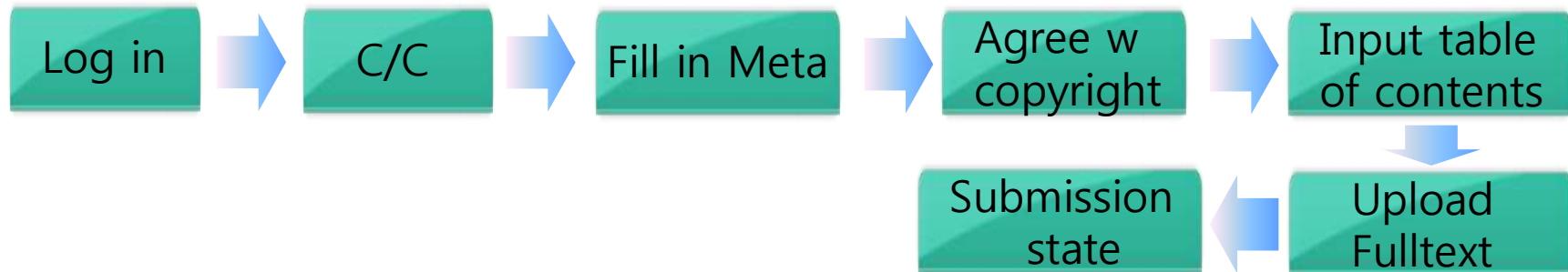
Process of submission of thesis and dissertation



- ❖ Students upload their dissertations onto dCol. system
- ➡ Users can search dissertations at RISS and link to fulltexts which are in dCol. system

Functions of dCollection

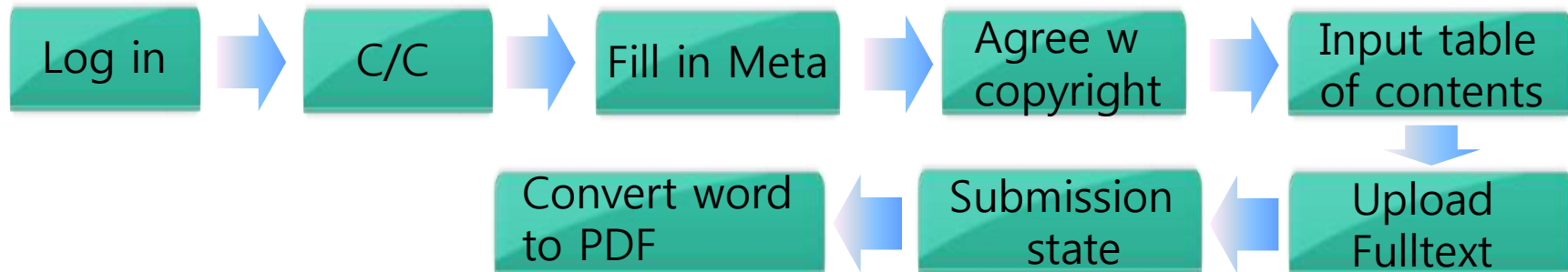
Process of submission of thesis and dissertation



- ❖ Students print confirmation form of submitting their dissertations and agreement of opening them to the public
- ❖ After librarians confirm submission of dissertations, the dissertations can go to next step

Functions of dCollection

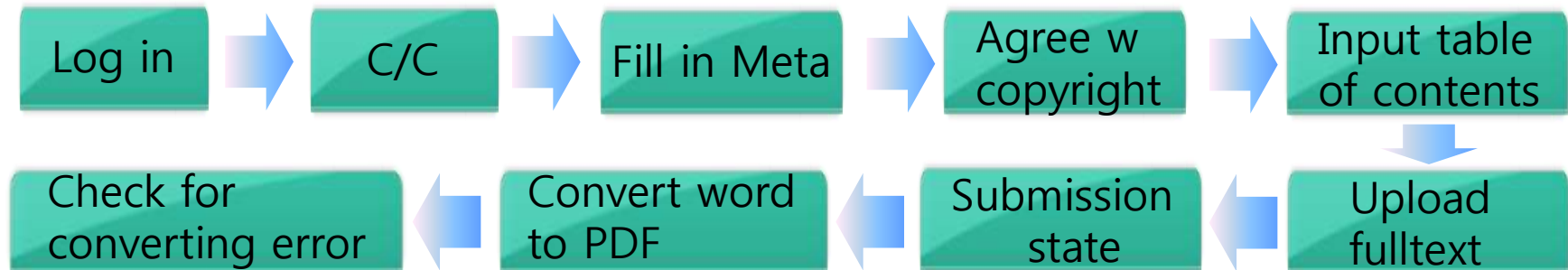
Process of submission of thesis and dissertation



- ❖ Librarians convert word to PDF
- ❖ Librarians can convert many dissertations to PDF all at once by using PDF converting software

Functions of dCollection

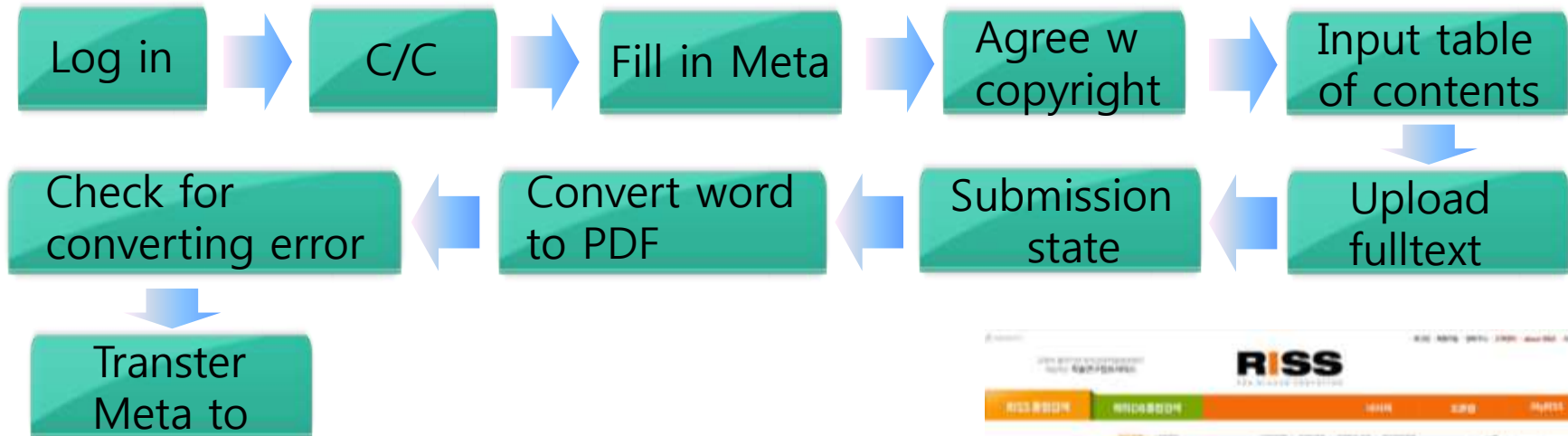
Process of submission of thesis and dissertation



- ❖ Librarians check error of converted PDF file
- ❖ If converting failed, Librarians can convert again

Functions of dCollection

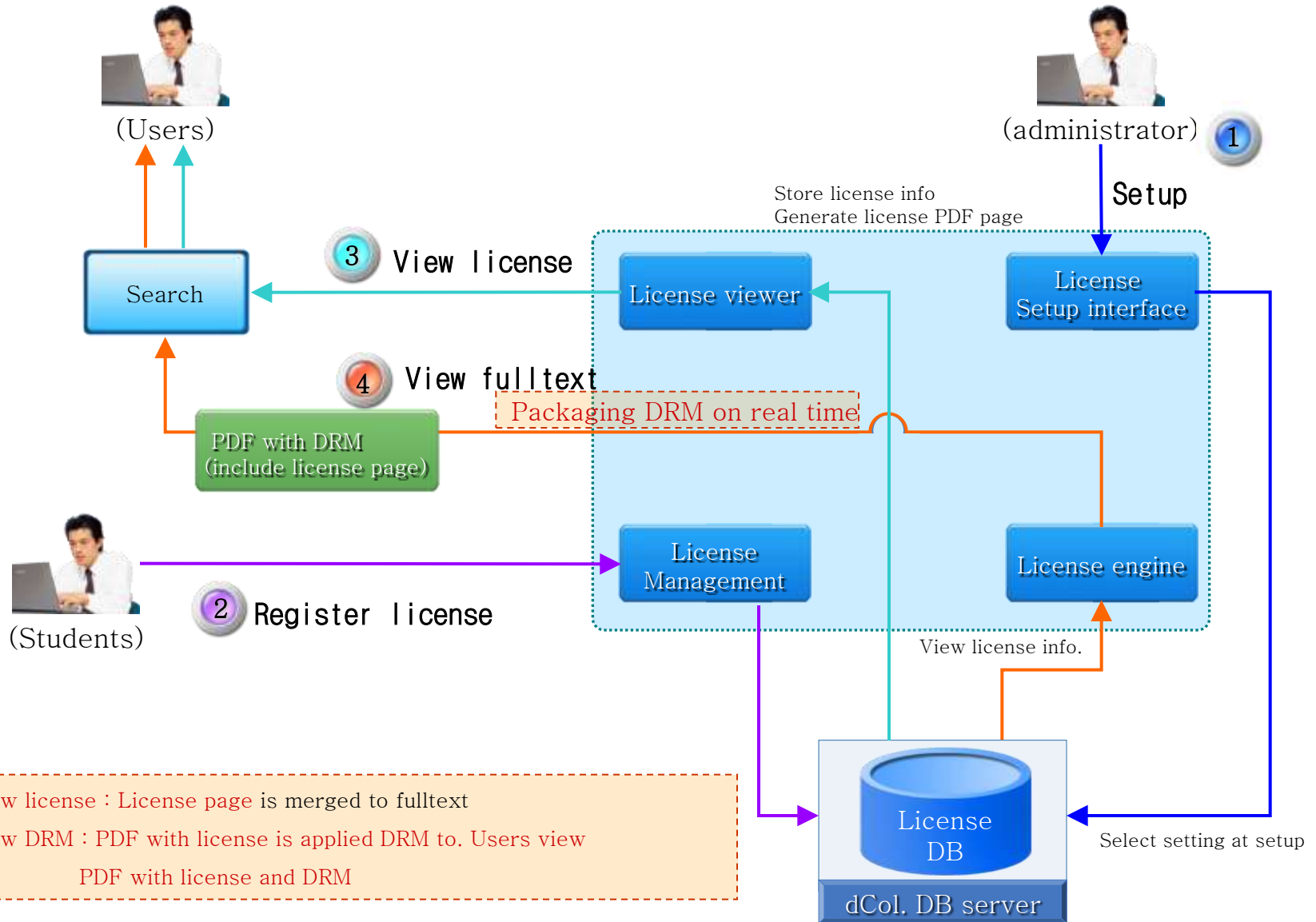
Process of submission of thesis and dissertation



- ❖ Metadata is transferred to dCol. Central system.
- ❖ Users can search the metadata at RISS

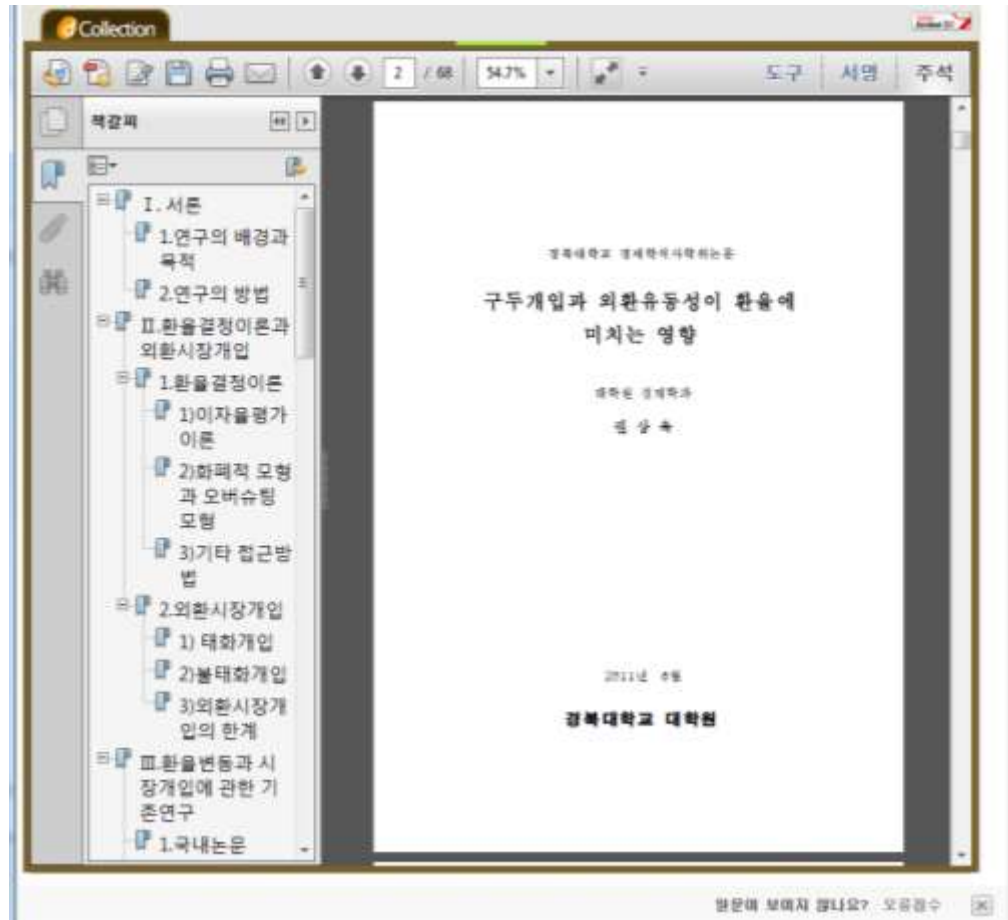


Digital Right Management



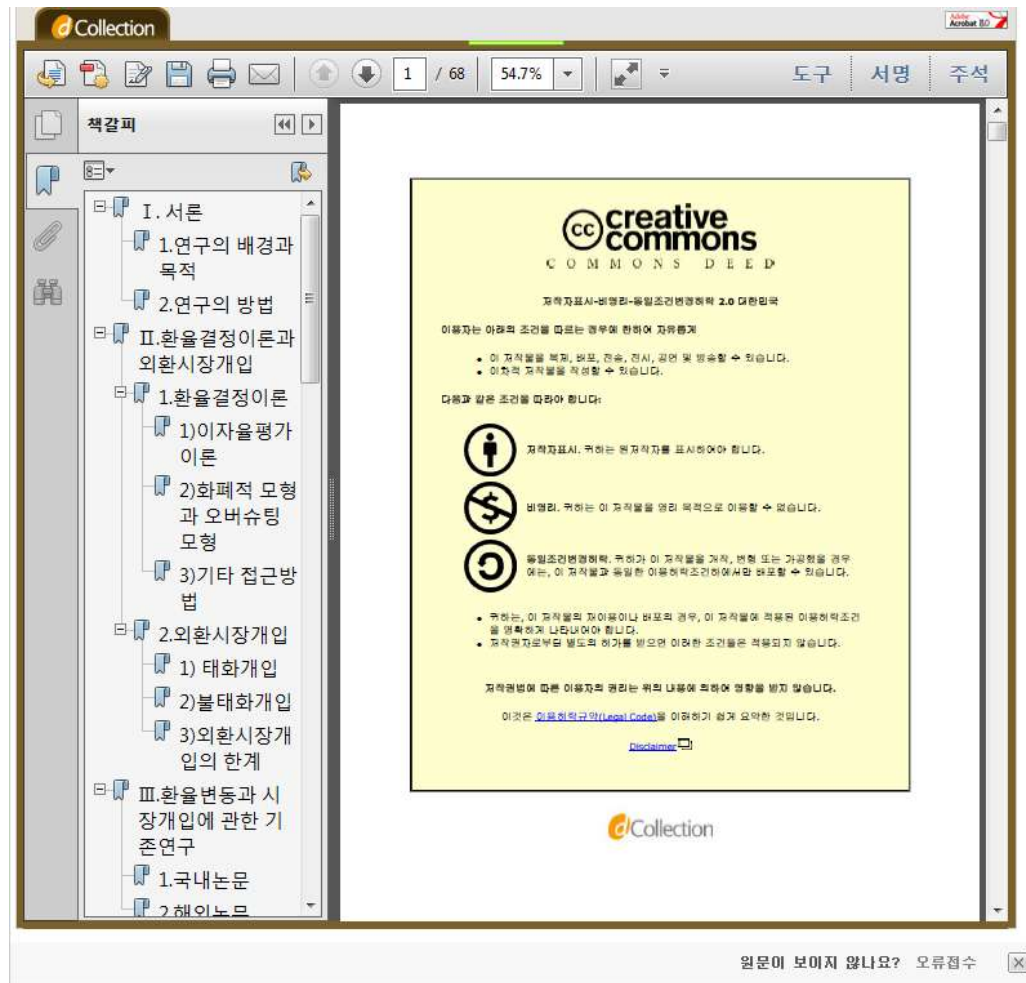
Digital Right Management

PDF before applying license and DRM



Digital Right Management

PDF after applying license and DRM



Digital Right Management

DRM and policy of Univ. library

- librarians can select DRM options according to policy
- DRM options are Display, Print and Save.
- librarians can setup saving conditions of fulltext
- The fulltext that users can not view is delivered via Inter library loan



Q & A



THANK YOU