

Providing Access to Documentary heritage using Open Source Software

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2nd Inter-regional Conference for the Memory of the World:
Preserving and Providing Access to Digital Heritage
8 November, 2019
Daegu, Korea

1. DOCUMENTING ORDINARY LIFE

“Document Everyday Life of 20th Century People”

- The Public Records Management Act was enacted in 1999, and theories and practices began to develop remarkably in the field of public record management
- The 20th Century People's History Research Center recognizes the need for everyday life archives and conducts large-scale digital archive projects before the academic community
- The outcome of this project is to design a way to collect life history data into a digital archive
- Limitations include lack of accessibility and convenience of digital archives and inaccessibility due to inadequate copyright agreement.

image source : <http://www.minjung20.org/>

아카이브ز

아카이브즈 자료 검색

전체 무형유산 아카이브즈

굴비 건조

1950년대 굴비 건조



Themes

겨울 추석 설날 3.1절 6.25 8.15

제 3대 시의원선거 개표작업(1956.5.15)

내리교회

이태원부군당의 부군당굿

이태원부군당은 서울 용산구 이태원 있는 마을 제당으로 이곳은 대략 38 역사를 지닌 당으로 알려져 있다. 민의 안녕을 기원하는 오랜 제당으로

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1. DOCUMENTING ORDINARY LIFE

Begin everyday life archiving and community discourse

- Starting in 2010, discussions began to expand the public record-keeping culture to the private sector.
- In 2012, Myongji University Human Science and Records Research Group held an international conference called “The Stratum of Archive and Depth of Everyday Life”
- This event served as a momentum to diversify objects and subjects from public to private, from governing power to grassroots
- Archivist expertise and archiving software required to spread archiving results to society in general



1. DOCUMENTING ORDINARY LIFE

Begin everyday life archiving and community discourse

- Three papers and books published in 2011 by the Center for Human Science and Research and the International Conference held in 2012 give a big buzz to the academic world.
- Since 2010, research has increased in the philosophical background of daily archives, village archives, and open source software.

Year	Documenting Everyday Life	Community Archives	Locality Archives	Open Source Software
2010			1	
2011	3			
2012		4	4	
2013	2	4	2	
2014	1	1	4	4
2015	2	2	1	3
2016		5		3
2017	2	1		2
2018			1	1
Total	10	16	12	13

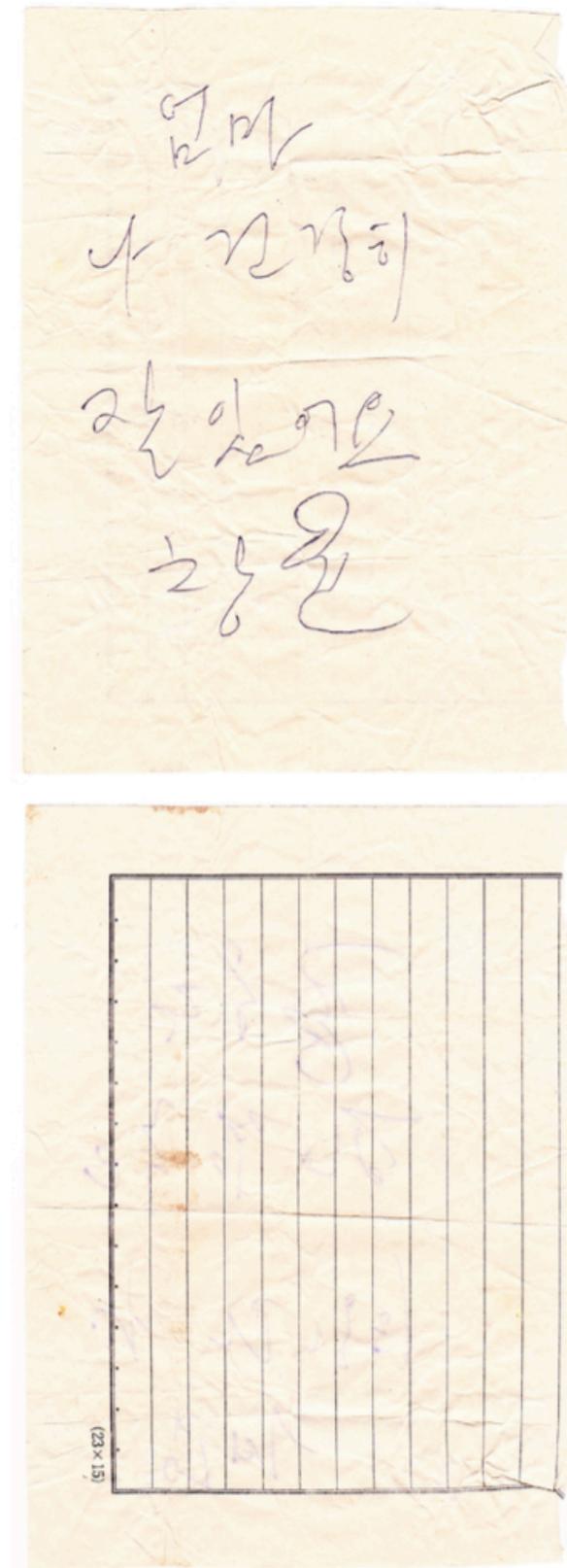
Current State of Publication of Academic Journal Articles

Quoted from: An Daejin(2019), Myongji University, Ph.D. Thesis

1. DOCUMENTING ORDINARY LIFE

HMA & May 12 Diaries

- Myongji University established Human and Memory Archives(HMA) in 2013
- HMA collects a diary of May 12 every year with Mass Observation Archives (MOA) at the University of Sussex, UK.
- HMA reviewed various open source software to provide citizens with a collection of 579 diaries collected on May 12, 2013
- AtoM is suitable for records descriptions based on international records technology standards
- Omeka is ideal for presenting parts of collection as curated content
- Archivematica is suitable for long-term preservation of electronic records
- HMA created digital archives and provided access to citizens in 2014 using AtoM and Omeka



1. DOCUMENTING ORDINARY LIFE

OSASF Established

- In January 2014, the Open Source Archive Software Forum (OSASF) was established to share open source software information for archiving, led by HMA.
 - OSASF begins activities such as translating AtoM, Omeka, Archivematica, and writing user manuals.
 - Share manuals and answer questions through the OSASF website.
 - Providing AtoM and Omeka pilot hosting services to 20 institutions including National Assembly Archives and universities.



AtoM포럼 첫번째 세미나

AtoM으로 아카이브 만들기

2013년 12월 20일 오후2시
명지대학교 인문캠퍼스 행정동 3층 대회의실

프로그램

1. AtoM으로 아카이브 만들기(안대진)
 2. AtoM, *Archivematica*, Omeka 설치방법(이승일)
 3. AtoM포럼 운영방안 및 과제(황진현)

초대의 글

진)
설
이 세미나는 현재까지 AtoM에 대해 우
리가 구축하고 경험한 것을 공유하기 위
한 자리입니다.
제5회 기록인대회를 통해 AtoM포럼의
설립을 알린 이후 첫번째로 개최되는 오

1. AtoM으로 아카이브 만들기

인간과기억아카이브는 AtoM 기반의 아카이브 시스템을 구축했습니다. 최근에는 보존과 전시를 위해 Archivematica, Omeka 등의 오픈소스 소프트웨어를 추가로 도입하였습니다.

2. AtoM, Archivematica,

Omeka 설치방법
오픈소스 아카이브 소프트웨어를 구동하기 위한 Linux OS와 Apache/MySQL, PHP, MySQL 기반 소프트웨어 환경의 구축에 대해 알아봅니다. 또한 AtOM, Archivematica, Omeka의 설치에 대한 노하우를 전달하려 합니다.

토론자

- 조상기
이상민 (명지대 기록정보대학원 교수)
박석훈 (한국문현정보기술 부사장)
원종관 (민주화운동기념사업회 사료관)

2. GUERILLA ARCHIVISTS

Social venture made by three people in their 40s

- In 2016, three researchers at HMA established ArchiveLab.
- ArchiveLab introduces itself as the “Mostly Harmless Archive Lab.” and launches a rejuvenating activity

We are ‘Mostly harmless Archive Lab’
We are ‘Guerilla Archivists’



Seungil
S/W Development



Souldrive
Consulting,
Education



Daejin
Consulting,
Education

2. GUERILLA ARCHIVISTS

Inspired by Comm@NET

- Comm@NET is a UK-based community archive network that has been active from 1994 to 2008.
- Established in 1994 as a charity to promote and support community archives in the UK
- Act as an intermediary between the local community and the sponsoring organization, develop and distribute archive software (Comm@)
- ArchiveLab decided to become Korea's Comm@NET and started researching solutions suitable for private archives



comm@ Software, Support and Web Hosting Package

Quotation prepared November 2002

comm@NET	Price
Support and Web Hosting Package	
comm@ v4 software package including: CD-Rom, Dongle, CD-Rom mastering service	£900.00
Three years telephone and email support	
Conversion, upload and two updates of comm@ community archive onto the comm@NET website	
Support and Web hosting is for a total period of three years.	
Packing and Postage	£5.00
TOTAL Price for Order	£905.00

Seoul NPO center, co-working space



2. GUERILLA ARCHIVISTS

2 AtoM vs 23 OMEKA

- Done over 25 digital archive projects since 2014 (2 AtoM, 23 Omeka)
- Gender, Queer, Human rights, Animal rights, National disaster, Environment, Everyday life, Locality, Diaspora, Economic crisis ..



3. CASE STUDIES

HMArchives

- HMA conducted a partnership project called ‘May 12 Diary’ event with Sussex University UK from 2013
- HMA published ‘May 12 Diary Collection’ catalog online in April 2014
- HMA use AtoM first in korea
- The project won the Grand Prize for Diversity at the 2018 Digital Heritage Awards hosted by Daum Foundation and the National Archives.



image source : dhaward.org

인간과기억아카이브

기록보기 전시 참여 소개

추가 검색옵션을 선택하세요

4개 검색
기록물 기술

최상위 기술 계층 ×

디지털 파일이 포함된 컬렉션 4개

검색된 디지털 파일

5월12일 일기수집 collection
HUMA KR C2 · collection · 2013
'인간과기억아카이브'에서 매년 주최
산한 다양한 형태의 일기 기록물군

당신의 하루를 보관해 드립니다
2018년 5월 12일 일기수집

개인 일기 Collection
HUMA KR C3 · collection
인간과기억아카이브의 일상기록 수
가족 단위의 일기가 수집되어 보존

개인기증 collection
HUMA KR C1 · collection
시간적 범위: 1985~2013 내용적
등 개인들이 기증한 다양한 주제와

언어
고유 기록 4
한국어 4

기록보존소
전체
인간과기억아카이브 3
녹색당 1

생산자
이름
장소
주제
장르

기술 계층
상위 기술 계층
전체 기술
전체
collection 4

3. CASE STUDIES

National Research Institute of Cultural Heritage

- NRICH developed AtoM site on private network for efficient data collection and collaborative description in January 2016
- NRICH has 13 sub-agencies nationwide
- The archive manager wanted to use AtoM to direct the staff at each center to upload and describe the results of the research project.
- Customized the key parts of AtoM for researchers to use easily.

The screenshot shows the search results page of the National Research Institute of Cultural Heritage (국립문화재연구소) website. The search term '히시오.' was entered, resulting in 18 items found. The results are categorized by language (언어), record type (기록 유형), location (지역), quality (로컬리티), and subject (주제 영역). The first result, '전체 목록' under 언어, has 18 items. The second result, '한국어' under 언어, has 17 items. Under 기록 유형, '전체' has 13 items. The results are displayed in a grid format with images and titles. The categories are: 언어 (언어, 한국어), 기록 유형 (전체, 국가적인), 지역 (지리적으로 하위 지역), 로컬리티 (로컬리티), 주제 영역 (주제 영역).

언어	18
전체 목록	18
한국어	17
기록 유형	13
전체	13
국가적인	13
지역	
지리적으로 하위 지역	
로컬리티	
주제 영역	

검색 결과 18 개
기록보존소
검색 기록보존소

고고연구실
미술문화재연구실

보존과학연구실
복원기술연구실

3. CASE STUDIES

Online Exhibitions of MOWCAP

- In 2017, ACC supported MOWCAP to create a database of inscriptions from the Asia-Pacific (MOWCAP Archive).
- This online exhibition provide a list of World Heritage Sites, introductory texts, and photos from around the world.
- The project was created using Curatescape, Omeka's branch software.

The screenshot shows the homepage of the MOWCAP online exhibition. At the top, there are logos for UNESCO, the Regional Committee for Asia-Pacific (MOWCAP), and AICC (Asia Culture Center). To the right are buttons for 'INSCRIPTIONS' and 'RE'. Below the logos, a search bar contains the word 'Search'. The main content area features a large image of an open book showing traditional Chinese calligraphy. To the right of the image, the text 'Inscriptions: 98' is displayed above a navigation bar with tabs for 'All' (which is underlined), 'Tags', 'Sitewide Search', and 'Inscription Search'. Below the navigation bar, there are two more images: one showing a historical document and another showing a cityscape.

Inscriptions: 98

All Tags Sitewide Search Inscription Search

Chapas Sinica Official Records of Macao during the Qing Dynasty (1693-1886)

A Collection of Images of Time Span

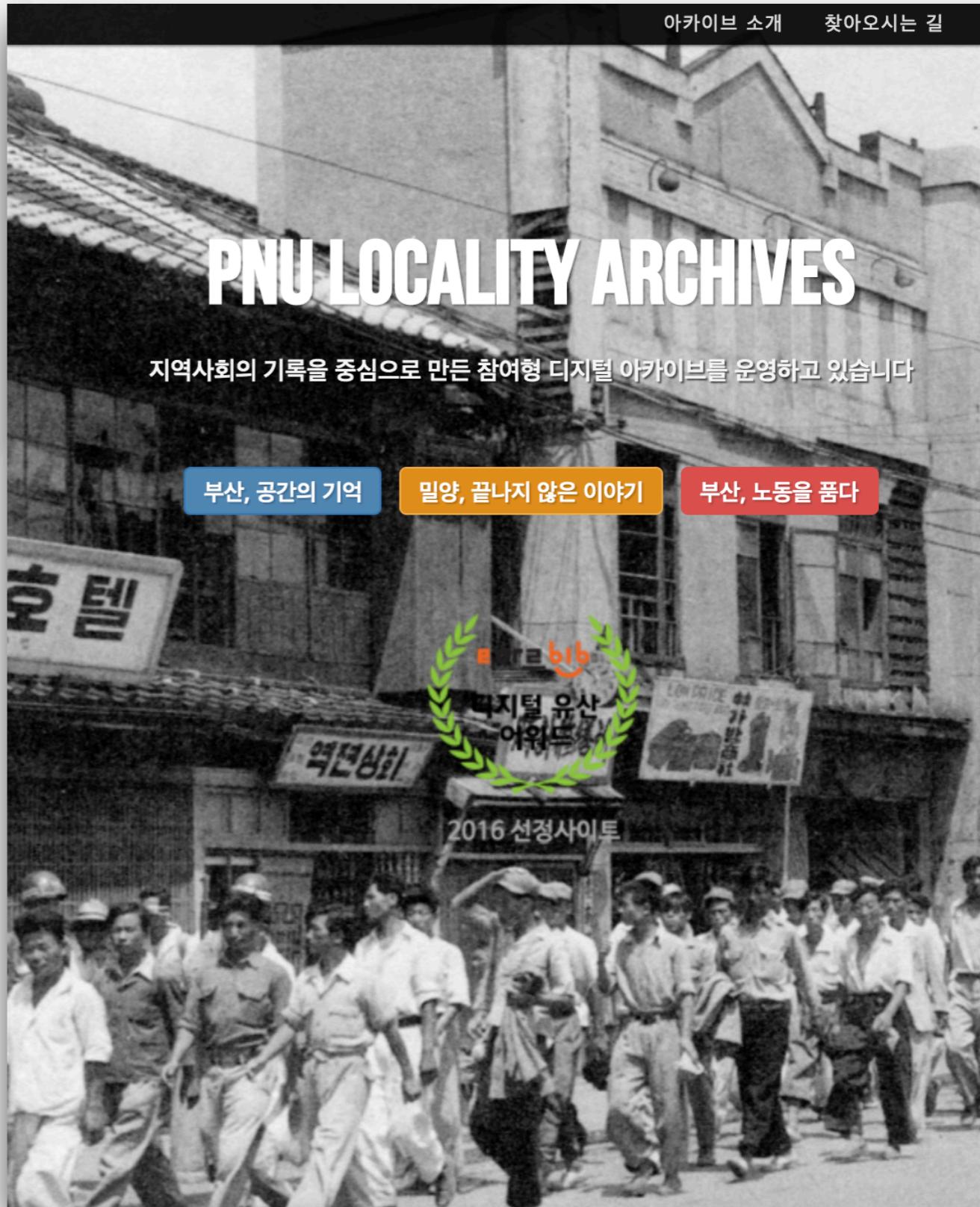
3. CASE STUDIES

PNU Locality Archives

- Pusan National University's locality research team conducted research on the History of Busan Port, the Miryang Struggle Against 765kV Transmission Tower, and the Life History of Busan Workers. The findings and collections of the study were digitally archived.
- The project won the Grand Prize for Public Interest at the 2016 Digital Heritage Awards.



image source : pusan.ac.kr



3. CASE STUDIES

archive.416family.org

- Digital Archive of the April 16, 2014 Sewol sinking disaster
- Revealed the memorial records, artwork, parents' walking march, smartphone applications, etc. of Sewolho sinking deaths
- Won the Netizens Popularity Award at the 2018 Digital Heritage Awards.



image source : dhaward.org

3. CASE STUDIES

QueerArc

- Collect and organize historical, cultural and social records of Korean sexual minorities and provide more than 8,000 cases online
- Restructured the existing homepage-based archive system in Omeka in 2019
- The QueerArc collection features brilliant colors, designs and provocative content.

The screenshot shows the homepage of the QueerArc website. At the top right are links for '로그인' (Login) and '회원가입' (Sign Up). The main header '퀴어락' is displayed above 'Korea QueerArchive'. Below the header is a search bar with the placeholder '검색어를 입력해 주세요' (Please enter your search term) and a button for '추천검색어' (Recommended search terms) which includes '성소수자', '동성애', 'LGBT', '퀴어문화', and '커밍아웃'. A navigation menu at the top includes '기록' (Record), '전시' (Exhibition), '참여' (Participation), '안내' (Information), and '소개' (Introduction). The central content area features a large image of a poster for the '2019 20th SEOUL PINK DOT!' event, with text overlaying it: '최근 기록' (Recent Record), '2019년 제 20회 서울 퀴어파레이드 포스터' (Poster of the 20th Seoul Queer Parade), and 'SEOUL PINK DOT!'. Below this are several circular tags: '#운동', '#트랜스젠더', '#피켓', '#레즈비언', and '#법'. To the right is a thumbnail of a photo from the '2015 제16회 서울퀴어문화축제' (2015 Seoul Queer Culture Festival) with the ID 'PH-0001419' and a caption in Korean. Further down is a section titled '특별전시' (Special Exhibition) featuring a blurred image of a painting with the text '매체에 재현되는 퀴어의 모습' (The representation of queers in media) and 'JEFFREY WRIGHT'.

4. FINDINGS

OSS is Promoting Various Private Archives

- Open source software such as AtoM and Omeka are promoting various private archives.
- By Institution type, the largest number of archives are research institutes, followed by civil society and local governments.
- By subject type, the largest number of archives are community, followed by locality and various subjects
- Overwhelmingly many OSS types are Omeka, with 23

Institution type	Subject	OSS
<ul style="list-style-type: none">● Research Organizations (7)● Civil Society Organizations (5)● Local Governments (5)● Private Foundations (3)● Central Offices (2)● Memorial Projects (1)	<ul style="list-style-type: none">● Community (9)● Locality (7)● Various subject (7)● History of Organization (2)	<ul style="list-style-type: none">● Omeka (23)● AtoM (2)● Curatescape (1)● DSpace (1)

Comparison of Domestic OSS Adoption Types

Quoted from: An Daejin(2019), Myongji University, Ph.D. Thesis

4. FINDINGS

OSS is flexible and extensible (Private Sector)

- AtoM, Omeka's modular structure is suitable for meeting the needs of various institutions
- Provide access function such as Timeline, Geolocation, Contribution, Relation / Visualization, Social Media
- Use external open source such as Google Map, Solr, reCaptcha, Zotero, etc.

Archives	Timeline	Geolocation	Contribution	Relation, Visualization	Social Media
Ministry of Strategy and Finance				◎	
Ministry of Education				◎	
National Research Institute of Cultural Heritage				◎	
Dongdaemun-gu Office		◎	○		○
Seoul North Educational Office	○	◎	◎		○
Gwangmyung-si Lifelong Learning Center Archives	○	○	○		○
Gyonggi-do Memory	◎	◎	○	○	○
Gender Archives	◎	○	◎	◎	○
HMA			○		○
PNU Locality Archives	○	◎	◎		○
Daehan-Micro Archives	◎	◎	◎		
No gun-ri Digital Archives	○	○	○		○
Gongju-hak Archives		◎	◎		○
Incheon-hak Archvies		◎	○		
416 Family			◎		
archive.416family.org	◎	○	◎	◎	○
Ewoo Archives	○	○	○		
Kim & Lee Archives	◎	○	◎	○	
QueerArc	○			○	
Archive Moon	◎	○			
Kara Archives		○	◎	◎	
Utoro Peace Archives	○	○	○	○	
Sunlight Learning Center Archives	○	○		○	
97 Economic Crisis Archives	○			◎	
Gallery Factory Archives					
Total	21	24	26	19	10

4. FINDINGS

OSS and Agile Philosophy are Worth Mentioning (Public Sector)

- AtoM, Omeka, and Archivematica's modular structure, data standards, flexibility and scalability impact public sector archive system development and innovation
- Positive impact on the National Archives, Presidential Archives, and Presidential Secretariat, starting with the Seoul Archives in 2016
- Seoul Metropolitan Archives is developing a flexible system based on cloud and microservices by benchmarking Archivematica and Preservica
- National Archives of Korea (NAK) and Presidential Archives benchmark the flexibility and scalability of OSS ahead of the development of the next generation of AMS.

4. FINDINGS

No Funding, No Ecosystem

- Public institutions lack awareness of using open source software in their work.
- Local governments do not have legal grounds for budgeting or running open source systems.
- Research organizations reliably run digital archives using research budgets and school computer infrastructure.
- Communities and NPOs are struggling with funding and site operations.
- Development funding and site management should be considered when planning digital archive projects.
- A sustainable open source ecosystem should be created. To this end, this requires a large number of active users and companies that deal with OSS. In particular, the archive community should be extended to libraries, museums, etc.

4. FINDINGS

OSS is useful for graduate training

- AtoM and Omeka are used in practice at various graduate schools, history and library information departments.
- Learn advanced practice naturally by using AtoM and Omeka
- Increasing interest in Archivists, not record managers of public records, by creating subject archives
- More than 90% of graduate students in records management in Korea are preparing for the Grade 6 civil service exam.



THANK YOU

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