

Korea's Public Knowledge Information Resource Management Project

***The country's strategy to solidify its competitive power as
information society***

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01 ICT competitiveness

Korea is positioning itself as a very promising country in digital environment

- *Korea has become a country with the world-class broadband employment ratio at the beginning of the 21st century*

World-class ICT infrastructures

■ Broadband penetration ratio

- Broadband penetration of 23.2 subscribers per 100 inhabitants
- Broadband penetration : No.1 worldwide position (2003. June, OECD)

■ Internet Usage Ratio

- 66% of the population (29.9 million people)
- No.3 usage ratio (2003, ITU)

■ Mobile phones penetration ratio

- 73% of the population (33.6 million people)



1. Vision and Objectives

Vision

- *Foundation Creational Knowledge based Country*

Objectives

- Digitalizing public Knowledge information
- Building the Electronic information sharing system which connect with the various Knowledge information resources

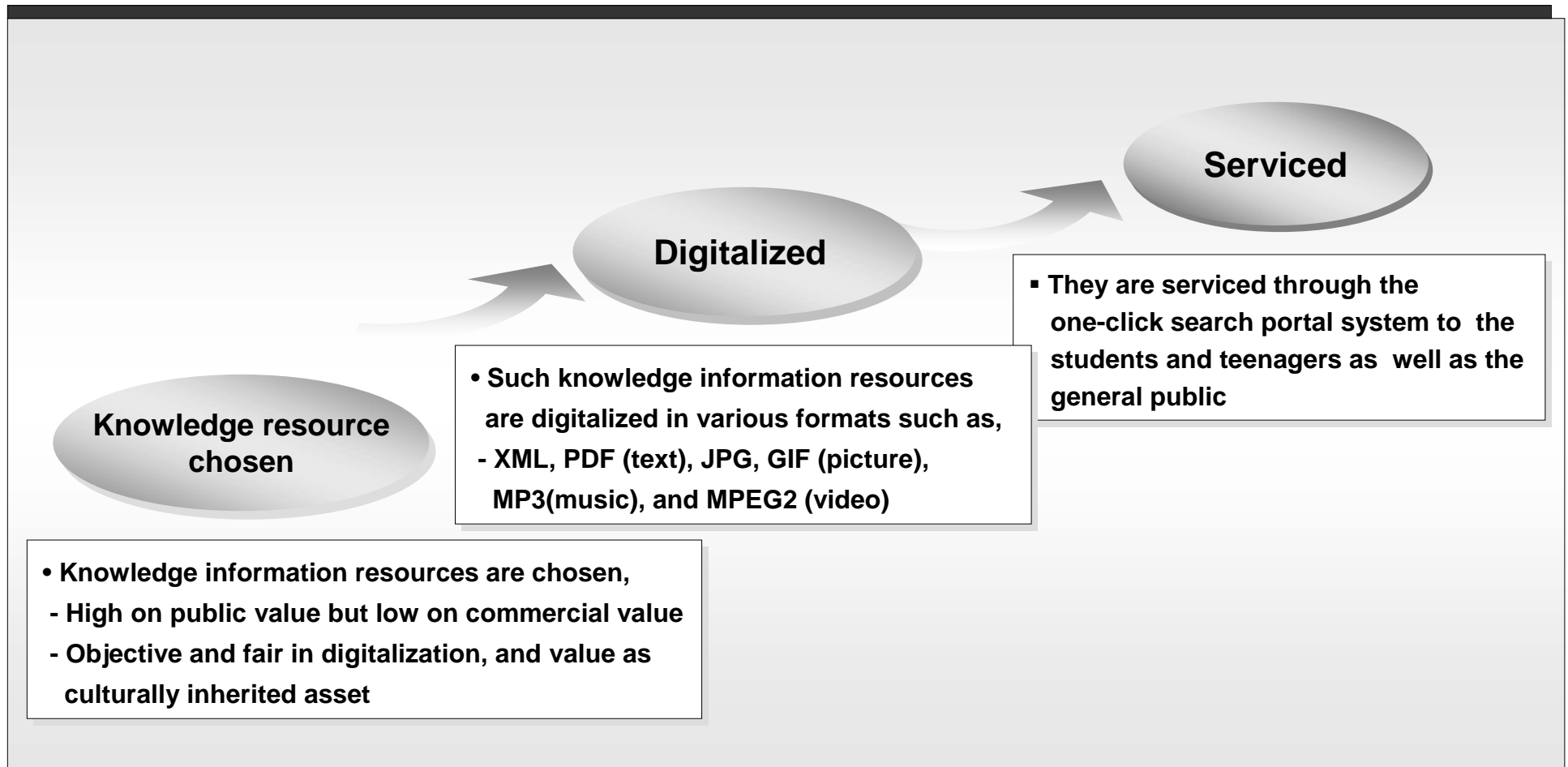
What's the public information knowledge ?

- Every Knowledge resource that is publicly worth of being preserved and useful, regardless of creation location and storage medium
- Information Strategically important to be preserved for the country, while also it is easily available to the people



02 Project Overview

2. Project management process



3. Law and Master plan

- *For the nation-wide systematic management of the knowledge information resources and creation of added values*

Basic Act

- **Public knowledge information resources Management Act**
(Established in 2000 Jan)

Master Plan

- **Master Plan for Public knowledge information resources Management**(Established in 2000 Sep)

Major action items based on these basic plans

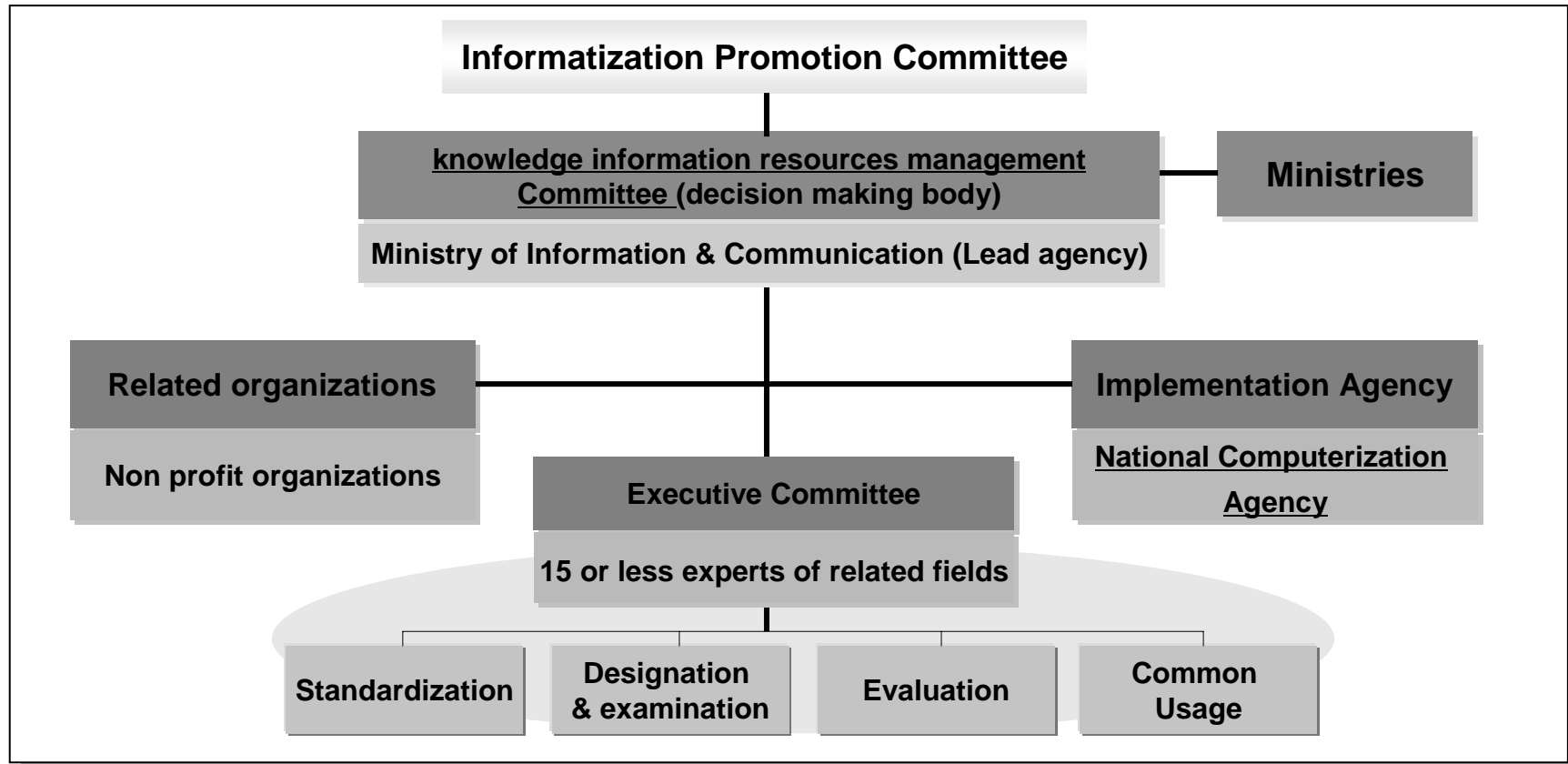
- Substantial Enrichment of Digital knowledge information resources
- Activation of knowledge information resources distribution
- Consolidation of knowledge information resources management system
- Consolidation of laws and systems to convert to knowledge information based society
- Promotion of standardization and technology development for digitization



02 Project Overview

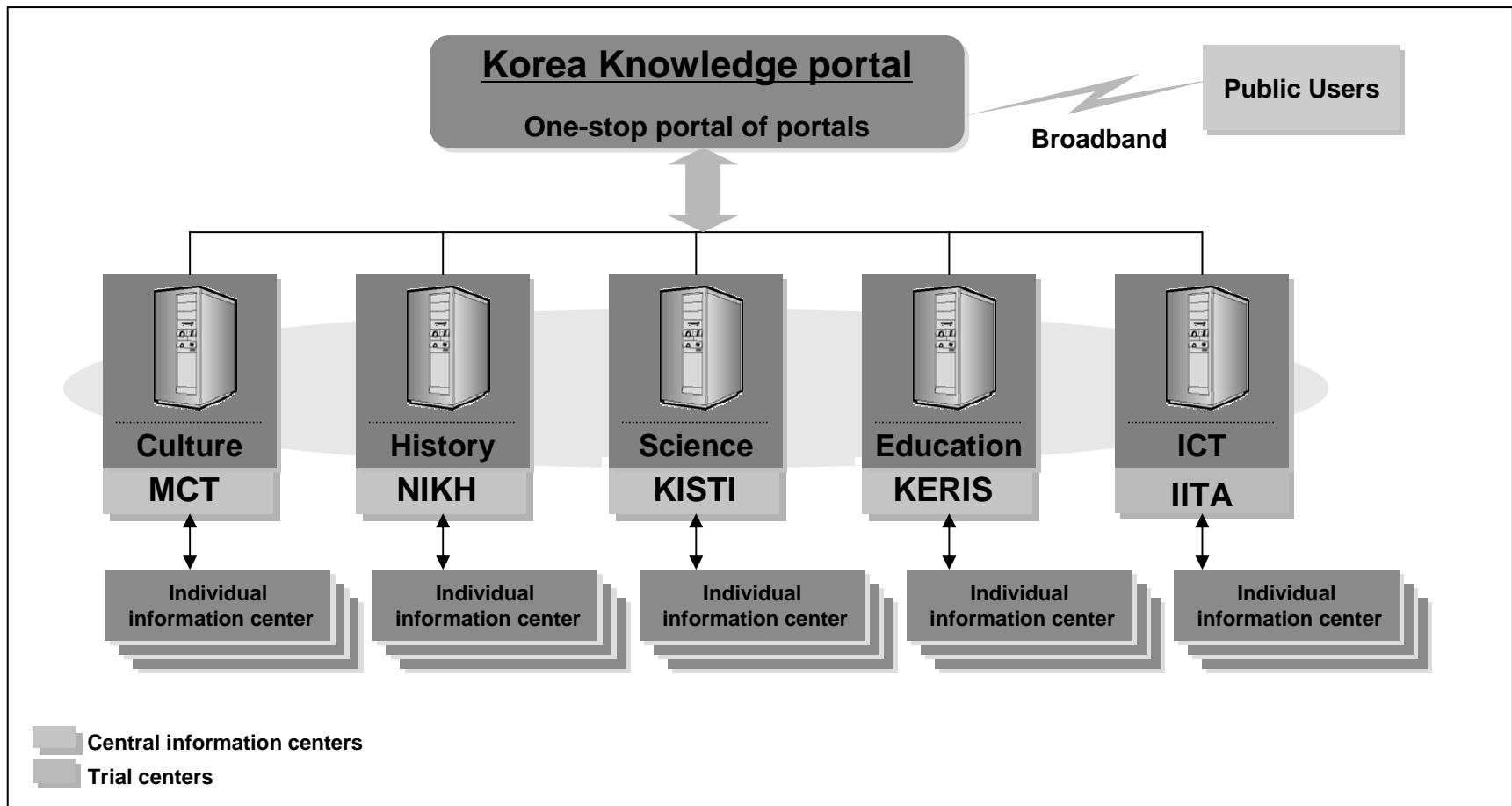
4. Organization of promotion system

Organization involved in public knowledge information resources management



02 Project Overview

5. Distribution of knowledge information resource



02 Project Overview

6. Related Organizations & DB volume of each fields

- *Knowledge information resources, that are recognized as publicly valuable to be preserved and useful, or in needs of digitalization, are constructed into DB*

(end of 2003)

Category		Related Operation Organizations	No. of Related Organizations	Related DB Volume (case)
Science & Technology		Korea Institute of Science and Technology Information	19	71,311,213
Education & Academy		Korea Education & Research Information Service	388	110,180,074
Culture	Culture & Art	Korea Culture Information Service	23	918,446
	Cultural Heritage	Cultural Properties Administration	35	556,872
History		National Institute of Korean History	4	1,930,449
ICT		Institute of Information Technology Assessment	42	5,126,630
Industry		Korea Institute for Industrial Economics and Trade	24	2,124,023
Construction Engineering		Korea Institute of Construction Technology	6	2,624,520
Maritime & Fisheries		Ministry of Maritime Affairs and Fisheries	4	493,900
Total			545	195,266,127



03 Automatic creation and distribution system

- *Distribution of automatic creation and distribution system for effective digitalization of knowledge information resources*

Automatic creation and distribution system

- As a way to enhance effective distribution of knowledge information resources
- In this system,
 - creator of knowledge information can directly input metadata information
 - register the created electronic file to the system
 - the system automatically converts file and then this file is stored and distributed online so that users can easily use it
- Digitization cost would be greatly reduced
- Use of the resource would also become much more smooth and frequent

Provision of Automatic Creation/distribution System

(Unit:Case)

Field	Culture	Education & Science	ICT	Industry & Construction	Total
2000~2002	58	18	-	-	76
2003	26	8	10	1	45
2004	10	17	20	29	76
Total	94	43	30	30	197

Source : National Computerization Agency



04 Digital content identification scheme

Korea has developed its own digital contents identification scheme 'UCI (Universal Content Identifier)' in 2003

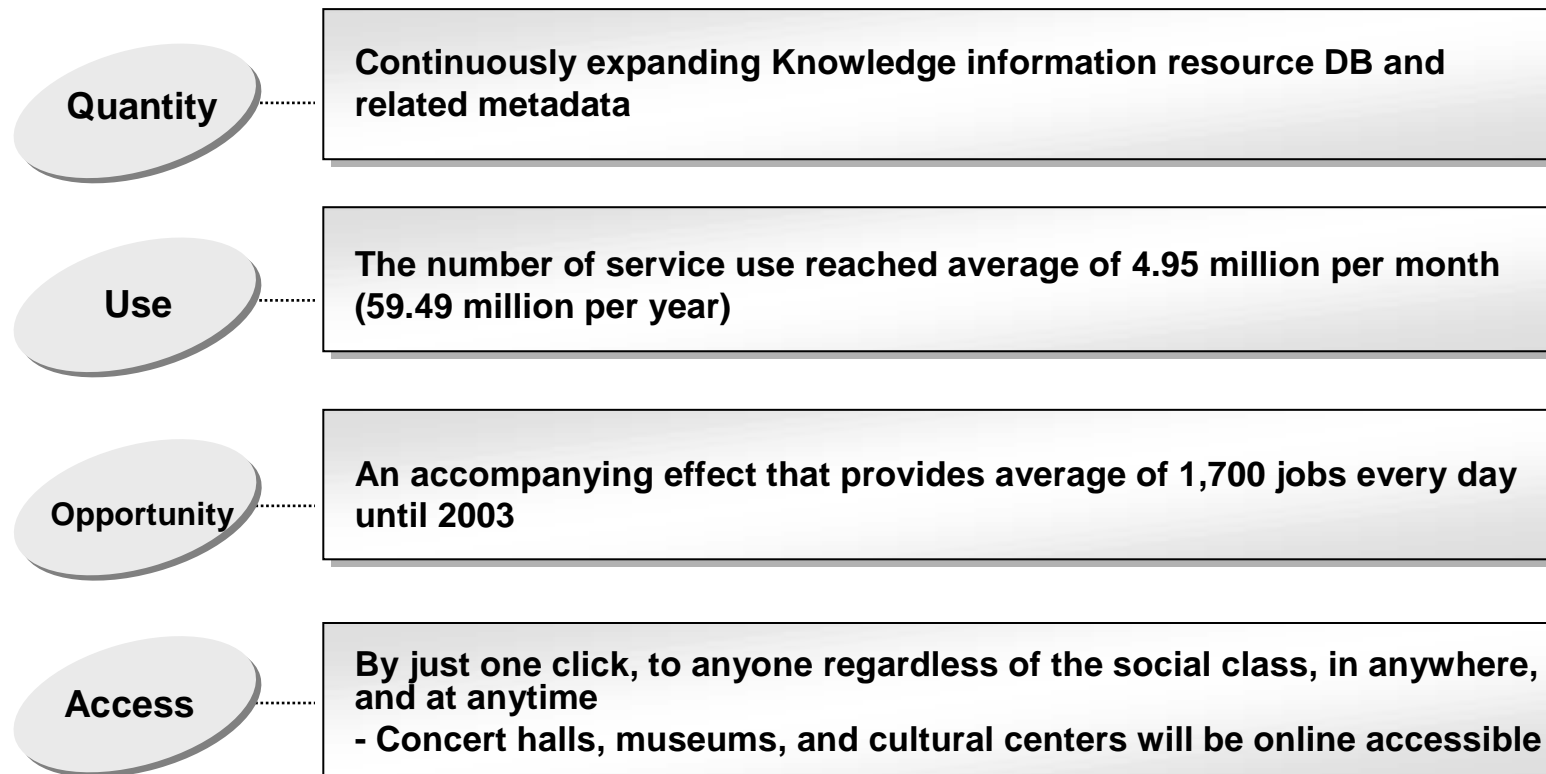
- As means to effectively identify and manage the ever expanding internet resources
- Korea is investigating diverse research and utilization models of digital contents identification scheme
- The UCI scheme laid out the foundation for digital contents management and distribution
- Standardization of UCI in progress through TTA in Korea, and IETF internationally
- Activity to register UCI as the namespace in IANA (Internet Assigned Numbers Authority) is also in progress



05 Effect of Utilization

Knowledge information resources management and the effect of its utilization

- *Since 2000, Korea has been building huge DB of verified and valuable public knowledge information resources, through the public knowledge information resource project, and they have been continuously serviced online through the internet*



More strategic and user friendly future promotion direction

- **Goals of phase 2 of the project (from 2005 to 2009)**
 - **To further develop the already laid-out foundation of the resource DB**
 - **Maximize the active usage of knowledge information resources**

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 - **public and private knowledge information resources DB**
 - **Being connected and various ways to provide more updated knowledge information resource DB to the people are being devised**

.....
 - **In the second half of 2004, 2nd phase of 'knowledge information resource management master plan (2005~2009)' is being established**
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Thank you
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Mission

- NCA is a leading agency for national informatization of Korea**
- NCA takes full responsibility of the project and executes/supports the individual action items as well as overall management of the public knowledge information resources**
 - **Development and maintenance of portal system for one-click search of the knowledge information resources**
 - **Investigation of the practical cases where the standards are applied Supporting the evaluation of knowledge information resources management in the real world**



Mission

□ Knowledge information resources management Committee

- The 'knowledge information resources Management Committee' (chair: head of ministry of information and communication),
 - annually examines and passes the formal execution plan and decides on each year's action items

