

Preserving and Disseminating Asian Cultures
with the Digital Library Technologies

ASIA

ulture



中国国家图书馆 · 中国国家数字图书馆

NATIONAL LIBRARY OF CHINA NATIONAL DIGITAL LIBRARY OF CHINA

Asian culture has a long history. Libraries in Asian countries have abundant precious collections. In this digital network time, how to make use of the advanced advantages of digital library, so as to make Asian culture be preserved long and disseminated effectively? This is a question worth for librarians of our time to research and explore.



Outline

- Digital library construction plays roles.
 - Aim and general design of NDLC
 - Developing plan of NDLC
 - Digital preservation and utilization

- Suggestions
 - Metadata integration and cross-language search
 - Resource demonstration
 - Long term preservation and inherit



NLC started construction of National Digital Library of China (NDLC) project from 2005. Based on the principle of offering service along with construction, we provide public service with the periodical achievements of project construction actively, achieved better social profit and cultural profit, ultimately upgraded information service level to the public of NLC, and preserved excellent Chinese culture resources with advanced digital storage technology.



➤ Aim and general design of NDLC project

In NDLC project, we drew lessons from construction and development experiences of world digital libraries, and combined with actual situation of China's library development.

Aim of NDLC Project

making NDLC the largest Chinese digital information preserving base and servicing base;

making NDLC an important information infrastructure in China.

General Design of NDLC Project

offer service and carry on the project, forming the four important objects of NDLC project general design in the end, i.e. service, resource, standard and technology, and forming the organic integrity of NDLC.



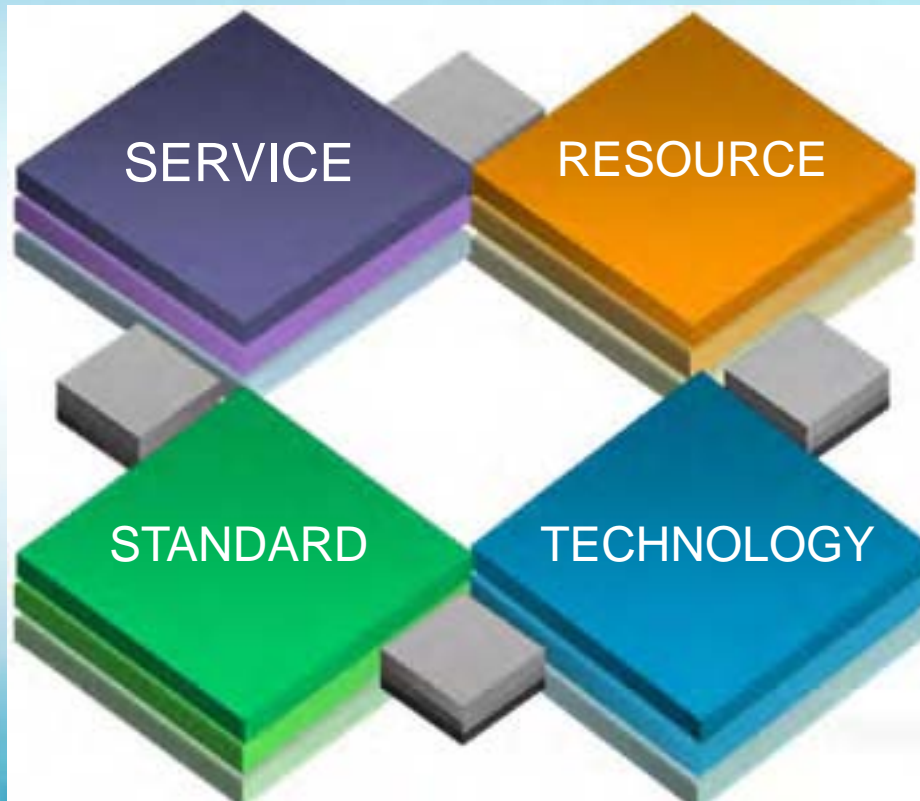
➤ Aim and general design of NDLC project

Meanwhile, according to function positioning of NDLC and development trend of information technology, we offer service and carry on the project, with full consideration of software, hardware, resources and standard, forming the four important objects of NDLC project general design in the end, i.e. SERVICE, RESOURCE, STANDARD and TECHNOLOGY, and forming the organic integrity of NDLC.



- Expanding service channel
- Expanding service scope
- Deepening service content
- Upgrade service quality

- Process
- Describe
- Organize
- Service
- Inter-operation



- Constructing organization
- Sharing service
- Permanently preserving

- Compatibility
- Interoperability
- Openness
- Reusability

Fig. 1 General Design Objects of NDLC



➤ Developing plan of NDLC:



➤ Developing plan of NDLC:

Opening, Cooperating, Sharing and innovating

With construction of

one repository

one network

three platforms

we forge a new public culture service form based on new media



With construction of resource construction centre, resource preservation centre and resource service centre constructing distributed public culture resource repository, forming a digital library virtual network with nationwide coverage, and constructing excellent Chinese culture centralized demonstration platform, open information service platform, and international communication platform for promotion of Chinese culture, all of which cover the nation and the world;



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Opening, Cooperating, Sharing and Innovating

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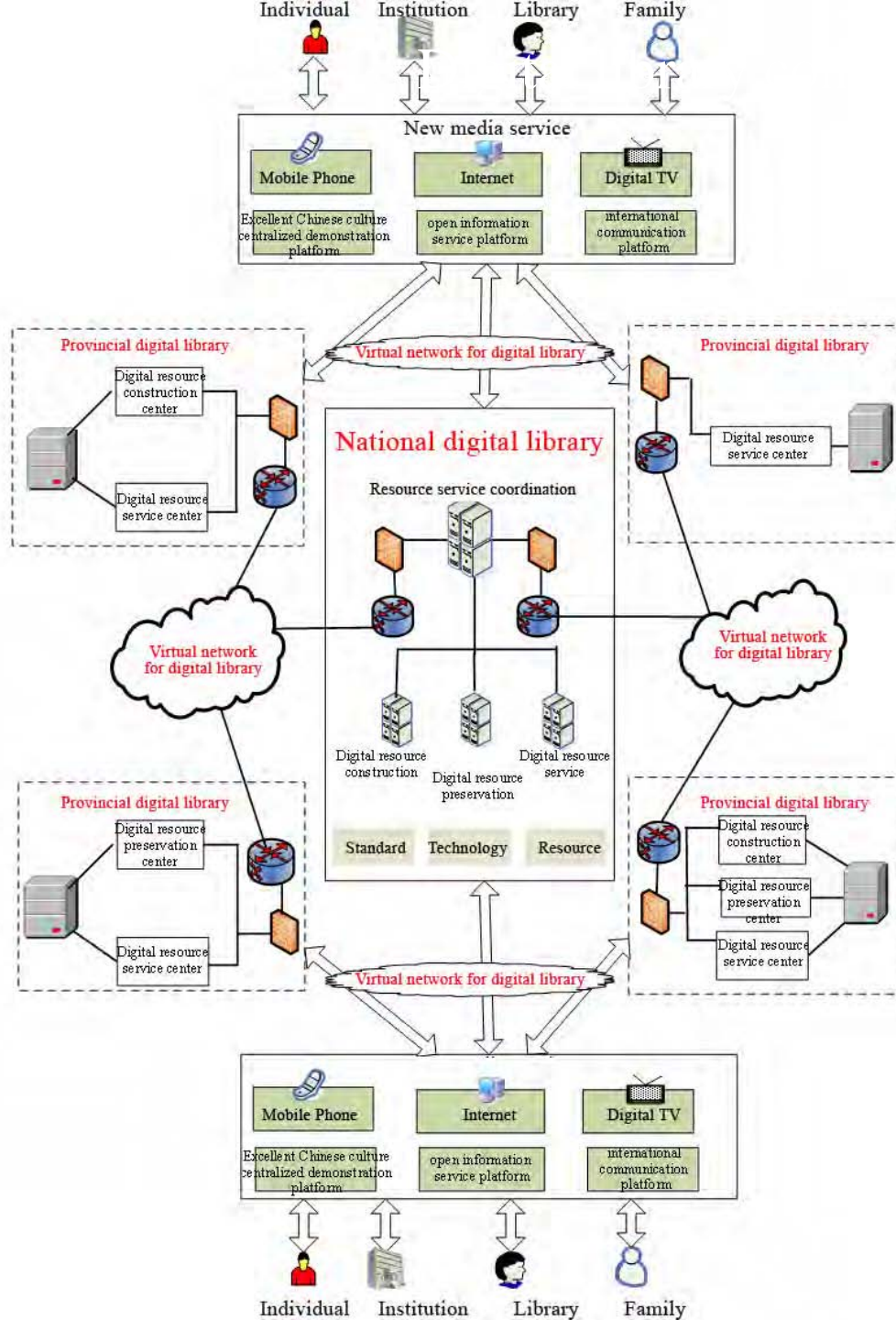
three platforms

we forge a new public culture service form based on new media



With new media of mobile phone, digital TV, mobile TV and SNS, by way of internet, mobile communication network and Broadcast and TV network, offering the public with digital library service of personalization, diversification and all-media, forming a new public culture service form based on new media.





➤ Digital preservation and utilization of overseas Chinese documents

In construction of NDLC, we actively communicate and cooperate with digital libraries home and abroad, getting some achievements in digital resource contents and system inter-operation.

Cooperated with Harvard University Library and other foreign libraries, NLC carried out digital preservation and utilization of abroad Chinese documents.



Digitalization project of ancient collections in Harvard-Yenching Library is a document digitalization project of largest scale and longest period for NLC in international cooperation history, planning to jointly develop 51,889 volumes (4,210 titles) of ancient Chinese rare books in Harvard-Yenching Library in 6 years.

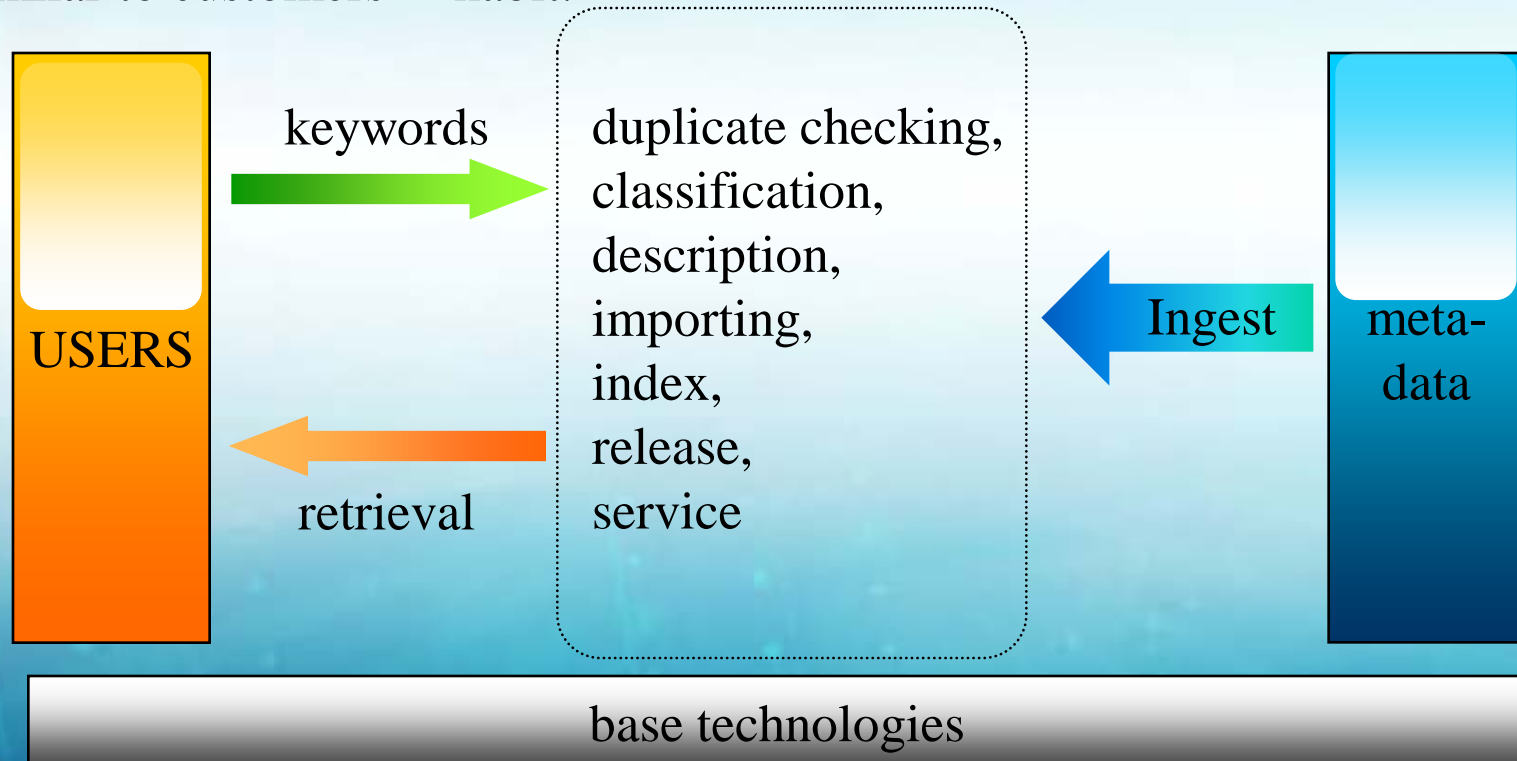


Based on the present construction situation of CJKDL, in consideration of the goal of jointly realizing permanent preservation and wide spreading of Asian culture, and enhancing self confidence and culture identity of Asian people, I suggest, in future digital library cooperation, that we should take into account of the following requirements.



➤ Strengthening metadata integration, and providing uniform cross-language searching service.

- ❑ To make more customers utilize digital library resource with more simple and effective retrieval, we must establish a one-stop retrieval system which is similar to customers' habit.



➤ Constructing resource demonstration platform and expanding culture disseminating channels.

➤with coverage of mobile communication network in all the countries, we build mobile digital library, digital TV service, children digital library service, accessibility digital library service, and virtual family digital library service, forming a digital library service system with coverage of China, Japan and Korea, and providing digital library service of personalization, diversification and all-media.

➤We can also adopt web2.0 technologies, such as blog, RSS, SNS and instant communication, etc., to build an inter-communication platform between customers, customer and library, and libraries, expanding multi-culture disseminating channels.



- Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.



Mr. Liu Guojun from China library community said, book collection has a long history in China.



➤ Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.



Zhou Dynasty



Han Dynasty

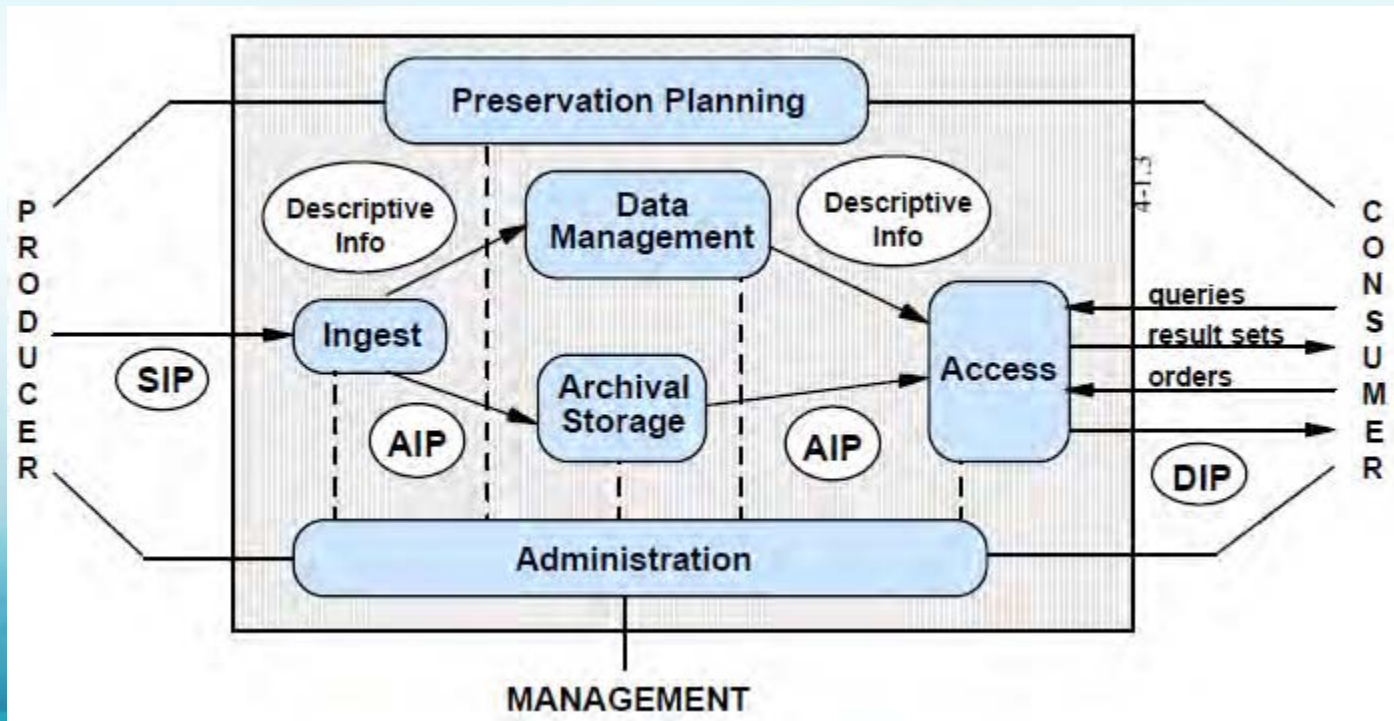


Qing Dynasty



➤ Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.

Another important issue to consider in construction of CJKDL is permanent preservation of resources.



➤ Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.

Another important issue to consider in construction of CJKDL is permanent preservation of resources.

For permanent preservation of digital resources, to preserve bits or bytes of digital objects is far from enough. To understand and utilize digital information for a further long period, it is very necessary to preserve the technical and environmental information of establishing and utilizing of digital objects.



➤ Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.

WE CAN:

take METS as structure metadata standard

take PREMIS Preservation metadata dictionary for preserving metadata



➤ Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.

WE ARE SURE:

with cooperation among China, Japan and Korea digital libraries, we can realize appropriate carding and conclusion of existing technologies, and can also make effective exploration of cooperative management mode among libraries in permanent preservation, solving common issues in digital resource archives and permanent preservation, functioning the roles of Service Base of Inheriting Asian Culture, and undertaking the responsibility of permanent preservation of Asian culture and serving people worldwide.



- Strengthening construction of permanent preservation system, and realizing effectively inheriting of Asian culture.



Just as described in *IFLA Manifesto for Digital Libraries* constituted in 2005 by IFLA, by content digitalization and service networking, digital library can effectively break time and space limitation, eliminating or decreasing information gap, and supporting effective use and preservation of mankind culture and science heritage. And this is just the purpose for jointly constructing Asian culture digital resources.

We are sure, that with promotion of communication and cooperation among Asian libraries by digital library construction, we will realize this purpose at last.



Thank You!



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