

A Case Study of the Regional Digital Library Development in China

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Introduction

- The libraries in China may be categorized into three types based on their superior government agencies or affiliated institutions.
 - Public libraries: the cultural administrations
 - Academic and school libraries: the educational administrations
 - Special libraries: the sci-tech administrations
- Their funding sources are largely allocated by different government agencies at the central or local levels, respectively.

■ For the past 10 years, dozens of digital library projects have been implemented in China, and they have been led and sponsored by different government agencies based on their administrative systems. The funds and the digital products of the DL projects are usually shared only within a type of the libraries.

National projects

- The Ministry of Education: CALIS, CADAL...
- The Ministry of Culture: Digital Library of China, National Culture Information Resources Sharing Project...
- The Ministry of Science and Technology: NSTL...

In Zhejiang Province

- Department of Education: ZADL (Zhejiang Academic Digital Library)
- Department of Culture: ZJDL (Zhejiang Digital Library)
- Department of Science and Technology: ZDLS (Zhejiang Digital Library of Science)

As a result, the mass digitization of print collections, the purchase of commercial databases and the software development in the different DL projects have serious duplications, and the resources are not reasonably shared among the different types of libraries, either at the national or local levels.

However, the development of NingBo Digital Library (NBDL) has not followed the ways of the national or provincial digital library projects. In order to avoid the duplications and to promote the resource sharing, NBDL is sponsored by the city government and carried out by the different types of libraries, including the public, academic, school, special libraries around the city.

About Ningbo City

■ Ningbo, neighboring Shanghai and Hangzhou, is located in the east of Zhejing Province, in the middle part of China's coastline. It covers an area of 9,816 sq. km on land with a population of 5.7 million. The urban area covers 2,462 sq.km, with a population of 2.2 million.

Map of Zhejiang Province





Map of Ningbo

- Ningbo is an important industrial and port city on the southeastern coast of China. It is one of the most promising cities in China as appraised by the United Nations. In 2006, the urban competitive power of Ningbo ranks 6th among China's inland cities.
- The per capita GDP was \$10079 in the year of 2008.

The government's role in the regional DL development

The city government decided to build a regional digital library in 2007 and the five government agencies, Bureau of Education, Bureau of Culture, Bureau of Science & Technology, Bureau of Development and Reform, and Bureau of Finance, jointly formed a leading group for the project called Ningbo Digital Library (NBDL). Ningbo Municipal Government allocates RMB40 million yuan (\$5.85 million) to the first phase (2007-2010) of the project.

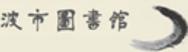
The partners of NBDL

There are 18 individual libraries, including 16 academic and school libraries, 1 public library system (the city library and the subordinate public libraries at county and community levels) and 1 special library (the city information institute) join the project.





寧波市圖書館































宁波天一职业技术学院

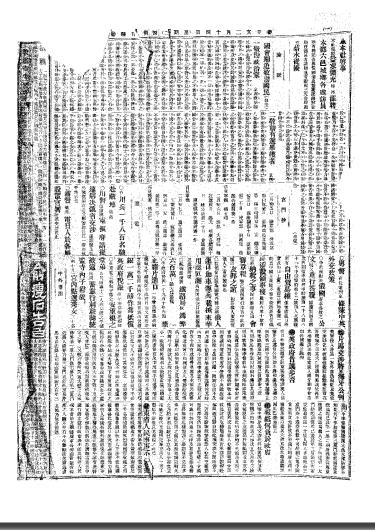
The goal of NBDL

The goal of the project is to digitize the local cultural, sci-tech, industrial and educational resources, integrate the born digital materials of the participating institutions and local enterprises, develop several special databases with local characteristics, establish a unified portal and serve the local industries, education and research institutions, and the citizens as well.

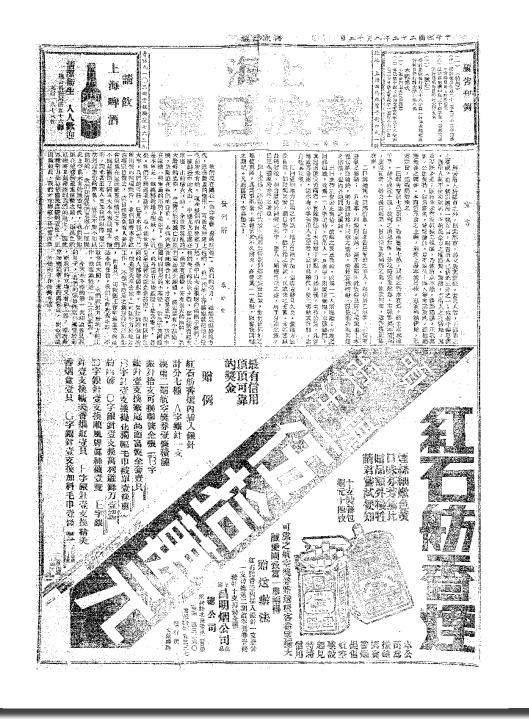
The progress of NBDL

- Digitizing the local resources
- Collecting the born digital materials for the local industries.
- Purchasing the licenses of commercial databases
- Integrating the resources of the member institutions.
- Providing digital service via the NBDL portal.

Digitizing local resources --Old local newspapers







Old local books (Chorography)

民為質的東販西貿貌是神非徒為新政肸飾而已故其進也顛顛而動者感國際動嚮民衆要求而有偽立憲之籌備自是以還民氣旣動地方之政教自不能仍如昔日之泥執成法推動進展稍稍見其端矣然其實之政教自不能仍如昔日之泥執成法推動進展稍稍見其端矣然其實之政教自不能仍如昔日之泥執成法推動進展稍稍見其端矣然其實志於政教一門除制度外無事實可紀即有之亦略而不詳自淸季柄政志於政教一門除制度外無事實可紀即有之亦略而不詳自淸季柄政 其前例使一代重大之行政及教化事務幾乎



Local paintings



Collecting the born digital materials for the local industries

- Textile and garment: the largest production base of business suits and shirts.
- Port and logistics: the second largest port in China
- Machinery and mould







Integration of the resources

- In order to reveal the collections of all the member institutions at a unified portal, the metadata of them are harvested and converged.
- Until now, 176 million metadata of the 18 member institutions have been harvested and integrated into the portal of NBDL.

Metadata harvested from the 18 members of NBDL

Type of Resources	Number of metadata (thousand)
Journal papers	121718
Books	5515
Dissertations and theses	2485
Conference papers	5414
Newspapers	25101
Standard material	750
Patent material	15441
Video and audio	233
Total	176,657



NBDL portal

- NBDL introduced the SuperStar Company to develop a portal.
- In March 2009, the NBDL portal (http://www.nbdl.gov.cn/) began to open to the local users.

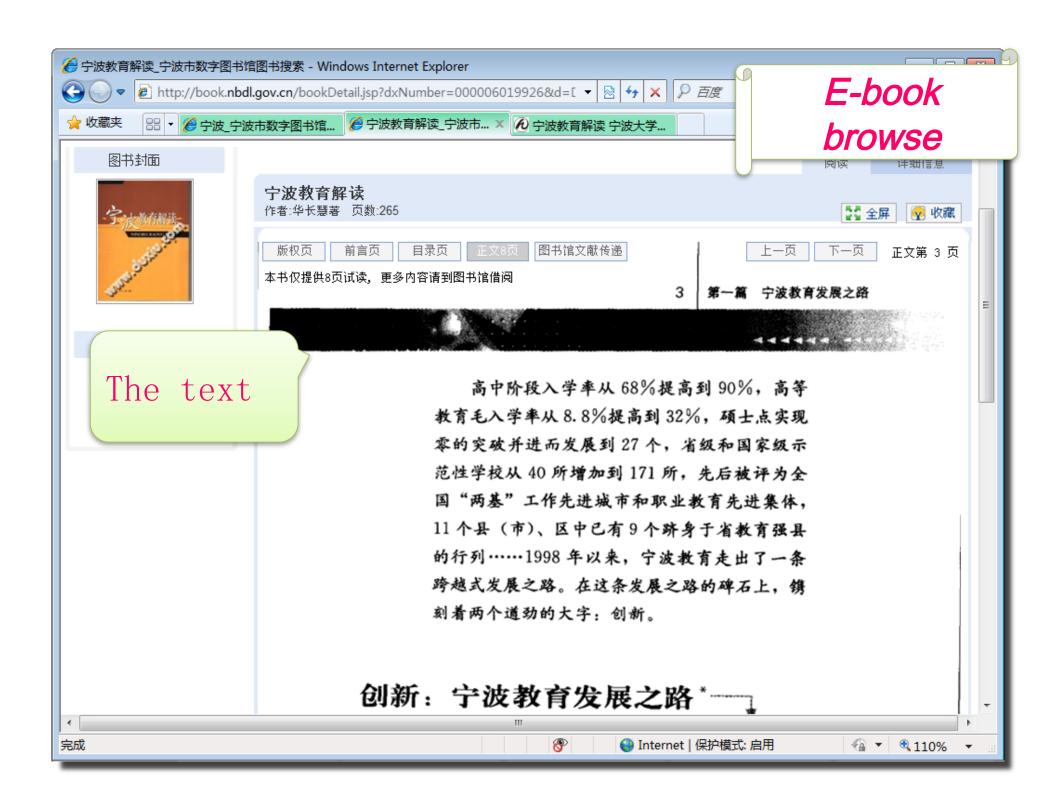






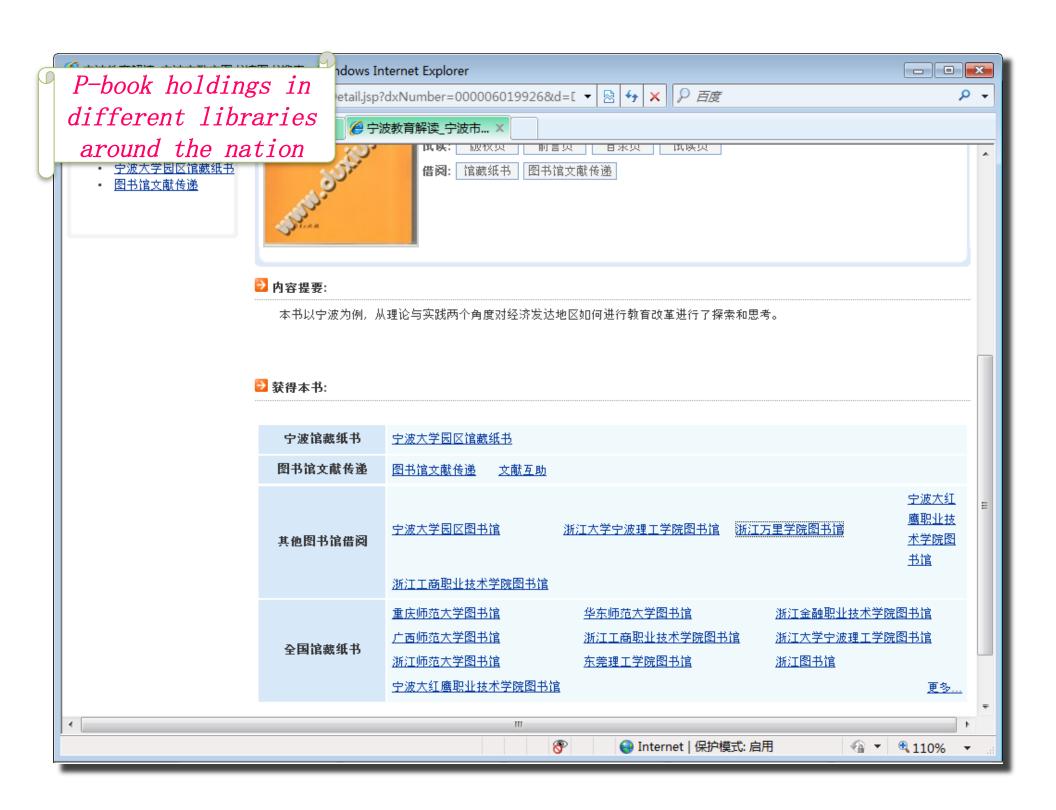












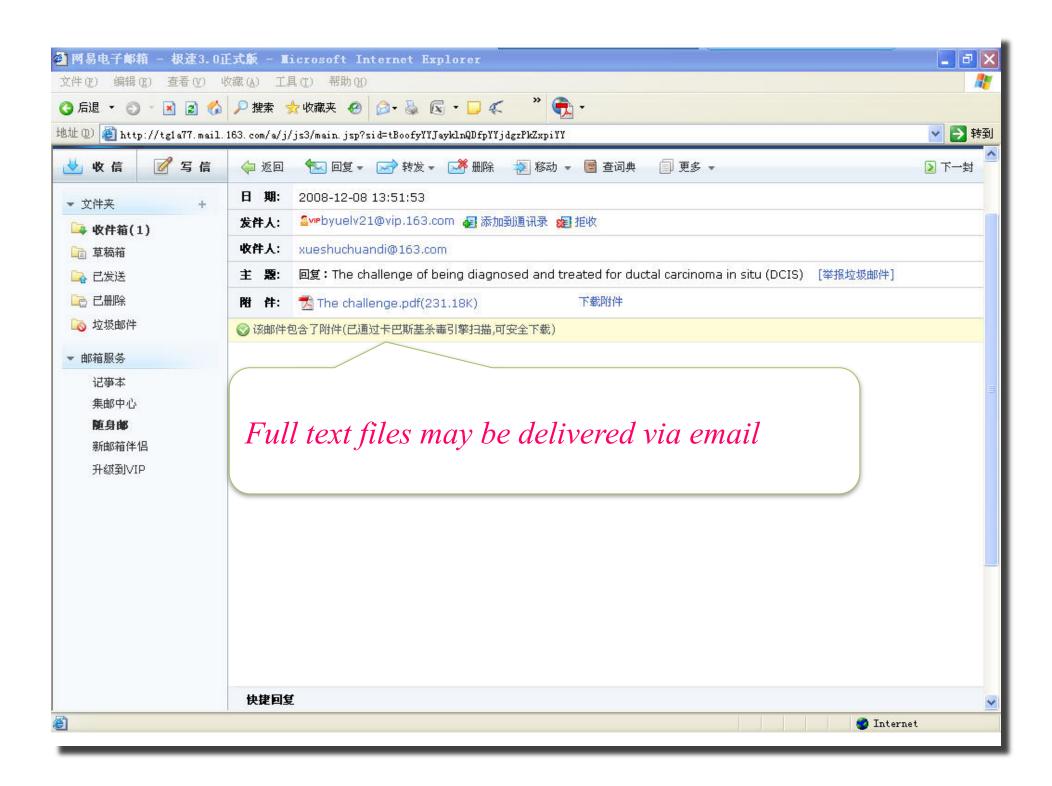






Document delivery may be carried out by the participant libraries via emails to the users who cannot directly download the full-test files of databases outside the campuses.





- From March to Oct 2009, the NBDL portal has been viewed by 150 thousand person times, 1.7 million full-text documents downloaded by the users around the city, and 167 thousand papers delivered to the patrons by the librarians of the member institutions.
- The success of NBDL has facilitated the regional DL development around China.





- 云南省文献资源 共享与服务平台
- 使西省文献资源其季与服务平台

四川省数字图书馆网上知识门户

- 广西文献资源 共享与服务平台
- 三 兰州地区文献资源 共享与服务平台
- 5 郑州北区文献资源 共享与服务平台

TALIS 文献信息网 (城用版)

湖南省文献资源 共享与服务平台

海南省教育科研数字图书馆

内蒙古区域数字图书馆

贵州省区域图书馆

ā 大连地区文献资源 共享与服务平台

高 沈阳地区文献资源 共享与服务平台

Conclusion

- The development of regional digital libraries has avoided the duplications of digitizing the library collections and promoted resources sharing among different types of libraries.
- In China, the rise of regional digital libraries is changing the way for the past decade that individual government agencies dominated the digital library development within its administrative systems, and the provincial or city level digital library projects will be the mainstream of the future development.

Thank you and welcome to ZJUNIT!

