

Current Conditions and Future Prospects of National Central Library's Efforts to Archive, Manage, and Provide Service for Digital Resources in Taiwan

## 國家圖書館 曾淑賢館

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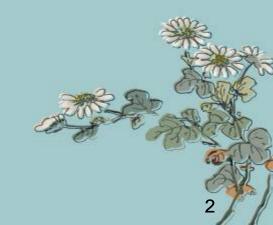


October 17, 2011





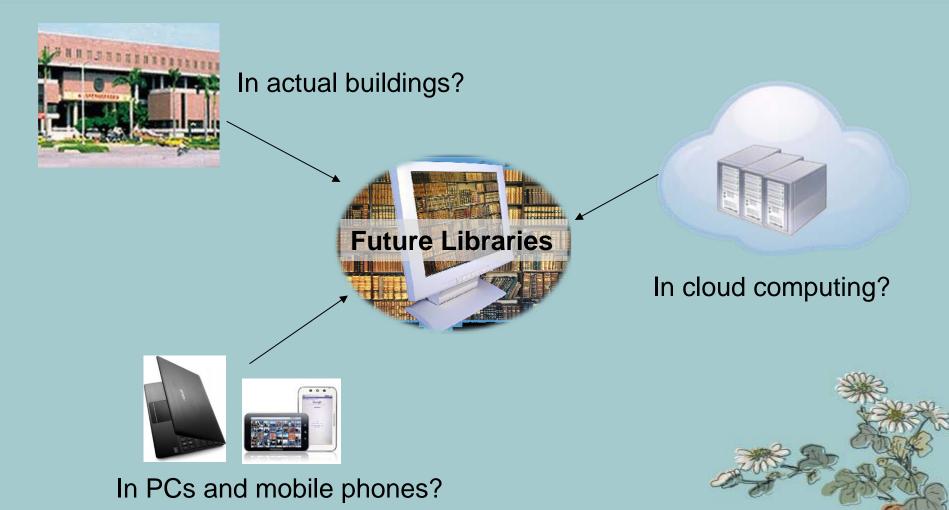
- Introduction
- National Central Library's Roles and Missions
- NCL's Efforts to Archive and Manage Digital Resources in Taiwan.
- NCL's Efforts to Provide Digital Resource Services
- Future Prospects
- Conclusion











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# 國家圖書館的角色與任務 National Central Library's Roles and Missions







### 國家圖書館的角色與任務(1) National Central Library's Roles and Missions

- NCL's legal roles and missions
  - preserve & disseminate national culture
  - permanently archive publications nationwide
  - provide a national composite database
  - catalogue materials
  - promote scholarship
  - engage in international cooperative projects





國家圖書館的角色與任務(2) National Central Library's Roles and Missions

- Advances in digital and internet technology has changes libraries' traditional functions
  - Library holdings: preservation of civilization changed from paper to digital
    - Diversified archived media types
    - Digitization of rare collections
    - The rise of e-books



## 國家圖書館的角色與任務(3) National Central Library's Roles and Missions

- Service models: passive library-centered to active, personalized interned-based
  - Service not limited by time and space
  - E-reading increasingly popular
- Information services: traditional catalogs and indices to digital content
  - Readers need diverse information
  - Librarians' professionalism must increase
  - Bibliographic service going digital



#### 圖家圖書館在臺灣數位資源典藏管理之努力 NCL's Efforts to Archive and Manage Digital Resources in Taiwan





#### 圖家圖書館在臺灣數位資源典藏管理之努力NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- Established a National Catalog and Database of Theses and Dissertations
- Established a National System for Public Use of Scholarly Journals
- Established a Webpage Archival and Management System for Taiwan
- Created an E-Publication Platform System
- Enhanced the Library's Digitization of Holdings and Value-Added Services



### 圖家圖書館在臺灣數位資源典藏管理之努力(1) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- National Catalog of Theses and Dissertations
  - 1970: A Catalog of Chinese Dissertations and Theses
  - 1998: searchable web-based version available
  - 2004: new version released with more functionality
  - 2010: National Digital Library of Theses and Dissertations in Taiwan
    - Improved knowledge management capabilities
    - Step closer to virtual expert system for theses & dissertations
    - Provides more sharing and open access
  - Abstracts: 647,819, with 197,048 open access full texts.
     (one-third of total)
  - 62 schools create file online; 10 use cloud computing system

#### 圖家圖書館在臺灣數位資源典藏管理之努力(2) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

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Search Title Author Advisor ODC Keyword Abstract Reference All ield Search Type: OPrecision Fuzzy Ozhu yin OHanyu Pinyin OTongyong Pinyin	FullText Authorization Most Cited Most Hit Most Downloaded 98 97 96 95 Past Years Graduated Academic Year				
uxiliary Search: Simplified To Traditional Latin language	No.	Institution Name	Total		
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Yesterday Last week Over the past 014 days Last mouth Last half year Last	2	國立臺灣大學	20181		
Year Past Years	3	國立政治大學	18745		
FMEA food science	4 8	國立成功大學	18425		
	5	國立高雄師範大學	16897		
Latest News Rss			More		

### 圖家圖書館在臺灣數位資源典藏管理之努力(3) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- National System for Public Use of Scholarly Journals
  - 1970: published Chinese Periodical Index
  - 1993: Online Chinese Periodic Index Search System added
  - 1998: distance users able to access systems
  - 2005: systems combined into Chinese Periodical Content Index System
  - 2010: renamed Index to Taiwan Periodical Literature System
    - Seeks open access rights from individual authors
    - Increased use and citations of articles
    - Passes on culture, thought, and techniques of our civilization
  - 1,375,861 articles, 23,688,978 scanned images, with 10,497,565 users from Jan to Aug 2011

#### 圖家圖書館在臺灣數位資源典藏管理之努力(4) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

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	ath  NewsInfo Links Related
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Introduction C Searching Service C Journal Browsing C	Basic Search     Advanced Search     Nature Language Search     Command Search       Find
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### 圖家圖書館在臺灣數位資源典藏管理之努力(5) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- Webpage Archival and Management System for Taiwan
  - 2007: initial archival system created
  - 2008: expanded into Web Archive Taiwan
    - In June 2011 over 4,400 sites already archived
    - Scope includes websites from government, education, and research institutions
    - Archived content includes static pages (html, asp, aspx), attachments (doc, pdf, ppt, xls), and audiovideo files



#### 圖家圖書館在臺灣數位資源典藏管理之努力(6) NCL's Efforts to Archive and Manage Digital Resources in Taiwan





#### O Our Web Archive

Latest Hotest

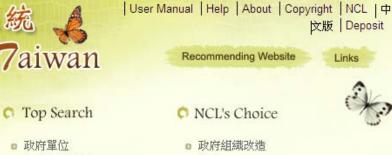


樹林市公所全球資訊網



臺中市政府全球資訊網





核能

- 0 地震
- 中華民國建國一百

#### Featured Collections

• 中華民國臺灣

教育改革

综合



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Archived Information O Archived File Type

#### Featured Collections

Home Site Map News FAQ Contact US

Links



<圖片>政府組織改造 行政院組織法將自中華民國101....



### 圖家圖書館在臺灣數位資源典藏管理之努力(7) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- E-Publication Platform System
  - Policies and Action Plan for Development of the Digital Publishing Industry: NCL's tasks
    - authorized to assign ISBNs for digital publications
    - became responsible for permanent archival of publications
    - became responsible for increasing e-reading population
  - 2010: Permanent Archival of National E-publications
     Project
    - Created a national cloud database of e-publications
  - E-Publication Platform System
    - Awarded 2011 ALA Presidential Citation for Innovative International Library Project

### 圖家圖書館在臺灣數位資源典藏管理之努力(8) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

#### - The system officially went online on August 23, 2011

- Assigns ISBNs to e-publications
  - new publication information for e-books in Taiwan with quick dissemination
  - makes e-books internationally available and increases international cultural exchange
- Features multifunctional platform for deposit and archival
  - archives Taiwan e-books and preserves national cultural assets
- Provides convenient e-reading services for the public
  - online and offline e-reading
  - Digital Rights Management
  - policies for circulation of e-publications
  - Increases public's e-reading convenience and ability



#### 圖家圖書館在臺灣數位資源典藏管理之努力(9) NCL's Efforts to Archive and Manage Digital Resources in Taiwan



#### Depositor's view

回首賞 蒙見結開 意見信箱 行動類 经底首真 Engli

#### 圖家圖書館在臺灣數位資源典藏管理之努力(10) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

Banne管理 意見信箱管理

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總校中電子書	2	7896	9497	9789860830170	松育机输	作者	2011/08/05	完成典	抽視	高导教育文化事業有限公司	192.83.186.1
得上架電子書	3	7842	9502	9789860830187	My Family	Jennifer Geronimo	2011/08/05	完成典 蔵	抽視	來來有關公司	192.83.186.1
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	8	7800	9471	9789860830248	台灣郊山地圖-北部高	黄膏管	2011/08/02	完成典	tang		圖書館 數
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#### **Publishing view**

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	新增時間	2011-08-16
	更新人员	因实展者结
	洗机人員	153 /S. MI 15 85



Management view

國家圖書館 您好!!

個人编好 001-圖書總鎮 💟

## 圖家圖書館在臺灣數位資源典藏管理之努力(11) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- Digitization of Holdings and Value-Added Services
  - Rare book collection of 12,300 titles and 126,000 volumes, scrolls from Dunhuang, books from Song, Jin, Yuan, and Ming dynasties, hand-written copies, manuscripts, etc.
  - Digitization of ancient books, projects, shared resources
    - Digitization:
      - 2001: e-Learning and Digital Archives Program, results added to Rare Books Image Search System
      - Rare Books Information Web
    - Cooperative projects
      - 2005: digitized rare books in U.S. Library of Congress.
         Results uploaded to Rare Books Image Search System.
      - Jul 2011: signed an agreement with UC Berkeley

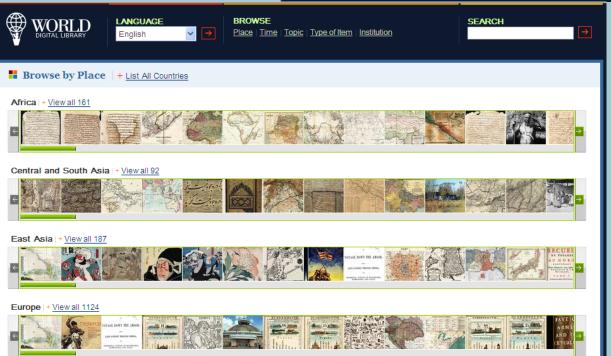
### 圖家圖書館在臺灣數位資源典藏管理之努力(12) NCL's Efforts to Archive and Manage Digital Resources in Taiwan





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#### **World Digital Library**



# **Cooperation with University of Washington East Asian Library**



# **Cooperation with UC Berkeley Library**







### 圖家圖書館在臺灣數位資源典藏管理之努力(13) NCL's Efforts to Archive and Manage Digital Resources in Taiwan

- Adding value and innovation to ancient books
  - Classical Quintessence
    - depicts different versions of ancient books at NCL, hand-made illustrations and ancient painting anthologies, stone rubbings, ancient contracts from Taiwan, Chinese New Year paintings, and old postcards
  - Illustrations of Aboriginal Life in Taiwan
    - Images obtained through project with Library of Congress
  - Chinese Studies e-Classics database
    - displays early reference works at the library on rare books

#### 圖家圖書館在臺灣數位資源典藏管理之努力(14) NCL's Efforts to Archive and Manage Digital Resources in Taiwan



#### **Classical Quintessence**

#### Illustrations of Aboriginal Life in Taiwan

#### **Chinese Studies e-Classics**





課2課 除了新作用、所得快之外

在夏天时。 他們會做上高高的獲辦街和水瓜樹。 株下東實。 哈哈 | 太郎兒後收得多歸心明 !

平地社会是我被离子。



# 與出版界合作出版古籍電子書

- 長晉 Charng Jinn Digital Co. http://www.funbook.com.tw/
- 遠流 Yuan Liu: <u>http://www.ylib.com/</u>
- 數位典藏計畫 TELDAP e-book project
- 光耀 OptiVision Technology http://www.optivtech.com.tw/
- 臺灣數位出版聯盟協會 Association of Taiwan
   Digital Publishing Alliances
   <a href="http://netreading.wordpress.com/">http://netreading.wordpress.com/</a>



# Charng Jinn Digital Co. -- 《聚珍擷英》

 聚珍撷英一國家圖書館特藏精選圖錄《聚珍擷英》-- the unique collection of NCL

Selections from the Special Collections of National Central Library



#### ☐ 首頁 ////下載 Flipviewer //// 操作説明 //// 關於國圖

國家圖書館(以下簡稱本館)珍藏特藏資料,以宋、元、明、清善本以 及普通本線裝書為主,其中宋元本多屬珍籍,而明人文集尤為豐富,傲視羣 倫,餘如金石拓片等亦頗有可觀者。近年,對1946年以前臺灣舊籍文獻之收 藏,更是不遺餘力,重要者如清代臺灣社會買賣、借貸、典當等古書契約二 千四百餘件;臺灣早期風景及原住民生活明信片等約四千餘張。

在諸多珍藏特藏資料中,以宋、元、明、清善本以及普通本線裝書為 主,其中宋元本多屬珍籍,近500部,但並不單單以此誇世,而是以所藏的 6,000多部的明版書,以及明清稿本和批校本古籍,更為海內外學界所推 重,咸認為是研究中華古文化的重要資產。

本館身負典藏國家文化要籍之重責,將藏品化身千百、提供利用與傳 布,本圖錄以六個單元,分別介紹館藏古籍版本、手繪本及古籍版畫、拓 片、臺灣古書契、年畫、老明信片等,並配合精選之大圖片,呈現館藏之珍 責性與特殊性,以期達到如欣賞畫冊之藝術效果及闡揚舊籍的學術目的。

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- 《臺灣番社風俗》(Taiwan Aboriginal Villages) (Library of Congress collection)→《臺灣平埔 族生活圖誌》 (Published in Jan 2011)
- 《山海經》 (The Classic of Mountains and Seas) (NCL collection) (still in designing phase)





# The Plain Aboriginal life in Taiwan "



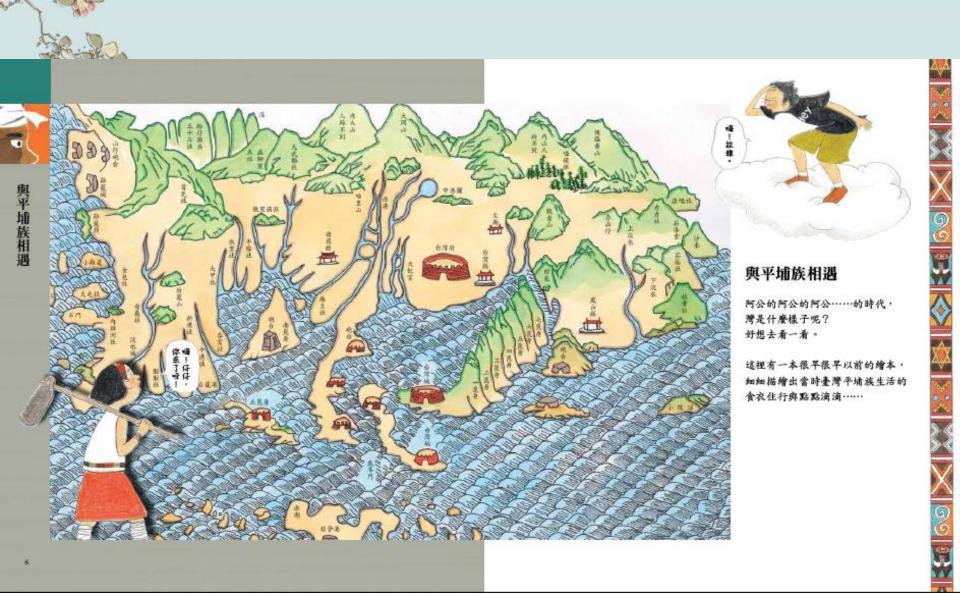


國家圖書館・小魯文化 合作出版











# Yuan Liu's "Wisdom Collection"

- "The annotated introduction to the rare books collection at NCL" —e-version
- 第一階段(2010年8月~12月)
  - 《善本題跋真跡》(4冊) 《標點善本題跋集錄》(2冊)
  - 《佩加吾本越城采録》(2117) - 《國家圖書館善本書志初稿》( 12冊)
    - 經部(1冊)、叢書部(1冊)
       史部(2冊)、子部(4冊)、
       集部(4冊)
- 第二階段(2010年12月~2011年3月)
   《國立中央圖書館善本序跋集錄》(16冊)--進行中



#### Presentation of NCL's rare book annotation work in Yuan Liu's "Wisdom Collection" 台灣學術書知識庫 本知識麼包含:137位操作課者,40家出版社、756本學術專著、13個研究專題 登入秋憩:智慧藏 60 中語新社 目前語言 繁璧中文 🛩 65 tf 密碼 1.登入帳號、密 被完 閲覧 乳的客桌 25.2 專庫 碼,以啓用個人化 019 E • 劉史珍羅(144) 2.使用檢索、閱 68 專題 Editors' choice -服務(國圖IP範 國家圖書館 **覽、我的書桌**等 想找更多資料嗎? • 國家協會總許讓基本精 請使用達隆柏索 **圍下**,無需帳號密 National Central Library 借(3) 功能 位完本書 • 耳中正(44) 碼,即可檢索、閱 檢索知識書 典藏善本專題精選 中國資産業史科製刊(21) **管全部內容**,只有 •二二八事件(21) 最近常被检索的關鍵字詞 3 • 課語福(14) 使用個人化服務 3. 查看最近常被 · 胡湯 (13) IGKE DUS NOS 1010 康德副 接透福 上線書簡 本軍位全文書目 國史診藏 時,例如做筆 接險與進行經典文集(33) 使用搜尋的關鍵字 基度山 • 安南劉王 • 中餐與西醫(11) 記、引用格式、 推薦書題 詞 . . \* 劉提月(54) 友善列印 等,才 Seven Pillars Of Wisdom 智慧七柱(上) 國家醫書編善本題跋真時(三) ·廣德開(12) 自國家涵書館與藏19,000多部基本 「在文學上、本書勞倫新的著作不 需要登入帳號) 中、精谐含括缆、史、子、集、兼書 • 民間故事(40) 合理使用 6,認無一不重要。《智慧七柱》記 之1063据基本古籍, 麵取各家手書題 鋒他自己在沙漠中的戰爭回憶·已被 **送影印・上北宋権**-金庸研究(40) 4. 國家圖書館 公認為「某調文是中發偉大的。 MORE MORE 《台湾學術書知證庫》的內容受 • 柏楊 (65) 經學研究論藝·第五輯 校羅現場·住別觀察 到著作權相關法令的深國。在 本(論義)以最平實的態度來研究律 來自教育現場的聲音,邀請所有教育 東書駅頭車 電子書專題, 「合理使用」之時间下您得以证 7. 國家圖書館 **統加學。本輯收錄「經學研究」論文** 工作者、一能狭開雙眼、去看到存在 用本知識療・ 百年輕人(5):輕累的 二篇・研究(三禮)、《詩經》、 於校園中的種種性別現象 + 本書分為 本知道像的功能是專系您從事研 於此黃金版位 拿建装 《三傳》、《四書》論文九篇... 教話、星牛、身體、牛澤/\_ 電子書專題 充工作简腔計的 + 您可以在線上 規葉髪部著作・但我們在信徒用 MORE MORE • 柏楊全集1 数文桥器文 輪播出現 這些內容時作了姑娘制,以避免 20 紹次算講療法:一音以短絡為本,詳 Souvenirs entomologiques: étude sur (常態呈現) 1200 該用,並保護著作權人/出版路 linstinct et les moeurs des insectes 入課整人體氣血的按摩腳法 · 百年輕人(1):輕重開 法市爾昆蟲記): 架換菜葉 經結是人體運行氣血、聯絡臟腑的原 合)總利:1 路先鋒 @ 【告訴我你吃的是什麼,我就能 路,經絡系統裡有經氣循環傳注,經 業的運行良好、人體各部功能才能保 百年軽人(6):誇困様 他不得列印或複製整話著作 設出你是哪種人。」在昆蟲世界裡這 持续测测平衡。综穴探测器。 體大亨 5.编輯推薦電子 您每次列印的真他受到限制 做法則是否也成立?本書中法布爾對 MORE -各種昆蟲的進食方式做了詳。 • 性别教育最前雌——多元 8. 電子書點閱 任何破壞上述限制之行為,不僅 書(輪播) 文化的觀點 可能得较我們給止您使用本知識 最新上級書單(本機構可能尚未訂購・僅供參考) • 百年輕人(2):時世紀 率排行 的輕人 機構違犯法合同受罰・ 國家國書編書丰書志初稿 經修 医家庭者结查丰者志初稿 兼者部 本書任國家圖書館所謂的基本解題目 本書係國家協書歸所做的基本解題目 • 医肠道胃腔炎 鋒,收錄裝書部善本共185部,部內 錄,收錄經部基本共1.128部,部內每 • 國家不會詩家幸 植書志撰寫之順序,依照《图立中央 每種書志撰寫之順序, 依照《图立中 6.最新上架電子 图書録善丰書目》先--央語書編春本書目》先後... • 柏楊全集15 小説優 MORE MORE - 百年輕人(4):全方位 書 標點善本題說集錄 上冊 標點基本題狀集錄 下冊 的記者 \*\*\*\*\*\* 原《善本題說真時》約3,200影幅皆為 原《善本題跋真詩》約3,200影幅皆為

34



# 圖家圖書館在臺灣數位資源服務之努力 NCL's Efforts to Provide Digital Resource Services





# 圖家圖書館在臺灣數位資源服務之努力NCL's Efforts to Provide Digital Resource Services

- Provide a Daily New Publications Service
- Provide Subject on Demand (SOD) Services
- Provide Knowledge Support Reference Services
- Established Web Services Gathered Under a Single Portal
- Established an E-reading Booth
- Provide Circulation of E-books

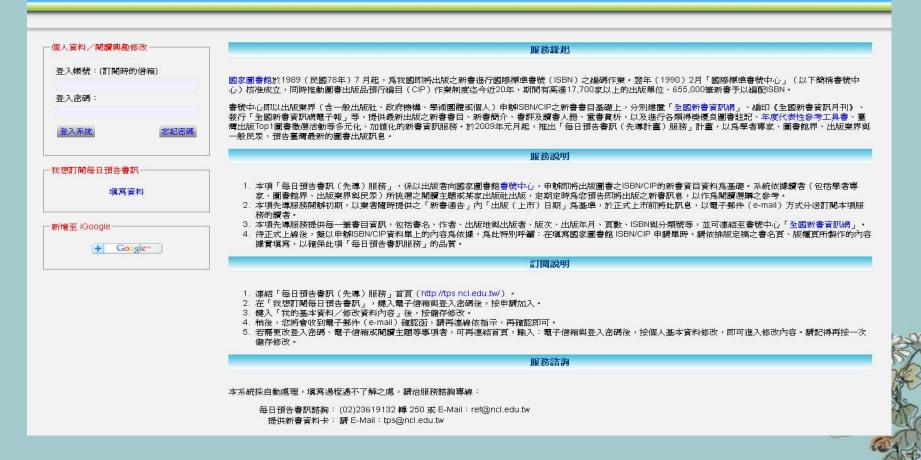
圖家圖書館在臺灣數位資源服務之努力(1) NCL's Efforts to Provide Digital Resource Services

- Daily New Publications Service
  - Developed in 2010
  - system automatically sends out regular emails to subscribers of this service, informing them of new publications that will soon be available, based on which topic or publisher a reader selects
  - As of Aug 2011, approximately 2,000 users
     have subscribed



#### 圖家圖書館在臺灣數位資源服務之努力(2) NCL's Efforts to Provide Digital Resource Services

#### 每日預告書訊服務





圖家圖書館在臺灣數位資源服務之努力(3) NCL's Efforts to Provide Digital Resource Services

- Subject on Demand (SOD) Services
  - 2011: began providing Subject on Demand (SOD) services
  - initially programmed with 100 academic topics
  - Can search NCL's five main database systems
    - Library catalog, National Digital Library of Theses and Dissertations in Taiwan, ISBN Agency of Taiwan, Index to Taiwan Periodical Literature System, and E-publication Platform System



#### 圖家圖書館在臺灣數位資源服務之努力(4) NCL's Efforts to Provide Digital Resource Services





圖家圖書館在臺灣數位資源服務之努力(5) NCL's Efforts to Provide Digital Resource Services

- Knowledge Support Reference Services
  - 2010: completed Knowledge-based Reference System
  - Initial capabilities include: courses on data use, interlibrary projects, reference room guides, reference service standards
  - Includes five systems: 1) Pathfinder, 2) Subject
     Specialist Reference Service, 3) Internet Knowledge
     Lighthouse System, 4) Introduction to Selected
     Reference Works, and 5) Virtual Reference Taiwan



## 圖家圖書館在臺灣數位資源服務之努力(6) NCL's Efforts to Provide Digital Resource Services

♀數位多元資源查詢系統 查詢		全國圖書館合作參考服務
知識資源示意圖		資訊利用課程
學科專家諮詢		館際合作
提問表格 諮詢進度查詢		館際複印與互借 相關網站
知識共享圈		參考室指引
學科專家           網路知識燈塔		参考室平面圖 中西文分類法對照表
熱門主題網站		參考實景照片
網路資源選介		參考服務規範
知識寶藏	0	參考服務指引
工具書選介中文工具書選介	國家圖書館 知識支援參考服務	電腦使用須知 相關網站
西文工具書選介	National Central Library knowledge-based Reference System	關於本站



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## 圖家圖書館在臺灣數位資源服務之努力(7) NCL's Efforts to Provide Digital Resource Services

- Web Services Gathered Under a Single Portal
  - April 2011: iNCL single log in service started
    - users only need to set up one account; once logged in, there is no need to enter a username and password again, regardless of which system they navigate to.
    - As of Aug 2011, approximately 39,000 users have signed up, and have signed in over 53,000 times.



#### 圖家圖書館在臺灣數位資源服務之努力(8) NCL's Efforts to Provide Digital Resource Services

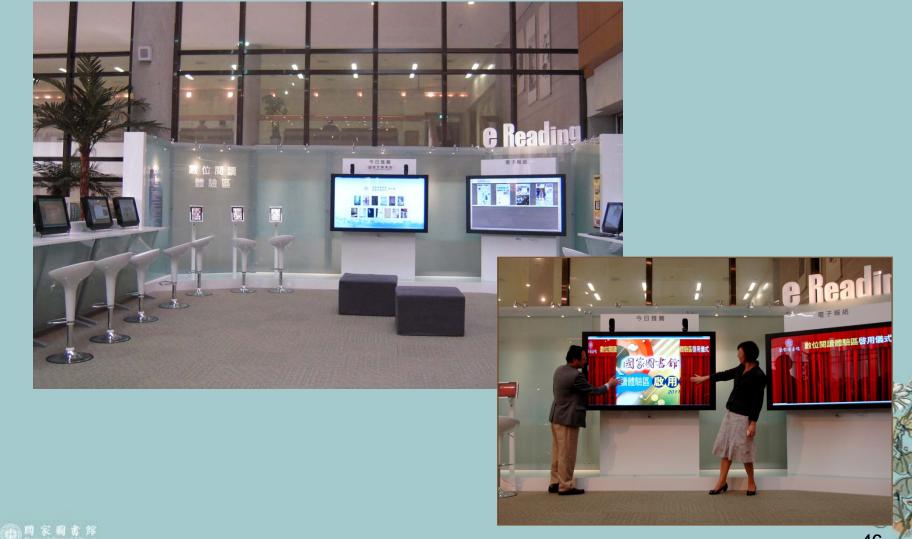


## 圖家圖書館在臺灣數位資源服務之努力(9) NCL's Efforts to Provide Digital Resource Services

- E-reading Booth
  - Officially opened on June 3, 2011
  - Provides diverse content, including enewspapers, e-books, and e-magazines
  - Some ancient books at NCL have been digitized
  - Reading devices available to borrow



### 圖家圖書館在臺灣數位資源服務之努力(10) NCL's Efforts to Provide Digital Resource Services



圖家圖書館在臺灣數位資源服務之努力(11) NCL's Efforts to Provide Digital Resource Services

- Circulation of E-books
  - Open access model
    - Can be checked out regardless of location; no limit
  - Limited access model
    - Can be accessed at designated NCL computers; e-books can be clicked on after logging in.
    - Can be accessed on PC, laptop, tablet, mobile device by logging into NCL's website. Can be read and returned at the click of a button.
    - Can be accessed offline with NCL Reader on any compatible device within the check out period.







#### Mobile iPad interface



#### Offline PC interface

#### Online web interface







# 未來展望 Future Prospects





未來展望(1)

**Future Prospects** 

- Provide better mobile services
  - What information do readers want? To do what?
     What can libraries provide that Google cannot?
- Improve e-resource preservation technology
  - Library handles information security, backups, storage facilities, protection of digital content, copyright management and maintenance
- Formulate reasonable DRM services
  - Meet readers' needs, equal access to knowledge, avoid illegal copying by readers or libraries





未來展望(2)

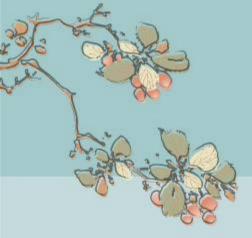
**Future Prospects** 

- Increase quality of e-books in library
  - Encourage publication of quality books, recommend good e-books, encourage indepth reading
- Cooperative projects and shared resources
  - Revamp policies, work with major libraries here and abroad, share resources
- Increase technical savvy of librarians
  - Help readers understand how to use new technology, analyze e-books and market trends, provide courses and guidance



# Conclusion

- Libraries exist for the benefit of the public and to encourage the acquisition of knowledge—something no other business entity can fully replace. Computer technology is developing rapidly. Profit-seeking information companies come and go, or get replaced at an alarming rate.
- Libraries and their image of public benefit have been around for centuries. They have social responsibilities and a mission to make educational materials available to all. They are trusted by the people.
- The National Central Library is a leader among libraries of the same type, and has a firm belief in serving the public, in improving functionality, and in the role of libraries as the ultimate knowledge trove in this, the digital era.



## Thank you for Listening Your comments and suggestions are much appreciated



