Developing Digital Collections for Academic Libraries: the Practices of National Taiwan University Library

Chen, Kuang-hua / 陳 光華
National Taiwan University Library (NTUL) Department of Library and Information Science, NTU
khchen@ntu.edu.tw
Acknowledgments

Materials presented in this talk are contributed by colleagues of National Taiwan University

Many thanks go to

- Professor Hsueh-Hua Chen（陳雪華教授）
- Professor Jieh Hsiang（項潔教授）
- 張素娟、邱婉容、郭嘉文、劉京玫、陳慧華、洪淑芬
Outline

- Collection Development in Libraries
- Digital Archives
- Digitization: NTUL’s Strategies
- Achievements of Digitalization
- Put them Together and Form a Cultural Context
- Explore Taiwan in Users’ Own Way
Collection Development

- Development of digital collections should be regarded as one part of complete strategies for collection development in libraries.

- Preservation and use
  - No preservation, no use
  - Preservation for current and future uses
Goals for Developing Digital Archives

Constructing digital archives which entail
- Reading Taiwan-related materials
- Understanding Taiwan-related topics
- Investigating Taiwan-related contents
- Discovering Taiwan-related knowledge in a cultural context.
Concerns of Resource Digitalization

- Each organization has to consider from her own perspectives
- Concerns of NTUL
  - Taiwan-related materials
  - Invaluable assets of NTU
  - Unique & highly utilized materials
Digital Archives in NTU

Taiwan Cultural Relics Rubbings 1693 - 1929
Old Deeds 1723 - 1918
Tan-Hsin Archives 1776 - 1895
Lyric Books of Taiwanese Opera 1894 - 1971
Manuscripts of Yasusada Tashiro 1895 - 1919
Manuscripts of Kanori Ino 1895 - 1905
Taiwan Colonial Court Records Archives 1895 - 1945
Taiwan Colonial Statistics Database 1895 - 1945
Taiwanese Old Photos Collection 1895 - 1945
KMT Party History Database 1900 - 1950
V. S. de Beausset Collection 1949 - 1957
Taiwan Democracy Archives 1951 - 2006
NTU Institutional Repository 1939 -
NTU Web Archive 1996 -

1600 1700 1800 1900 2000
Strategies for Developing Digital Collections

- Digitize unique collections
- Digitize invaluable collections
- Digitize topical items selected from various sources
- Cooperate with other institutions or private collectors
- Aggregate born digital resources
Digitize Unique Collections -- the First Strategy

- Tan-Hsin Archives
- Manuscripts of Kanori Ino
- Manuscripts of Yasusada Tashiro
Tan-Hsin Archives

- The official administrative and judiciary files of Tamsui and Hsinchu area during the Qing Dynasty from 1776 to 1895.
- There are 19,152 items in 1,163 files totally.

命淡水縣典史前往竹塹、蔴薯、日北三屯挑選屯丁
Command from Tamsui officials on drafting soldiers
Manuscripts of Kanori Ino

- Kanori Ino (1867-1925) was the first to propose a comprehensive categorization of Taiwan's indigenous population.
- He made tremendous contributions to the anthropological and historical study of Taiwan.
Manuscripts of Yasusada Tashiro

- Yasusada Tashiro was a botany expert who worked for the Taiwan Governor-General's Office during the Japanese colonial period.

- Tashiro's work not only marks the beginning of Taiwan botanical research, but is also an important record of the island's botanical developments.
Digitize Invaluable Collections
-- the Second Strategy

- Rubbings of Taiwan Cultural Relics
- V. S. de Beausset Collection
- Lyric Books of Taiwanese Opera
- Early Hakka Phonograph Records
There are 189 items in the collection of Rubbings of Taiwan Cultural Relics.

Because many of the original steles have been destroyed, these remaining rubbings are invaluable for the study of Taiwan history.

Stele prohibiting soldiers from robbing merchant ships (嚴禁兵民搶奪商船碑記)
Valery S. de Beausset was an influential figure in budget and development planning during the period of U.S. Aid to Taiwan.

The V. S. de Beausset Collection includes documents concerning U.S. Aid to Taiwan, color films, photographs, personal letters, diaries, and news clippings.
Lyric Books of Taiwanese Opera

- Most of the lyric books were written in the Minnan dialect with themes including historical stories, folktales, moral stories and songs that reflect a changing world.

About 16 cm
10~20 pages
These Hakka folksongs were recorded in Japan in 1914.
Digitize Topical Items Selected from Various Sources – the Third Strategy

Extract photos and statistics from old various books published during the Japanese colonial period (1895-1945).

- Taiwanese Old Photos Collection
- Taiwan Colonial Statistics database
Taiwanese Old Photos Collection

- 37,000 photos and corresponding metadata
<table>
<thead>
<tr>
<th>圖像題名</th>
<th>文政學部</th>
</tr>
</thead>
<tbody>
<tr>
<td>圖像出處</td>
<td>臺灣を代表するもの</td>
</tr>
<tr>
<td>圖像出處 作者</td>
<td>昭和拾年臺灣博覽會記念編纂</td>
</tr>
<tr>
<td>出版者</td>
<td>臺灣新聞社</td>
</tr>
<tr>
<td>出版地</td>
<td>臺中市</td>
</tr>
<tr>
<td>出版年</td>
<td>昭和10[1935]</td>
</tr>
<tr>
<td>頁碼</td>
<td>面712</td>
</tr>
<tr>
<td>圖像類型</td>
<td>照片</td>
</tr>
<tr>
<td>圖像色彩</td>
<td>黑白</td>
</tr>
<tr>
<td>高廣尺寸</td>
<td>4.5X7.5公分</td>
</tr>
<tr>
<td>關鍵字</td>
<td>法學院 文學院 臺灣大學 臺北帝大 臺北帝國大學</td>
</tr>
<tr>
<td>收藏者(單位)-名稱</td>
<td>臺大總圖書館</td>
</tr>
</tbody>
</table>

103,700 tables and corresponding metadata

關於臺灣日治時期統計資料庫

日本帝國在統治台灣的五十一年間，不僅進行了多項的調查，也以量化的統計詳
細記錄了殖民地在地政府的運作，留下了相當完整且數量龐大的統計資訊。這些
在當時作爲殖民治理知識的統計資訊，對於加強法律實證研究的歷史縱深面向，
饒具意義。

蒐集與法律相關的統計或資料固然有助於法實證研究，但倘若能突破傳統上法學
研究的想像，拓展視野與關懷至其他相關領域........... more>
| 港 | 支那 | 關東州 | 香港 | 英領印度 | 海峽殖民地 | 阿領印度 | 佛領印度 | 未登記
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>漢基</td>
<td>3,873,140</td>
<td>5,703</td>
<td>35,608</td>
<td>25,327</td>
<td>24,690</td>
<td>562,080</td>
<td>35,477</td>
<td>88</td>
</tr>
<tr>
<td>龍井</td>
<td>1,809,028</td>
<td>10,700</td>
<td>1,107</td>
<td>25,206</td>
<td>39,846</td>
<td>237</td>
<td>39,641</td>
<td>......</td>
</tr>
<tr>
<td>望安</td>
<td>11,735,754</td>
<td>1,917,102</td>
<td>31,013</td>
<td>294,489</td>
<td>39,011</td>
<td>390,128</td>
<td>240,635</td>
<td>......</td>
</tr>
<tr>
<td>高綠</td>
<td>9,464,240</td>
<td>2,947,430</td>
<td>9,061</td>
<td>910,873</td>
<td>37,345</td>
<td>8,576,446</td>
<td>23,083</td>
<td>131</td>
</tr>
<tr>
<td>浙江</td>
<td>229,240</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>合計</td>
<td>20,733,517</td>
<td>4,481,085</td>
<td>76,874</td>
<td>1,899,359</td>
<td>142,958</td>
<td>10,356,531</td>
<td>339,224</td>
<td>219</td>
</tr>
</tbody>
</table>

**貿易**

<table>
<thead>
<tr>
<th>港</th>
<th>合計</th>
<th>瑞典</th>
<th>諾威</th>
<th>羅西亞</th>
<th>西班牙</th>
<th>丁俠</th>
<th>土耳其</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Collaborate with Other Institutions & Private Collectors – the Fourth Strategy

Collection Holders

Other Institutions & Private Collectors

Digitization Process

NTUL

Win-Win!

- Taiwan Democracy Archives held by the Chilin Foundation/慈林教育基金會典藏臺灣社運史料資料庫
- KMT Party History Database/中國國民黨史料資料庫
- Taiwan Colonial Court Records Archives/日治法院檔案資料庫
- Taiwan Old Deeds/古契書
Taiwan Democracy Archives

- Cooperate with Chilin Foundation
- 23,000 news & 125,000 magazine articles from 1950 until now.
KMT Party History Database

- 76,000 metadata & 880,000 images from 1910’s to 1940’s.

National Taiwan University Library
Taiwan Colonial Court Records Archives

270,000 metadata & 2,295,000 images from 1895 to 1945.
Taiwan Old Deeds (1/2)
Aggregate Born Digital Resources
-- the Fifth Strategy

- NTU Institutional Repository
- NTU Web Archive
NTU Institutional Repository (NTUR)

- NTU Library has been collecting scholarly materials, such as research reports, journal articles, conference papers, and PDF documents written by the university's faculty and students.

- This repository ranks 11th among institutional repositories at universities in the world and first in Asia (2012).
Because websites are subject to fast updates, NTU Library has established a system to ensure the long-term preservation for websites.
說明
1. 「承蒙領」表示此案即承蒙上級承蒙取案辦理。
2. 「凝始」為幕友書寫稍後所寫的日期，並蓋有他的印章，即所謂的「呈印」。
3. 「正堂審」，有的函在此處只寫一個「和」字，主管官員即在下位處前毫畫押。
Lyric Books of Taiwanese Opera

最新流行專題事業歌

影片簡介
歌曲歌詞賞析

編出來開啊天啊的啊歷史，
Pian-tshut-lái khai ah thian ah ê ah lîk-sû
編出來開啊天啊的啊歷史，

靜靜來聽較兮袂啊隻。
Tsêng-tsêng lâi thiann khah ê buê ah jû.
靜靜來聽較兮袂啊隻。

我編出這個盤古開天的故事，
Publications of Digital Archives

- DVD Publications
- Book Publications
Explore Taiwan in a Cultural Context

East-West Cross-Island Highway

1. Taipei
2. Tamsui
3. Ilan
4. Hualien
5. Taitung
6. Pintung
7. Tainan
8. Chiayi
9. Nantou
10. Hsinchu
11. Alishan
12. Ilan
13. Tamsui
14. Taipei
劉銘傳奏為臺灣鐵路改歸官辦
新竹 Hsinchu
Taiwan Colonial Court Records Archives

新竹 Hsinchu

日治法院檔案資料庫 TCCRA
Taiwan Colonial Court Records Archives

案件編號: 大正9年重民第2號
書類名稱: 判決
事由: 土地割讓
判決日期: 大正9年11月30日
原告: 謝阿南
被告代理人: -
被告: 謝大順
被告代理人: 謝金成
承辦法官: 楊崎崧大郎
書記官: -
是否上訴: -
受理法院: 臺北地方裁判所新竹出張所
備註: -
所在頁數: 9-14
原定典藏單位: 司法院
數位化製作: 國立臺灣大學

文献引用: 日治法院檔案, 新竹地院, 民事判決原本大正9年第2號, 第9頁, 大正9年重民第2號
< http://tccra.lib.ntu.edu.tw/tccra_develop_record.php?searchClass=all&id=cu101010000001&now=9 >
東西橫貫公路
East-West Cross-Island Highway
V. S. de Beausset Collection

東西橫貫公路
East-West Cross-Island Highway
Lyric Books of Taiwanese Opera

歌仔冊

Books of Lyrics from Taiwanese Opera

嘉義

Chiayi

National Taiwan University Library 2013-12-10
阿里山
Alishan
Manuscripts of Kanori Ino

伊能嘉矩手稿
The manuscripts of Kanori Ino

阿里山
Alishan
開鑿水溝並修各處工程碑記

嚴禁兵民搶奪商船碑記

台南
Tainan
屏東
Pingtung
Manuscripts of Yasusada Tashiro

屏東
Pingtung
### 臺灣日治時期統計資料庫

#### 4. 各年齡者出生年、種族及體性＝分類タル人口

<table>
<thead>
<tr>
<th>年齡及生年</th>
<th>總數</th>
<th>男</th>
<th>女</th>
<th>內地人</th>
<th>男</th>
<th>女</th>
<th>本島人</th>
<th>男</th>
<th>女</th>
<th>朝鮮人</th>
<th>男</th>
<th>女</th>
</tr>
</thead>
<tbody>
<tr>
<td>總數</td>
<td>42,671</td>
<td>22,142</td>
<td>20,529</td>
<td>2,149</td>
<td>1,610</td>
<td>19,599</td>
<td>18,802</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1歲-5歲</td>
<td>6,361</td>
<td>3,211</td>
<td>3,150</td>
<td>314</td>
<td>328</td>
<td>2,860</td>
<td>2,797</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6歲-10歲</td>
<td>4,660</td>
<td>2,353</td>
<td>2,307</td>
<td>216</td>
<td>212</td>
<td>2,121</td>
<td>2,087</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11歲-15歲</td>
<td>4,553</td>
<td>2,303</td>
<td>2,250</td>
<td>120</td>
<td>127</td>
<td>2,155</td>
<td>2,115</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 台東

Taitung
Taiwanese Old Photos Collection

花蓮 Hualien
臺灣革命同盟會成立案 (1941-08-16)
Put Them Together
Conclusions

- Provide an Interactive Scenario for Users to Explore Taiwan in their Own Way
- It looks like to read dynamic books, Taiwan-related books
Thank you