

### Metadata for the National Digital Archives Program (NDAP) of Taiwan

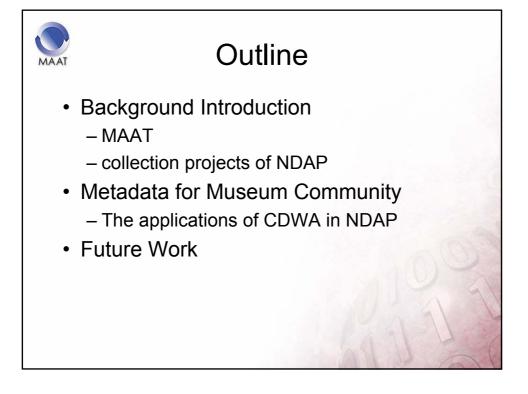
Presenter: S.J.(Sophy) Chen

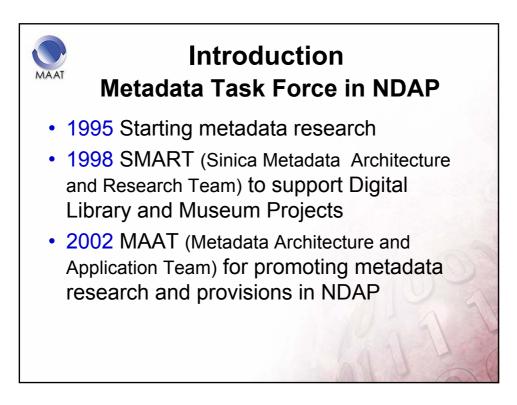
S.J.(Sophy) Chen, Y.N. Chen, C.J. Cheng, Y.C. Chiu

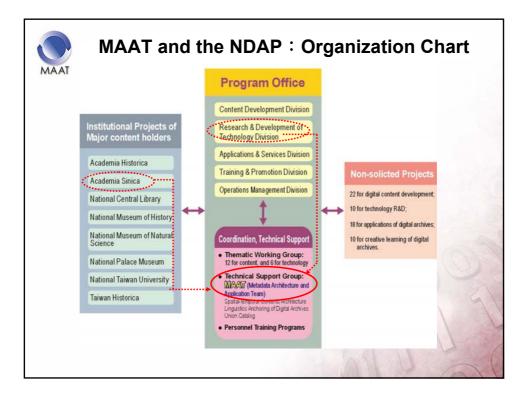
Metadata Architecture and Application Team National Digital Archives Program 15 November 2004

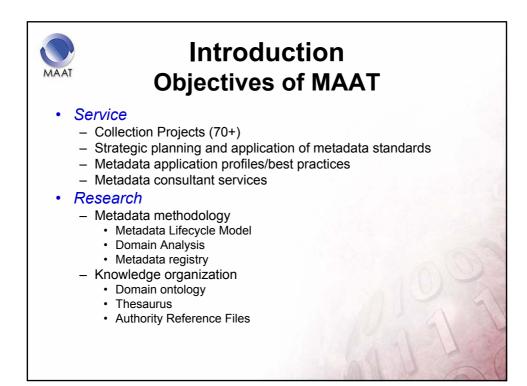
The Meeting at the Getty Center









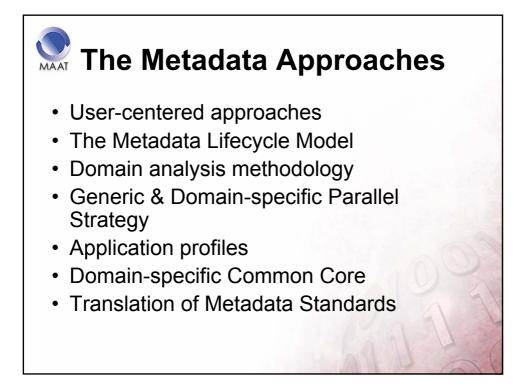


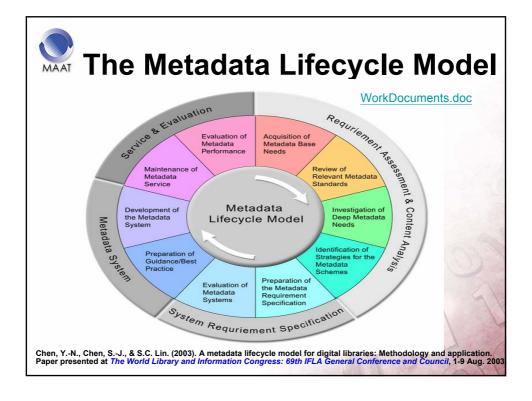
1912-12-11	of Knowledge Management Metadata in the NDAP
Data Type Layer	Rubbings, Files, Rare Books, Full Text, Specimens, Corpus, Maps, Photos, Painting and Calligraphy, Audio-Visual, Score, Dress, Reports, Investigation, etc.
Discipline Layer	Arts History, Politics, Humanities, Archeology, Ethnology, Diplomacy, Zoology, Botany, Genomics, Linguistics, Geology, Geography, etc.
Functionality Layer	Resource Discovery, Description, Exhibition, Preservation, Rights Management for e-Commerce, e-Learning, etc.
Community Layer	Museum, Archives, Library, Herbarium, etc.

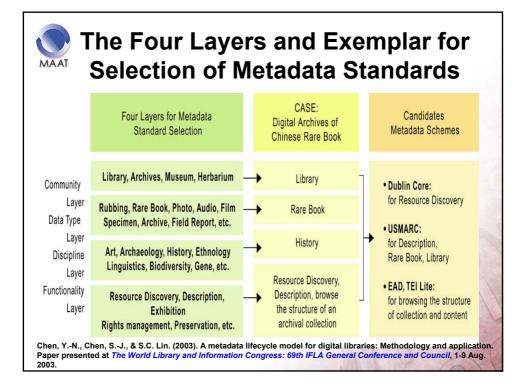


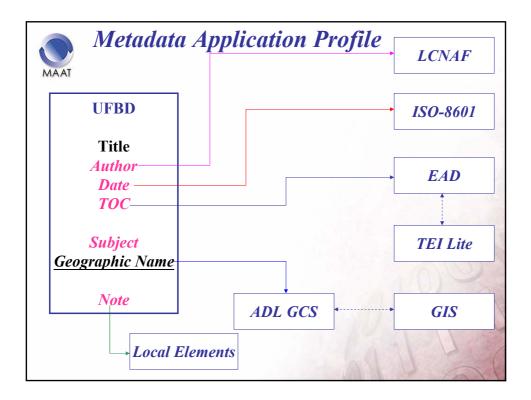
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	Matadata Architecture and Application Tear	m		Metada Archit	ita lecture and Application	Tean
	est Practice   Introduction   Projects   Getting Start   Manag		nts   Events   Resource Attri			
	Projects	Data Types	Subjects	Communities	Metadata Standards	
	The Digital Archives of Rubbings and Archaic Texts	Rubbings	History	Museum	CDWA	
	Digital archives for the Grand Secretariat Archives	Archives	Politics/History	Archives	EAD	
	Digital Archives of Chinese Archaeological Data	Artifacts	Archaeology	Museum	CDWA, MIDAS	
	Digital Archive for Rare Books of Fu Ssu-Nien Library	Rare Books	History	Archives	TEI	
	Digital Library Project for Official Economic Archives and Diplomatic Archives	Archives	Diplomacy	Archives	EAD	
-	Zoological Research of Taiwan: Fish and Mollusks	Specimen	Herbarium	Herbarium	SPECIES 2000 Standard Data	
Z	Digital Library of Taiwan Herbarium	Specimen	Herbarium	Herbarium	HISPID	
	Linguistics Anchoring and Language Archive of Digital Archives	Corpus	Language	N/A	OLAC	
	GIS Archive for Modern Chinese Historic Atlas and Aerial Photos	Map, Photography	GIS	N/A	FGDC	
	Taiwan Aborigine: Ping-pu	Video, Costume	Race/Aborigine	Museum	DC	
Appl	Digital Archives for Ethnological Specimen, Photo and Archives	Report	Race/Aborigine	Museum	CDWA	

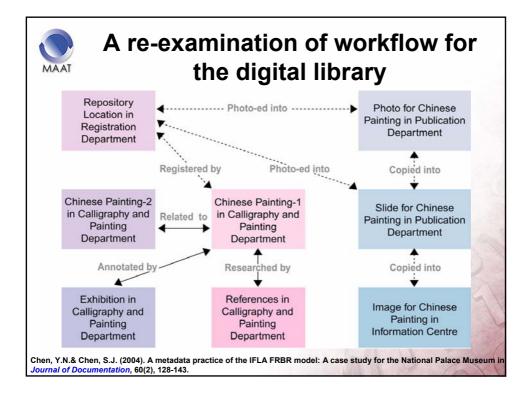
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	MAAT Matadata Architecture and Application Tea Best Practice Introduction   Projects   Getting Start   Mana				lecture and Application	Team
Applic	Digital Archives for Ethnological     Specimen, Photo and Archives		Race/Aborigine	Museum	CDWA	*
	Knowledge Base of Taiwan's Earthquake	Report, Photo	Earthquake	N/A	DC	
	Digital Archives Project of the Office     of Governor-General in Taiwan	Archives	Politics/History	Archives	EAD	
	Digital Archives Project of Chinese Antiquities at the National Palace Museum	Artifacts	Arts	Museum	CDWA	
	Digital Archives Project of Chinese Painting and Calligraphy at the National Palace Museum	Painting and Calligraphy	Arts	Museum	CDWA	
	<ul> <li>Digital Library Project of National Museum of History</li> </ul>	Artifacts/Painting	Arts	Museum	CDWA	
	Digital Video Library Project	Video Tape	Multimedia	Museum	IFLA FRBR /ECHO	
	Taiwan Momery: Digital Photo Museum	Photography	Multimedia	Museum	DC/CDWA	
	National Digital Archives Program (2002-2006): Academia Historica (Taiwan, ROC)	Archives/Photo	Politics/History	Archives	EAD	
Metadata		Copyright © 2002.	. All rights reserved	L		
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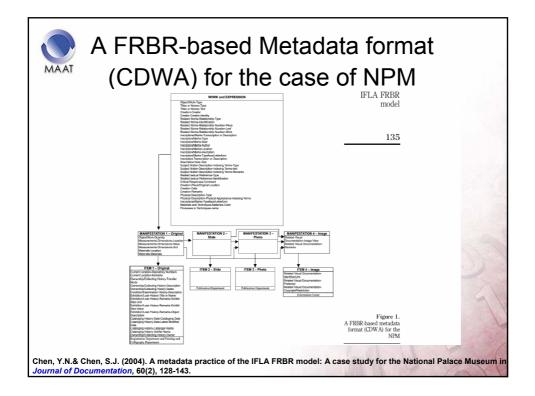


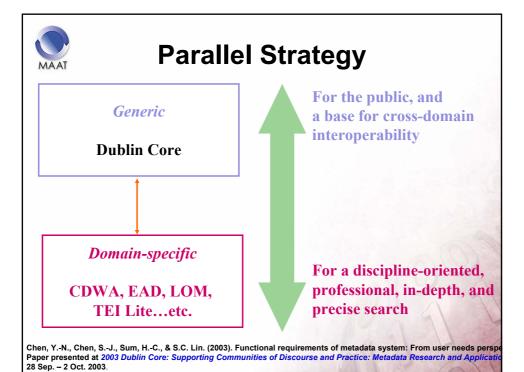


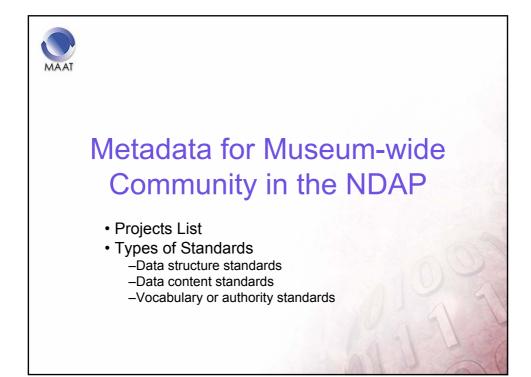














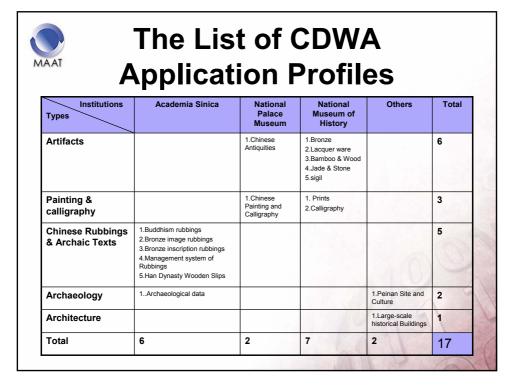
# **Projects List**

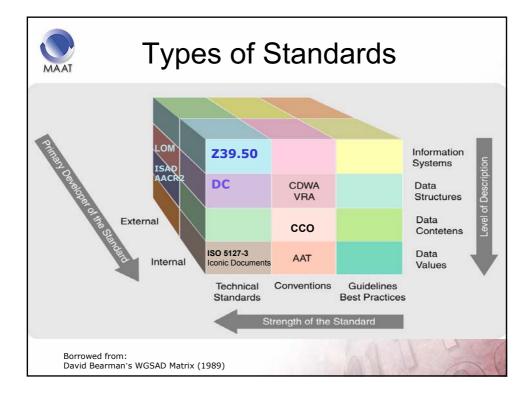
Types	Institutions	Project Titles in English	Project Titles in Chinese
Artifacts	National Palace Museum	Digital Archives Project of Chinese Antiquities at the National Palace Museum	故宮器物數位典藏子計畫
	National Museum of History	National Historical and Cultural Artifacts Digital Collection Project—Bronze	國家歷史文物數位典藏計畫 一青銅器
		National Historical and Cultural Artifacts Digital Collection Project—Lacquer ware	國家歷史文物數位典藏計畫 一漆器
		National Historical and Cultural Artifacts Digital Collection Project—Bamboo & Wood	國家歷史文物數位典藏計畫 一竹木
		National Historical and Cultural Artifacts Digital Collection Project—Jade & Stone	國家歷史文物數位典藏計畫 一玉石
		National Historical and Cultural Artifacts Digital Collection Project—Seal	國家歷史文物數位典藏計畫 一印章
	National Pingtung University of Science and Technology	Cyber Display and Information Searching System for Taiwanese Antique Agricultural Implements	臺灣傳統農耕機具資訊檢索 及網路展示設計
Painting & Calligraphy	National Palace Museum	Digital Archives Project of Chinese Painting and Calligraphy at the National Palace Museum	故宮書畫數位典藏子計畫
	National Museum of History	National Historical and Cultural Artifacts Digital Collection Project—Prints	國家歷史文物數位典藏計畫 一版畫
		National Historical and Cultural Artifacts Digital Collection Project—Calligraphy	國家歷史文物數位典藏計畫 一法書

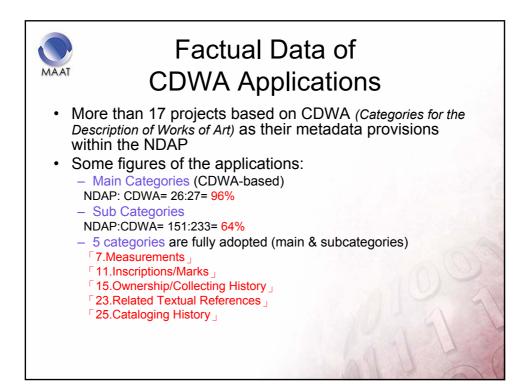
Types	Institutions	Project Titles in English	Project Titles in Chinese
		National Historical and Cultural Artifacts Digital Collection Project—Western Painting	國家歷史文物數位典藏計畫 - 西畫
	Department of Information Communications, Chinese Culture University & Hwa- Kang Museum	The Development of Digital Archives for Modern Treasure of Art Works	近現代珍貴數位典藏系統之 研製
Chinese Academia Sinica Rubbings & Archaic Texts	Digital Archives of Historical and Cultural Relics collected in the Institute of History and Philology— Rubbings and Archaic Texts—Bronze Rubbings- Image Rubbings	珍藏文物數位化典藏計畫— 拓片與古文書數位典藏計畫 — 青銅器拓片-全形拓	
		Digital Archives of Historical and Cultural Relics collected in the Institute of History and Philology— Rubbings and Archaic Texts—Bronze Rubbings- Inscription Rubbings	珍藏文物數位化典藏計畫— 拓片與古文書數位典藏計畫 — 青銅器拓片-銘文拓片
		Digital Archives of Historical and Cultural Relics collected in the Institute of History and Philology— Rubbings and Archaic Texts—Buddhism Rubbings	珍藏文物數位化典藏計畫— 拓片與古文書數位典藏計畫 -佛教石刻造像拓本
		Digital Archives of Historical and Cultural Relics collected in the Institute of History and Philology— Rubbings and Archaic Texts—Han Dynasty Wooden Slips	珍藏文物數位化典藏計畫— 拓片與古文書數位典藏計畫 -漢代簡牘
		Digital Archives of Historical and Cultural Relics collected in the Institute of History and Philology- Rubbings and Archaic Texts-Management System of Rubbings	珍藏文物數位化典藏計畫- 拓片與古文書數位典藏計畫- 石片後設資料整合計畫子 計畫



Types	Institutions	Project Titles in English	Project Titles in Chinese
Archaeology	Academia Sinica	Digital Archives of Historical and Cultural Relics collected in the Institute of History and Philology— Digital Archives of Archaeological Data	珍藏文物數位化典藏計畫- 考古發掘遺物、照片、記錄 與檔案數位典藏計畫
	National Museum of Prehistory	The Creative and Value-Adding Digital Project for the Education and Promotion of Taiwan's Prehistoric Culture(I): The Pei-nan Site and the Pei-nan Culture	臺灣史前文化教育推廣數位 創意加值計畫(1):卑南遺址 與卑南文化
Architecture	National Taiwan University of Science and Technology	Digital Preservation of Large-scale Historical Buildings and Components	大型歷史建築文物數位保存
	reemology		
			102







AAT	✓Union	<b>T</b> Intersection	1	<b>C</b>	DWA CORE	
CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core		CDWA Elements	NDAP Common Core
1. Object/Work 🖬		3. Orientation/Arrangement			State- Remarks	
Object/Work- Catalog level	4	Orientation/Arrangement- Description	*		State- Citations	
Object/Work- Quantity Object/Work- Type 🗉	1	Orientation/Arrangement- Remarks			6. Edition	
Object/Work- Components Object/Work- Components- Quantity	<ul><li>✓</li><li>✓</li></ul>	Orientation/Arrangement- Citations			Edition –Number of Name	4
Object/Work- Components- Type		4. Titles or Names			Edition- Impression Number Edition- Size	1
Object/Work- Remarks	✓	Titles or Names- Text 🗉	× 🛧			
Object/Work- Citation		Titles or Names- Type	4		Edition- Remarks	0
2. Classification		Titles or Names- Date Titles or Names- Remarks	<ul> <li>✓</li> <li>✓</li> </ul>		Edition- Citations	1
Classification- Term 🗉	1	Titles or Names- Citations			7. Measurements 🖬	
Classification- Remarks		5. State			Measurements- Dimensions	1

AAI	Union	TIntersection	1	CDWA CORE	
CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core
Measurements- Dimensions- Type	~	Materials and Techniques- Extent	1	Materials and Techniques- Materials-Marks-Date	
Measurements- Dimensions- Value Measurements- Dimensions-	× ×	Materials and Techniques- Processes or Techniques	*	Materials and Techniques- Actions	
Unit Measurements- Dimensions-	▼ ▼	Materials and Techniques- Processes or Techniques- Name	1	Materials and Techniques- Remarks	1
Qualifier Measurements- Dimensions- Date	*	Materials and Techniques- Processes or Techniques-		Materials and Techniques- Citations	
Measurements- Shape	1	Implement		9. Facture	
Measurements- Size	1	Materials and Techniques- Materials	1		
Measurements- Scale	1	Materials and Techniques-	1	Facture-Description	1
Measurements- Format	1	Materials-Role		Facture-Remarks	113
Measurements- Remarks	4	Materials and Techniques-	1	Act 12	
Measurements- Citations	-	Materials-Name		Facture-Citations	
8. Materials and Techniques		Materials and Techniques- Materials-Color	1		~
Materials and Techniques-	1	Materials and Techniques- Materials-Source		10. Physical Description	
Description  Materials and Techniques- Extent	1	Materials and Techniques- Materials-Marks		Physical Description- Physical Appearance	1

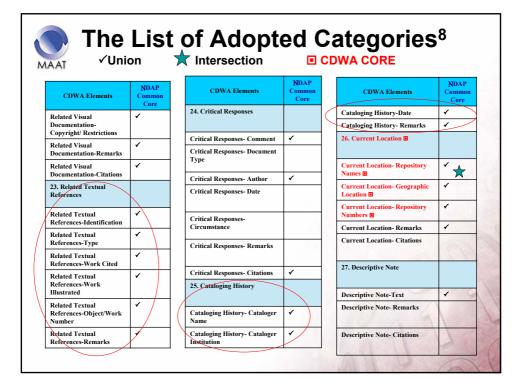
√Union	*	Intersection		Categorie	•
CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Commo Core
Physical Description- Physical Appearance- Indexing terms	1	12. Condition/Examination History		Conservation/Treatment History-Agent	4
Physical Description- Remarks	~	Condition/Examination History-Description	4	Conservation/Treatment History-Date	1
Physical Description- Citations		Condition/Examination History-Type	1	Conservation/Treatment History-Place	
11. Inscriptions/Marks		Condition/Examination History-Agent	1	Conservation/Treatment History-Remarks	1
		Condition/Examination History-Date	1	Conservation/Treatment History-Citations	1
Inscriptions/Marks- Transcription or Description	~	Condition/Examination History-Place		14. Creation 🗉	
Inscriptions/Marks-Type Inscriptions/Marks-Author	✓ ✓	Condition/Examination History-Remarks	1	Creation-Creator	1
Inscriptions/Marks- Location	1	Condition/Examination History-Citations	1	Creation-Creator-Extent	
Inscriptions/Marks- Typeface/Letterform	<ul> <li>✓</li> </ul>	13. Conservation/Treatment History		Creation-Creator-Qualifier	1
Inscriptions/Marks- Date	<pre>/ /</pre>			C C	
Inscriptions/Marks- Remarks	1	Conservation/Treatment History- Description	*	Creation-Creator-Identity	-
Inscriptions/Marks- Citations	1	Conservation/Treatment History-Type	1	Creation-Creator-Role	1

	ISL C Union			ategories	•
CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core
Creation-Creator-Statement		Creation- Numbers		Ownership/Collecting History- Dates	$\overline{\langle}$
Creation-Date	~	Creation- Remarks	1	Ownership/Collecting History- Owner's Numbers	1
Creation- Date- Earliest Date	۰ ۰	Creation- Citations		Ownership/Collecting History- Credit Line	1
Creation- Date- Latest Date Creation-Place/Original Location	<ul> <li>✓</li> <li>✓</li> </ul>	15. Ownership/Collecting History		Ownership/Collecting History- Remarks	1
Creation-Commission		Ownership/Collecting	✓	Ownership/Collecting History- Citations	¥
Creation- Commission-		History- Description Ownership/Collecting History- Transfer	~	16. Copyright/Restrictions	
Creation- Commission-		Mode	1	Copyright/Restrictions- Holder Name	1
Commissioner- Type		Ownership/Collecting History- Cost of Value		Copyright/Restrictions- Place	10
Creation- Commission-		Ownership/Collecting History- Legal Status	1		
Commission- Date		Ownership/Collecting History-Owner	1	Copyright/Restrictions- Date	
Creation- Commission- Commission- Place		Ownership/Collecting History-Owner-Role	-	Copyright/Restrictions- Statement	1
Creation- Commission- Commission- Cost		Ownership/Collecting History-Place	Y	Copyright/Restrictions- Remarks	7

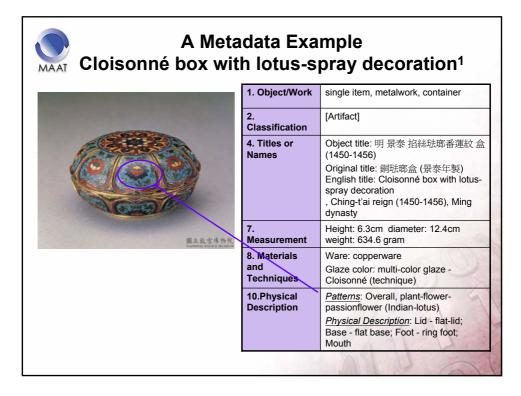
	<b>T</b> Intersection	<b>•</b> C	DWA CORE	
NDAP Common Core	CDWA Elements	NDAP Common Core	CDWA Elements	NDAH Commo Core
	Subject Matter- Interpretation		Context- Historical/ Cultural- Place	
	Subject Matter- Interpretation- Indexing terms 🗉		Context- Historical/ Cultural- Agent	
1	Subject Matter- Interpretive History		Context- Historical/ Cultural- Agent- Identity	
1	Subject Matter- Remarks	1	Context-Historical/Cultural-	
×	Subject Matter- Citations			
			Context-Historical/Cultural- Cost or Value	
	19. Context			
			Context-Architectural	19
	Context- Historical/Cultural	1		No.
✓	Context- Historical/ Cultural- Event Type		Context-Architectural- Building/Site	
1			Contract of Contract	
	Context- Historical/ Cultural- Event Name		Context-Architectural- Building/Site-Name	
	Context- Historical/		Context-Architectural-	1
	Common Core	Common Core     CDWA Elements       Subject Matter- Interpretation     Subject Matter- Interpretation- Indexing terms B       ✓     Subject Matter- Interpretation- Indexing terms B       ✓     Subject Matter- Interpretation- Indexing terms B       ✓     Subject Matter- Subject Matter- History       ✓     Subject Matter- Interpretation- Indexing terms B       ✓     Subject Matter- Subject Matter- Subject Matter- Context- Interpretation       Image: Context of the second Context - Historical/Cultural       ✓     Context- Context- Historical/ Cultural- Event Type	NDAP Common Core     CDWA Elements     Common Core       Subject Matter- Interpretation- Interpretation- Indexing terms II     -       ✓     Subject Matter- Interpretation- Indexing terms II     -       ✓     Subject Matter- Interpretation- Indexing terms II     -       ✓     Subject Matter- History     -       ✓     Subject Matter- Citations     -       I     Subject Matter- Citations     -       I     Subject Matter- Citations     -       I     Context- Historical/Cultural     ✓       ✓     Context- Historical/ Cultural- Event Type     -       ✓     Context- Historical/     -	NDAP Common Core     CDWA Elements     Common Core       Subject Matter- Interpretation     Context- Historical/ Cultural- Place       Subject Matter- Interpretation- Indexing terms B     Context- Historical/ Cultural- Agent- Identity       Subject Matter- Interpretation- Indexing terms B     Context- Historical/ Cultural- Agent- Identity       Subject Matter- Interpretation- Indexing terms B     Context- Subject Matter- History       Subject Matter- Subject Matter- Interpretation- Indexing terms B     Context- Subject Matter- Interpretation- Indexing terms B       Subject Matter- Subject Matter- Subject Matter- Context- Subject Matter- Subject Matter- Subje

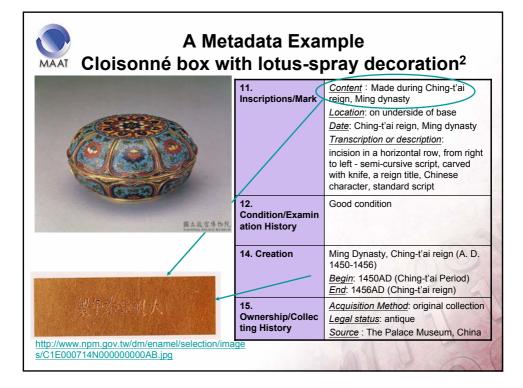
	• •	A Intersection		ategories <sup>6</sup>	
CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core	CDWA Elements	NDAP Common Core
Context-Architectural-		Context-Remarks	1	Exhibition/Loan History- Venue-	1
Building/Site-Type		Context-Citations		Dates	
Context-Architectural-				Exhibition/Loan History- Object Number	
Building/Site-Place		20. Exhibition/Loan			1
Context-Architectural-		History		21. Exhibition/Loan History- Remarks	*
Placement		Exhibition/Loan History-	✓	Exhibition/Loan History-	1.597
Context-Architectural-Date		Title or Name		Citations	
		Exhibition/Loan History- Curator	1	21.Related Works	
Context-Archaeological	1	Exhibition/Loan History-	1		
Context-Archaeological- Excavation Place	1	Organizer		Related Works- Relationship	1
Context-Archaeological-	1	Exhibition/Loan History- Sponsor	1	Туре	1
Excavation Place-Site		Exhibition/Loan History-		Related Works-Relationship Number	1
Context-Archaeological-	1	Venue		Related Works- Identification	1
Excavation Place-Site Part		Exhibition/Loan History-	<b>√</b>	Related Works- Identification-	
Context-Archaeological- Excavation Place-Site Part	<b>*</b>	Venue-Name		Creator	
Date		Exhibition/Loan History-	1	Related Works- Identification-	
Context-Archaeological-	<b>✓</b>	Venue-Place		Creator- Qualifier	

	Intersection		egories <sup>7</sup>	
NDAP Common Core	CDWA Elements	NDAP Common Core	CDWA Elements	NDAF Commo Core
	Related Works- Remarks Related Works- Citations	<b>✓</b>	Related Visual Documentation-Image Color	
×	22. Related Visual		Related Visual Documentation-Image View	1
✓	Documentation		Related Visual Documentation-Image View-Indexing terms	1
✓	Related Visual Documentation- Relationship Type		Related Visual Documentation-Image	1
	Related Visual	1	Ownership	
*	Documentation- image Type Related Visual	1	Related Visual Documentation-Image Ownership-Owner's Name	1
1	Documentation- Measurements	2 .	Related Visual	1
	Related Visual Documentation-	1	Documentation-Image Ownership-Owner's Number	0
•	Measurements-Value Related Visual Documentation-		Related Visual Documentation-Image	1
1	Measurements-Unit			
	Related Visual Documentation-Image	1	Documentation -Image Source-Name	
×	Format		Related Visual	1
	NDAP Common Core	NDAP Common Care       CDWA Elements         Related Works- Remarks       Related Works- Citations         Image: Common Care       22. Related Visual Documentation- Related Visual Documentation- measurements         Image: Commentation comments       Related Visual Documentation- Measurements-Value         Image: Commentation comments       Related Visual Documentation- Measurements-Value	NDAF Common Core     CDWA Elements     NDAF Common Core       ✓     Related Works- Remarks     ✓       ✓     Related Works- Citations     ✓       ✓     Documentation- Related Visual Documentation- Related Visual Documentation- ingentation- Related Visual Documentation- Measurements- Measurements-Value     ✓       ✓     Related Visual Documentation- Measurements-Value     ✓	NDAP Common Corre     CDWA Elements     NDAP Common Core       Y     Related Works- Remarks     Y       Related Works- Citations     Image: Color       Y     Related Works- Citations     Image: Color       Y     Related Visual Documentation-Image Type     Related Visual Documentation-Image Ownership-Owner's Name       Y     Related Visual Documentation-Image Type     Y       Y     Related Visual Documentation-Image Type     Y       Related Visual Documentation-Image Type     Y       Related Visual Documentation-Image Type     Y       Related Visual Documentation-Image Ownership-Owner's Name     Related Visual Documentation-Image Ownership-Owner's Name       Related Visual Documentation-Image Ownership-Owner's Name     Related Visual Documentation-Image Ownership-Owner's Name       Related Visual Documentation-Image Documentation-Image Ownership-Owner's Name     Related Visual Documentation-Image Ownership-Owner's Name       Related Visual Documentation-Image Documentation-Image Documentation-Image Source     Related Visual Documentation-Image Source

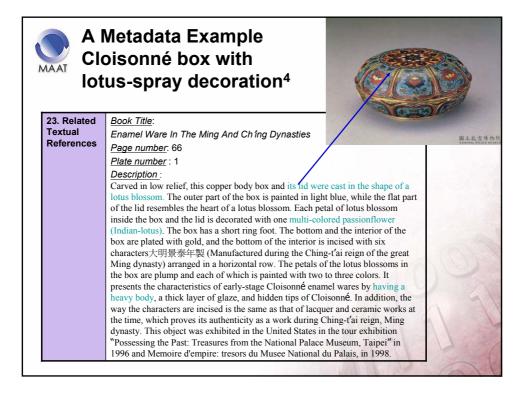


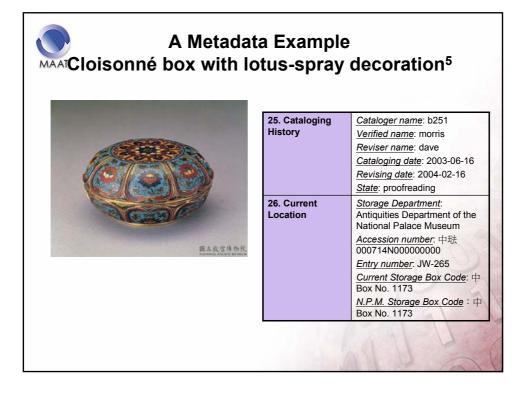
MAAT	The List of None Adopted Categories
	CDWA Elements
	5. State
	State- Identification
	State- Remarks
	State- Citations
	RAT

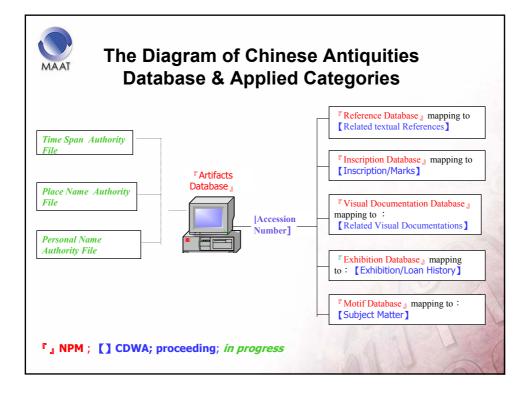


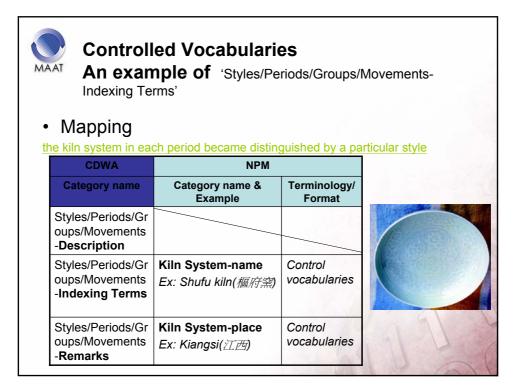


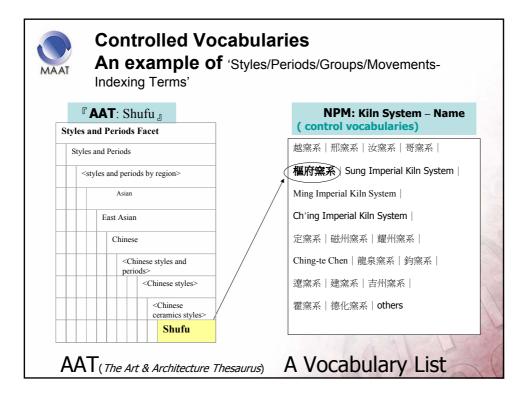
	A Metadata Ex ox with lotus-	ample spray decoration <sup>3</sup>
	16. Copyright/Restrictions	National Palace Museum, Taipei, R.O.C.
	18. Subject Matter	Plant – flower - passionflower (Indian-lotus)
EARS AND	<del>20. Exhibition/Load</del> History	1.Possessing the past : treasures from the National Palace Museum, Taipei (1996) 2.Memoire d'empire : tresors du Musee National du Palais, Taipei.(1998) 3.The exhibition of enamel ware in the Ming and Ch'ing dynasties (1999) 4.Schätze der Himmelssöhne : die kaiserliche sammlung aus dem Nationalen Palastmuseum Taipeh (2003)
	22. Related Visual Documentation	Original Type/Format: 4 x 5 positives File name: C1E000714N00000000AA Whole/Part: Whole Preferred: preferred <u>Restrictions</u> : open to the public

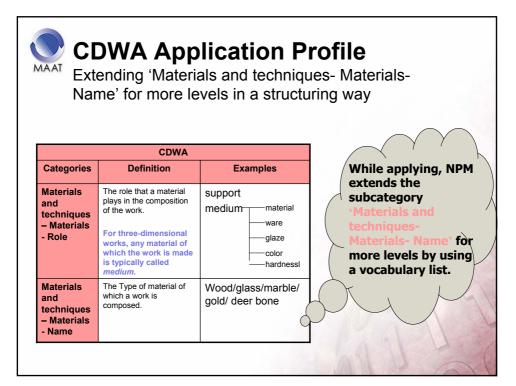














#### **CDWA Application Profile**

A Vocabulary List of Material 1

Layer 1	Layer 2	Layer 3
Animal	Shell貝	硨磲   蚌殻
動物	Teeth牙	Ivory象牙 野豬牙
	甲	玳瑁
	Bone骨	染骨
	Horn角	犀角 牛角 鹿角
	Leather皮	
	毛	貂皮
	羽	
Plant 植物	Wood木	沉香木 伽楠木 padauk 紫檀木 boxwood黃楊木 birch樺木  mahogany紅木 sandal wood檀香木 vine藤
10127	Bamboo竹	A A A A A A A A A A A A A A A A A A A
	Lacquer漆	
	Cling果實	gourd葫蘆 椰殻 coconut椰子
	Nutlet果核	橄欖核 桃核 核桃核
	Paper紙	粉紙 臘箋紙 藏經紙
	Incense香	
	Ink墨	

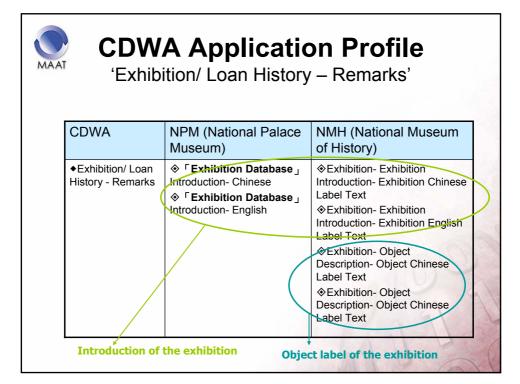


### **CDWA Application Profile**

A Vocabulary List of Material 2

	N	IPM- Material
Layer 1	Layer 2	Layer 3
Mineral礦物	Metal金屬	gold金   silver銀   cooper詞   bronze 青銅   brass黃銅   iron 鐵   tin錫   alloy合金   gilding鍍金   silver plate鍍銀   others 其他金屬
	Gem and Jewelry 玉石珠寶	輝石玉   角閃玉   jade玉石   蛇紋石   松花石   端石   歙石   marble大理石   壽山石   青田石   昌化石(雞血)   礦綠石   楚 石   房山石   洮河石   雘村石   fossi化石   ruby紅色寶石   sapphire藍色寶石   quart石英   crystah太晶   amethys紫晶 t   茶晶   玫瑰水晶(芙蓉石)   髮晶   agate瑪瑙   jaspe霄玉   chalcedony玉髓   碧璽   peari珍珠   彩珠珠   白米珠   coral 珊瑚   amber琥珀   蜜醋   金珀   lapis lazul青金石   松綠 石   diamond鑽石   emerald祖臣綠   chatoyant貓眼石   malachite   spinel孔雀石   石榴子石   vermei硃秒
	Ceramics陶瓷	
	Glass玻璃	單色玻璃 套色玻璃 金星玻璃 其他玻璃
Others其他材質		
Unknown材質不明		

CDW/ Sevres		Profile Examples Jade pi-hsieh chimera	
	CDWA	NPM	
Categories	Example 1	Example 1	
Materials and techniques – Materials - Role	medium	medium	
Materials and techniques – Materials - Name	gold	Mineral Gem and Jewelry Jade	1 1 1
		ALVA	-

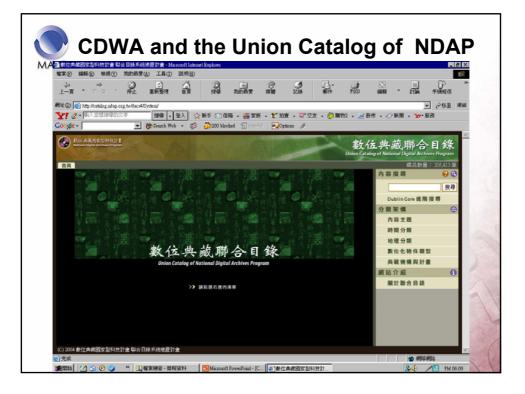




### **CDWA Application Profile**

'Creation- Date'

CDWA	NPM (National Palace Museum)	Examples
◆Creation – Date	♦ <sup>Γ</sup> Artifact Database J Time- Table of the Chinese Dynasties- Display	◆明成祖永樂2年(Ming, Chengzu, the second year of Yongle)
		◆西元1404(1404AD)
◆Creation – Date- Earliest Date	♦ F Artifact Database J Time- Table of the Chinese Dynasties- Search- Begin- Dynasty-	◆明(Ming)
	Dynasty ♦ 「Artifact Database」 Time- Table of the	◆早期(early Period)
	Chinese Dynasties- Search- Begin- Dynasty- Period	◆成祖(Chengzu)
	♦ Artifact Database J Time- Table of the Chinese Dynasties- Search- Begin- Dynasty- Emperor	· )>0/121(9)
	♦ F Artifact Database J Time- Table of the Chinese Dynasties- Search- Begin- Dynasty-	◆永樂(Yongle)
	Reign	



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<b>谷初主地</b> 書畫主題	<ul> <li></li></ul>	Arc	nives ③ 器物主題 > 木竹漆器、玉石器、其他	Artifacts
地圖與遙測影像主題	100000000000000000000000000000000000000			
拓片主题	<ul> <li>○ 書畫主題</li> <li>&gt; 委法、検索</li> </ul>	CalligraphyPair	nting ③ 地圖與透測影像主题 > 基本地影響資料	Maps & Remote Images
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OBJECT/ WORK (core)	,	corecuirgorits	-	$\langle \rangle$				
Object/ Work - Catalog Level					-	Document Classification- Catalogue Level (core) Document Classification-Group Type	-	LEVE
ObjectWork-Type (core)	Work Type	Туре	655 Genre-Form	Туре	Type of Object		object NAME	<corr< td=""></corr<>

CDWA Metadata Star	dards Crosswalk	NDAP UNION CATALOG-Chinese Antiquities			
CDWA	Dublin Core	CDWA	Dublin Core	Antiquities	
Object/Work-Type(Core)	Туре	Object/Work-Type	Туре	[Type]	YES
Object/Work-Components	Format.Extent				
CLASSIFICATION (core)	Subject				
ORIENTATION/ ARRANGEMENT	Description				
TITLES OR NAMES (core)	Title	TITLES OR NAMES (core)	Title	[Object Title]	YES
Measurements- Dimensions	Format.Extent (schema)	[Measurements- Dimensions	Format	[Measuremen ts-Dimensions]	YES
Measurements- Scale	Format.Extent (Schema)				
Materials and Techniques- Materials	Format.Medium				0
PHYSICAL DESCRIPTION	Format.Medium			((0))	
INSCRIPTIONS/ MARKS	Description	INSCRIPTION/MAR KS – AUTHOR	Contributor	[Inscription- Author]	NO
CONDITION/ EXAMINATION HISTORY	Description		10	131	
CONSERVATION/ TREATMENT HISTORY	Description		1 CA	1100	2

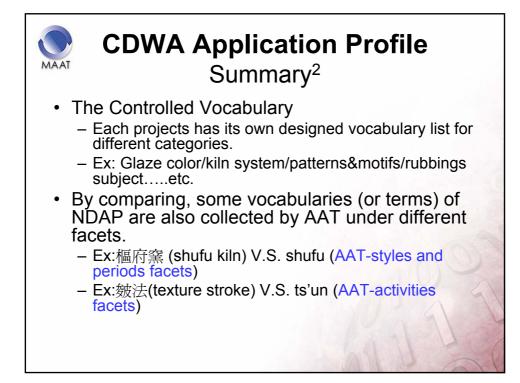
CDWA Metadata Standards Crosswalk		NDAP UNION CATALOG-Chinese Antiquities			Compare
CDWA	Dublin Core	CDWA	Dublin Core	Antiquities	
Creation-Creator - Identity (core)	Creator	CREATION – CREATOR	Creator	[Creation- Creator]	YES
Creation-Creator - Identity-Dates	Creator string				
Creation-Date (core)	Date.Created	CREATION - DATE	Date	[Time- Chronology- Display]	YES
Creation-Place/ Original Location	Subject or Coverage.Spatial			1.1.1	
Creation-Commission- Commissioner	Contributor		1075		1
Ownership/Collecting History-Description	Source				
Ownership/Collecting History-Owner	Source		1.80	N A	(0)
COPYRIGHT RESTRICTIONS	Rights	COPYRIGHT/REST RICTIONS – HOLDER NAME	Rights	[Copyright]	YES
STYLES/PERIODS/ GROUPS/ MOVEMENTS	Subject or Coverage.Temporal			14	
Subject Matter-Description	Description.Abstract		and the second		

# CDWA Crosswalk & NDAP Union Catalog (DC) Compare 3

CDWA Metadata Standards Crosswalk		NDAP UION CATALOG-Chinese Antiquities			Compare
CDWA	Dublin Core	CDWA	Dublin Core	Antiquities	
Subject Matter-Description Indexing Terms (core)	Subject or Coverage.Spatial or Coverage.Temporal				
Subject Matter- Identification- Index Terms (core)	Subject or Coverage.Spatial or Coverage.Temporal				
Context- Architectural	Subject or Coverage.Spatial				
Context- Archaeological	Subject or Coverage.Spatial				N.
EXHIBITION/ LOAN HISTORY	Description		a dia		1º
RELATED WORKS	Relation		in Set	Nº In	11
Related Works-Relationship Type	Relation			110	
Related Works-Identification	Relation		a lassa	12-2	1
Related Visual Documentation- Relationship Type	Relation.lsFormatOf	1.59	The Mars	415	11

CDWA Metadata Standards Crosswalk		NDAP UNION CATALOG-Chinese Antiquities			Com
CDWA	Dublin Core	CDWA	Dublin Core	Antiquities	pare
Related Visual Documentation- View	Title.Alternative Description. TableOfContents Description.Abstract				
Related Visual Documentation- View-Indexing Terms	Subject				
Related Visual Documentation View-Subject	Subject				
Related Visual Documentation- Image Source- Number	Resource Identifer or Source				
RELATED TEXTUAL REFERENCES	Relation.IsReferencedBy	RELATED TEXTUAL REFERENCES - REMARKS	Description	[Catalog – Description]	NO
		RELATED TEXTUAL REFERNECES – IDENTIFICATION	Relation	[Catalog- Catalog Title]	YES
CRITICAL RESPONSES	Relation.lsReferencedBy		E. Mars	1	
CATALOGING HISTORY	Relation.lsReferencedBy		and the second second	6	
Current Location- Repository Number (core)	Resource Identifier	Current Location- Repository Number	Identifier	[Accession Number]	YES
DESCRIPTIVE NOTE	Description		A A		

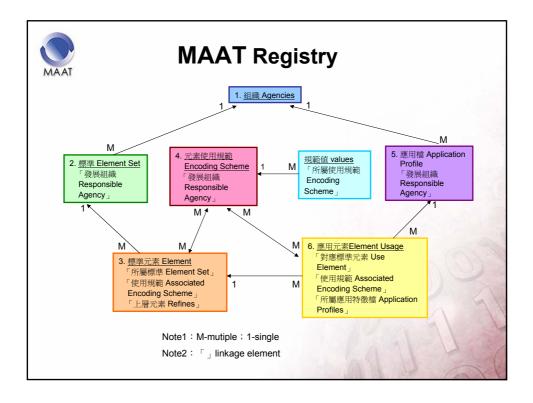






# **Ongoing and Future Work**

- Knowledge Organization System
  - Thesaurus development
  - Ontology (Conceptual Model)
    - IFLA FRBR (Functional Requirement of Bibliographical Record)
    - CIDOC CRM (Conceptual Reference Model)
- Publish metadata standards in Chinese
  - CDWA, LOM, EAD...etc. (13<sup>+</sup>)
- Interoperability
  - NDAP-based CDWA XML DTD
  - Metadata Registry



CRAAT	Metadata Registry	at MAAT	Chir
Index			
1. Agency (Ex: GettyInstitution > National Palace	e Museum)		
Agency	Browse	<u>Search</u>	
2. Encoding Scheme (Ex: Value list)			
Encoding Scheme	Browse	<u>Search</u>	
3. Element Set (Ex: CDWA、EAD)			
Element Set	Browse	<u>Search</u>	
Element	Browse	<u>Search</u>	
4. Application Profile (Ex: NPM Digital Archive I	Project, Academia Hostorica Goverr	nment Archive)	
Application Profile	Browse	<u>Search</u>	
Element Usage	Browse	<u>Search</u>	
<u>Catalogue Interface</u>			
			11 2



# Selected Publication<sup>1</sup>

- Chen, Y.-N., Chen, S.-J., Chiang, H.-Y., & Liu, C.-H. (2000). A case study in designing Chinese metadata. *Online Information Review*, 24(3), 229-233.
- Chen, Y.-N., & Chen, S.-J. (2001). A practical metadata approach towards Chinese rubbings. Paper presented at *The Digital Resources for the Humanities*, 8-10 Jul. 2001.
- Lin, S.C., Chen, Y-.N., & Chen, S.-J. (2001). A Metadata Case Study for the FRBR model based on Chinese painting and calligraphy at the National Palace Museum in Taipei. Paper presented at 2001 Dublin Core: International Conference on Dublin Core and Metadata Applications, 22-26 Oct. 2001.
- Chen, Y.-N., Lin, S.C., & Chen, S.-J. (2002). An application practice of the IFLA FRBR model: A metadata case study at the National Palace Museum in Taipei. In *Proceedings of the* 65th Annual Meeting of the American Society for Information Science & Technology (pp. 181-193), 18-21 Nov. 2002.



# **Selected Publication<sup>2</sup>**

- Chen, Y.-N., Chen, S.-J., & S.C. Lin. (2003). A metadata lifecycle model for digital libraries: Methodology and application. Paper presented at *The World Library and Information Congress: 69th IFLA General Conference and Council*, 1-9 Aug. 2003.
- Chen, Y.-N., Chen, S.-J., Sum, H.-C., & S.C. Lin. (2003). Functional requirements of metadata system: From user needs perspective. Paper presented at 2003 Dublin Core: Supporting Communities of Discourse and Practice: Metadata Research and Application, 28 Sep. – 2 Oct. 2003.
- Chen, Y.N.& Chen, S.J. (2004). A metadata practice of the IFLA FRBR model: A case study for the National Palace Museum in Taipei. *Journal of Documentation*, 60(2), 128-143.

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