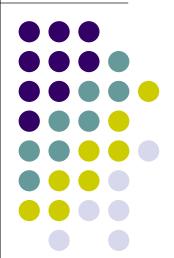
#### dLOC Toolkit

#### Mark V. Sullivan

Solutions Developer, University of Florida Libraries
Programmer and Trainer, Digital Library of the Caribbean
MarSull@uflib.ufl.edu





Final Web Product

UF Digital Library Center Processes

Digital Library of the Caribbean [dLOC]

dLOC Toolkit

### **UF Digital Library Center**



- Established about 1998 from Preservation Dept.
- Slowly increased in capacity and content through grants, endowments, and library funds.
- As of 2007...
  - ~10 TB's of internally created data
  - ~20 TB's of vendor data





#### Format migration

- Image format for service
- Metadata format

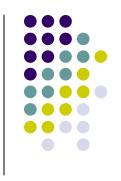
- Other changes
  - Software
  - Hardware
  - Processes

#### How to cope...

- Embraced Standards
  - Image Standards
    - GIF → JPEG
    - DjVu, SID → JPEG2000
    - TIFF
  - Metadata Standards
    - Dublin Core
    - METS
    - MODS



#### How to cope...



- Embraced Open-Source Software
  - Look for 'market share'
  - Look for active community
  - May have steep learning / customization curve
  - May have to build upon or contribute to software
- Tried to remain agile

## **UF Digital Library Center**

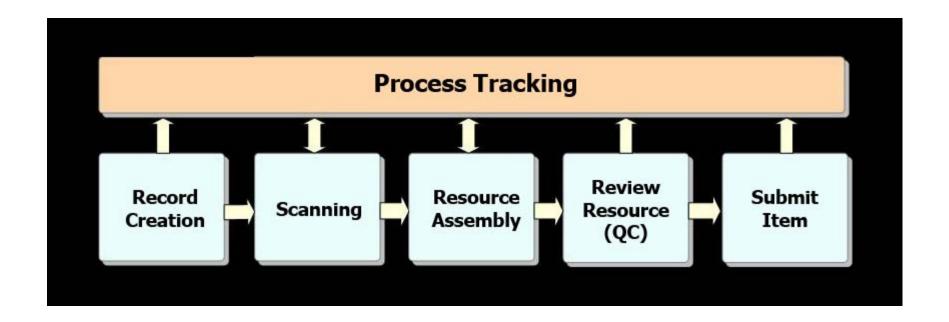


- Standards
  - TIFF archival image
  - JPEG and JPEG2000 service copies
  - METS / MODS metadata formats

- Software
  - Greenstone Digital Library Software
  - No appropriate process software

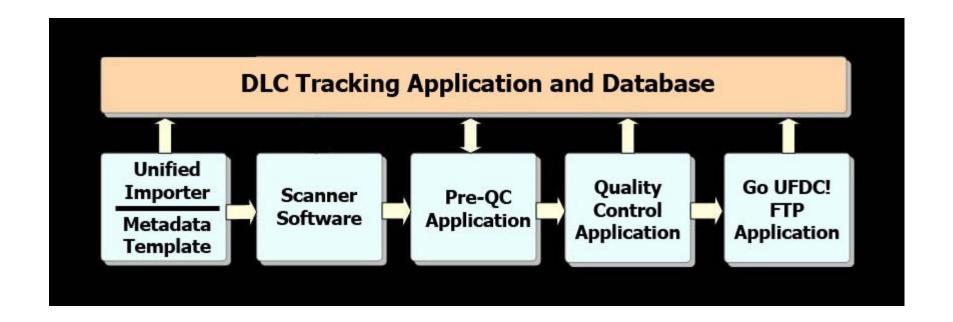
#### **Process Development**



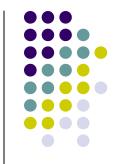


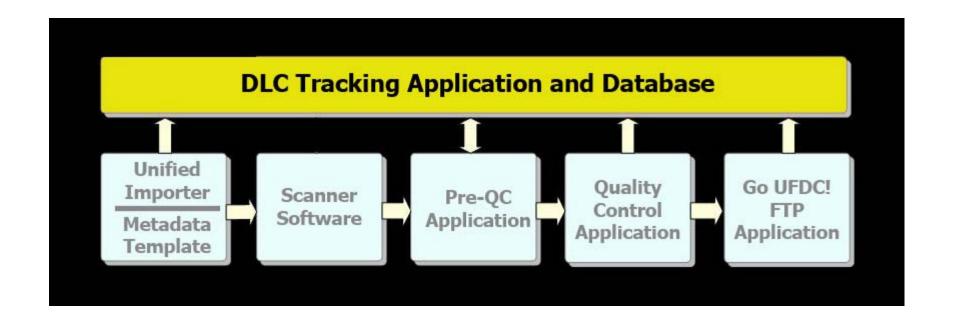
## **Application Development**





## **Tracking Database Application**





## **Tracking Database Application**



- Basic item information
  - Title
  - Author
  - Publisher
  - Copyright Permissions
- Digitization Status and History
- Archive Information (CD → DVD Archives)



File Edit Subjects Archives Reports Browse Help

#### Digital Library Tracking Database Main Form

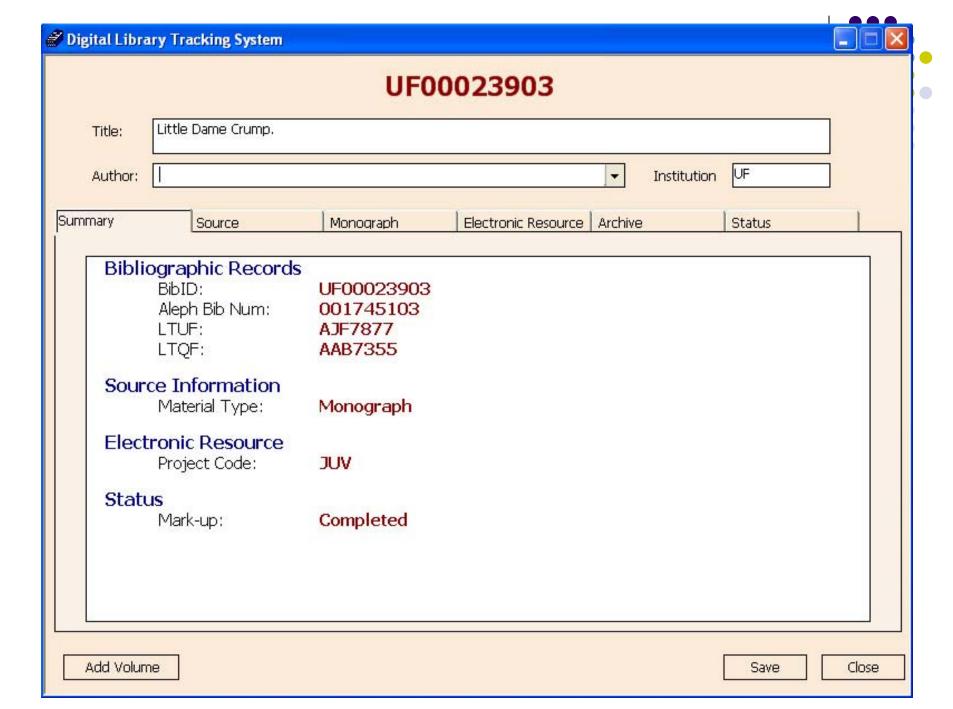
BibID	•	LTQF	LTUF	Aleph	Title	Author
UF00003	666	AAA5147	NONE		Gainesville, Florida : showing the University of Florida main campus	8
UF00004	690	AAA5973	APC4753		Map of Gainesville, Florida /	
UF00015	236	AAA7853			National Wetlands Reconnaissance Survey. Gainesville, Florida	U.S. Fish and Wi
UF00016	763	AAA9430			Greater Gainesville area precinct map, 1986	
UF00016	764	AAA9431			Gainesville bikeway system 1989	
UF00017	143	AAA9758			Gainesville, Florida, urban area : drawn 1979.	
UF00017	145	AAA9760			Urban area : Gainesville, Alachua County 1975	88
UF00017	146	AAA9761			Urban area : Gainesville, Alachua County 1975	
UF00017	147	AAA9762		Urban area : Gainesville, Alachua County 1975		8
UF00017	252	AAA9881			Alachua County proposed comprehensive plan 1995 unincorporated	
UF00018	404	AAB0246			FIRM, flood insurance rate map, Gainesville, Florida, Alachua County	8
UF00018	00018405 AAB0582 FIRM, flood insurance rate map, Gainesville, Florida, Alachua County					
UF00018	406	AAB0583			FIRM, flood insurance rate map, Gainesville, Florida, Alachua County	8

Limit results by:		
○ Institution		-
Project	МАР	-
◯ Show All		

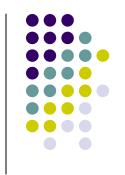
Title	Title ▼		Gainesville		
d Bib ID	-				

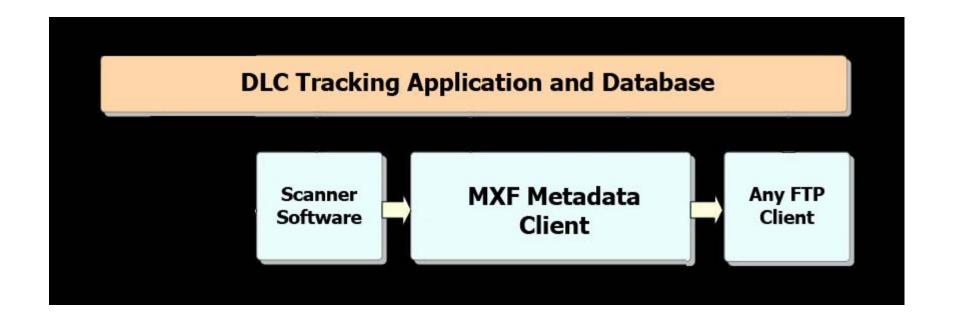
Total hits count = 34

Exit

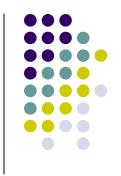


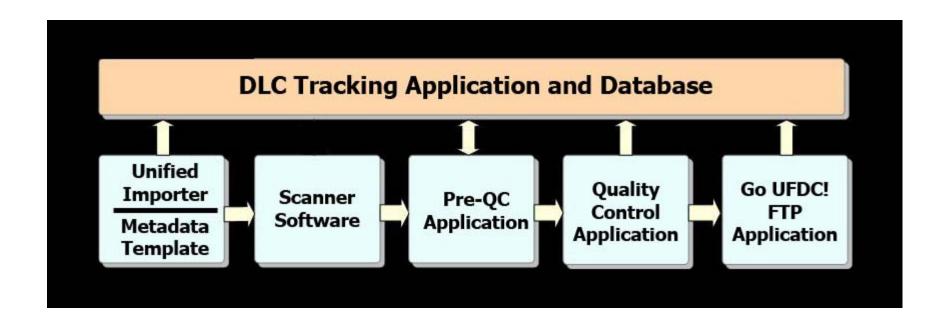




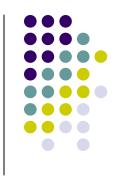


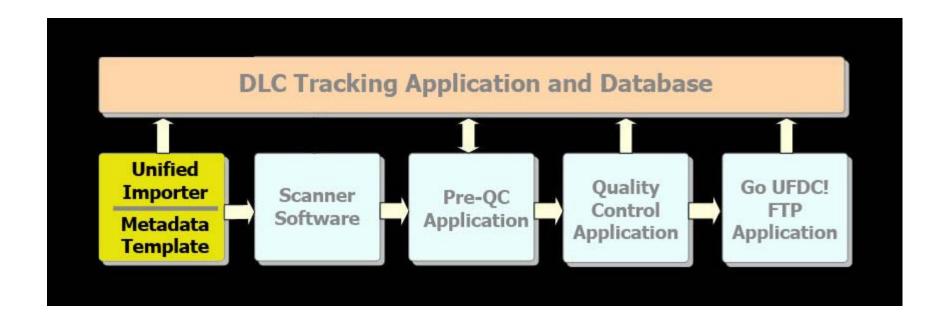
#### **Newer Process**



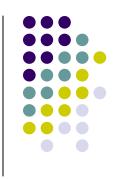


#### **Record Creation**

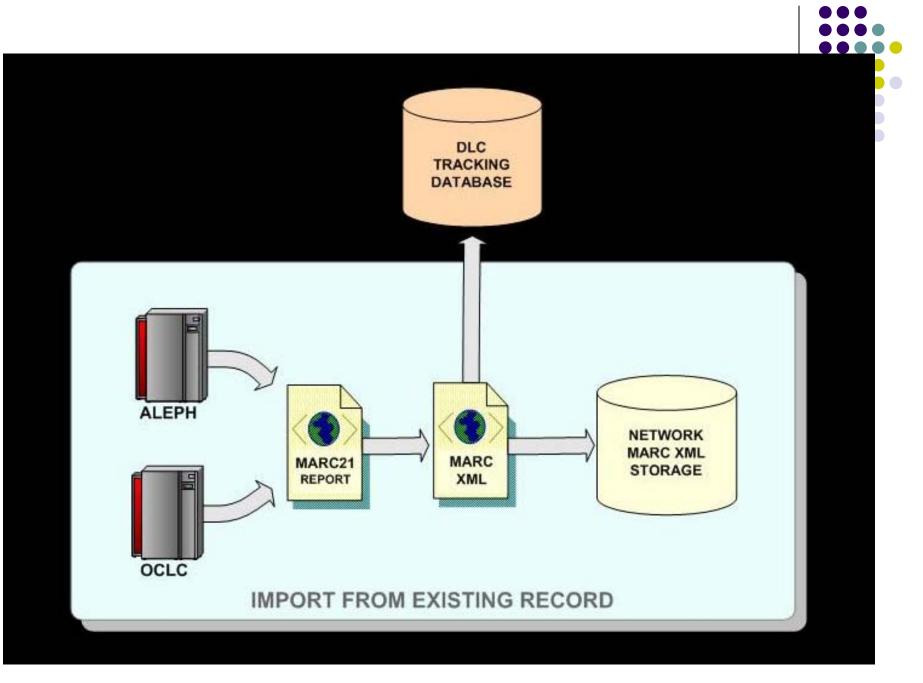




## **Unified Importer**



- Imports from existing records or data
  - MARC records (NOTIS, ALEPH, OCLC)
  - Excel Spreadsheets
  - Existing metadata (METS) files
- Saves data on network and in Tracking database

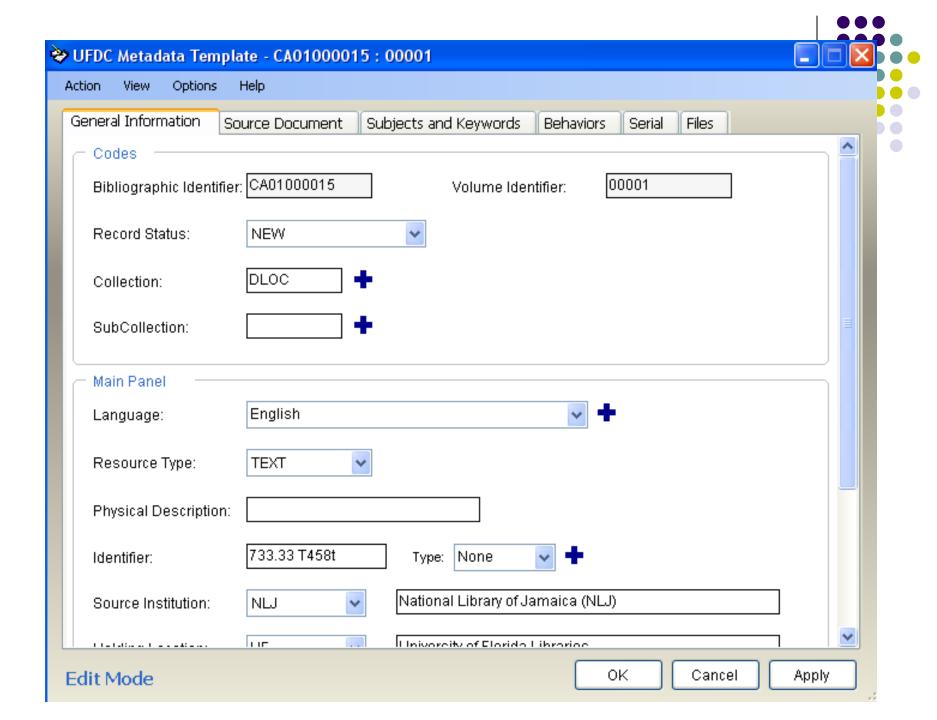


### **Metadata Template**

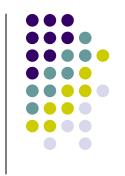


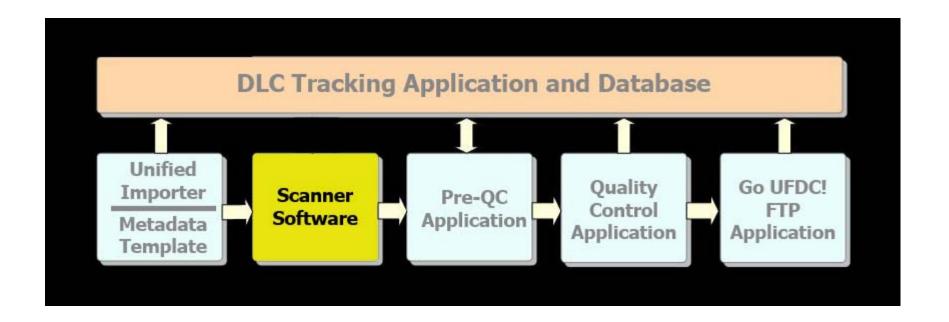
- Uses
  - Enrich existing records
  - Create new records
  - Edit data for online items

- Saves data as METS file
  - Network location
  - FTP back to online presence







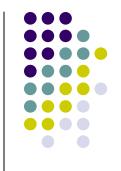


#### **Digitization Software**



- Scanning
  - Adobe Photoshop
  - Scanner-specific software
- Image Capture
  - Copibook Scanning Software
  - Digital Cameras
- Other types of digitization
  - Audio / Video
  - Vendors (microfilm)

## **Scanning Specifications**



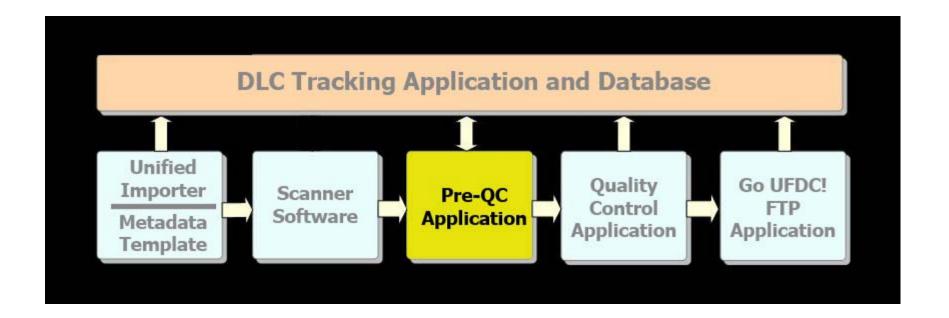
Save as uncompressed master TIFF

Color, Grayscale, Bitmap (black and white)

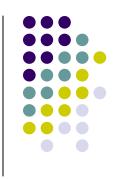
- DPI
  - Photographs, Postcards, Images: 600 dpi
  - Textual items : 300 dpi
  - Use your judgement

#### **Resource Assembly**





#### **Pre-QC Application**



- Assemble bibliographic metadata
  - MARC XML (Unified Importer)
  - Existing METS (Metadata Template, online)
  - Tracking Database
  - Project specific data

### **Pre-QC Application**



- Assemble file information
  - Scanned master TIFFs
  - Checksums performed
- Structural Metadata (Table of Contents)
  - All pages linked to one chapter
  - TOC will be built in next step
- Update Tracking Database

#### **Pre-QC Application**



Create image derivatives

QC.jpg

~315 pixels wide

.jpg

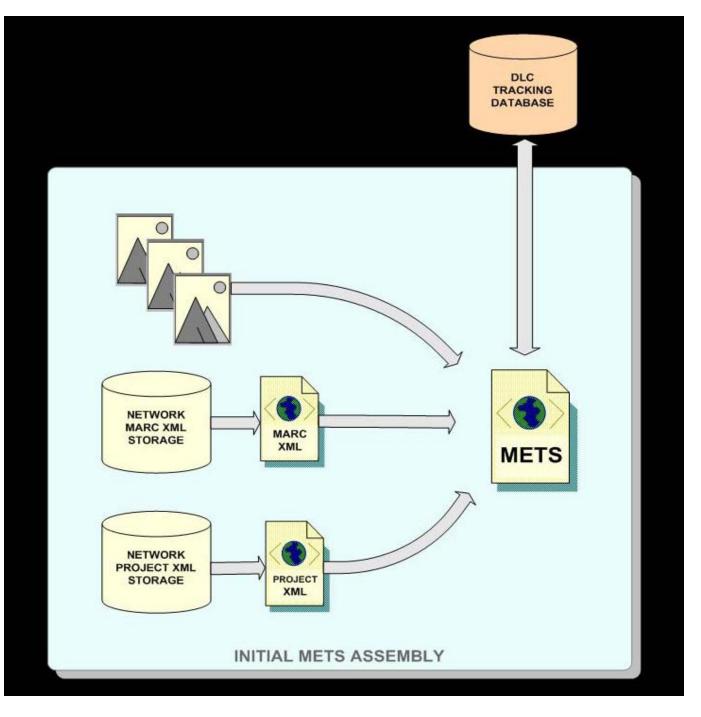
~630 pixels wide

thm.jpg

~150 pixels wide

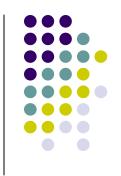
• .jp2

zoomable image



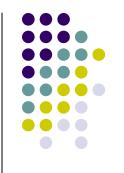


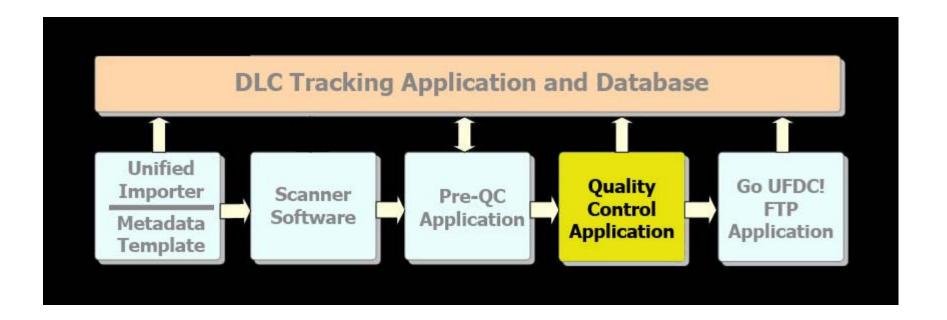




O Digital Library PreQC Application						
Actions Options Help						
Current Volume:	UF00082526:VID00001 (1 of 5)		_			
Current Task:	Calculating Checksums					
	2000 000 000 00 00 00 000 000 000 000 0					
		Process	Exit			

#### Review Resource (QC)

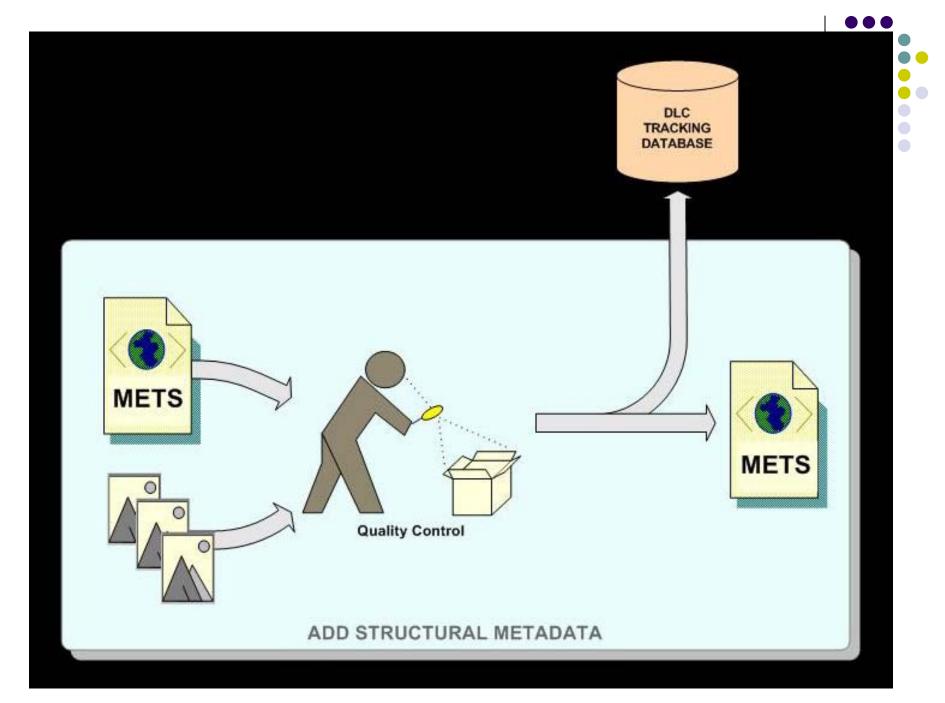




## **Quality Control Application**



- Visually...
  - Inspect (and correct) any image issues
  - Ensure metadata and images match
  - Ensure pages in correct order
- Structural metadata
  - Define page names
  - Define divisions or chapters
- Update Tracking Database





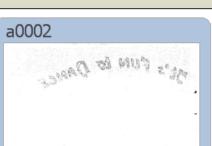
#### Opigital Library Quality Control Application - CA01000015 : 00001

Package Page Edit View Help

a0001

#### It's fun to dance the Haitian meringue

FUN to DANCE



the HAITIAN MERINGUE **JERRY THOMAS** 

Pagination:

CAMOS

Division: Front Cover

a0003

. OF THE HAITIAN MERINGUE

THEORY

JERRY C. THOMAS 68-31549

"JERRY'S DANCE STUDIO"



Page 1 Pagination:

Division: 🗸 Title Page Pagination: Page 2

a0004

Division: Title Page









a0005

Pagination:

Division: <a> Front Cover</a>

Foreword

a0006

**Notes** 

a0007

HAITIAN MUSIC stems directly from African Rhythms. Divested of mysticism, its traditions and beliefs from the folklore basis from which the Haitian Mesingue, the a0008

Nage Dance

Mais Dance Quita Dance Dahomey Dance

Petro Dance Martinique Dance Banda Dance

Critical Volume Error:

No Volume Level Error

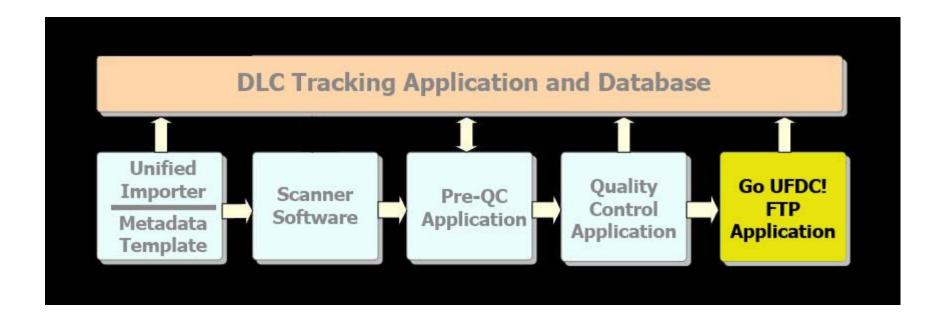




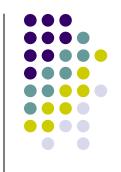








# **Final Preparation**



 Optical Character Recognition [OCR] performed on the images

Metadata manually reviewed

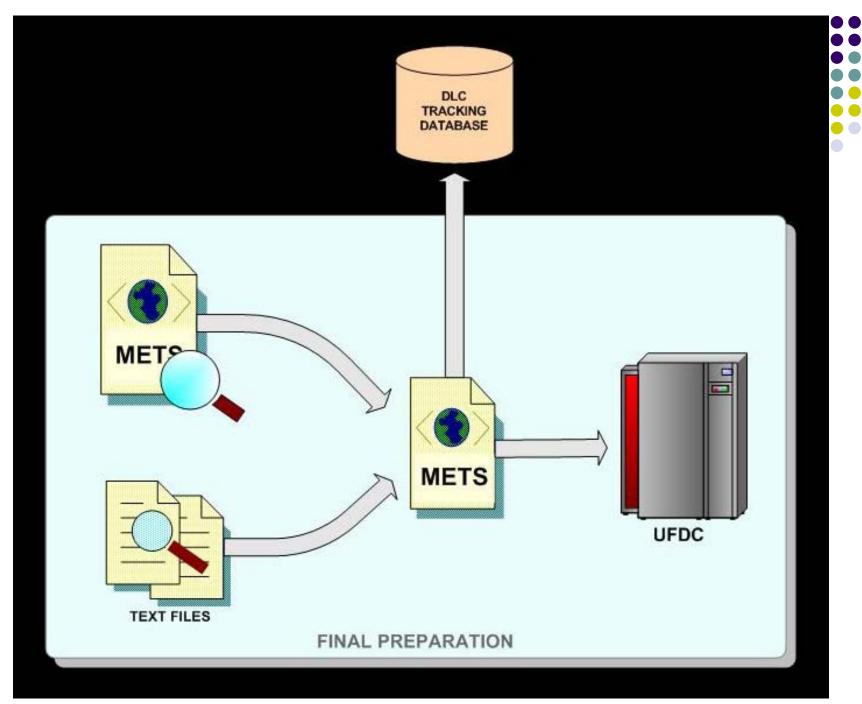
 Any additional project-level enhancement completed

#### Go UFDC! FTP Client



- Automatic final preparation
  - Text images added to the resource package
  - Page naming reviewed and revised
  - Final metadata file validated against schemas
- Item FTP'd to online presence (UFDC)

Update Tracking Database



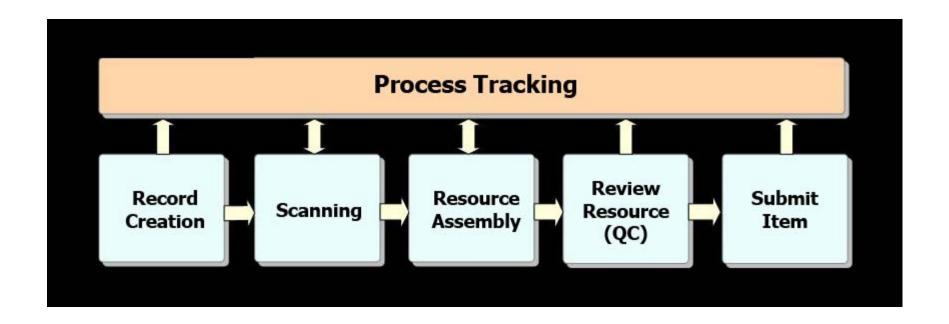




tions Tools FD/	Preferences Help	
Folder:	C:\Documents and Settings\Mark\Desktop\TEST\QC\Final	
Current Volume:	CA01000015_00001 [1 of 1]	
Current Task:	Reading METS File	
Progress:		
	Cancel	METS Only!

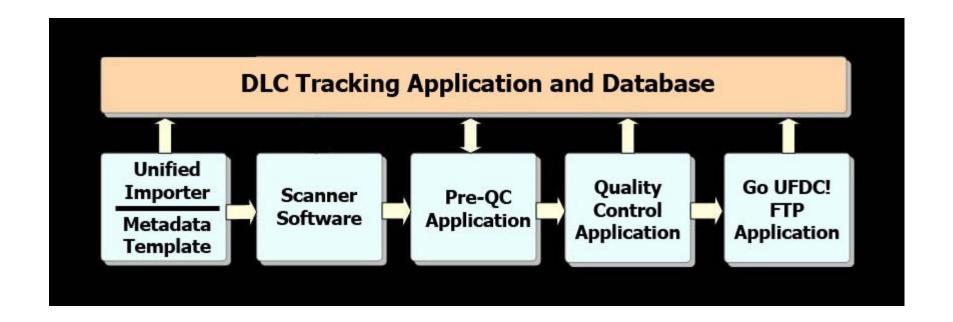














- Timeline
  - 1998 : Conceived
  - 2000 : Building Partnerships
  - 2004 : Grant received from U.S. Department of Education



#### Concept

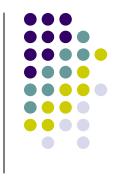
- Provide a digital voice to those institutions in the Caribbean who wished to contribute
- Build infrastructure through equipment and training throughout the Caribbean
- Assist in digital preservation of the resources threatened materials



- Original Partners
  - Archives Nationales d'Haiti
  - CARICOM
  - La Fundación Global Democracia y Desarrollo
  - National Library of Jamaica
  - Universidad de Oriente, Venezuela
  - University of Virgin Islands
  - Florida International University
  - University of Central Florida
  - University of Florida

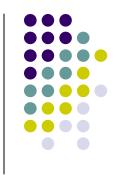


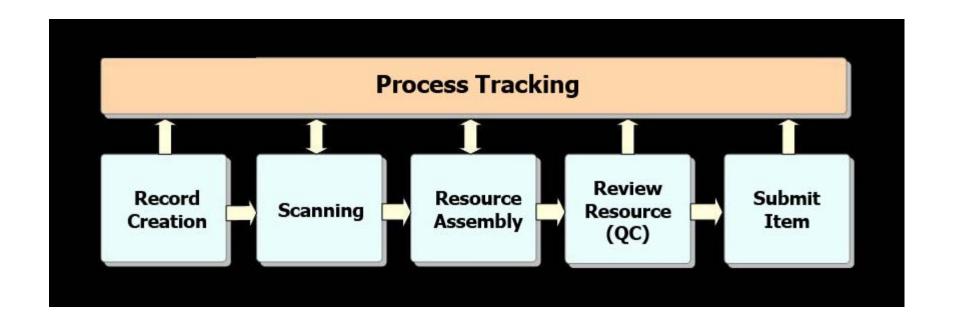
- New Partners
  - Archives Nationales d'Haiti
  - Bibliotheque Hatienne des Peres Saint-Esprit
  - CARICOM
  - The College of the Bahamas
  - La Fundación Global Democracia y Desarrollo
  - National Library of Aruba \*
  - National Library of Jamaica
  - Pontificia Universidad Catolica Madre y Maetsra (D.R.) \*
  - Universidad de Oriente, Venezuela
  - University of Virgin Islands
  - Florida International University
  - University of Central Florida
  - University of South Florida
  - University of Florida



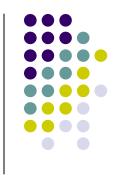
- University of Florida Technological Role
  - Create distributed tool for resource creation and submission
  - Assist with general digitization training
  - Create and maintain web presence
  - Submit resources to dark archive for partners

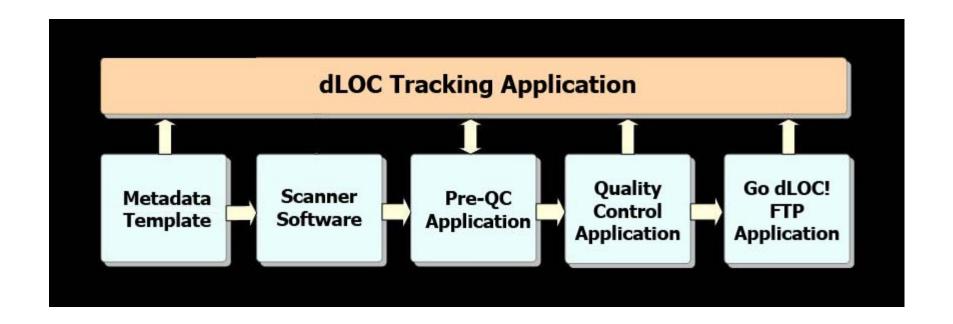


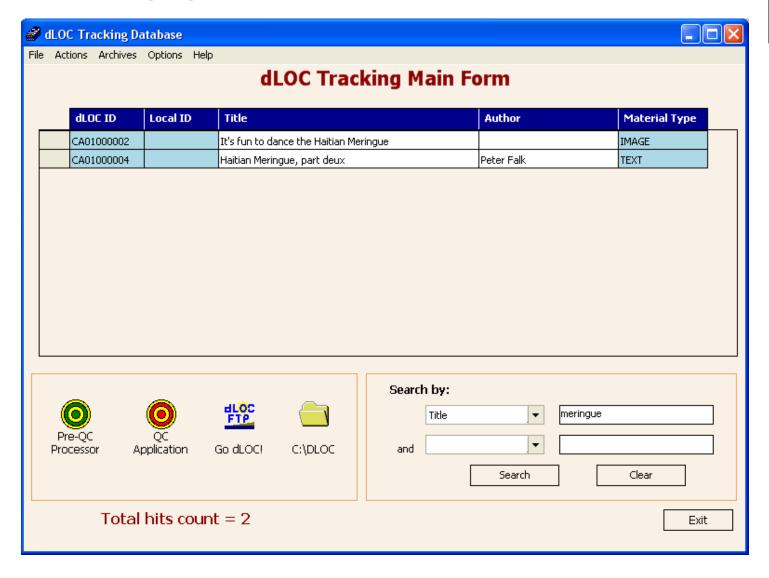












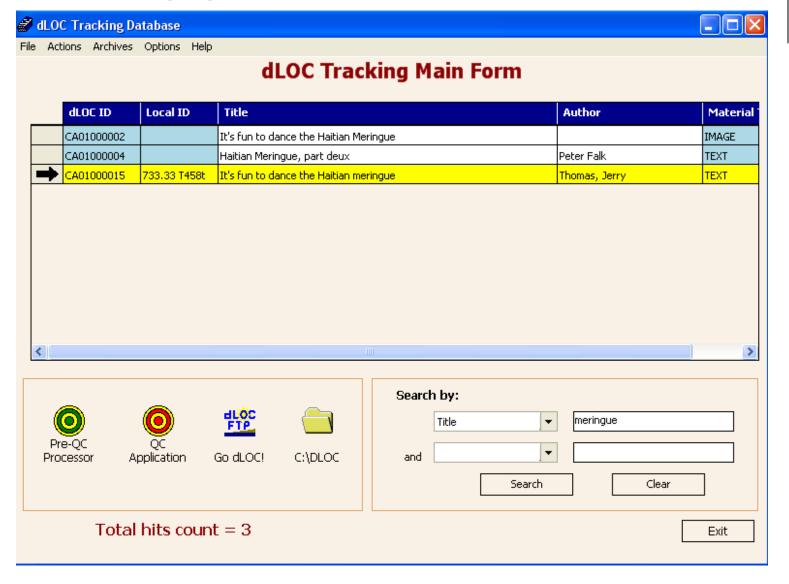




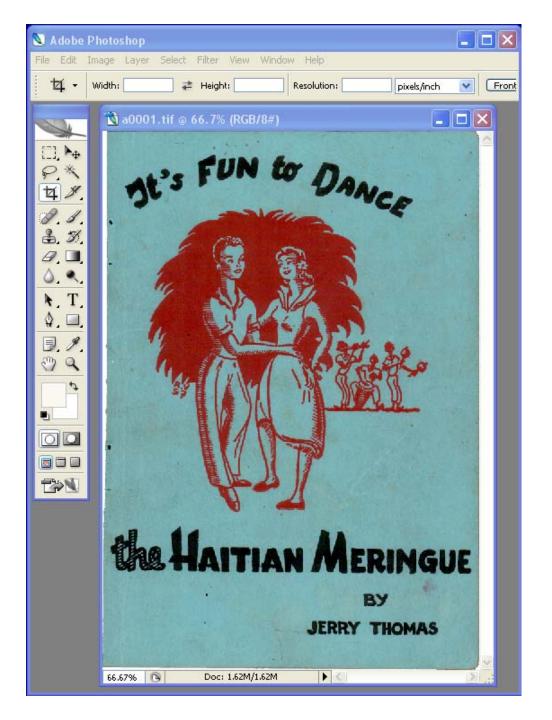
<b>a</b>	dLOC Track	king Data	ıbase						
				CA0	1000015	: 0000	1		
	Title:	It's fun t	o dance the Haitian	n meringue					
Ţī	Details								
	-General I	(nformatio	n ————						
	Local Identi	ifier:	733.33 T458t		Material Type:	TEXT	▼	Year:	
	Autho	or:	Thomas, Jerry						
	Publish	her:							
	Commen	ts —							
_								Save	Cancel



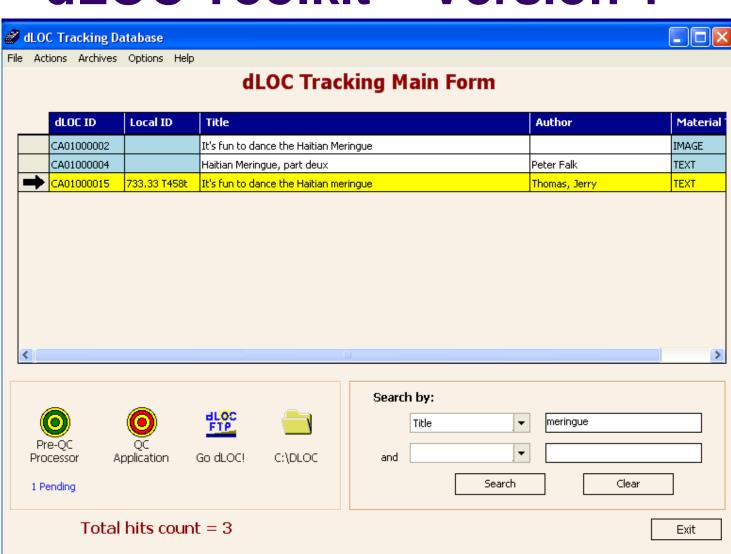
ở dLOC Template	K
Action View Options Help	
dLOC Template	
General Information Source Document Subjects and Keywords	_
Main Panel	
Bibliographic Identifier: CA01000015 Volume Identifier: 00001	
Language: English ▼ ♣	
Resource Type: Text	
Physical Description:	
Identifier: 733.33 T458t Type: None 🔻 🛨	
Holding Location: UF ▼ University of Florida Libraries	
Edit Mode Save Cancel	



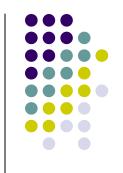




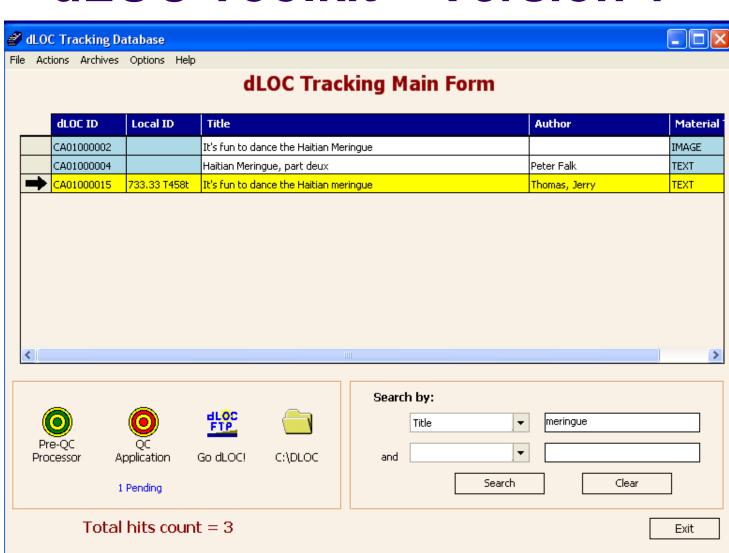




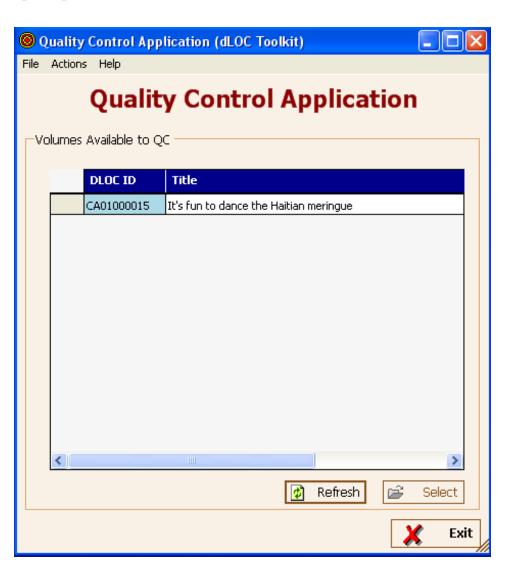




Pre-QC Application (dLOC Toolkit)	
Actions Options Help	
Progress Information	
Current Volume: CA01000015:00001 (1 of 1)	
Current Task: Processing image a0015	
	Process <b>Exit</b>





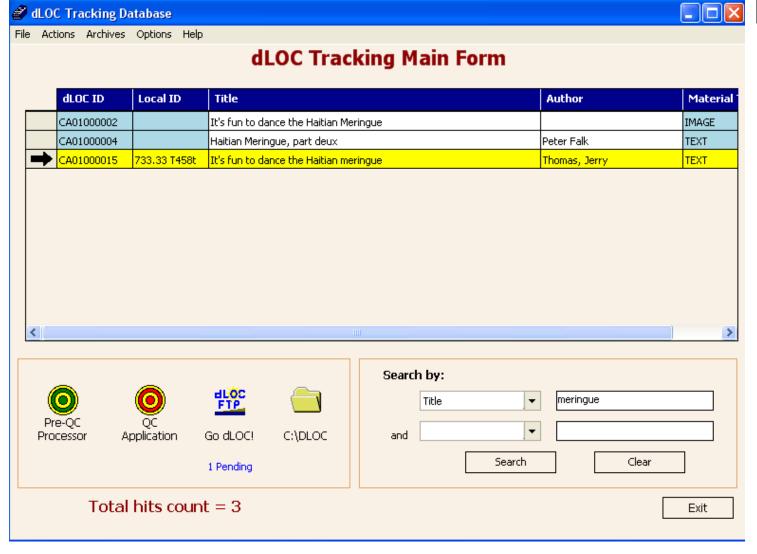






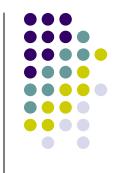
Quality Control Application (dLOC Toolkit)			
File Actions Help			
Title: It's fun to dance the Haitian merin		015 : 00001	
a0001  At's FUN to DANCE  THE HAITIAN MERINGUE BY JERRY THOMAS  Pagination: Division:   Main	Pagination:  Division: Main	THEORY OF THE HAITIAN MERINGUE BY  JERRY C. THOMAS (6-2874) WHILE A PRINCIPLE OF THE THOMAS OF THE	Pagination:  Division:  Main
a0005	a0006	a0007	a0008
Critical Volume Error: No Volume Level E	error	<b>-</b>	







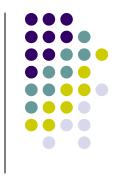
Folder:	C:\dLOC\Co	omplete	j
Current Volume	e: [		j.
Current Task:			
Progress:			



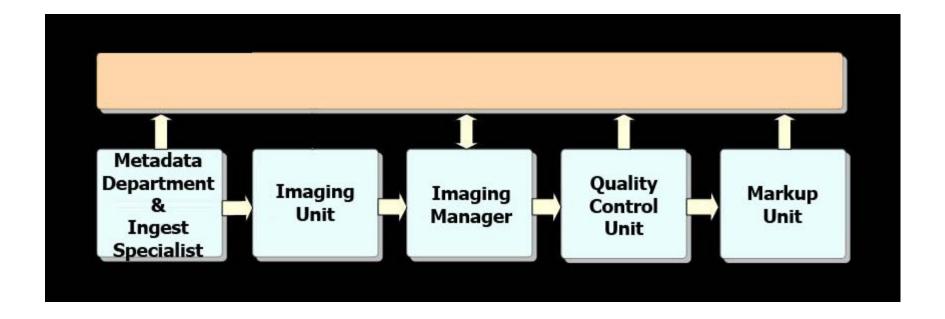
Item Submission Complete!



🧳 dLOC Tracking D	atabase						
CA01000015:00001							
Title: It's fi	un to dance	the Haitian meringue					
Details Status	Arch	ives					
Current Status							
Record Cre	ated:	Friday, May 30, 2008			Open Directory		
Metadata (	Ireated: [	Friday, May 30, 2008		***	Edit Metadata	<b>3</b>	
Scanned:	[	Friday, May 30, 2008		***			
Quality Cor	ntrol:	Friday, May 30, 2008			<u>QC again</u>	<b>O</b>	
FTP'd:	[				FTP to dLOC	FTP	
Archived:	[						
						Save	Cancel



- Problems
  - Level of expertise required missing, even at UF.





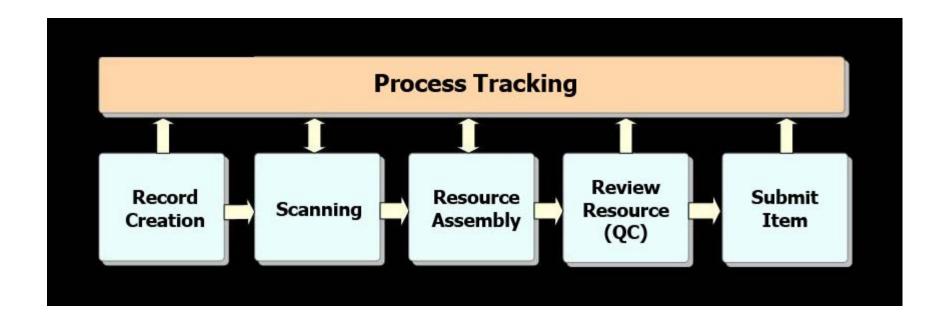
Problems

- Frozen "snapshot" of UF DLC applications.
- Inability to update metadata for items submitted to dLOC

Inability to customize sufficiently



Same basic process steps



#### dLOC Toolkit - Version 2.0

Integrated applications in one window



0

More user-friendly



# dLOC Toolkit - Version 2.0



#### Live Demo

#### dLOC Toolkit - Version 2.0



- Advantages
  - Ability to update your items on dLOC
  - Archives Module
  - Customization
    - Language
    - Themes
    - Metadata Templates
    - Output Formats
  - Security
  - Frequent Updates



- Future Enhancements
  - Glossary of Metadata Terms
  - Import existing catalog records
  - Update digitization manual
  - Create videos to demonstrate common tasks
  - Release under GPL open-source license
  - Additional output formats

#### dLOC Toolkit - Version 2.0



- Uses
  - Greenstone Metadata Output
  - New Metadata Output Formats
  - dLOC (<u>www.dloc.com</u>)