

# The ArchivesDirect pilot: Road-testing Archivematica hosting in DuraCloud

Amy Rushing (UTSA), Julianna Barrera-Gomez (UTSA) and Courtney C. Mumma (Artefactual Systems) TCDL, Austin, TX, April 27, 2015, Session 4A

### **Overview**

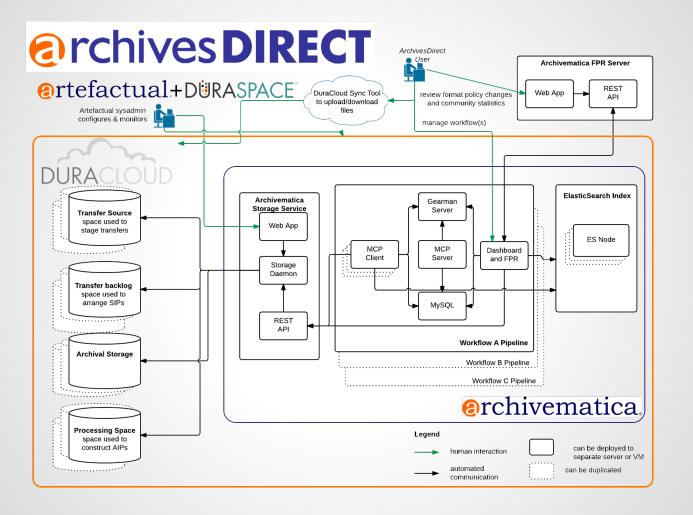
- The pilot
- Administrative experience - UTSA partner
- Operational experience
- Q&A and discussion



# What were the pilot's goals?

- standards-based digital preservation packages in secure long-term storage
  - Archivematica + DuraCloud
  - hosted, web-based solution
  - customizable to match your needs/workflows/content
  - no vendor/content lock-in
- identify service needs and scope

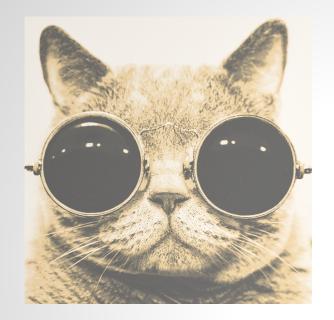




# Who were the pilot volunteers?



Berea College **Huntington Library** Illinois-Wesleyan University Kansas State University North Carolina Dept of Cultural Resources Pepperdine University Phillips Academy Andover University of Texas at San Antonio University of Washington

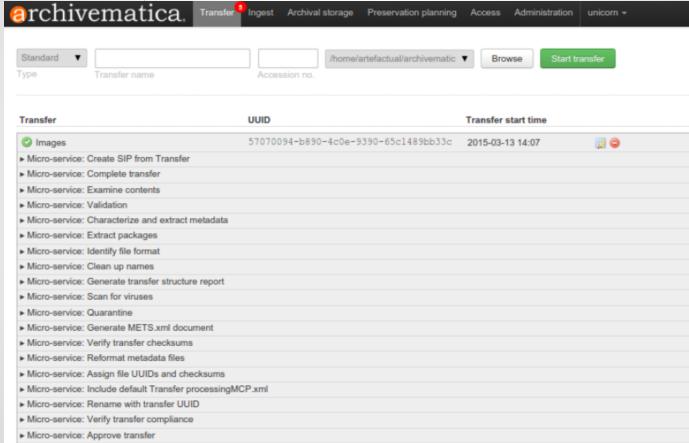


- assess content
  - born-digital, digitized,
     MD and submission
     documentation
  - size and scale

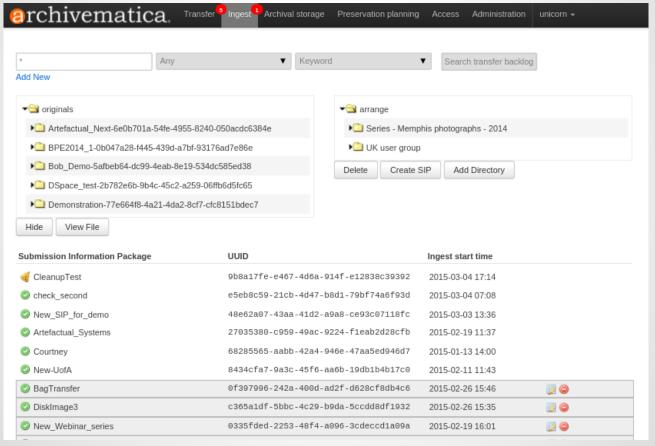
# What was the pilot structure?

- assess workflows for distinct content
  - preservation and/or access copies? service masters? manual normalization?
  - transcription, forensic analysis, directory structure for OO?
  - format identification tool, error handling, compression and extraction preferences?

### Structure, cont'd



## Structure, cont'd



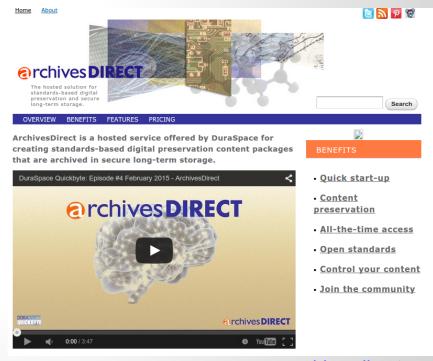
### Structure, cont'd

- intensive training and content analysis guidance
- pilot wiki for sharing workflows and results
- pilot-support and pilotdiscussion lists
- agile development processes with rapid analysis/ upgrade/testing cycles



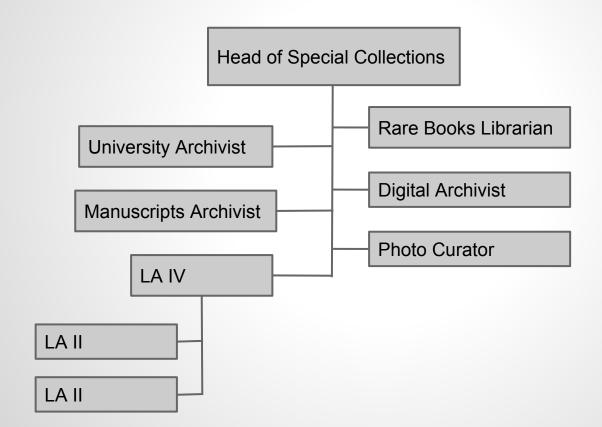
## What were the pilot outcomes?

- ArchivesDirect public offering and price structure
- toolkits and documentation
- DuraCloud integration and scalability enhancements to Archivematica
- training and support strategy





# **Special Collections**



# IT @ UTSA

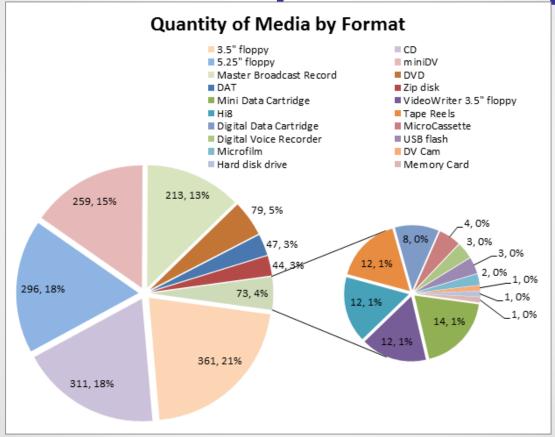


stimated network drive content sizes by type:		Total Siz
A sick distance contact.		
At-risk digitized content:	7.46.6D	
mages\Marquise - JPEGS	7.46 GB	
hanatus\NEDCC	5.41 TB	
hanatus\NEDCC_Batch2	1.86 TB	
hanatus\NEDCCStagingArea	602 GB	
hanatus\Portal of Texas History newspapers	789 GB	
hanatus\PTH Test	179 GB	8.85 TB
t-risk born-digital content:		
rchives data\Archives Archive	5.04 GB	
rchives_data\COLLECTIONS	99.6 GB	
rchives_data\Electronic Records	607 GB	
rchives_data\SARA	36 MB	
brary_data\UA 16.01.01	508 GB	1.26 TB
General digitized content:		
JTFILE\Audio	124 GB	
JTFILE\Media Content on Helix Server	101 GB	
JTFILE\Video	558 GB	
rchives data\Images (-7.46 GB from Marquise)	994 GB	
brary data\master	1.91 TB	
brary_data\_I Drive - Common\PhotoScan	10 GB	3.70 TB
		13.81 TE
temovable media inventories:		Total Siz
AS collections	4 TD	10(a) 312
	4 TB	4 AE TD
JA collections	454 GB	4.45 TB
stimated Grand Total:		18.26 TE

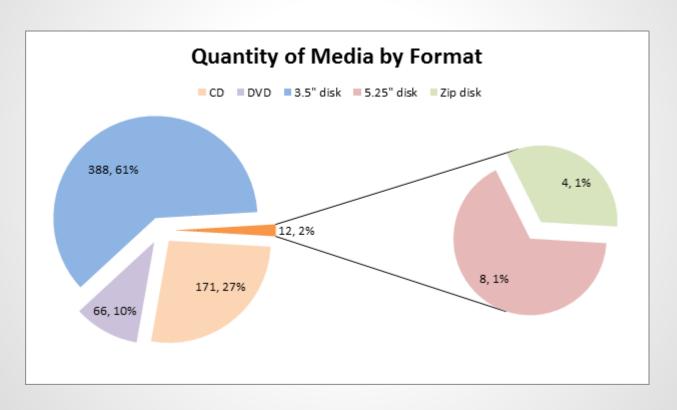
# **Jump in Initiative**



**Jump In Manuscripts Inventory** 



### **Jump In University Archives Inventory**



#### **Pilot Content overview**

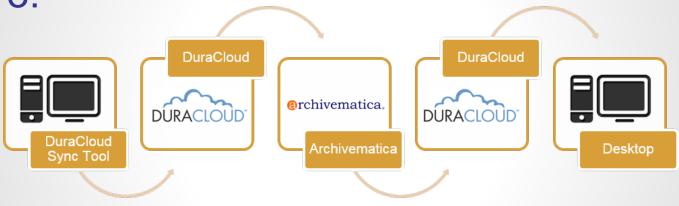
```
San Antonio Light digitized negatives
    Tiffs and ipegs, plus metadata in .csv
Born Digital material from Dr. Ellen Riojas Clark
    Facebook export, Outlook email
Born Digital material from Dean George Perry
    .msg email files with attachments, Word files
Born Digital material from Dean Dan Gelo
    Word and .pdf
The Marquise digitized newspapers
    ipegs
Born Digital architecture files from Killis Almond & Associates
    variety of CAD file types
```

# **Processing POV**



### Workflow

### Macro:



### Workflow con't.

#### Micro:

- Set up
- Assemble testers
- Coordinate tests
- Generate transfers, SIPs and AIPs
- Track results
- Track issues

# **Test log**

Ħ	Archivematica Test Log 🌣 🖿  File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive							
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	Α 🔻	В	С		D			
1	Testing Dates	Name	Test Directory	No	Notes			
2	Dec. 11-12	Julianna	MexicanCookbooks\txsau_tx714-m47-1930z		During Ingest noticed same directory appears to have been run through on 2014-10-30			
3	Dec. 15-16	Amy	NEDCC\tif 1					
4		Amy	KillisAlmond\MS348 Hardrive\UTSA Digital Back Ups\Digita from Archive\1894 GRAND OPERA HOUSE\OLD SHEETS					
5		Amy	EllenClark/ClarkOutlook					
6	Dec. 17-18							
7	Jan. 5-7	Julianna	Perry\Correspondence\2006\L-Z		Changed from FIDO to file ext in both the Transfers and Ingest file ID configuration			
8	Jan. 8-9	Julianna\Amy	Perry\Correspondence\2006\G-K	IDi	Will change from FIDO in the Dashboard to aid in format IDing for this transfer of .msg files, then switch back, per Justin Simpson's instructions			
9	Jan. 12-13	Amy	Killis Almond\06-07 - Ft. Sam	An	Amy was unable to do testing this week			
10	Jan. 14-15							
11	2/12/2015	Julianna	KillisAlmond	Co	Complete Hard drive			
12	2/16/2015	Julianna	Marquise\Marquise					
13			Marquise\Marquise paste-ups					
14	2/5/2015		Gelo\Acc.2011-005					
15	2/5/2015	Julianna	EllenClark\ClarkFacebookExport					
16	2/11/2015	Julianna	CDMUpload002FebTry2	ma	ALTERED the Administration setting so that normalize is manual only. This is set up with the manualNormalization directory and also includes a metadata.csv file			
17	2/12/2015	Julianna	CDMUpload002FebTry3		Admin settings: do not normalize. Will try this, since access & pres are already set up.			
18	2/17/2015	Julianna	MexicanCookbooks\txsau_tx714-m47-1930z		Running this again as a test for the Ingest: Transcribe SIP microservice OCR txt file production			

# Test log: issues

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	File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive								
		~ 🖀 🔁 🖠 \$	% .0 <sub>4</sub> .00 <sub>4</sub> 123 - Arial	~ 10	- B Z	5 A - 🔌	- H - H - I	<u> </u>	<b>□ □ □ □ □ □</b>
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	SpecC		·	_	_		-		·
1	oll Staff	Transfer Date	Transfer Name	Transfer # Objects	Transfer Size	Transfer Time Started	Ingest Date	Ingest Time Started	Error Reporting : Micro-service where error occurred; what job it was; paste in exact wording
2	Julianna	12/11/2014	MXCookbookstx714m47	366 jpegs	489 MB	4:43 PM	12/11/2014	17:01	Micro-service: Store AIP Job: Store the AIP Failed
3	Amy Ru:	12/15/2014	NEDCC small batch 1	5 tiffs	1.03 GB	10:39 AM	12/15/2014	10:45	Micro-service: Transcribe SIP Contents Job: Transcribe Failed
4	Amy Ru:	12/16/2014	Killis Almond-OperaHouse-OldSh eetsandScans	71 files of various formats (DVVG, txt, pdf, CAL, bmp)	81 MB	13:46	12/16/2014	13:53	
5	Amy Ru:	12/16/2014	ClarkOutlook-SecondTry	1 .pst file	59 MB	2:45 PM	12/16/2014	2:45 PM	Micro-service: Normalize Not normalizing ClarkEmailAcc2014-20.pst - No rule or default rule found to normalize for preservation
6	Julianna	1/5/2015	PerryemailLtoZ	5510 .msg files	515 MB	2:07 PM	1/5/2015	17:27	Micro-service: Identify file format Job: Identify file format (transfer continuing); Micro-service: Characterize and extract metadata Job: Characterize and extract metadata Failed (transfer continuing); INGEST: Micro-service: Normalize Job: Identify file format;
7	Julianna	1/8/2015	PerryemailGtoK	CANCELLED	CANCELLE	CANCELLED	CANCELLED	CANCELLED	Rejected transferaccidentally picked wrong folder from Perry folder (picked L-Z)
8	Julianna	1/8/2015	PerryemailGtoKretry	4199 .msg files		4:31 PM	1/9/2015	12:01	No errors! Turned format id method back to FIDO in dashboard.
9	Julianna		KillisAlmondCompleteHD	apprx.1,800 files	954 MB	12:31 PM	2/12/2015	5:10 PM	Transfer: Micro-service: Identify File Format, Job: Identify File format; Micro: Extract packages: Job: Identify file format; Micro: Chararacterize and extract metadata: Job: Characterize and extract metadata; Ingest: Micro: Normalize, Job: Identify file format; Micro: Transcribe SIP contents, Job: Transcribe
10	Julianna	2/16/2015	MarquiseFeb	1,587 jpegs	3.03 GB	8:33 AM	2/16/2015	11:03 AM	{Pipeline stuck on Ingest:Transcribe SIP contentsEmailed pilotsupport, will take several hours} FAILED Ingest: Microservice: Prepare AIP, Job: Prepare AIP (failed, email report sent automatically)

## Support methods



- ArchivesDirect:
- DuraSpace group wiki
- Pilot support email list
- Consultations

- Archivematica:
- User manual 1.2 wiki
- Archivematica Google group

# **Testing experience**

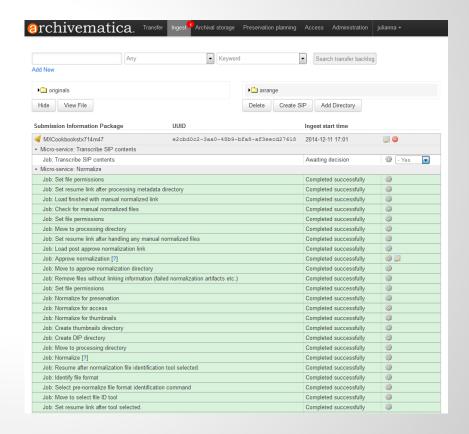
### Assembling transfers

- Metadata set-up
- Directory structure
- DuraCloud Sync tool



# **Archivematica testing**

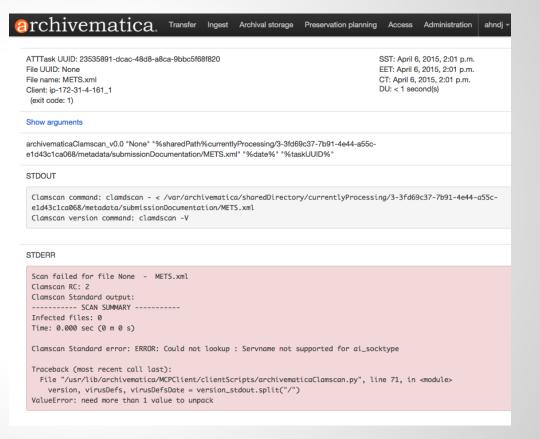
- Transfers
- Micro-services
- Specific tools
- Processing methods



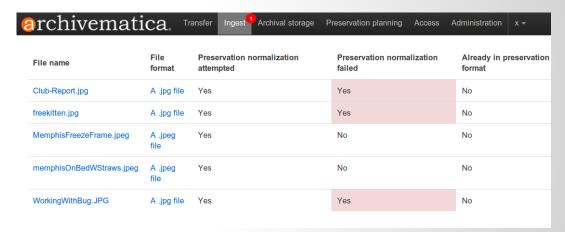


### Errors & issues

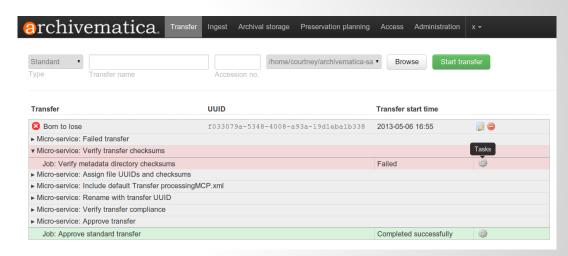
File-level errors



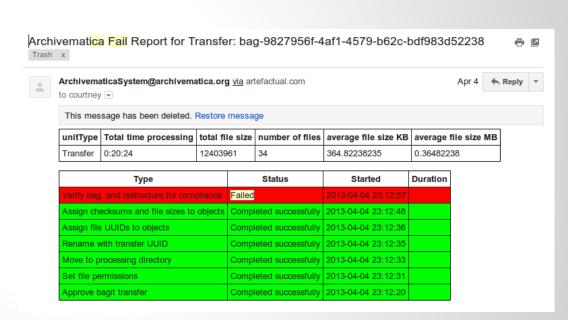
- File-level errors
- Normalization errors



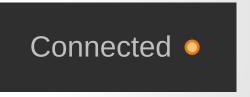
- File-level errors
- Normalization errors
- Metadata errors



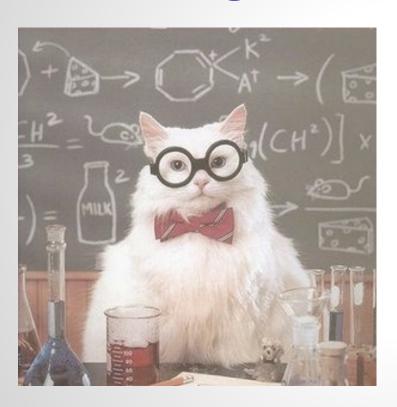
- File-level errors
- Normalization errors
- Metadata errors
- Fatal errors



- File-level errors
- Normalization errors
- Metadata errors
- Fatal errors
- General pain points



## Final thoughts/Next steps



- Piloting alternative
   ArchivesDirect workflow (not yet in production)
- Positive pilot outcome will result in alternative hosting option for ArchivesDirect users

# helpful links

archivesdirect.org
lib.utsa.edu/special-collections

Archivematica Birds-of-a-Feather Session (with boxed lunch) - PCL Map Room, Tues 12-130

archivematica.org - duracloud.org - artefactual.com - duraspace.org