

Permanence Persistence Preservation

Quality Control

EVALUATING THE DIGITAL SURROGATE

Presented by

Chris Lacinak

4/30/2007 NARA 21st Annual Preservation Conference Managing the Intangible: Creating, Storing and Retrieving Digital Surrogates of Historical Materials

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Permanence Persistence Preservation

Background

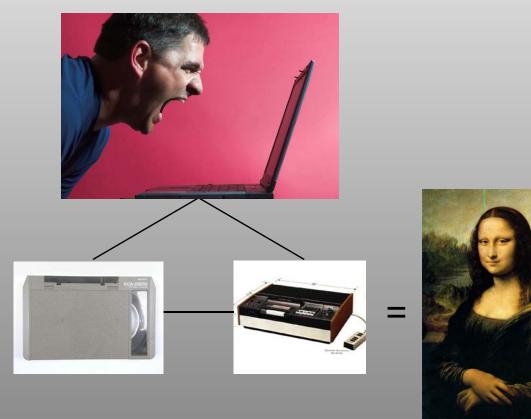
- President of AudioVisual Preservation Solutions
- Adjunct Professor at NYU MIAP
 - Video lab Intro lab Directed Internships
- Former CTO and VP of VidiPax
- Have worked with organizations of all types and collections of all shapes and sizes for many years on tackling preservation and access issues.
- Active Member of standards forming bodies including AES, SMPTE and ISO
- Chair of TC ARDL, and AMIA DAS

QC Pop Quiz

Static vs. Dynamic



VS.

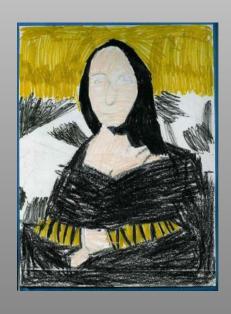


Creation

- Ouality and condition of equipment
- O Expertise of Operator
- Ouality and condition of media

Defines object of preservation

Regardless

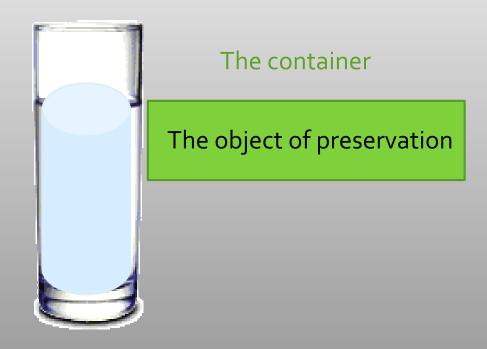


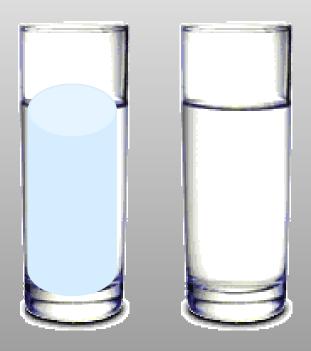


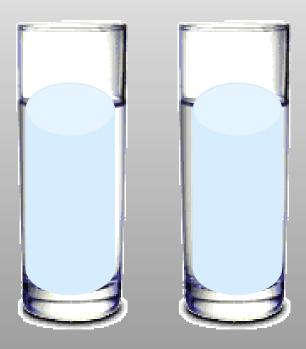


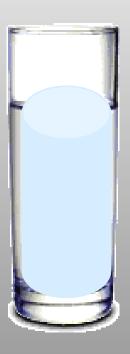
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Object of Preservation

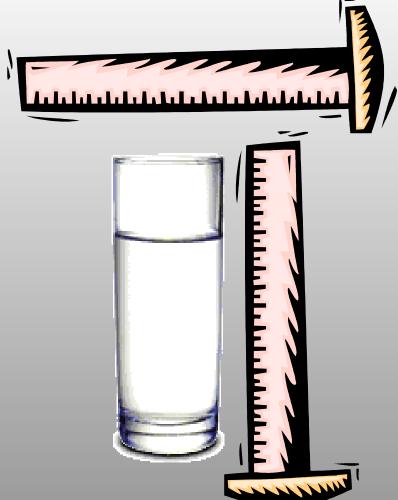




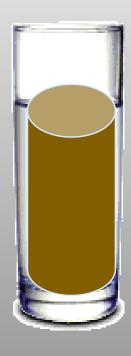


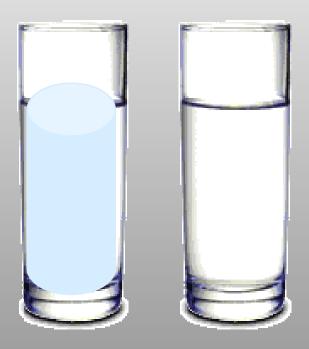


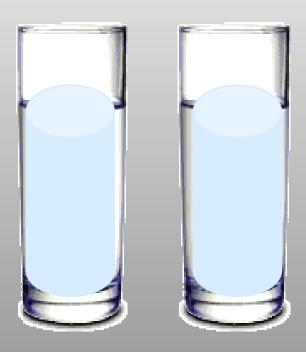




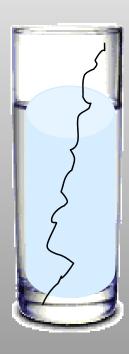


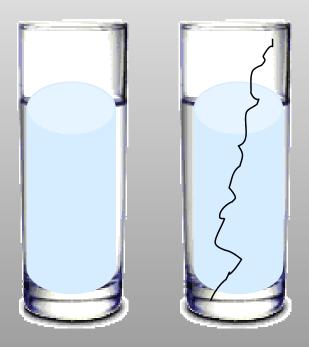


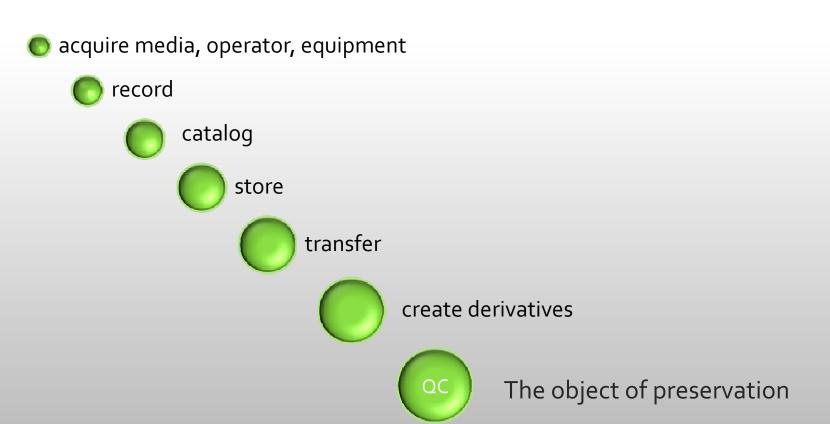


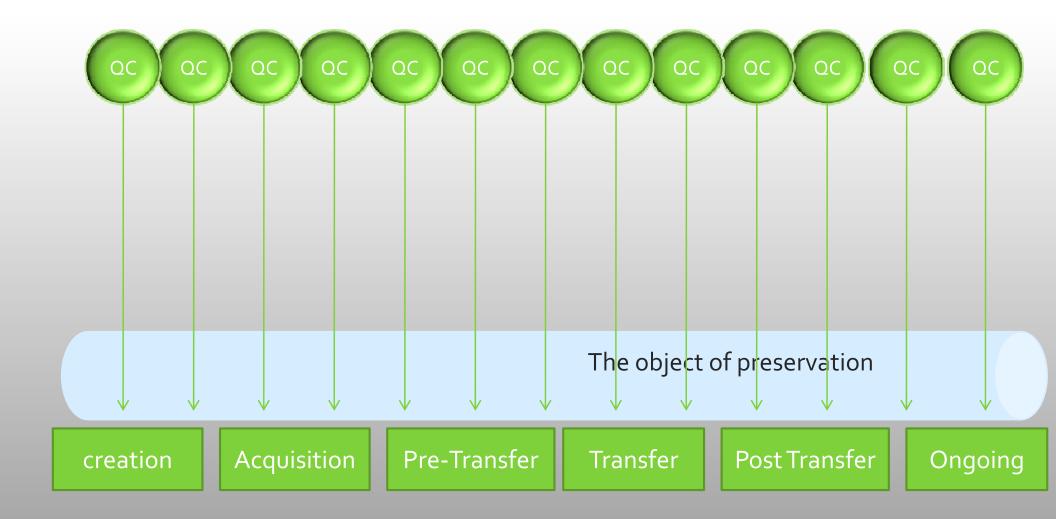




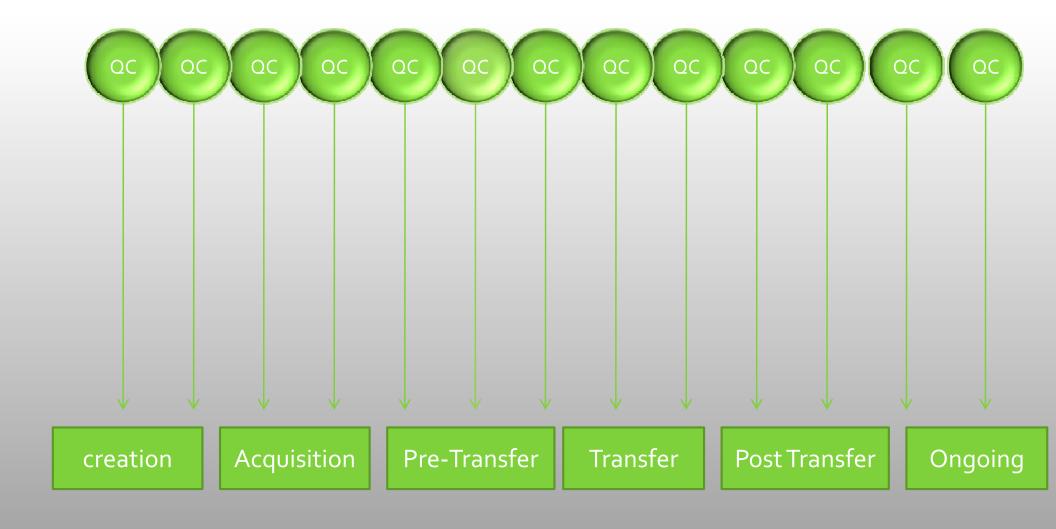




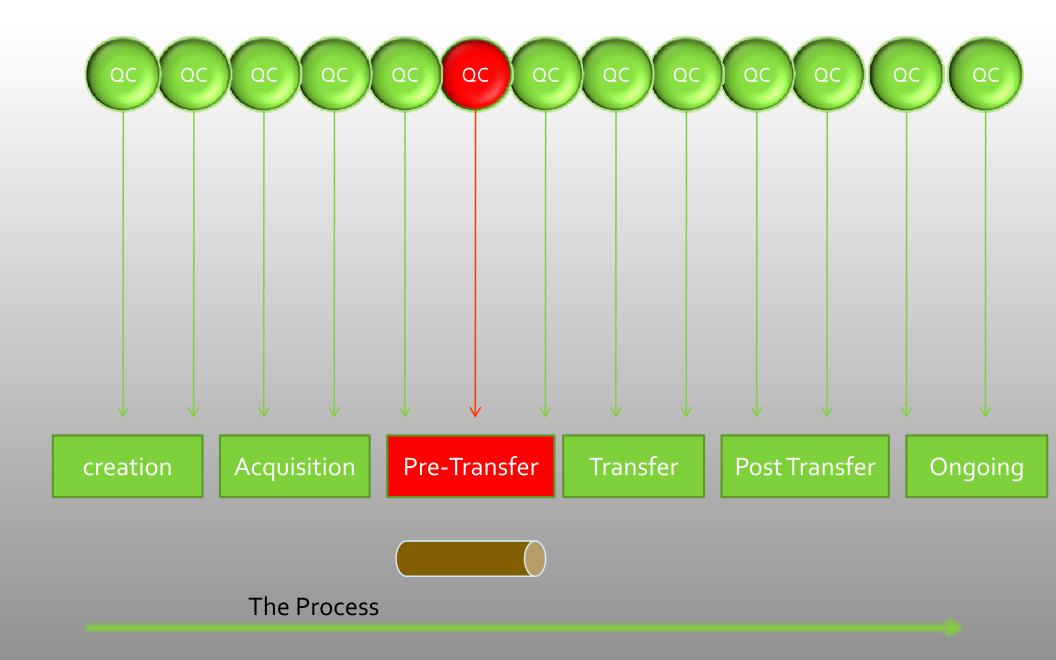


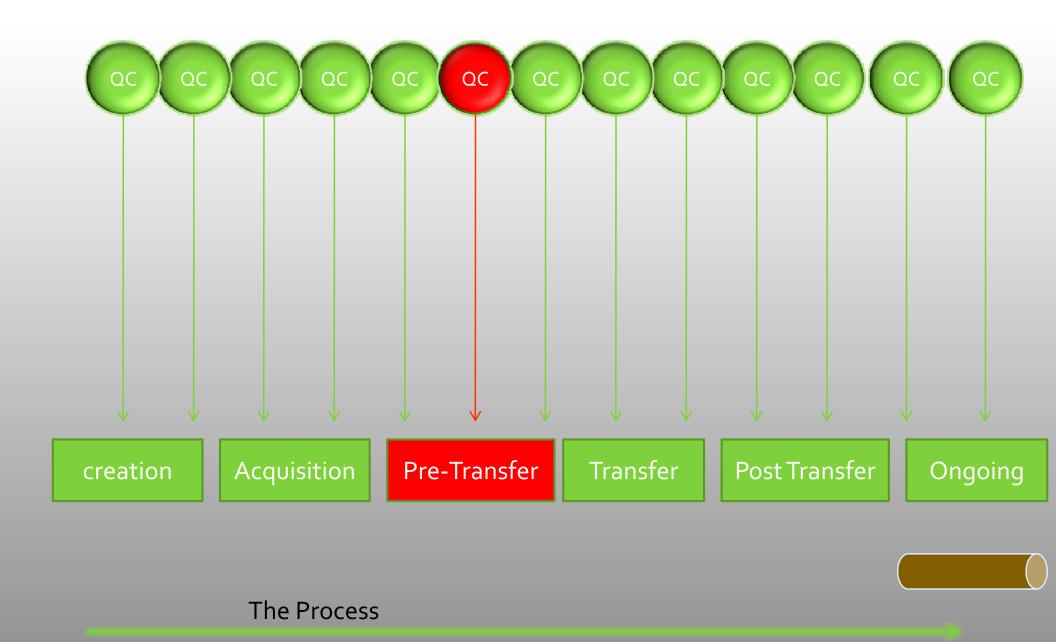


The Process



The Process





Examples from (and thanks to)

BBC Information & Archives *PrestoSpace Project:*

Technology-enhanced Learning & Access to Cultural Heritage

www.bbc.co.uk

Michael D Website

www.michaeldvd.com.au

Tektronix Cerify Literature

www.tek.com

BAVC PLAYBACK: Preserving Analog Video

www.bavc.org

1" Dropout c/o BBC Information & Archives



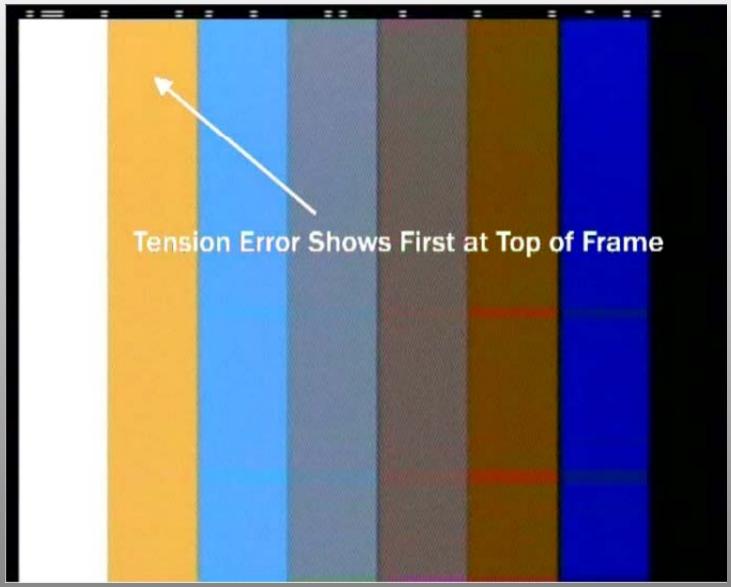
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Mistracking c/o BBC Information & Archives



Tape Tension Error

c/o BBC Information & Archives



Digital Tape Error c/o Michael D



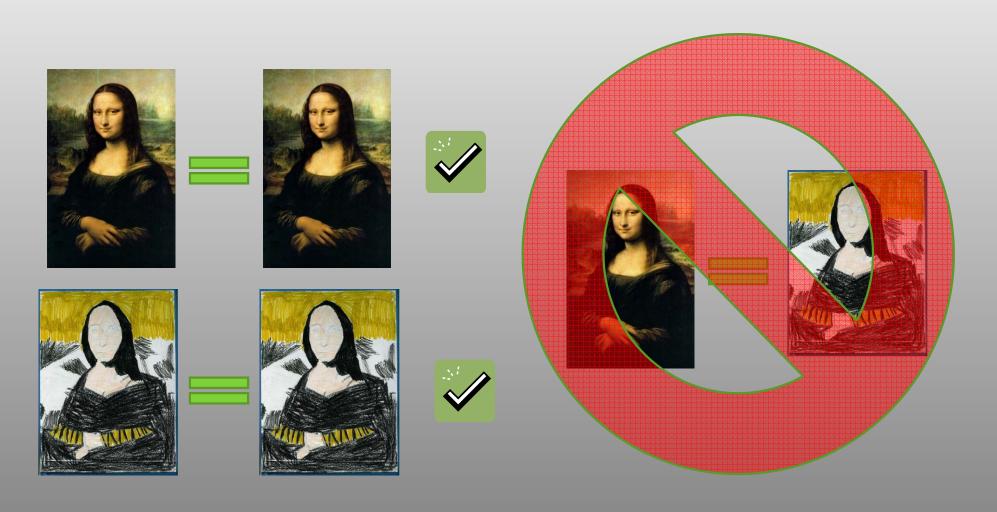
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7' Open Reel Dropout



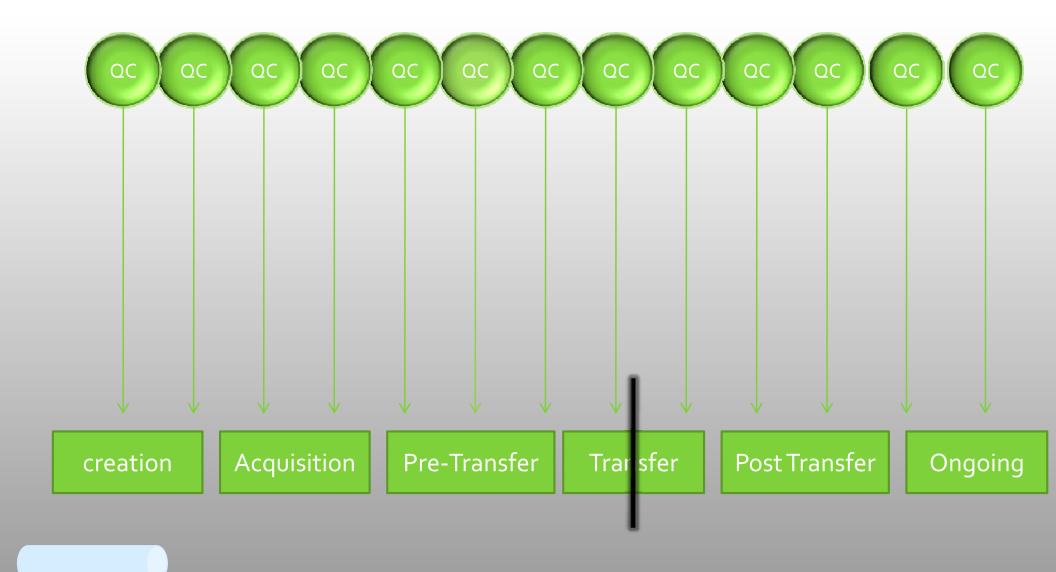
Aesthetic History vs. Quality:

The need for expertise



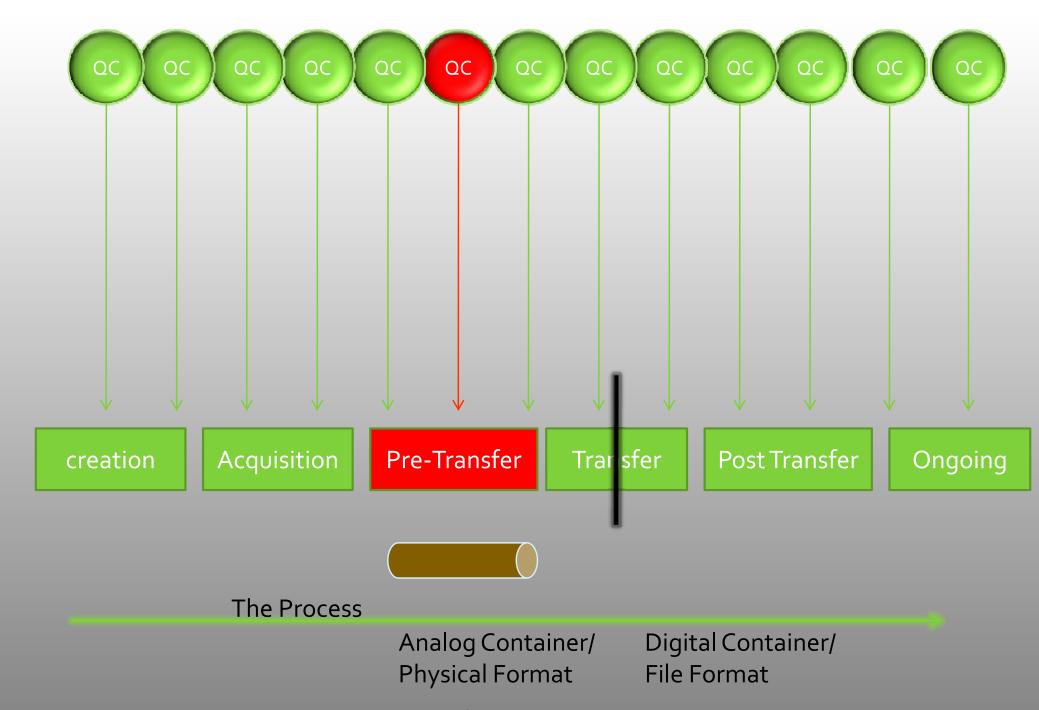
Digital File Error c/o Tektronix

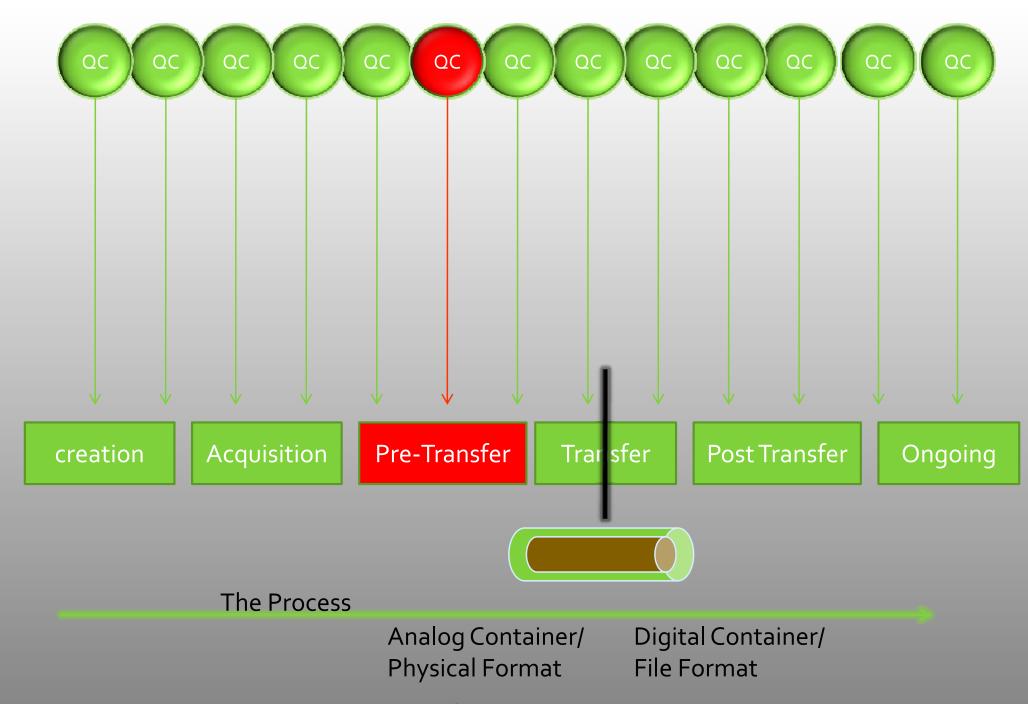


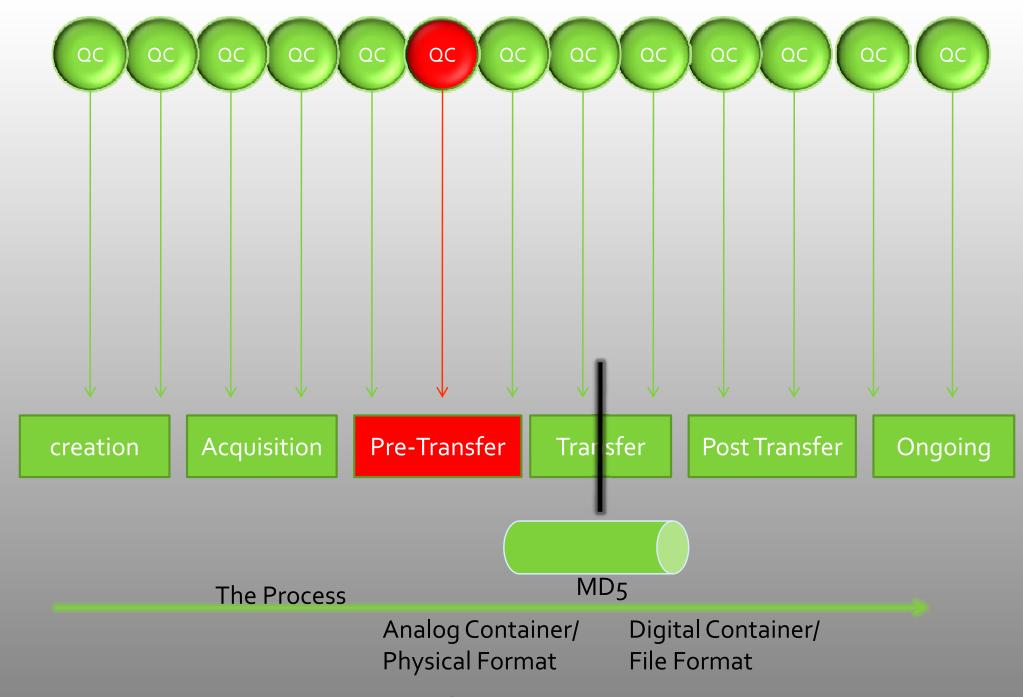


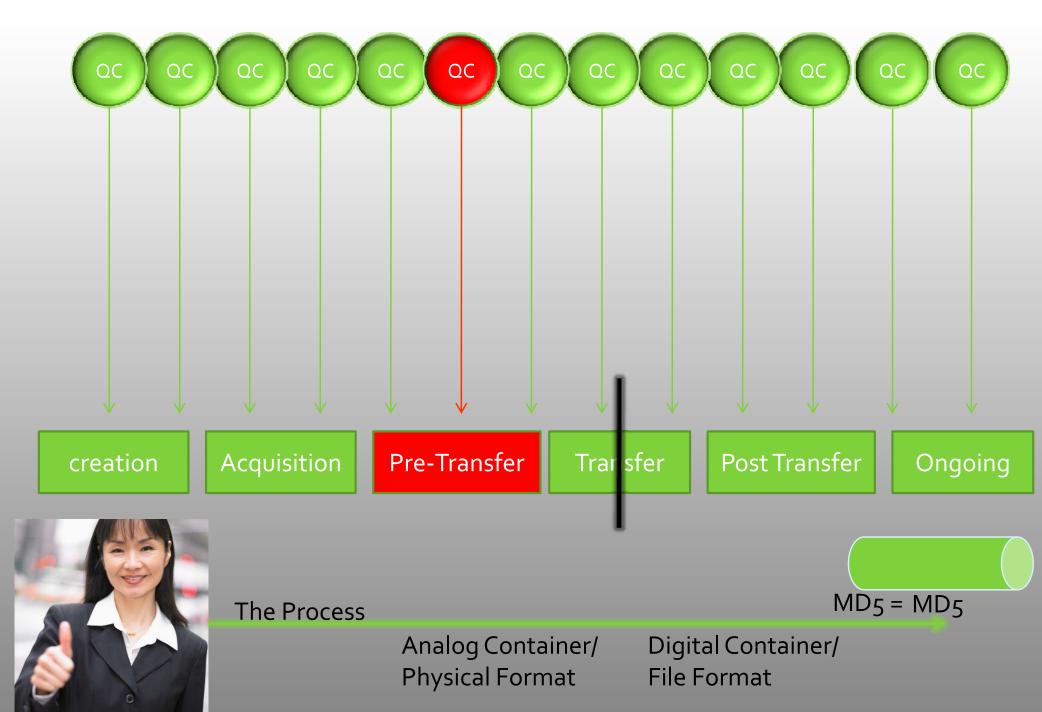
The Process

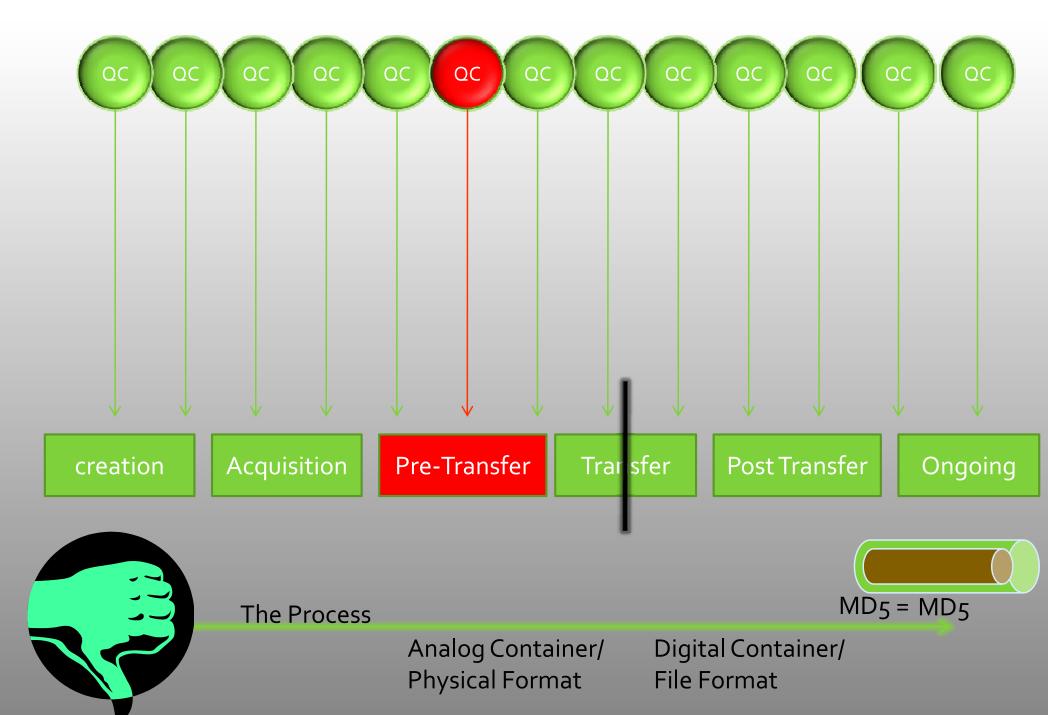
Analog Container/ Digital Container/
Physical Format File Format

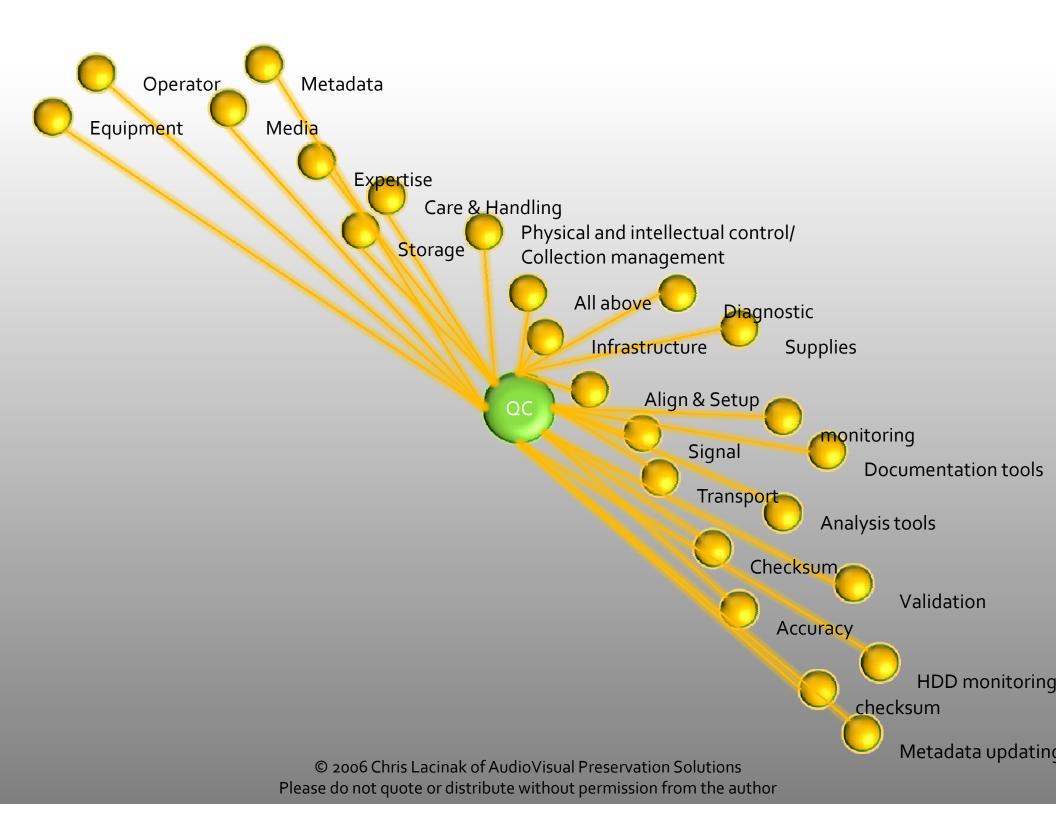


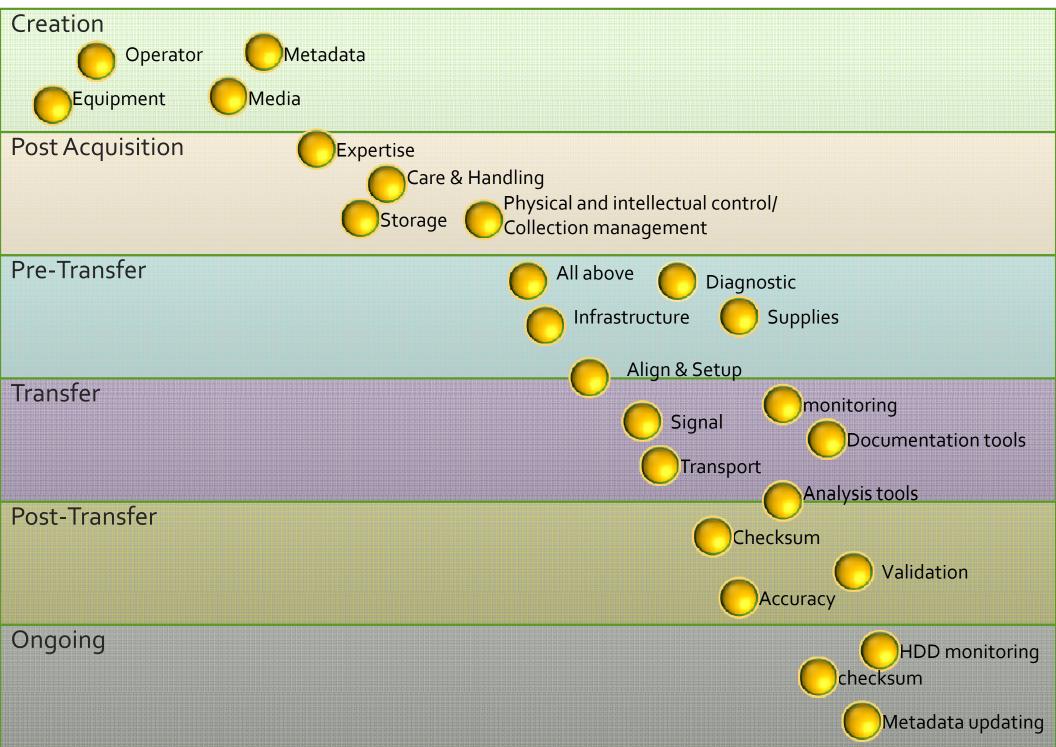




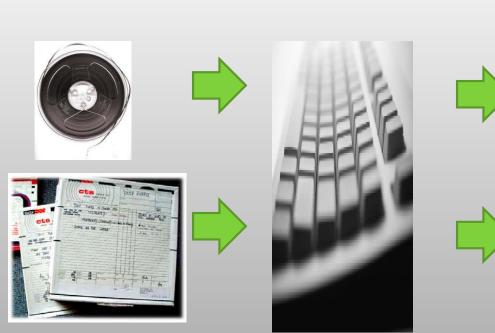


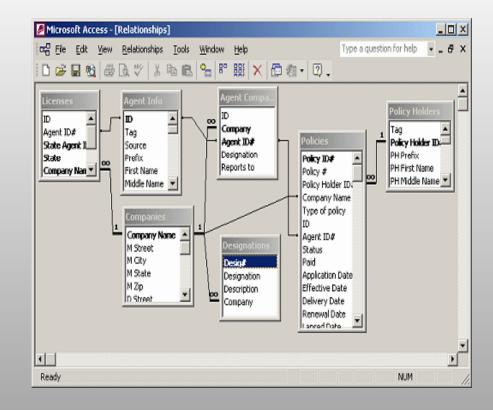






Acquisition





- JOSHUA LOGAN
 A REGISTER OF HIS PAPERS IN THE LIBRARY OF CONGRESS
- Collection Summary
 Selected Search Terms Administrative Informatio
- Biographical Note
 Scope and Content Note Description of Series
 Container List
 SEAMLY PAPERS,
- 1723-1988, n.d.
- GENERAL
- BUSINESS PAPERS,
 1930-49, n.d.
 FRODUCTION FILE, 1903-89, n.d.
- ➡ WRITINGS FILE, 1925.88. nd. • MISCELLANY, 1920-92, nd.

WRITINGS FILE, 1925-88, n.d.

Alexander, Ronald, Relative Strangers, 1973 Anderson, Doris, Mack Sennett film, 1949 Anderson, Maxwell, Ulysses Africanus, 1939 raises son, measured, crysses africants, 1939 Arbuzov, Aleksei, Tody Stranstvii (The Years of Traveiling), 1957 Atlan, Charles, Happilp Ever After, 1976-82 Assanced. Geography Axelrod, George Act Ow, n.d.

Breakfast at Tiffany's, 1960

Bus Stop, 1956, n. d.
Barry, Julian, Rocadrille, n. d.
Berrman, S. H.
The Cold Wind and the Warns, 1958
The Worsester Account, 1954
Benchley, Robert, Offreitman Affannson, n. d.
Bennd, Stephen Winners, The Sobbirt Women, n. d.
Benson, Sully, Med Me in St. Louis, 1960-86
Behnick Sam See Container 111, Clark Pon.





Check existing metadata against item labels



Identify any glaring issues (mold, fire damage)



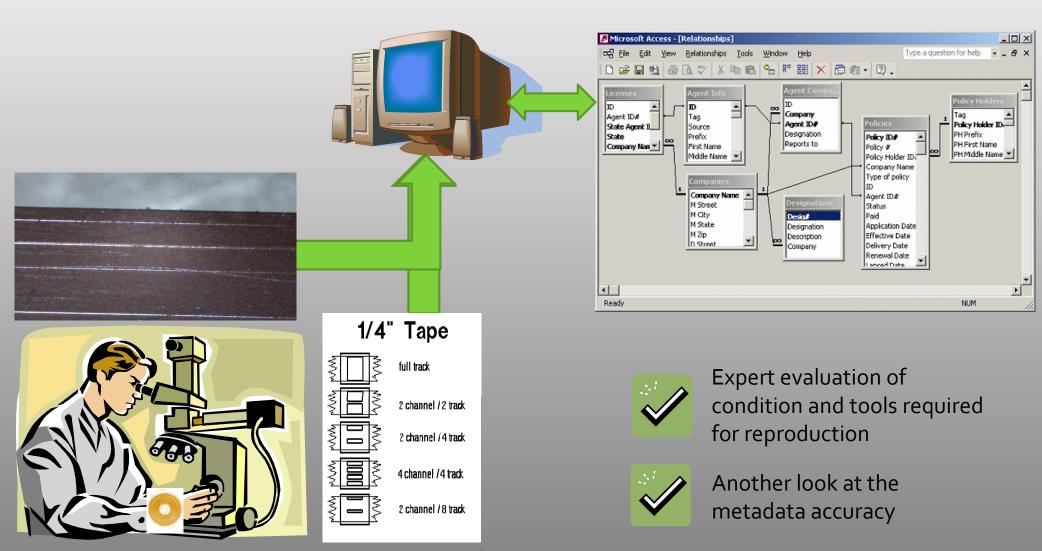
Avoiding redundant data entry



Assign ID and media tracking info

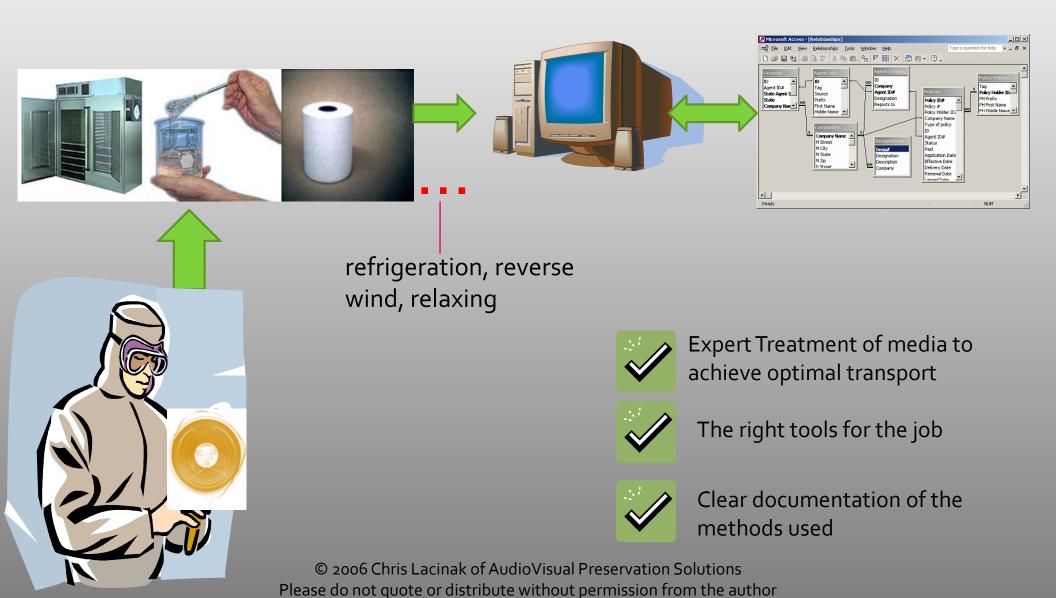
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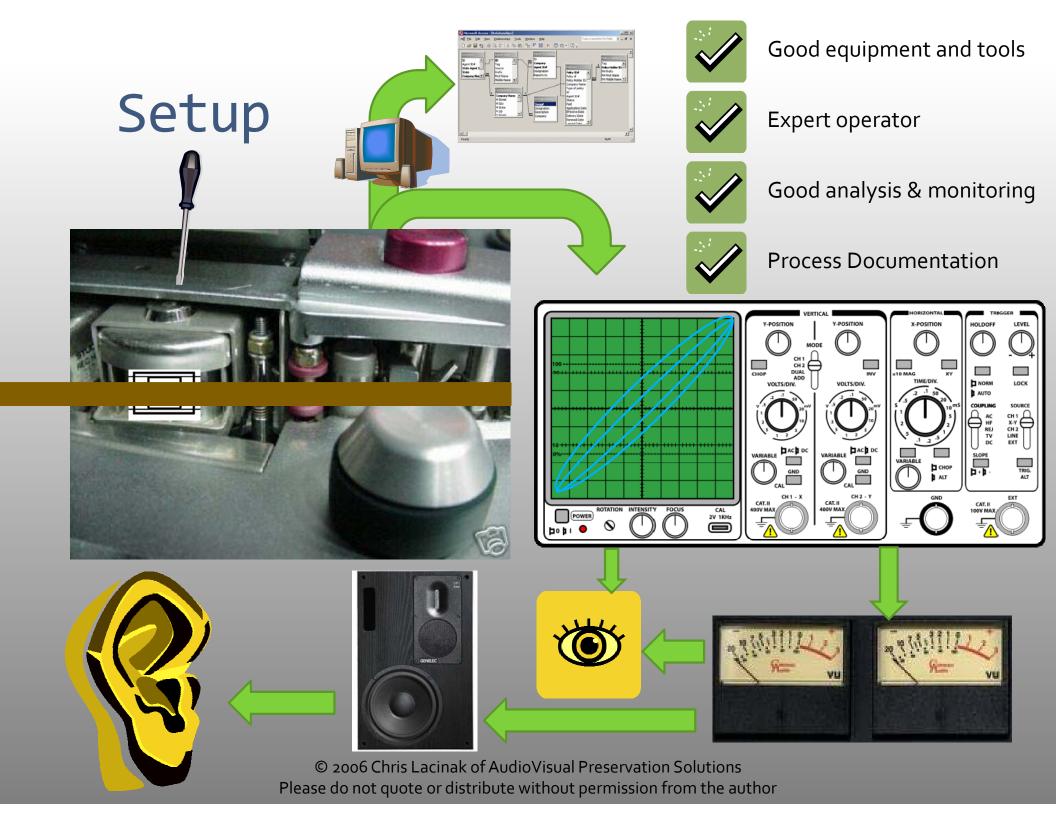
Inspection and Diagnostics

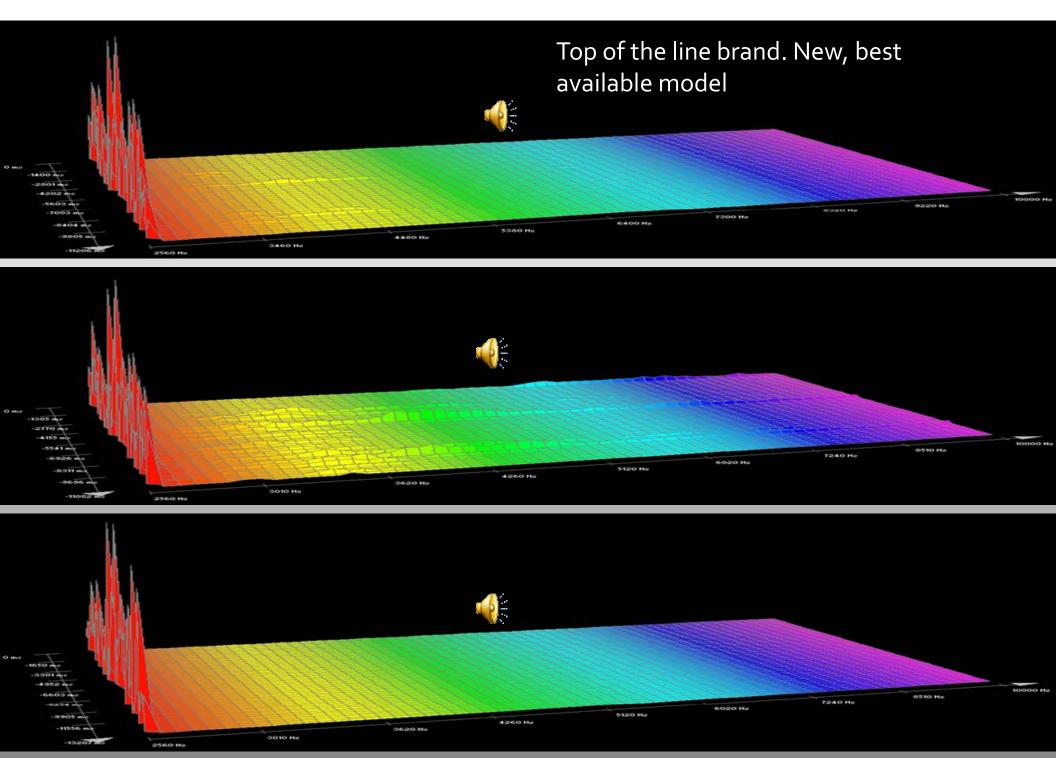


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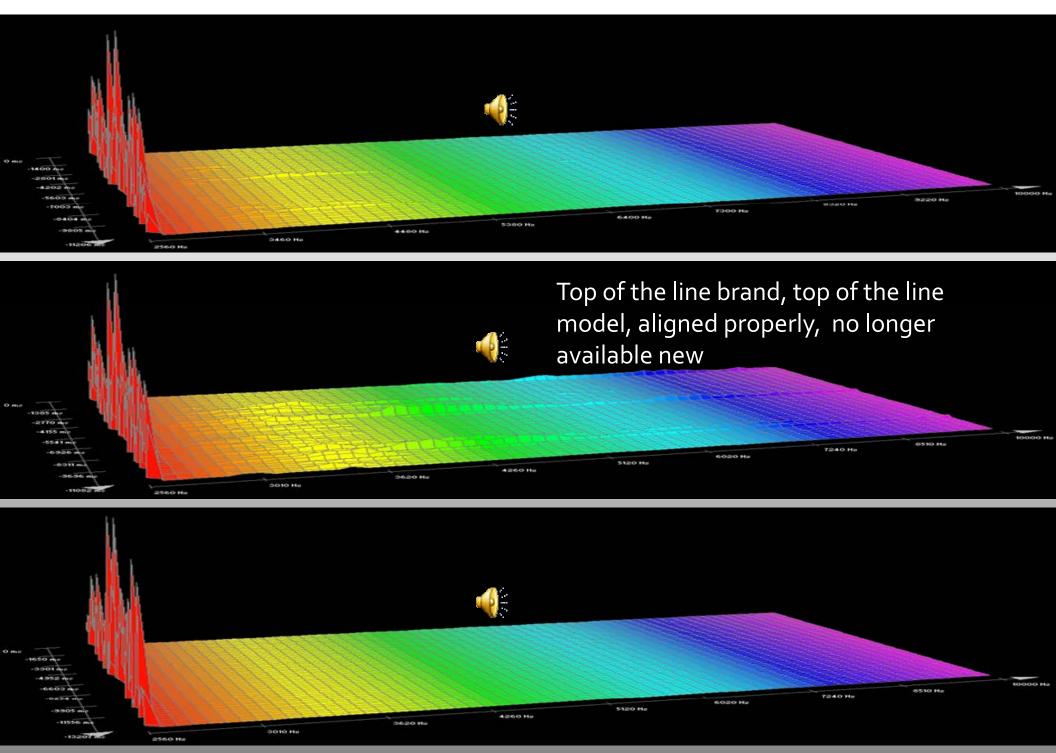
Treatment



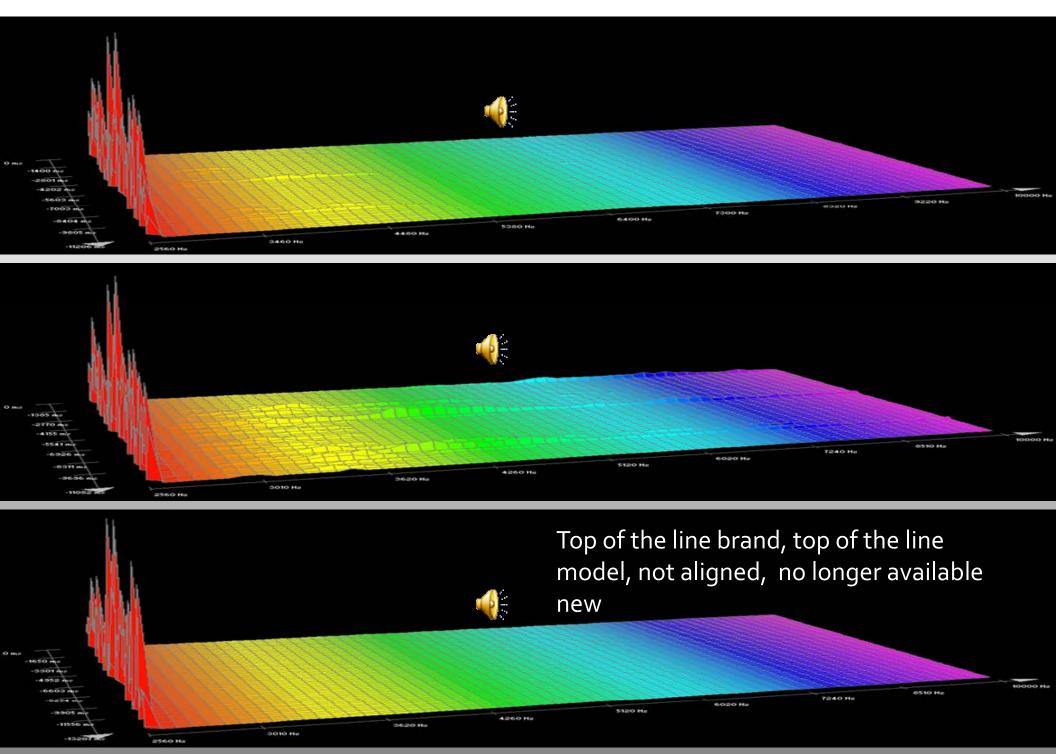




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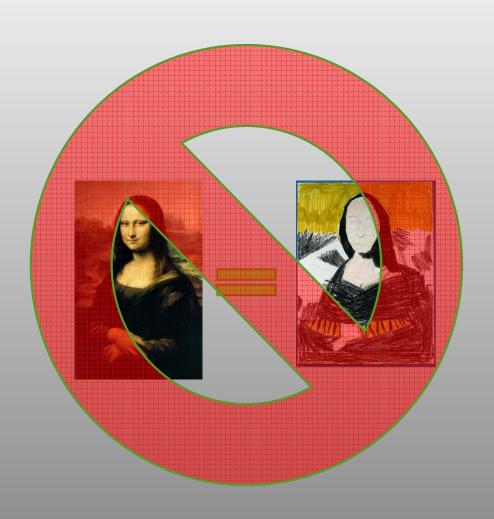


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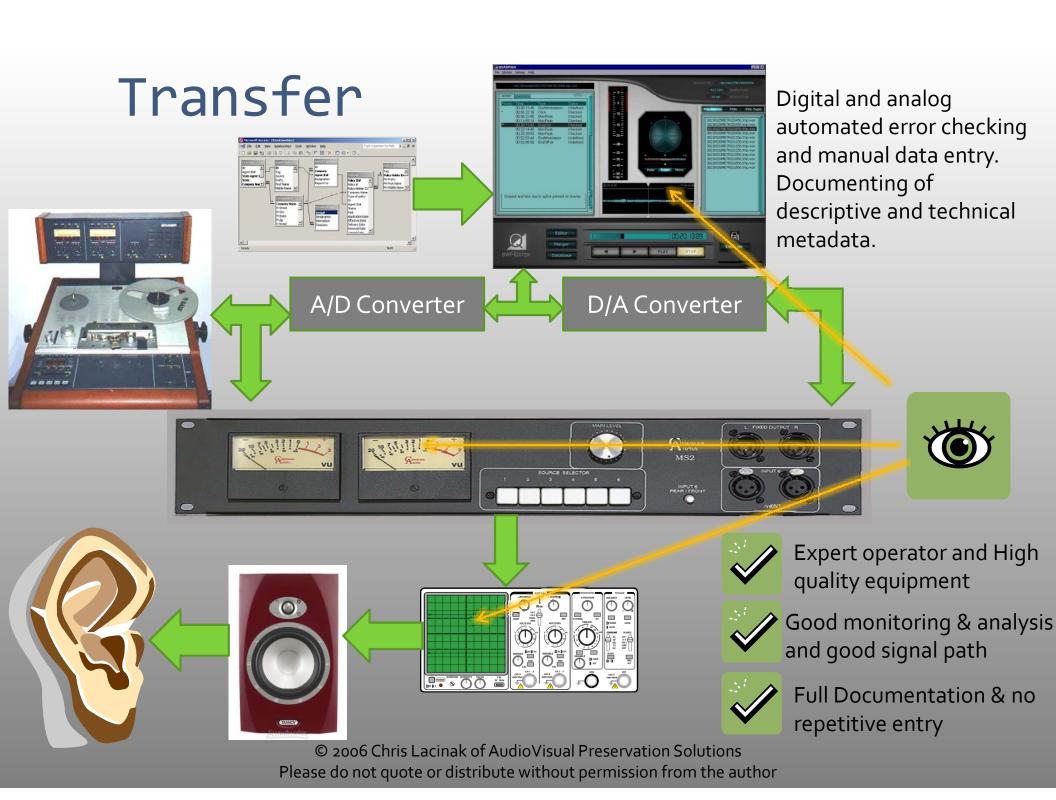


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Aesthetic History vs. Quality



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Post Transfer 1/5





Validate and supplement automatically generated metadata

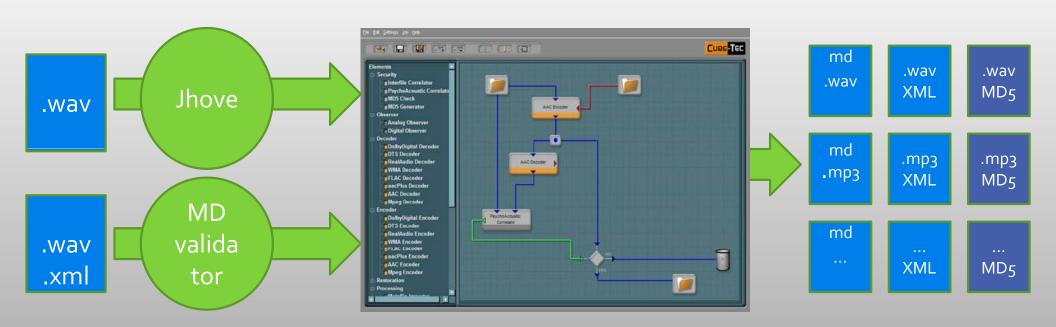


Metadata exported as XML for import into database and/or SIP



Generate checksums for metadata and audio object

Post Transfer 2/5





Validate file and metadata as well formed and valid instances



Generate Checksums for derivatives



Automatically generated derivatives

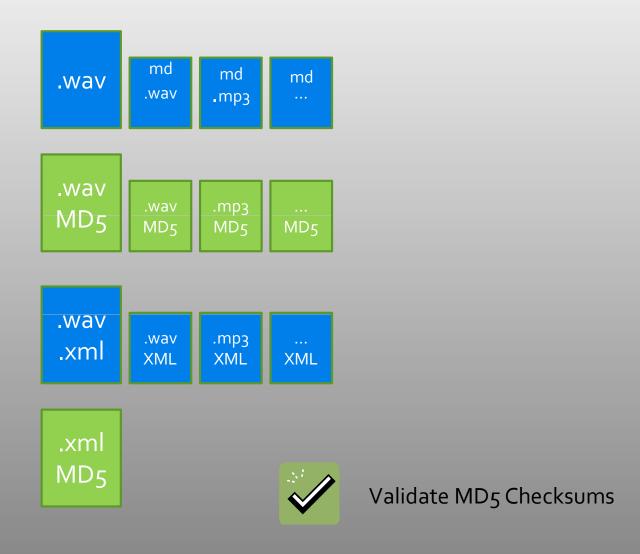


Generate & export descriptive and technical metadata for derivatives

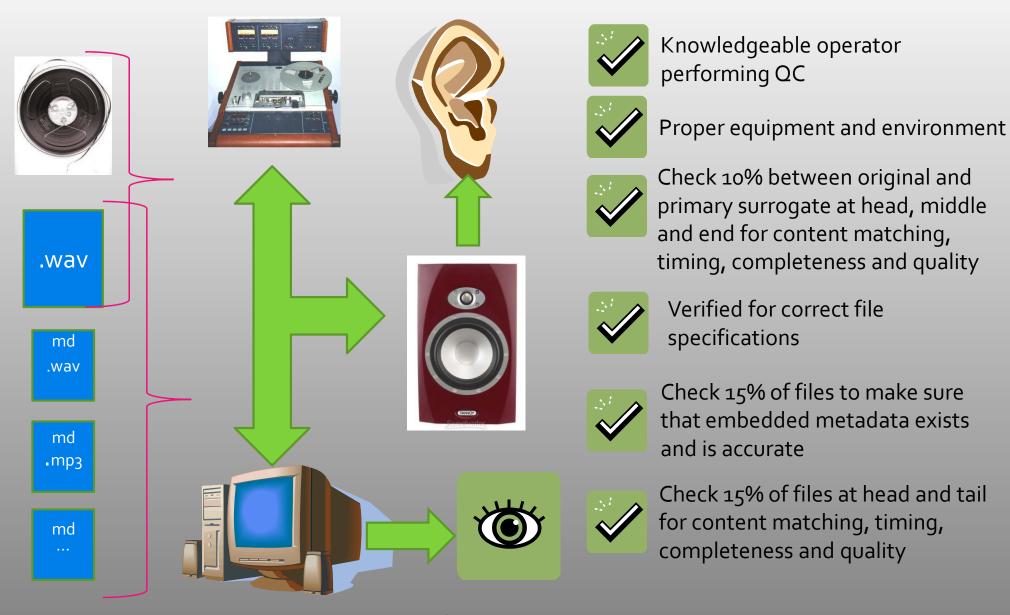


Imported XML for dissemination to derivatives

Post Transfer 3/5

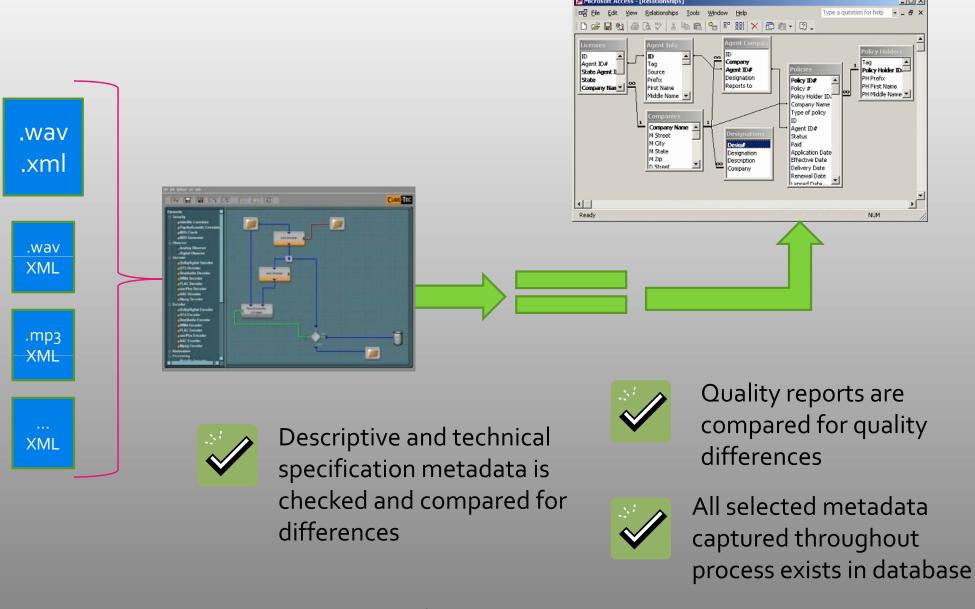


Post Transfer 4/5



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Post Transfer 5/5



Ongoing



.wav

md .wav

md .mp3 md ...

.wav MD5

.wav MD5 .mp3 MD5 ... MD5

.wav .xml

.wav XML .mp₃ XML

... XML

.xml MD5









Proper physical storage



RAID and Redundant Storage



Different Media Types









Geographical separation



Automated data integrity monitoring

Handout

QA_QC_Considerations.pdf



Permanence Persistence Preservation

Quality Control

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