DigitalPreservationCoalition

Digital Preservation Tools
3 (4) things that might help

Ingest: Pronom + Droid
Costs: LIFE
Certification: Data Seal of Approval

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Pronom + Droid: eh?

Pronom: a register of file formats and their behaviours

DROID: a tool that uses Pronom to analyse the files on a system and report any issues that arise

http://www.nationalarchives.gov.uk/PRONOM/Default.aspx

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file formats and their characteristics

The National Archives

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You are here: Home > Services for professionals > Preservation > PRONOM

The technical registry
PRONOM

Welcome : About Add an entry
Search Help Information resources

Welcome to PRONOM

PRONOM changes and DROID signature file release notes.

Find out more about our plans to make PRONOM's data avai

The online registry of technical information. PRONOM is a re
software products and other technical components required
historical or business value. Find out about the future of PR

Search PRONOM ›

Simple search | File format | PRONOM Unique Identifier | Software | Vendor | Lifecycles | Migration Pathways

Details for: Tagged Image File Format 3

Save as... XML | CSV Print

Go to: Summary | Documentation › | Signatures › | Compression › | Character encoding › | Rights › | Reference files › Properties ›

Summary

Name	Tagged Image File Format
Version	3
Other names	TIFF (3)
Identifiers	PUID: fmt/7 MIME: image/tiff Apple Uniform Type Identifier: public.tiff
Family	
Classification	Image (Raster)
Disclosure	Full
Description	The Tagged Image File Format (TIFF) is a raster image format originally developed by the Aldus Corporation, primarily for use in scanning and desk-top publishing. When Adobe Systems Incorporated purchased Aldus in 1994, they acquired the rights to the TIFF format and have maintained it since then. TIFF files comprise three sections: an Image File Header (IFH), an Image F Directory (IFD), and the image data. TIFF files can contain multiple images (multi-page TIFF), and ea image has a separate IFD. The IFH always appears at the beginning of the file, and is immediately followed by a pointer to the first IFD. The IFD contains metadata which describes the associated image, stored as a series of tags. The IFD also contains a pointer to the actual image data. TIFF 3.0 supports colour depths from 1 bit to 24 bit (e.g. monochrome to true colour), and a range of compression types (RLE, and CCITT Group 3 and Group 4)

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DROID: Search and report on files from an entire network

Identify files by extension
Identify files by contents
Report errors and concerns

Automated processes and Scalability ...

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Pronom + Droid: Ingest processes

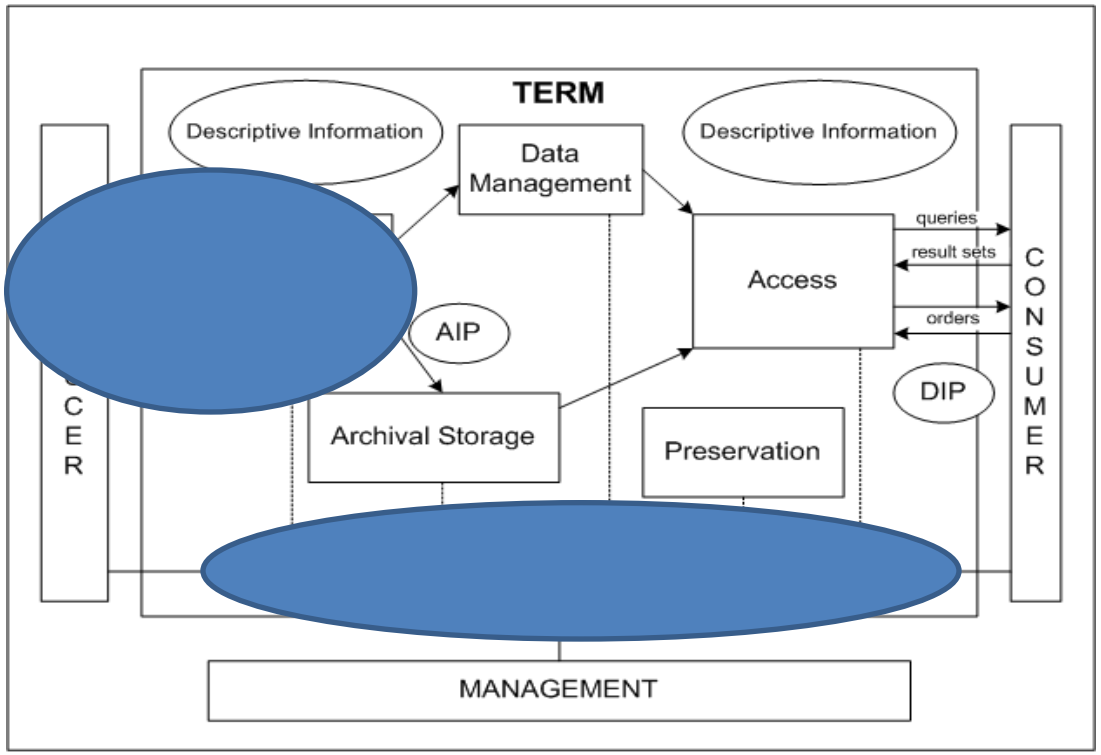


Fig. 1. Major functions of the OAIS Reference Model from Consultative Committee for Space Data Systems (CCSDS), CCSDS 650.0-W-1, Producer-Archive Interface Methodology Abstract Standard. (OAIS). White Book. Issue 1. Draft Recommendation for Space Data System Standards.

Need to know what you've got.

Is it what it says it is?

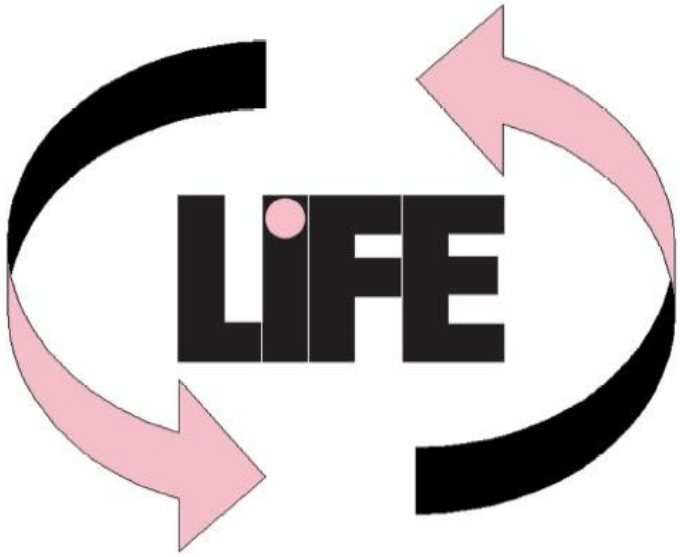
Planning and management

LIFE Project

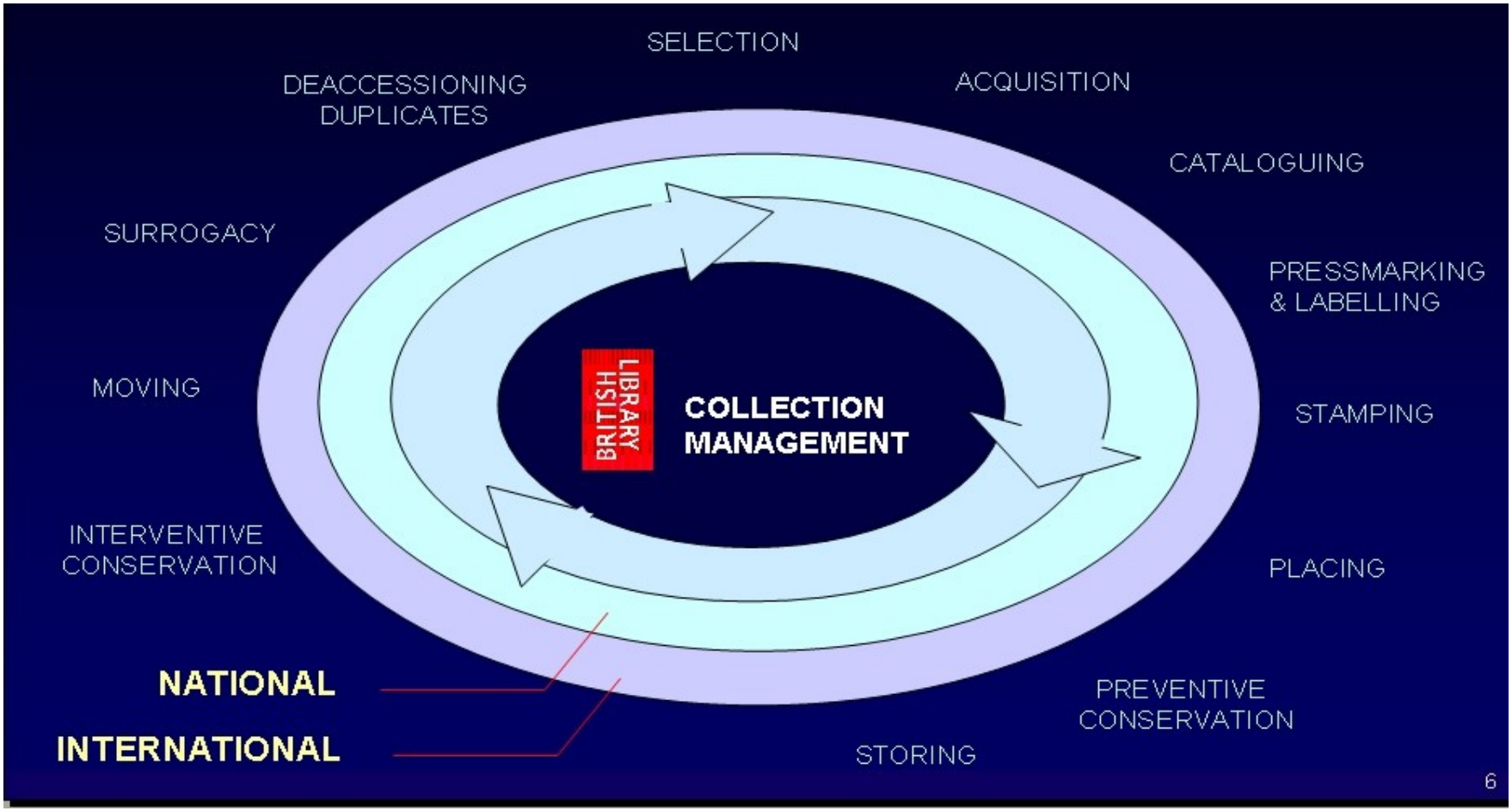
Partners, UCL/BL

Funded by JISC

http://www.life.ac.uk/



LIFE: BL's lifecycle collection management cost model



LIFE: lifecycle Costing formula

A regular monograph

$K(t) = s+a+c+cs+hl+p(t)+cs(t)+r(t)$

s = selection cost;

a = acquisition cost (excluding the purchase price);

c = cataloguing cost;

pl = initial preservation cost (such as an archival enclosure);

hl = initial handling cost (including pressmarking, labelling, and placing);

p(t) = the likely preservation cost over time (including interventive conservation); cs(t) = the collection storage cost over time;

r(t) = the likely retrieval and replacement cost over time.

http://www.life.ac.uk/

L is the complete lifecycle cost over time 0 to T. Other categories are

Aq – Acquisition,

I – Ingest,

M – Metadata,

Ac – Access,

S – Storage,

P – Preservation

http://www.life.ac.uk/

$$L_T = Aq + I_T + M_T + Ac_T + S_T + P_T$$

Lifecycle element	Acquisition	Ingest	Metadata	Access	Storage	Preservation
Element 1	Selection (Aq1)	QA (I1)	Characterisation (M1)	Reference linking (Ac1)	Bit-stream storage costs (S1)	Technology watch (P1)
Element 2	IPR (Aq2)	Deposit (I2)	Descriptive (M2)	User support (Ac2)		Preservation tool cost (P2)
Element 3	Licensing (Aq3)	Holdings update (I3)	Administrative (M3)	Access Mechanism (Ac3)		Preservation metadata (P3)
Element 4	Ordering and invoicing (Aq4)					Preservation action (P4)
Element 5	Obtaining					Quality assurance (P5)
Element 6	Check-in (Aq6)					

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What does success look like? Certification

Trusted Digital Repository
TRAC
DRAMBORA
BS 10008
Data Seal of Approval

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Data Seal of Approval
http://datasealofapproval.org/

16 criteria
Self assessment against criteria
Aimed at academic research data
UK Data Archive & Archaeology Data Service
‘Entry level’, ‘Bronze’ certification
Brings certification within reach ...

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