

Rosetta

A Digital Preservation System

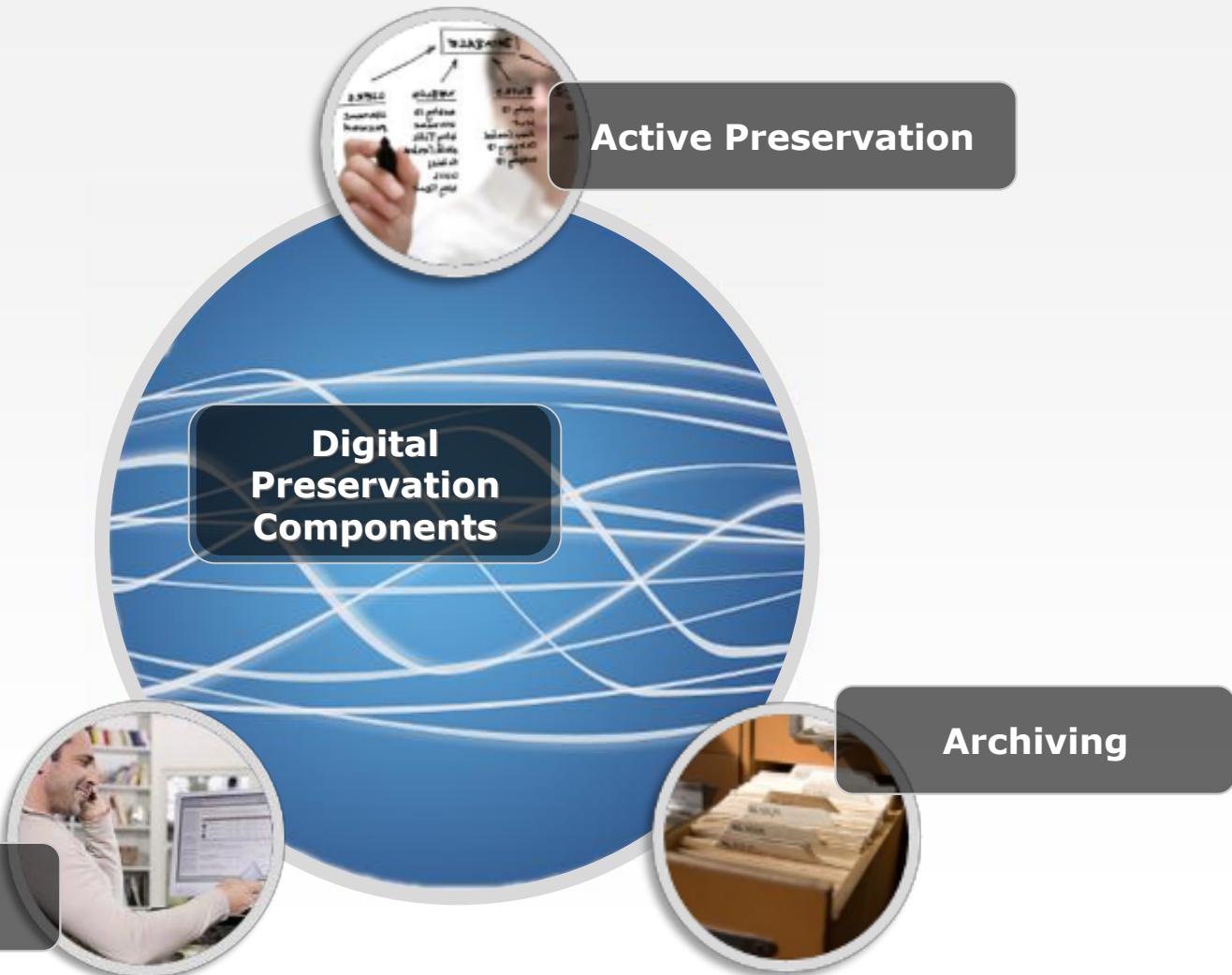
December 2011

Ido Peled

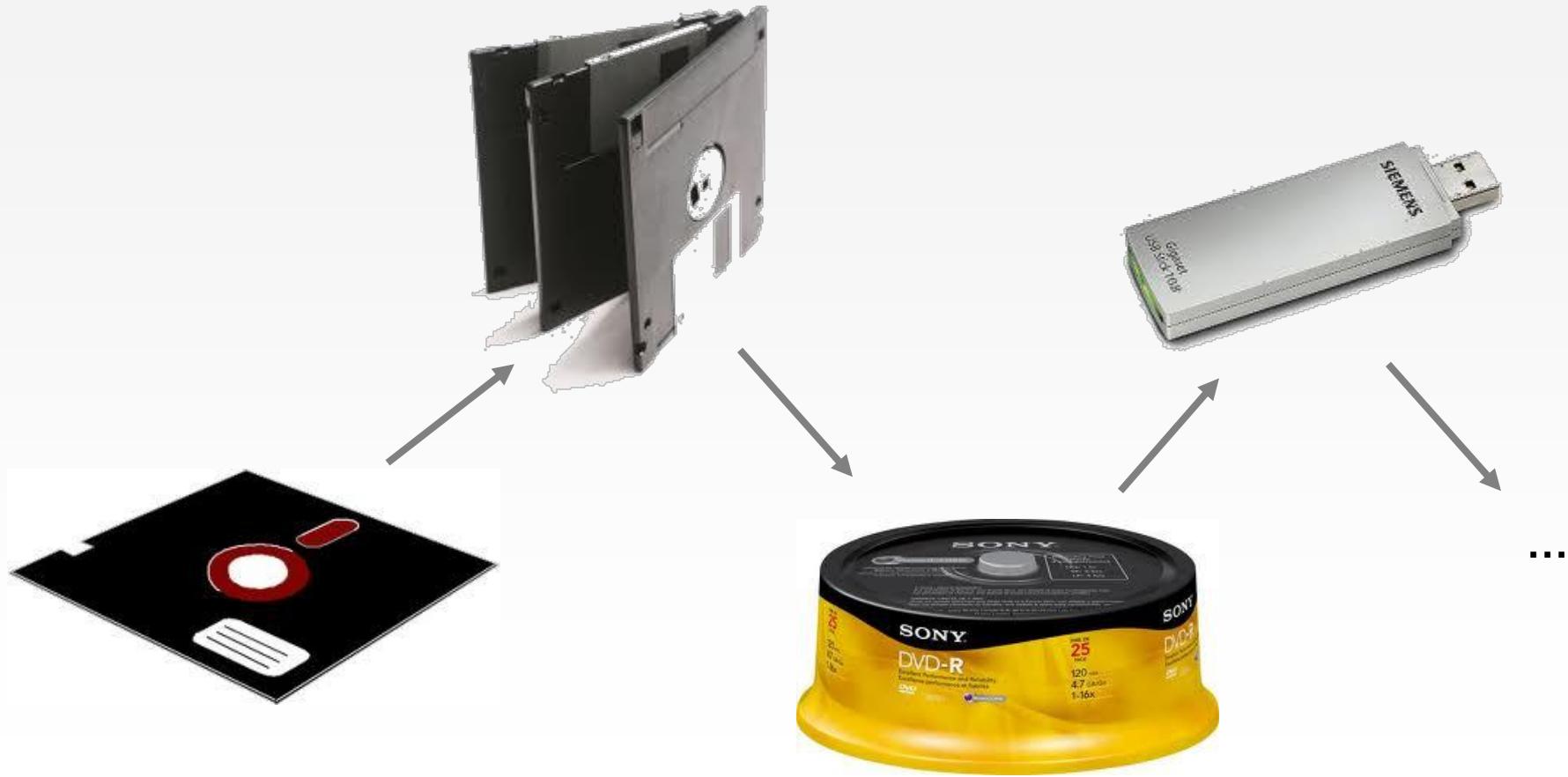
Rosetta Product Manager



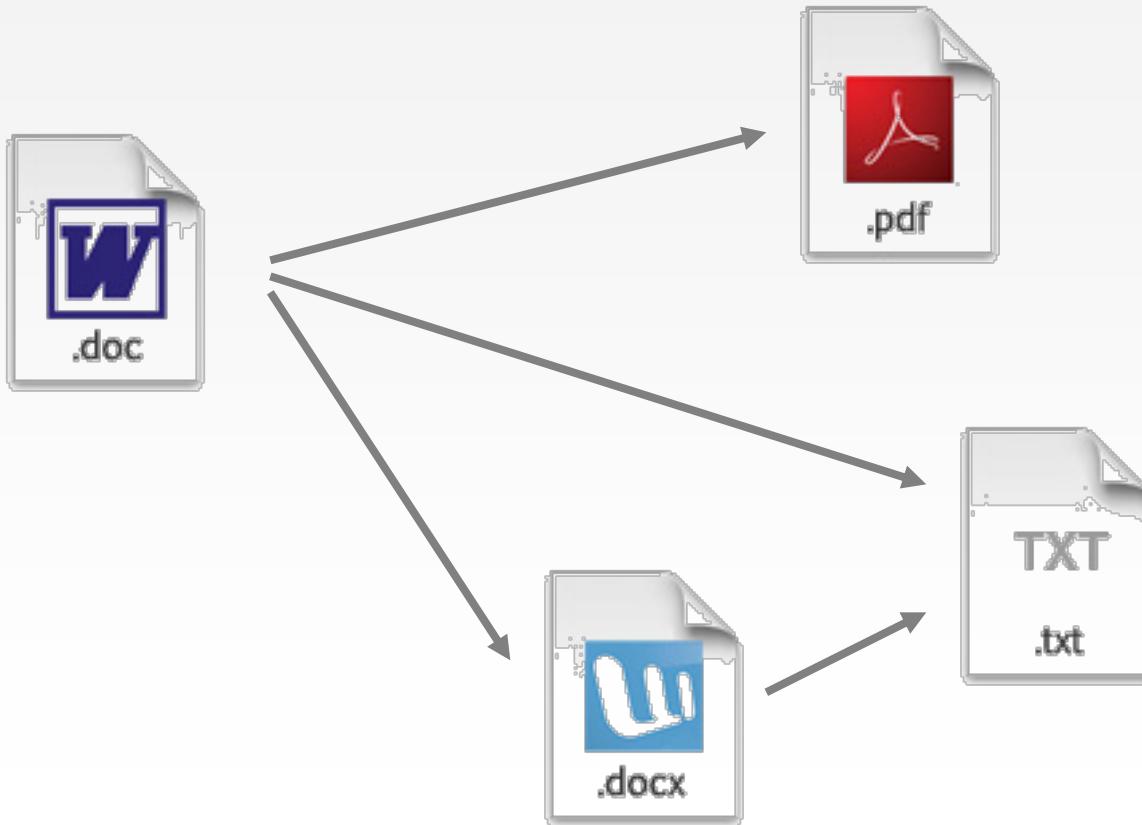
Digital Preservation Components



Need to Think of Changing Media



Need to Think of Changing Formats



Digital Preservation as Part of the Digital Library

Cost Effective

Online Access



Ongoing Actions

Risk Analysis

Migration

Bit Preservation



Sustainable Digital Preservation

The Strategy – Sustainable Digital Preservation



CONSOLIDATE

Consolidate all digital collections



OPTIMIZE

Optimize through automation



EXTEND

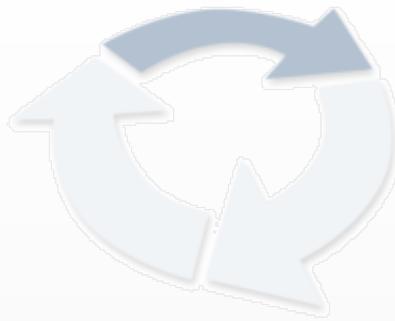
Extend the library offering and collaborations

The Strategy – Sustainable Digital Preservation



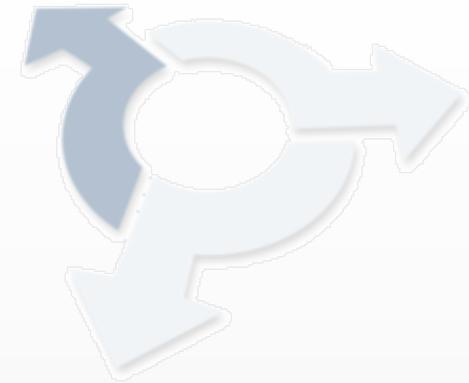
CONSOLIDATE

Consolidate all digital collections



OPTIMIZE

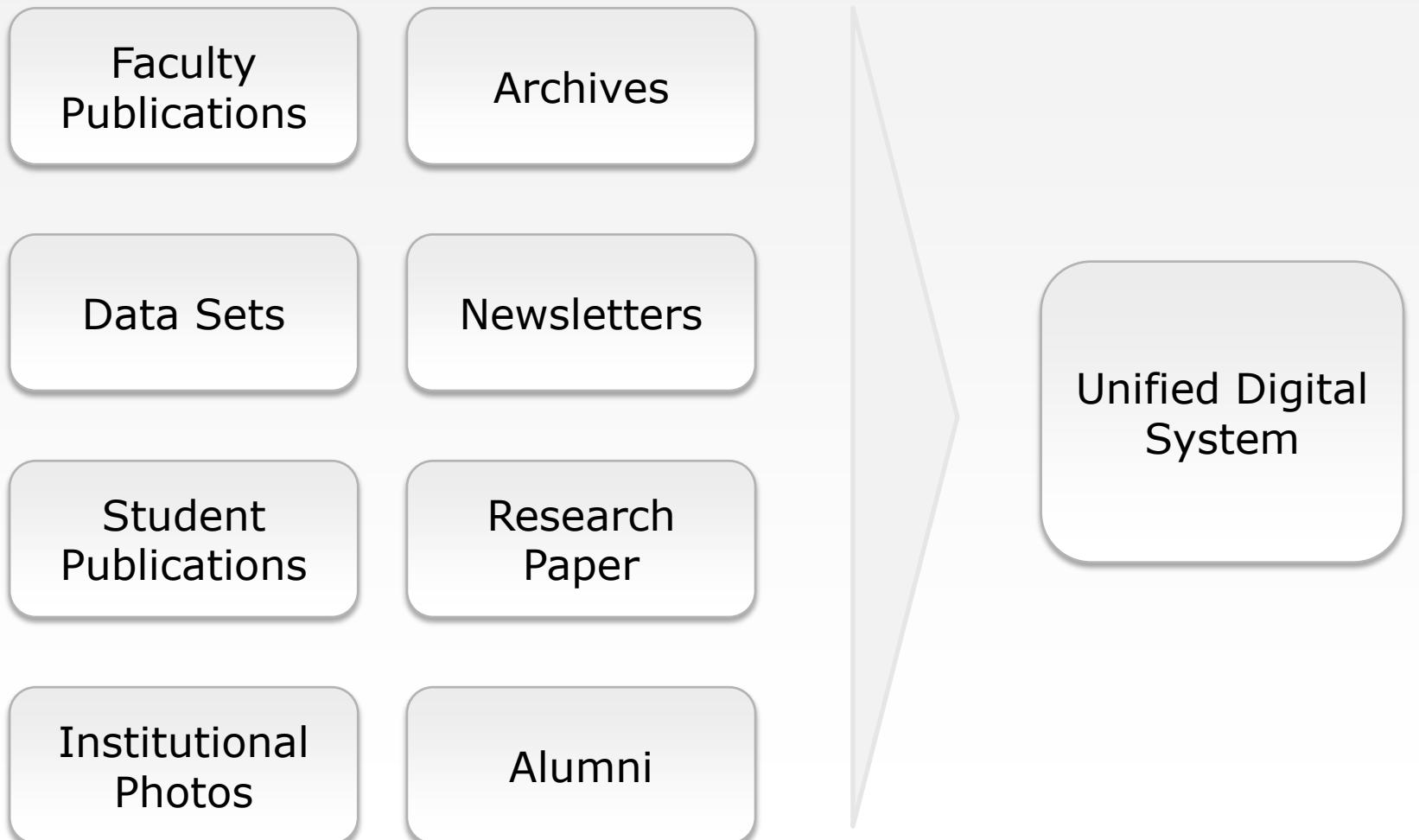
Optimize through automation



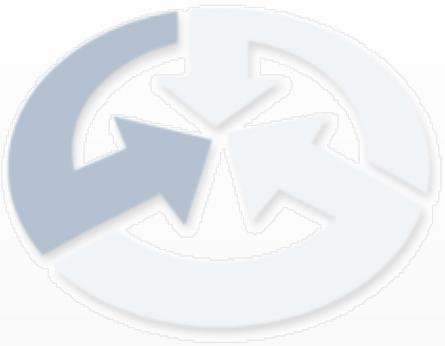
EXTEND

Extend the library offering and collaborations

Consolidate



The Strategy – Sustainable Digital Preservation



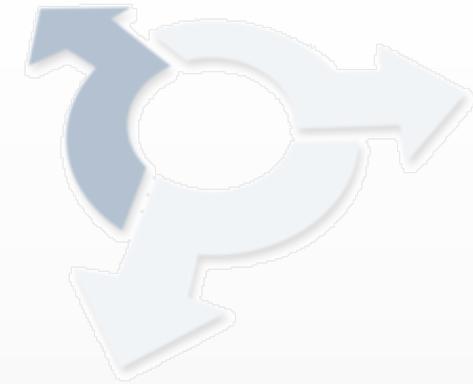
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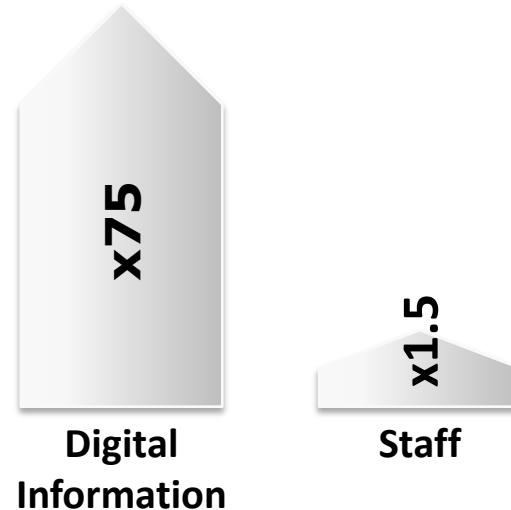
Extend the library offering and collaborations

Optimize

“As the rate of digital information production continues to escalate, it is vitally important to reduce the cost of preservation for all types of digital assets”

Sustainable Economics for a Digital Planet, Final Report of the Blue Ribbon Task Force

Taken from ‘The 2011 IDC Digital Universe Study’



- Collaboration between British Library and UCL
- Developed a generic lifecycle costing formula
- See <http://www.life.ac.uk/>

$$L_T = C + Aq_T + I_T + M_T + BP_T + CP_T + Ac_T$$

L = Complete lifecycle cost over time 0 to T.

C = Creation

Aq = Acquisition

I = Ingest

M = Metadata Creation

BP = Bit-stream Preservation

CP = Content Preservation

Ac = Access

Optimize Ingest



Automated ingest workflows & quality assurance process

ExLibris Rosetta Deposit

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Check All Uncheck All Send

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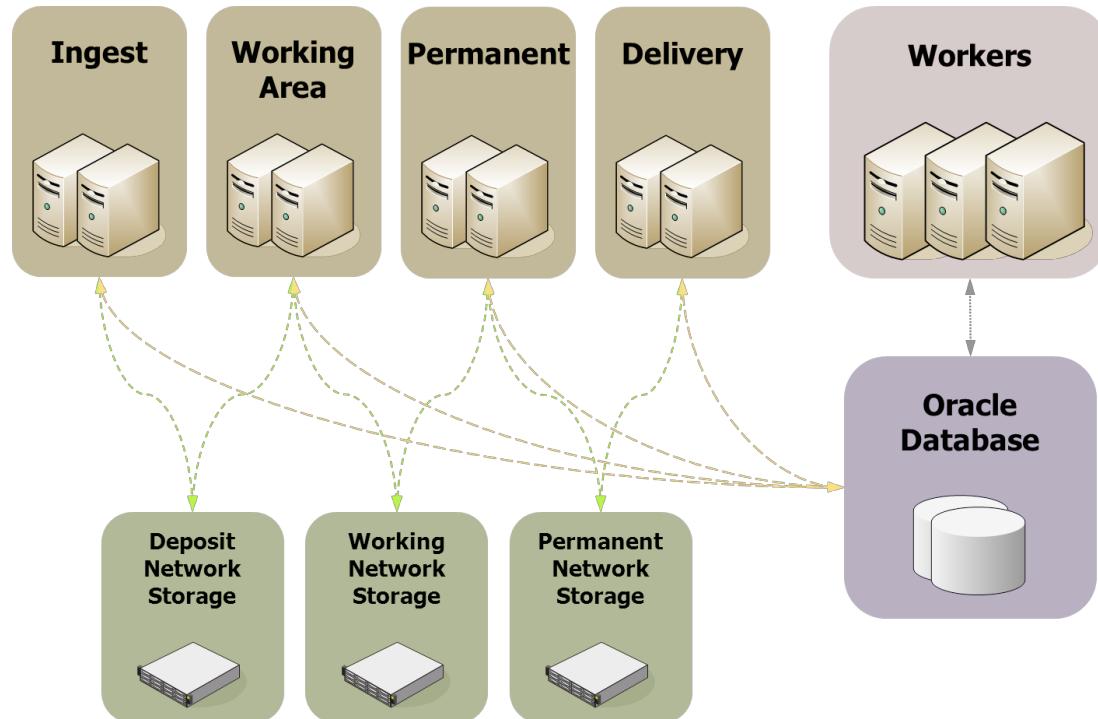
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Optimize Ingest



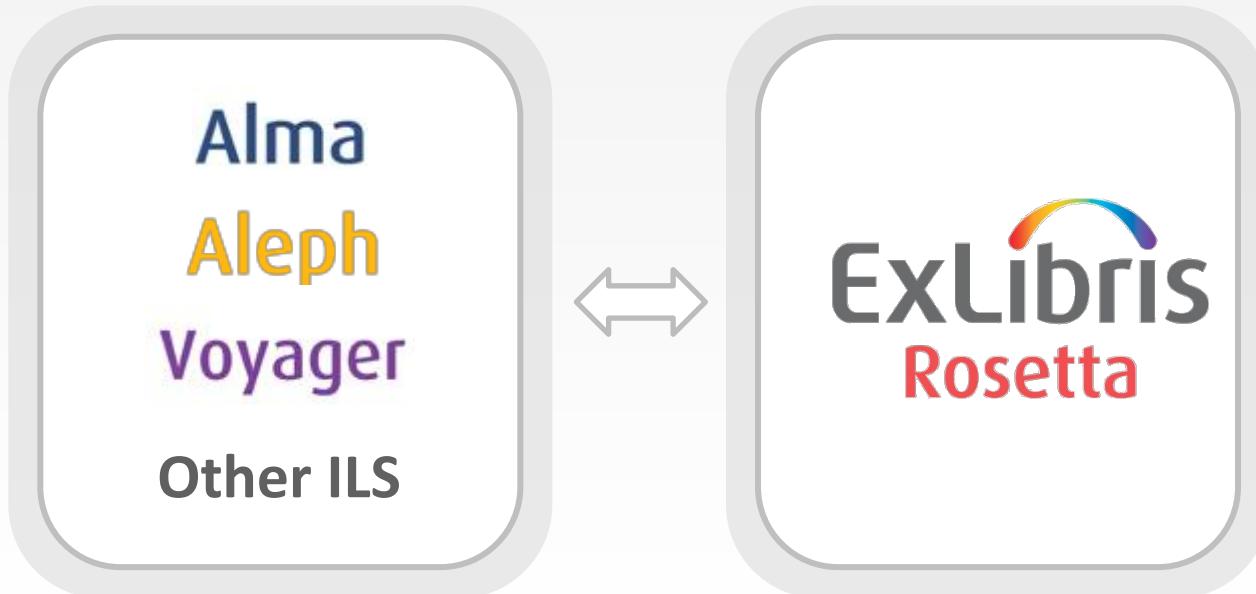
Scalable Infrastructure supporting mass-ingest and mass-processing



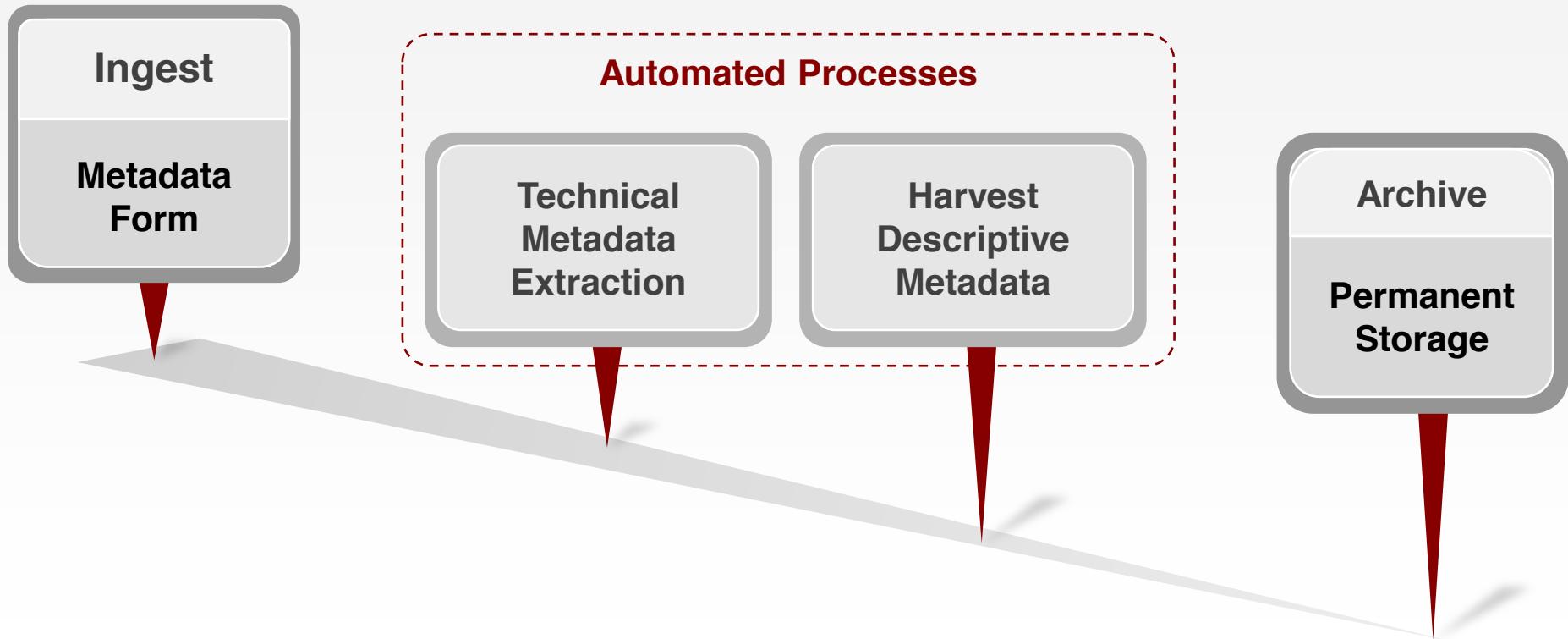
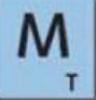
Optimize Metadata Creation

M
T

Integration with existing cataloging systems



Optimize Metadata Creation



Optimize Bit Preservation



Automated scheduled fixity checks, storage abstraction layer, full-replication on disk

ExLibris Rosetta

User: John Smith Language: English ▾ Help Logout

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DNX Record

MID Created by Updated by	DNX_FL14513 staffuser	Metadata Type Creation Date Update Date	dnx:dnx 22/07/2011 16:57:39 22/07/2011 16:57:39	Description
---------------------------------	--------------------------	---	---	-------------

object Characteristics
Relationship
creating Application
internal Identifier
file Fixity
event
file Virus Check
file Format
general File Characteristics
file Validation
significant Properties
vs Outcome

agent
fixity Type
fixity Value

REG_SA_JAVA5_FIXITY
SHA1
28567dad663be617f160b56a17199d7e34089b2f

< Back

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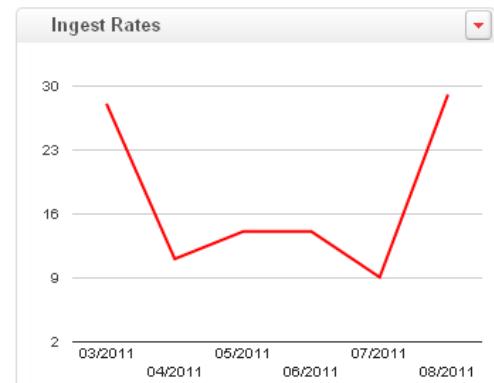
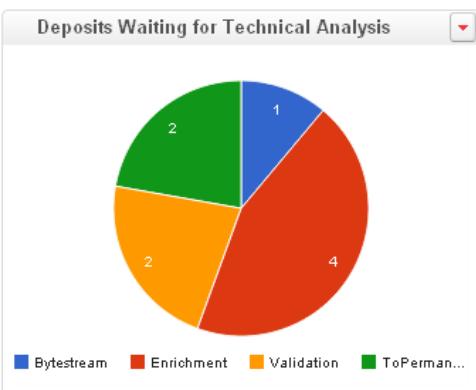
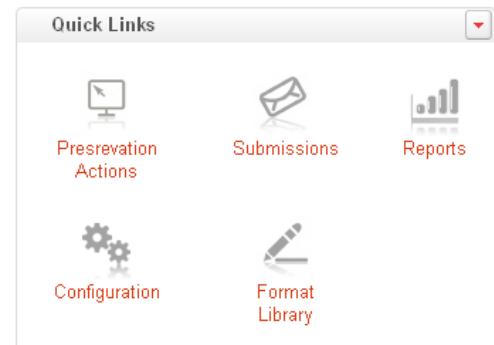
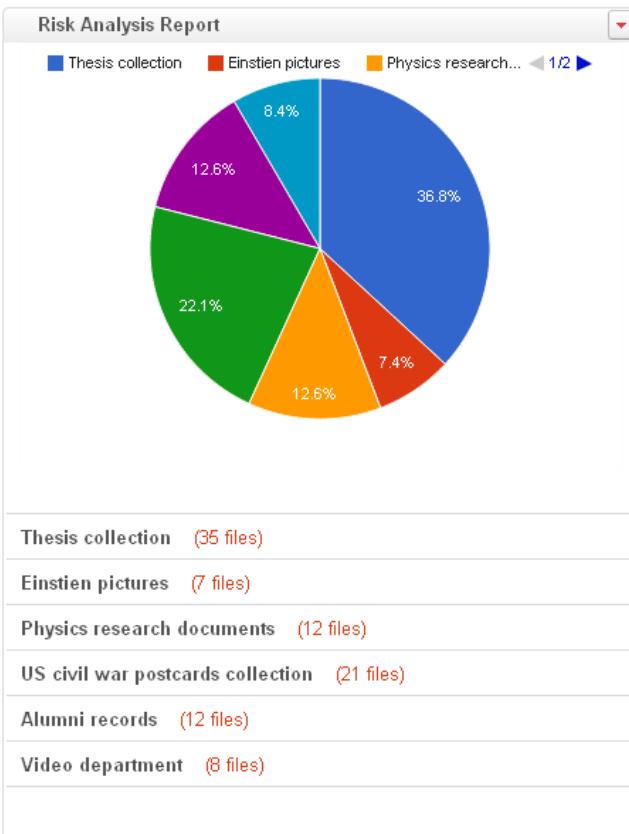
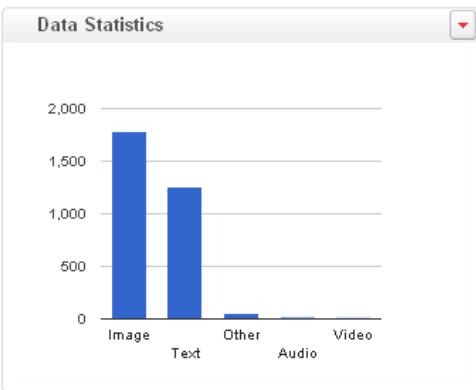
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Optimize Content Preservation

CP
T

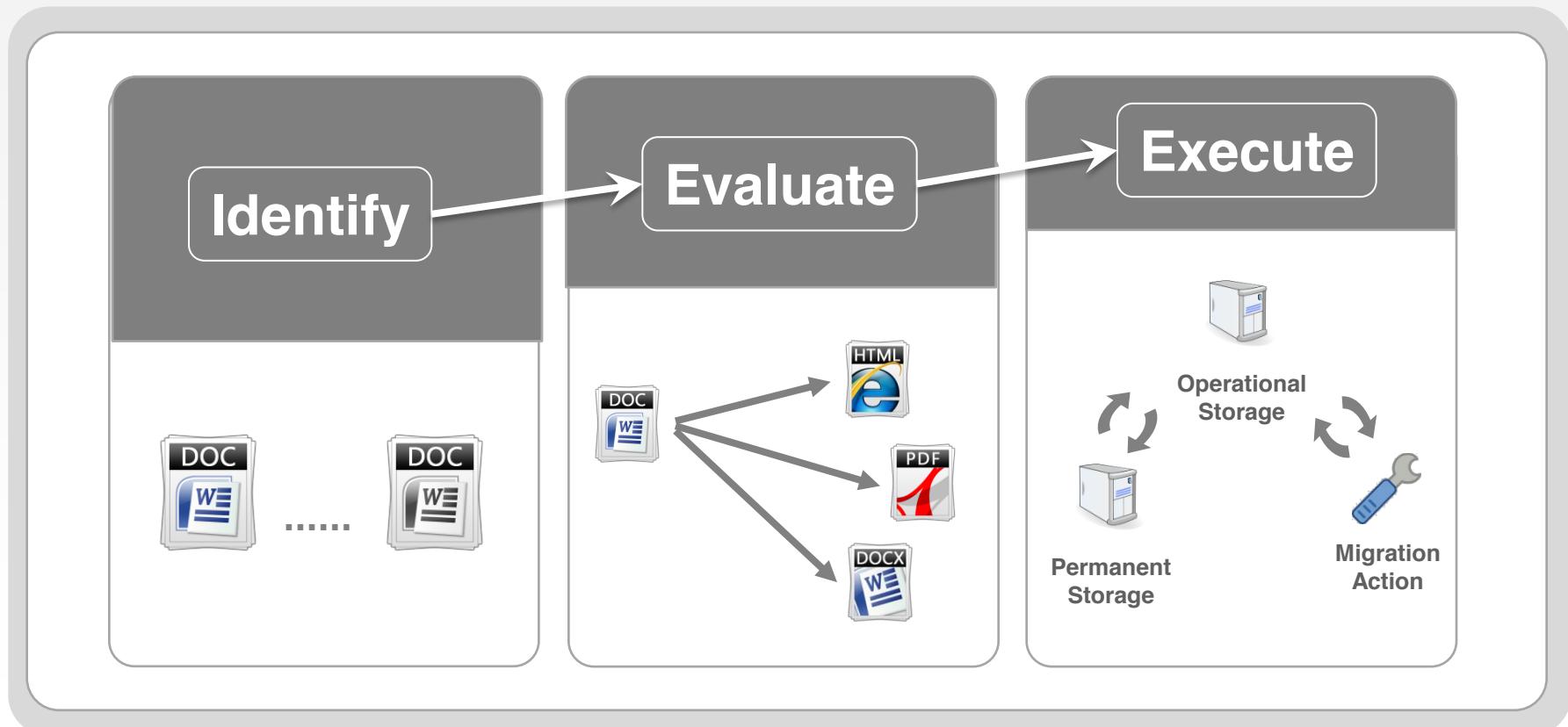
Preservation Dashboard



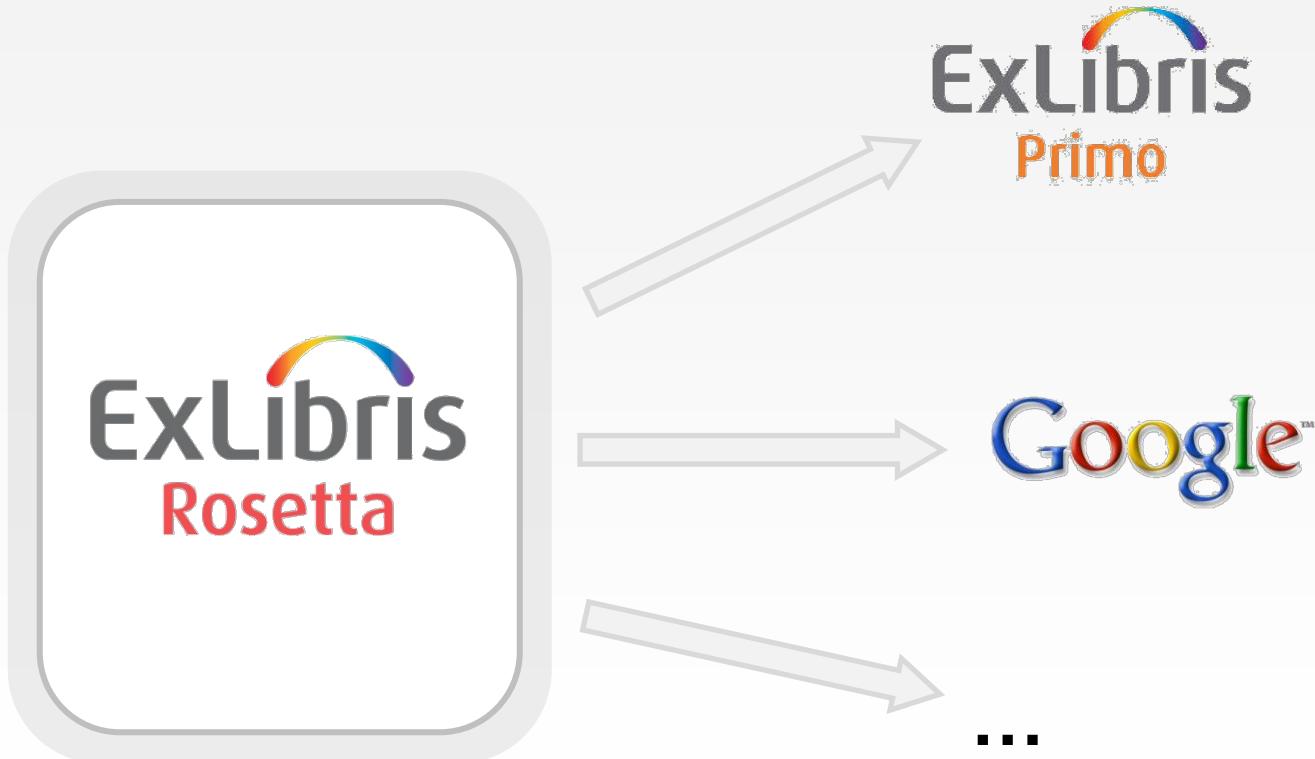
Optimize Content Preservation

CP
T

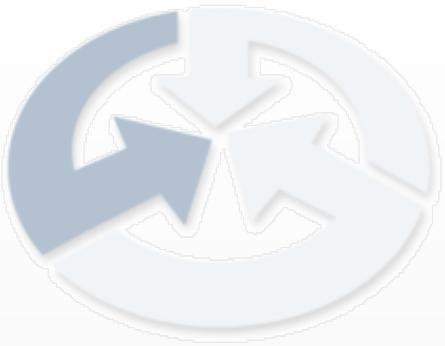
Automated migration action



Automated rule-based distribution

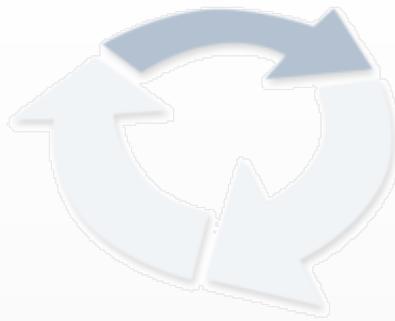


The Strategy – Sustainable Digital Preservation



CONSOLIDATE

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OPTIMIZE

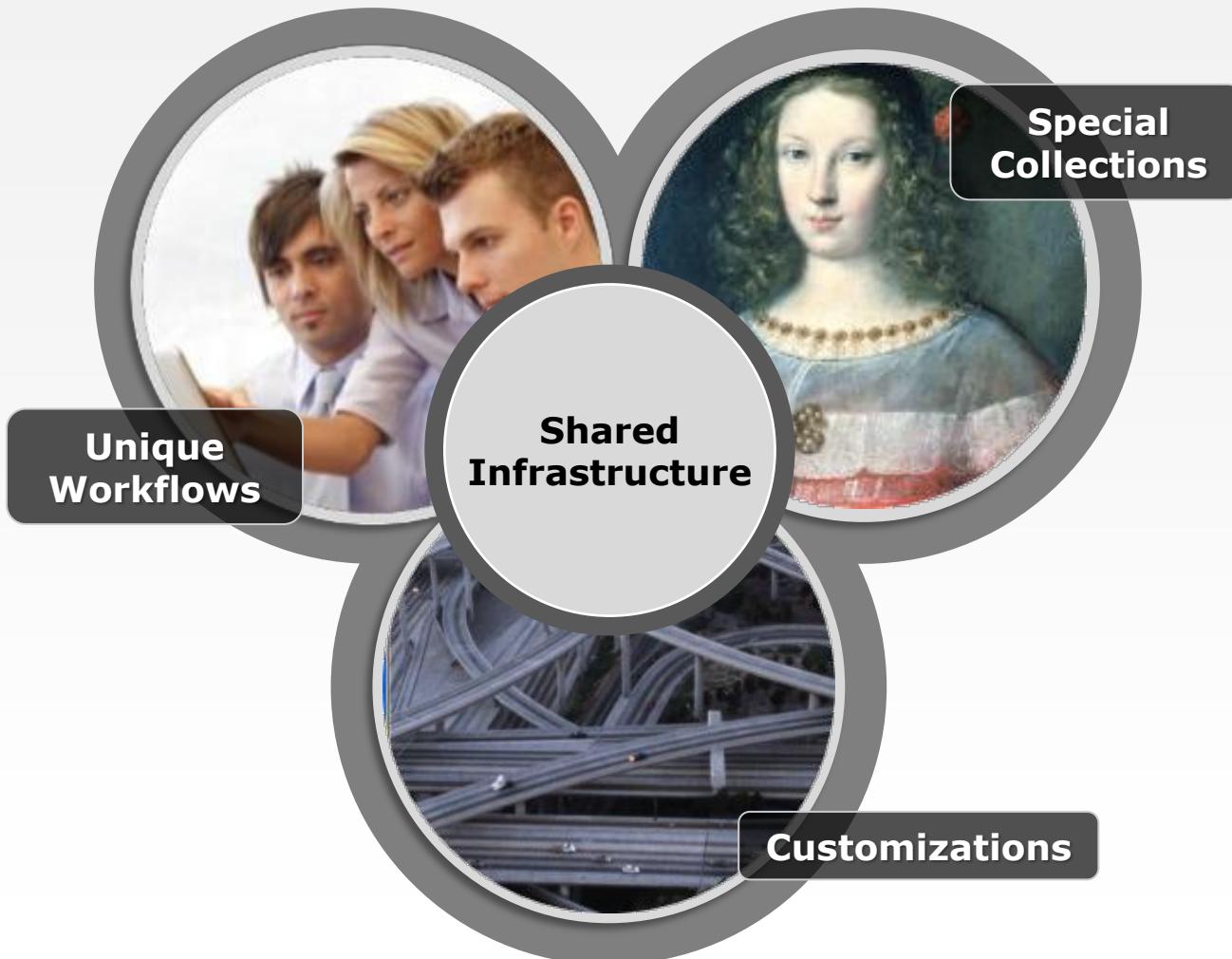
Optimize through automation



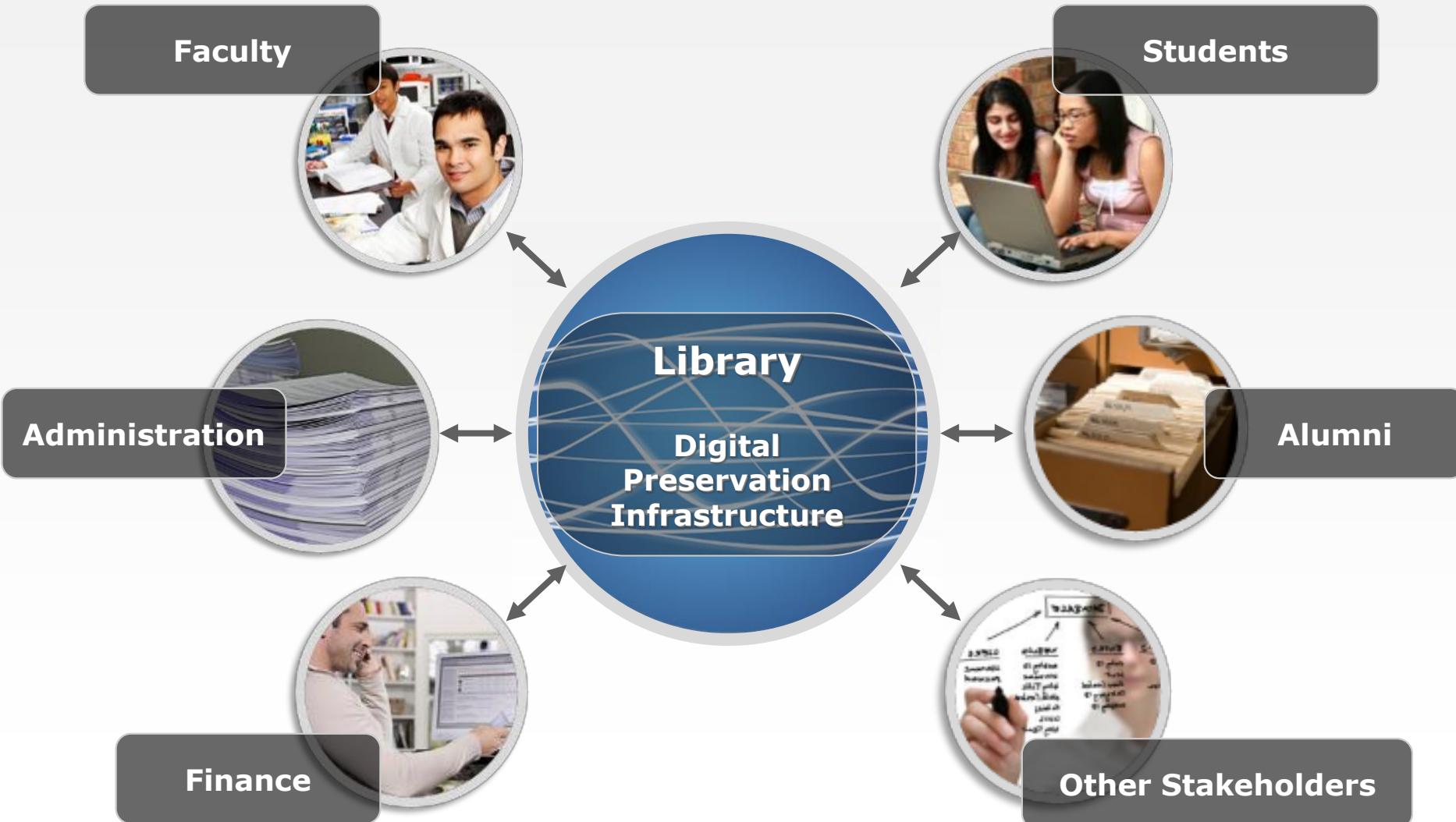
EXTEND

Extend the library offering and collaborations

Extend Collaborative Work



Extend The Library Reach



The Strategy – Sustainable Digital Preservation



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Consolidate all digital collections



OPTIMIZE

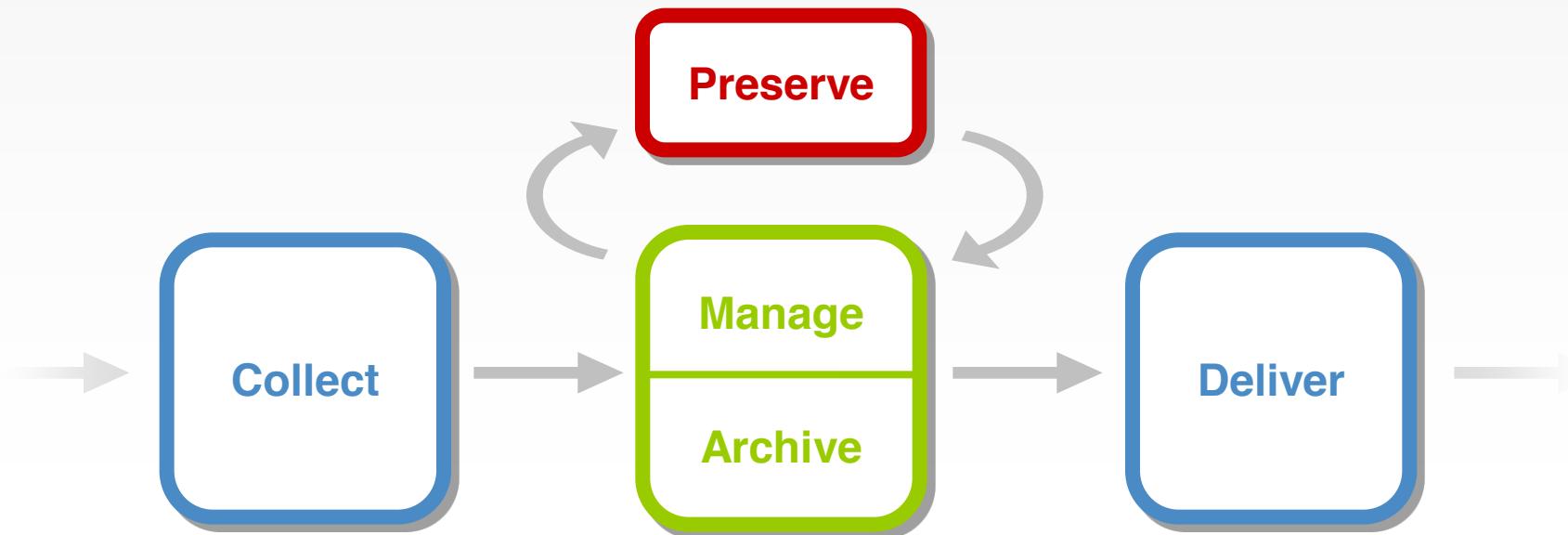
Optimize through automation



EXTEND

Extend the library offering and collaborations

Ex Libris Rosetta helps institutions in **collecting, managing, archiving** and **preserving** their digital collections, ensuring its **data integrity** and **access over time**

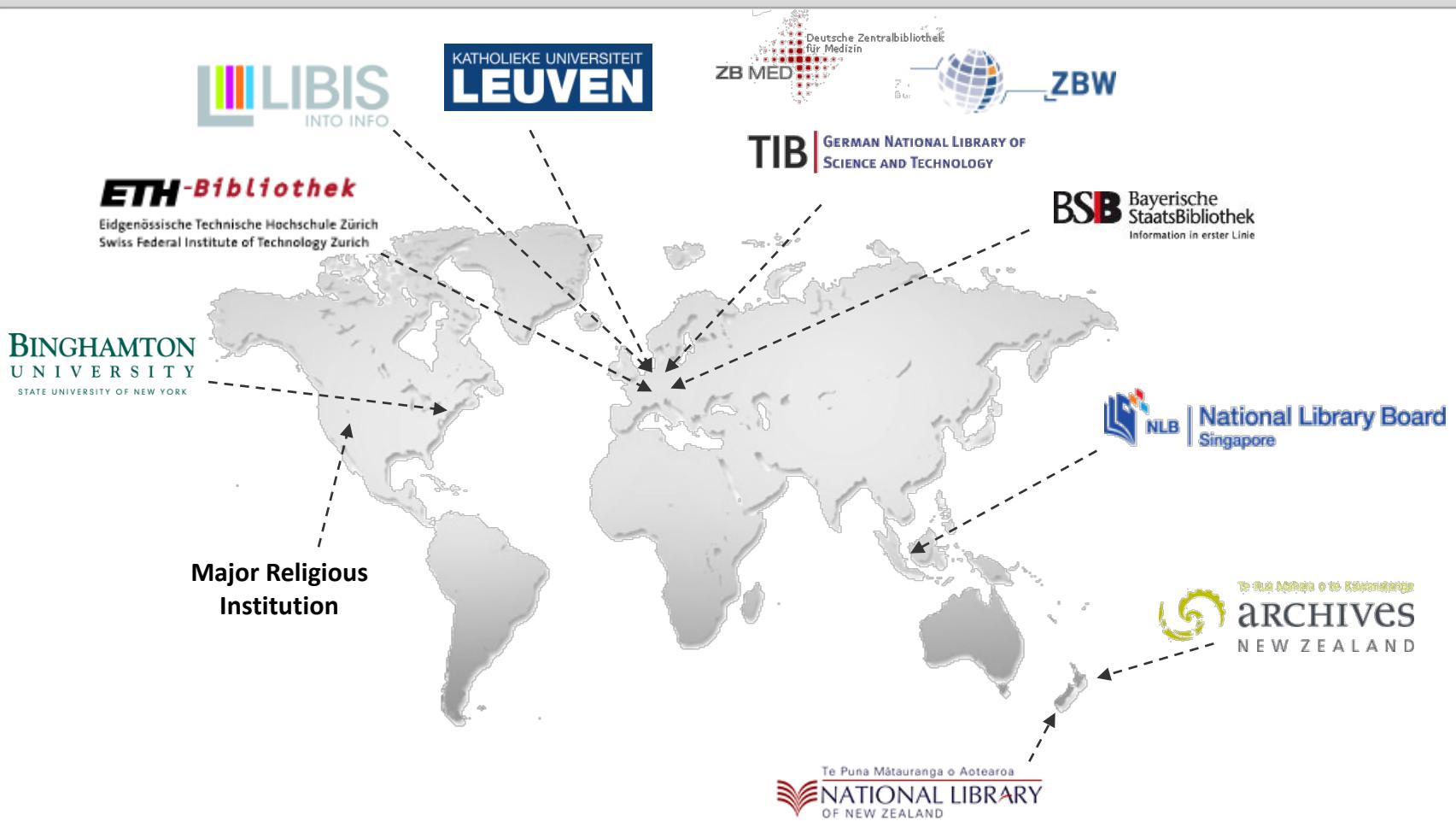


Rosetta as an Ex Libris Strategic Initiative

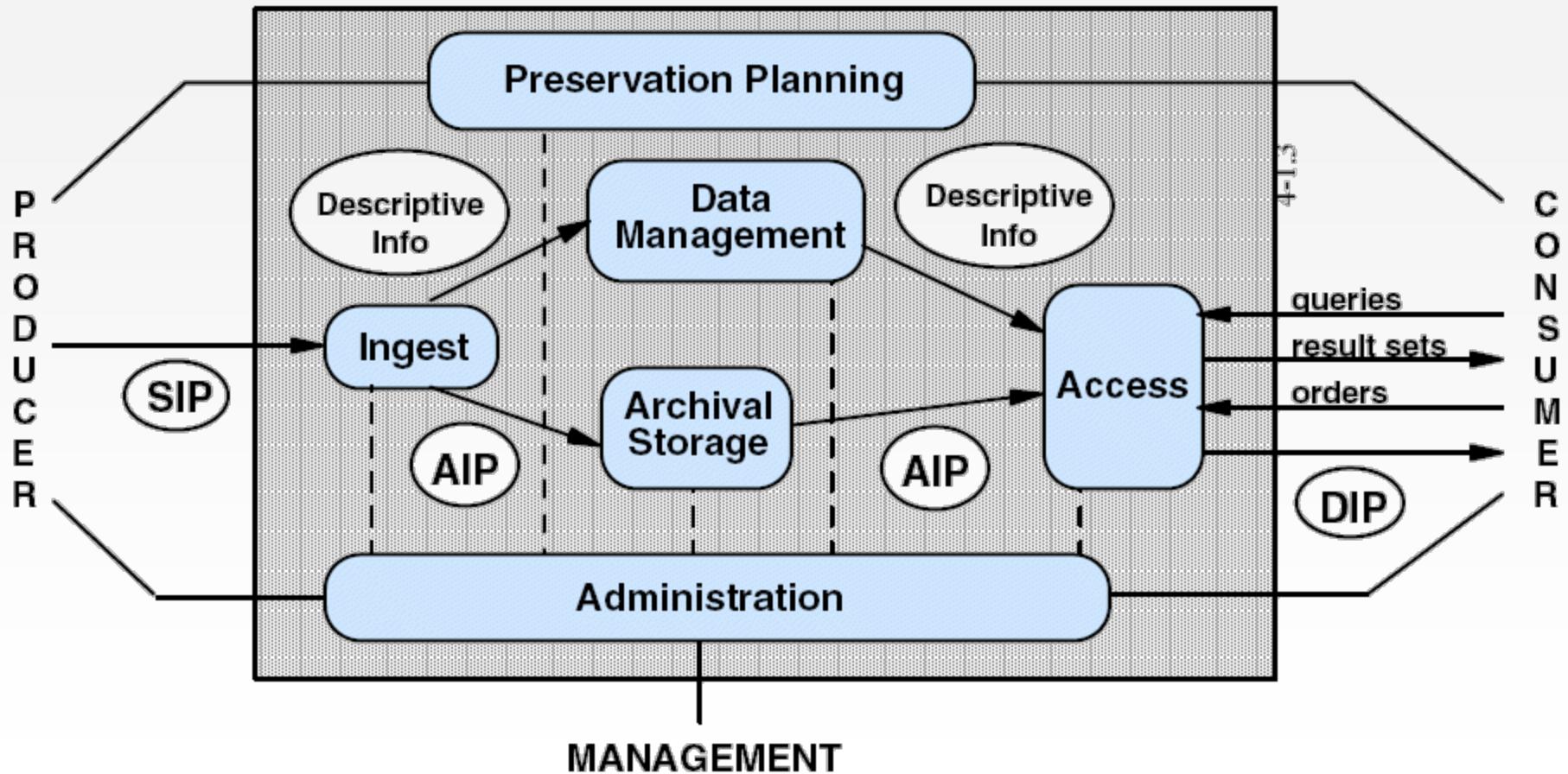
- Initiative began in 2007
- Investment to date of over 135 person years
- Development Partner
- Peer review group
- Advisory group
- Worldwide customer base



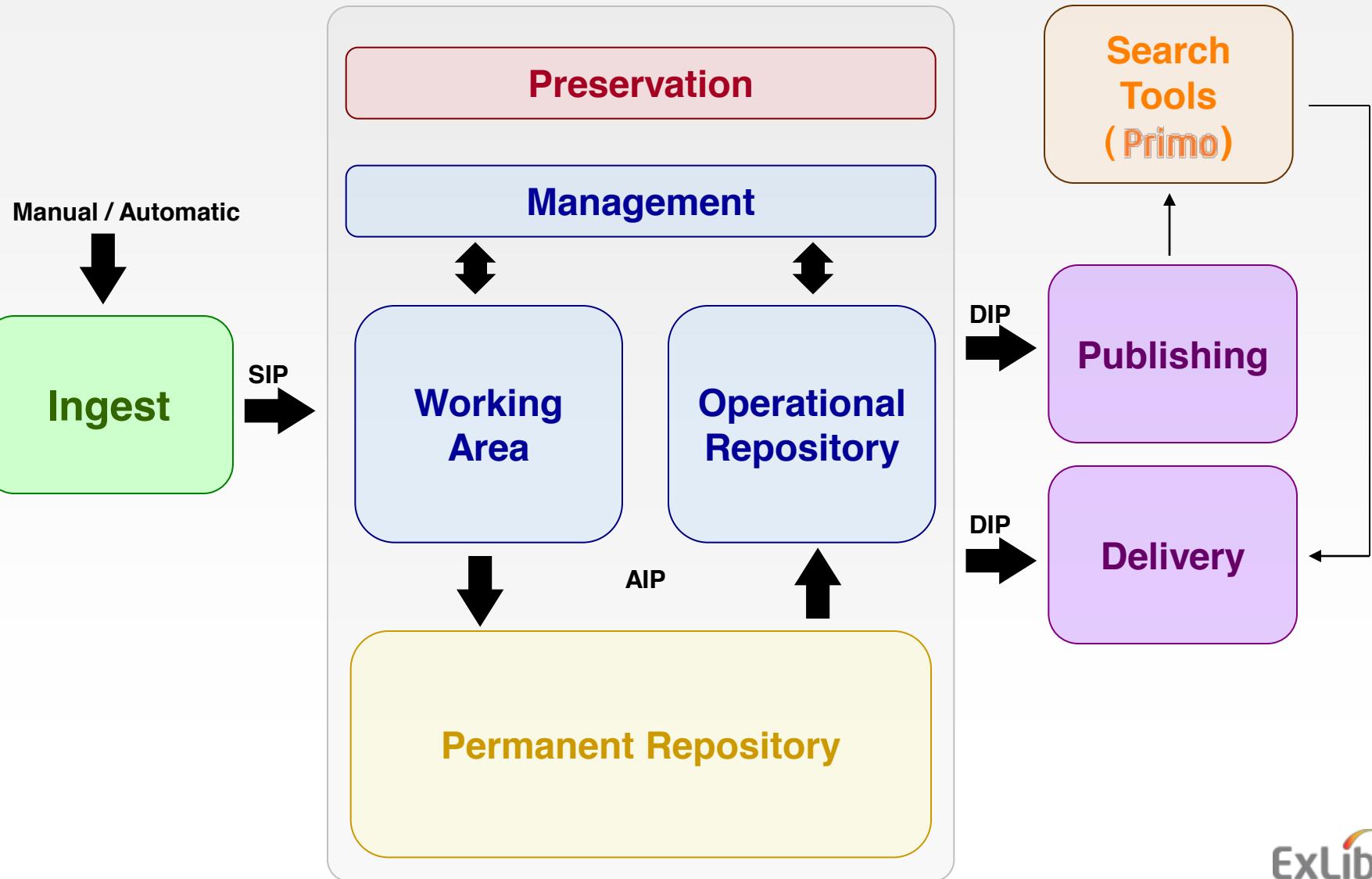
Our Customers Around the World



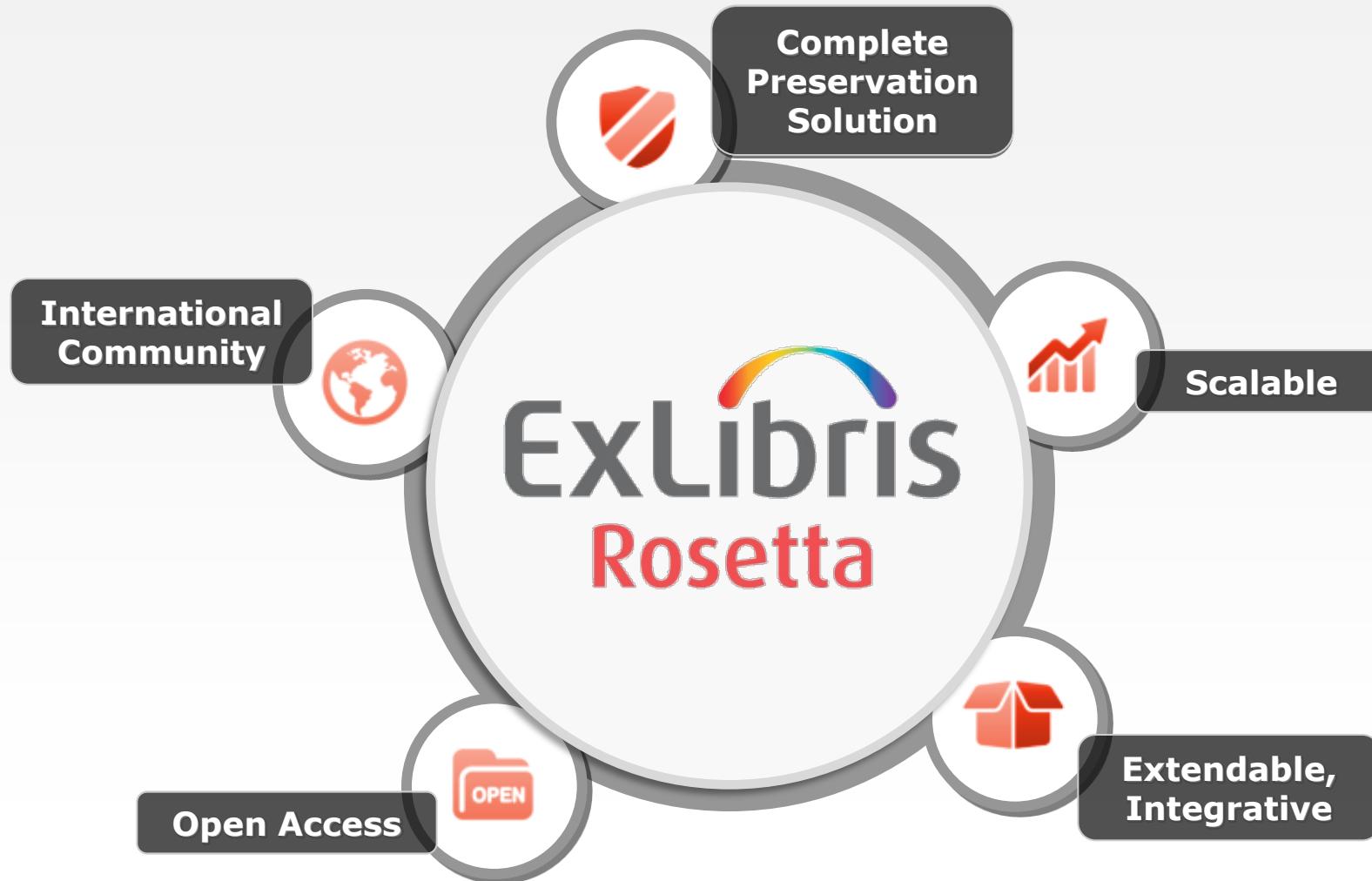
OAIS Model



Rosetta Modules



Key Features





Thank You!

Ido.Peled@ExLibrisGroup.com

ExLibris
The bridge to knowledge