



Sun Preservation and Archiving Special Interest Group (PASIG)

Graham Coe

National Digital Heritage Archive Programme Sponsor

National Library of New Zealand

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NDHA Programme Background

Call to action

Wait or act now

- Legislative mandate and strategic context



**National Library of New Zealand (Te Puna
Mātauranga o Aotearoa) Act 2003**

Public Act 2003 No 19
Date of assent 5 May 2003
Commencement see section 2



- Development of digital preservation expertise



- International library community

NDHA Programme

Goal

Collection,
preservation
and access in
perpetuity

Establish the National Digital Heritage Archive to enable the National Library of New Zealand to meet its **mandate** to **collect**, make **accessible**, and **preserve in perpetuity**, New Zealand's **digital heritage**, as defined by the Library's current collection policy.

NATIONAL
DIGITAL HERITAGE
ARCHIVE

Securing the Future



Development decision

Goal

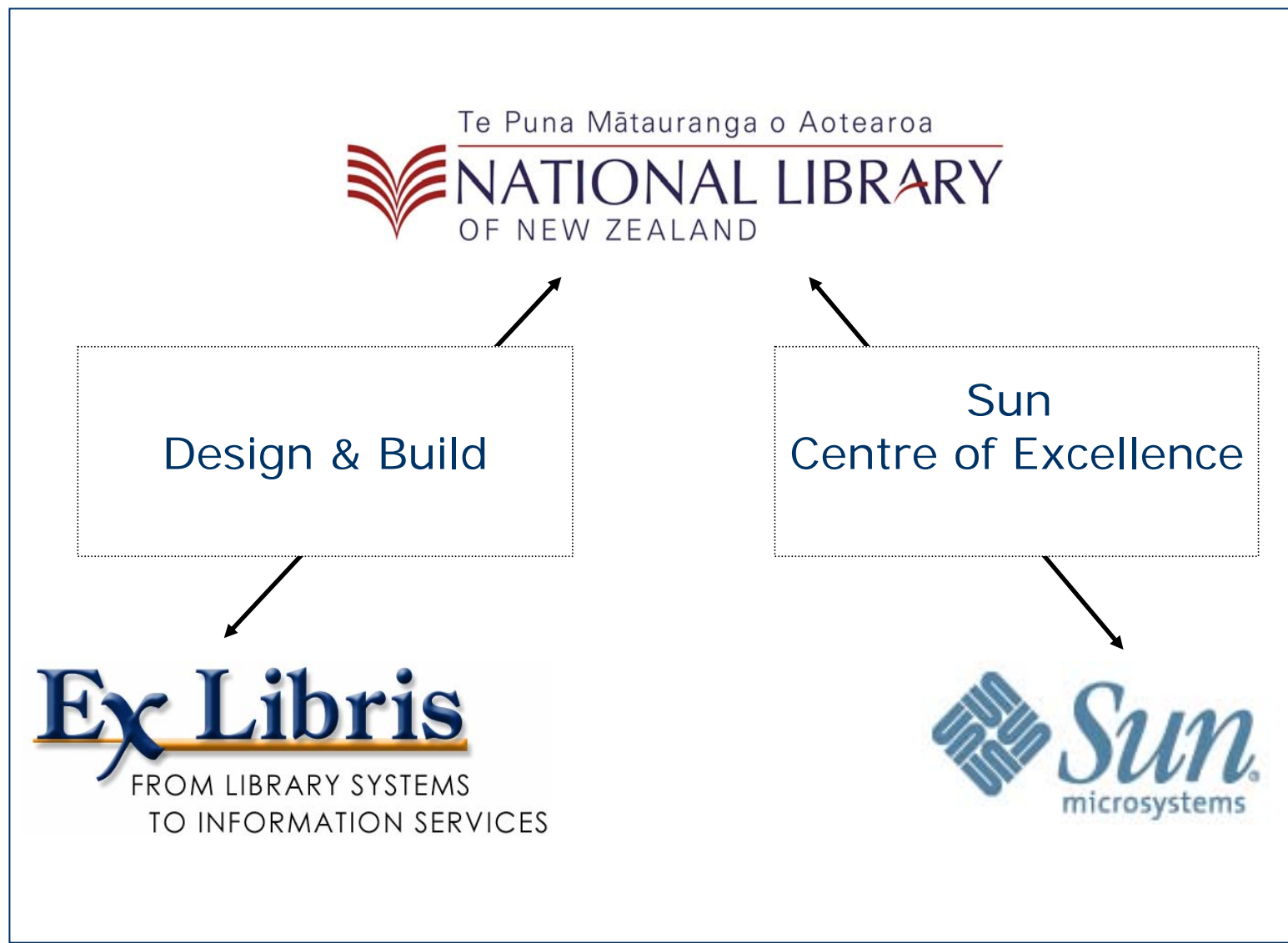
**Collection,
preservation
and access in
perpetuity**

- Commercial solution
vs. building it yourself
vs. project based company
- Important to look at the required institutional outcome
- Repository solutions, digital archiving solutions and digital preservation systems are unlikely to be the same thing

Collaboration

Partnership

The NDHA Programme will be successful and delivered in a timely and cost effective manner



Stakeholder

“anyone who is affected by – or - can influence, the decision or outcome”

NDHA Peer Review Group

- British Library
- Cornell University Library
- Getty Research Institute
- National Library of Finland
- Koninklijke Bibliotheek
- National Library Board of Singapore
- National Library of China
- Sun Microsystems
- University of Glasgow
- Yale University

The Solution

Digital
Preservation
Solution
(DPS)

**It is important
from NLNZ
perspective that
the solution is
not NLNZ
specific**

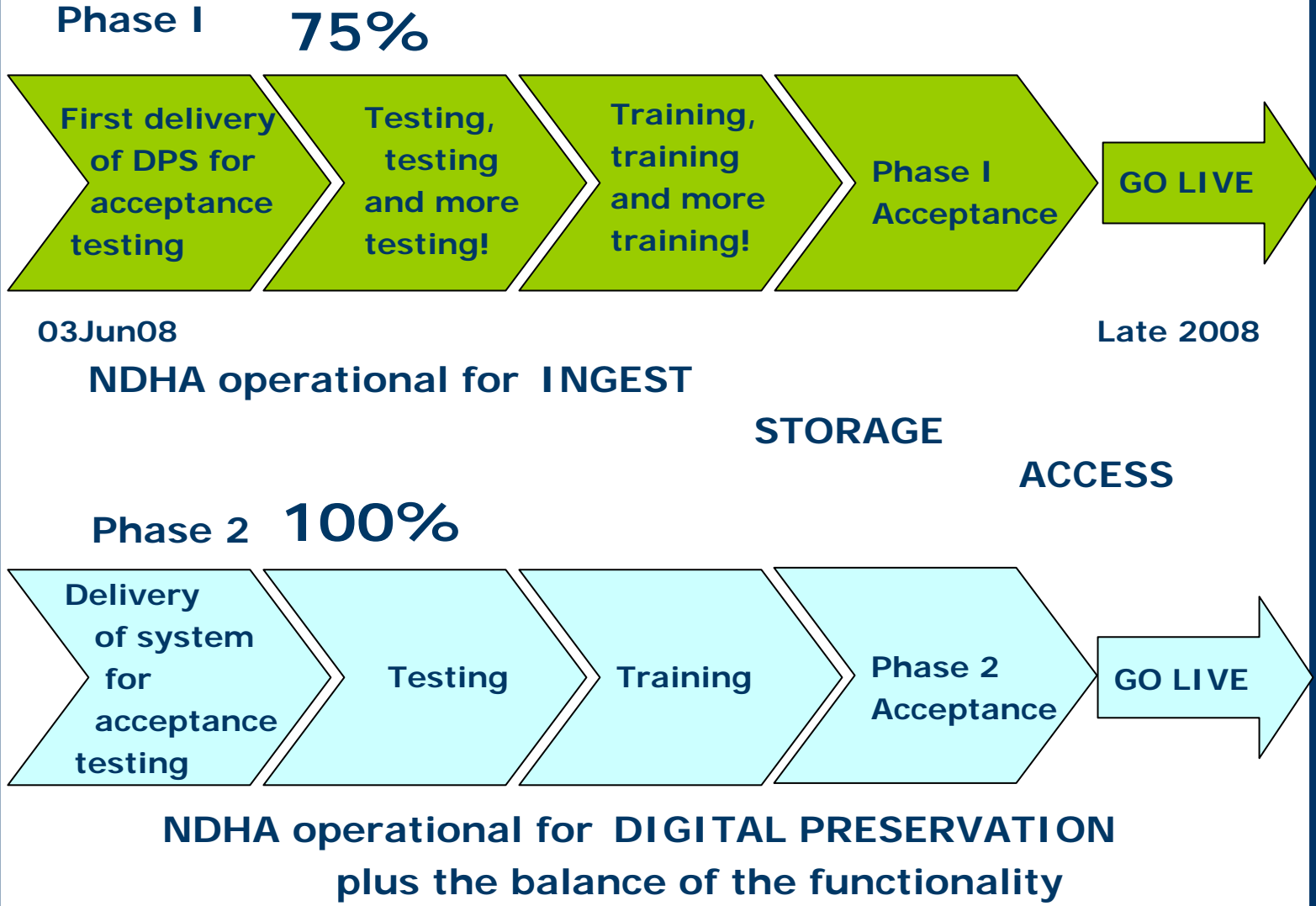
- Digital Preservation System (DPS)
 - generic software solution for the wider market
 - broad ranging digital preservation solution for a range of community interests
- NDHA is the NLNZ implementation of DPS
 - wider functionality and business change are required for practical digital preservation within any given institution

Phased Approach

Roll Out

Phase 1 :
Live Production System

Phase 2 :
Fully Operational



DPS Functionality at Day 1

Phase 1
Specs

**From producer
management →
workflow
automation →
delivery, audit
trails &
reporting**

- User management
- Producer management
- Deposit 1
- Deposit 2
- Validation stack
- Intellectual Entity (IE) data model
- Submission Information Package (SIP) submission
- SIP processing
- Deposit registration
- Technical analyst
- Workbench
- Consolidated appraisal workbench
- DPS transformers
- Deposit Application Programme Interface (API)
- Audit & provenance
- Process management
- User management API
- Permanent repository
- Delivery
- Meditor
- Reports
- Back office configuration

Phase 2 Delivery

Phase 1
Specs

**Preservation
functionality
later**

Mmmmm

- Format Library
- Risk analysis
- Preservation action
- Enhanced set import/export management for preservation actions

- Maintenance and management functions in Staging NOT permanent
- Enhanced configurability

Preservation planning and action are in Phase 2 to allow for extended requirements analysis prior to development

NDHA Programme Update

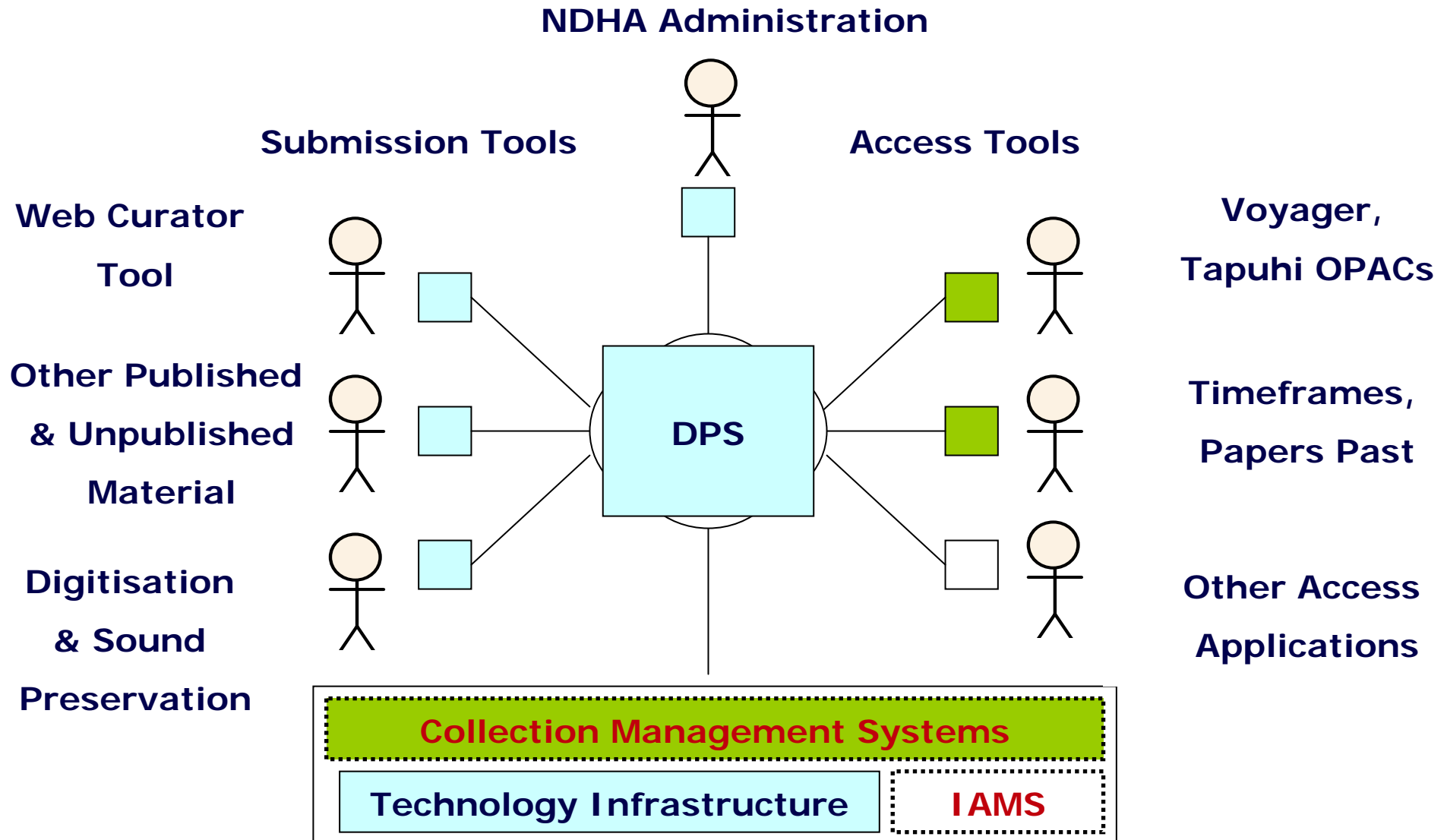
Hardware environment



First non-tertiary
institution, first in
New Zealand

- Permanent archive
 - Sun CIS - 2 units
 - 48 terabyte for production environment
 - 24 terabyte for test environment
- High speed operational storage
 - Sun 9990
 - 18 servers
- Production
 - Sun 4600 servers – 8 units
 - paired for redundancy in 4 tiers (deposit, staging, permanent archive, Oracle RAC)
- Low cost storage
 - Sun X4600 (Thumper) – 3 units

DPS and the NDHA



Integration

Workstream

**It's not all about
the Digital
Preservation
System**

- Deposit applications development
- Existing collection management systems integration
- Browser based content delivery systems development
- Existing resource discovery and delivery systems integration
- Reporting systems
- Common services integration
- Data migration

Integration so far

Milestones

Y
Y
Y
Y
Y

- Staff deposit application
- HTTrack to ARC converter utility
- Archived website migration tools
- OMS data migration tools
- Content aggregator
- Delivery viewers

What is



INDIGO

Forms ...

**Romanic: indicum,
indicus**

Spanish: indico

Portuguese: endego

Dutch: Indigo

NDHA: in dey go

Internal Submission Application

- Submission Information Package (SIP) Creation Tool

Packages up

- Files
- Metadata
- Digital object structure
- Fixity generation (MD5)
- Links to descriptive record
- Links producer records
- Submits SIP to the NDHA

NATIONAL DIGITAL HERITAGE ARCHIVE

Securing the Future

Graham.Coe@natlib.govt.nz

NDHA@natlib.govt.nz

www.natlib.govt.nz/ndha