

Recent developments at the Bodleian Libraries, University of Oxford

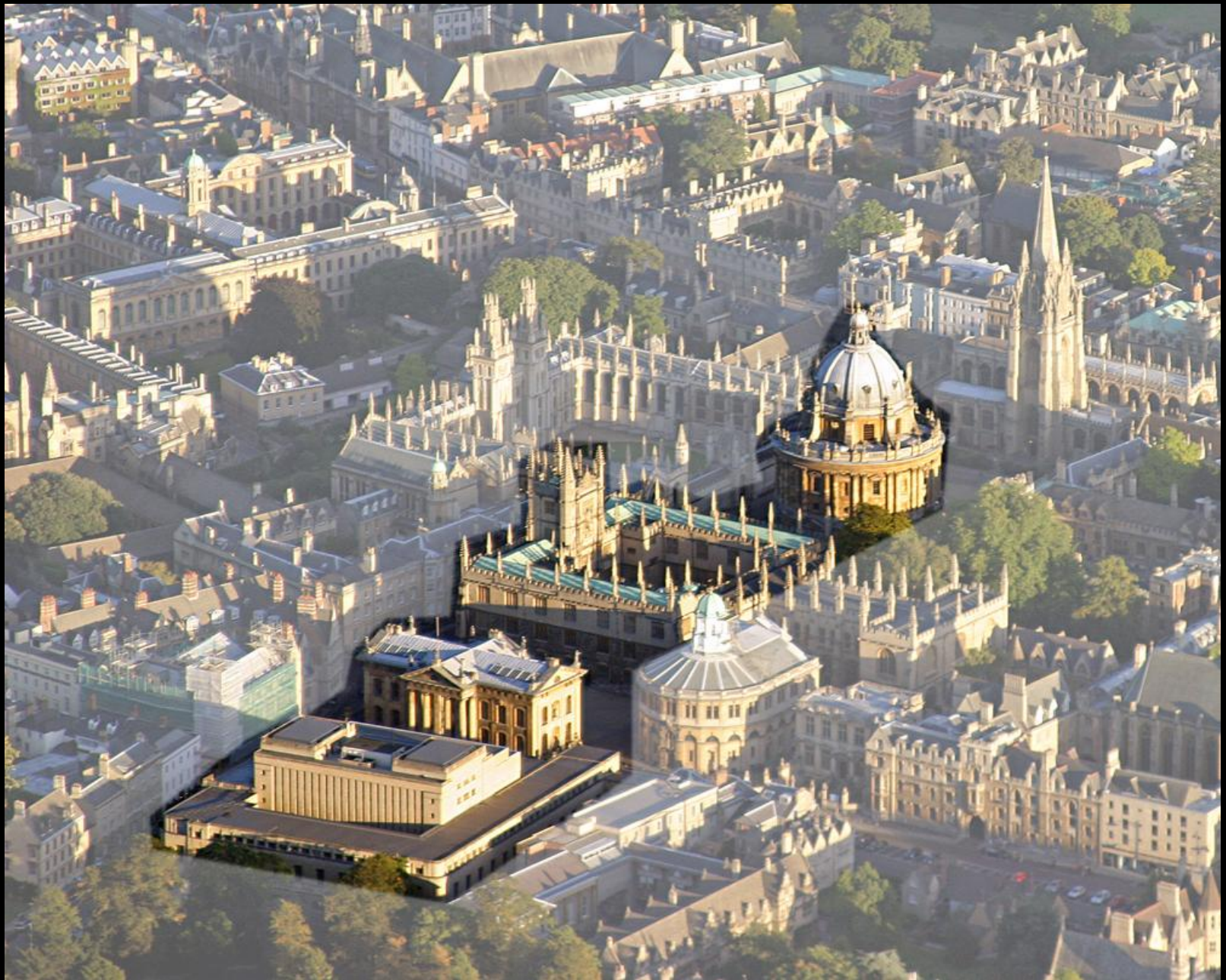
Richard Ovenden: Associate Director
and Keeper of Special Collections



NALIS Sofia, September, 2010

Summary

- Organisational overview of The Bodleian Libraries
- Changes: Buildings
- Changes: IT infrastructure
- Changes: Digitization
- Changes: Funding



Bodleian Libraries: Organisational Background

- Libraries in Oxford University: 100+
- Of which:
 - 40 Bodleian
 - 20+ non-Bodleian departmental libraries
 - 39 college libraries
 - Municipal and private libraries

Bodleian Libraries

- > 580 staff (520 fte)
- 40 libraries
- Budget > £32m
- Collections: 11 million printed items
 - 1.5 million maps
 - .5 million printed music scores
 - Millions of manuscripts and archives
 - 30,000 electronic journals
- 156 miles of shelving, including repository space

Bodleian Libraries: In October 2009

- 80,000 registered readers
- 30,000 had no Oxford connection
- 148,000 readers used our physical spaces
- More than 350,000 searches of our online catalogue were made
- 44,000 printed books were fetched from the Bodleian stacks
- 2,000 manuscripts were consulted from the collections
- 800 files were consulted from the Conservative Party Archives alone

Bodleian Libraries: Collection Highlights

- Western Medieval Manuscripts
- Rare printed books
- Music
- Oriental Collections
- Modern literary and historical archives

Inquit prologus beati ieronimi
presbiteri: in libros machabeorum.

Machabeorum libri duo pingu-
rant presia inter hebreos:
duces gentium; perlaru:
pugna q; sabbatoru: et no-
biles machabei ducis triumpho: et cui
noie et libri huius sunt nuncupati. Hec q;
historia continet etiam indicia illa gesta
machabeoru: scilicet: qui sub antiocho
rege pro sacris legibus dira tormenta
perpessi sunt. Quos mater pia dum
diversis supplicijs urgebat non solu
no fleuit: sed et gaudes hortabat ad
gloria passionis. **Explicit prologus
inquit liber primus machabeorum.**

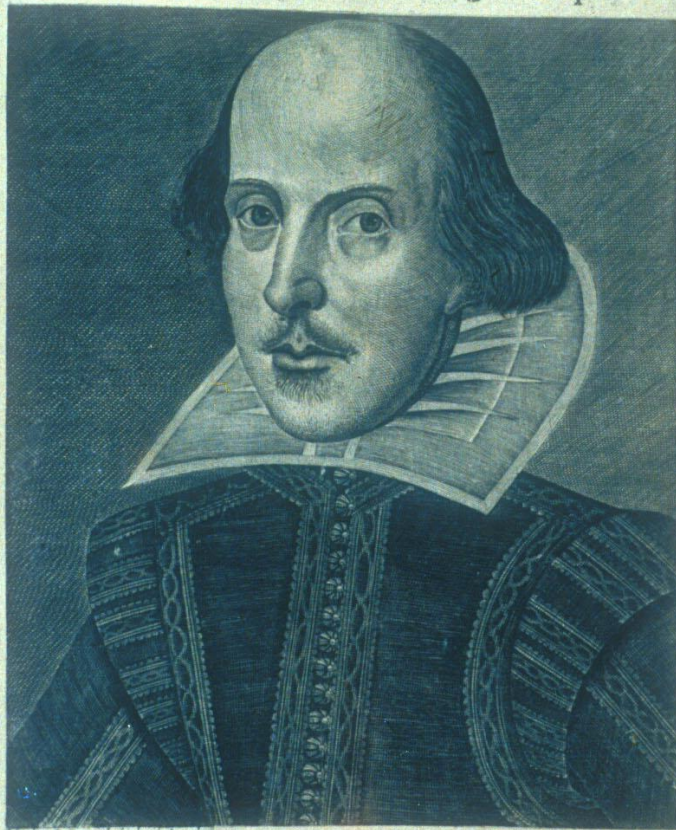
Et factu est postq; per-
cussit alexander phi-
lippi rex macedo qui
primus regnavit i
grecia egressus de ter-
ra cethim dariu regem
perlaru et medor: ostendit presia multa:
et obtinuit omnium munitiones: et in-
terfecit reges terre. Et peralij usq; ad
fines terre: et accepit spolia multitudinis
gentium: et filuit terra in aspectu eius. Et
congregavit virtutes et exercitu fortem ni-
mis: et exaltatu est et elevatu cor ei: et
obtinuit regiones gentium et tirannos
et facti sunt illi in tributum. Et post hec
decidit in lectu: et cognovit quia more-
retur. Et vocavit pueros suos nobiles
qui secum erant nutriti a iuventute sua:
et divisit illis regnum suu cum adhuc
vivere. Et regnavit alexander annis
duodecim: et mortu e. Et obtinuerunt
pueri ei regnu unusquisq; i loco suo:
et imposuerunt omnes sibi diademata
post mortem ei: et filij eor post eos annis
multis: et multiplicata sunt mala i terra.
Et regit et eis radix peccati: antiochus

illustris filius antiochi regis qui fuerat
rome obses: et regnavit in anno cen-
tesimo trigesimo et septimo regni greco-
rum. In diebus illis egerunt et israel filij
iniqui: et suascerunt multis dicentes. Sa-
mus et disponam testamentu cu gen-
tibus que circa nos sunt: quia regno
recessim ab eis invenierunt nos multa
mala. Et bonus visus e sermo i oculis
eoru. Et destinaverunt aliqui de ipso et
abierunt ad regem: et dedit illis prestatu
ut faceret iusticia gentium. Et edificave-
runt gymnasium in iherosolymis secundum
leges nationum: et fecerunt sibi ppicia: et re-
cesserunt a testamento sancto: et iundi sunt
nationibus: et venudari sunt ut faceret
malu. Et paratu e regnu in conspectu
antiochi: et cepit regnare i terra egipti:
ut regnaret super duo regna. Et intravit
in egiptu in multitudine gravi in curri-
bus et elephantis et equis: et copiosa
navium multitudine. Et constituit bellu
adversus ptolomeu regem egipti: et ven-
tus e ptolomeus a facie eius et fugit:
et ceciderunt vulnere multi. Et compre-
hendit civitates munitas in terra egi-
pti: et accepit spolia terre egipti. Et con-
vertit antiochus postq; percussit egiptu
in centesimo et quadragesimo et tercio an-
no et ascendit ad isrl: et ascendit i ihe-
rosolymis i multitudine gravi. Et intravit
in sanctificatione cu superbia: et accepit
altare aureu et candelabru luminis et
universa vasa eius et mensam propiti-
onis et libatoria et alas et mortario
la aurea et velu et coronas et ornamentum
aureum quod in facie templi erat: et
commovit oia. Et accepit argentum et
auru et vasa concupiscibilia: et accepit
thesauros occultos quos invenit: et
sublati omniab abire i terra sua. Et
fecit redire hominu: et locutus est in

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SHAKESPEARES

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HISTORIES, &
TRAGEDIES.

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L O N D O N

Printed by Isaac Iaggard, and Ed. Blount. 1623.

Allegro senza rip.

66

Handwritten musical score on ten staves. The notation includes treble and bass clefs, a key signature of one flat, and a common time signature. The music features various note values, rests, and dynamic markings. The lyrics "joyce rejoyce rejoyce - greatly rejoyce" are written below the bottom staff.

Lyrics: joyce rejoyce rejoyce - greatly rejoyce

Dynamic markings: *pian*, *some*, *Re*

N.B. The right of singing this Song in Music Halls is reserved by the Composer.

MARTHA SWALLOWED A JELLY-FISH!



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DAN. RANDALL.

From a Photo by W. Whelan, 38 Cheapside

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PAISLEY
SEWING COTTON
TRADE MARK



THE CHAIN



GULLIVER AND
THE LILLIPUTIANS



[illegible][illegible]

וְהָיָה כִּי יִשְׁמַע ה' אֶת הַקּוֹל
וְהָיָה כִּי יִשְׁמַע ה' אֶת הַקּוֹל
וְהָיָה כִּי יִשְׁמַע ה' אֶת הַקּוֹל

[illegible]

והענין הזה
הוא שכל
הענין הזה
הוא שכל
הענין הזה
הוא שכל

[illegible]

אם כי עתה ידוע כי אין
אין כי עתה ידוע כי אין
אין כי עתה ידוע כי אין
אין כי עתה ידוע כי אין

"That's that!" said Sam. (What we expected. But I don't like it.)
 Suppose now we are just exactly where he wanted to bring us. Well, let's get
 moving away as quick as we can. The ~~best~~ ^{best} headwinds were in
 last whistle of the wind blowing us out of the harbor. It was pure
 wickedness of mine that. And what with us all seven vessels.
 And we could not have got away so far

So far for say said Sam. This far? Where are we now?
The main range of typical dialects. Express, said Peter
and as they shared

Beyond and ahead there was an enormous
 great notch in the mountain wall a cleft was cut down against it
 So ~~the~~ On their right the wall of rock fell away and round
 ordered till it had no break. Early dawn shadows were before us
 darkness of great snow that was on head of Moughul Dale. Dark in
 depth was the faint glimmer of the great snow that led us to the first pass for the
 On their left sharp jagged pinnacles stood up like towers carved by the
 bity years, and between them were many dark
 and deep clefts. And the clouds

and light:
I don't like the taste of
Natrium Sebum & this
upper part of guard too. O'z
remembers he does would say if
there or no. O'z m. like his gun
fish him — over a something? —

the whole time I have been thinking the poor Swagati was the
best for scheme. But how coming up here will help him
I can't guess. He was now before.



Change: Buildings

- Integrated Estates Plan - aims to modernise facilities and drive operational efficiencies to lower running costs
- Bodleian Depository
 - 8.4m volumes / 20 years growth
 - 3-5,000 new books a week
- New Bodleian
 - Special Collections Research Centre
- Humanities Library on ROQ site
 - 1m volumes for lending
 - Group study / new technology spaces

















Forming the entrance – Proposed Perspective View from Broad Street - West



Ground Floor Public Areas – Perspective View of Proposed Entrance Hall



Reader Access Areas – Perspective View of Proposed General Enquiries



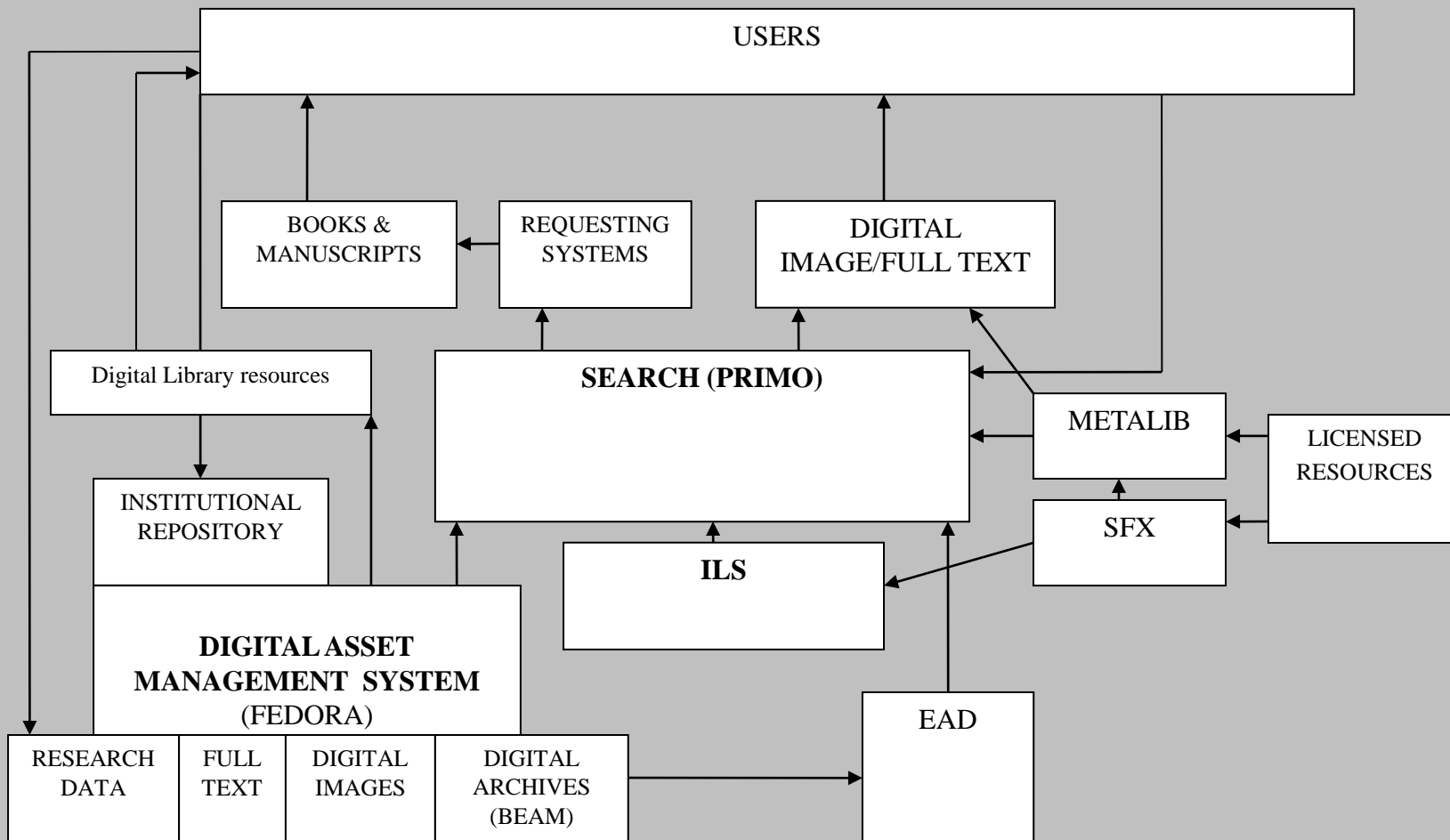
Reader Access Areas – Reading room 3 – Perspective view

Change: IT Infrastructure

- Integrated Library System
- Search technology
- Federation of Catalogues and Search within Oxford
- Individualised acquisition and circulation (through ADMs)
- Discovery layer to unify different data sources
- University level authentication (Shibboleth)

Integrated Library System

- Replacement of a GEAC Advance system with Exlibris's Aleph
- Large database
 - 6.7m records in main database
 - 10m holdings records
 - 3 m records in the 'pool' (UK National bibliography)
 - 8m LC Authority records
- Federated catalogue for about 90 Oxford libraries
- Each with their own ADMs
- PRIMO as the front end
- Integrated with Metalib, SFX, bX
- Funding model



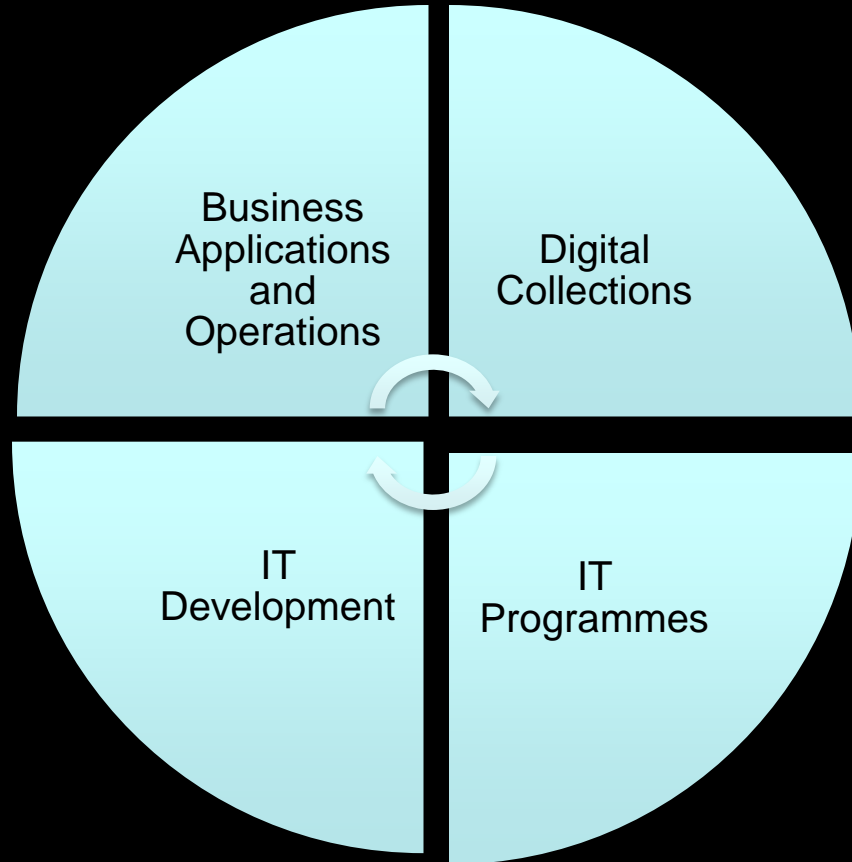
ILS Support Team

Head of Section

Database Applications & Projects Manager (Grade 9)

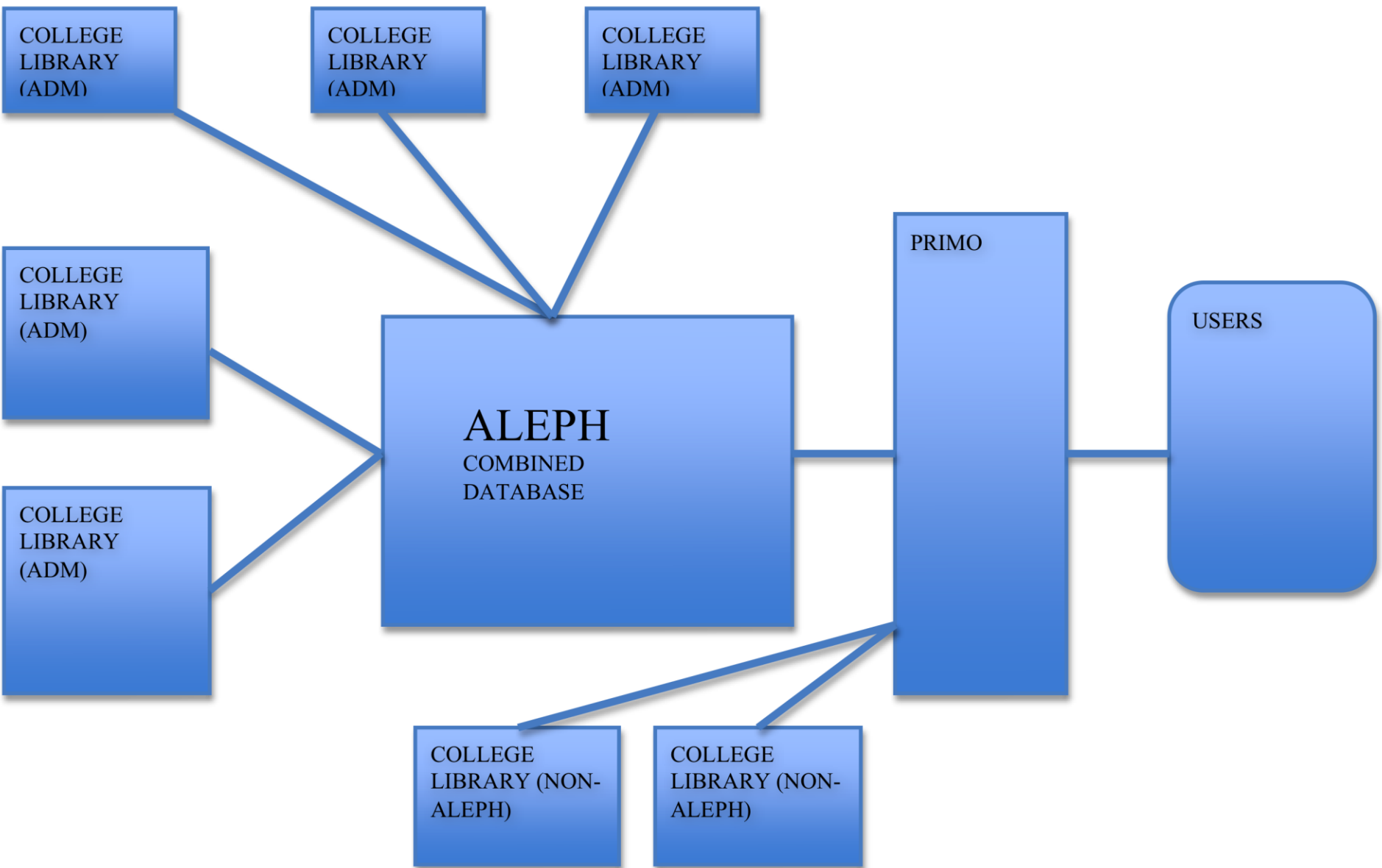
- Database applications team
- Applications programmer and support (Grade 7)
- Applications programmer and support (Grade 7)
- Applications programmer and support (Grade 7)
- System Librarians team
- System Librarian and Trainer (Grade 7)
- Training Assistant (part time) (Grade 3)
- Stock movement support
- Stock movement programmer (Grade 6)
- Inventory control programmer (Grade 6)

Digital Library Systems and Services



Change: Search

- Emphasis on retro-conversion
- Integration of search within existing library collections and resources through PRIMO (SOLO)
- Institutional Repository
- Inward integration within the University (VLE, VRE, subject repositories, Research management systems)
- Outward integration with other discovery systems (Google, WorldCat, Flickr, YouTube)

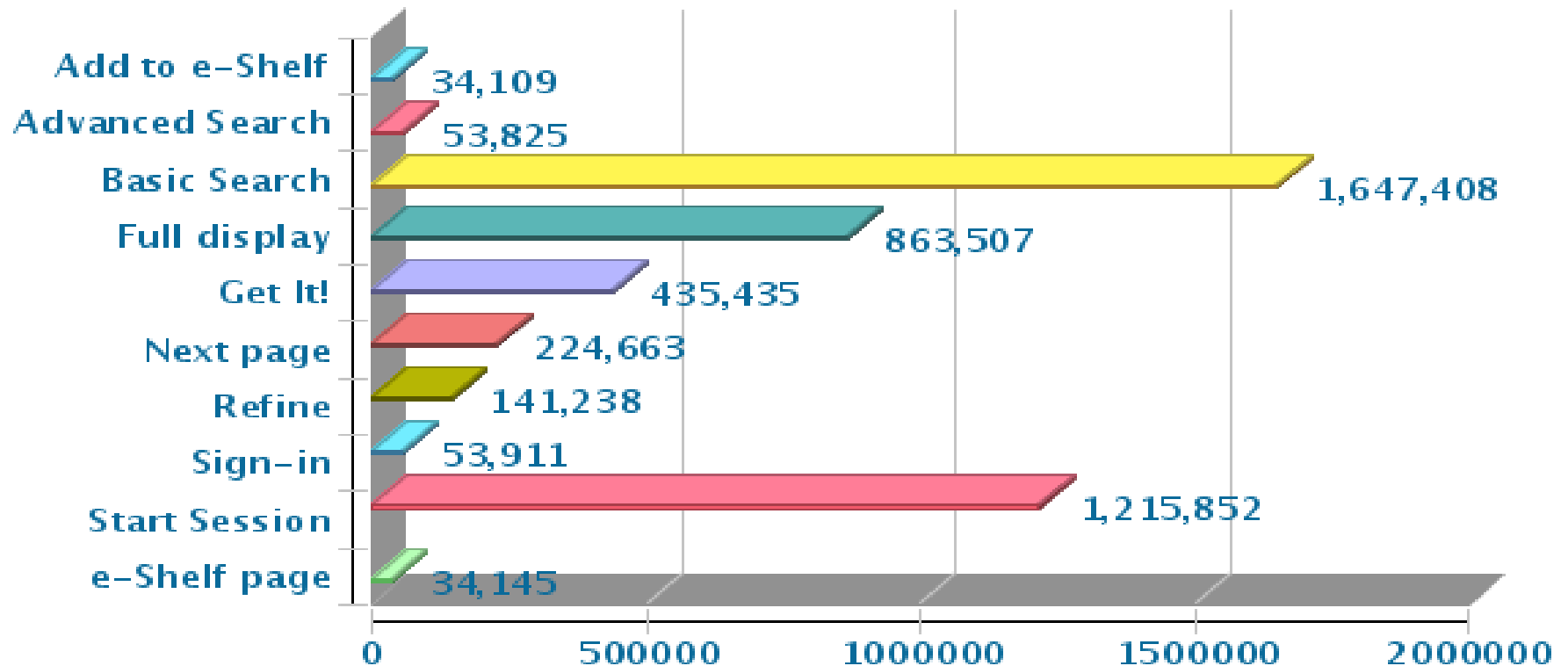


The uniformity of e-resources

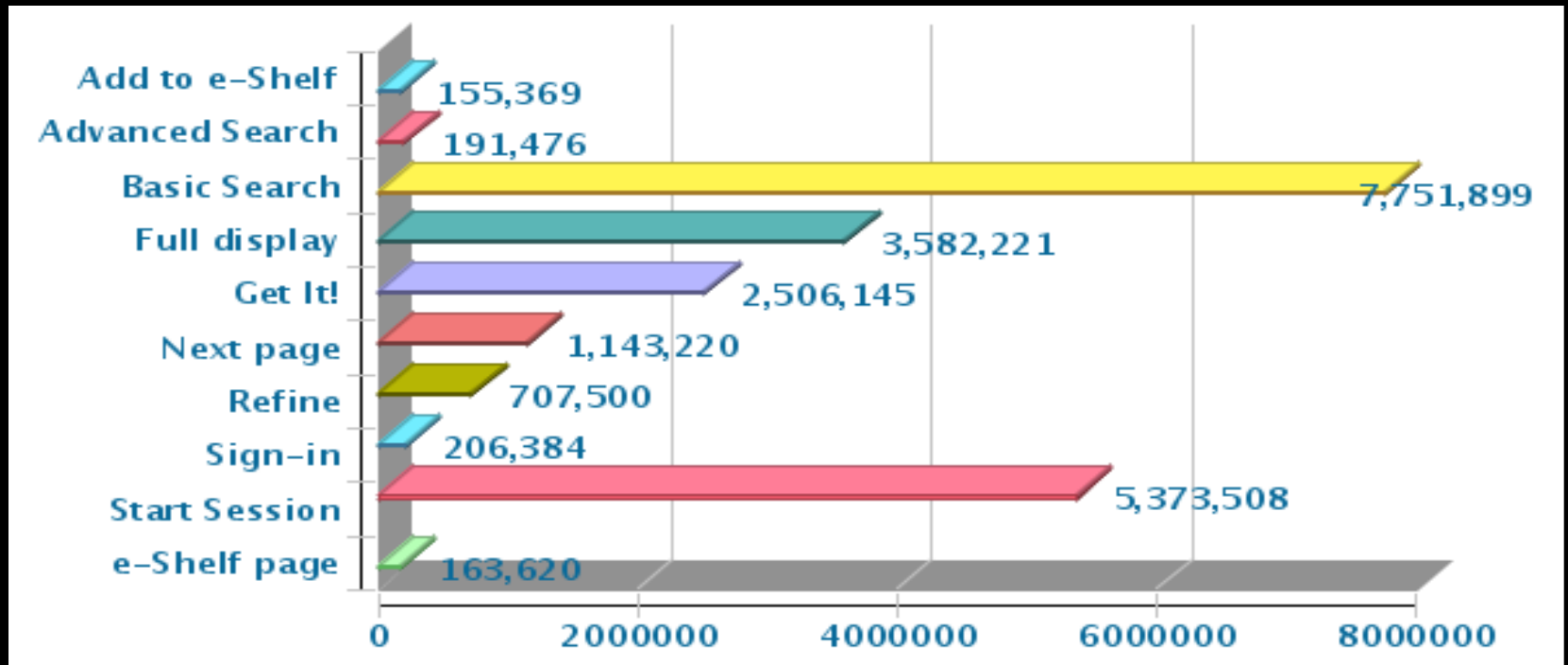
The screenshot shows the Edinburgh University Library website. The header includes navigation links: [Go to: Library](#), [Computing Services](#), [eLearning](#), [Data Library](#), and [Applications Division](#). Below this is a news section with links for [News](#), [A-Z](#), [How to...](#), [Resources](#), [Subjects](#), [Services](#), [Sites](#), [Staff](#), [About](#), [Contacts](#), and [Search](#). The main heading is "Electronic journals (e-journals)". There is a welcome message and a service alert dated 13 August regarding access to e-journals, e-books, and databases. A section titled "Electronic Journals Information:" contains a search box for "Find a Journal by title or ISSN" and a "Browse by Title" section with an alphabetical index (A-Z). The taskbar at the bottom shows the Windows Start button and several open applications including Edinburgh University, Wireless Network Co., and Microsoft PowerPoint.

The screenshot shows the OxLIP+ Find Database website. The header includes navigation links: [Find Database](#), [CrossSearch](#), and [My Research](#). Below this is a search interface with tabs for "Title", "Subject", and "Other options". A search box is present with a "GO" button. There are also radio buttons for "Starts with", "Contains", and "Exact", and checkboxes for "Show all" and "Show unrestricted". On the right side, there are two boxes: "Service updates" with a date of 3rd November and "Welcome to OxLIP+" with a description of the platform. The taskbar at the bottom shows the Windows Start button and several open applications including Metalib, Find Data, and Wireless Network Co.

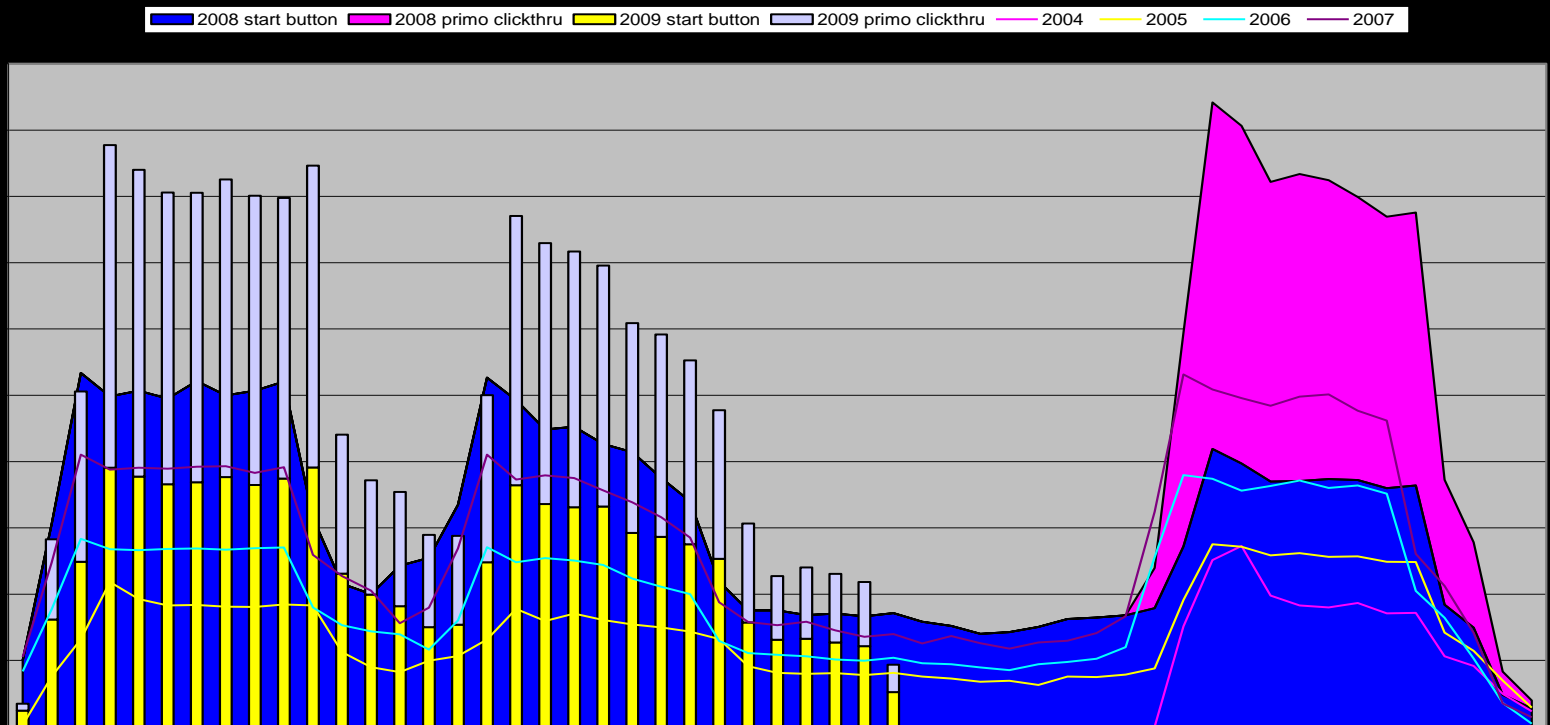
PRIMO SEARCHES: the Google effect!



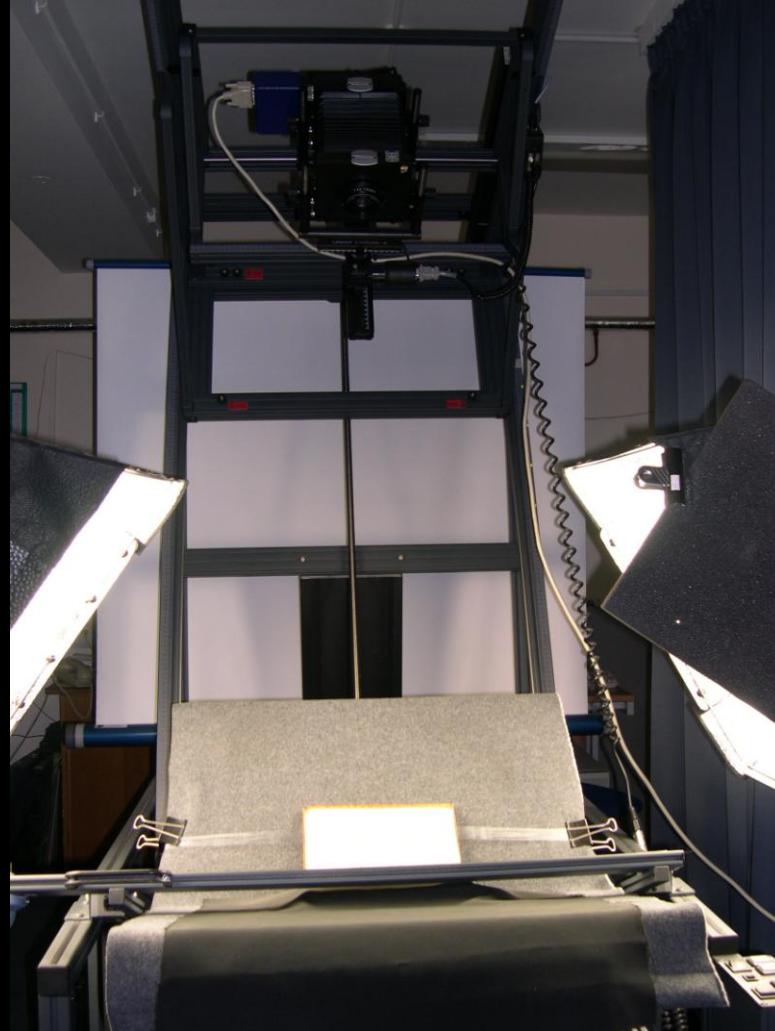
PRIMO searches: the last two years



OPAC vs PRIMO



CHANGE: DIGITIZATION



Digitization

- Early experiment: Ballads Database
- High res imaging: Early Manuscripts at Oxford
- Mellon Foundation support to increase the range of digital collections
- Partnership with Google from 2004
- Now over 150 million pages scanned
- Circa 1 million images
- Text encoding work: 35,000 works (4m pages) encoded in joint project with University of Michigan

Early Manuscripts at Oxford University

[Using this site](#)

[About the website](#)

[About the Imaging Project](#)

list manuscripts by collection:

- [Balliol College](#)
- [Bodleian Library](#)
- [Corpus Christi College](#)
- [Jesus College](#)
- [Magdalen College](#)
- [Merton College](#)
- [St. John's College](#)

[list all manuscripts](#)

Early Manuscripts at Oxford University

Digital facsimiles of complete manuscripts, scanned directly from the



This site provides access to over 80 early manuscripts now in institutions associated with [Oxford](#). Please read the information about [using this website](#).

Between 1995 and 2000 the Early Manuscripts [Imaging Project](#) created high resolution digital facsimiles of manuscripts which were selected as major treasures from their respective [libraries](#), to ensure their availability for originals which may otherwise be too fragile for handling.

In 2001 interim responsibility was taken up by the Libraries Automation Service's R&D team, who have undertaken a [complete redesign of the site](#) to improve the service. The site is now in the [Digital Library](#), to whom enquiries should be addressed.

Please note: We are aware that a number of manuscripts are incomplete. Unfortunately, some images only came to light after the project had completed (during the redesign of the site). We are currently in the process of identifying the resources needed to complete the scanning of these manuscripts. The incomplete manuscripts are still accessible from this site, on the principle that a near-complete manuscript is better than none at all.

We realise that this situation can be frustrating but currently have no further information to make the missing images available.



Bodleian Library
University of Oxford

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Bodleian Library Broadside Ballads

The *allegro* Catalogue of Ballads



The Bodleian Library has unparalleled holdings of over 30,000 ballads in several major collections. The original printed materials range from the 16th- to the 20th-Century. The Broadside Ballads project makes the digitised copies of the sheets and ballads available to the research community.

Bodleian Library, University of Oxford

© Bodleian Library 1999 - Last updated 27 Sep 1999 / TSL

Ballads Catalogue: Harding B 17(230a)

**Oxford City.**

Printed by T. BIRT, 10, Great St. Andrew-Street
wholesale and retail, Seven Dials, London.
Country Orders punctually attended to.
Every description of Printing on reasonable terms.
Children's Books, Battle-dores, Pictures, &c.

IT'S of a fair maid in Oxford city,
Now the truth to you I'll tell,
She by a servant man was courted,
He oft times said he loved her well.

She loved him too, but at a distance,
He did not seem to be very fond,
He said, my dear, I'm sure you slight me,
I know you love another man.

If not my dear, why can't we marry,
That at once would end the strife,
I'd work for you both late and early,
If you'll be my sweet wedded wife.

She said, my dear, we're too young to marry
Too young to climb the marriage bed,
For when married we are bound for ever,
My dear, and all our joys are fled.

He said my dear you've another sweetheart,
And in his company you take delight,
But for your fondness you inconstant fair one,
I soon will end your tender life.

June 24, 17

The O X O N I A N.

SCAP'D from where *Oxford's* gloomly Structures rise,
In frequent Spires and darken all the Skies,
Where learned Dulness spreads her leaden Reign,
And pours her drowly Influence through the Brain,
Behold me here, with your's prepar'd to join
My warmest Vows, at Pleasure's festive Shrine;
No more a formal Sage, whose Head profound,
Huge Curls immense, high tow'ring Round on Round,
Voluminous protect, with Brow severe,
Grates Latin Lectures on my wounded Ear;
Or silent frowns Rebuke with gloomy Stare,
Or grumbles Anger like a German Bear.
No musty Ancients now my Brains engage,
With Dust and Morals clogg'd through every Page,
Nor are my Ears with *plus* and *minus* rung,
And Greek no longer rumbles from my Tongue;
Plato and *Aristotle* cloths shall eat,
And *Seneca* and *Tully* aid the Treat;
Dull Learning with our Gowns aside we've laid,
Or if we use them 'tis in Masquerade—
Yet think not, torpify'd with College Air,
That Books and Pedantry are all our Care,
Though dull'd by Greek and Gloom, the Soul can prove
The mighty Force of all-subduing Love:

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Lost by his father, with all bands of Law
 To our most valiant brother, so much for him:
 Now for our selfe, and for this time of meeting:
 Thus much the businesse is, we have here writ
 To Norway Vncle of young Fortinbraffe
 Who importent and bedredde fearfully heares
 Of this his Nephewes purpose to suppress
 His further gaine hereby, in that the levies
 The lifts, and full proportions are all made
 Out of his subiect, and we here dispatch
 You good Corneelius, and you Valtemand,
 For bearers of this greeting to old Norway,
 Giving to you no further personall power
 To businesse with the King, more then the scope
 Of these delated Articles allow:
 Farewell, and let your hast commend your dutie.
Cor. Ps. In that, and all things will we shew our duty.
King. We doubt it nothing, hartly farewell.
 And now Laertes, what the newes with you?
 You told vs of some ture, what list Laertes
 You cannot speake of reason to the Dane
 And lose your voice; what wouldst thou beg Laertes
 That shall not be my offer, not thy asking.
 The head is not more native to the heart,
 The hand more instrumentall to the mouth,
 Then is the throne of Denmark to thy father.
 What wouldst thou have Laertes?
Lat. My dread Lord, I have bene studying
 Your leave and fauour to retorne to France,
 From whence though willingly I came to Denmark,
 To shew my dutie in your Coronation;
 Yet now I must confesse, that dutie done,
 My thoughts and wishes bend againe toward France,
 And bow them to your gracious leave and pardon.
King. Haue you your fathers leave, what saies Polonius?
Pol. He hath my Lord, wrung from me my flow leave
 By laboure some petition, and at last
 Vpon his will I seeld my hard consent.

I doe beseech you giue him leave to goe.
King. Take thy faire houre Laertes, time be thine;
 And thy best graces spend it at thy will:
 But now my Cousin Hamlet, and my sonne.
Ham. A little more then kin, and lesse then kind.
King. How is it that the clouds still hang on you?
Ham. Not so much my Lord, I am too much in the sonne.
Queen. Good Hamlet cast thy nighted colour off
 And let thine eye looke like a friend on Denmark;
 Doe not for euer with thy veiled lids,
 Seeke for thy noble father in the dust.
 Thou know'lt tis common all that liues must die,
 Passing through nature to eternitie.
Ham. I Madam, it is common.
Queen. If it be,
 Why seemes it so perticuler with thee.
Ham. Seemes Madam, nay it is, I know not seemes,
 Tis not alone my inkie cloke could smother,
 Nor customeate Sutes of solemne blacke,
 Nor windie suspiration of fort breath,
 No, nor the fruitfull Riuer in the cie,
 Nor the delected hauiour of the visage,
 Together with all formes, moods, shapes of griefe,
 That can deuoure me truly, these indeed seeme,
 For they are actions that a man might play,
 But I haue that within which passes shew,
 These but the trappings and the suites of woe.
King. This sweet and commendable in your nature Hamlet,
 To giue these mourning duties to your father,
 But you must know your father lost a father,
 That father lost, lost his, and the further bound
 In fulliall obligation for some tearme
 To doe obsequious forrowes, but to perseuer
 In obstinate condelement, is a course
 Of impious stubbornnesse, tis vmanly griefe,
 It shewes a will most incorrect to Heauen,
 A heart vnfortified, or minde impatient,
 A vnderstanding simple and vncheold,

The Tragedie of Hamlet

Importing the surrender of those Lands Lost by his father, with all bands of Law To our most valiant brother, so much for him: Now for our selfe, and for this time of meeting, Thus much the businesse is, we haue here writ To Norway Vncle of young Fortenbrasse Who impotent and bedred scarcely heares Of this his Nephewes purpose; to suppress His further gate herein, in that the leuies, The lifts, and full proportions are all made Out of his subiect, and we here dispatch You good Cornelius, and you Valtemand, For bearers of this greeting to old Norway Giuing to you no further personall power To businesse with the King, more then the scope Of these delated Articles allow: Farewell, and let your hast commend your dutie.

Cor. Vo. In that, and all things will we shew our duty.

King. We doubt it nothing, hartily farewell. And now Laertes whats the newes with you? You told vs of some sute, what ist Laertes? You cannot speake of reason to the Dane And lose your voice; what would'st thou beg Laertes? That shall not be my offer, not thy asking, The head is not more natiue to the heart The hand more instrumentall to the mouth Then is the throne of *Denmarke* to thy father, What would'st thou haue Laertes?

Prince of Denmarke.

I doe beseech you giue him leaue to goe.

King. Take thy faire houre Laertes, time be thine, And thy best graces spend it at thy will: But now my Cousin Hamlet, and my sonne.

Ham. A little more then kin, and lesse then kind.

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Ham. Not so much my Lord, I am too much in the sonne.

Queene. Good Hamlet cast thy nighted colour off And let thine eie looke like a friend on *Denmarke*, Doe not for euer with thy vailed lids, Seeke for thy noble father in the dust, Thou know'st tis common all that liues must die, Passing through nature to eternitie.

Ham. I Madam, it is common.

Quee. If it be, Why seemes it so perticuler with thee.

Ham. Seemes Madam, nay it is, I knownot seemes, Tis not alone my inkie cloke could smother, Nor customarie Sutes of solemne blacke, Nor windie suspiration of forst breath, No, nor the fruitfull Riuer in the eie, Nor the deieted hauiour of the visage, Together with all formes, moods, shapes of grieffe That can deuoute me truly, these indeed seeme, For they are actions that a man might play, But I haue that within which passes shew. These but the



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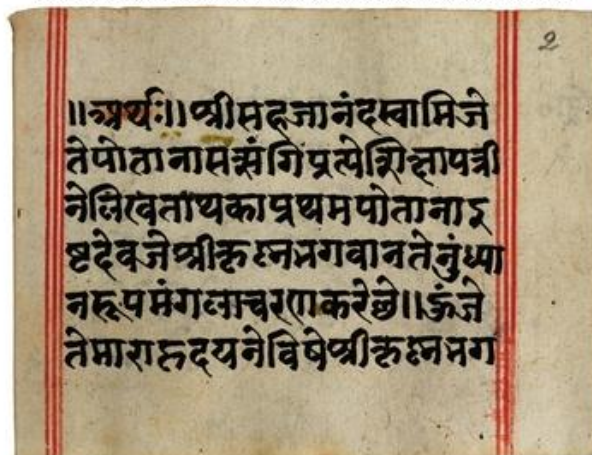
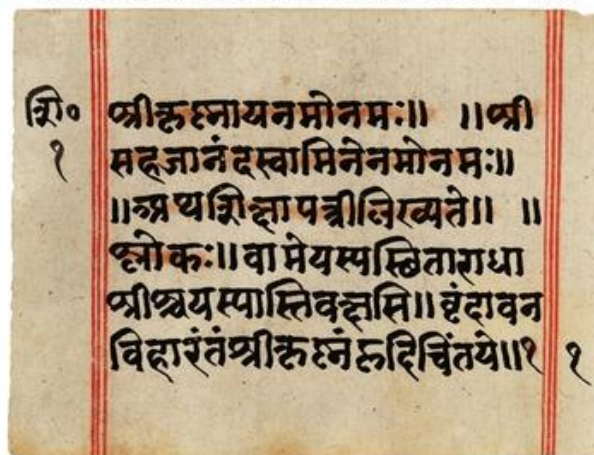
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Go to: Verse 1

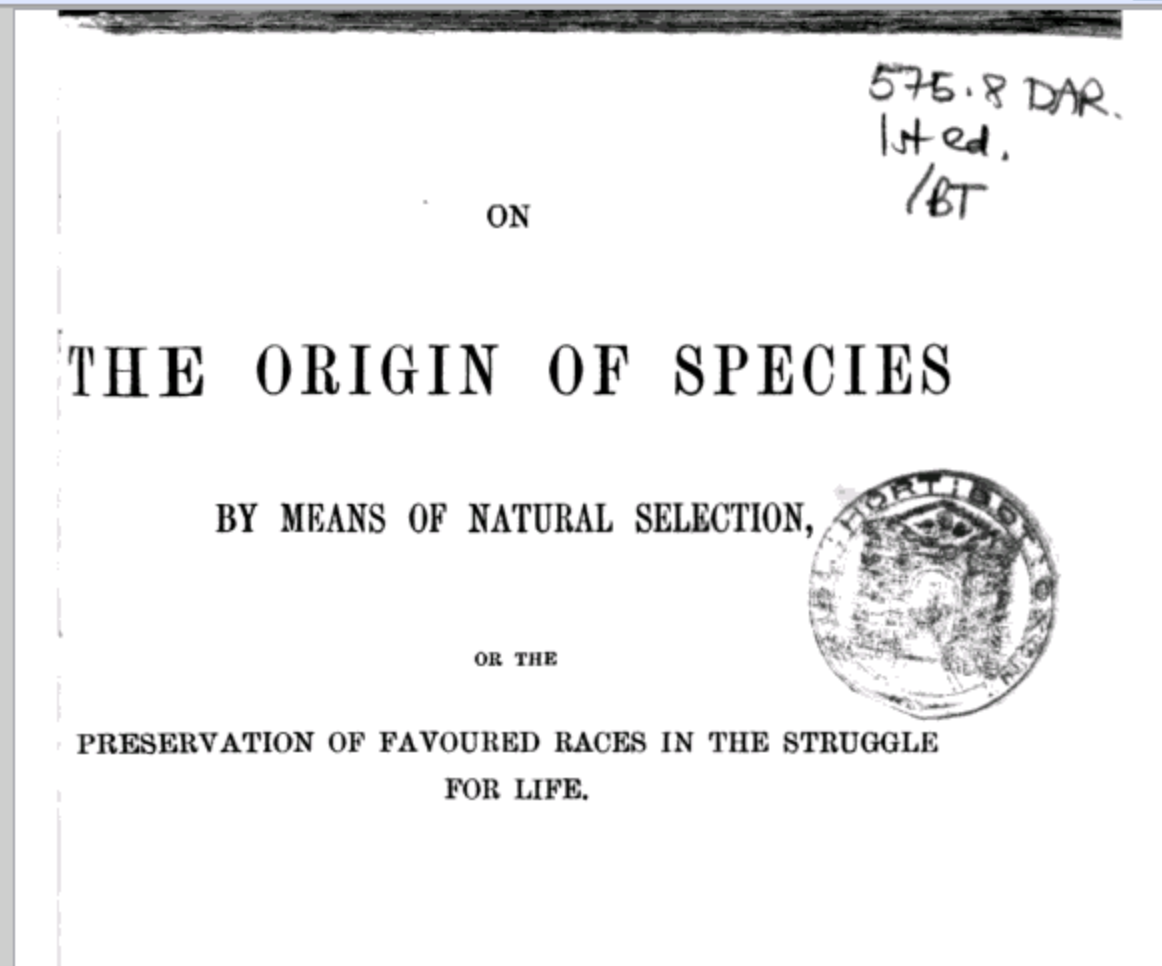
← Shikshapatri text & artha by Nityanandamuni (folio 1 verso)

Shikshapatri text & artha by Nityanandamuni (folio 2 recto) →



Verse 1

(SAHAJĀNAND SWĀMI) meditate in My heart upon Lord Shri Krishna, on whose left stands Rādhā, on whose bosom resides Laxmiji and who plays (with His Bhaktas) in Vrindāvan.



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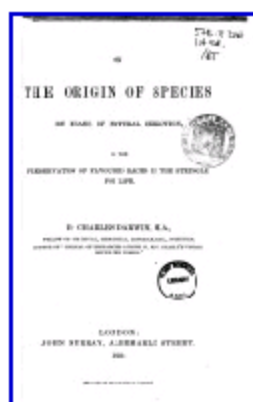
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On the origin of the species by means of natural selection, or, The ... By Cha



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More details

On the origin of the species by means of natural selection, or, The preservation of favoured races in the struggle for life

By Charles Darwin, John Murray

Contributor John Murray

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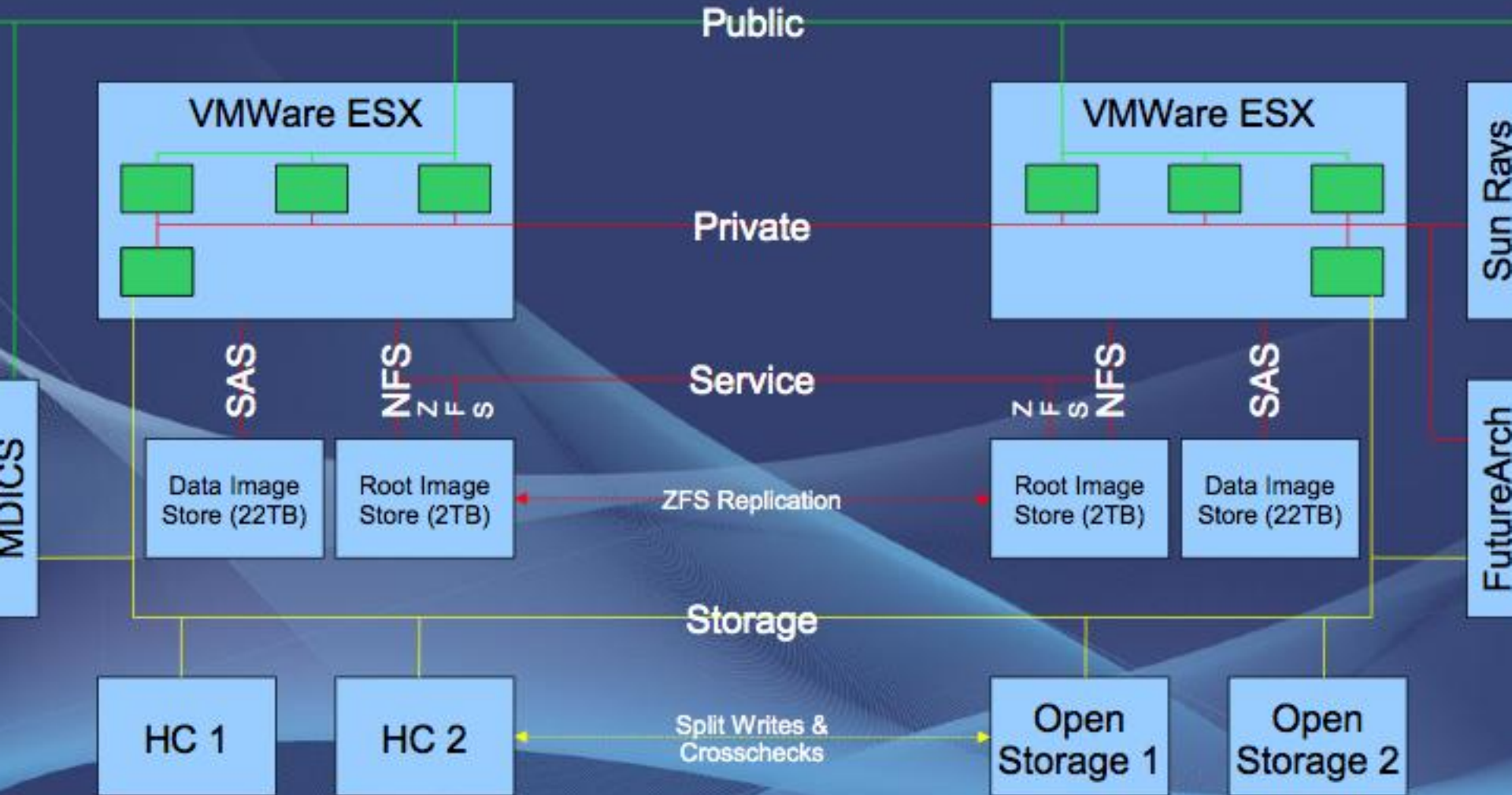
Selected pages



Digital Infrastructure

- Key component of digital collections strategy
- As investment in digital collections grows, expenditure on preserving digital must rise
- Reference to accepted open standards: OAIS, METS, XML
- Digital Asset Management System (DAMS)
 - Built on FEDORA digital library
 - Sun Honeycomb storage technology
 - Different application layers built on top
 - Institutional repository; Images; Research data
 - Automated processing wherever possible
- BEAM (Bodleian Electronic Archives and Manuscripts)
 - A DAMS layer, designed to preserve the digital equivalents of personal archives (email, blogs, webpages, etc)

DAMS (Hardware)



DAMS (Logical)





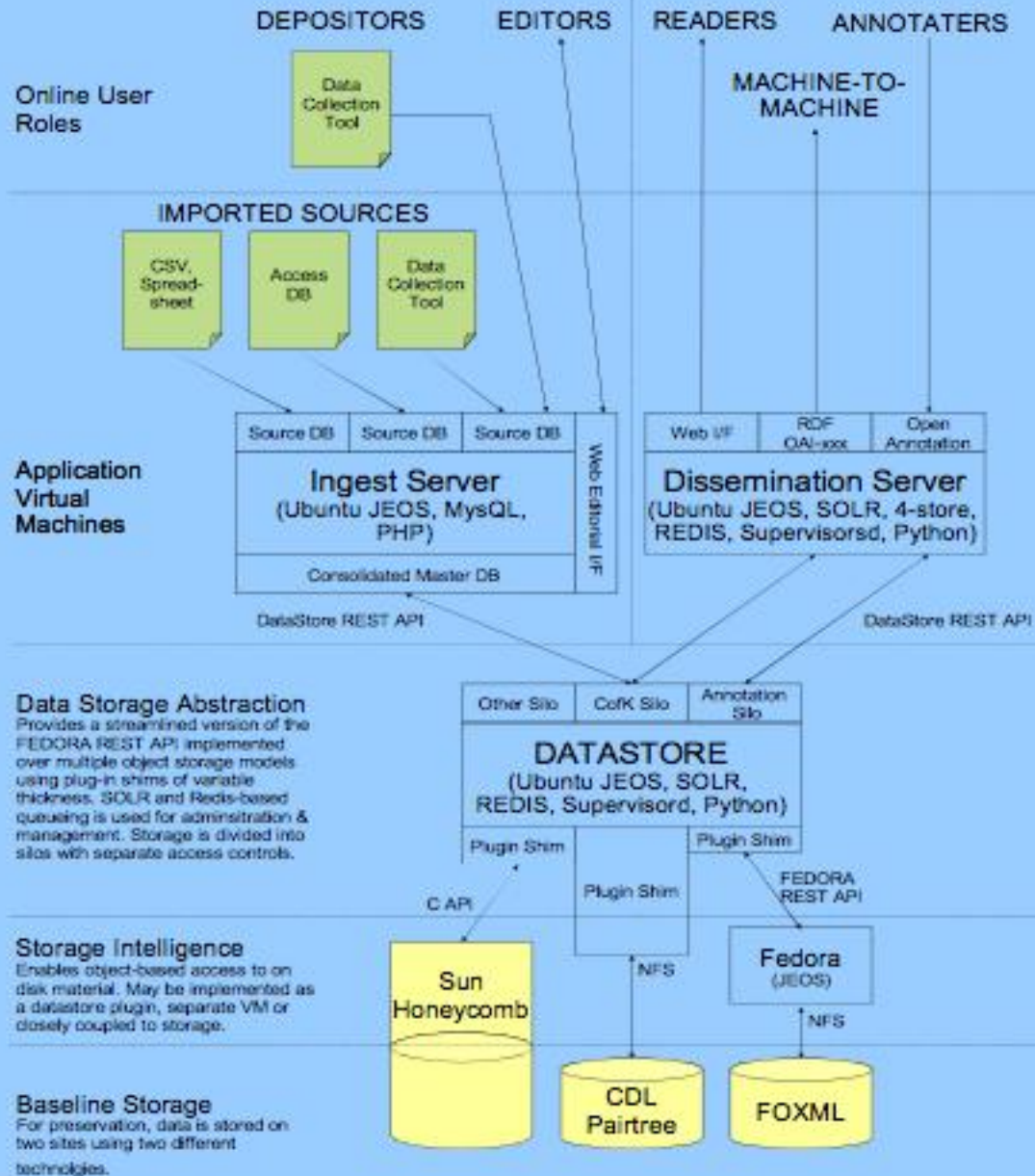
Sample DAMS Application

Data Ingest

Existing data sources are imported into individual databases for clean-up, then merged into a Master database for deduplication. New data is entered through the standalone collection tool which can upload via the web. The Master database is used to populate the RDF datastore with "publication-ready" data.

Dissemination

Provides access to objects (letters, people, places, etc.) via faceted search, browse etc.. Annotation and augmentation by authorised users is stored separately and displayed concurrently. Add content is machine-readable through RDF or OSI-PMH/ORE harvest.



Personal digital collections: new phenomenon, new problem

- Bodleian a major repository of private papers
 - Politics: 6 British Prime Ministers, etc
 - Literature: Tolkien, Kafka, C S Lewis etc
 - Intellectuals: Isaiah Berlin, Bruce Chatwin etc
 - Organisations: Conservative Party, Anti-Apartheid Movement etc
- Rapid growth in personal media capture: depth and breadth:
 - Digital images, video, sound, personal digitization
 - Standard 'Office' materials: email, word processed files, spreadsheets
 - Communication media: webpages, blogs



Acquisition from older media

- Equipment, software and documentation
 - Acquire, store and maintain
- Slow, specialist, but small-ish quantities
- Draw on enthusiast expertise
- Develop and document processes
- Processes obliterate metadata





From manual to automated (mass) extraction

- Modern offline media in archival collections - more of it.
- **Currently:** imaged disk by disk
- **Post futureArch:**
 - En masse forensic imaging
 - Error logs
 - Hashing
 - Analysis of disks
 - Operates unattended



Up to 100 discs at once



Up to 150 diskettes at once



Changes: Funding

- 75% of the Bodleian funds come from the University.
- University's funding from the State is under pressure
- Bodleian increasingly dependent on its own income:
 - Shop and merchandise
 - Tours, filming etc
 - Digital collections (licensing)
 - Fundraising through philanthropy and research grants
- 2010-12 funds cut by 10%



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