

The European Library Content Strategy Workshop

The Hague, 23-02-2012

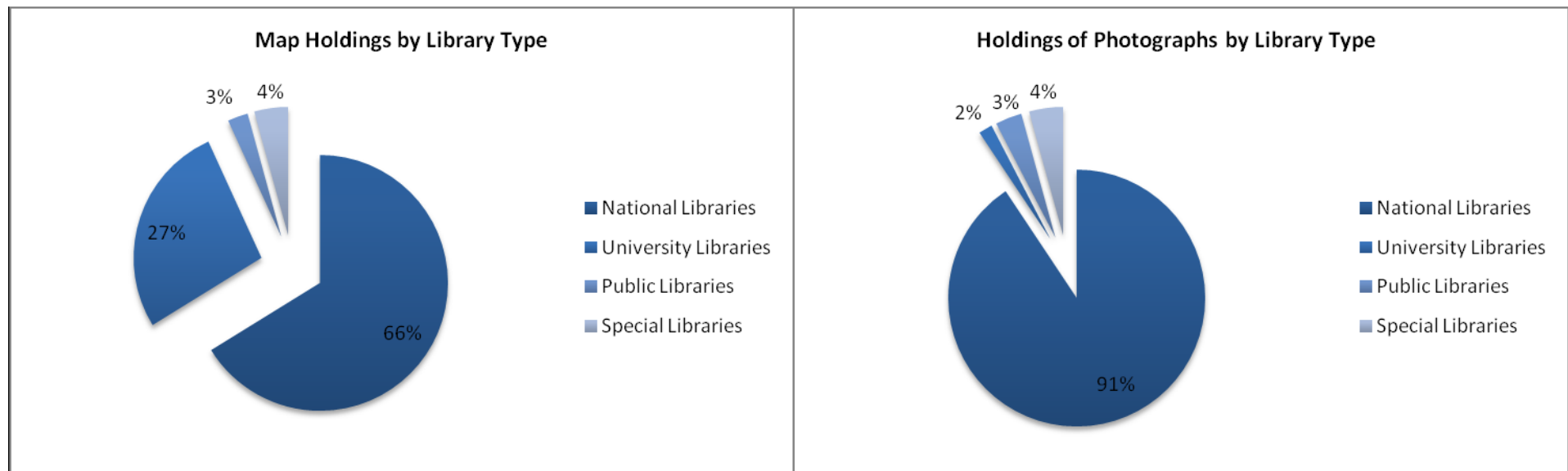
What digital content is available?

Holdings of European libraries

From: *The Cost of Digitising Europe's Cultural Heritage* (2011)

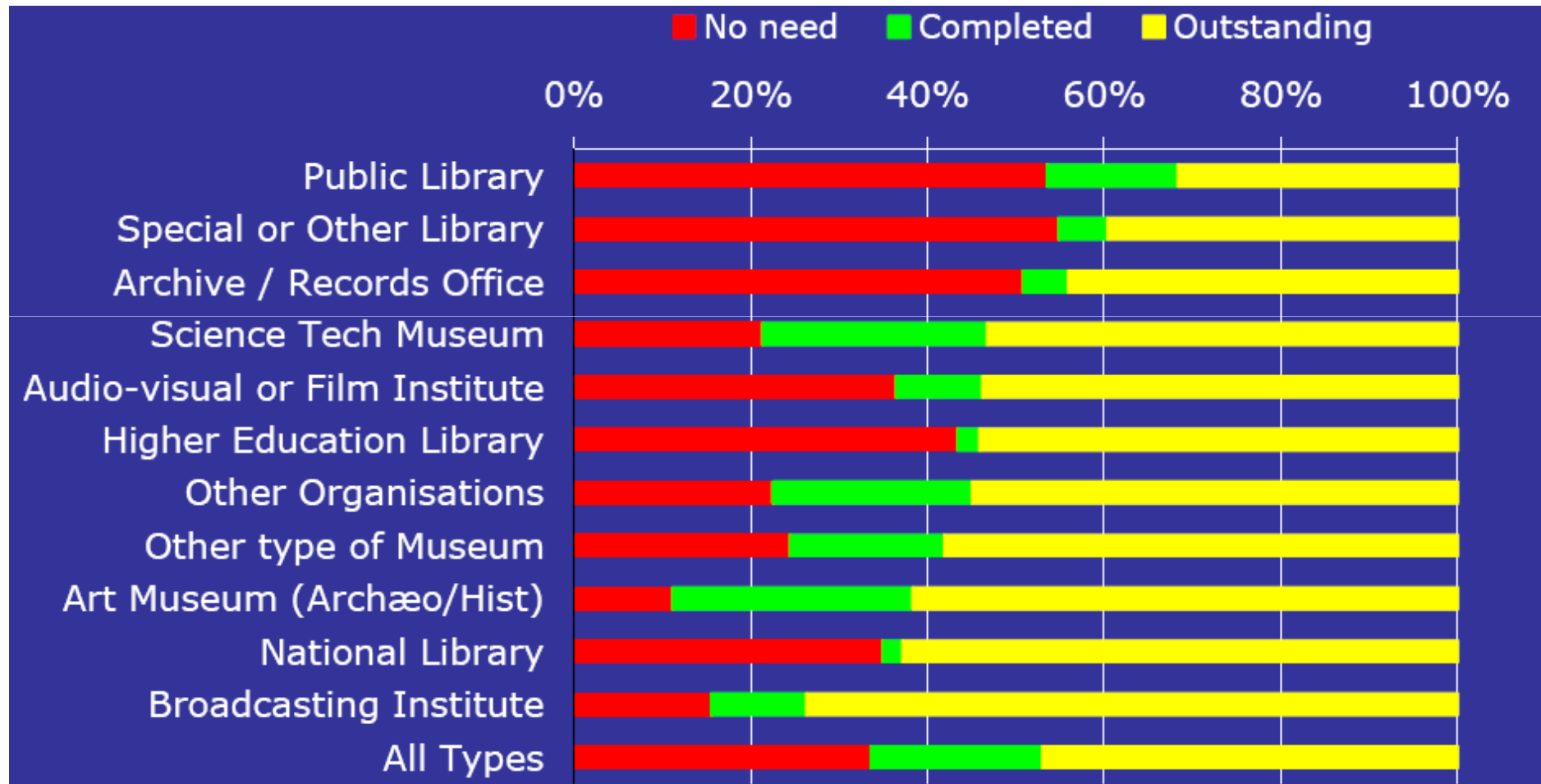
IFLA estimates in 2000⁷, for example, put the total holdings of European Libraries at approximately 16bn items (see table below), including 5.64bn books, at an estimated 1.41 trillion pages.

| Media | Quantity (estimated) |
|---------------|---|
| Books | 5.64 billion books, 1.41 trillion pages |
| Microform | 0.02 billion units |
| AV | Up to 6.54 billion units |
| Other | Up to 3.69 billion units |
| TOTALS | 15.89 billion units (+/- 15%) |



From: Numeric Study Report (2009)

How much has been digitised?



From: Numeric Study Report

How much has been digitised?

Table 15 Progress made towards the digitisation of collections

| Type of institution: | Part of collection digitised % | 'Order book' | | Equivalent backlog [3]/[2] |
|-----------------------------|-----------------------------------|----------------|------------------|-------------------------------|
| | | Completed % | Outstanding % | |
| | [1] | [2] | [3] | [4] |
| Archives | 5.1 | 10.3 | 89.7 | 8.7 |
| A-V or film institutes | 9.8 | 15.4 | 84.6 | 5.5 |
| Broadcasting institutes | 10.8 | 12.8 | 87.2 | 6.8 |
| Art/archæo museums | 27.2 | 30.6 | 69.4 | 2.3 |
| Science and tech museums | 25.5 | 32.4 | 67.6 | 2.1 |
| Other museums | 17.5 | 23.1 | 76.9 | 3.3 |
| National libraries | 2.3 | 3.5 | 96.5 | 27.6 |
| Higher education libraries | 2.5 | 4.4 | 95.6 | 21.9 |
| Public libraries | 14.8 | 31.9 | 68.1 | 2.1 |
| Special or other libraries | 5.5 | 12.2 | 87.8 | 7.2 |
| Other types of organisation | 22.5 | 29.0 | 71.0 | 2.4 |

average 13%

From: *The Cost of Digitising Europe's Cultural Heritage* (2011)

| Description | Value | Units |
|--|--------|----------------|
| National Libraries in the Council of Europe | 45 | Sites |
| National Library service points | 178 | Service Points |
| Public Libraries | 205336 | Sites |
| HE/University Libraries | 10161 | Sites |
| School Libraries | 164436 | Sites |
| Special Libraries | 29089 | Sites |
| Google books estimated number of individual titles | 130 | Million titles |
| Lower estimate of titles currently in EU libraries | 59 | Million titles |
| Upper estimate of titles currently in EU libraries | 95 | Million titles |
| Mean estimate of titles currently in EU libraries | 77 | Million titles |
| Lower estimate of pages | 1.47 | Billion pages |
| Upper estimate of pages | 2.36 | Billion pages |
| Mean estimate of pages | 1.93 | Billion pages |
| Mean total cost for BOOK digitisation (in-house) | 11.76 | €bn |
| Mean total cost for BOOK digitisation (outsourced) | 7.08 | €bn |
| Mean total cost for BOOK digitisation (PPP) | 4.79 | €bn |
| Estimated number of RARE BOOKS | 6.9 | Million books |
| Estimated (mean) cost of RARE BOOK digitisation | 8.62 | €bn |
| Estimated (mean) cost of ARCHIVAL digitisation in libraries | 2.45 | €bn |
| Estimated pages of newspaper (based on 20m per MS) | 540 | Million pages |
| Estimated (mean) cost of NEWSPAPER digitisation in libraries | 0.68 | €bn |
| Estimated number of MAPS in library collections | 7.23 | Million maps |
| Estimated (mean) cost of MAP digitisation in libraries | 61.03 | €m |
| Estimated number of PHOTOGRAPHS in library collections | 8.64 | Million photos |
| Estimated (mean) cost of PHOTO digitisation in libraries | 17.62 | €m |

TOTALS:

| | | |
|--|-------|-----|
| Estimated total cost of digitisation in LIBRARIES (in-house) | 23.67 | €bn |
| Estimated total cost of digitisation in LIBRARIES (outsourced) | 18.95 | €bn |
| Estimated total cost of digitisation in LIBRARIES (PPP) | 16.70 | €bn |

How to determine the collection types?

The Input-Output problem

The problem:

How to measure digital output in a way that relates to the analogue materials in a meaningful way?

Input:

Analogue materials we want to digitise

Output:

The digitised data representing the analogue materials

Two main input-output issues:

- The classification of the analogue and digitised materials
 - The units with which the analogue and digitised materials can be measured
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From: Numeric Study Report

Table 1 Classification of materials held in collections

| Framework categories | Units |
|--------------------------------------|----------------------------|
| Archival records | <i>Metres</i> ¹ |
| Rare books | <i>Volumes</i> |
| Other books | <i>Volumes</i> |
| Newspapers | <i>Issues</i> |
| Serials | <i>Volumes</i> |
| Manuscripts | <i>Number</i> |
| Sheet music | <i>Number</i> |
| Microforms/microfilms ² | <i>Number</i> |
| Maps | <i>Number</i> |
| Photographs | <i>Number</i> |
| Engravings/prints | <i>Number</i> |
| Drawings | <i>Number</i> |
| Posters | <i>Number</i> |
| Postcards | <i>Number</i> |
| Paintings | <i>Number</i> |
| Any other two dimensional object | <i>Number</i> |
| Three dimensional works of art | <i>Objects</i> |
| Man-made artefacts | <i>Objects</i> |
| Natural world specimens | <i>Objects</i> |
| Other objects in collections | <i>Objects</i> |
| Monuments ³ | <i>Number</i> |
| Film | <i>Hours</i> |
| Video recordings | <i>Hours</i> |
| Audio (music & other recorded sound) | <i>Hours</i> |
| Other items not classified above | <i>Number</i> |

| Term (objects) | These terms also mean: | Suggested unit of measurement |
|---|---|-------------------------------|
| <i>Archives</i> | | |
| Archives (macro level) | Personal archives | Quantity |
| Records (micro level) | | Quantity |
| <i>Other heritage collections: museum collections, library collections, historical-architectural collections, scientific collections and archaeological collections</i> | | |
| Audio files (excl. digital audio books) | | Hours |
| Databases (containing cultural heritage metadata) | Possibly with user-generated content | Quantity |
| Digital (3D) designs or reconstructions of objects and buildings | | Quantity |
| Digital audio books | | Titles |
| Digital maps and ground plans | | Titles |
| Digital art objects/installations (incl. Internet art) | | Works of art |
| Digital research files | Such as files from archaeological excavation projects | Files |
| E-articles | Single-file or composite (enhanced publications) | Quantity |
| E-books | | Titles |
| E-newspapers | | Titles and issues |
| Photos | Other born-digital images | Files |
| Games | | Games |
| GIS files | | Titles |
| Online newsletters | | Titles (and issues) |
| Software (customized) | | Programmes |
| Video recordings/Films | Films, animated films | Hours |
| Websites (and parts of websites) | Blogs, tweets, widgets, wikis | Number of sites |
| Other digital documents | E-flyers, reports, and such | Titles |

Recommendations from workshop 27-1-2012

Definitions:

1. Promote a common understanding of what cultural heritage is
2. Define criteria of what information objects can be considered as digital cultural heritage

Context:

3. For heritage wide harmonisation, only generic, high level solutions can be applied. The practice across sectors is too diverse to change.
4. Measuring the actual status of digitisation should be related to understanding the total costs of ownership.
5. Understanding the developments in information management outside the cultural heritage institutions is needed in order to create new selection and acquisition policies for digital heritage.

Survey methodology:

6. The starting point for improving the methodology of measuring digital heritage collections should be the digital realm, not the physical one.
 7. Measuring digital collections requires a better determination of digital units (which may be simple or complex)
 8. Determining digital units can best be done with a hierarchical classification that expresses dimensions and relationships.
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