



The Digital Heritage Landscape

The Netherlands and abroad Programmes and policy

Marco de Niet
The DEN Foundation

Digital Access to Cultural Heritage
Den Haag, 7 February 2013

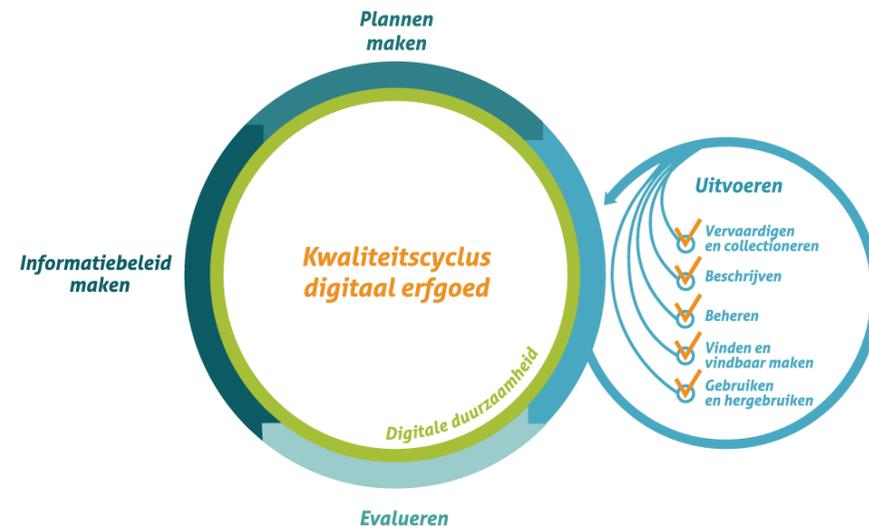


The DEN Foundation (Digital Heritage Netherlands) is the Dutch knowledge centre for digital heritage.

DEN supports good digitisation practices at archives, museums and other cultural institutions.

DEN encourages the institutions to jointly create a future-proof national infrastructure for digital heritage.

DEN is sponsored by the Dutch Ministry of Education, Cultural Affairs and Science





1. What is digital heritage?
2. Evolution of digitisation by cultural heritage institutions
3. The Dutch digital heritage landscape
4. European policy as a context



1. What is digital heritage?

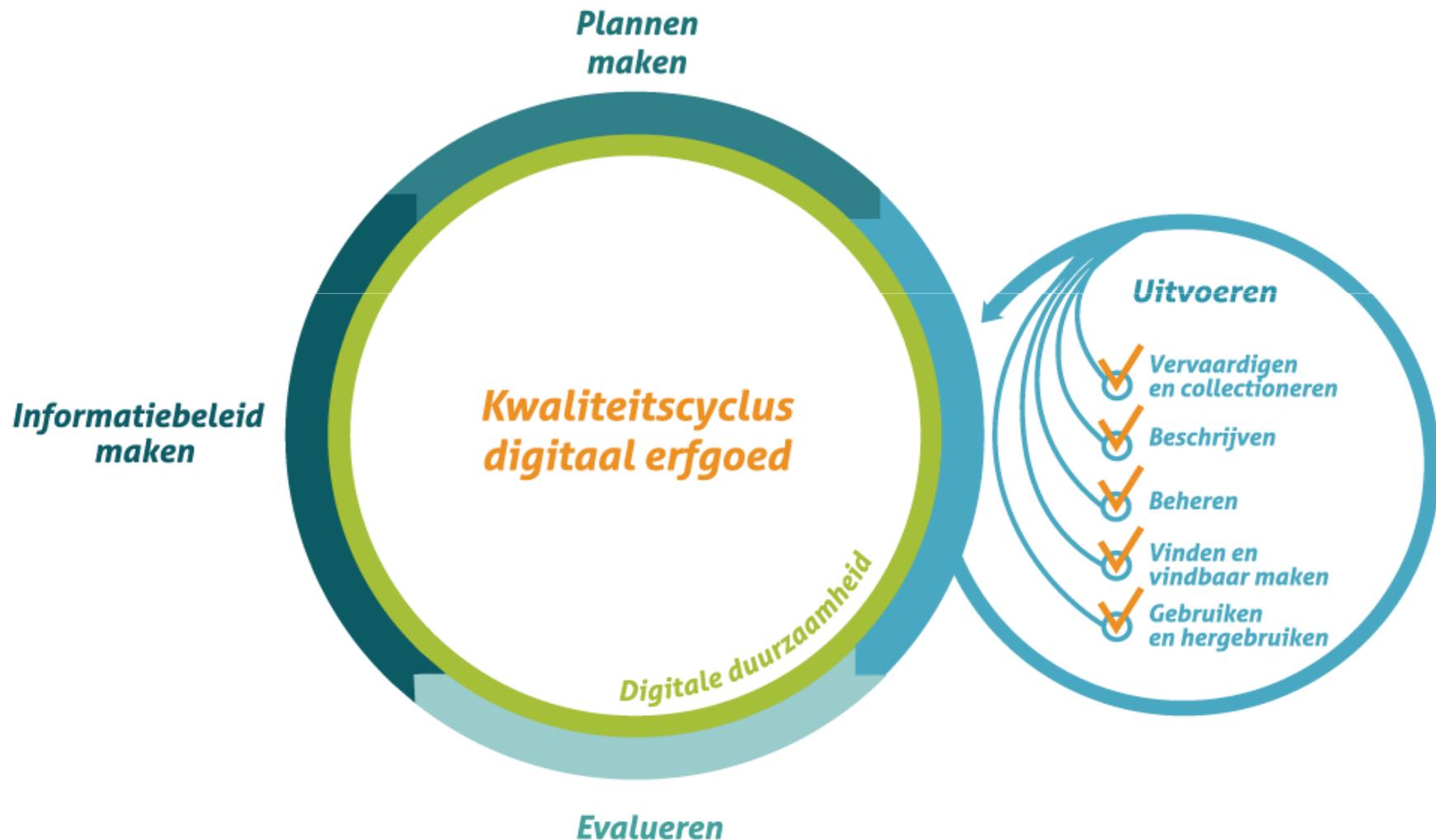


This is not digitisation!





This is digitisation!





Three types of Digital Heritage

'Born digital' heritage

Digital by origin (e.g. electronic art, electronic archives, digital photographs).

Digitised heritage

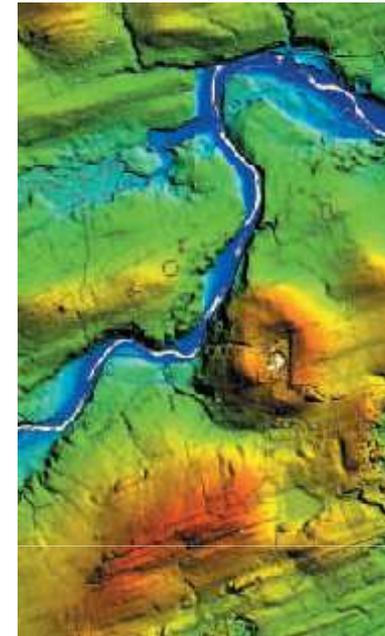
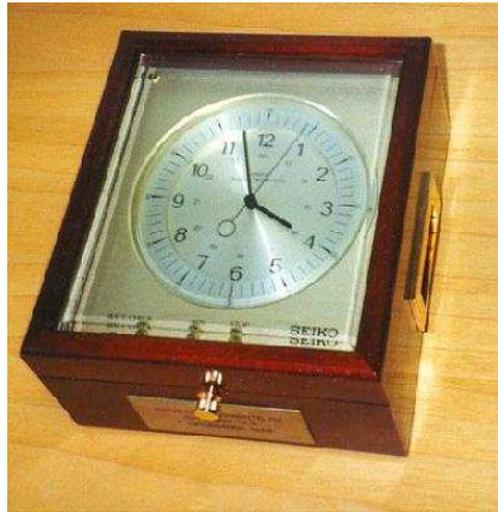
Cultural artefacts that (did) exist in the physical world and have been reproduced with digital technology (e.g. scans of paper objects, photographs of paintings, encoded audio or video, reconstructions of monuments).

Digital information about cultural heritage objects

E.g. structured object descriptions, collection level descriptions, x-rays of paintings, knowledge organisation systems like thesauri and ontologies, etc.

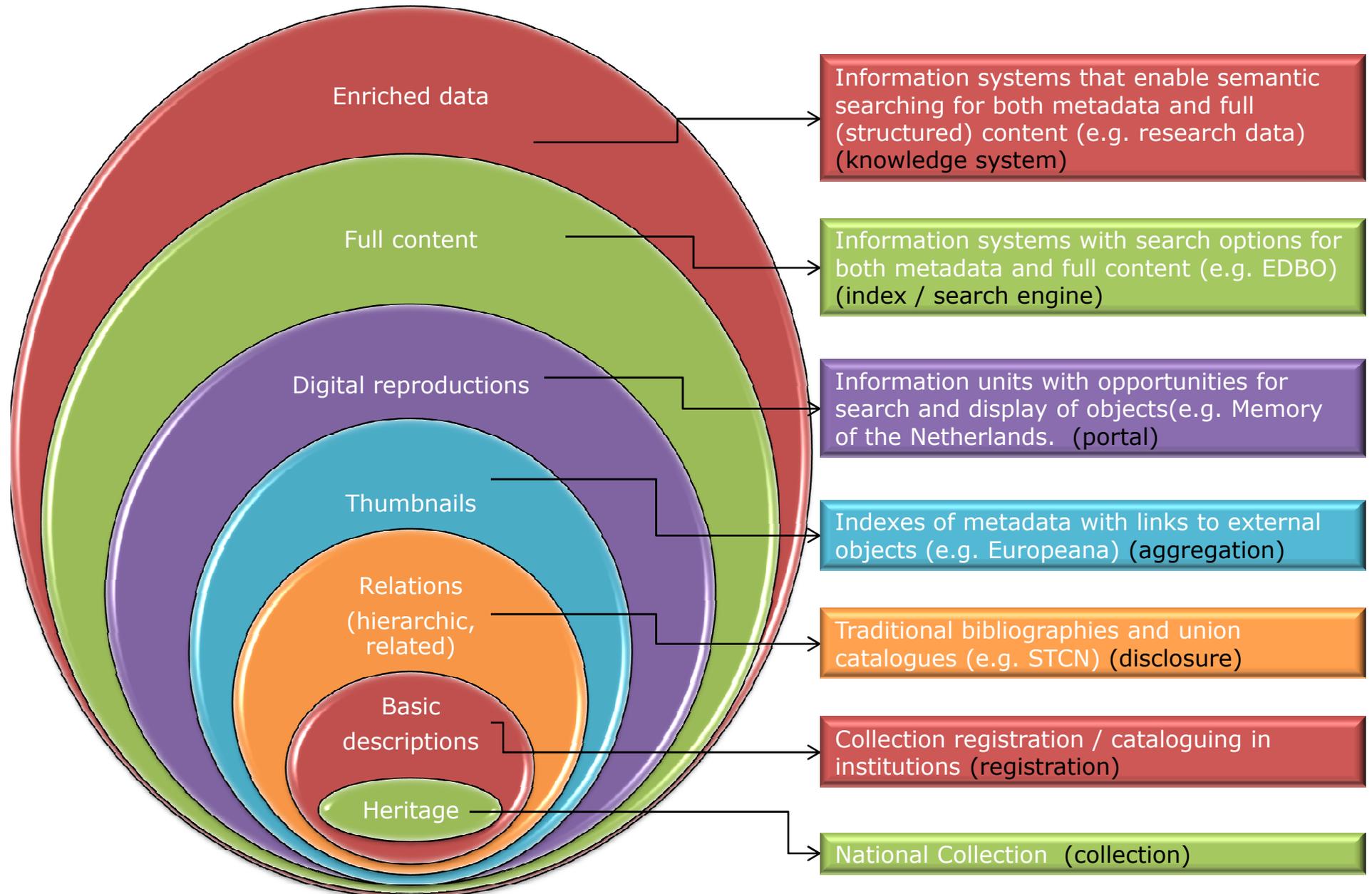
All three types have their own needs for preservation and access

Heritage = Observation



Voud 16 42 Kapp. 112 11. 100. Tot het beekennen
eener jaarlycke vergadering voor de zwaarten
aan den Secretaris van de Commisje ingeseld
tot herziening van het Reglement, noemen de
Simpulijns weeskinderen bij de verichtingen
des Abilloneer, enz. — Pet. liut. fias







2. Evolution of digitisation by cultural heritage institutions



The Dutch Heritage Collection

Museum collection: \pm 44 million objects

Archival collections: \pm 845 km (= \pm 6 billion pages)

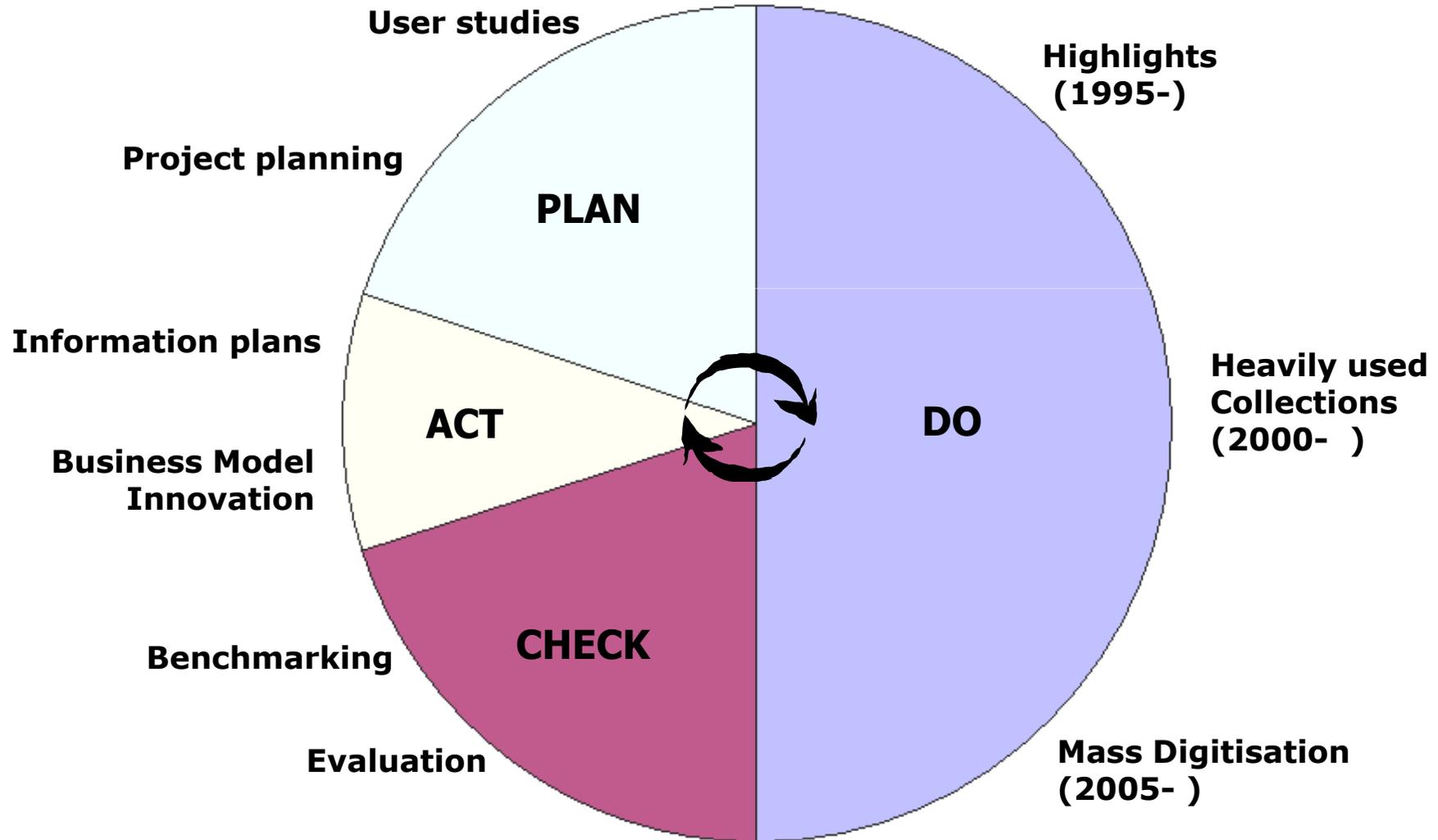
Academic libraries: \pm 9 million items

Audio visual collections: 830.000 uur

Alles uit de kast: it takes 150.000 man-year to digitise the entire Dutch heritage collection kept by institutions



Evolution of digitisation





How much has been digitised?

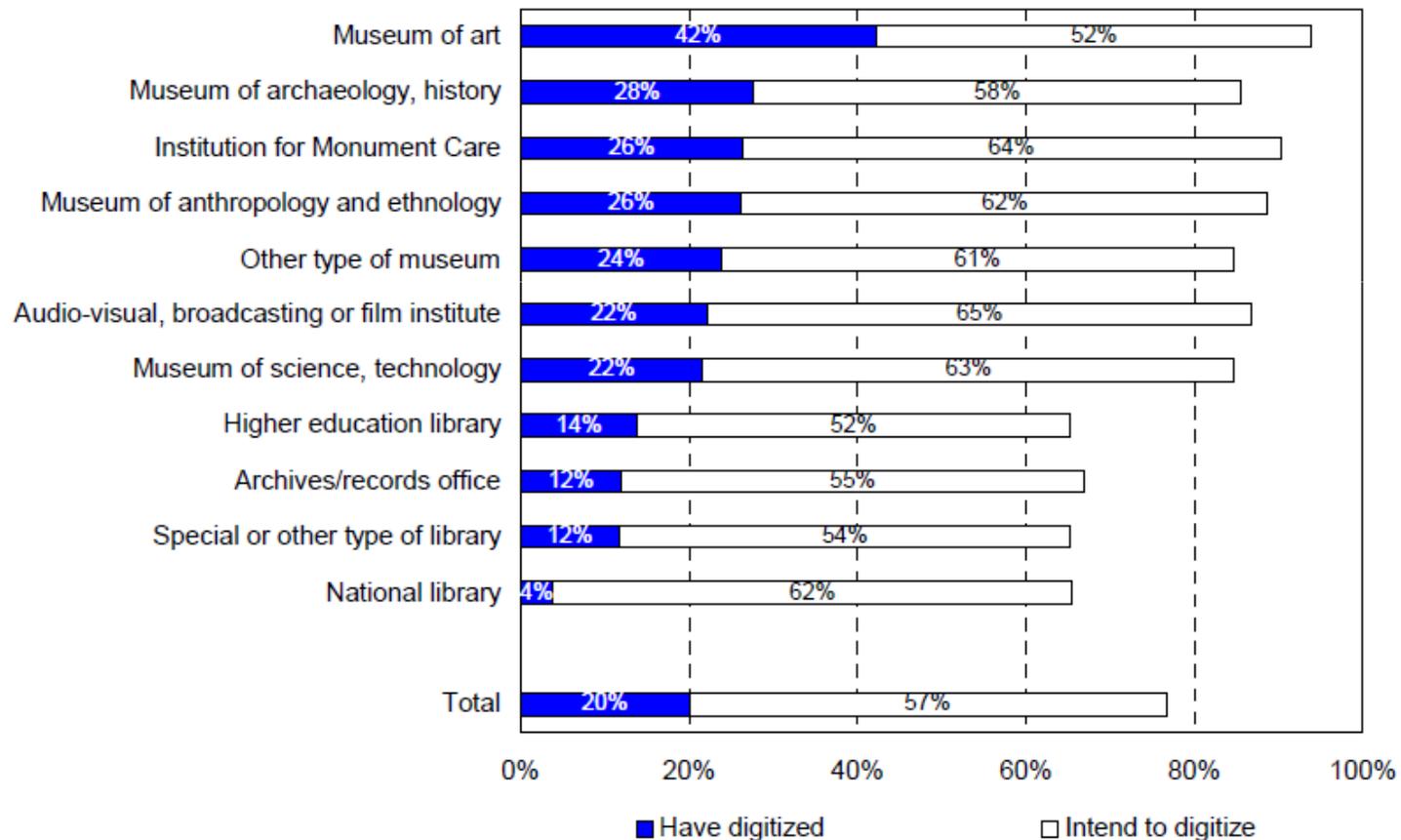


Figure 5: Estimated percentage of heritage collection already digitally reproduced and percentage still to be digitally reproduced (n=1626)

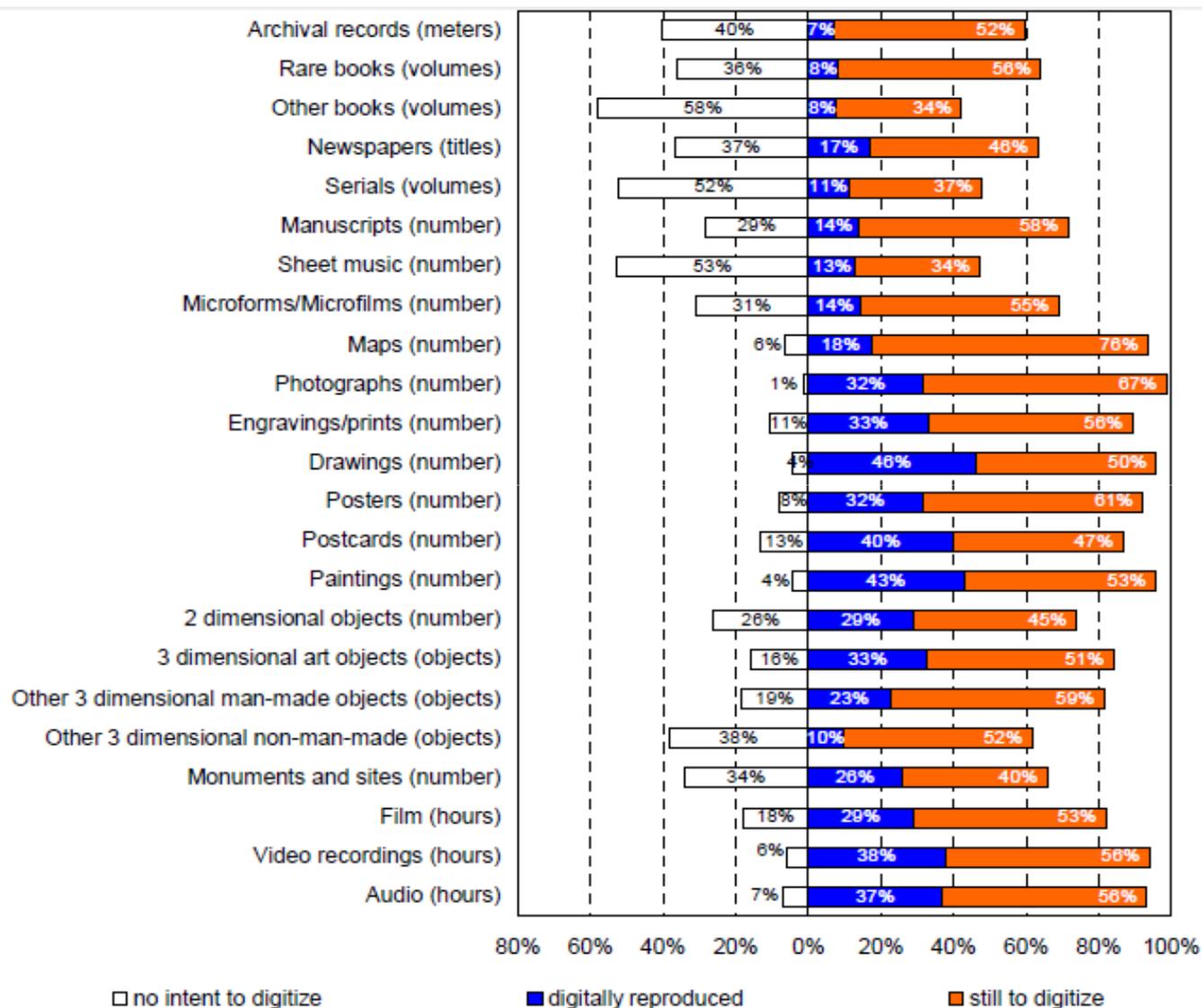


Figure 8: Part of the collection currently digitized, intended to digitize and with no intention to digitize (n=200)



“Libraries were never warehouses of books.
They have always been and always will be
centers of learning.”

(Robert Darnton, The case for books)



Offer and demand

Digitisation has very much been a 'push' activity.

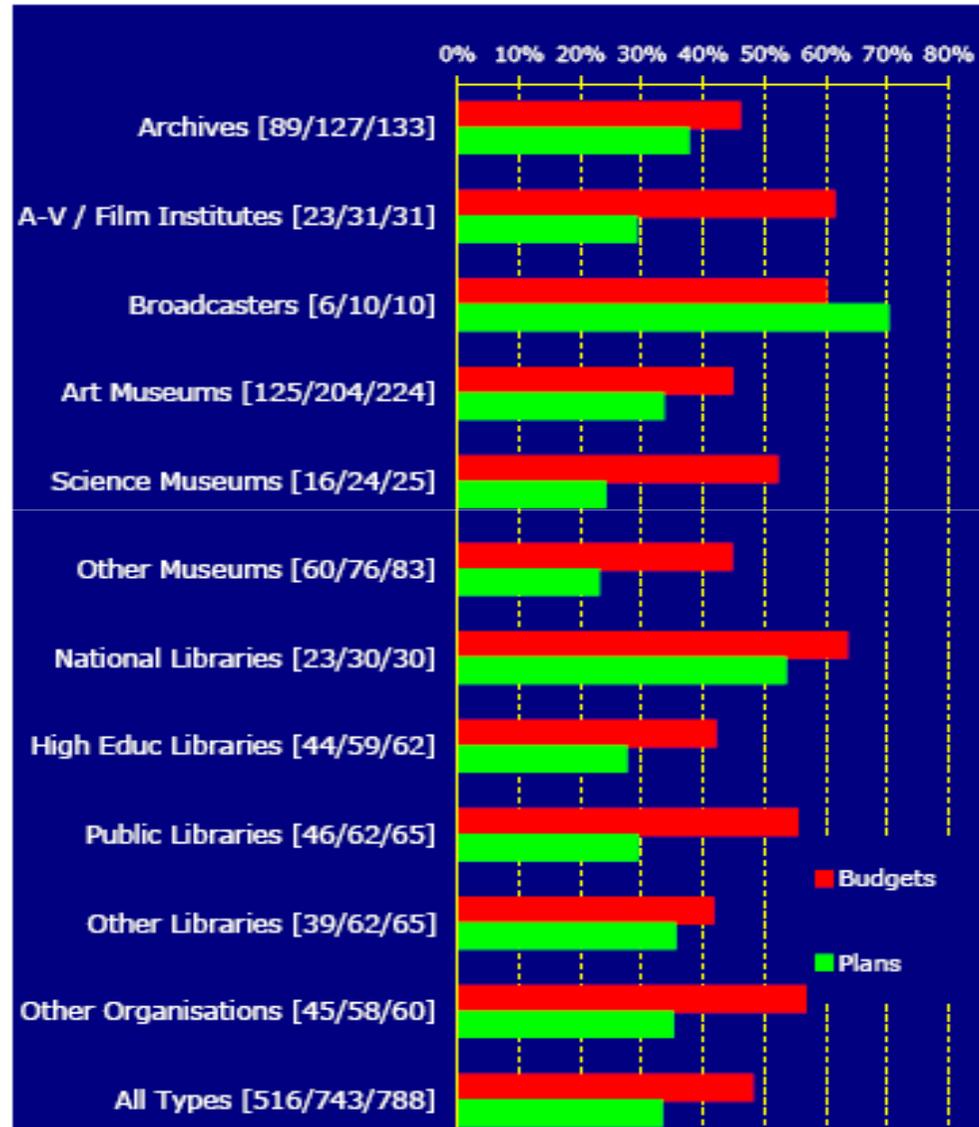
The heritage institutions decide what, when and how their collections will be digitised.

But how do we anticipate on and learn from the digital behaviour of our (potential) users?



Strategic information planning...

- Helps institutions to make ICT an integral part of their overall policy
- Supports standardisation by making it a choice, a strategy, not a burden
- Defines how to move from project driven digitisation to user-driven services
- Provides guidance for digital innovation: "always in beta".



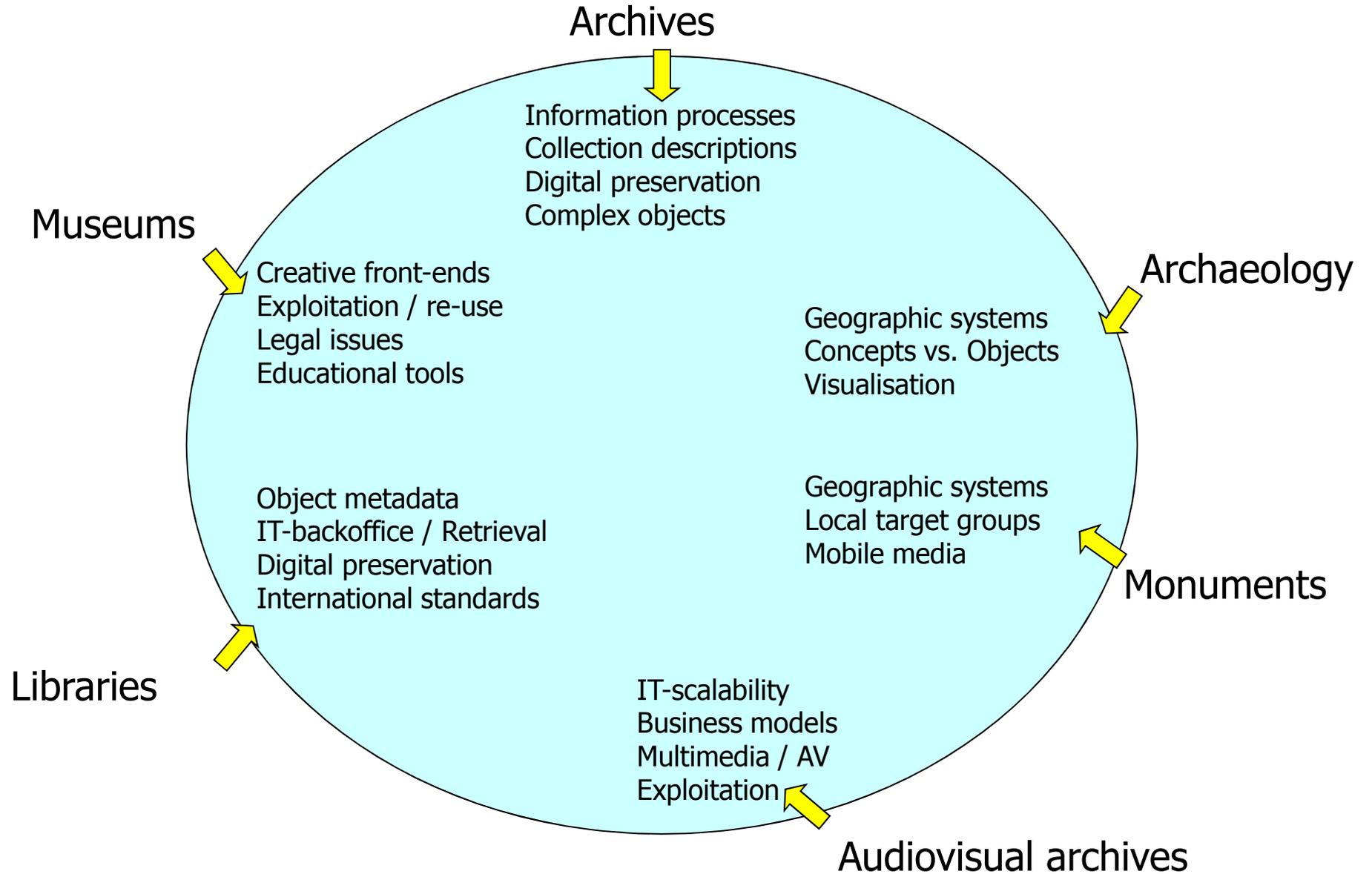
[The first two figures in brackets indicate the number of institutions respectively responding to the question about their (1) BUDGET and their possession of a (2) PLAN; the third figure is the total number of (3) survey respondents. Some will not have indicated that they possess a budget or a plan; the proportion that did is indicated by the bars in the chart.]

Separate
digitisation
budgets

Information
plans available



3. The Dutch digital heritage landscape





National context of DEN

Creative industries

HNI
CLICK
Service suppliers

Education

Kennisnet
SURF

Government

Forum Standaardisatie
NOiV
Nationaal Archief
NCDD

Science

CATCH / CATCH+
CLARIN / DARIAH
DANS
NCDD

Heritage wide topics

Copyright / Legal issues

Werkgroep Auteursrechten
FOBID/JC

Policy develop. / funding

Ministry OCW, Taalunie,
Provincia governments

Business model innov.

Kennisland, TNO, Erfgoed2.0
Waterwolf, HU Utrecht

Digital preservation

CCDD

Standards & infrastruct.

Digitale CollectieNL, Portals
OpenCultuurData

Quality assurance

RCE, 'Meten is weten',
funds

Training / Man. develop.

GO, Reinwardt, UL/BDMS

User studies / social media

SCP, Boekman, CBS

Sectors

Archaeo-logy

RCE
CAA-NL

Archives

BRAIN
ACDD
STAP
NA / RHC's
Archief2.0

AV-archives

B&G
AVA-net
NIMk

Libraries

KB
SIOB
Bibliotheek.
nl
FOBID
UKB Bijzcol

Monuments

RCE
LEU

Museums

NMV
SIMIN
Museum-
register
LCM
Qmus



National policy

There are two sides to Dutch government policy regarding digitisation of cultural heritage:

Decentralised approach:

- Strengthening local activities and innovation
- Promoting creation of institutional ICT policies
- Investing in staff training
- Funding on national, provincial and local level

Strengthening the national infrastructure in EU-context:

- “Digital Collection Netherlands”
- Infrastructure for preservation and access
- Legal framework / copyright
- Quality assurance based on self regulation



Standardisation



Standardisation

Standardisation enables users to find and access digital heritage anywhere, anytime.

Standardisation is not a process that can be forced by the government entirely.

It can only last if the institutions support the decisions on standardisation and make them their policy.

Quality assurance by self regulation ('Comply or explain')

Support for both best practices and basic practices



DEN | Standaarden en richtlijnen - Mozilla Firefox

Bestand Bewerken Beeld Geschiedenis Bladwijzers Extra Help

DEN | Standaarden en richtlijnen

www.den.nl/standaarden

Over DEN | English | Contact

den Kenniscentrum Digitaal Erfgoed

Home Nieuws ↓ Agenda ↓ Praktijkvoorbeelden ↓ **Aan de slag** ↓ Leesvoer ↓ Blog ↓ Stel een vraag ↓

Typ hier uw zoekopdracht

Home > Aan de slag > Standaarden en richtlijnen

Standaarden en richtlijnen

Hieronder zie je een overzicht van alle standaarden en richtlijnen in de kennisbank.

Er zijn 202 standaarden aangemeld

--Zoekterm--

Filter op:

--Materiaaltype-- --Kwaliteitscyclus--

--Status-- --Projecttype--

A | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **J** | **K** | **L** | **M** | **N** | **O** | **P** | **Q** | **R** | **S** | **T** | **U** | **V** | **W** | **X** | **Y** | **Z** | 0-9 | **Alle**

Standaard	Afkorting	Status	Valt onder
Aanmelden Projectenbank Digitaal Erfgoed		Aanbeveling	Projectevaluatie
ABC metadatamodel	ABC	Ontwikkeling	Algemene metadataschema's
Advanced Audio Coding	AAC	NEN/ISO Norm	Audio
Analyzed Layout and Text Object	ALTO	Aanbeveling	Structuur van digitale objecten
Anglo American Cataloguing Rules 2	AACR2	Aanbeveling	Metadataschema's voor bibliotheken

Nieuws

- CEST tools biedt overzicht softwarepakketten collectiebeheer
- Reminder call for proposals DISH2011
- Advies cultuurbeleid 2013 - 2016
- 'Best Practice' onderscheiding voor sterke digitale cultuurprojecten
- Nieuwe website DEN online!

Houd mij op de hoogte

e-mailadres voor nieuwsbrief

Agenda

Blog

- Red de 20e eeuw van de vergetelheid
- The Digital Dark Age en het voorkomen van de digitale midlife crisis
- Museum & The Web 2011 - dag 2
- Museum & The Web 2011 - dag 1
- Crowdsourcing: Want twee weten meer dan een!

Artikelen

- Culturele Coalitie Digitale Duurzaamheid (CCDD)
- Veelgestelde vragen over auteursrecht
- ENUMERATE: Europees thematisch netwerk gericht op digitaal erfgoedstatistieken
- Overzicht externe websites fondsenwerving
- Achtergronden Subsidiwijzer

archieven **Uitvoering** musea



Minimal ICT-requirements

THE BASICS is a DEN project aimed at national agreement on a set of standards:

- that is considered basic practice, so all institutions can apply them
- that support the entire cycle of digitisation
- that can be used for all digital heritage
- that assures quality, interoperability and efficiency

Basic practices are considered crucial to involve smaller institutions in the national infrastructure for digital heritage.



DE BASIS / The Basics

Basic requirements for findability of digital information
(core set of 7 standards)

Basic requirements for the creation of digital data

- Text
- Image
- AV-collections
- Geospatial data

Basic requirements for digital preservation

- Preservation policy
- Responsibilities within the institutions
- Participation in national repositories



Open Cultuur Data » Apps 2012 - Mozilla Firefox

Bestand Bewerken Beeld Geschiedenis Bladwijzers Extra Help

Open Cultuur Data » Apps 2012

www.opencultuurdata.nl/apps-2012/

Google

OPEN CULTUUR DATA

DELEN. VERBINDEN. VERRIJKEN.

- Home
- Wat?
- Waarom?
- Datasets
- Competitie 2012
- Apps 2012
- Apps 2011
- Over
- Contact
- About
- FAQ

Open Cultuur Data op Twitter

 [timmietoenaar](#)
[@lottebelice](#)
[@mbrinkerink](#)
[@Openbeelden](#) Ik zag 't leuk zeg :-)
[#opencultuurdata](#)



PAST DIT ICOON BIJ DIT GELUID?

Sounds Visual

Naam van de app: Sounds visual Beschrijving app: "Het geluid van Nederland" van het Beeld en Geluid instituut bevat e... [Details](#)



Heatmaps monumenten

Naam van de app: Heatmaps monumenten Beschrijving app: Heatmaps waarop de groei van buitenplaatsen door de eeuwen hee... [Details](#)



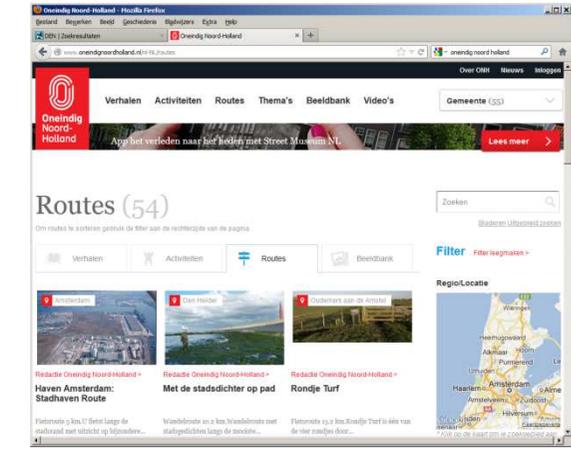
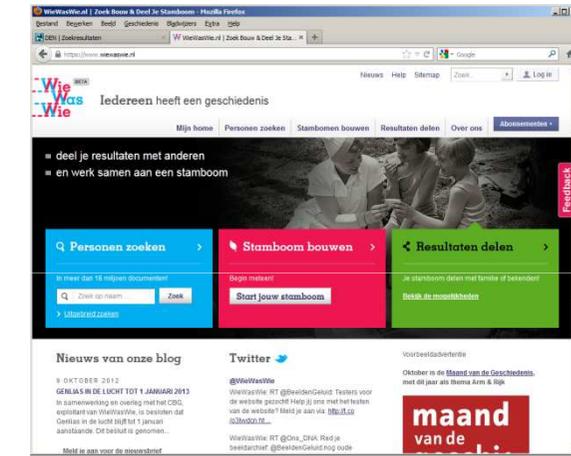
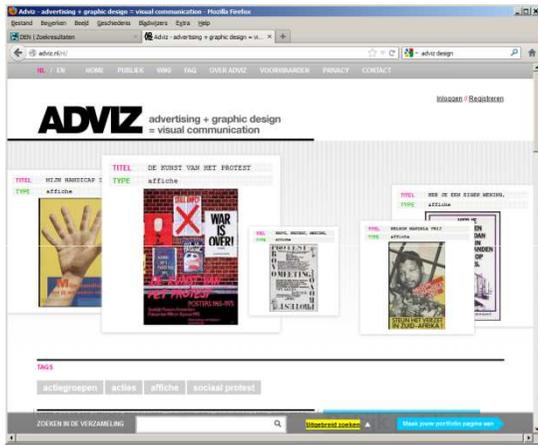
Tijdbalk.nl



Map the war



Aggregated access / Europeana





DIGITALE COLLECTIE

HOME DEELNEMEN PROJECT CASESTUDIES DOCUMENTATIE

STAPPENPLAN EUROPEANA

STAPPENPLAN

Hoe sluit u met uw collectie aan bij de Digitale Collectie en Europeana? Als uw collectie is gedigitaliseerd en goed is beschreven in een collectieregistratiesysteem, dan is aansluiting eenvoudig. U doorloopt een aantal stappen.

- **Stap 1: Standaarden.** Voldoet uw collectie aan DE BASIS?
- **Stap 2: Route.** Hoe kunt u het beste data aanleveren?
- **Stap 3: Mapping.** Zijn uw metadata gemapt?
- **Stap 4: Rechten.** Zijn uw metadata vrijgegeven onder de CC0 verklaring?

1. Voldoet uw collectie aan DE BASIS?

Iedere erfgoedinstelling die wil aansluiten bij de nationale infrastructuur voor digitaal erfgoed, de Digitale Collectie, moet aan DE BASIS voldoen. Belangrijk voor Europeana zijn de minimale eisen zoals die zijn opgesteld in DE BASIS voor [vindbaarheid](#) en [beschrijving](#). Sleutelvragen daarbij zijn:

- Is de informatie te begrijpen buiten de context van de collectie?
- Worden trefwoordenlijsten of thesauri gebruikt?
- Zijn de gegevens exporteerbaar in een XML- formaat?
- Zijn de objecten in digitale vorm beschikbaar en bereikbaar op internet via een URL?
- Zijn de metadata te [harvesten](#) via [OAI-PMH](#)?

Veel leveranciers zoals Adlib, Pictura of MaisFlexis bieden standaardmodules voor het aanbieden van data via OAI-PMH. De meeste leveranciers bieden [technische ondersteuning](#).

Partners

[Nationaal Archief](#)

[Nederlands Instituut voor Beeld en Geluid](#)

[Koninklijke Bibliotheek](#)

[Rijksdienst voor het Cultureel Erfgoed](#)

[Stichting DEN](#)

Het project is mogelijk gemaakt met een subsidie van het [Ministerie van Onderwijs, Cultuur en Wetenschap](#)

Zoeken

ZOEK



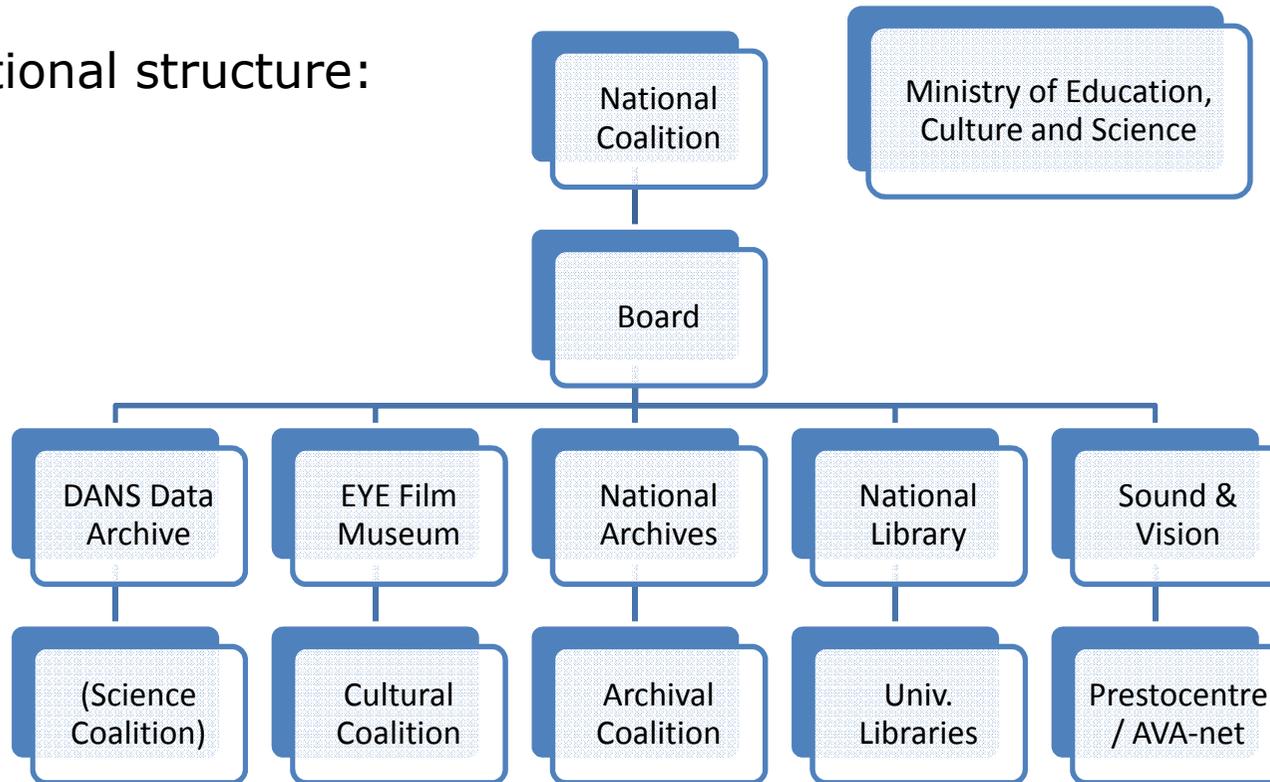
Digital preservation



Digital preservation in the Netherlands

Focus on public sector: government, science & culture (esp. media & cultural heritage)

Organisational structure:





Cultural Coalition Digital Preservation (est. 2010):

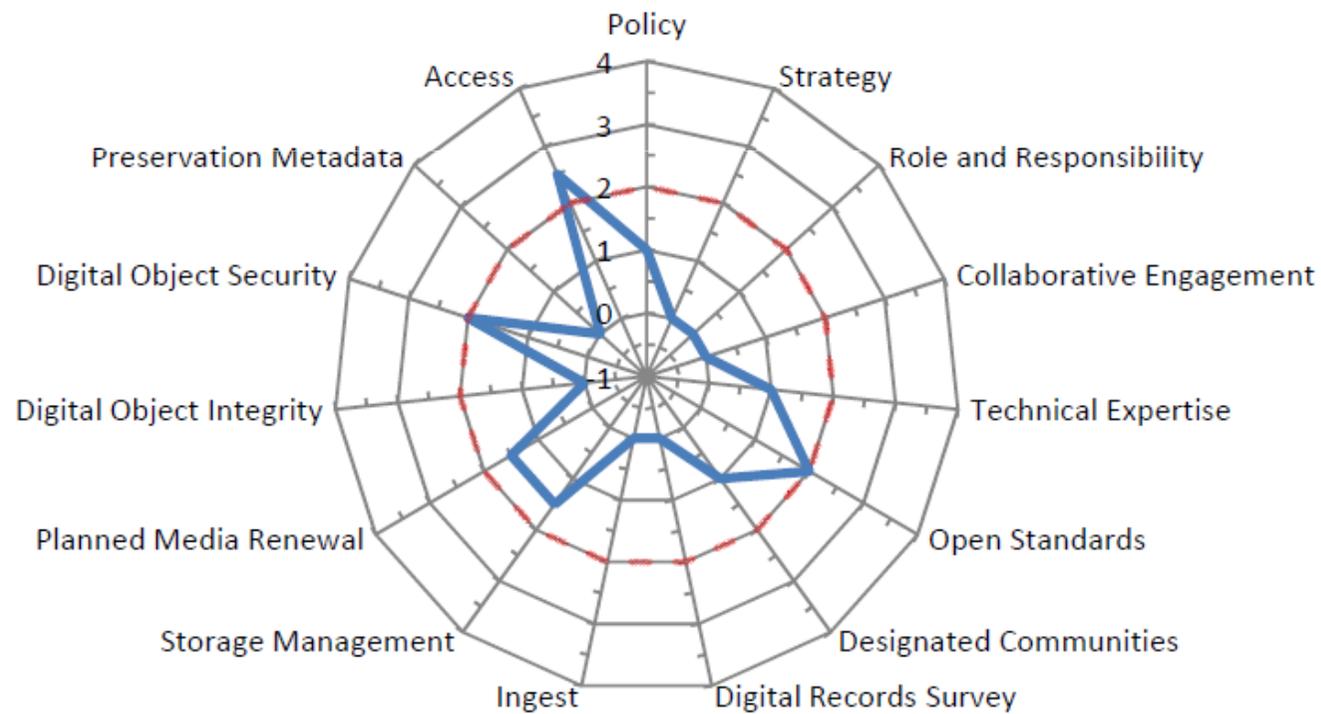
Structure

- Core group to set out strategies
- LinkedIn group (261 members from LAM's)
- Representation on the board of The National Coalition



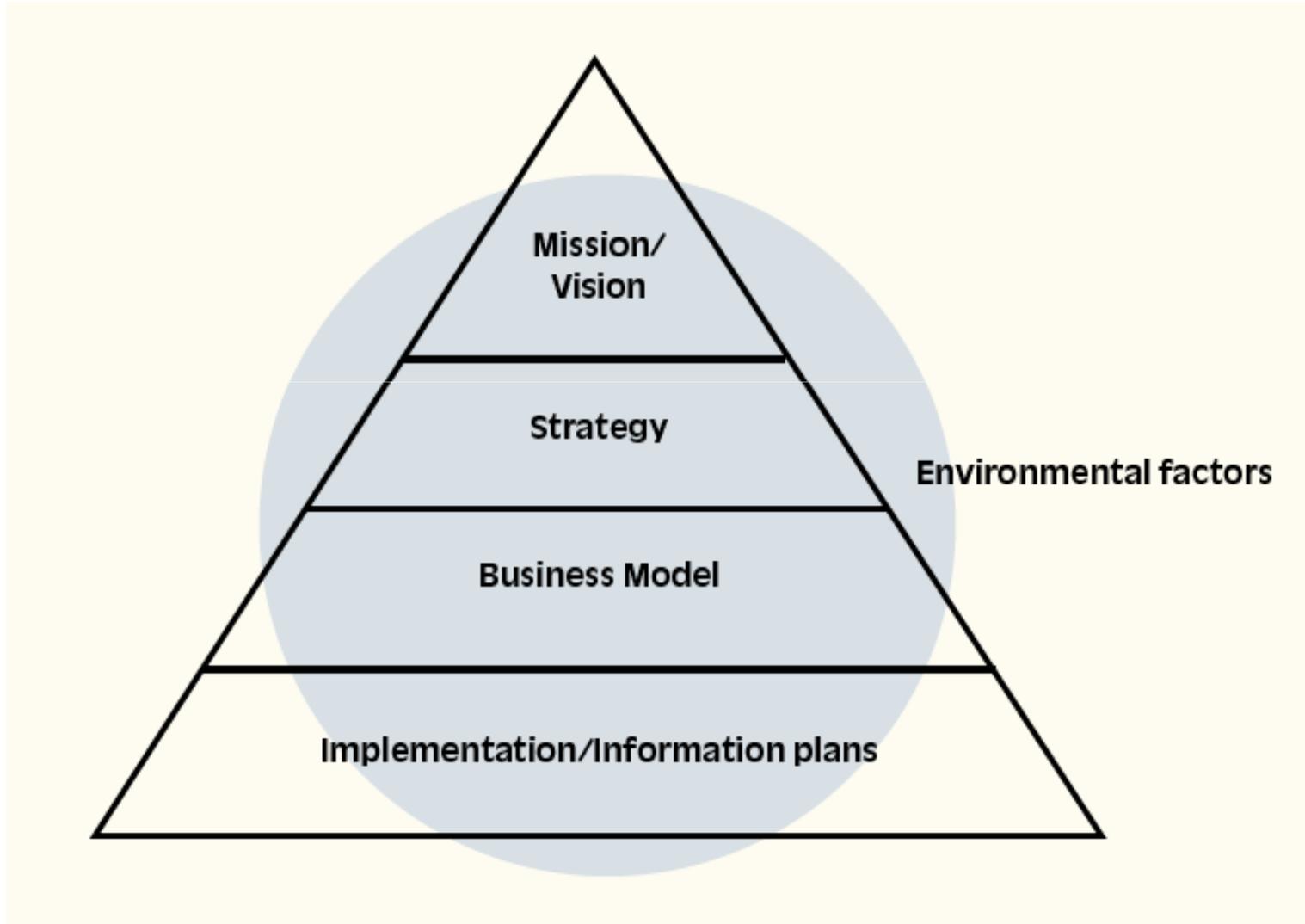


Tool for DP self assessment: www.scoremodel.org





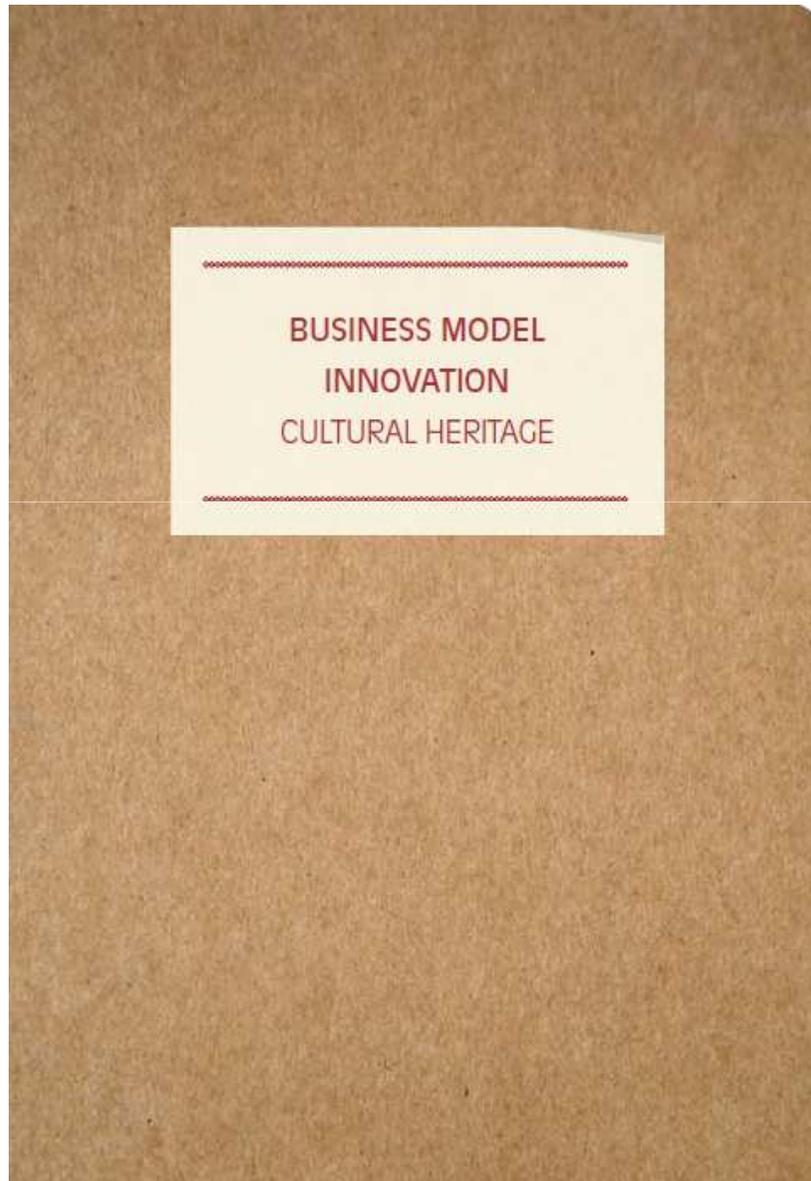
Business Model Innovation





Business Model Innovation:

Renewing the framework (or logic) used by an organisation for creating or increasing social and economic value

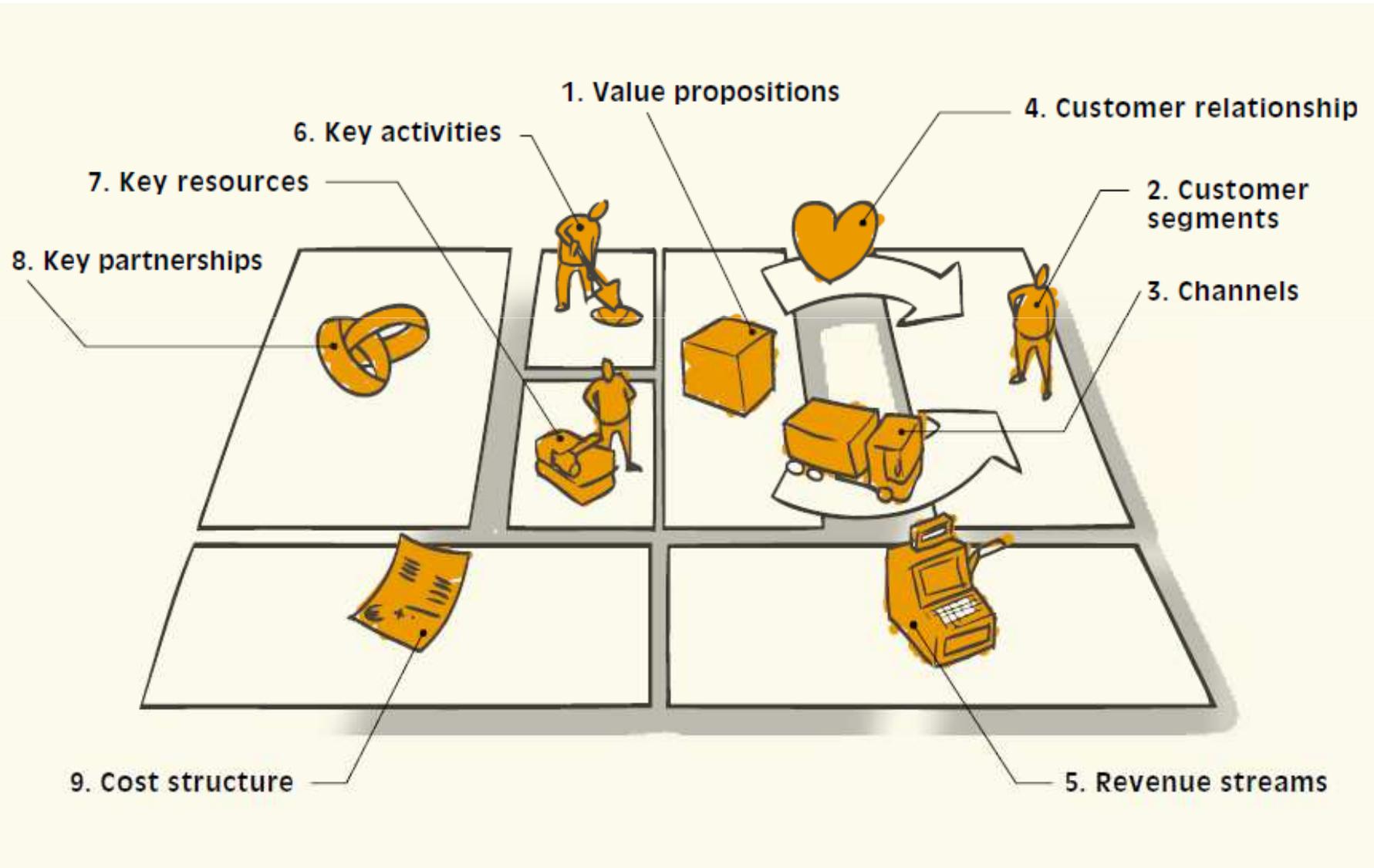


Written and published by
Kennisland, DEN &
Ministry of Culture (NL),
December 2009

Online available at
www.den.nl



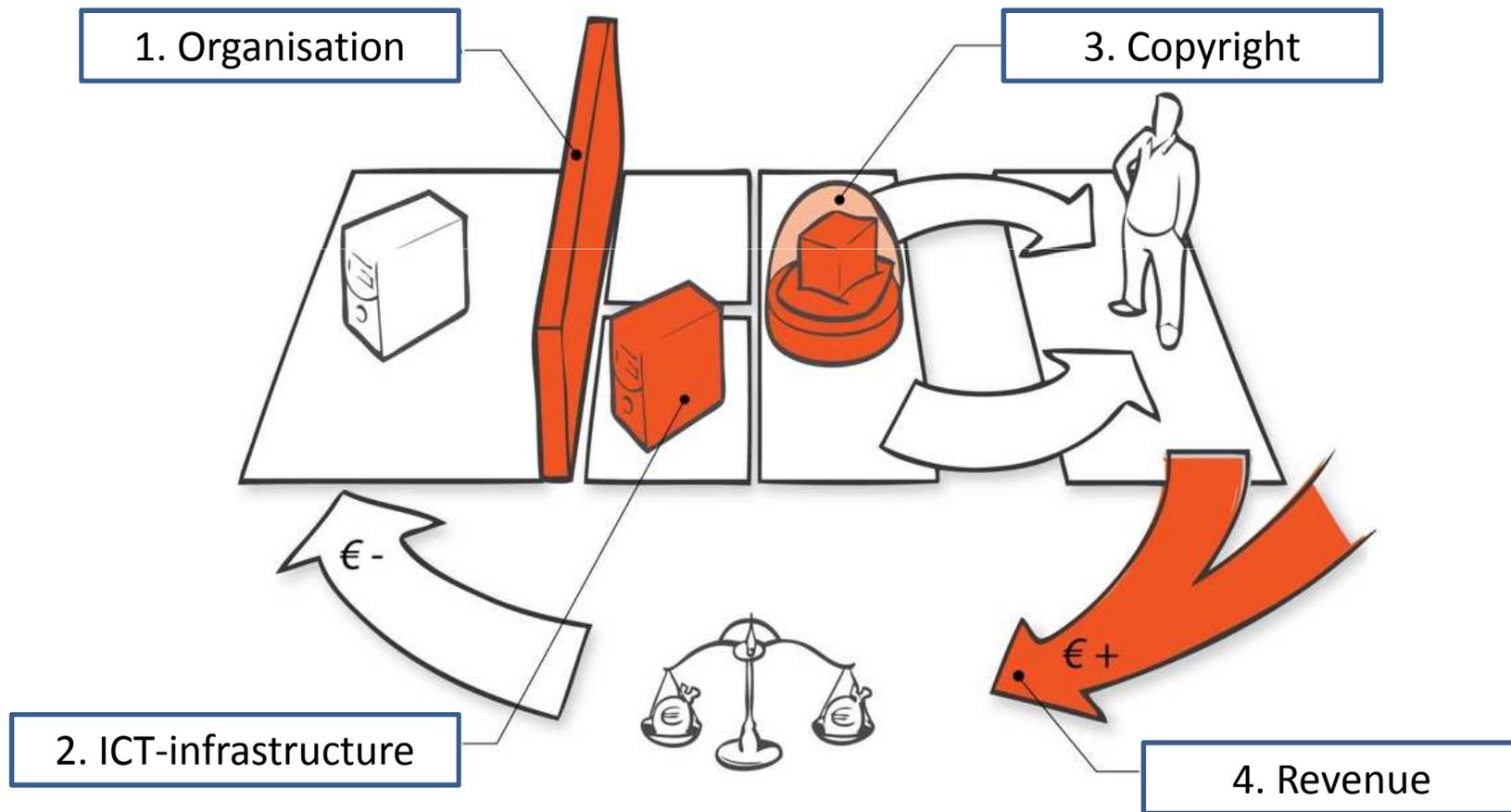
Business Model Canvass



Source: Alex Osterwalder



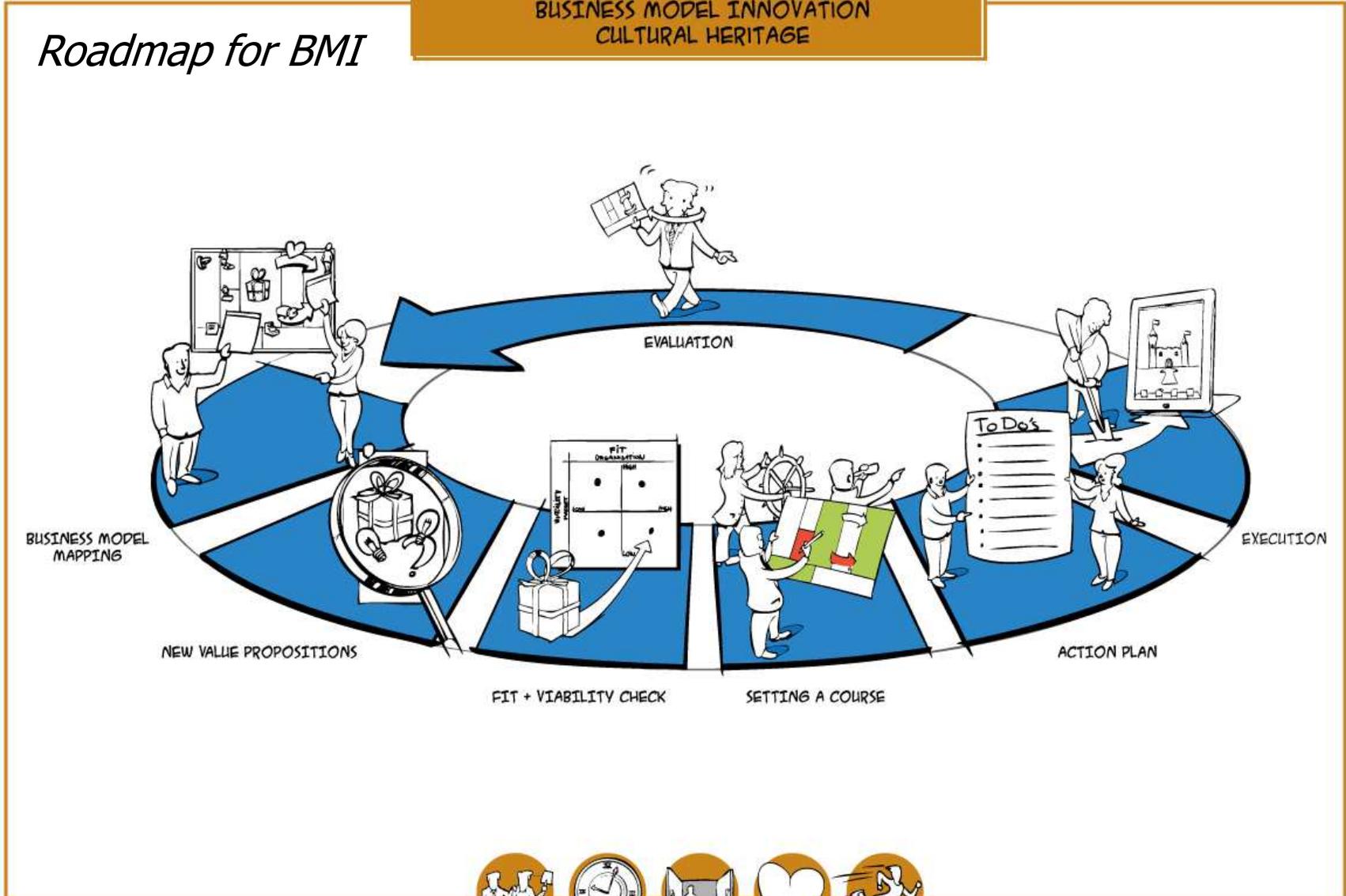
Major obstacles for CH





**BUSINESS MODEL INNOVATION
CULTURAL HERITAGE**

Roadmap for BMI



- 
TEAM
- 
TIME
- 
OPEN
- 
COMMITMENT
- 
SPEED

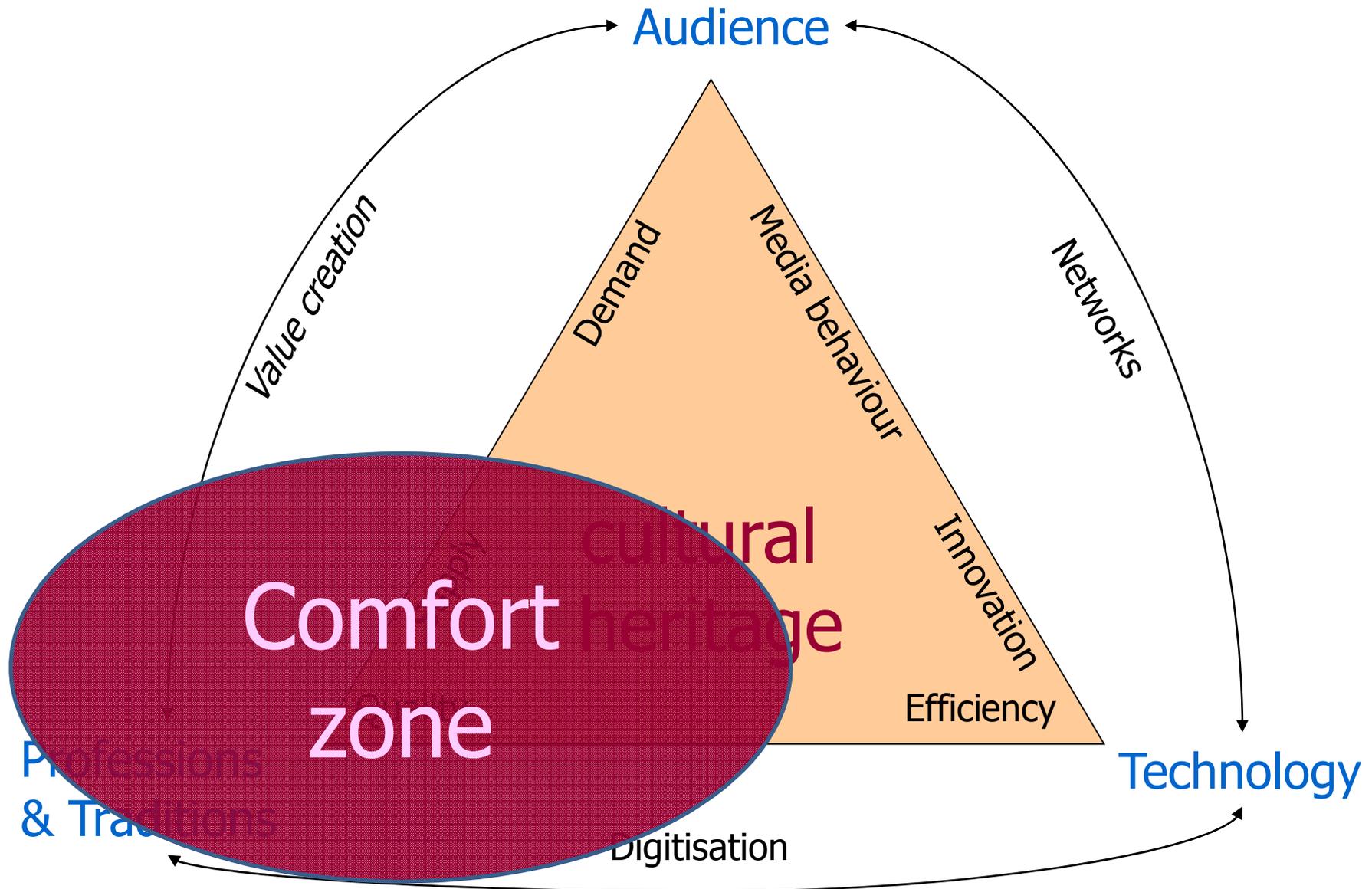


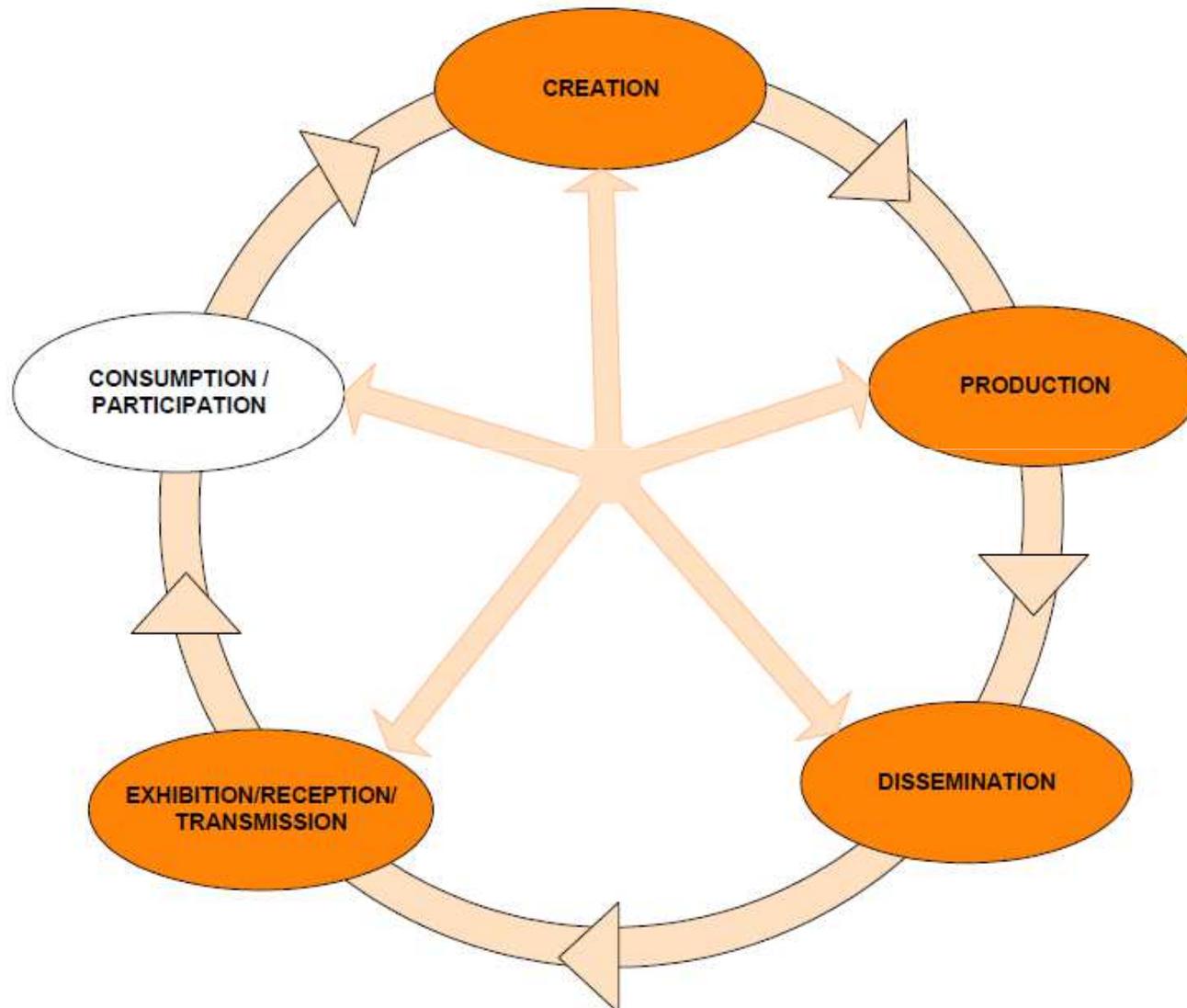
Organisational change



Changing values

- | | |
|------------------------|----------------------------|
| Proven workflows | - Acknowledge new trends |
| Strong identities | - Collaborate |
| Standardisation | - Diversify with new media |
| Factual services | - Stimulate creativity |
| Authoritative | - Service oriented |
| Long term preservation | - Short term flexibility |
| Authenticity | - User generated content |
| Free / Public domain | - New business models |
| Enable full access | - Respect copyright |
| Be an expert | - Be media literate |
| ... | - ... |





Unesco Culture Cycle (2009)

New media bring “a culture of mass self-communication in which people increasingly communicate to and through one another, rather than through formal media organisations like broadcasters and publishers”.

“All research is becoming more interconnected, collaborative and networked. Science is increasingly driven by the analysis of large overlapping clouds of data.”

Charles Leadbeater,
Cloud culture.



Creation of metadata is shifting

The Social Web (Web 2.0): the creation of metadata and subject descriptions is shifting from professionals to the users

The Semantic Web (Web 3.0): the creation of metadata and subject descriptions is shifting from professionals to computers



4. European policy as a context



“Digital versions of old works will not only **guarantee survival** through the ages, but **reach a much wider audience** without causing any risk to the original copy.

1. Preservation

Through digital libraries people will be able to visit the past virtually to **find, understand and experience** Europe's cultural wealth and history.”

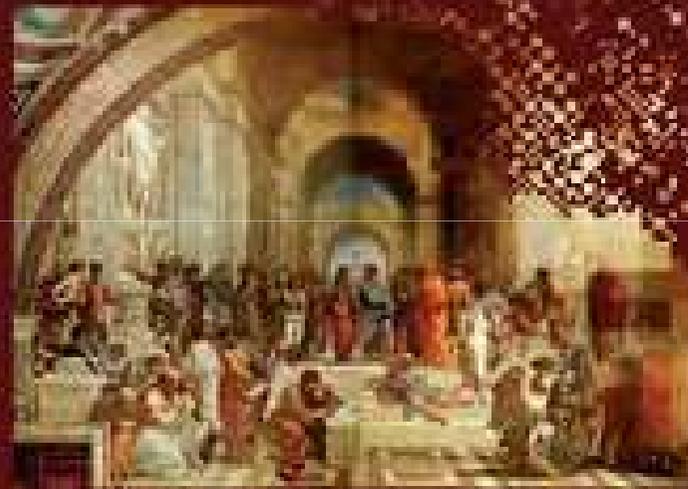
**2. Access /
Accessibility**

**3. Value through
services**

(European Commission, Augustus 2008)



THE NEW RENAISSANCE



REPORT OF THE 'COMITÉ DES SAGES'

ADVISORY GROUP OF EXPERTS
(CULTURE, MEDIA AND CREATIVE INDUSTRIES)



Explore Europe's cultural collections

Search Help

Like 5k +1 3.2K



From the blog

Charles Dickens
Today we are celebrating Charles Dickens' 200th birthday. Charles Dickens, the author of some of the most iconic novels and characters in English literature,...

Felix Mendelssohn
The composer, conductor and instrumental soloist Felix Mendelssohn is considered one of the most important figures of the Romantic period. Some of his most w...

Franz Schubert
"When I wished to sing of love, it turned to sorrow. And when I wished to sing of sorrow...

Featured item

Report of the Committee appointed to translate the inscription on the Rosetta Stone
This 1859 translation of the inscriptions on

Social media activities

Queen Elizabeth II of the United Kingdom (Portfolio Title: Reigning Queens (Royal Edition)) | Andy.
16 personen raden dit aan.

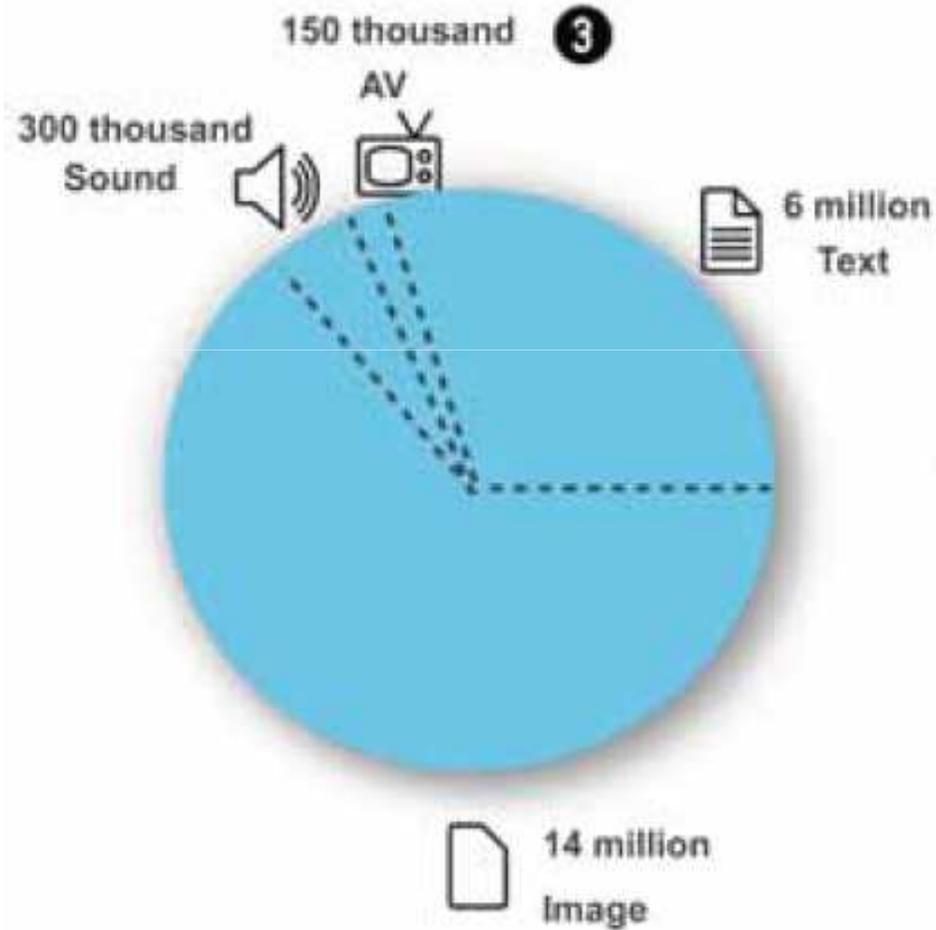
Fornborg
3 personen raden dit aan.

Dance around the Maypole
5 personen raden dit aan.

Fartygs-/båtämning
1 persoon raadt dit aan.



20 million



2011

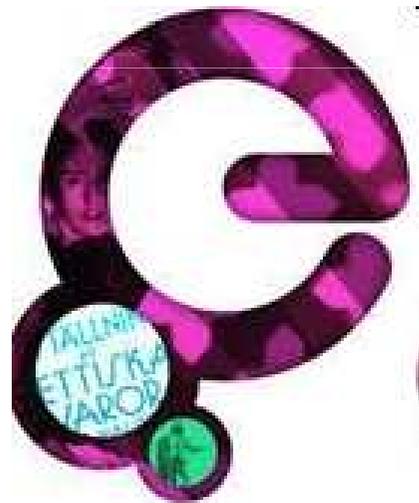


Europeana: service or infrastructure?

Portal

or

API-cluster



europaana
beleef cultuur

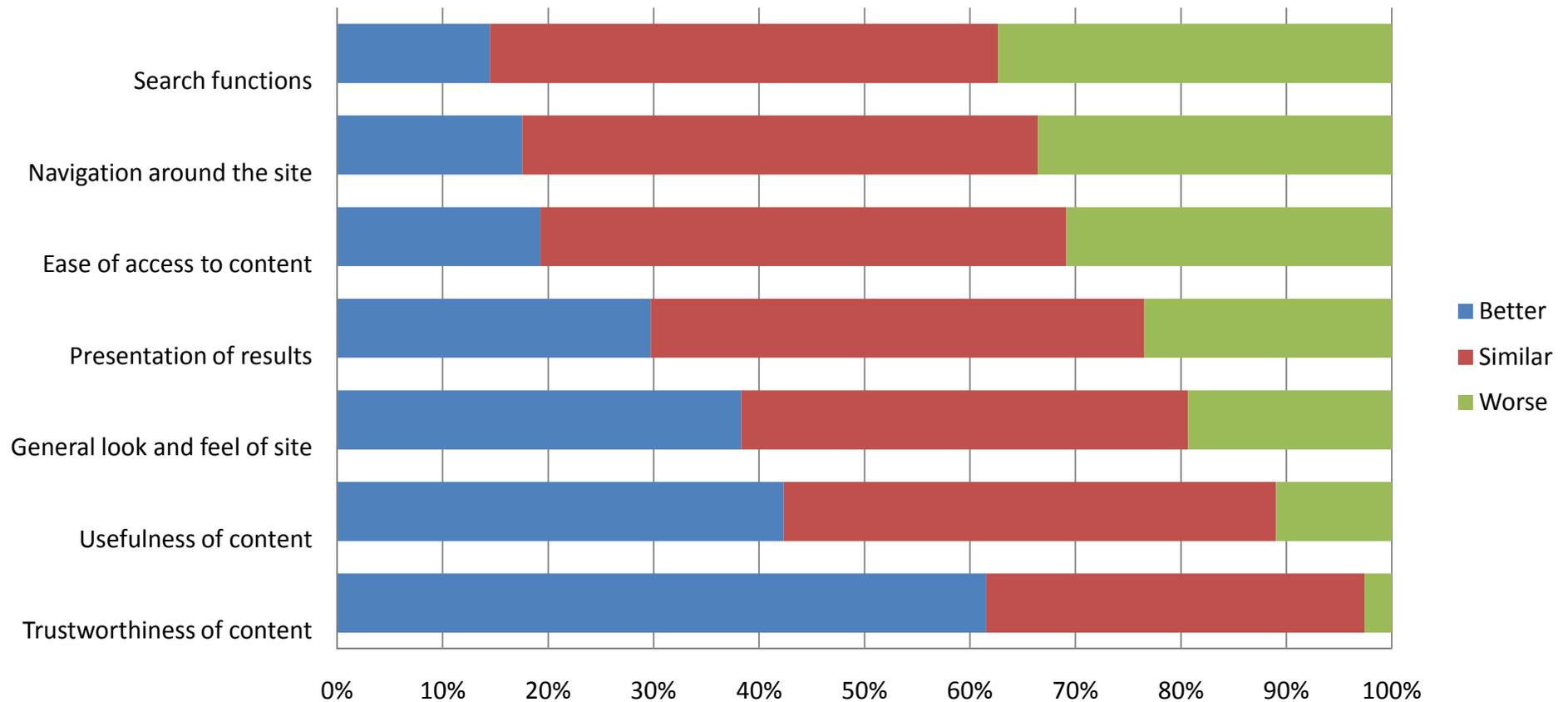


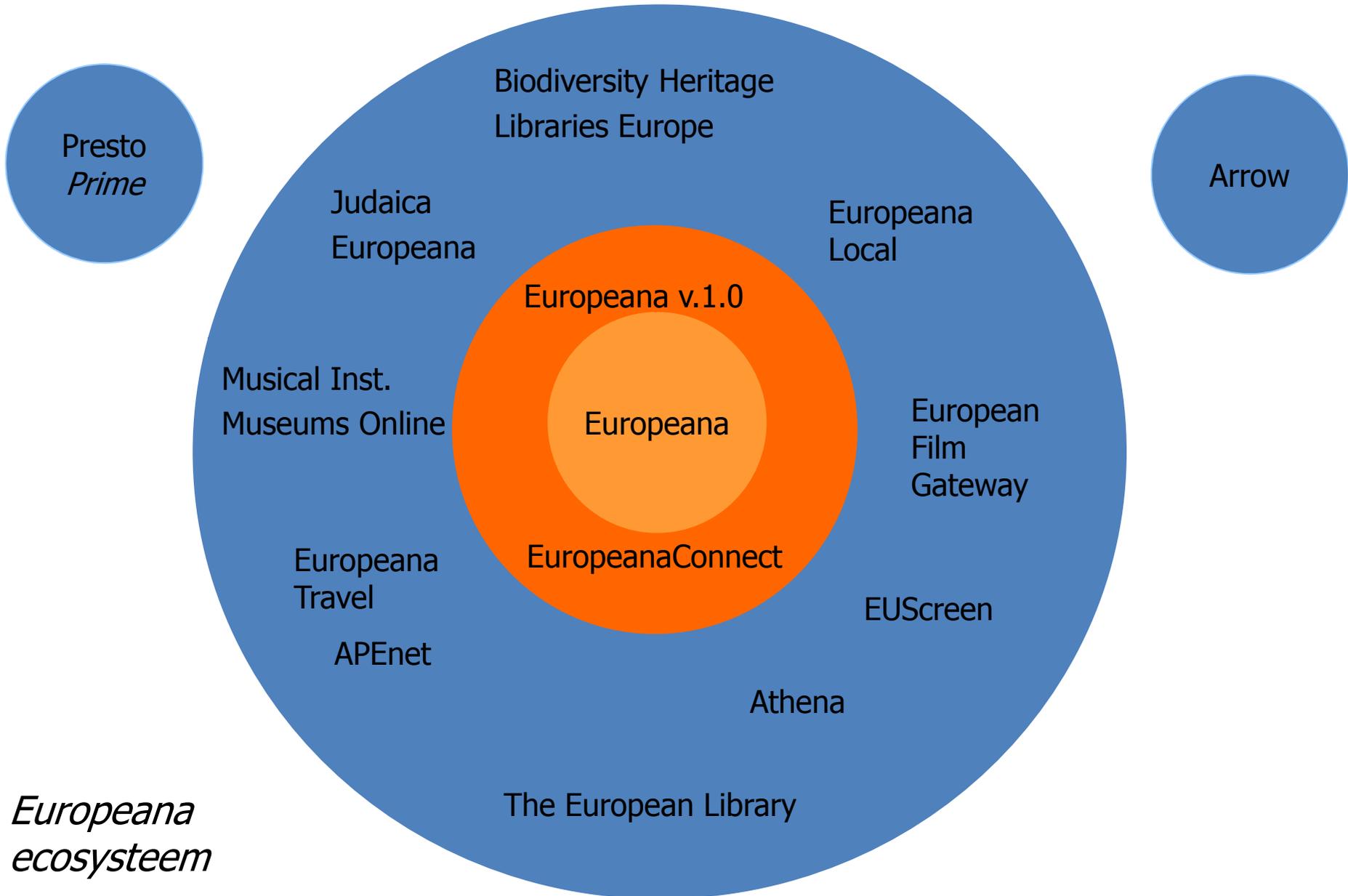
"Powered by Europeana"

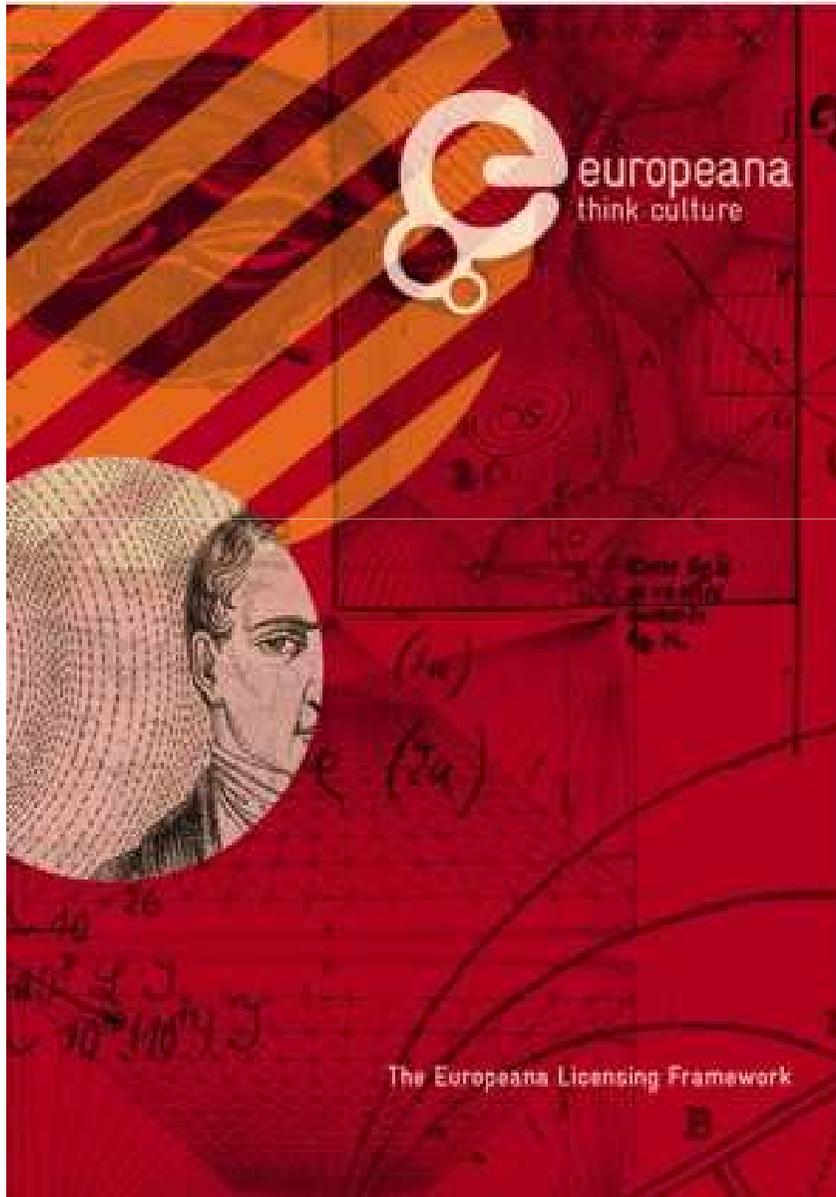


EUROPEANA - ONLINE VISITOR SURVEY- 2011

Chart 6 - Europeana - Rating against main competitor







“The majority of the network has declared itself in favour of data being offered to Europeana under the Creative Commons Universal Public Domain Dedication”

“A Cultural Commons for Europe could provide a new way to work together to enhance access to Europe’s cultural heritage in sustainable ways by balancing the needs and the expectations of cultural institutions with those of users and the creative industries.”



ENUMERATE is the European Thematic Network on Statistics for Digitisation, Digital Preservation and Online Access to Digital Cultural Heritage.



Why should we collect statistics on digitisation of cultural heritage?

1. Accountability: did we spend the (extra) money well?
2. Policy planning: how much time and money do we need for future digitisation projects? How much digital heritage will become (potentially) available for Europeana?
3. Benchmarking: are our investments and quality criteria comparable to what others are doing?



Key topics in ENUMERATE

Size and growth (supply):

#analogue; #metadata; #digital reproductions; #planned;
#born digital

Access and impact (demand):

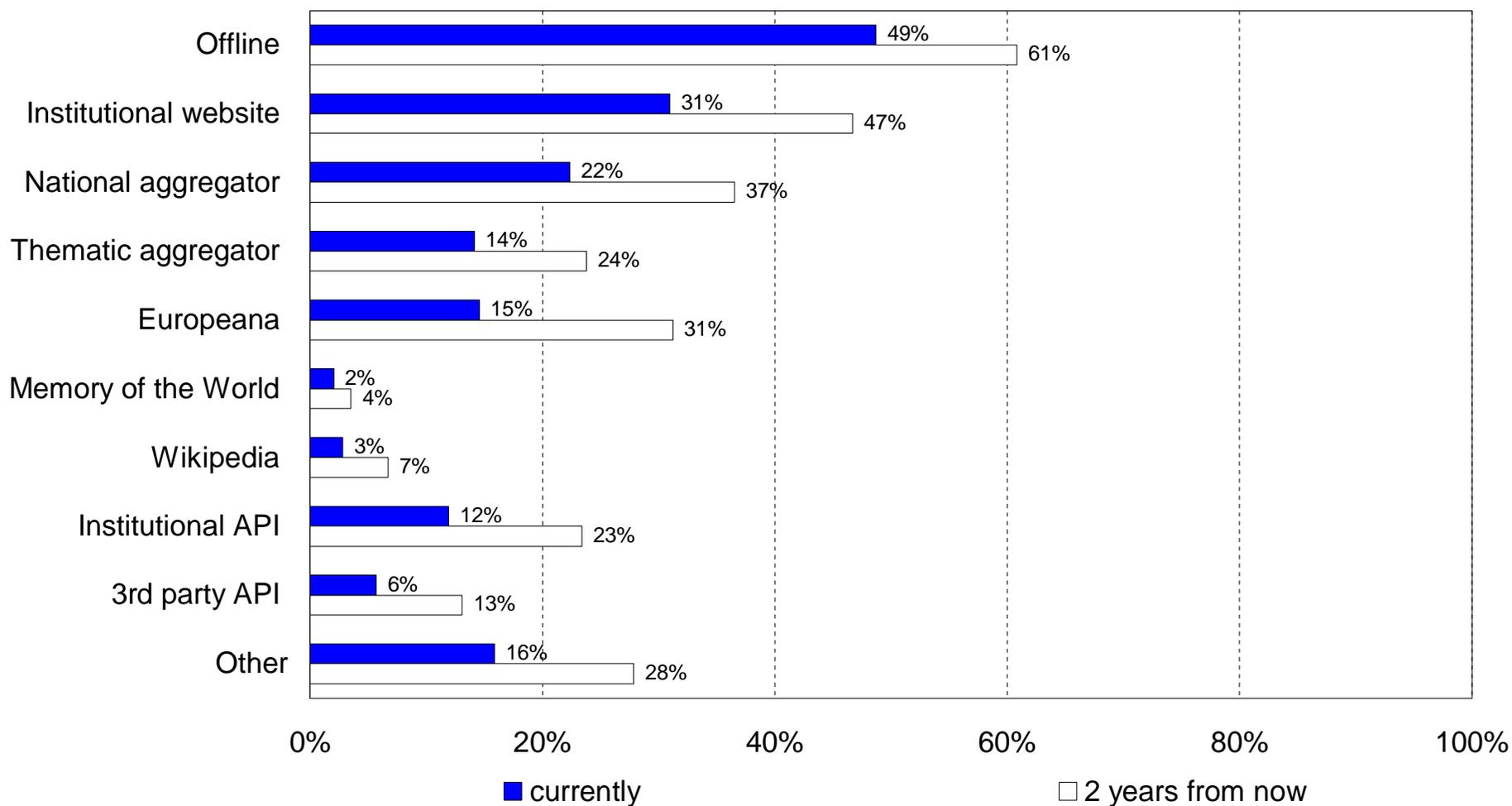
access policies; usage statistics; methodologies

Costs (economics):

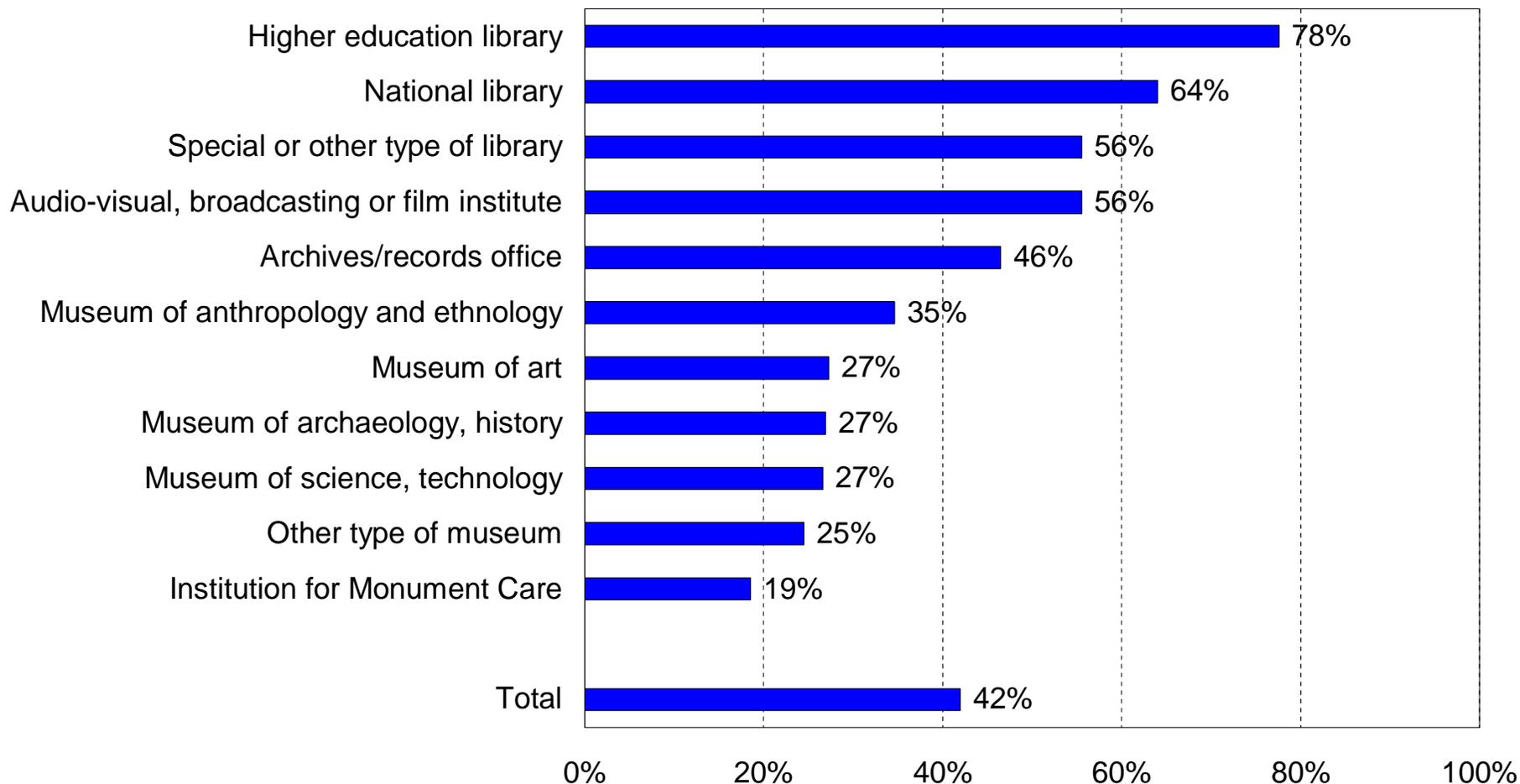
production; management; preservation; inhouse vs. external

Preservation (sustainability):

preservation plans; budgets; tools; partnerships



***Which percentage of the digital collections is accessible through which options?
(n=774)***



Does your organisation measure the number of times digital metadata and/or digital objects are being accessed by your users? (n=1495)

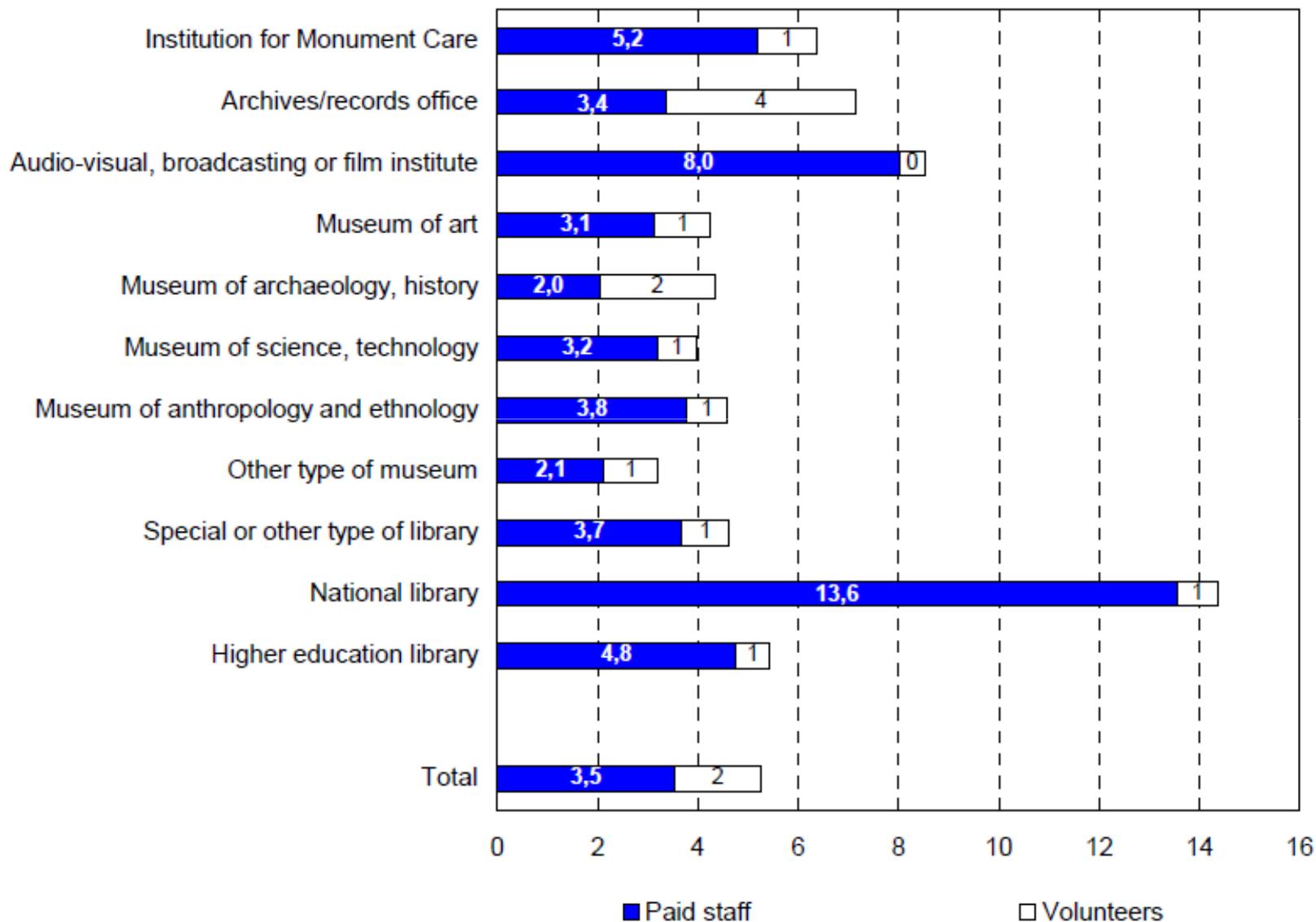


Figure 22: Staff involved in digitisation activities, in FTE (n=1584)

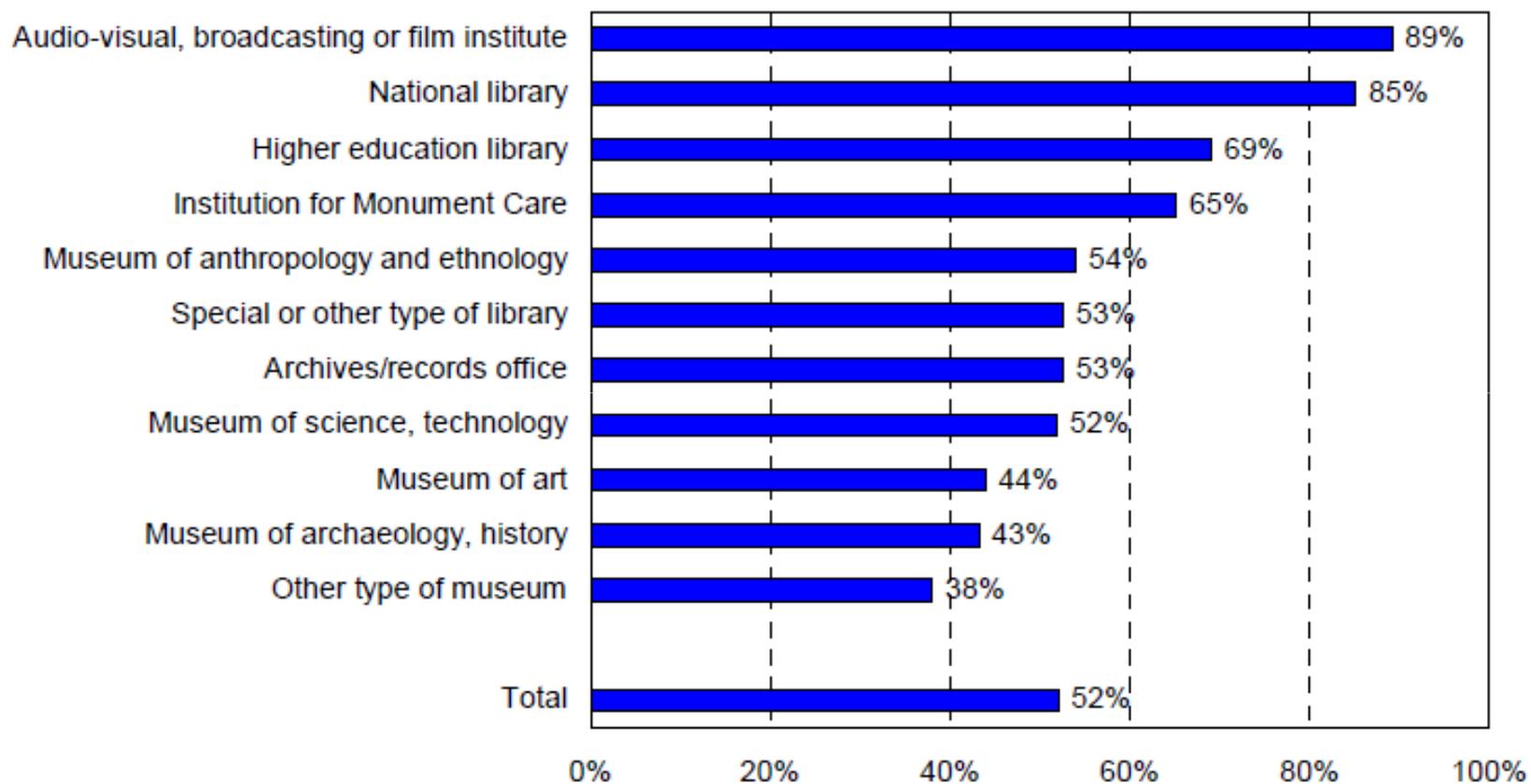
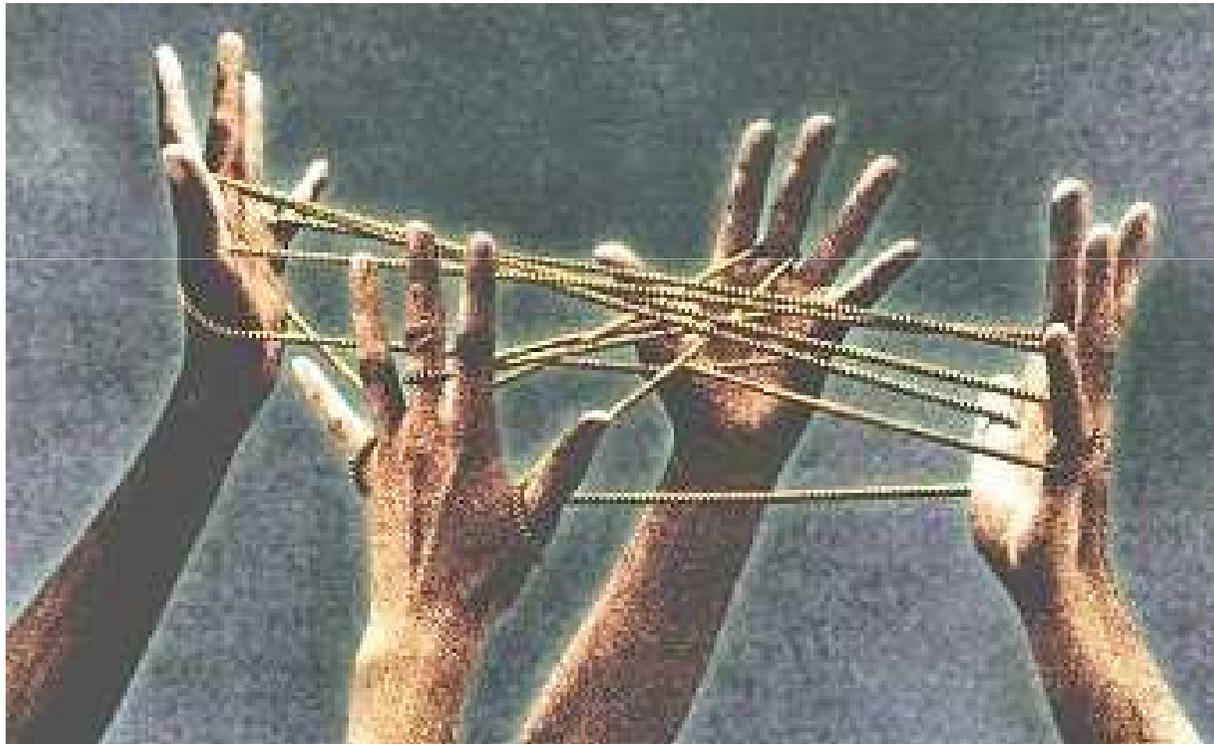


Figure 9: Does your organisation collect born digital heritage? (n=1549)



Share your knowledge on digitisation!



www.den.nl