DigitalPreservationCoalition

Illustration by **Jørgen** Stamp digitalbevaring.dk CC BY 2.5 Denmark

DIGITAL HERITAGE NETWORK

Shared Service and Common Purpose: Digital Preservation as Infrastructure

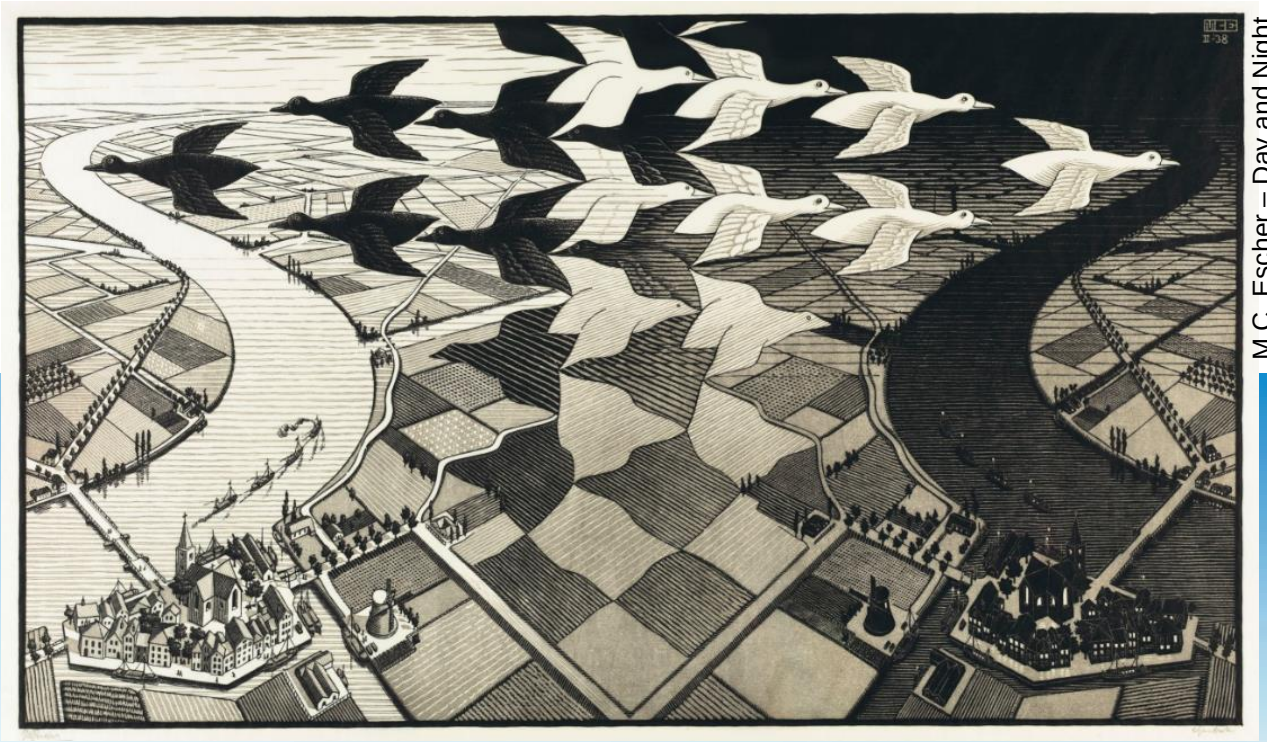
THE IMPORTANCE OF BEING COMPREHENSIVE:

(1) a network of facilities for Digital Preservation
(2) Research Data Management

20th March 2018 | London | Bloomsbury House

Joost van der Nat, Netherlands Digital Heritage Network

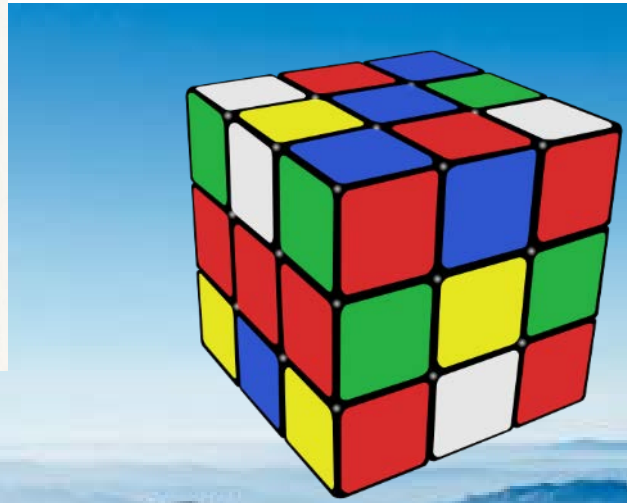
1. Introduction



M.C. Escher – Day and Night

DIGITAL HERITAGE NETWORK

National
Coordination Point
Research Data
Management



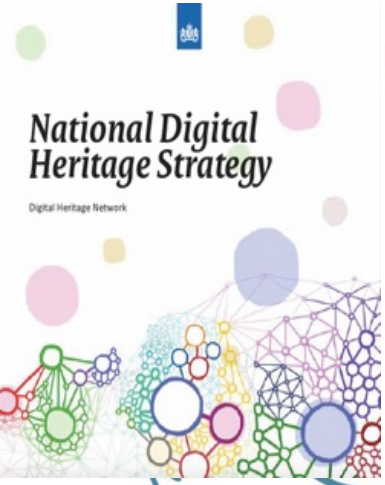
Agenda

1. Introduction
2. DHN Building Blocks model for digital preservation
3. National Coordination Point Research Data Management
4. Synergy

The Dutch Digital Heritage Network

DIGITAL HERITAGE NETWORK

Ministerie van Onderwijs, Cultuur en Wetenschap



The Digital Heritage Network at work

- to increase the **public value**
- establishing ***standardised, cross-sector facilities***
- several ***network principles*** will be determined:
  - use open standards and facilities;
  - reinforce hubs;
  - use 'the most suitable party for the job',
  - provide transparency regarding actions and intentions.
- public value of heritage collections is ultimately determined by their use, ***users must be the focus***
- a ***three-layer model*** (and three work packages)
- structural reinforcement of the ***cooperation between heritage sectors*** and the ***interaction*** between heritage institutions, users, and suppliers.

allocated yearly budget ca. € 1.2 million + in kind from partners / hubs

Results of the Sustainable work package

so far (end 2017)

DIGITAL HERITAGE NETWORK

NCDD
NETHERLANDS COALITION FOR DIGITAL PRESERVATION

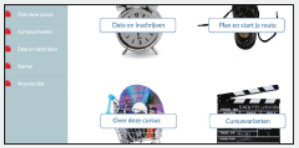
NEW TOOLS & TRICKS FOR SUSTAINED ACCESS TO YOUR COLLECTIONS

Results of the Sustainable Digital Heritage work package

Between 2015 and 2017, the Dutch Heritage Network has delivered a series of digital preservation tools and expertise for digital heritage professionals. Some of them are also available in English.

New online tools

Certification Guide for digital archives
The Certification Guide is a compilation of all existing knowledge and resources (step-by-step plan, real-life examples, translations) concerning the certification process. As such, it supports organisations in professionalizing and certifying their digital archives.
wegwijzercertificering.nl (Dutch language)



Preservation Basics course
With the Preservation Basics course, heritage professionals take their first steps towards the sustainable storage, management and accessibility of digital heritage. You can take classes or choose the free online tutorial. The learning environment is accessible to all.
lerenpreserveren.nl (Dutch language)

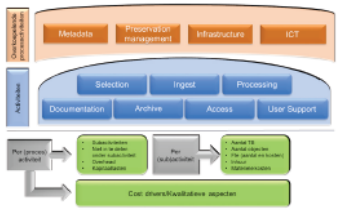
Preservation Policy Catalogue
The Preservation Policy Catalogue helps your organisation draft and implement policies for digital preservation. It provides and explains all the essential policy elements, from a global vision to concrete workflow details.
wiki.ncdd.nl (Dutch language)

Digital Preservation Facilities Finder
The Digital Preservation Facilities Finder shows you which facilities for digital preservation - offered by fellow heritage institutions - your organisation can deploy (e-depot services, tools, assistance, etc.). Thus, we share wherever possible.
voorzieningen.ncdd.nl (Dutch language)

PID Guide: Help with persistent identifiers
Linking a persistent identifier (PID) to a digital object ensures that the object can be found online and prevents link rot. The PID Guide is a web tool that assists organisations in the selection process. It is available in English and also offers FAQs and videos about PIDs.
www.ncdd.nl/en/pid

Reports, models and other initiatives | *ncdd.nl/en/knowledge-and-advice/ncdd-publications*

Cost pricing model
This summary of the cost pricing model provides an initial insight into the cost and cost factors of sustainable access within your organisation.



Cost drivers for digital preservation

PIDs in collection management systems
Institutions can assign PIDs to their objects much more easily because several common collection management systems now have PID functionality.

Digital art
How do we preserve works of art created on CD-ROM? Emulation as a Service is one solution, according to this report.

Software sustainability
This report shows the need for sustainable archiving of software when we aim for sustainable access to digital data.

Web archiving
Thanks to broad collaboration in the field of web archiving, there is now a national register of web archives in place, currently intended for administrators only.

Digital film objects
This report outlines a new workflow for registering and preserving digital film objects (Dutch language).

Web archaeology
A 'Do It Yourself Handbook for Web Archaeology' will be available soon in Dutch. It allows you to 'excavate' and secure digital content by yourself.

The Digital Heritage Network

All tools and knowledge products result from nation-wide collaboration by many heritage institutions in the Netherlands. In the Sustainable Digital Heritage work package, coordinated by the NCDD from September 2015, they aimed to jointly share and develop expertise and facilities concerning sustainable access to the digital heritage of the Netherlands. The ultimate goal is for everyone to be able to use these results and participate in the Network's projects.

For more information, see ncdd.nl/en/ncdd-projects/digital-heritage-network

The Digital Heritage Network will continue to increase the visibility, usability and sustainability of the Dutch digital heritage. Keep an eye on the DEN and NCDD websites to stay connected and keep up to date with the latest news, or sign up for the Digital Preservation Newsletter (Dutch language).

www.den.nl/nde • www.ncdd.nl • www.ncdd.nl/nieuwsbrief

http://www.netwerkdigitaalerfgoed.nl/en/knowledge-services/ 4th entry

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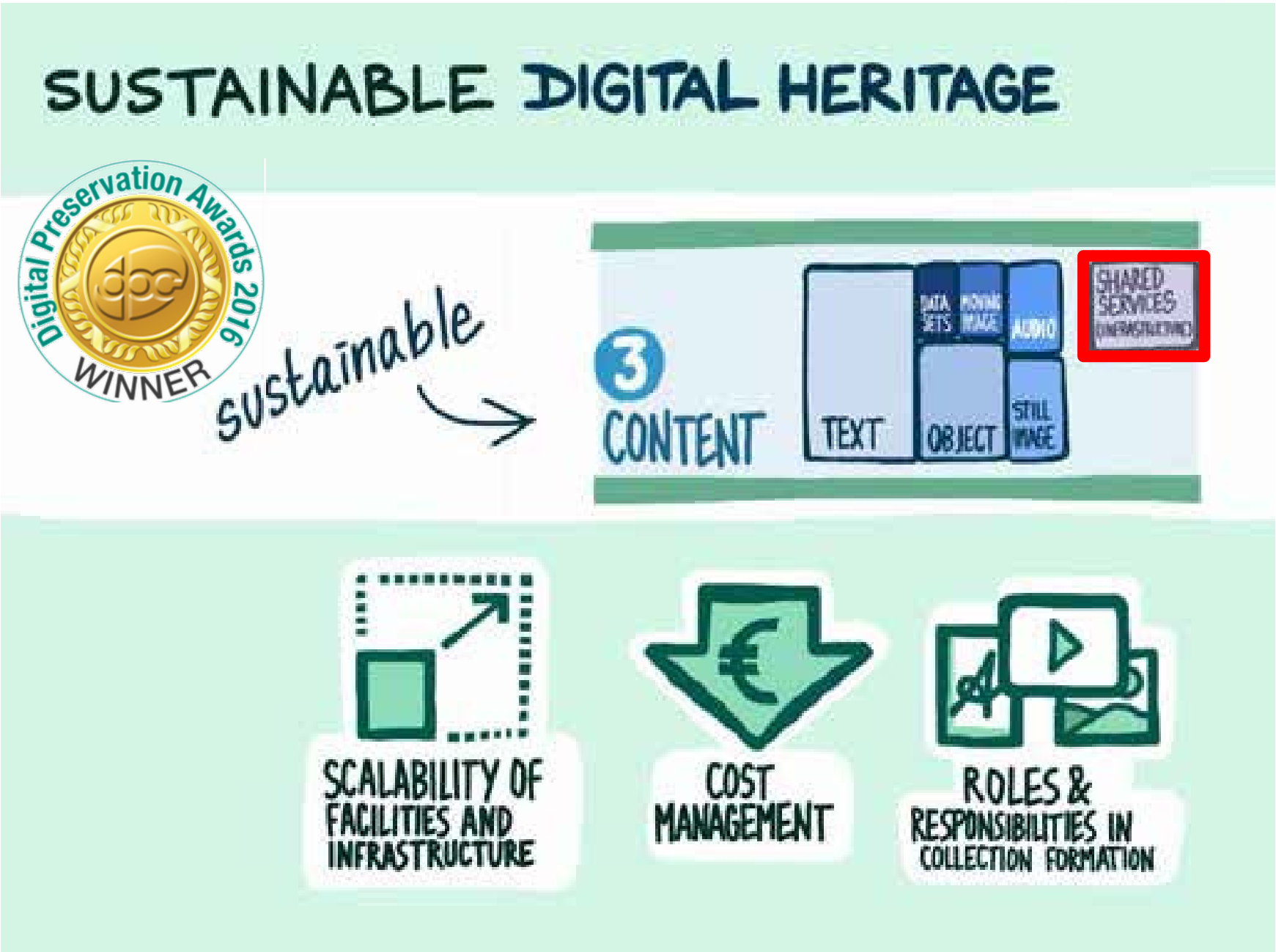
2. Building Blocks Model



DIGITAL HERITAGE NETWORK

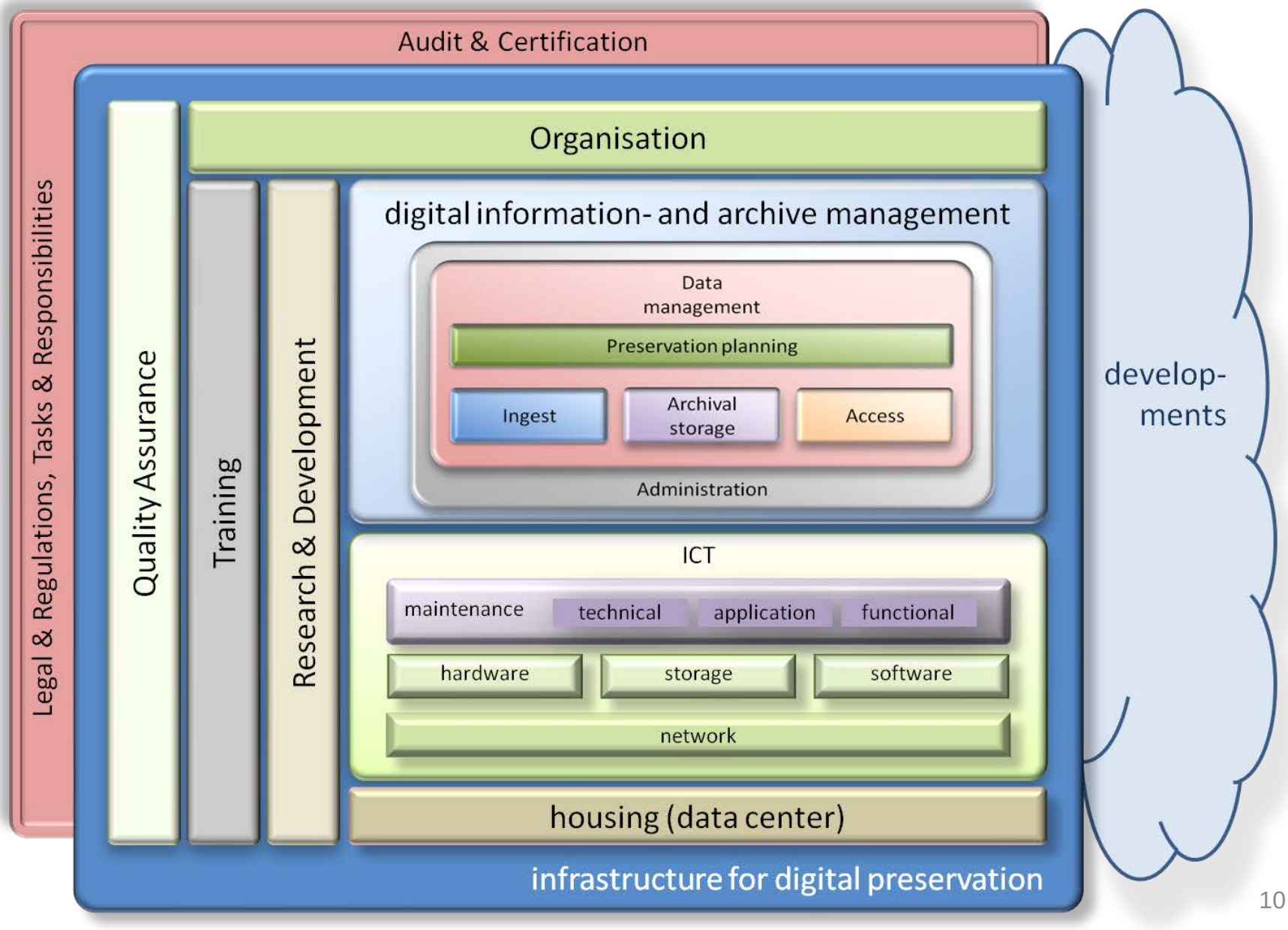
Overall objective of the project

To increase **Effectiveness** and **Efficiency**

The motto is:

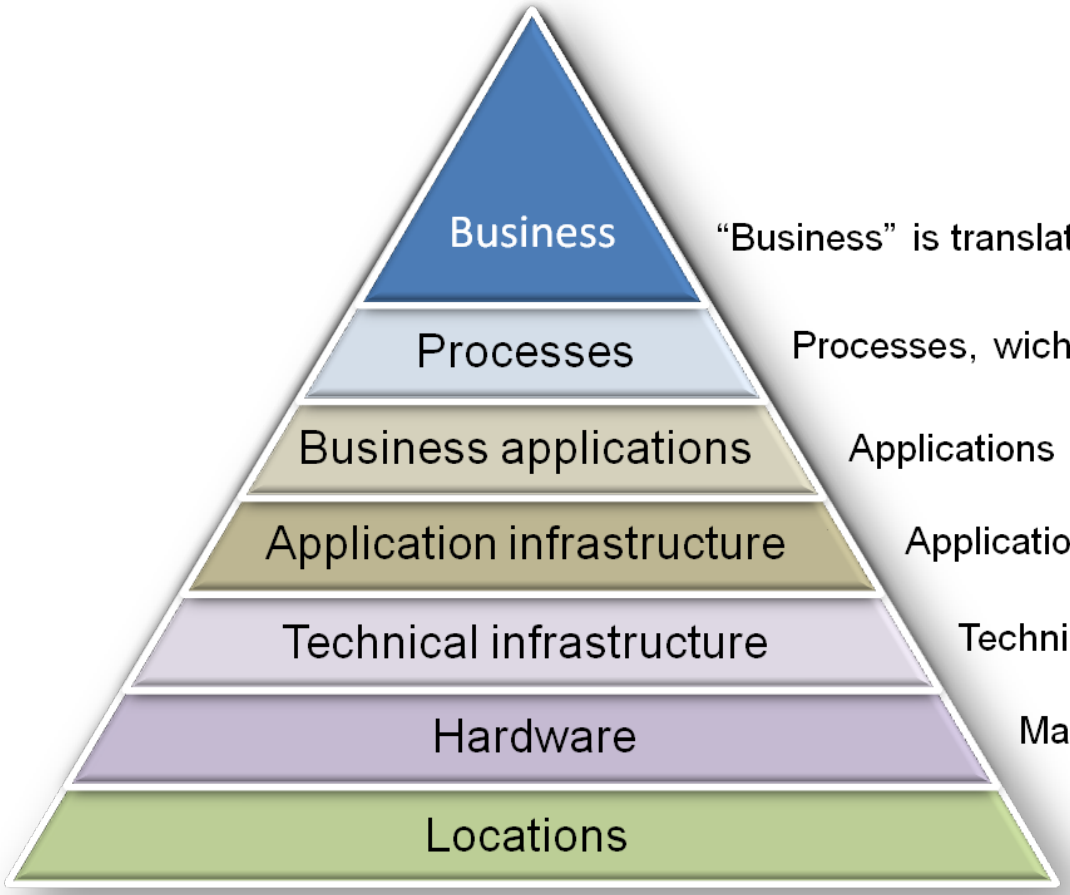
Share what is possible, keep separate what must be separate.

Analytical framework, “infrastructure”



Framework, “Business – IT stack”

Jack van Hoof’s 7 layer IT Services Stack



“Business” is translated into….

Processes, wich are supported by….

Applications & databases, that work in an….

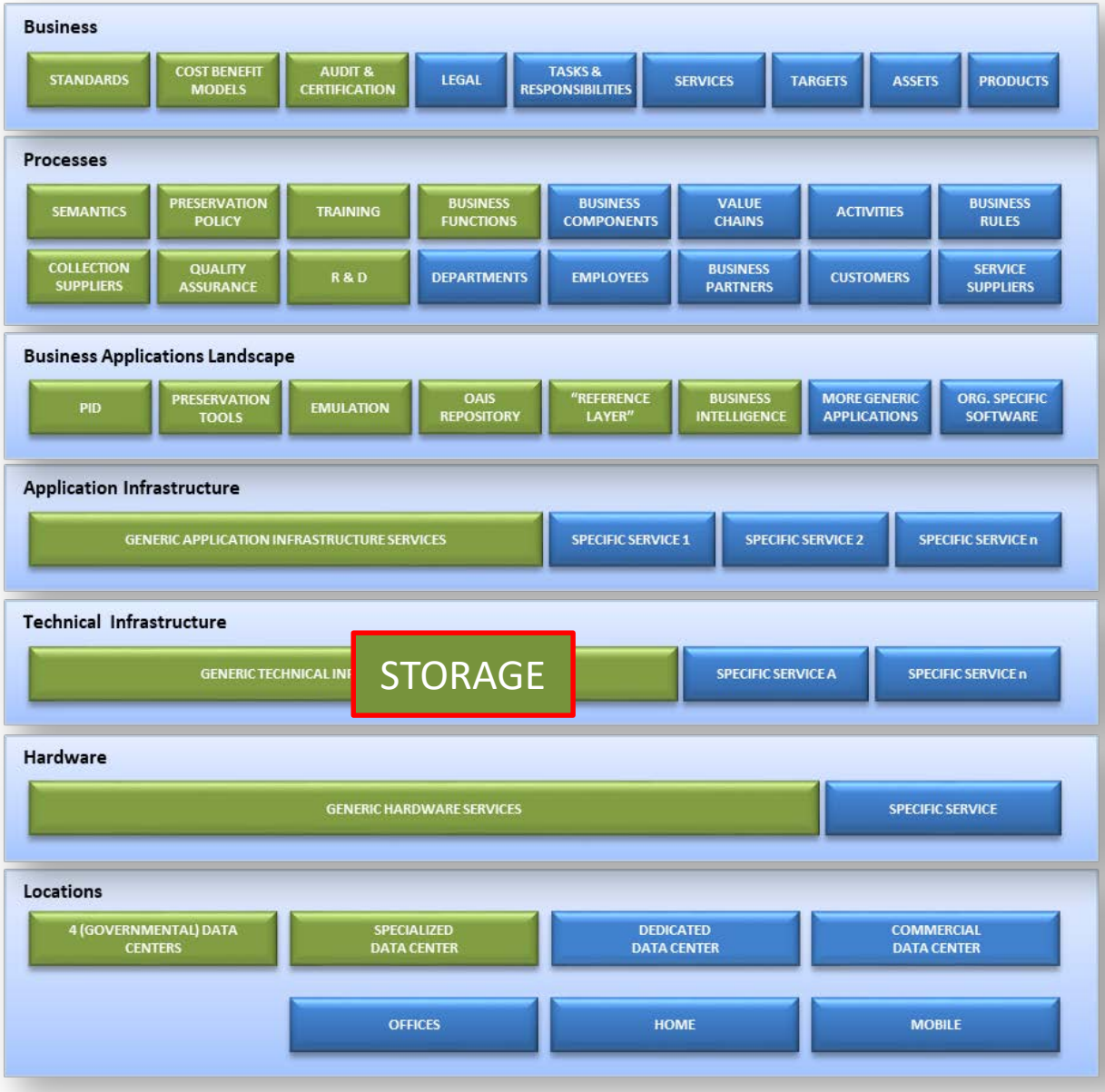
Application infrastructure (servers), that runs on a….

Technical infrastructure (e.g. storage) that consists of….

Machines & networks that connect….

Offices & internet with data centers.

The Building Block Model

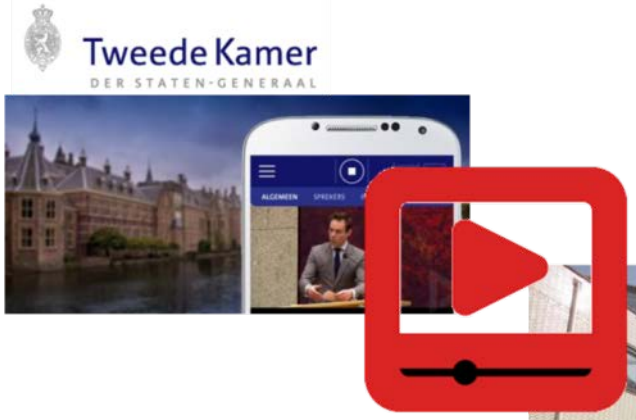


Demand and Supply

Proceedings of the Dutch Parliament

Tweede Kamer
DER STATEN-GENERAAL

Audio-visual proceedings



Dutch Parliament also makes audio-visual proceedings of plenary sessions and committees

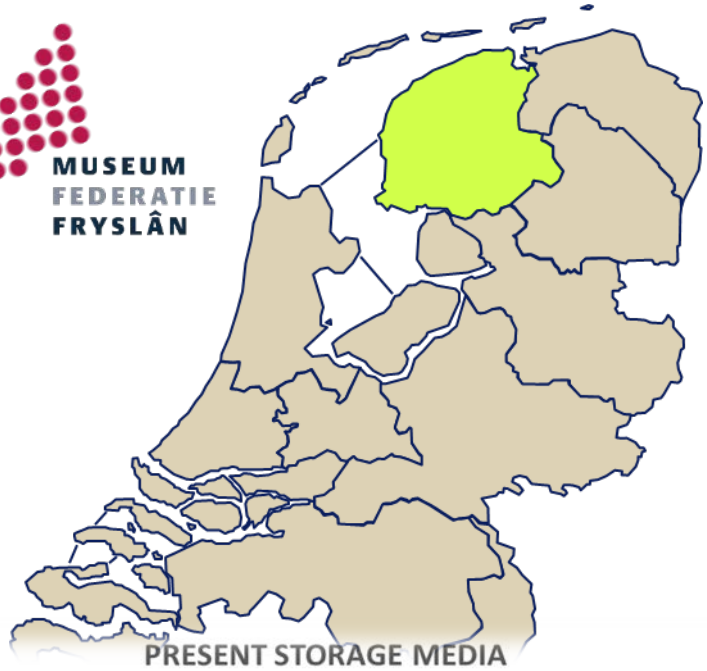
1. National Archive (NA) has the legal duty to store the audio-visual proceedings
2. NA does not have the infrastructure or the expertise for AV material
4. NA keeps Appraisal & Selection and Access

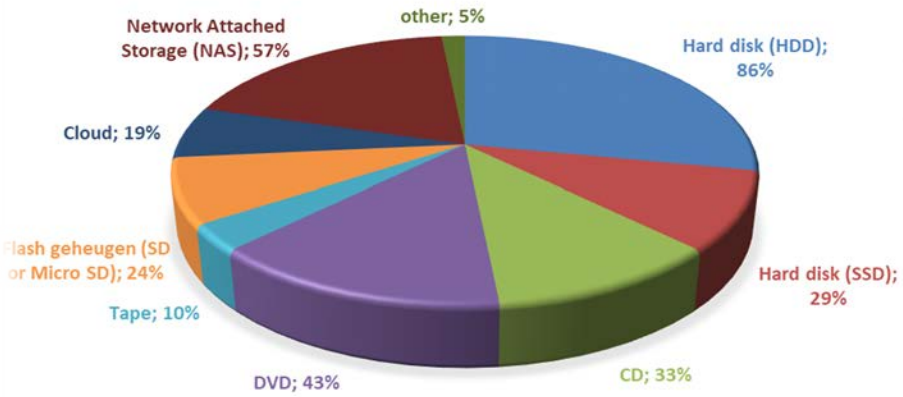
3. The long term Digital Preservation of the audio-visual proceedings is out-sourced to the Dutch Institute of Sound & Vision

DIGITAL HERITAGE NETWORK

Storage and Frysian museums: inventory of the present situation

MUSEUM FEDERATIE FRYSLÂN

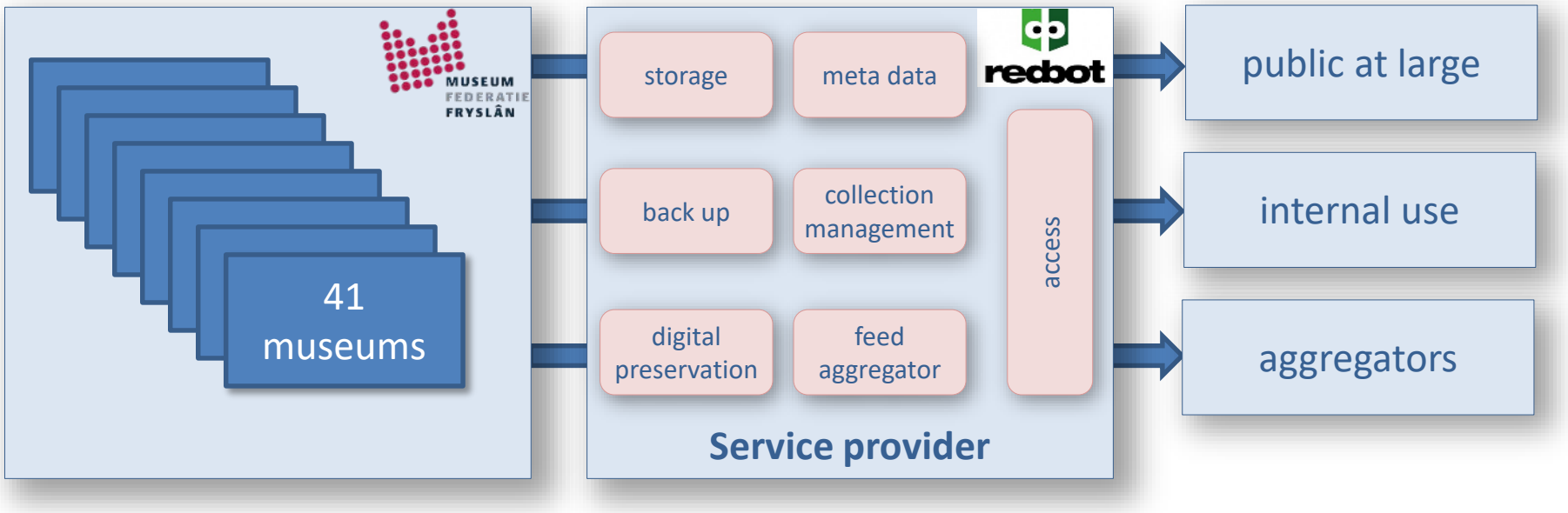




- 41 museums
- 433.606 objects in collections
- 54 % of collection is digitised
  another 34 % to go
- 1,25 Terabyte in size
  expected growth: double in 20 years
- 81 % make back-ups
  1/3 of these back ups in-house
- 33 % take no digital preservation actions
- average spending on Digital Preservation per year: € 1.637
- meta data: not normalised
- feeding to aggregators: only 3 % of objects

DIGITAL HERITAGE NETWORK

Storage and Frysian museums
Near future ?



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Introduction

VSNU: Association of Universities in the Netherlands

National Coordination Point Research Data Management

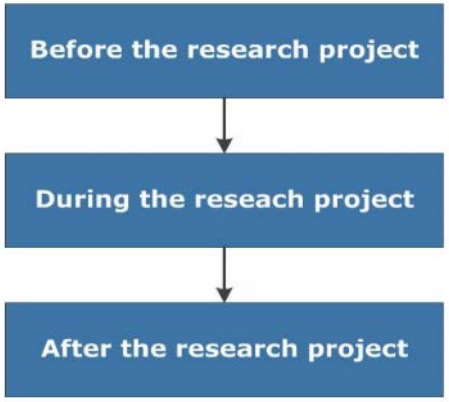
for the benefit of:

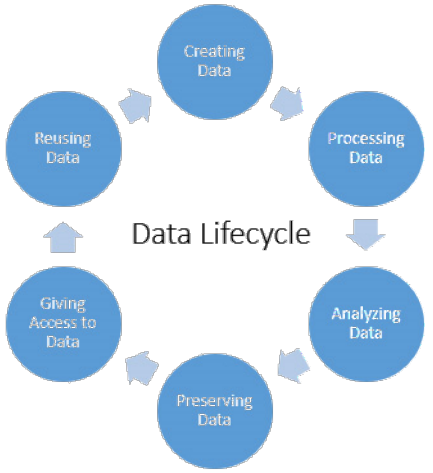
- research
- researcher and research community
- research institution
- research funder
- in the end: policy makers

Cooperation

Coordination

Knowledge sharing





National & International Developments

- Essentials 4 Data Support Training (RDNL)
- EU Presidency 2016 (Amsterdam Call for Action)
- EU General Data Protection Regulation
- National Plan Open Science
- European Science Cloud
- FAIR principle

Essentials 4 Data Support

EU 2016

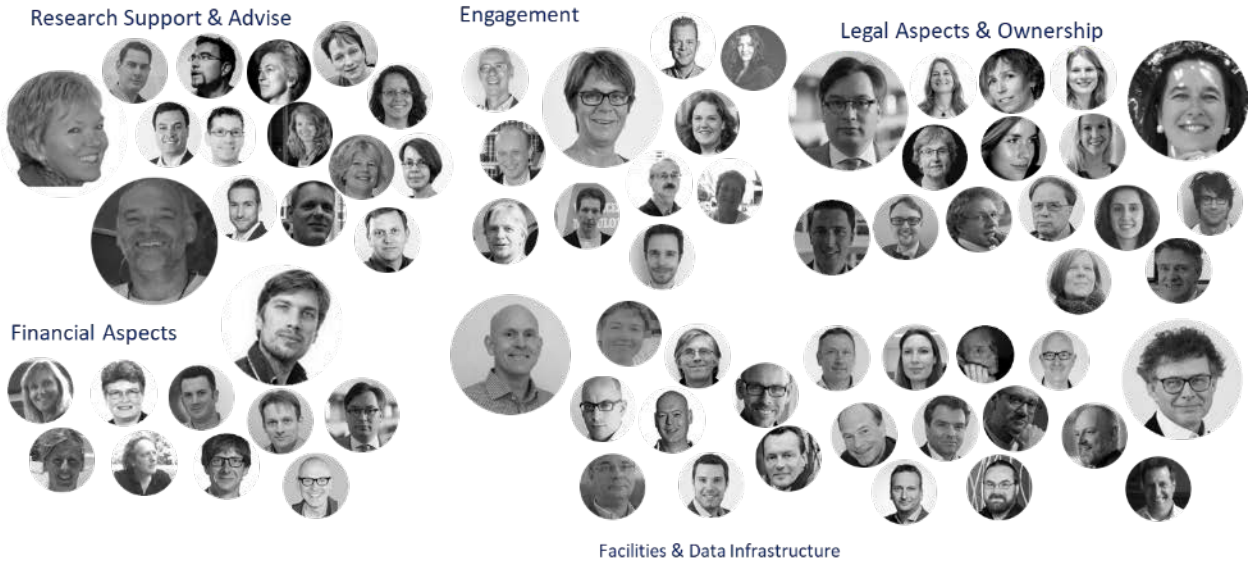
EU General Data Protection Regulation
GDPR

national plan open science

National Coordination RDM approach

- Quick scan (2015-2016): 80+ interviews with RDM experts and stakeholders => Roadmap (Dec. 2015) => **5 focal points**
- Each focal point → working group (2016 – 2017)

Legal Issues & Ownership	Facilities & Data Infrastructure	Financial Aspects of RDM	Research Support & Advise	Engagement



40 products:

inventories, advices, tools, models, reference cards etc. delivered in 2016-2017

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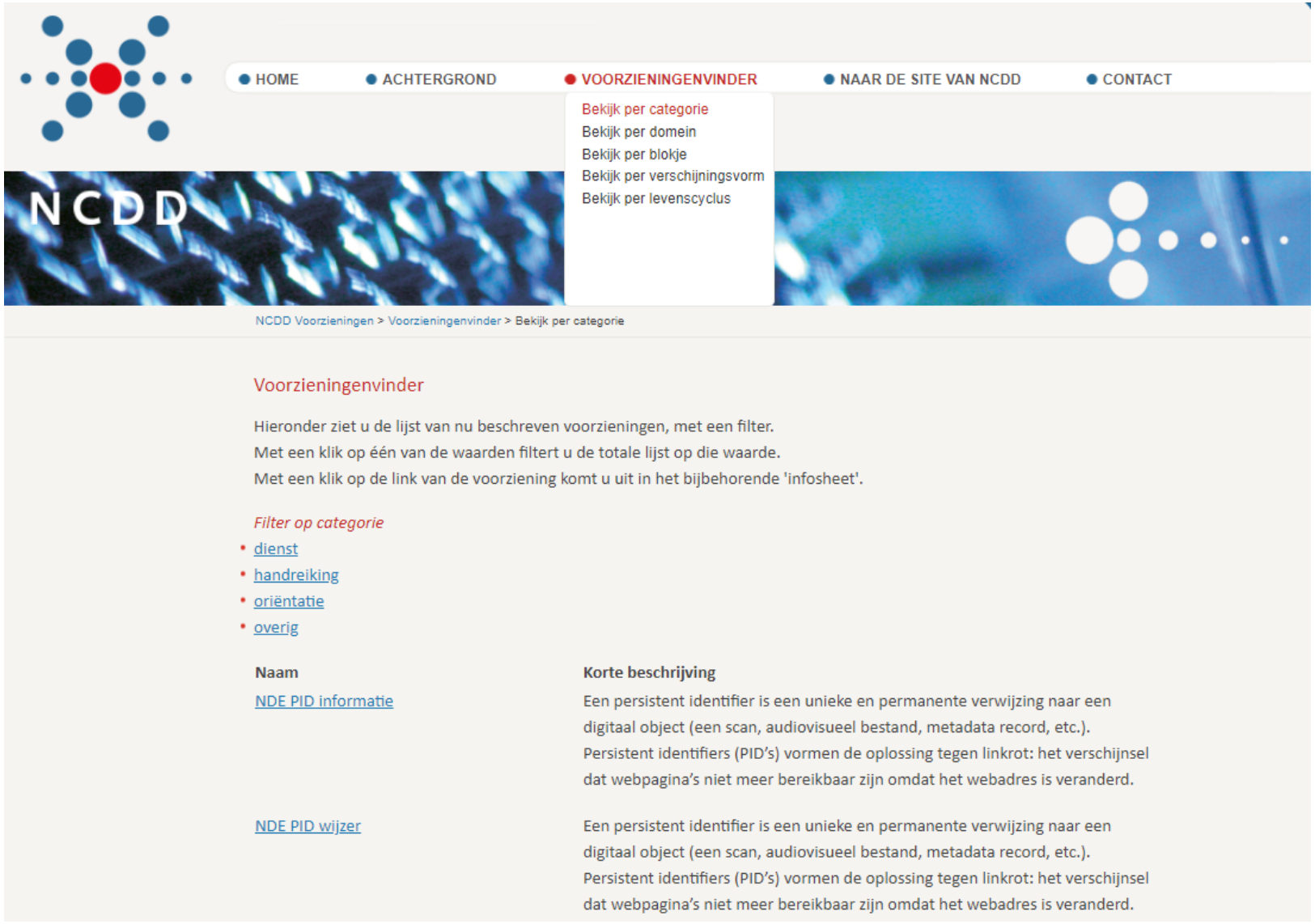
Service Catalogue for DHN (in beta)



Dutch only: http://voorzieningen.ncdd.nl/

Service Catalogue for DHN (info sheet)

NCDD Voorzieningen > Voorzieningenvinder > Bekijk per categorie > NCDD.A2.1

Algemene informatie

naam:
NDE PID informatie

korte beschrijving:
Een persistent identifier is een unieke en permanente verwijzing naar een digitaal object (een scan, audiovisueel bestand, metadata record, etc.). Persistent identifiers (PID's) vormen de oplossing tegen linkrot: het verschijnsel dat webpagina's niet meer bereikbaar zijn omdat het webadres is veranderd.

beschikbaar sinds / per:
2016

voorziening is een:
dienst

corresponderend "blokje":
Persistent Identifier

leverende organisatie:
NCDD / NDE

adres organisatie:
Prins Willem Alexanderhof 5, 2595 BE Den Haag

URL:
http://www.ncdd.nl/projecten/netwerk-digitaal-erfgoed/project-persistent-identifiers/

taal van de voorziening:
Nederlands

LCRDM Services Catalogue (in beta)

Landelijk Coördinatiepunt Research Data Management

Home RDM begrippenlijst Blog Forum LCRDM.nl Besloten

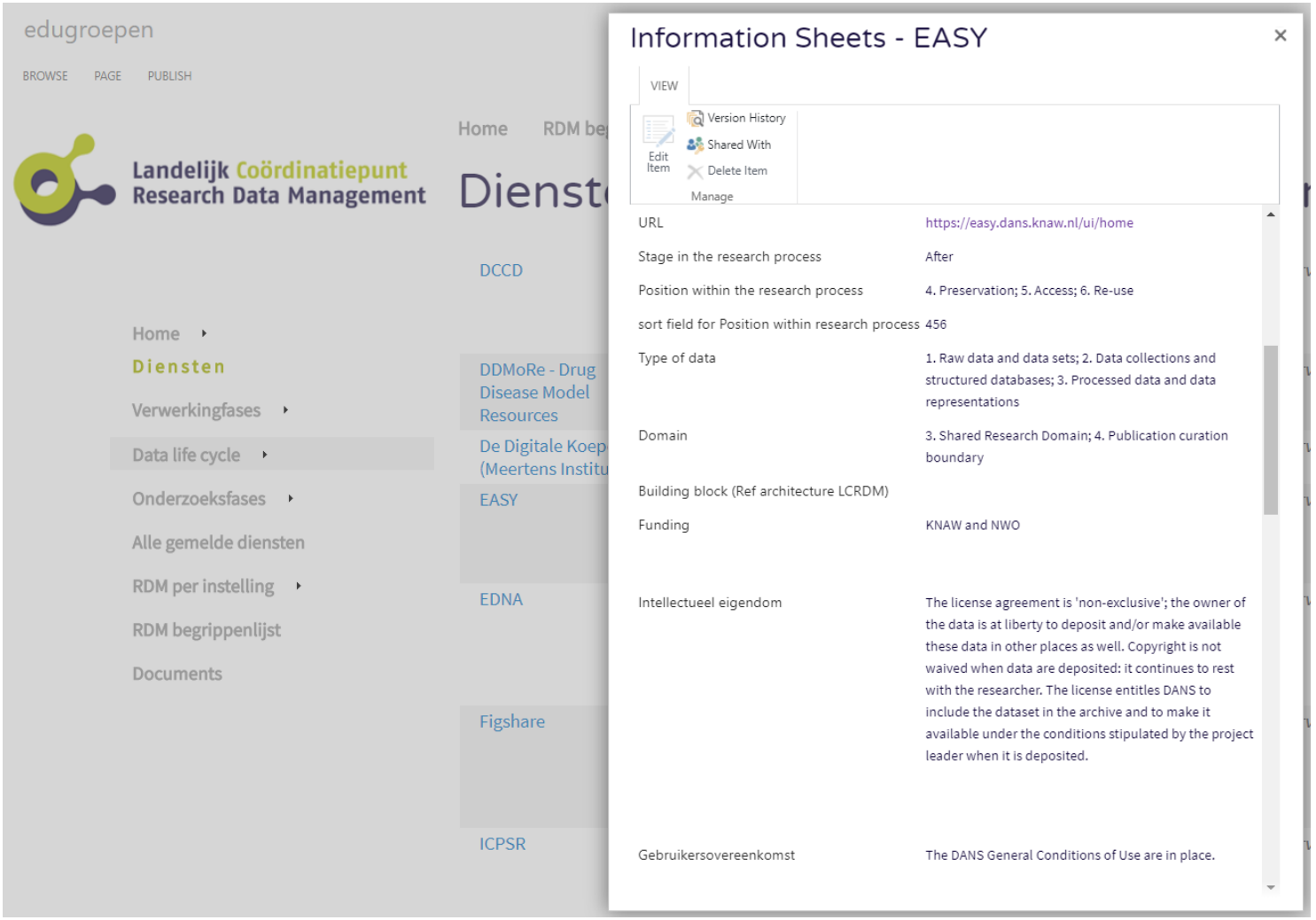
Diensten bij databehoud (preservation)

Home
Diensten
Verwerkingfases
Data life cycle
Onderzoeksfases
Alle gemelde diensten
RDM per instelling
RDM begrippenlijst
Documents

DCCD	NL	Integration with EASY (DSA) is under investigation.	1. Dendrochronology 2. Archaeology, Biology	*4. Preservation, 5. Access, 6. Re-use*	2. Data collections and structured databases, 3. Processed data and data representations, 4. Publications with data
DDMoRe - Drug Disease Model Resources	NL	-	industry, regulatory agencies, health care providers and academic teaching and research programmes	*4. Preservation, 5. Access, 6. Re-use*	3. Processed data and data representations
De Digitale Koepel (Meertens Instituut)	NL	DSA certified	1. Linguistics; History 2. Literary Studies; Psychology	*4. Preservation, 5. Access, 6. Re-use*	2. Data collections and structured databases
EASY	NL	DSA certified	1. Humanities and social sciences 2. Researchers of all kinds of scientific disciplines	*4. Preservation, 5. Access, 6. Re-use*	1. Raw data and data sets, 2. Data collections and structured databases, 3. Processed data and data representations
EDNA	NL	DSA certified	Archaeology	*4. Preservation, 5. Access, 6. Re-use*	1. Raw data and data sets, 2. Data collections and structured databases, 3. Processed data and data representations, 4. Publications with data
Figshare	EU			*4. Preservation, 5. Access, 6. Re-use*	1. Raw data and data sets, 2. Data collections and structured databases, 3. Processed data and data representations, 4. Publications with data
ICPSR	EU	DSA certified	Political and Social Research	*4. Preservation, 5. Access, 6. Re-use*	1. Raw data and data sets, 2. Data collections and structured databases, 3. Processed data and data representations, 4. Publications

https://www.edugroepen.nl/sites/RDM_platform/Dienstencatalogus/_layouts/15/start.aspx#/SitePages/Dienstencatalogus.aspx

LCRDM Services Catalogue (info sheet)



Wrap up

- Be comprehensive in your approach
  - there are more building blocks than “Storage” alone as far as Infrastructure is concerned
  - there is more than Infrastructure to be shared (i.e. the 5 aspects of LCRDM)
- Making Demand meet Supply is the goal
- Community building is KEY
- Articulate Demand, articulate Supply to a required (matchable !) level of detail
- DPC, Jisc, DHN, LCRDM et cetera are the **brokers** that facilitate sharing & cooperation

More information

This presentation contains slides and elements of LCRDM presentations by Ingeborg Verheul

Digital Heritage Network website (in English)	http://www.netwerkdigitaalerfgoed.nl/en/
Digital Heritage Network, the movie	https://www.youtube.com/watch?v=8XrsVqr2e6w
Digital Heritage Network Strategy (in English, PDF)	http://www.den.nl/art/uploads/files/Publicaties/20150608_National_e_strategie_digitaal_erfgoed_Engels.pdf
Results DHN Work Package Sustainable 2016 – 2017	http://www.netwerkdigitaalerfgoed.nl/en/knowledge-services/ 4th entry Tools and tricks for sustained access to your collections
English summary of Building Blocks report	http://www.netwerkdigitaalerfgoed.nl/en/knowledge-services/ 5th entry Together where possible, individually where necessary.
LCRDM website (in English)	https://www.surf.nl/en/lcrdm
Digital Heritage Network: • *Programme Manager Sustainable* **Marcel Ras** marcel.ras(at)kb.nl +316 1477 7671 • *Researcher:* **Joost van der Nat** jvdnat(at)snpbv.nl +316 5204 8788	National Coordination Point Research Data Management: • *National Coordinator RDM* **Ingeborg Verheul** Ingeborg.Verheul(at)surfsara.nl

Questions ?