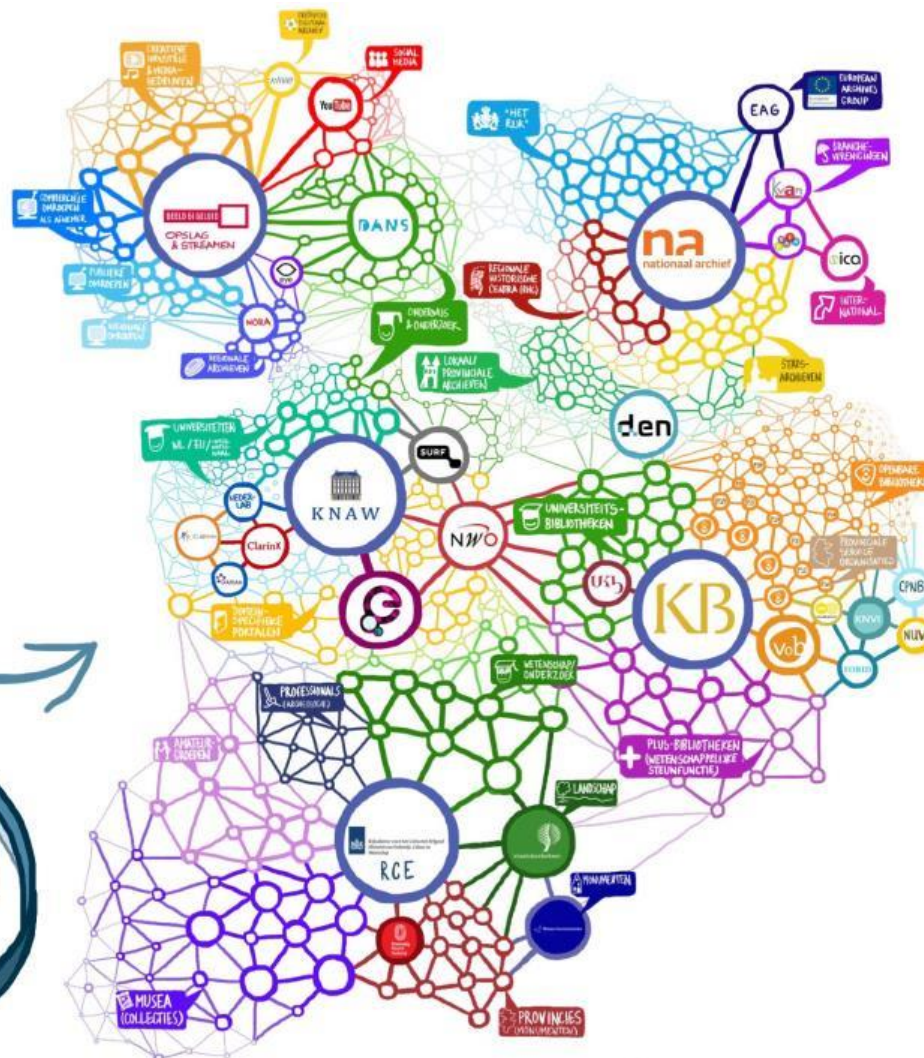


The Dutch Case

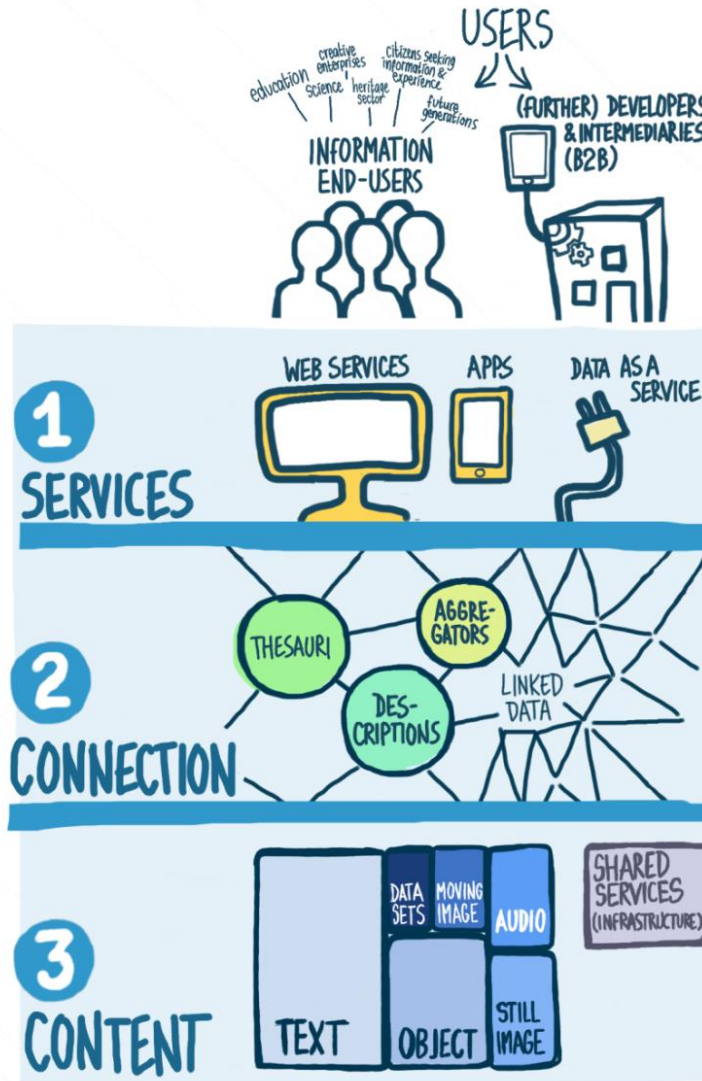
A new approach to aggregation

Wilbert Helmus (wilbert.helmus@den.nl)
Enno Meijers (enno.meijers@kb.nl, @ennomeijers)



2015:
National Strategy Digital Heritage





Workpackages:

1. Visibility
2. Usability
3. Sustainability



and a revolution...

Platform Software Producers

- > **Domeincoördinatoren**
- > Consortium
- > Contact

Domeincoördinatoren

Afhankelijk van onder welk domein je instelling valt kun je contact opnemen met onderstaande domeincoördinatoren die je kunnen informeren over, en assisteren bij het aansluiten van je collectie op de Digitale Collectie.

Archieven

Wim van Dongen is domeincoördinator archieven. Hij is werkzaam bij het Nationaal Archief en als country manager Nederland, country manager coördinator en technisch coördinator verbonden aan de Archives Portal Europe Foundation (APEF, de stichting die het **Archieven Portaal Europa** beheert). Wim kan helpen informatie over je archieven op te nemen in het Archieven Portaal Europa en via dat portaal aan te laten sluiten bij andere aggregatoren, waaronder Digitale Collectie.



E: wim.van.dongen@nationaalarchief.nl
T: 06 – 55 267 874

Bibliotheken

Roosmarijn de Groot is domeincoördinator bibliotheken, werkzaam bij de Koninklijke Bibliotheek. Digitale bibliotheekcollecties kun je bij Roosmarijn aanmelden. Vervolgens adviseert zij over de route voor aansluiting van collecties op het landelijke netwerk (via **Delpher**) en beantwoordt zij klantvragen van afnemers van geaggregeerde data. Ook plannen voor digitalisering van collecties zijn van harte welkom. We geven graag advies over hoe aansluiting op landelijke infrastructuur al bij planvorming kan worden meegenomen en denken graag mee over mogelijkheden voor samenwerking en financiering.



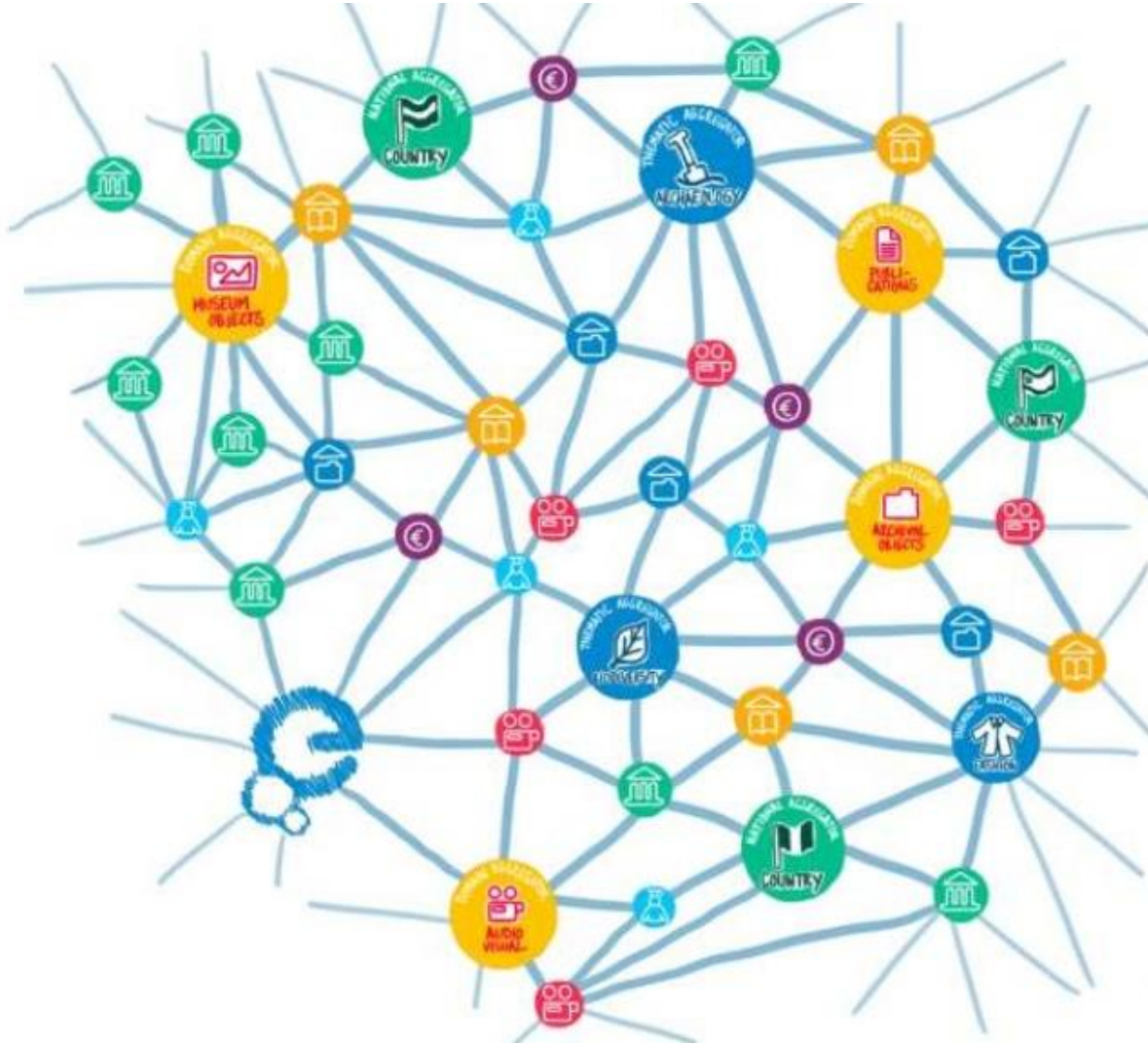
Archief

- > februari 2016
- > oktober 2015
- > juli 2015
- > april 2015
- > maart 2015
- > januari 2015
- > december 2014
- > november 2014
- > februari 2011

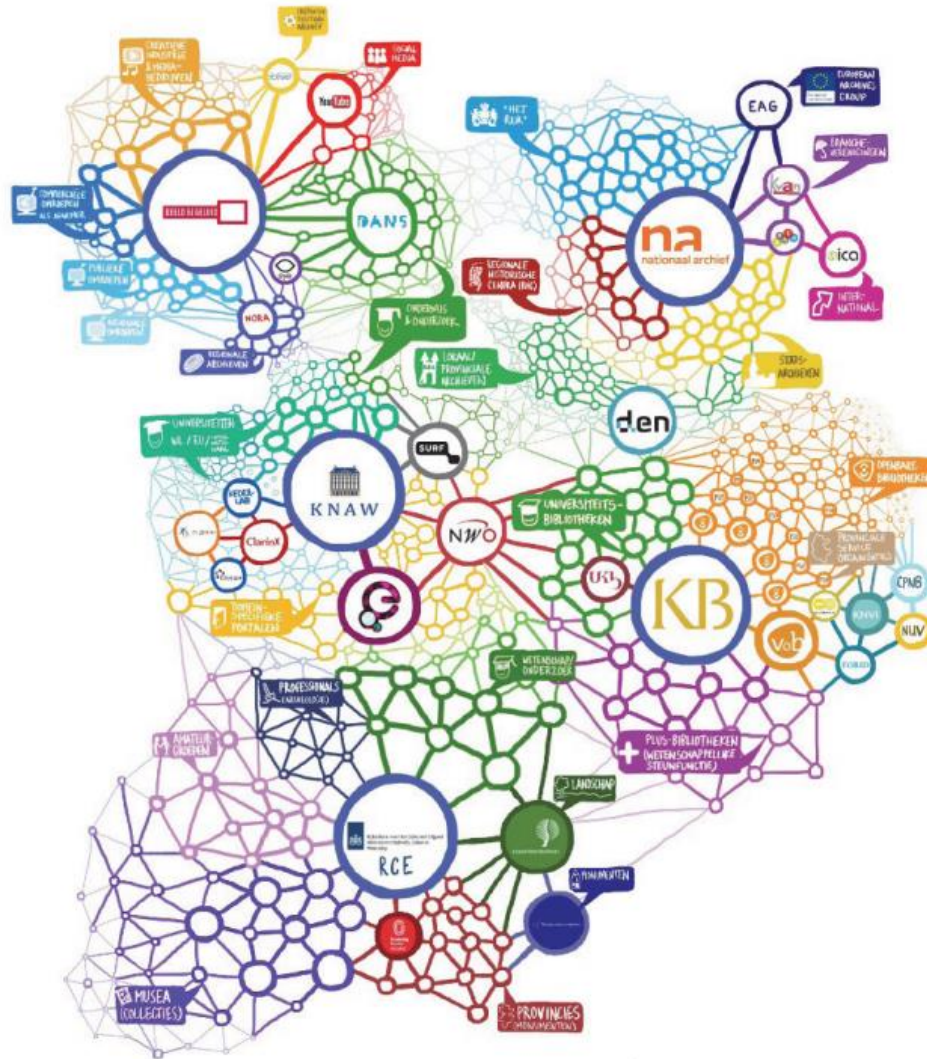
Tags

casestudies clicknl collectie
collectiedag DEN
digitaal
erfgoed digitale
digitale
collectie
enquête
europeana
europeana v3 event
NCDD onderzoek rapporten
statistieken survey uitgelicht
week

The human factor
(organisational aspects...)



*The challenge of
aggregating Digital
Heritage information*

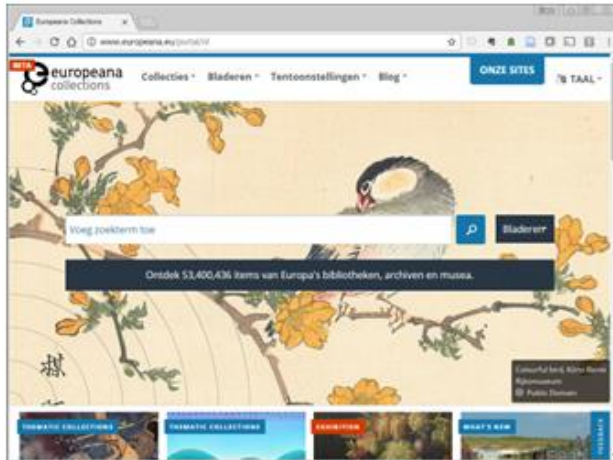
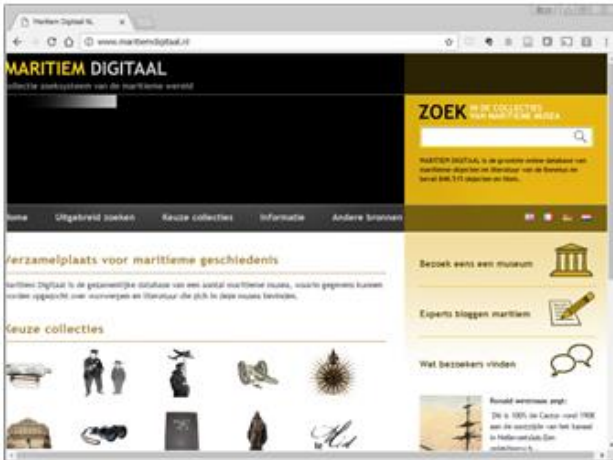
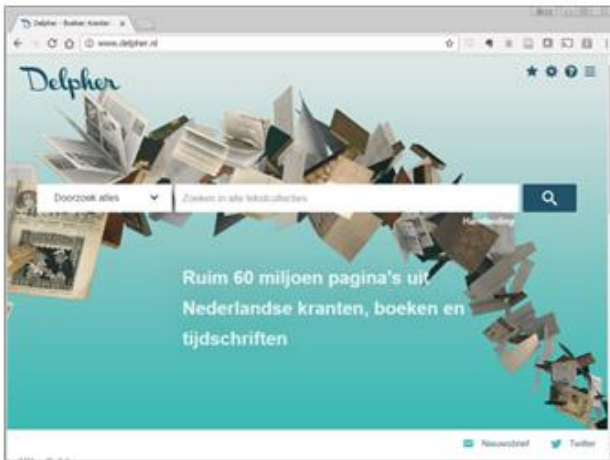


This sounds/looks familiar!

NDE aims at increasing the social value of digital heritage by making it more visible, usable and sustainable.

Problems current infrastructure...

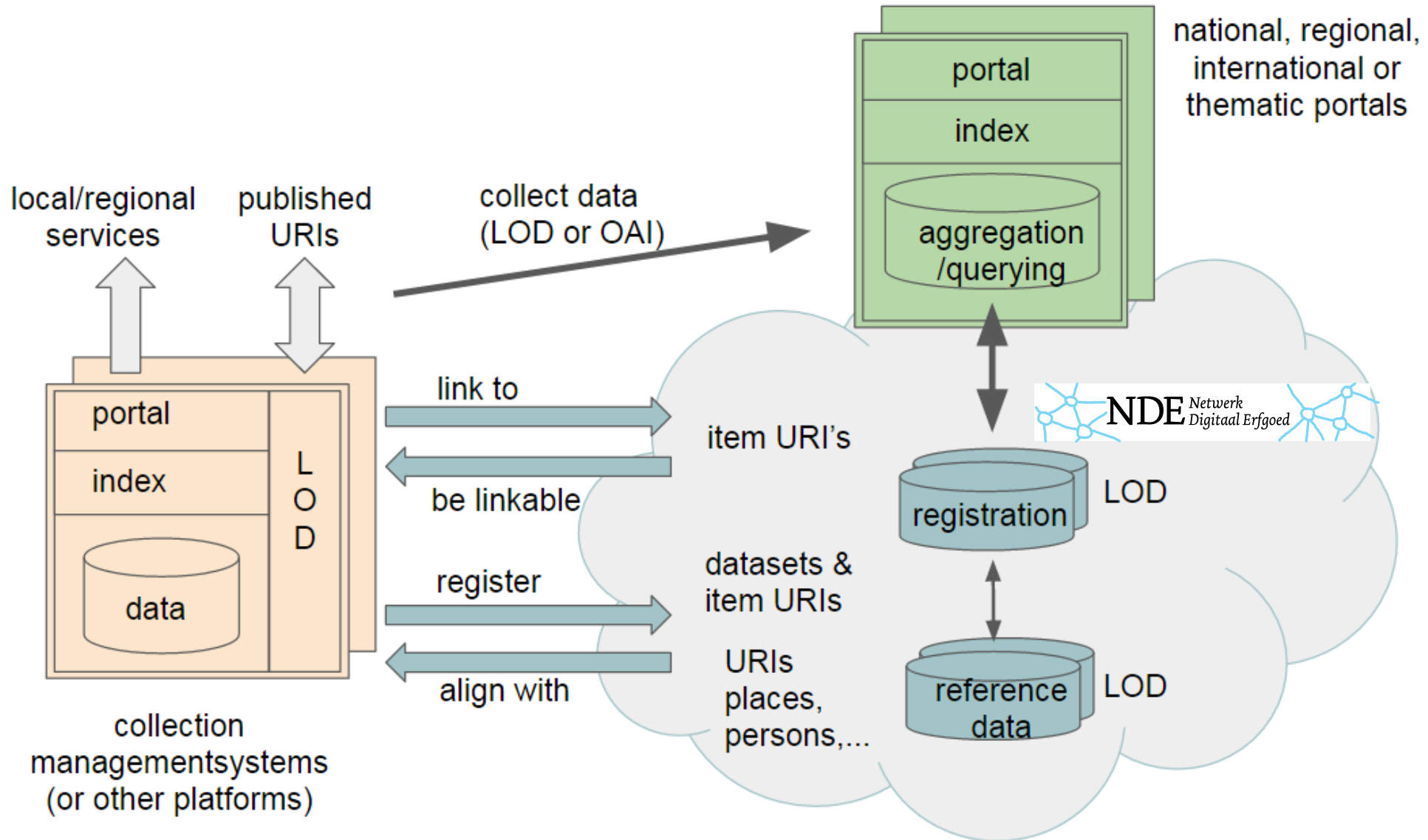
- OAI-PMH based: so COPY and process...
- no clear definitions of collections, organizations
- no clear identifier schemes, limited use of formalized terms
- multiple aggregation routes for different purposes (thematic, regional, domain)
- silo based platforms with integrated aggregation and user services
- data owners not happy about visibility, quality, provenance, usability
- limited possibilities for cross-domain, cross-material views



NDE's approach on aggregation

- focus on registering instead of aggregation:
 - collections (= datasets), terminology sources, objects
- refer to the source instead of copying the data
- selective aggregation/indexing/querying based on user demands
- encourage the use of formal definitions ('who, where, what, when')
 - build a Knowledge Graph for Digital Heritage
 - record the URI instead of copying the string
- adoption of Linked Data technologies
 - publish collection data as Linked Open Data (build open data registries)
 - support data owners for publishing their data as linked data (cooperate with suppliers)

Register before aggregation



Described in DERA 1.0 : Digitaal Erfgoed Referentie Architectuur

Step by step approach

Step 1: move central systems to LOD

- aggregators publish datasets as LOD
- reference sources openly available as LOD
- aggregators feed the registry
- service portals use registry & aggregated data



Step 2: synchronize local systems

- local systems use formal reference sources
- local adoption of formal identifiers
- aggregators feed the registry
- service portals use registry & aggregated data



Step 3: move local systems to LOD

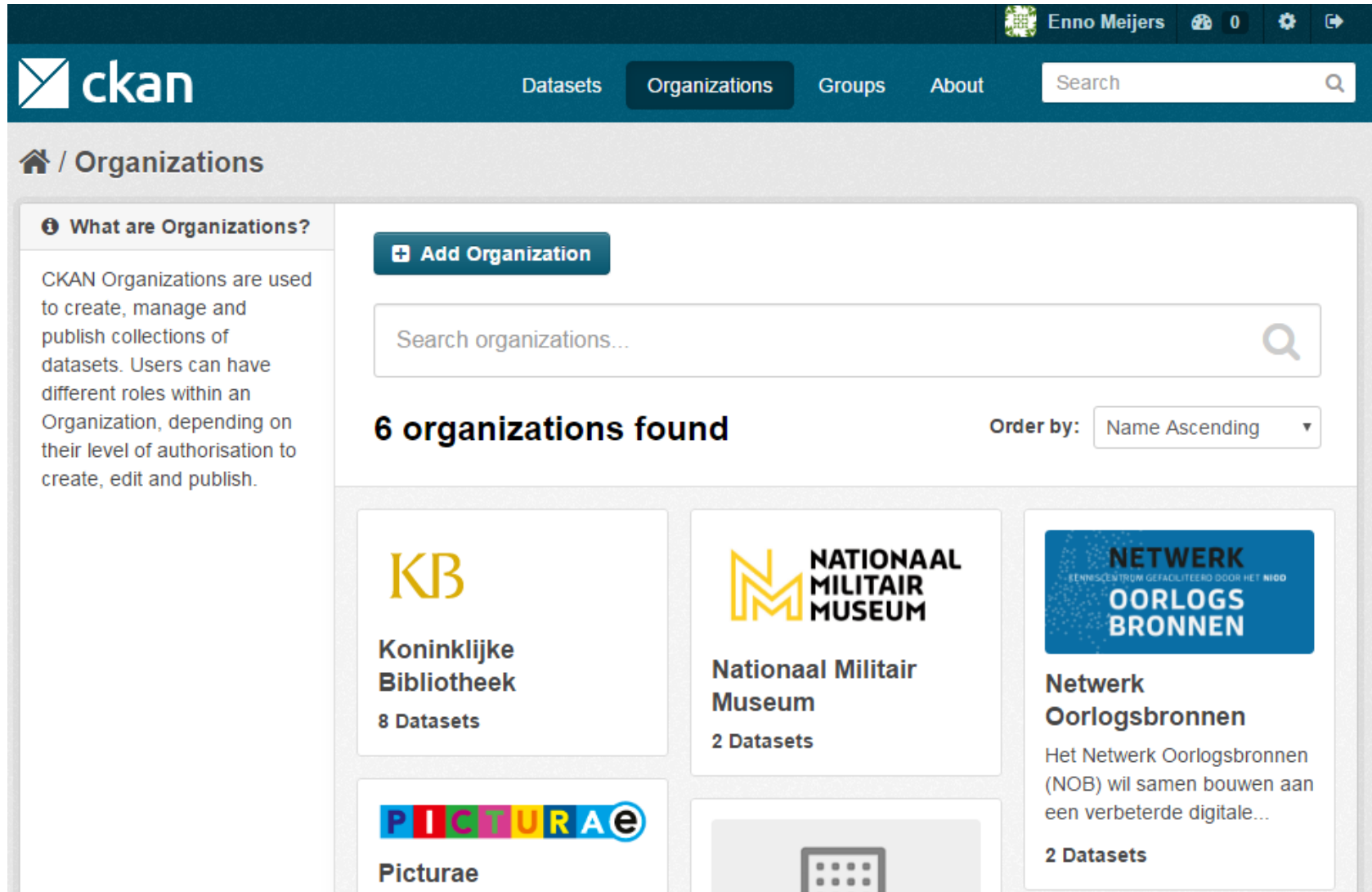
- local systems publish datasets as LOD
- local systems feed the registry
- service portals use registry & aggregated LOD data




Step 4: LOD enabled network

- local systems feed the registry
- local systems support distributed querying
- service portals query local LOD data
- aggregators become service portals

Central registry for datasets, terminology sources and links to objects.

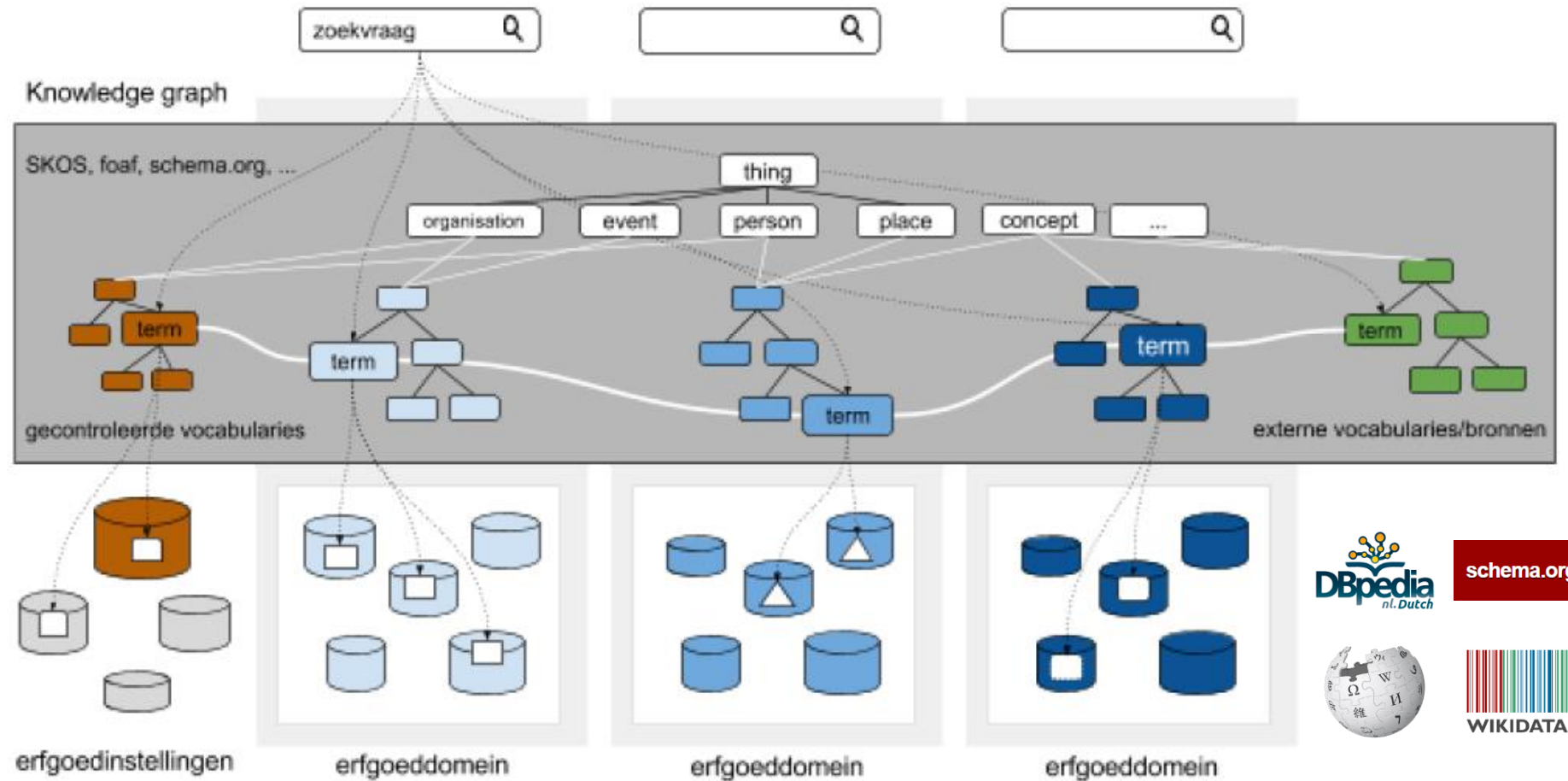


The screenshot shows the CKAN 'Organizations' page. The top navigation bar includes 'ckan', 'Datasets', 'Organizations' (selected), 'Groups', 'About', and a search bar. The user 'Enno Meijers' is logged in. The main heading is 'Organizations'. A sidebar on the left titled 'What are Organizations?' explains that CKAN Organizations are used to create, manage, and publish collections of datasets. The main content area features a '+ Add Organization' button, a search bar, and a list of 6 organizations found, ordered by Name Ascending. The organizations listed are:

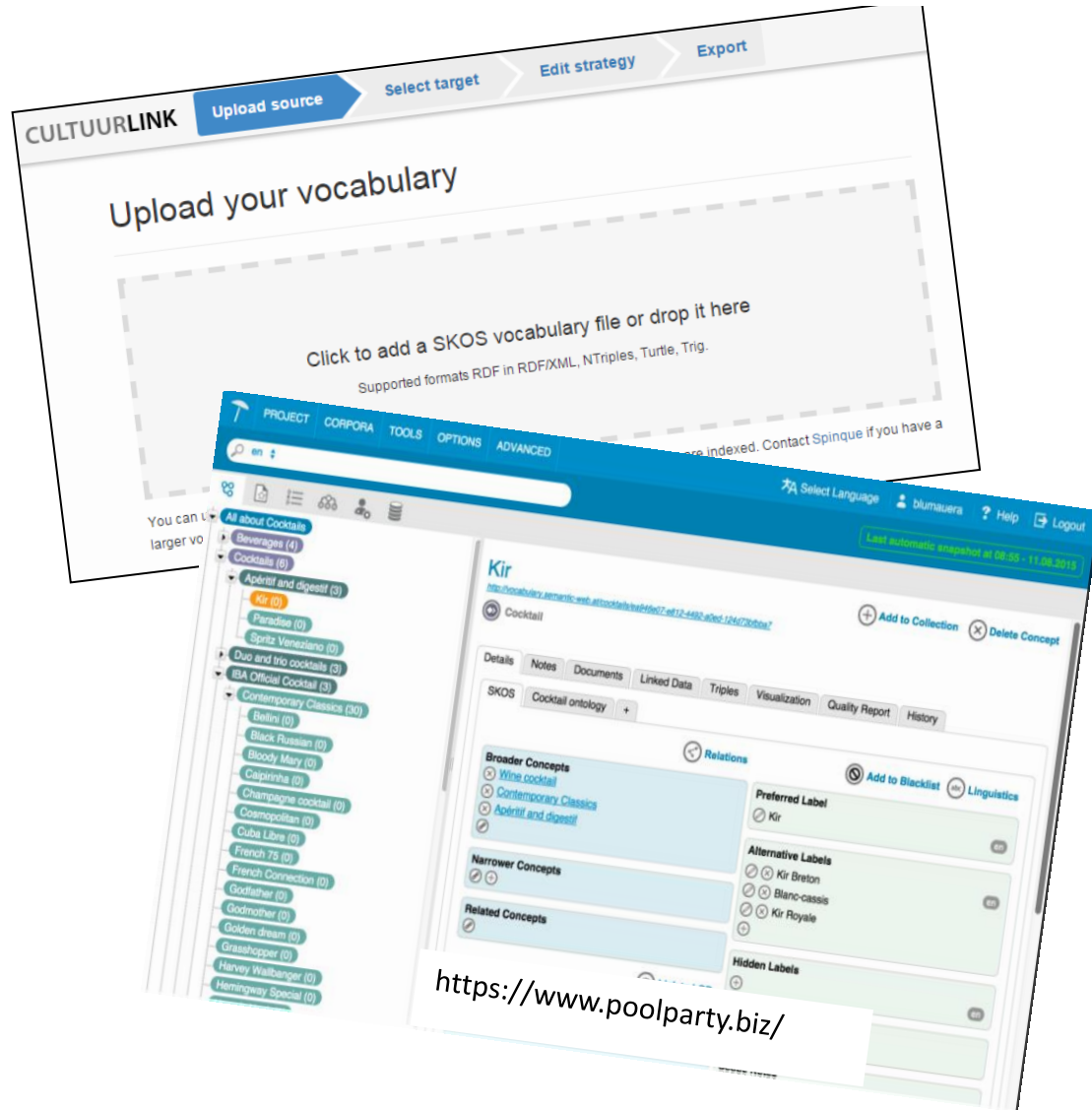

- KB** (Koninklijke Bibliotheek) with 8 Datasets
- NATIONAAL MILITAIR MUSEUM** (Nationaal Militair Museum) with 2 Datasets
- NETWERK OORLOGSBRONNEN** (Network Oorlogsbronnen) with 2 Datasets
- PICTURAE**
- 

*Based on
DCAT, DATAID(?)*

Knowledge graph for (Dutch) Digital Heritage



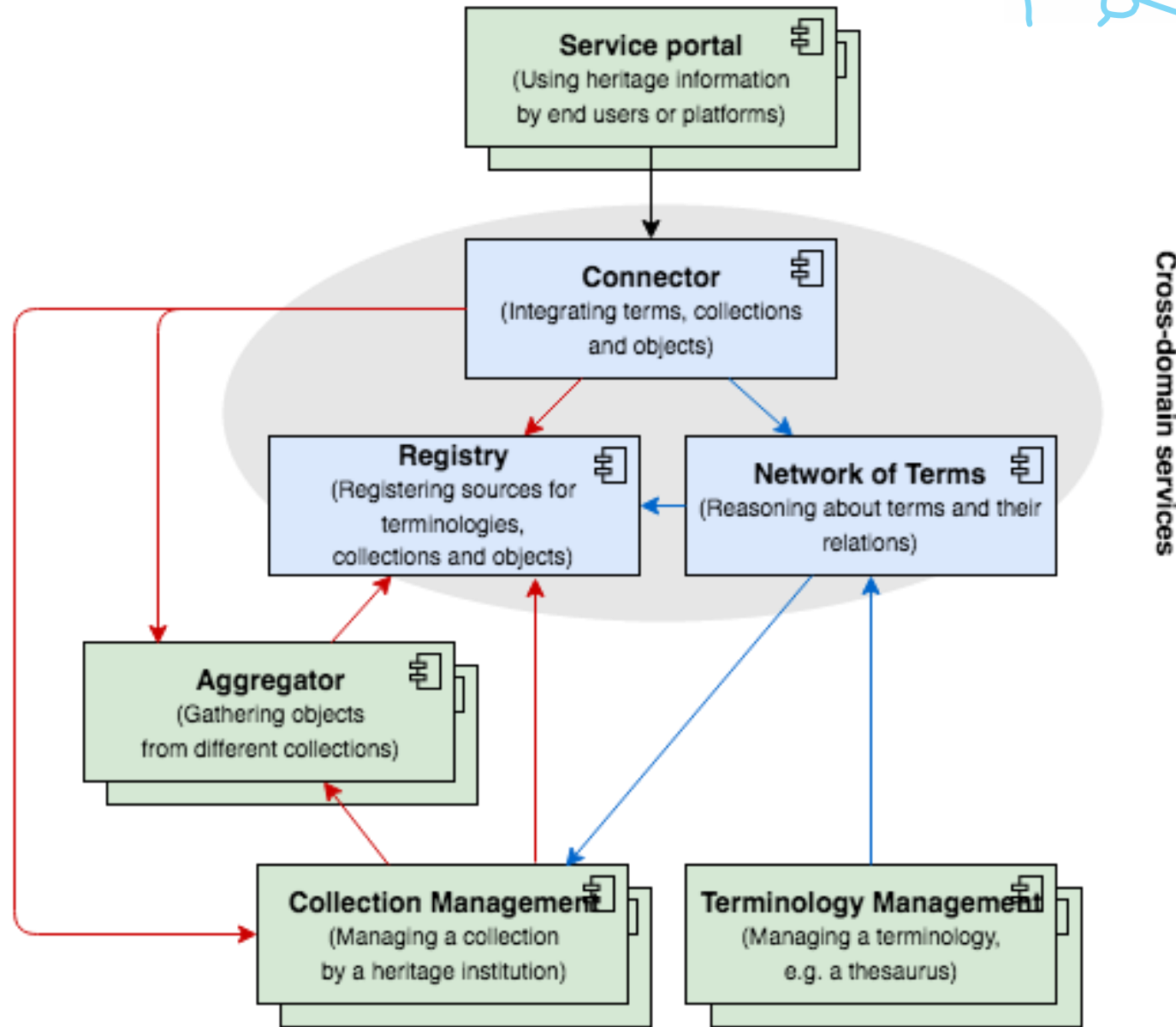
Building on previous work!

OpenSKOS: Simple Knowledge Organization System Repository

Welcome to OpenSKOS

- What is OpenSKOS?
- Editor
- API
- OAI-PMH



Cross-domain services

Designing the NDE cross-domain infrastructure

Proof-of-Concept phase (1)

NDE participates in projects to develop / test the approach:

- Zuiderzee Museum / Amsterdam Museum
- Network Dutch War Resources
- VTMK fashion thesaurus (Modemuze)
- Picture library Dutch East Indies
- GTAA @ Groninger Archieven (webarchive)
- Linked Data Pilot National Archives
- RKDartists

Proof-of-Concept phase (2)

- Investigate possible alignment with
 - Europeana
 - CLARIAH
 - Packed/Flemish Heritage institutions
- Investigate new protocols/solutions/platforms:
 - Linked Data Fragments (LODLaundromat)
 - Resource Sync, Webmention, Linked Data Notifications
- Experiment with distributed web technologies (IPFS/Blockchain)

Thanks for your attention!

Let's exchange ideas...