

# Knowledge models for government information

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Oslo, april 3 2008

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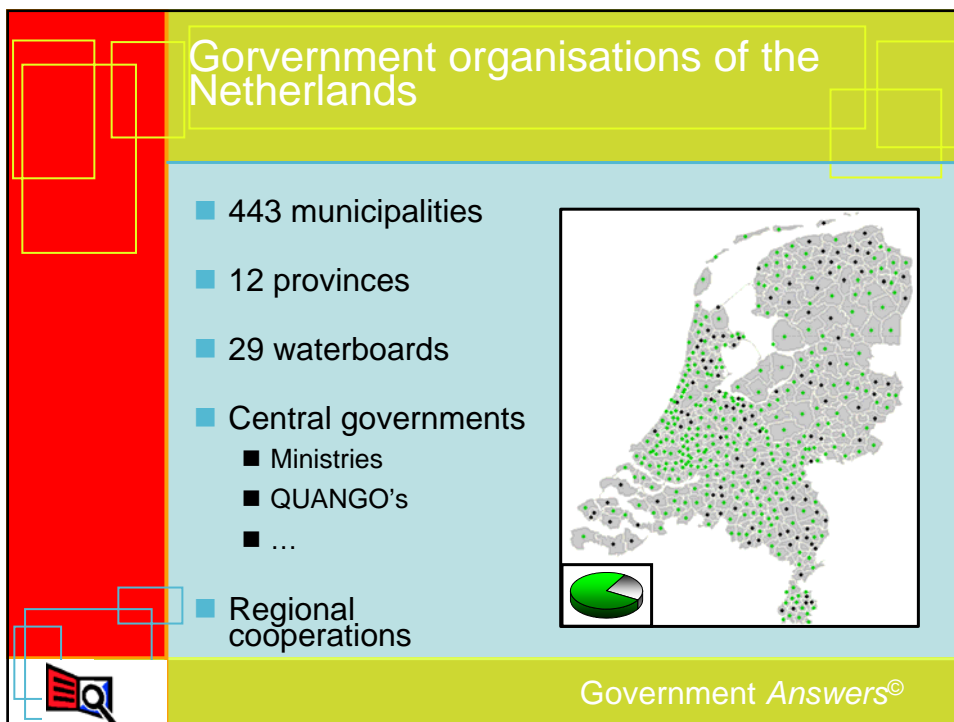
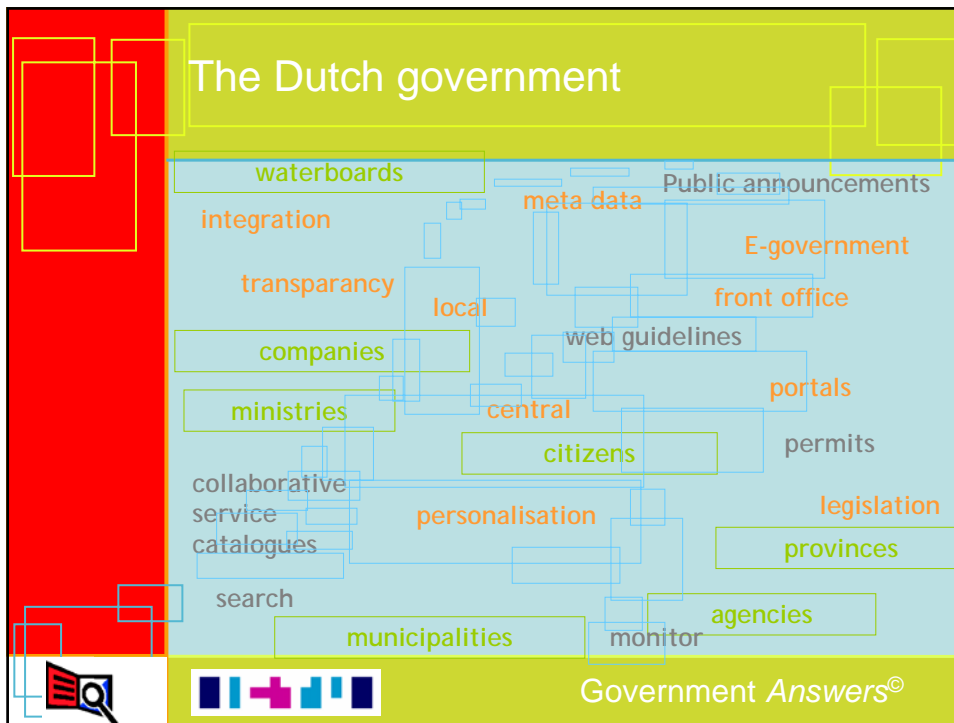


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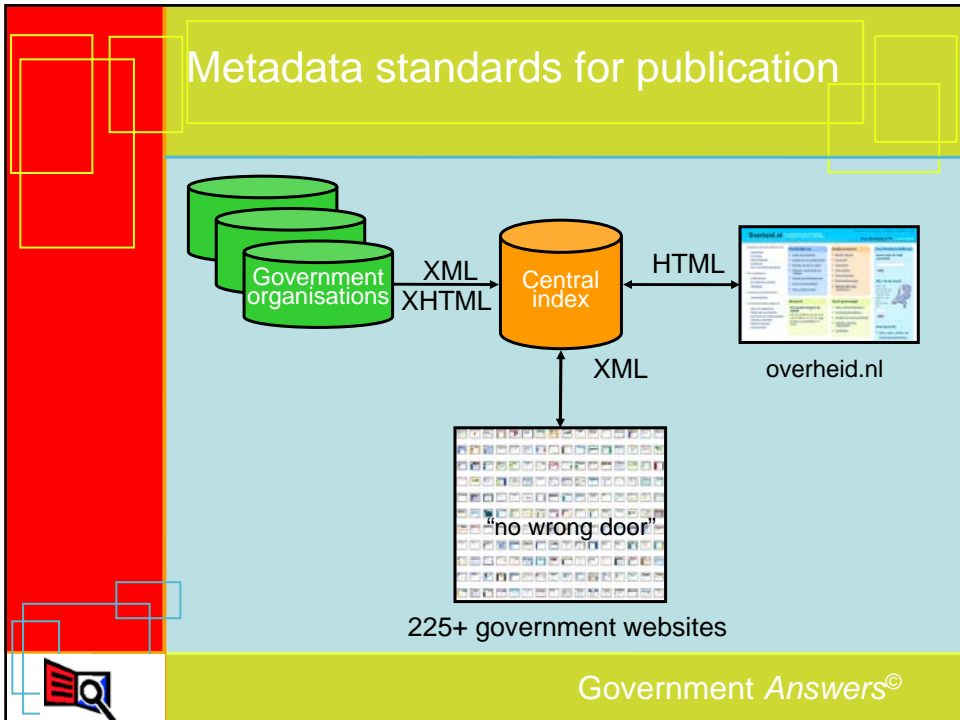


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# Metadata standards for publication



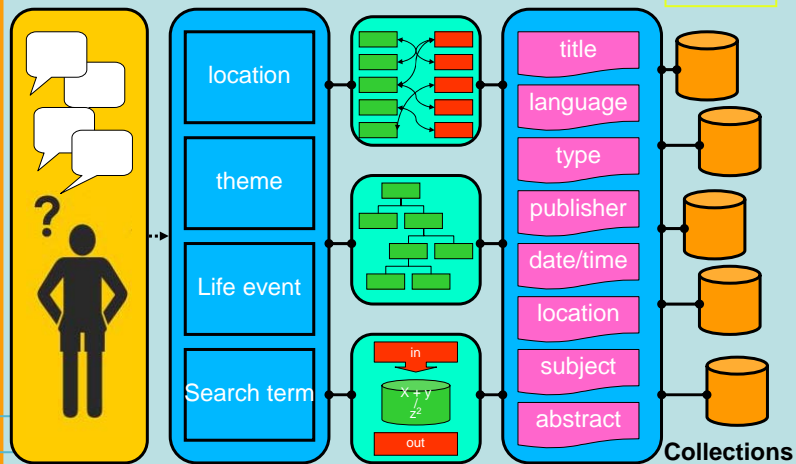
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# Metadata and Controlled vocabularies

This block shows two screenshots. The left screenshot displays an XML document with metadata for a project titled 'Samenwerkende Catalogi/2007-1/1'. The XML includes fields for 'productnaam', 'aard', 'aanmaakdatum', and 'typeinformatie'. The right screenshot shows a controlled vocabulary list with terms such as 'Druiften', 'Dulnevou', 'Echt-Susteren', 'Edam-Volendam', 'Eindhoven', 'Emmen', 'Emsmond', 'Ermelo', 'Etten-Leur', 'Ferenwadiel', 'Frankeradeel', 'Gaasterland-Sleat', 'Gaasterland', 'Gelderland', and 'Geldrop-Mierlo'. Arrows indicate the mapping between the XML document's 'typeinformatie' field and the controlled vocabulary list.

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## Bridging the gap



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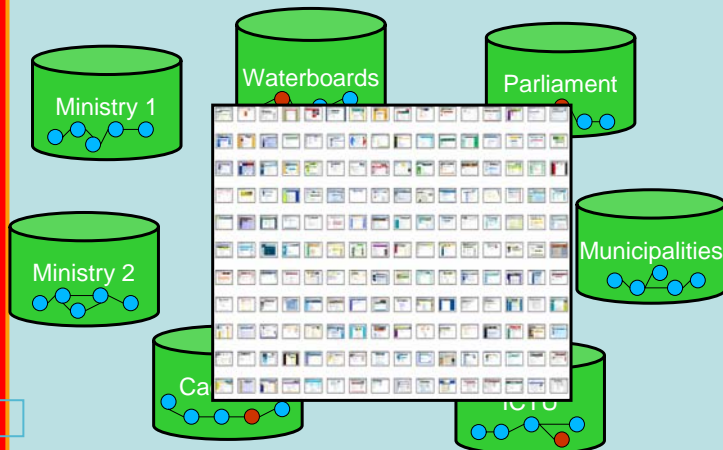
## Basic challenges

### ■ How to define entities and their relations

- From many different sources and domains
  - Not “one model to rule them all”
  - Management of entities and relations by responsible authority
  - Easy integration of existing models
  - Easy expansion with new models
- In an open, standardized way
  - for use in vendor tools

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## Why not a Topic Map indeed?

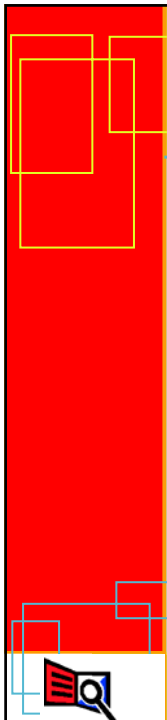


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## Issues and discussion

- How to define & manage:
  - Knowledge models
  - published subject indicators
    - For entities
      - What level of granularity?
    - For less concrete things
      - Life events, search terms
- Across many organisations and domains
- Through time and space

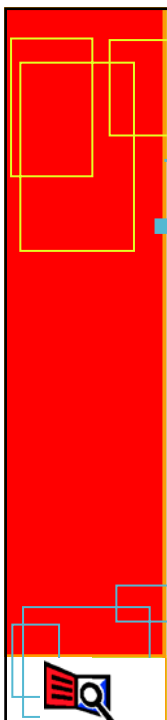

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# Topicana

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# OWMS

- Government-wide Web Metadata Standard
  - Based on Dublin Core
  - (Current) version 3.5:
    - Elements
    - Encoding schemes
      - Syntax encoding schemes (i.e. W3CDTF)
      - Controlled Vocabularies
  - (Future) Version 4.0:
    - Same data
    - Expressed as entities and relations

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# Topicana

- Management tool for knowledge models
  - For internal use
  - Support for basic Topic Maps structure (TAO)
- Features
  - Easy editing of knowledge models
    - User interface
    - Microsoft Excel export/import
  - Publish to any format using XSL
    - Custom processing for each individual topic
    - XHTML, XML, XTM
- Data: OWMS 3.5, ready for OWMS 4.0

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