Enhanced Publications

using OAI-ORE
Introduction

• Data Archiving & Networked Services
  – Institute from both KNAW and NWO

• DRIVER II
  – JRU with SURFfoundation and academic institutes
  – WP: Enhanced Publications
A picture is worth a thousand words...
But why...

• Only a few number of small, low-resolution black & white, still images? No moving images, no dynamic visualizations? No data?

• Enormous possibilities to share and discover results using Internet and (e.g.) DRIVER infrastructure
Enhanced Publications

• Publications combined with research data, visualizations, etc.

• Combine by:
  – Linking publication and data externally
  – Linking data from within publication
  – Integrating data into publication
Demonstrator - Goals

- Suggest the perfect solution
- Show the opportunities and challenges
- Help people think about requirements and solutions
Approach

• Collect publication, data and metadata
  – define and identify aggregations of (web) resources using OAI-ORE
Approach

• ... in a durable way
  – using persistent identifiers, digital author identifiers (DAI), vocabularies, etc.
Approach

• ... in an exchangeable format
  – describe aggregations as triple-relations using RDF

<!-- SIMPLIFIED ORE FOR DEMO ONLY -->
<rdf:Description rdf:about="urn:nbn:nl:ui:13-qrs-tuv">
  <rdf:type rdf:resource="http://www.openarchives.org/ore/terms/Aggregation"/>
  <dans:epType dans:resource="info:eu-repo/semantics/enhanced_publication"/>
  <ore:aggregates rdf:resource="urn:nbn:nl:ui:26/15677"/>
  <ore:aggregates rdf:resource="urn:nbn:nl:ui:26/15678"/>
  <ore:aggregates rdf:resource="urn:nbn:nl:ui:26/15680"/>
  <dcterms:creator rdf:parseType="Resource">
    <foaf:name>M. Versluis</foaf:name>
    <dai:identifier info:eu-repo/dai/nl/298870398</dai:identifier>
  </dcterms:creator>
</rdf:Description>
Approach

• ...visualize in browser
  – translate RDF to HTML using XSLT
Demonstration

http://driver2.dans.knaw.nl
Challenges

• Contents
  – Fixed, Quality, Durability

• Presentation
  – Standardized and generic or custom-made

• (Persistent) Identification
  – Granularity, level of persistence, use with ORE

• Long Term Preservation
  – Who?

• Creation
  – The need for tools

• ...

Data Archiving and Networked Services

Maarten Hoogerwerf, 17-06-2009, OAI6
Conclusions

• OAI-ORE can be used to aggregate components of an enhanced publication
  – Further community-specific agreements required
• Durability aspect needs to be solved
  – What to aggregate and how to aggregate?
• Tools
Future

• SURFshare tender projects
  – DatapluS
  – JALC
  – Veteran Tapes VP
  – ESCAPE
  – Proefschriften Plus
Thank you!

• Questions?

FAQ:

• Is the demonstrator online?
  – Yes, http://driver2.dans.knaw.nl