

# Making a Portal for Digital Educational Resources: meet Wageningen Universities Library for Learning

**Marijn Post**, Peter van der Togt, Paulien van Vredendaal, Joost van Ingen & Ulrike Wild



# Motivation for making L4L

- More and more Digital Educational Resources @WUR
- Unknown where and how many: Scattered around university on servers, networks and personal drives
- A need to collect the DERs, gather them and make them findable and reusable for others



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# Our goals

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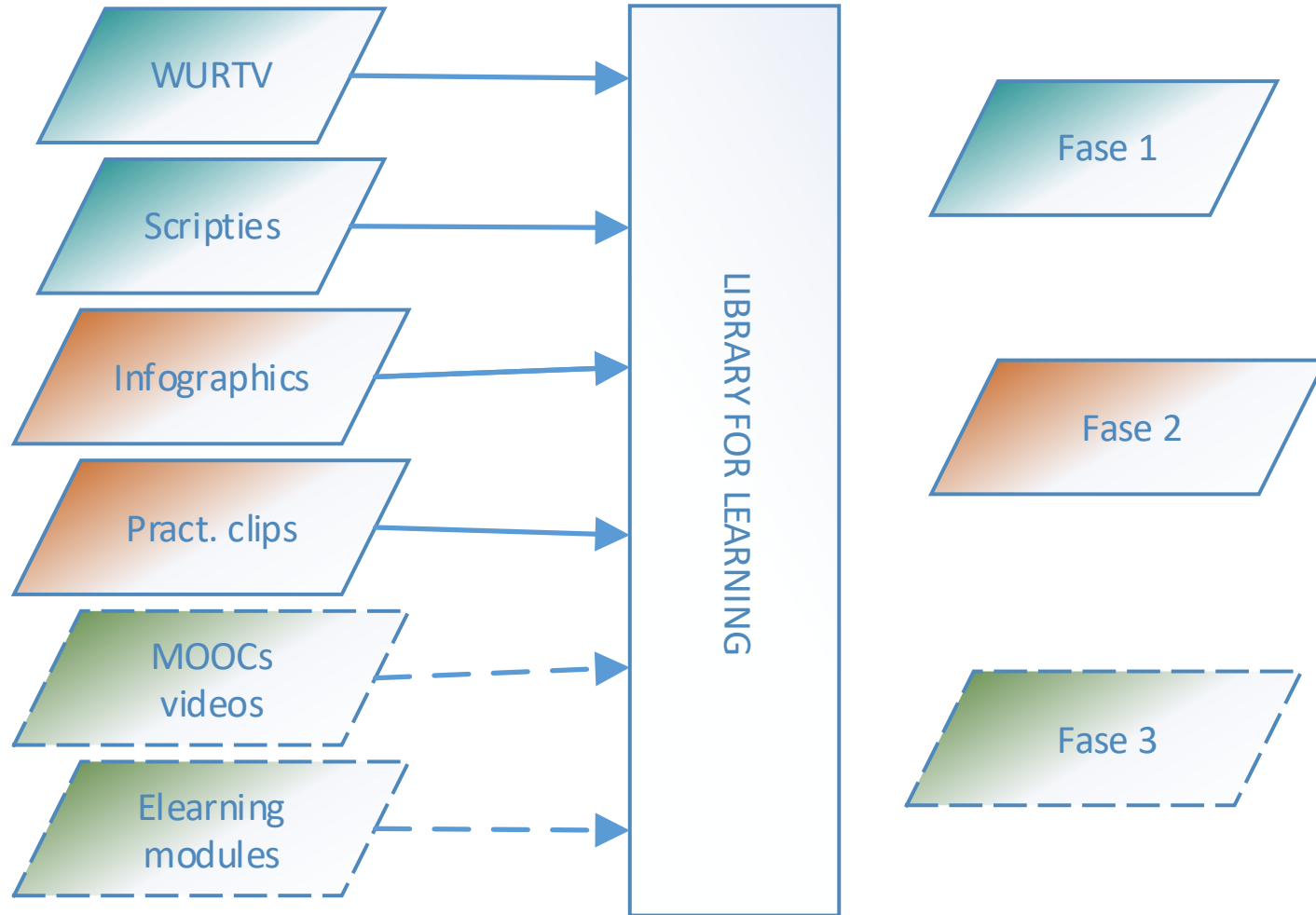
Making a portal so teachers:

- Can search and find DER from the WUR
- Are stimulated to reuse or get inspired by material of others
- Can share their material with other teachers (WUR/Public)




A screenshot of a search interface. At the top, there is a red graduation cap icon followed by the text "Library for learning". Below this is a search input field with the placeholder text "Enter a search term". To the right of the input field is a blue button with a magnifying glass icon and the word "Search".

# Library for Learning




# Library for Learning: [www.wur.eu/l4l](http://www.wur.eu/l4l)




## Library for Learning (BETA)

[marijn.post@wur.nl](#) | [Log out](#)

[Home](#) > [Library](#) > [My Library](#) > [Library for Learning catalogue](#) > [Search result](#)

 Search

 Your marked list





**source**  
[wurtv2 \(1036\)](#)  
[Theses Online \(3706\)](#)  
[Practicumclips \(127\)](#)  
[Infographics \(5\)](#)


**type**  
[thesis \(3706\)](#)  
[video \(1163\)](#)  
[infographic \(5\)](#)

**contributor**  
[Truus van Woudenberg \(Undefined\) \(38\)](#)  
[Joanne Leerlooijzer \(Undefined\) \(30\)](#)  
[Arnaud Bovy \(Undefined\) \(29\)](#)  
[Wierenga, Peter \(Presenter\) \(29\)](#)  
[+ more...](#)




Search ?

e.g. plant AND path\*, chemistry OR physics, "public health", food NOT video

Records 1 - 50 / 4874  [alert](#)  [export](#)  [marked list](#)  [help](#)

↕ Check title to add to  [marked list](#)

Sort by

Title	Link
<input type="checkbox"/> <a href="#">Use and applications of protein hydrolysis</a> protein - hydrolysis - food - applications - properties - overview recording date: 2017-12-11T10:41:04Z recording type: Kennis clip	
<input type="checkbox"/> <a href="#">Functionality of protein hydrolysates</a> protein hydrolysates - techno-functionality - solubility - molecular weight distribution - ace inhibition - bitterness recording date: 2017-12-11T10:37:45Z recording type: Kennis clip	
<input type="checkbox"/> <a href="#">"Specificity and selectivity of enzymes</a> proteases - specificity - selectivity - degree of hydrolysis - dh - peptide identification - peptide quantification recording date: 2017-12-11T10:34:46Z recording type: Kennis clip	



# Challenges

1. Use of other *repositories*
2. Search interface
3. Organisation
4. Teachers




Nick Youngson CC BY-SA 3.0 Alpha Stock Images

# Challenge 1

- Use of other *repositories*:
  - Different metadata models
  - Missing metadata fields
  - Quality of metadata
  - Other technical infrastructure
  - Lack of useful API's

## Seed Hunter



-  Mail
-  Copy
-  Embed
-  Tweet
-  Share
-  Aanbevelen 0

68 hits | Niet beoordeeld

Jun 20, 2012 08:55:27

Seed Hunter

Datum  
Vakgebieden  
Opname Types

2012-06-20T08:55:27  
Landbouwwetenschappen  
DVD Rip

# Different metadata models

## ■ Generic L4L metadata standard

- 1<sup>st</sup> step: Checking other repositories and experts
- 2<sup>nd</sup> step: compatibility with,
  - IEEE Standard for Learning Object Metadata (1484.12.1-2002 - IEEE )
  - NL-LOM (Edustandaard)

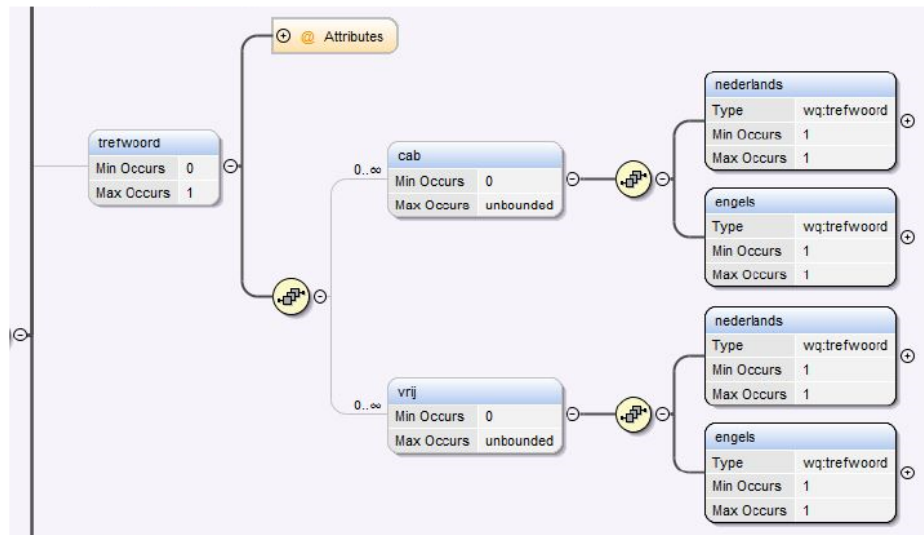
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  <type>video</type>  
  <title>Plant Breeding - Ethics in Science</title>  
  <contributor>Marieke Jeuken (Presenter)</contributor>  
  <description>Plant Breeding - Ethics in Science</description>  
  <keyword>plant</keyword>  
  ▼<course>  
    <id>unknown (conversie)</id>  
    <code>PBR23803</code>
```

## ■ Mapping other Metadata model to generic L4L model



# Mapping metadata

- Mapping metadata source to metadata in L4L
- Step 1
  - Metadata in Source via XSD of Record
    - Problem 1: Missing fields
    - Problem 2: Fields not clear
    - Problem 3: Quality of filled in Metadata



# Mapping metadata

- Step 2
  - Match fields source to field L4L.

Veld Theses	Voorbeeld veldwaarde	Veld LfL
		id
		source
		type
Titelbeschrijving/begintekst Titelbeschrijving/title		title
Auteur/persoon	Wolfkamp, J.	contributor
Referaat/engels Referaat/nederlands		description
Classificatie/trefwoord/engels		keyword

# Mapping metadata

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## ■ Step 3


- Repairing metadata(fields) in the source:
  - Adding fields (e.g. Access/ license/ coursenummer)
  - Adding metadata in the fields (keywords/ transcript of text/ CC-license/ Copyright owner etc)

# API

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- Different API's:
  - Webquery (WUR Library)/OAI PMA/....
    - Each API was checked and fitted to our L4L (when possible).
- API does not automatically harvest new/updated metadata.
  - Not yet solved: we are working on it!

# Challenge 2: Search interface

**WAGENINGEN**  
UNIVERSITY & RESEARCH

Library for Learning (BETA)

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Search

Your marked list

Search ?

**source**

wurtv2 (103)

Theses Online (1)

Practicum clips (1)

Infographics (5)

**type**

thesis (3706)

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+ more...

☐ **Use and applications of protein hydrolysis**

protein - hydrolysis - food - applications - properties - overview

recording date: 2017-12-11T10:41:04Z

recording type: Kennis clip

☐ **Functionality of protein hydrolysates**

protein hydrolysates - techno-functionality - solubility - molecular weight distribution - ace inhibition - bitterness

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☐ **"Specificity and selectivity of enzymes"**


proteases - specificity - selectivity - degree of hydrolysis - dh - peptide identification - peptide quantification


recording date: 2017-12-11T10:34:46Z

recording type: Kennis clip

Link











Fase 3: Check interface and functionalities for teachers again

# Search box to L4L on MyPortal






## Start

 Library for learning

Library for learning - Shows the library for learning search box.

 Course Announcements

1 Week

HSO-31306 - 2017/5 - Presentation: Pitching	24 Apr 2018
HSO-31306 - 2017/5 - Peer-review Groups Part C	23 Apr 2018
ETE-25812 - 2017/5 - General feedback on draft IL assignment	23 Apr 2018
HSO-31306 - 2017/5 - Example Exam (voorbeeldtentamen) available	23 Apr 2018
HSO-31306 - 2017/5 - New Deadline Assignment 2 (critical appraisal)	20 Apr 2018
HSO-31306 - 2017/5 - Similarity Reports via Turnitin +Peer-review slides	19 Apr 2018



# Challenge 3: Organisation

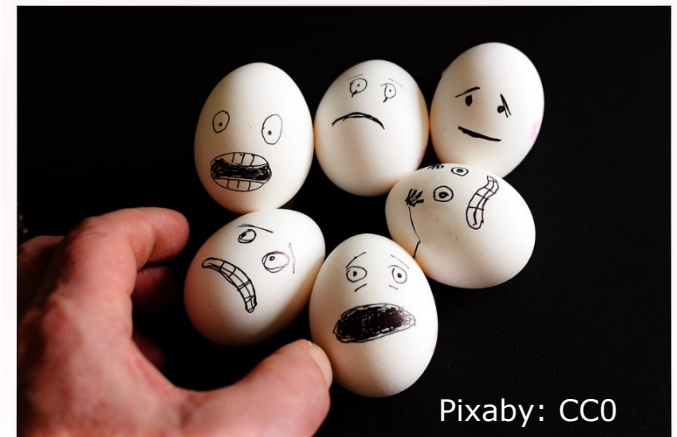
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Pixaby: CC0

# Challenge 4: Teachers and sharing

- Teachers are a bit scared to share their material:
  - Quality check
  - Misuse/abuse of their material
  - No work anymore
  - Copyright
  - Access
- No (WUR) policy
- No repository to upload material or link to ELO



# Teacher commitment and awareness

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- Making (WUR) policy on sharing DER
  - E.g. CC licence/access...
- Together with SURF and working Group Open and Online Education:
  - Checking possibilities ShareKit
  - Checking possibilities coupling to ELO
- Organizing workshops:
  - Finding and sharing OER
  - Working with the L4L
  - Copyright in Teaching material

# Continuing improving L4L: Fase 3

- Sources:
  - Clips EdX (MOOC's)
  - Clips Vimeo
  - Elearning Modules (Github)
- Automated Harvesting
- Data quality WURTV2
- Teacher awareness
- SURF Sharekit



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