

# 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



[©Annielogue CC-BY-SA](#)

# Our goals

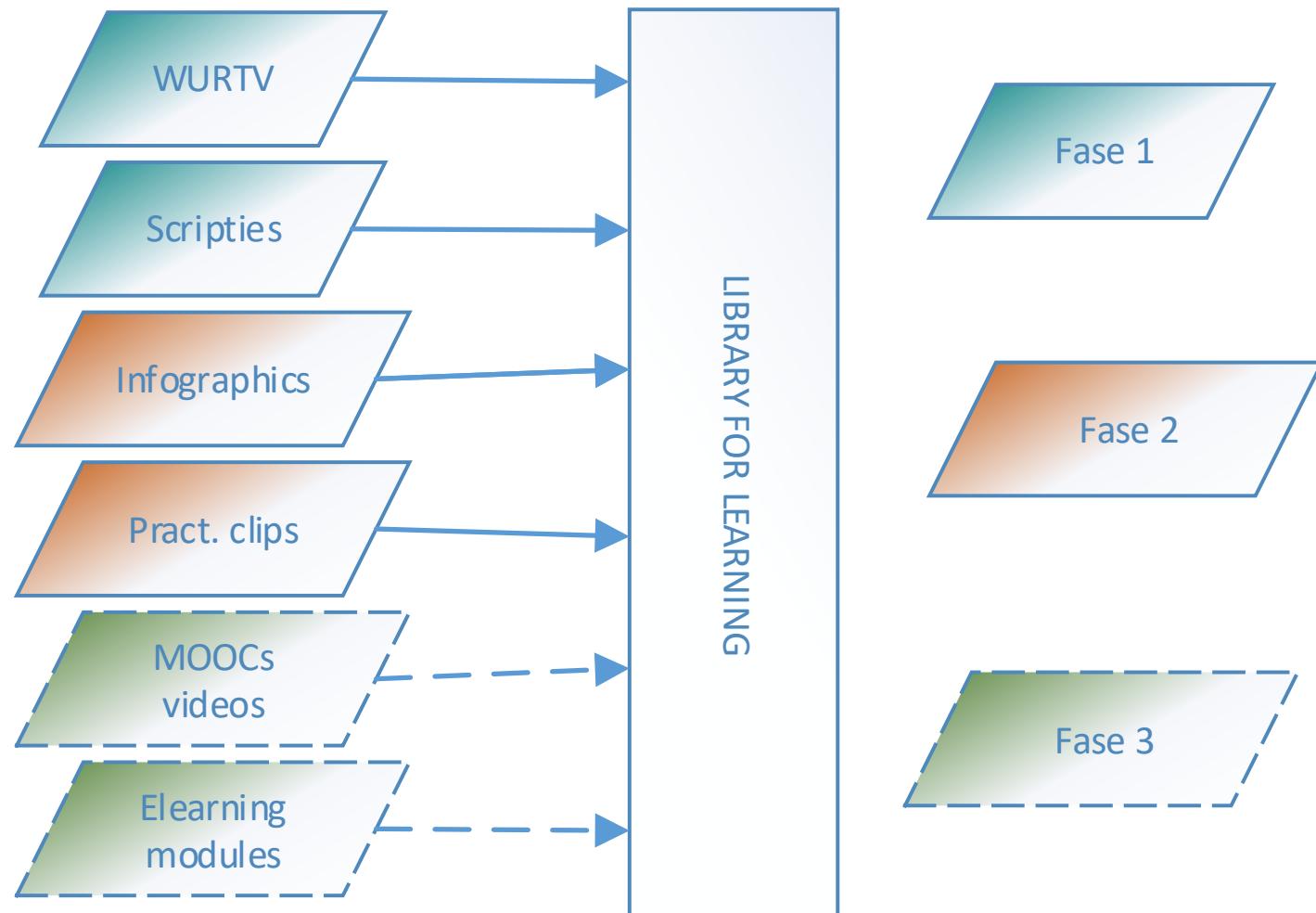
---

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)



# Library for Learning



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

 WAGENINGEN  
UNIVERSITY & RESEARCH

## 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 Woudenbergh \(Undefined\) \(38\)](#)  
[Joanne Leerlooijer \(Undefined\) \(30\)](#)  
[Arnaud Bovy \(Undefined\) \(29\)](#)  
[Wierenga, Peter \(Presenter\) \(29\)](#)  
[+ more...](#)

Enter your search terms   ?  
e.g. plant AND path\*, chemistry OR physics, "public health", food NOT video

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

↓Check title to add to  [marked list](#) Sort by

Title	Link
<input type="checkbox"/> <a href="#"><u>Use and applications of protein hydrolysis</u></a> protein - hydrolysis - food - applications - properties - overview recording date: 2017-12-11T10:41:04Z recording type: Kennis clip	
<input type="checkbox"/> <a href="#"><u>Functionality of protein hydrolysates</u></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="#"><u>"Specificity and selectivity of enzymes</u></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



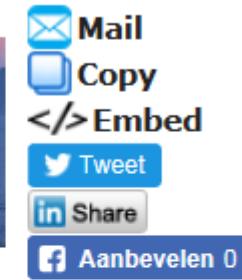
[Nick Youngson CC BY-SA 3.0 Alpha Stock Images](#)

# 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



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)

```
<lfl isn="310" cd="2016-12-09T14:10:50Z" cu="batch.library@wur.nl" md="2016-12-09T14:10:50Z" hd="2016-12-09T14:10:50Z">
  <id>dkBn0i</id>
  <status>nieuw</status>
  <source>wurtv2</source>
  <type>video</type>
  <title>Plant Breeding - Ethics in Science</title>
  <contributor>Marieke Jeuken (Presentor)</contributor>
  <description>Plant Breeding - Ethics in Science</description>
  <keyword>plant</keyword>
  <><course>
    <id>unknown (conversie)</id>
    <code>PBR23803</code>
  </course></>
</lfl>
```

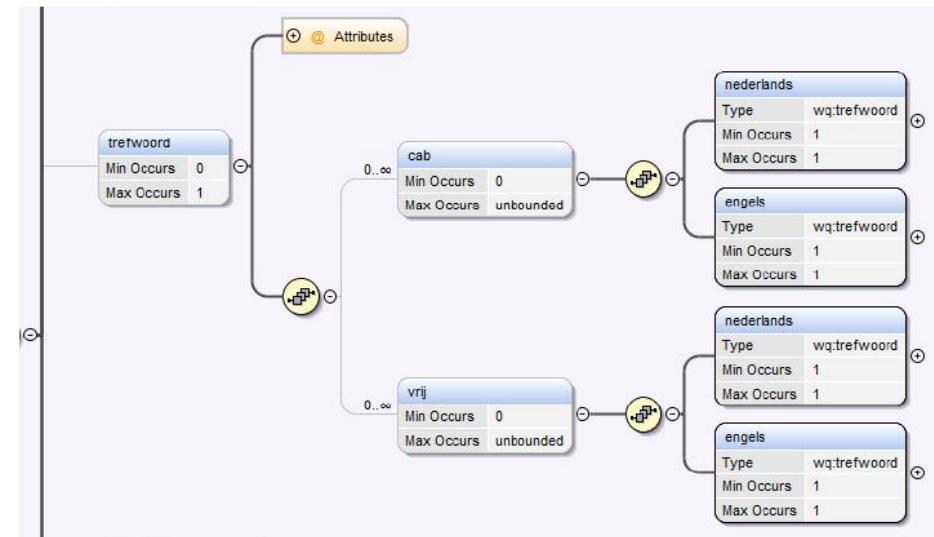
- Mapping other Metadata model to generic L4L model

# 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 LfL.

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

# Mapping metadata

---

## ■ Step 3

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

# API

---

- 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)

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

Home > Library > My Library > Library for Learning catalogue > Search result

Search  Your marked list

Enter your search terms  ?

**source**  
wurtv2 (103)  marked list ? help  
Theses Online   
Practicumclip   
Infographics (5)

**Fase 3: Check interface and functionalities for teachers again**

**type**  
thesis (3706)    
video (1163)    
infographic (5)  

**contributor**  
Truus van Woudenbergh (Undefined) (38)   
Joanne Leerlooijer (Undefined) (30)   
Arnaud Bovy (Undefined) (29)   
Wierenga, Peter (Presenter) (29)   
+ more...

Title	Link
<input type="checkbox"/> <b>Use and applications of protein hydrolysis</b> protein - hydrolysis - food - applications - properties - overview recording date: 2017-12-11T10:41:04Z recording type: Kennis clip	
<input type="checkbox"/> <b>Functionality of protein hydrolysates</b> 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"/> <b>"Specificity and selectivity of enzymes</b> proteases - specificity - selectivity - degree of hydrolysis - dh - peptide identification - peptide quantification recording date: 2017-12-11T10:34:46Z recording type: Kennis clip	

# Search box to L4L on MyPortal

The screenshot shows the Wageningen University & Research MyPortal homepage. At the top left is the university's logo and name. To its right is a green banner with a stylized sunburst graphic and the text "100 years 1818 - 2018". Below the banner is a scenic landscape image of a river and fields. A large, semi-transparent overlay covers the middle of the page. It features a header "Start" and a section titled "Library for learning" with a graduation cap icon. Below this is a search bar with placeholder text "Enter a search term" and a "Search" button. A tooltip for the search bar reads "Library for learning - Shows the library for learning search box.". Further down, there is a section titled "Course Announcements" with a graduation cap icon. It includes a dropdown menu set to "1 Week" and another search bar. A list of course announcements is displayed:

Announcement	Date
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

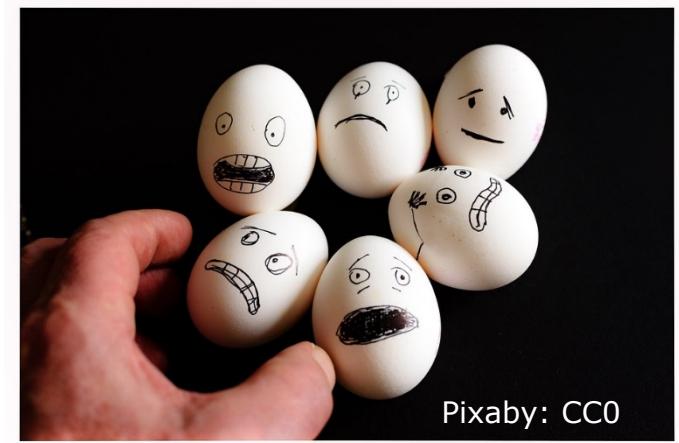
# Challenge 3: Organisation



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



Pixaby: CC0

# Teacher commitment and awareness

---

- 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

The image shows two screenshots of mobile devices displaying MOOC course pages from WageningenX.

**Screenshot 1:** The top screenshot shows a course titled "Biobased Processes and Implementation". It features a diagram of a biobased process flow with various tanks and pipes. A green banner at the bottom indicates it is "VERIFIED" and "Self-Paced". The "MicroMasters®" logo is visible. The course title is "WageningenX Biobased Processes and Implementation".

**Screenshot 2:** The bottom screenshot shows a course titled "Nutrition and Health: Micronutrients and...". It features a photo of a hand holding a yellow bell pepper over a bowl of fresh vegetables like tomatoes, radishes, and lettuce. A green banner at the bottom indicates it is "VERIFIED" and "Self-Paced". The "MicroMasters®" logo is visible. The course title is "WageningenX Nutrition and Health: Micronutrients and...".

# Thank you!

Marijn.post@wur.nl

