

# A guide to semantic mapping between terminologies in Xtree

Draft 0.1 - 2012-02-07

URL Xtree 0.9

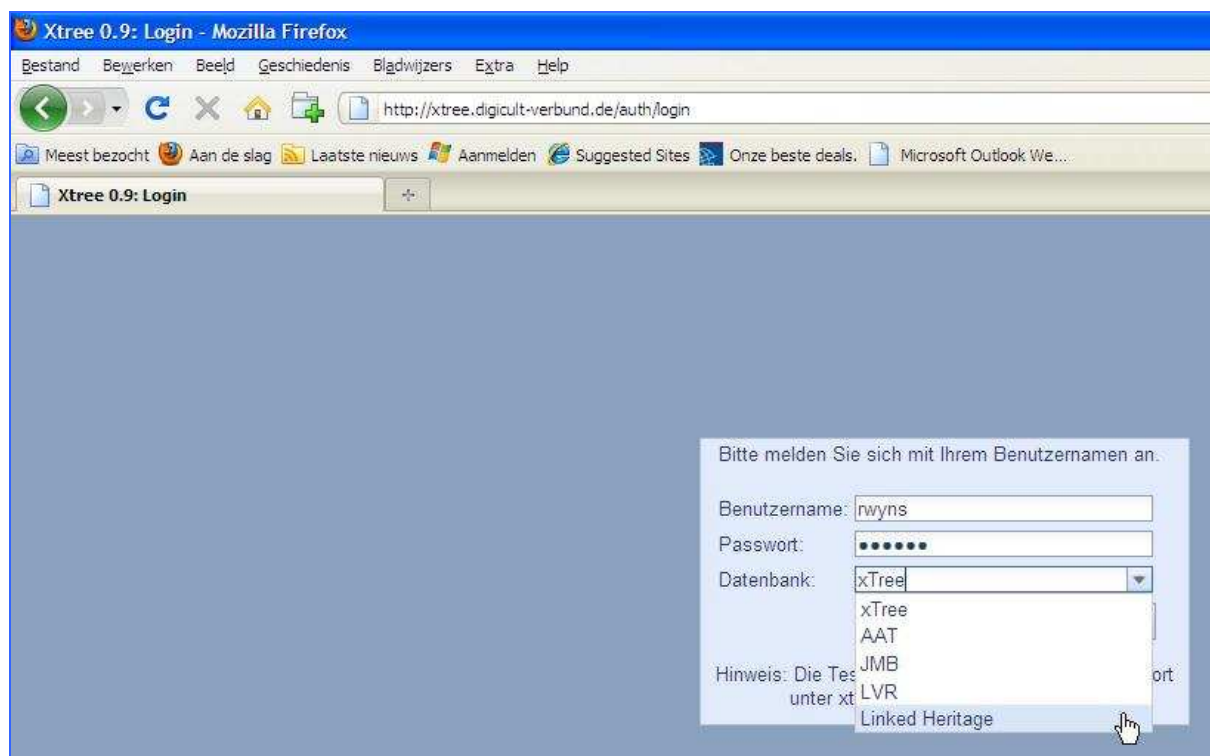
<http://xtree.digicult-verbund.de/>

## 1. Authentication



For login request, contact Roxanne Wyns ([r.wyns@kmg.be](mailto:r.wyns@kmg.be)) and Marie-Véronique Leroi ([marie-veronique.leroi@culture.gouv.fr](mailto:marie-veronique.leroi@culture.gouv.fr))

- 1) Enter you username in **Benutzername**
- 2) Enter you password in **Passwort**
- 3) Select Linked Heritage from drop down list **Datenbank**
- 4) Click **OK**

### **Login**

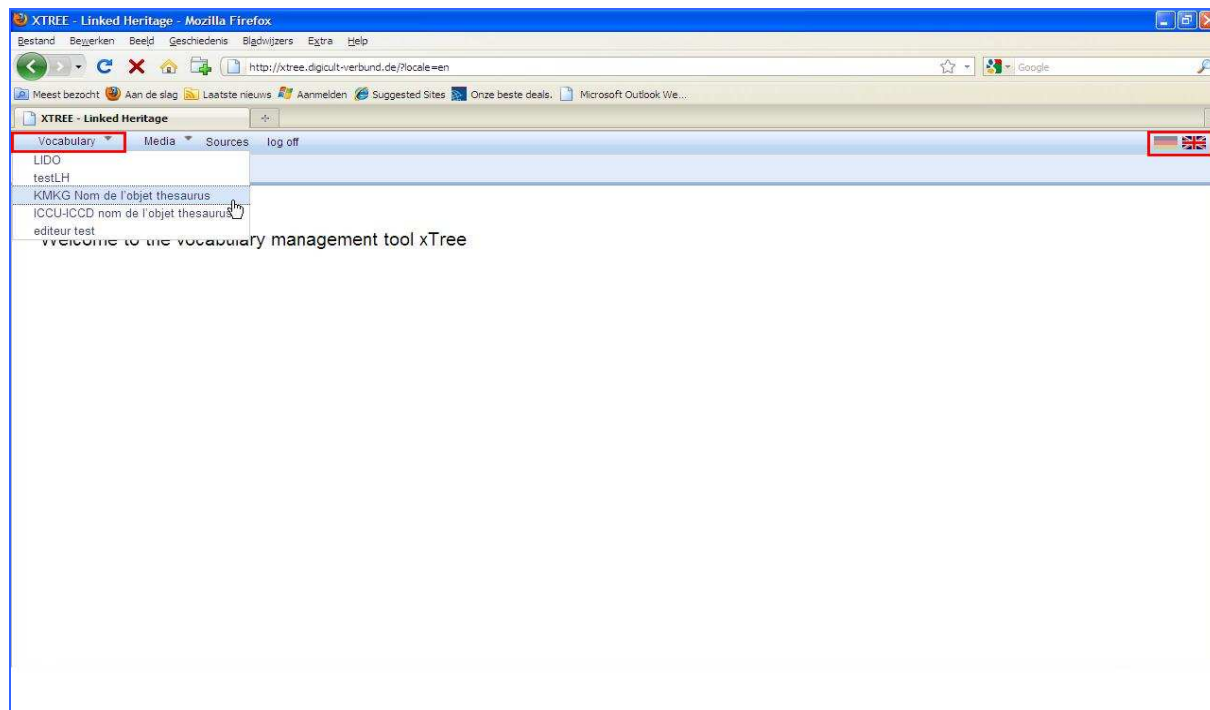


## 2. Welcome screen

1. The Xtree interface is available in German (main language) and English. You can switch languages by clicking on the flags   in the upper right corner.
2. Select the vocabulary you want to look at or work on in the menu at the upper left corner.

- When clicking on **Vocabulary** a drop down list will appear with all the Linked Heritage vocabularies uploaded in Xtree<sup>1</sup>.
- Rights are managed as such that you can consult all Linked Heritage terminologies, but have only full control over your “own” terminology.



### Welcome screen



## 3. Consultation mode

### 3.1 Vocabulary browsing

There are multiple ways to browse through a vocabulary in search of a concept or term by selecting one of the following tabs:

- 1) **Tree view navigation:** Push the  sign left of the node entry to go deeper into the hierarchy.
- 2) **Search for a term or ID<sup>2</sup>:** Type in the term you are looking for and push the green  arrow. Use asterisk to search on a partial word (e.g. “archi\*” to find all terms starting with this string, or “\*archi\*” to get e.g. “landscape of architecture”).
- 3) **List (alphabetic):** Click on + or - at the bottom of the list to navigate through alphabetic list.

<sup>1</sup> At this moment the list still includes some entries for testing purposes (testLH and Editeur test). The testLH entry can be used by users to get acquainted with the system.

To upload a new vocabulary, contact Roxanne Wyna ([r.wyna@kmgk.be](mailto:r.wyna@kmgk.be)) and Marie-Véronique Leroi ([marie-veronique.leroi@culture.gouv.fr](mailto:marie-veronique.leroi@culture.gouv.fr)).

<sup>2</sup> The default is an exact string search

## Tree view navigation

The screenshot shows the 'XTREE - Linked Heritage' application. The 'Tree' tab is selected in the left sidebar, displaying a hierarchical list of concepts. The 'Architectural element (en) (ID: 41878)' is highlighted. The main panel on the right shows the details for this concept, including its ID, label, type, and various tabs for Basic data, Relations, Mappings, Notes, and Forum.

**Tree View:**

- C Object name (en) (ID: 41875)
- C Animal equipment (en) (ID: 41931)
- C Applied decoration and motives (en) (ID: 41932)
- C Architecture (en) (ID: 41877)
- C Architectural element (en) (ID: 41878)**
- C Single built work (en) (ID: 41879)
- C Arm and armour (en) (ID: 41955)
- C Ceremonial object (en) (ID: 41881)
- C Container (receptacle) (en) (ID: 41922)
- C Costume and costume accessory (en) (ID: 41923)
- C Fastener and closure (en) (ID: 41940)
- C Furniture and furniture accessory (en) (ID: 41930)
- C Lighting device (en) (ID: 41930)
- C Means of communication (en) (ID: 41885)
- C Means of exchange (en) (ID: 41927)
- C Musical instrument (en) (ID: 42040)
- C Aerophone (en) (ID: 42289)

**Details for Architectural element (en) (ID: 41878):**

- Id:** 41878
- Label:** Architectural element (en)
- Type:** Concept
- URI:** <http://kmg.vocnet.org/41878>
- Source:** KMG
- ID source:**
- Creator:**

Label	Language	Role	Numerus	Variety	Sources
Architectural element	en	preferred			> Sources (0)
Élément d'architecture	fr	preferred			> Sources (0)
Architecturaal element	nl	preferred			> Sources (0)

## Search for a term or ID

The screenshot shows the 'XTREE - Linked Heritage' application with the 'Search' tab selected. The search bar contains the term 'architecture', and the results list shows two entries: 'C Architecture (41877) (en)' and 'C Architecture (41877) (fr)'. The main panel on the right shows the details for the selected concept, 'Architecture (en) (ID: 41877)'.

**Search Results:**

- C Architecture (41877) (en)
- C Architecture (41877) (fr)

**Details for Architecture (en) (ID: 41877):**

- Id:** 41877
- Label:** Architecture (en)
- Type:** Concept
- URI:** <http://kmg.vocnet.org/41877>
- Source:** KMG
- ID source:**
- Creator:**

Label	Language	Role	Numerus	Variety	Sources
Architecture	en	preferred			> Sources (0)
Architecture	fr	preferred			> Sources (0)
Architectuur	nl	preferred			> Sources (0)

## Alphabetic list

The screenshot shows the 'XTREE - Linked Heritage' application with the 'List' tab selected. The list view displays a long list of concepts, including 'C Angeblazen idiofoon (42517) (nl)', 'C Abrevoir (42866) (fr)', 'C Accessoire d'arme et d'armure (45128) (fr)', 'C Accessoire de cheveux (45445) (fr)', 'C Accessoire de costume (41937) (fr)', 'C Accessoire de meuble (41919) (fr)', 'C Accessoire de meuble de bâtiment religieux (45757) (fr)', 'C Accessoire de moyen de transport (45783) (fr)', 'C Accessoire van een transportmiddel (45783) (nl)', 'C Adze (lithic artefact) (43660) (en)', 'C Adze-axe (stone tool) (46303) (en)', 'C Aerofoon (42289) (nl)', 'C Aérophone (42289) (fr)', 'C Aerophone (42289) (en)', 'C Aérophone libre (42290) (fr)', and 'C Afdichtingsring (43012) (nl)'. The main panel on the right shows the details for the selected concept, 'Architecture (en) (ID: 41877)'.

**Alphabetic List:**

- C Angeblazen idiofoon (42517) (nl)
- C Abrevoir (42866) (fr)
- C Accessoire d'arme et d'armure (45128) (fr)
- C Accessoire de cheveux (45445) (fr)
- C Accessoire de costume (41937) (fr)
- C Accessoire de meuble (41919) (fr)
- C Accessoire de meuble de bâtiment religieux (45757) (fr)
- C Accessoire de moyen de transport (45783) (fr)
- C Accessoire van een transportmiddel (45783) (nl)
- C Adze (lithic artefact) (43660) (en)
- C Adze-axe (stone tool) (46303) (en)
- C Aerofoon (42289) (nl)
- C Aérophone (42289) (fr)
- C Aerophone (42289) (en)
- C Aérophone libre (42290) (fr)
- C Afdichtingsring (43012) (nl)

**Details for Architecture (en) (ID: 41877):**

- Id:** 41877
- Label:** Architecture (en)
- Type:** Concept
- URI:** <http://kmg.vocnet.org/41877>
- Source:** KMG
- ID source:**
- Creator:**
- Creation Date:**
- Last Change:** Wednesday, 1 February 2012, 14:29:35
- Status:** approved

Label	Language	Role	Numerus	Variety	Sources
Architecture	en	preferred			> Sources (0)
Architecture	fr	preferred			> Sources (0)
Architectuur	nl	preferred			> Sources (0)

### 3.2 View concept information

Select a concept in the tree, e.g. Architecture.

5 different tabs show in the right window:

1. **Basic data:** ID, labels, URI, Source,...
2. **Relations:** To concepts and categories, e.g. superordinate, subordinate, associate with,...
3. **Mappings:** For semantic mappings between multiple vocabularies
4. **Notes:** For additional information on the concepts, e.g. definitions, scope notes
5. **Forum:** To discuss with partners on concept level, e.g. level of match between mappings

#### Basic data

Vocabulary Media Sources log off

Welcome Vocabulary KMKG Nom de l'objet thesaurus Vocabulary ICCU-ICCD nom de l'objet thesaurus

Tree Search List

C Object name (en) (ID: 41875)  
C Animal equipment (en) (ID: 41931)  
C Applied decoration and motives (en) (ID: 41932)  
C **Architecture (en) (ID: 41877)**  
C Arm and armour (en) (ID: 41955)  
C Ceremonial object (en) (ID: 41881)  
C Container (receptacle) (en) (ID: 41922)  
C Costume and costume accessory (en) (ID: 41940)  
C Fastener and closure (en) (ID: 41940)  
C Furniture and furniture accessory (en) (ID: 41941)  
C Lighting device (en) (ID: 41930)  
C Means of communication (en) (ID: 41885)  
C Means of exchange (en) (ID: 41927)  
C Musical instrument (en) (ID: 42040)  
C Object form and derived object (en) (ID: 41941)  
C Object material (en) (ID: 41941)  
C Restraining and punishment equipment (en) (ID: 41884)  
C Sign and symbol (en) (ID: 41884)  
C Stone tool (en) (ID: 41939)  
C Toiletary and medical instrument (en) (ID: 41939)

Id: 41877  
Label: **Architecture (en)**  
Type: Concept

Basic data Relations Mappings Notes Forum

i Id: 41877  
i Type: Concept  
i Label: 

Label	Language	Role	Numerus	Variety	
Architecture	en	preferred			Sources (0)
Architecture	fr	preferred			Sources (0)
Architectuur	nl	preferred			Sources (0)

  
i URI: <http://kmgk.vocnet.org/41877>  
i Source: KMKG  
i ID source:  
i Creator:  
i Creation Date:  
i Last Change: Thursday, 2 February 2012, 13:11:20  
i Status: approved

#### Relations

Vocabulary Media Sources log off

Welcome Vocabulary KMKG Nom de l'objet thesaurus Vocabulary ICCU-ICCD nom de l'objet thesaurus

Tree Search List

C Object name (en) (ID: 41875)  
C Animal equipment (en) (ID: 41931)  
C Applied decoration and motives (en) (ID: 41932)  
C **Architecture (en) (ID: 41877)**  
C Arm and armour (en) (ID: 41955)  
C Ceremonial object (en) (ID: 41881)  
C Container (receptacle) (en) (ID: 41922)  
C Costume and costume accessory (en) (ID: 41940)  
C Fastener and closure (en) (ID: 41940)  
C Furniture and furniture accessory (en) (ID: 41941)  
C Lighting device (en) (ID: 41930)  
C Means of communication (en) (ID: 41885)  
C Means of exchange (en) (ID: 41927)  
C Musical instrument (en) (ID: 42040)  
C Object form and derived object (en) (ID: 41941)  
C Object material (en) (ID: 41941)  
C Restraining and punishment equipment (en) (ID: 41884)  
C Sign and symbol (en) (ID: 41884)  
C Stone tool (en) (ID: 41939)  
C Toiletary and medical instrument (en) (ID: 41939)

Id: 41877  
Label: **Architecture (en)**  
Type: Concept

Basic data **Relations** Mappings Notes Forum

i superordinate:  
C Object name (41875) (en) xt00291: BTG/NTG  
i subordinate:  
C Architectural element (41878) (en) xt00291: BTG/NTG  
C Single built work (41879) (en) xt00291: BTG/NTG  
i associate with:  
i assigned to:

## Mappings

The screenshot shows the 'Mappings' tab selected in the interface. The left sidebar contains a tree view of the thesaurus hierarchy, with 'Architecture (en) (ID: 41877)' highlighted. The main panel displays the following information:

- Id:** 41877
- Label:** Architecture (en)
- Type:** Concept

The 'Mappings' tab shows the following details:

- identifier:** <http://iccu.vocnet.org/3>
- Identifier type:** URI
- Mapping type:** exact match
- source:**
- label:**

## Notes

The screenshot shows the 'Notes' tab selected in the interface. The left sidebar contains a tree view of the thesaurus hierarchy, with 'Architecture (en) (ID: 41877)' highlighted. The main panel displays the following information:

- Id:** 41877
- Label:** Architecture (en)
- Type:** Concept

The 'Notes' tab shows the following details:

- Note type:** Scope Note
- regarding term:**
- Text:** Topterm voor architecturale elementen en onderdelen van architecturale elementen
- source:**
- Creating date:**
- Text type:** literal
- Text language:** Dutch

## Forum

The screenshot shows the 'Forum' tab selected in the interface. The left sidebar contains a tree view of the thesaurus hierarchy, with 'Architecture (en) (ID: 41877)' highlighted. The main panel displays the following information:

- Id:** 41877
- Label:** Architecture (en)
- Type:** Concept

The 'Forum' tab shows the following details:

- user:** axelv
- created at:** Thursday, 19 January 2012, 19:26:46
- title:** mapping to iccu-iccd
- theme:** semantic mapping
- text:** mapping to <http://iccu.vocnet.org/3> > architecture: closeMatch or exactMatch?




## 4. Editing mode


### 4.1 Main symbols

- Add 
- Edit 
- Delete 
- Cancel 
- Save 


### 4.2 Create a new entry

1. Add a new concept to your vocabulary: click  sign in upper right corner or by a right mouse click on a concept in the tree
2. Complete Basic data<sup>3</sup>:
  - **Label:**
    - *Label*: enter term or phrase in a natural language
    - *Language*: define the language of the lexical label
    - *Role*: define if the lexical label is
      - Preferred: the preferred lexical label assigned to a concept. Can only be used 1 time per language
      - Alternative: e.g. for synonyms, near-synonyms, abbreviations, acronyms,...
      - Hidden: e.g. for misspelled words. The hidden label is meant to be accessible to applications performing text-based indexing and search operations. The hidden label is not visible, it is meant to redirect the user to the alternative label.
  - *Numerus*: define if term is
    - Singular
    - Plural
    - Undefined
  - *Variety*: possible to define if lexical label is
    - Standard
    - Short form
    - Regional variety
    - Specialised terminology
    - Restricted language
    - Official language

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<sup>3</sup> Only the basic functionalities are explained in this document. More information can be obtained by pointing your mouse arrow at the  in front of each entry field. A pop-up will give you additional information on the meaning of the fields.

- Vernacular

More lexical labels can be added to the same concept by clicking on  **New term**.

! Note that the notion of preferred label implies that the conceptual resource can only have one such preferred label per language tag.

Multiple alternative and/or hidden labels can be given per natural language.

**Status:** define if the new concept is a

- Candidate
- Approved
- Deprecated
- In process

3. Save new concept in upper right corner



Add a new concept (by click on green plus sign)

The screenshot displays the KMKKG Vocabulary Management Interface. On the left, a tree view lists various concepts, with 'Object name (en) (ID: 41875)' selected. The main panel shows the details for this concept. In the top right corner, a green plus icon is highlighted with a red box, and a tooltip reads 'new vocabulary item (at root level)'. Below this, the 'Basic data' tab is active, showing the following information:

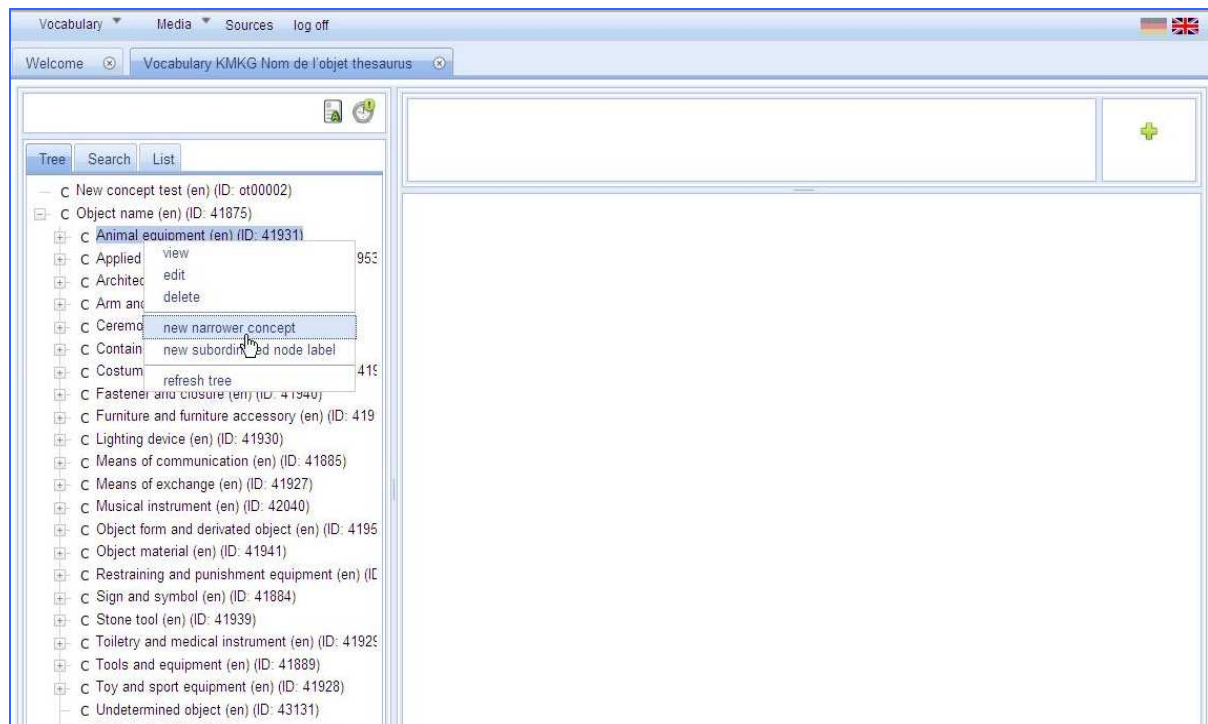
- Id:** 41875
- Label:** Object name (en)
- Type:** Concept
- URI:** http://kmmkg.vocnet.org/41875
- Source:** KMKKG
- ID source:**
- Creator:**
- Creation Date:**
- Last Change:**
- Status:** approved
- Notation:**
- Start time:**
- End time:**

The 'Label' section includes a table with the following data:

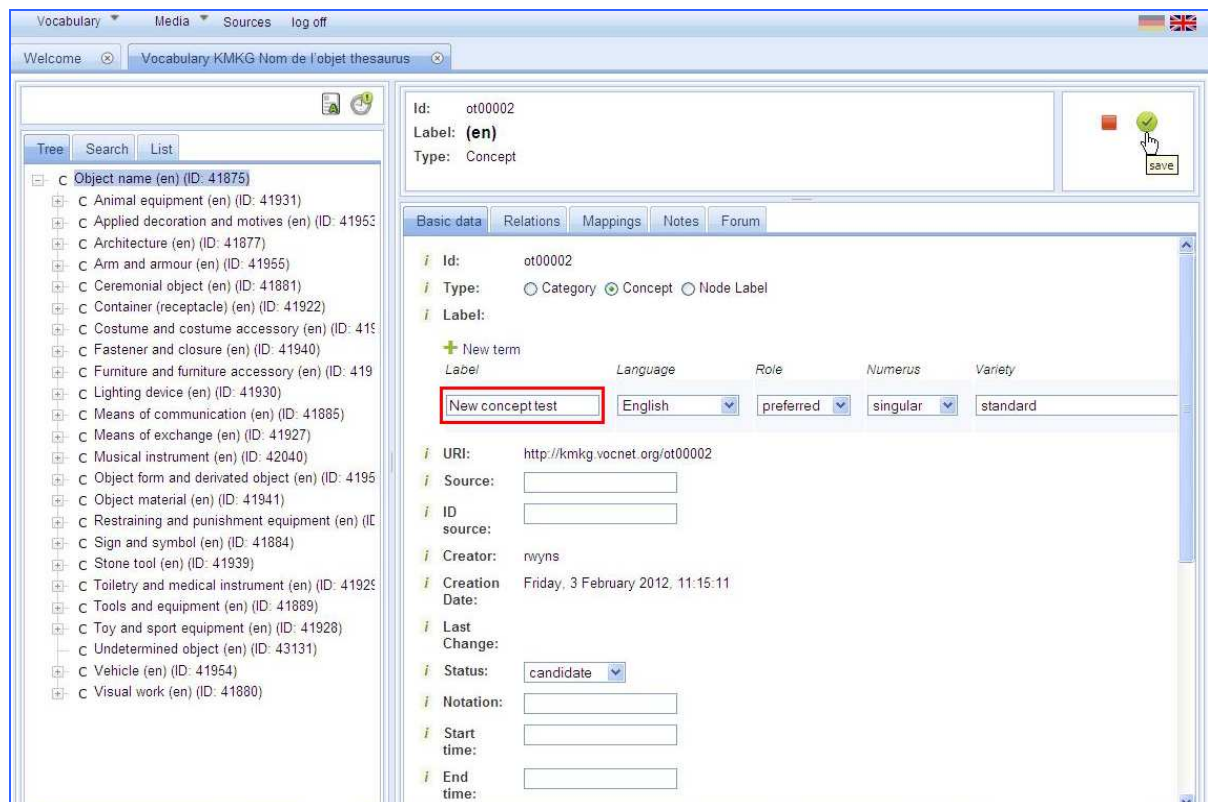
Label	Language	Role	Numerus	Variety
Object name	en	preferred		
Nom de l'objet	fr	preferred		
Objectnaam	nl	preferred		

Each row in the table has a '> Sources (0)' link to its right.

## Add new concept (by right click on mouse)



## Enter lexical label






## Enter multiple lexical labels


The screenshot shows the 'Vocabulary KMG Nom de l'objet thesaurus' interface. On the left is a tree view of concepts. The main area displays the 'Basic data' tab for a concept with ID 'ot00002'. The 'Label' field contains 'New concept test'. A dropdown menu for language selection is open, showing options from Bulgarian to Lithuanian, with 'English' selected. Below the language dropdown, there are fields for 'Role', 'Numerus', and 'Variety', each with a dropdown menu. The 'Role' dropdown is set to 'alternative', 'Numerus' to 'singular', and 'Variety' to 'standard'. There are also checkboxes for 'preferred', 'singular', and 'standard'. At the bottom, there are fields for 'URI', 'Source', 'ID', 'source', 'Creator', and 'Creation Date'.

### 4.3 Define semantic relations to other concepts within the same vocabulary

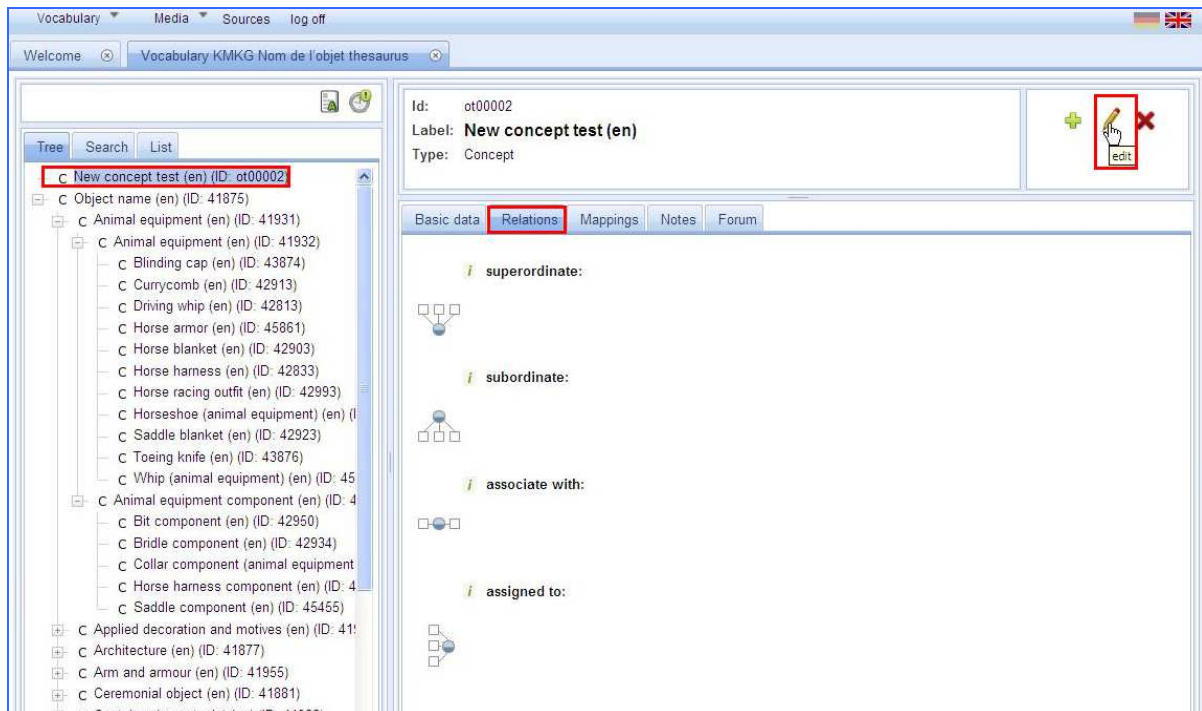
Semantic relations play a crucial role in defining the meaning of a concept. The meaning of a concept is not only defined by the natural language words but also by the position of the concept in relation to other concepts in the vocabulary.

To define the semantic relation of a concept to another concept in the tree:

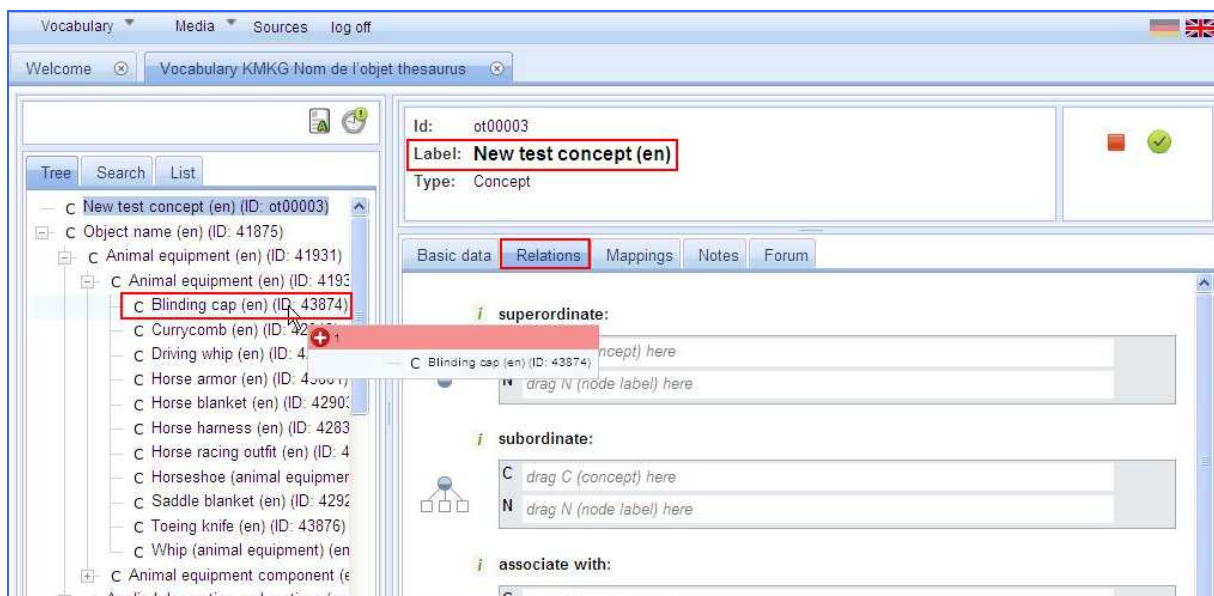
1. Select the (new) concept to be repositioned in the tree
2. Click the tab Relations
3. Click edit  in the upper right corner of the screen. Relations will appear.
4. Click on a concept in the tree and drag it to the relation of choice for the previously selected concept:
  - **Superordinate:** This relationship comprises broader concepts as well as superordinate categories and node labels. This implies that the subject of the statement is a more specific concept that has a broader concept with a more generic in meaning.
  - **Subordinate:** This relationship comprises narrower concepts as well as subordinate categories and node labels
  - **Associate with:** This relationship comprises related concepts and see-also-references between categories
  - **Assigned to:** A concept assigned to a category. Note: This relationship is not a logical super-/subordination

5. When the dragged concept turns from red to green, release concept and the relation is added. More relations to the same concept can be added in a single edit
6. Click on  to save relations

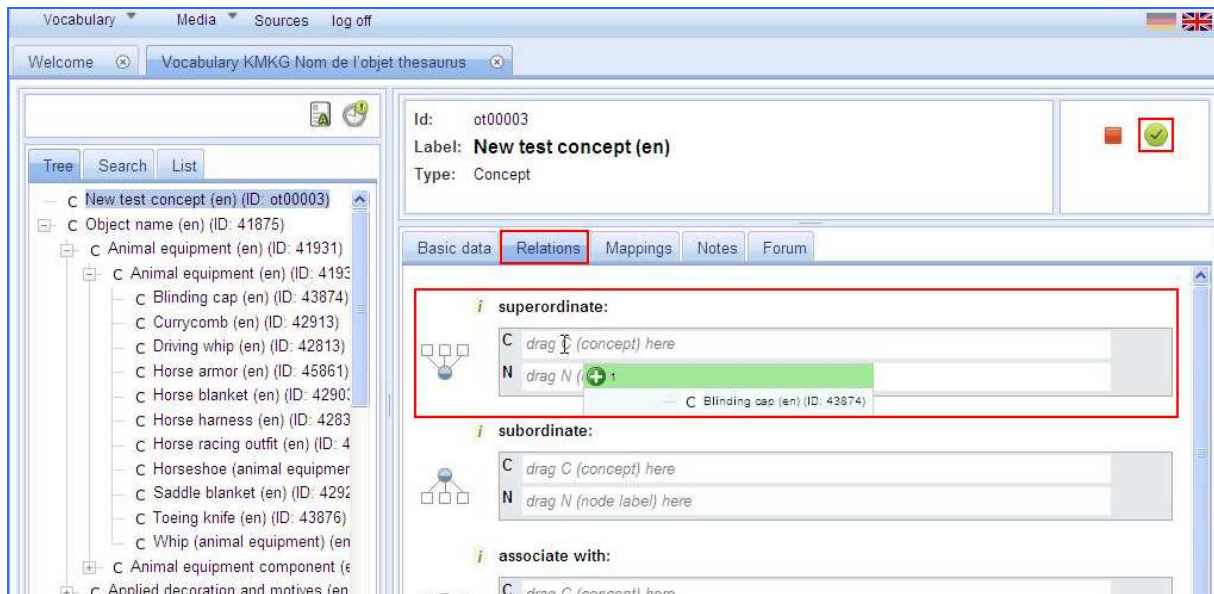
## Define relations to other concepts



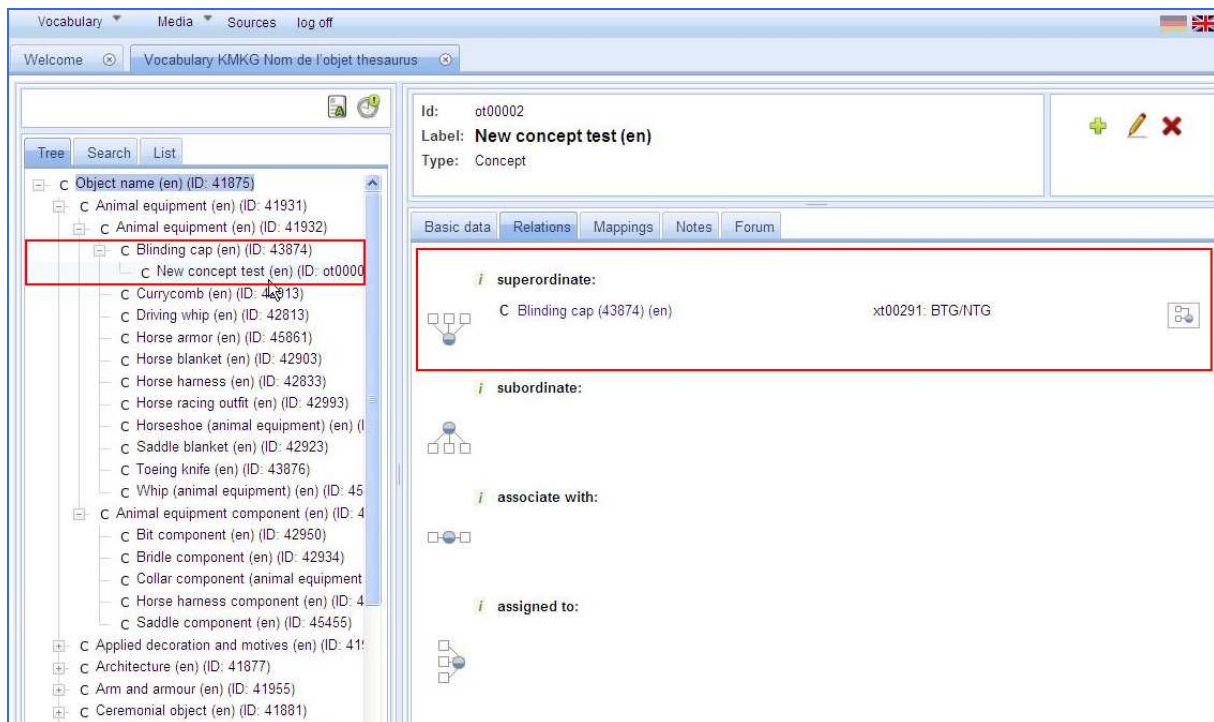
## Select and drag concept to relation of choice



Drop concept (when green) to relation of chose and save






Concept is repositioned in tree



#### 4.4 Add notes to concept

To add notes of different kinds (e.g. Scope note, Definition, Annotation) to a selected concept:

1. Select tab Notes and click edit  in the upper right corner of the screen.
2. Click on  Additional note (more than one additional note can be added)
3. Enter information and save 

[illegible]

Vocabulary Media Sources log off

Welcome Vocabulary KMGK Nom de l'objet thesaurus

Tree Search List

Object name (en) (ID: 41875)

- C Animal equipment (en) (ID: 41931)
  - C Animal equipment (en) (ID: 41932)
    - C Animal equipment component (en) (ID: 419)
- C Applied decoration and motives (en) (ID: 41953)
- C Architecture (en) (ID: 41877)
- C Arm and armour (en) (ID: 41955)
- C Ceremonial object (en) (ID: 41881)
- C Container (receptacle) (en) (ID: 41922)
- C Costume and costume accessory (en) (ID: 419)
- C Fastener and closure (en) (ID: 41940)
- C Furniture and furniture accessory (en) (ID: 419)
- C Lighting device (en) (ID: 41930)
- C Means of communication (en) (ID: 41885)
- C Means of exchange (en) (ID: 41927)
- C Musical instrument (en) (ID: 42040)
- C Object form and derived object (en) (ID: 4195)
- C Object material (en) (ID: 41941)
- C Restraining and punishment equipment (en) (ID: 41884)
- C Sign and symbol (en) (ID: 41884)
- C Stone tool (en) (ID: 41939)
- C Toiletry and medical instrument (en) (ID: 41925)
- C Tools and equipment (en) (ID: 41889)
- C Toy and sport equipment (en) (ID: 41928)

Id: ot00002

Label: **New concept test (en)**

Type: Concept

Basic data Relations Mappings Notes Forum

Note type: Scope Note

regarding term: New concept test (en)

Text: testtesttesttest

source: RW




Creating date: Friday, 3 February 2012, 13:55:16

Text type: literal

Text language: English

#### 4.5 Semantic mapping between vocabularies

To connect a concept from one vocabulary to a matching concept in another vocabulary:

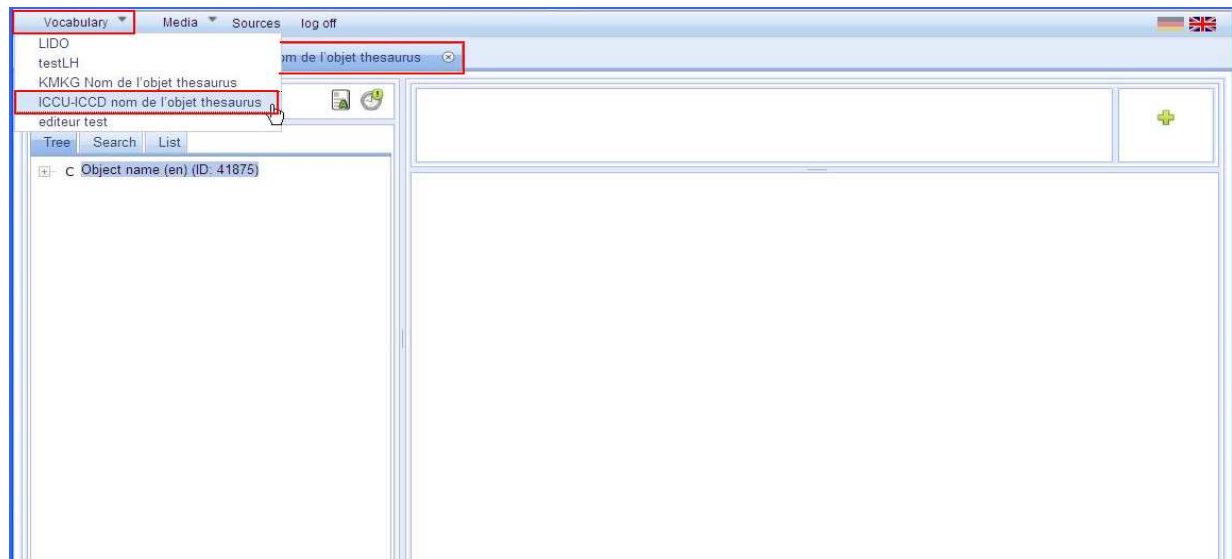
1. Open the vocabularies you want to connect to each other in **Vocabulary**
2. Select the concept in your vocabulary you want to map
3. Go to the other vocabulary and search for a matching concept<sup>4</sup>:
  - By browsing through the tree
  - By using the search function. For searching on a partial word, use asterisk (e.g. \*furniture\*).
4. When finding a 'matching' concept, copy the **URI** in basic data and go back to the concept in your vocabulary
5. Open the mapping tab and click on edit  and create a new mapping for the selected concept by clicking on Additional mapping  **Weiteres Mapping** in the mapping tab
6. Complete mapping information:
  - **Identifier:** Paste the URI from the matching concept in this field
  - **Identifier type:** Select URI
  - **Mapping type:**
    - Exact match: Exact equivalence, identical in meaning and capable of functioning as a preferred term (e.g. adminstration = administración)
    - Close match: Same general concept, although the meaning of these terms are not precisely identical (e.g. crown property ≅ patrimonio nacional)
    - Broad match: The concept of the target schema you want to map to has a broader meaning than your vocabulary concept (e.g. Obelisk < Monument)
    - Narrow match: The concept of the target schema you want to map to has a narrower meaning than your vocabulary concept (e.g. Animal > Mammal)
    - Related match: Associate relationship between two concepts
7. Save changes 

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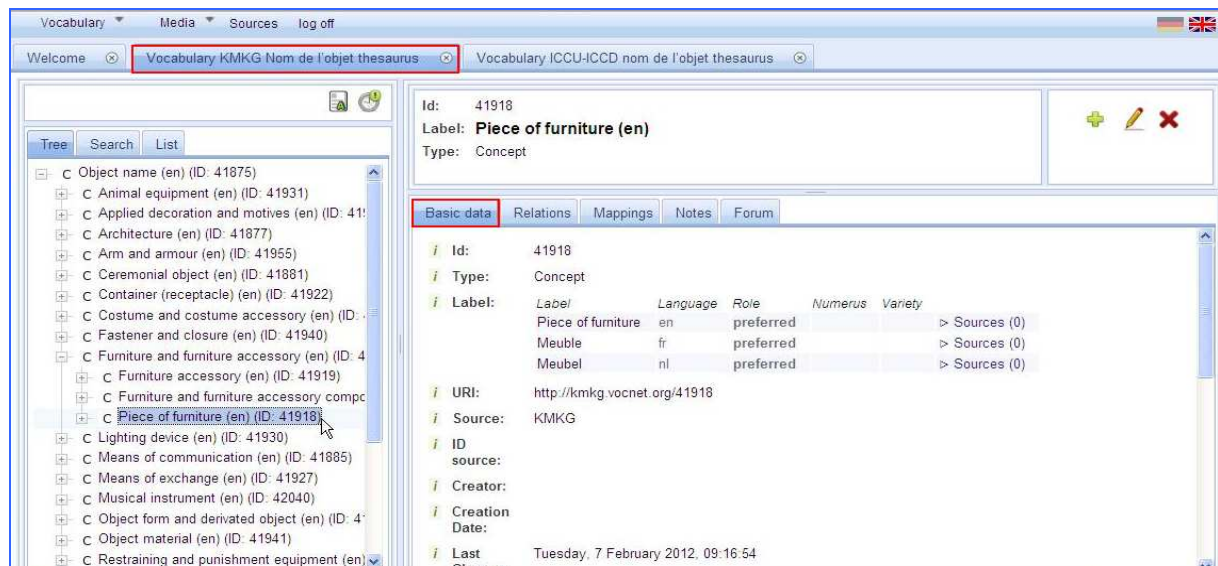
<sup>4</sup> To find a matching concept you need to take into account the natural languages of the vocabulary you want to map to. If the vocabulary is only available in Italian, you won't be able to find a match in English. Therefore it is better to always make your terminology bilingual (e.g. with English as the pivot language). In this way people can map to your vocabulary more easily. If the concepts are only in one language and you still want to try to make a mapping, you can use of Google translate and/or other online dictionaries in combination with the Forum (see point 5) to discuss with your colleagues the correctness of the mapping



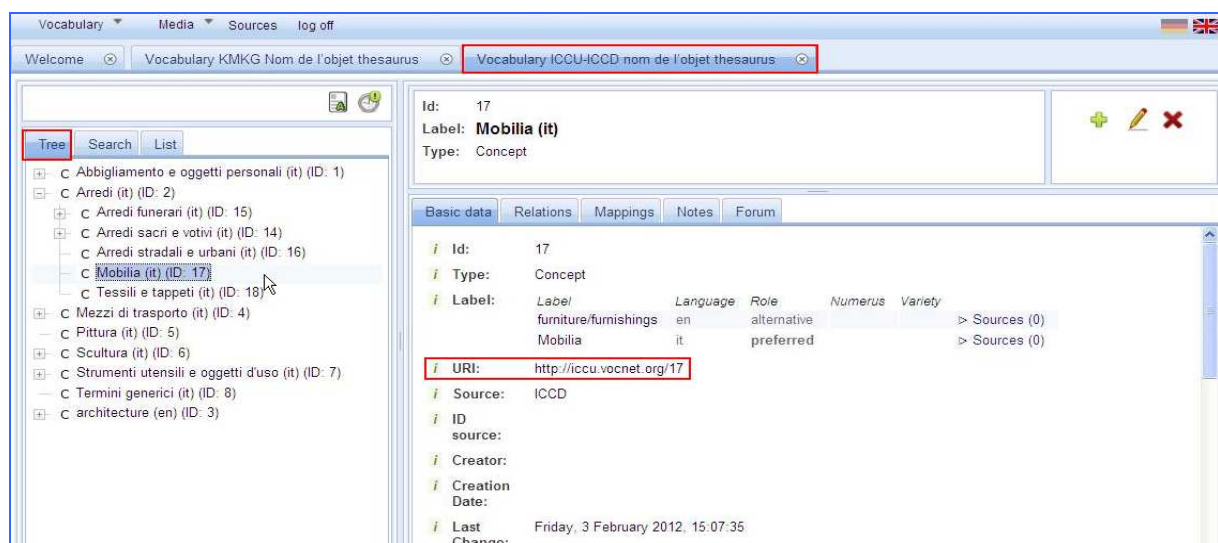
## Open multiple vocabularies



## Select concept from own vocabulary



## Search for matching concept in other vocabulary - Browse through the tree



## When finding a matching concept, copy URI

The screenshot shows the ICCU-ICCD interface. On the left, a search bar contains '\*furniture\*' and a list of results shows 'C furniture/furnishings (17) (en)'. On the right, the details for concept 17 are displayed. The label is 'Mobilia (it)' and the type is 'Concept'. The URI is 'http://iccu.vocnet.org/17', which is highlighted. A context menu is open over the URI, showing options: 'Kopieren', 'Alles selecteren', 'Zoeken bij Google naar "http://iccu.vocnet.org/17"', and 'Bron van selectie bekijken'. The 'Mappings' tab is selected in the top navigation bar.

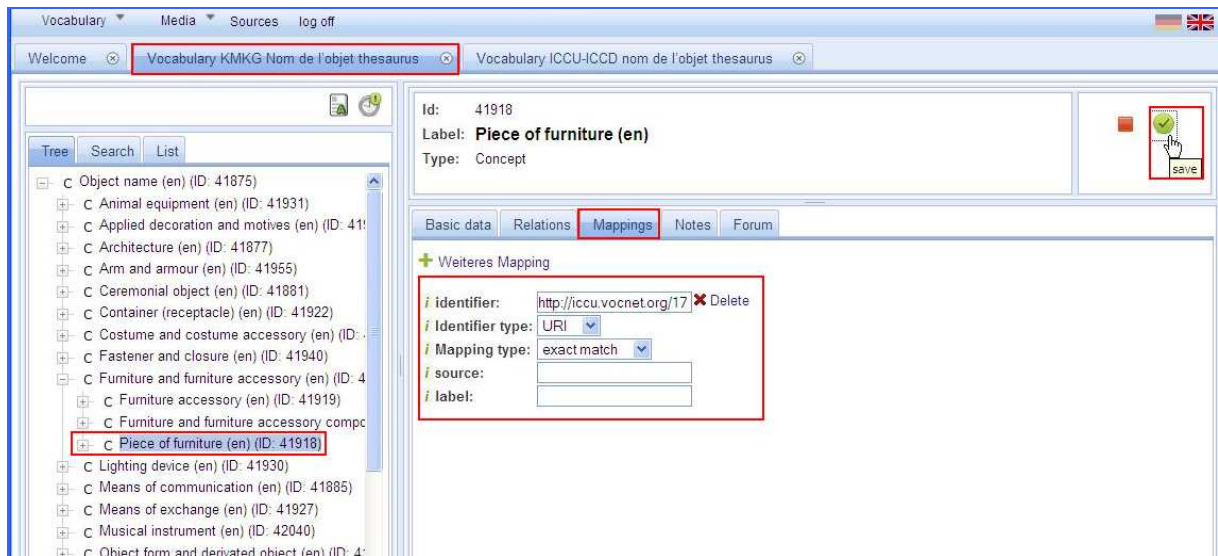
## Select mapping tab and edit in own vocabulary

The screenshot shows the ICCU-ICCD interface. On the left, a tree view shows a hierarchy of concepts, with 'C Piece of furniture (en) (ID: 41918)' selected. On the right, the details for concept 41918 are displayed. The label is 'Piece of furniture (en)' and the type is 'Concept'. The 'Mappings' tab is selected in the top navigation bar. An 'edit' button is highlighted in the top right corner.

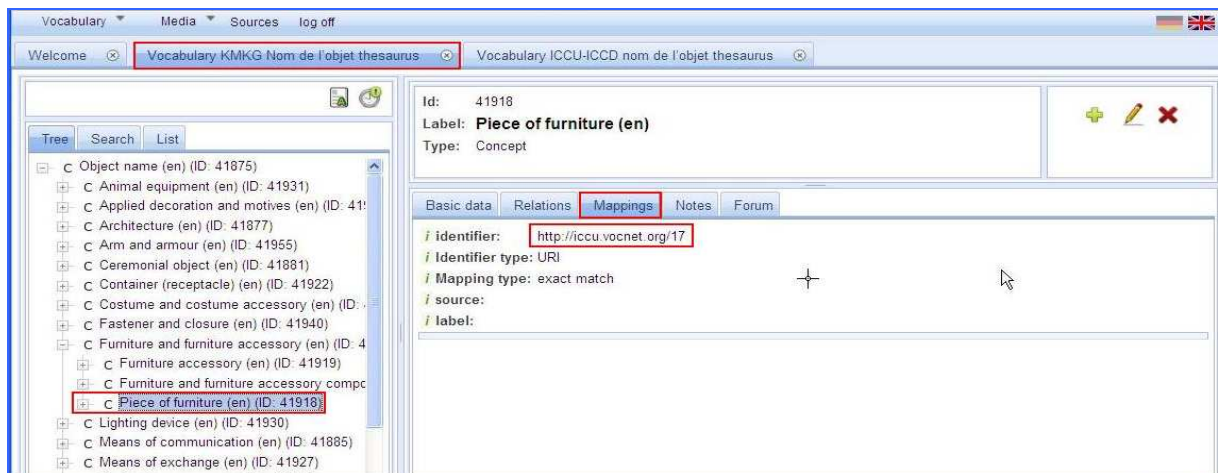
## Add a new mapping

The screenshot shows the ICCU-ICCD interface. On the left, a tree view shows a hierarchy of concepts, with 'C Piece of furniture (en) (ID: 41918)' selected. On the right, the details for concept 41918 are displayed. The label is 'Piece of furniture (en)' and the type is 'Concept'. The 'Mappings' tab is selected in the top navigation bar. A '+ Weiteres Mapping' button is highlighted in the bottom left corner.

## Paste URI in identifier, set types and save mapping



Concept Piece of furniture (Vocabulary KMKG) is mapped to concept Mobilia (Vocabulary ICCU-ICCD)



## 5. Forum

The forum can be used to discuss the work being done in Xtree (e.g. comments on mappings between vocabularies, comments on scope notes, on relations to other concepts, etc.)

To add a forum discussion on concept level:

1. Click on the concept and open Forum tab
2. Click on the editing pencil 
3. Create (additional) forum entries  Additional forum entry, or edit/delete existing entry
4. Save changes 

### Add a new forum entry and save

Vocabulary Media Sources log off

Welcome Vocabulary KMSG Nom de l'objet thesaurus

Tree Search List

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Label: **Architecture (en)**  
Type: Concept

Basic data Relations Mappings Notes **Forum**

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/ user: axelv

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/ title: mapping to iccu-iccd

/ theme: semantic mapping

/ text: mapping to <http://iccu.vocnet.org/3> > architecture:  
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