Issue Topic

Update the modelling constructs found under The Model\Use&Learn\Functional Overview

Overall Issue Topic

Keeping the diagrams in The Model\Use&Learn\Functional Overview up to date with the official version.

Website Issue Link

https://cidoc-crm.org/Issue/ID-628-update-the-modelling-constructs-found-under-the-moduselearnfunctional-overview

Present State of Issue

At the 57th SIG meeting, George showed the diagrams he had redone for CIDOC CRM 5.0.4 using the CHIN library for representing the CRM.
At the time, the SIG appointed Christian-Emil to check which modeling constructs appearing in the Graphical Representation are still valid for v7.1.3 "Official (ISO Correspondence) and which ones need to undergo editing. Also, to identify the modeling constructs that were introduced in the official documentation later than the release of v5.0.4.

A few editorial rounds have taken place in the meantime.
Christian-Emil annotated the **original slides** for v5.0.4 (here)
Eleni transferred these annotations to the 5.0.4 diagrams (see here, and here for the diff file), plus made a list of the classes and properties appearing in v7.1.3 that are missing from the original diagrams.

- Nb. the diagrams have been updated using the CHIN library for v6.2.1, so they will eventually be redone, as Philippe and Trang have incorporated new features to the new library for v7.1.3

Also: the **figures in CIDOC CRM v7.1.3** have been redone in draw.io
They can be found here –they need to be updated using the new CHIN library.

For Discussion

Some of the changes are editorial and just need to be implemented (quantification of a property changed and needs to be edited f.i.)
Some others have more substance:

Slides that need editing

Spatial Temporal Relationships

Original slide here -**remarks**:
1. Allen properties need to be replaced with temporal primitive properties or with CRMarchaeo properties
2. E92 Spacetime Volume needs to be introduced and the domain & range of P132, P133 need to be adjusted accordingly
3. Properties for time and place need to be added
   a. The same holds for E93 Presence and properties

The slide has been remade with the above points in mind–see here. Needs checking.

Timespan information

Needs redoing, E4 needs to be disengaged from P10 (here with some comments)

Group dynamics

Here need to add P151 was formed from (participated in)

Object Collection Information

Here
Need to add the following properties – the slide is purportedly about collections
1. P109 has former or current curator,
2. P147 curated

Object Name and Classification

Here
Add P38 deassigned

Duplicating classes in diagrams

1) **Material and Technique Information slide**:
   a) E55 Type, and E11 Modification appear twice, one instance marked with a shaded pattern. We either need to add this to the legend and specify how to represent this in draw.io (dots, or other), or to omit this feature altogether (.pptx vs draw.io)
2) **Planned Activities 1 (design, purpose, use)**
   a) Two instances of E7 Activity, E55 Type, inheritance from E1 is a bit weird (see original). The diagram has been redone (see here), but the point is we need to clarify if we will allow duplicating classes in the same diagram, and how to represent them in a consistent manner.
3) **Planned Activities 2 (design, purpose, use)**

a) P2 has type is referenced, although it's not strictly necessary, and results in having to duplicate the E55 class (see original). The diagram has been redone (here).

4) **Applies to some diagrams**: inherited properties are marked using a dashed line (according to the legend), however, many diagrams go higher than necessary
   a) Object Association Information slide goes as far up as E4 and E2, just to reference P4 has time span and P7 took place at, whereas their range could have been restricted to E5 Event by a dashed arrow (here).
   b) Object Name and Classification slide marks E13 isa E7 (but the color scheme makes this redundant).
   c) Institution Information slide goes up to E1 (to make the connection with E55 Type, but that connection could be marked on E77 as an inherited relation) (here)
   d) Attribute Assignment slide goes up to E1 (to declare P2 and P3) then just lists E5 isa E1, E7 isA E5 and only then talks about E13 Attribute Assignment (here)
   e) Person Nationality Information slide connects E67 Birth to E4 Period, via P10 falls within. It's an inherited relation, but I'm not sure why we would prefer it over P9i forms part of (consists of). Probably reflects the state of the model when P10 took E4 as domain and range.

Deprecated properties with alternating migration paths:

P88 consists of (forms part of): the migration path dictates that
"If used as a geometric decomposition, use P89i contains. If the respective place is defined in the source by an instance of E26 Physical Feature, and the use of P88 consists of aims at describing its decomposition into its natural components, describe explicitly in the migration target the instance of E26 Physical Feature and its parts using P46 is composed of".
- Relevant for diagram "Location Information 2"

Action to be Taken

1. Decide on how to deal with inherited properties (domain/range restrictions)
2. Decide what to do wrt duplicating classes in the diagrams (conditions for doing so)
3. Approve and/or proceed to edit slides:
   a. Spatial Temporal Relationships
   b. Timespan information
   c. Group dynamics
   d. Object Collection Information
   e. Planned Activities 1
   f. Planned Activities 2
4. Assign HW to include missing classes/properties in the diagrams (list here)
5. Redo all the diagrams for Functional Overview using the new CHIN library (to be handled by George)

6. Redo all the diagrams for v7.1.3 using the new CHIN library (to be handled by George)