

Dixit – ICS-FORTH Knowledge Exchange

George Bruseker (ICS-FORTH)

March 28, 2017

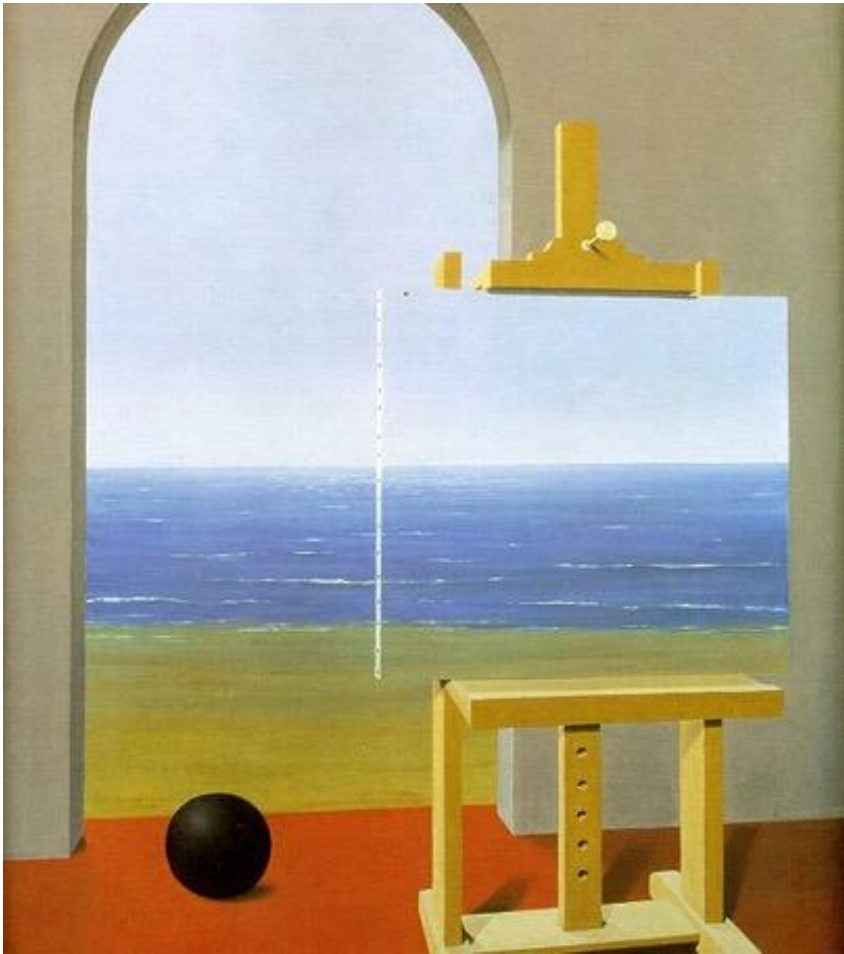
Crete, Greece

Agenda

1. What is a formal ontology and what is it good for?
2. High Level Overview to CIDOC CRM
3. Discussion of CIDOC CRM Extensions
 - a. FRBRoo: for documenting creative processes
 - b. CRMinf: for documenting argumentation
4. How to use CIDOC CRM

1. WHAT IS A FORMAL ONTOLOGY?

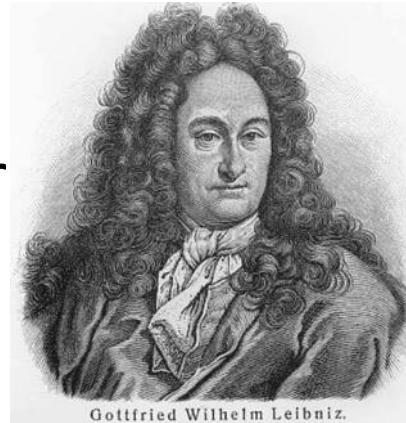
What is an ontology? (What is it not?)



- A window / frame which allows expression of the world according to the kinds of statements used by a domain(s)
- Not a description of the world as such (not Ontology)
- Plural not singular
- Heidegger's 'domain ontology'

What is an ontology? (What is it not?)

- Mix of computer science and philosophy
- Bridge between computer science world and data producers/researchers
- Formalization of knowledge domain
- Bound to a reality
- Creates a *pidgin* or *lingua franca*
- Machine Processable, Human Readable



"A Universal Symbolism, very popular, very agreeable to the people...might be introduced if small figures were employed in the place of words, which would represent visible things by their lines, and the invisible, by the visible, which accompany them."

— Leibniz, 1679



Increased knowledge?

Why?
Specialists
(stuck?)
in their worlds



observe



input

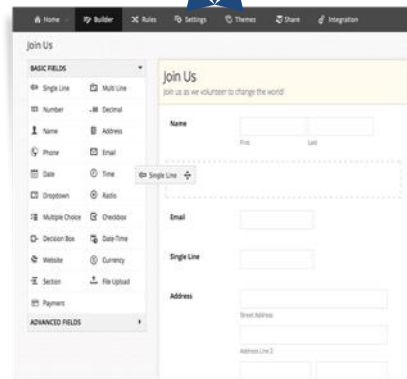


publish

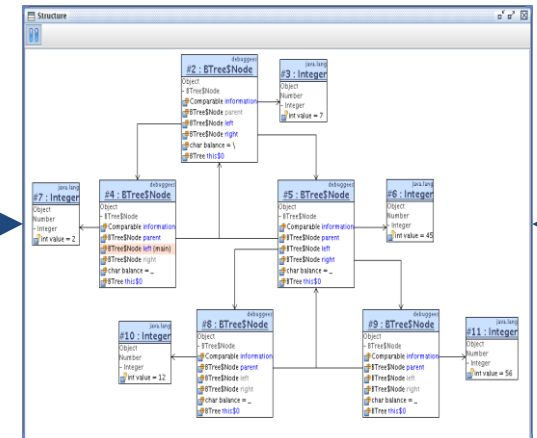
ground



Reach /
understand
/ critique



store



The real data/research situation on the ground



One world

Heterogeneity of Actors

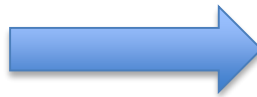
- Many researchers
 - Many research questions
 - Many research methods
- Many institutions
 - Many institutional policies

Heterogeneity of Technology

- Many data standards
- Many data formats
- Many data entry/storage/retrieval tools

Heterogeneity of Means

- Different financial constraints
- Different levels of ICT support



leads to



**Intractable
Data
Heterogeneity**



about



requires



**Methodological
Solution**

The Crimea Conference Example

- Researcher wants to find all evidence and relevant material to Crimea conference
- Researcher wants to use textual sources, photographic archive and relevant geographic data to understand context and elements of this historic moment
- One standard won't do, and two or more standards leaves the data unrelated



Crimea Conference

Historical Archives....

Field	Value
Type	Text
Title	Protocol of Proceedings of Crimea Conference
Subtitle	Declaration of Liberated Europe
Date	February 11, 1945
Creator	<ul style="list-style-type: none">• The Premier of the Union of Soviet Socialist Republics• The Prime Minister of the United Kingdom• The President of the United States of America
Publisher	State Department
Subject	Postwar division of Europe and Japan

metadata for

**Standard:
Dublin Core OR
EAD?**

*Protocol of the Proceedings of the Crimea (Yalta) Conference,
February 11, 1945¹*

[Extracts]

III. DISMEMBERMENT OF GERMANY

It was agreed that Article 12 (a) of the Surrender Terms for Germany should be amended to read as follows:

“The United Kingdom, the United States of America and the Union of Soviet Socialist Republics shall possess supreme au-

¹ Department of State press release 239, March 24, 1947.

DOCUMENTS ON GERMANY, 1944–59

9

thority with respect to Germany. In the exercise of such authority they will take such steps, including the complete disarmament, demilitarisation and dismemberment of Germany as they deem requisite for future peace and security.”

The study of the procedure for the dismemberment of Germany was referred to a Committee, consisting of Mr. Eden (Chairman), Mr.

Documents

Crimea Conference

Images, non-textual objects...

Standard:
Dublin Core OR
IPTC?

Field	Value
Type	Image
Title	Allied Leaders at Yalta
Date	1945
Publisher	United Press International (UPI)
Source	The Bettman Archive
Copyright	Corbis
References	Churchill, Roosevelt, Stalin

about



Photographs

Crimea Conference

Places and Objects

Field	Value
TGN ID	7012124
Names	Yalta (C,V), Jalta (C,V)
Types	inhabited place(C), city (C)
Position	Lat: 44 30 N,Long: 034 10 E
Hierarchy	Europe (continent) <– Ukrayina (nation) <– Krym (autonomous republic)
Note	...Site of conference between Allied powers in WW II in 1945;
Source	TGN, Thesaurus of Geographic Names

about

**Standard:
TGN OR
Geonames?**

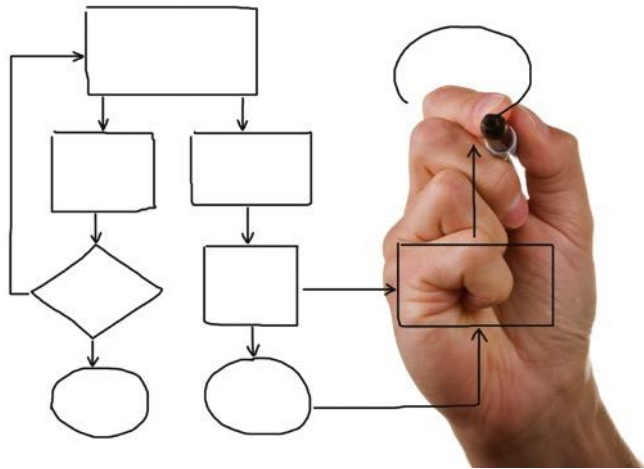


Places

We need: a different approach



How is an ontology a solution? What can we hope for from it?



- Creates a general data form to which multiple heterogeneous data formats can be mapped
- Helps control polysemy problems (at schema level)
- In its production builds general concepts which can be used for high level information recall
- Extensible so that new knowledge can be integrated without requiring rethinking the ontology's basic divisions
- Creates compatibility
- Allows for automatic reasoning

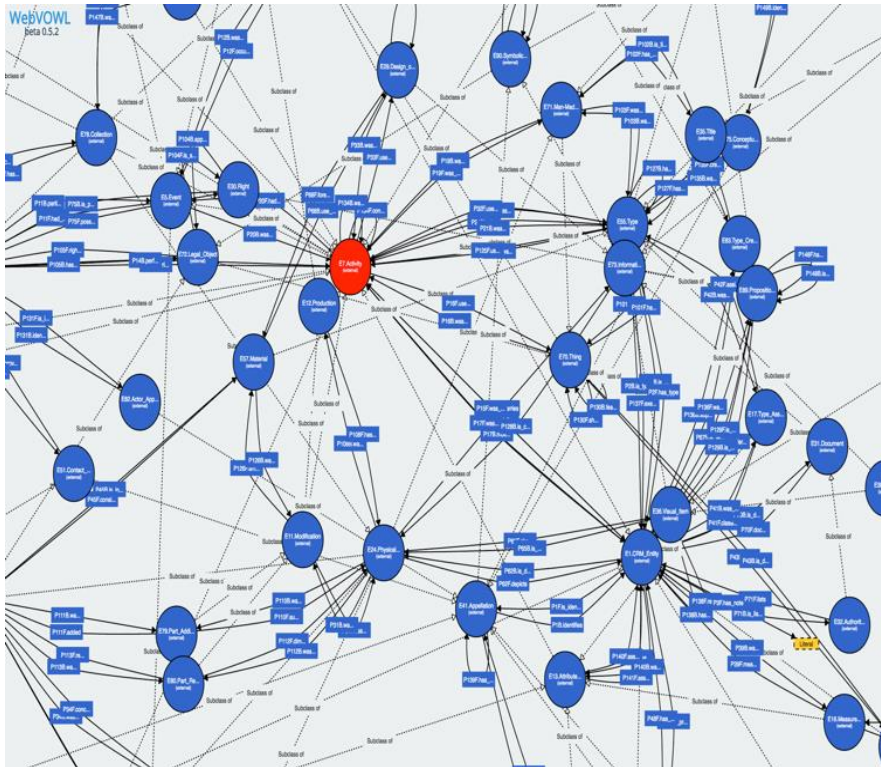
What does an ontology look like?

Scope: a definition of the intended field of discourse/reality that the formal ontology should cover.

Classes: universals meant to represent some set of entities in the world of discourse, that have a distinct, identifiable behaviour and identity.

Properties: the relations that exist between classes in the ontology. These formally define the possible relations between classes and their meaning.

IsA Hierarchy: identifies generalization/specialization relations



Anatomy of a Class

The Label: arbitrary but identifying

Subclass/Supersubclass: Place in ISA

The Scope Note: gives the meaning,
the intension. First thing to check!

The Examples: helps to verify...
do others think/do it like you do

The Properties: more verification of
appropriateness.

How does it relate to other
concepts? Is this how my concept
behaves?

[E5 Event](#)

Subclass of: [E4 Period](#)
Superclass of: [E7 Activity](#)
[E63 Beginning of Existence](#)
[E64 End of Existence](#)

Scope Note: This class comprises changes of states in cultural, social or physical systems, regardless of scale, brought about by a series or group of coherent physical, cultural, technological or legal phenomena. Such changes of state will affect instances of [E77 Persistent Item](#) or its subclasses.

The distinction between an [E5 Event](#) and an [E4 Period](#) is partly a question of the scale of observation. Viewed at a coarse level of detail, an [E5 Event](#) is an 'instantaneous' change of state. At a fine level, the [E5 Event](#) can be analysed into its component phenomena within a space and time frame, and as such can be seen as an [E4 Period](#). The reverse is not necessarily the case: not all instances of [E4 Period](#) give rise to a noteworthy change of state.

Examples:

- * the birth of Cleopatra ([E67](#))
- * the destruction of Lisbon by earthquake in 1755 ([E6](#))
- * World War II ([E7](#))
- * the Battle of Stalingrad ([E7](#))
- * the Yalta Conference ([E7](#))
- * my birthday celebration 28-6-1995 ([E7](#))
- * the falling of a tile from my roof last Sunday
- * the CIDOC Conference 2003 ([E7](#))

Properties

[P1 is identified by \(identifies\): E41 Appellation](#)

[P137 exemplifies \(is exemplified by\): E55 Type](#)
([P137.1 in the isonomic role: E55 Type](#))

[P2 has type \(is type of\): E55 Type](#)

[P11 had participant \(participated in\): E39 Actor](#)

[P12 occurred in the presence of \(was present at\): E77 Persistent Item](#)

[P8 took place on or within \(witnessed\): E19 Physical Object](#)
(short cut of: [E46 Section Definition](#))

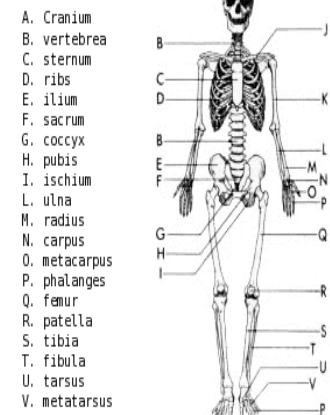
[P7 took place at \(witnessed\): E53 Place](#)

[P4 has time-span \(is time-span of\): E52 Time-Span](#)

[P120 occurs before \(occurs after\): E2 Temporal Entity](#)
[P119 meets in time with \(is met in time by\): E2 Temporal Entity](#)
[P118 overlaps in time with \(is overlapped in time by\): E2 Temporal Entity](#)
[P117 occurs during \(includes\): E2 Temporal Entity](#)
[P116 starts \(is started by\): E2 Temporal Entity](#)
[P115 finishes \(is finished by\): E2 Temporal Entity](#)
[P114 is equal in time to: E2 Temporal Entity](#)
[P10 falls within \(contains\): E4 Period](#)
[P9 consists of \(forms part of\): E4 Period](#)
[P132 overlaps with: E4 Period](#)
[P133 is separated from: E4 Period](#)

[P3 has note: E62 String](#)
([P3.1 has type: E55 Type](#))

human skeleton



Anatomy of a Property

The Label: arbitrary but identifying

The Domain: The set of classes from which the property can originate

The Range: the set of classes to which the property can join the domain class

Superproperty/subproperty: Place in IsA Hierarchy

The Scope Note: gives the meaning, the intension. First thing to check!

The Examples: helps to verify...
do others think/do it like you do

P1 is identified by (identifies)

Domain: [E1](#) CRM Entity

Range: [E41](#) Appellation

Superproperty of: [E1](#) CRM Entity. [P48](#) has preferred identifier (is preferred identifier of): [E42](#) Identifier

[E52](#) Time-Span. [P78](#) is identified by (identifies): [E49](#) Time Appellation

[E53](#) Place. [P87](#) is identified by (identifies): [E44](#) Place Appellation

[E71](#) Man-Made Thing. [P102](#) has title (is title of): [E35](#) Title

[E39](#) Actor. [P131](#) is identified by (identifies): [E82](#) Actor Appellation

[E28](#) Conceptual Object. [P149](#) is identified by (identifies): [E75](#) Conceptual Object Appellation

Quantification: many to many (0,n:0,n)

Scope note: This property describes the naming or identification of any real world item by a name or any other identifier.

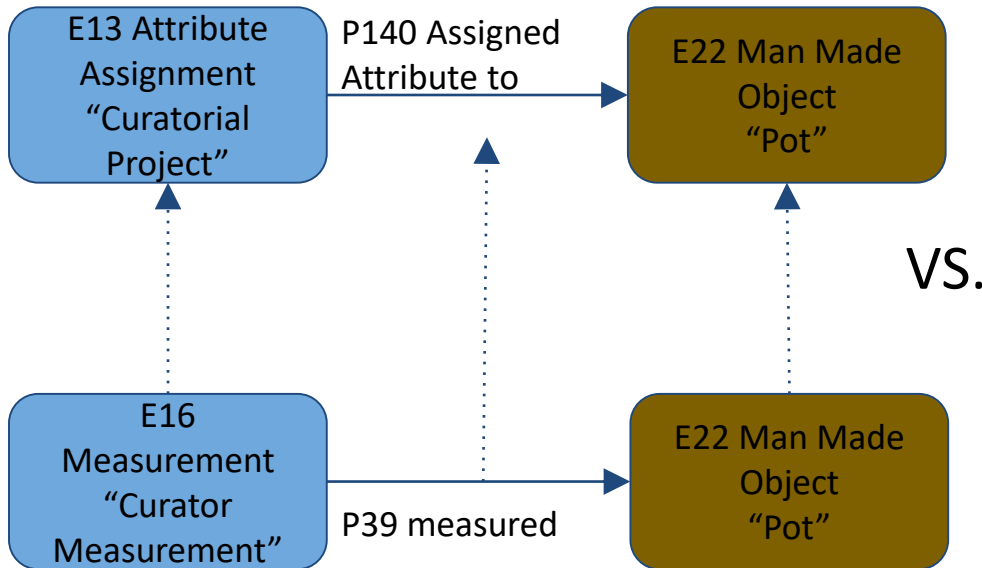
This property is intended for identifiers in general use, which form part of the world the model intends to describe, and not merely for internal database identifiers which are specific to a technical system, unless these latter also have a more general use outside the technical context. This property includes in particular identification by mathematical expressions such as coordinate systems used for the identification of instances of E53 Place. The property does not reveal anything about when, where and by whom this identifier was used. A more detailed representation can be made using the fully developed (i.e. indirect) path through E15 Identifier Assignment.

Examples:

- the capital of Italy (E53) *is identified by* "Rome" (E48)
- text 25014–32 (E33) *is identified by* "The Decline and Fall of the Roman Empire" (E35)

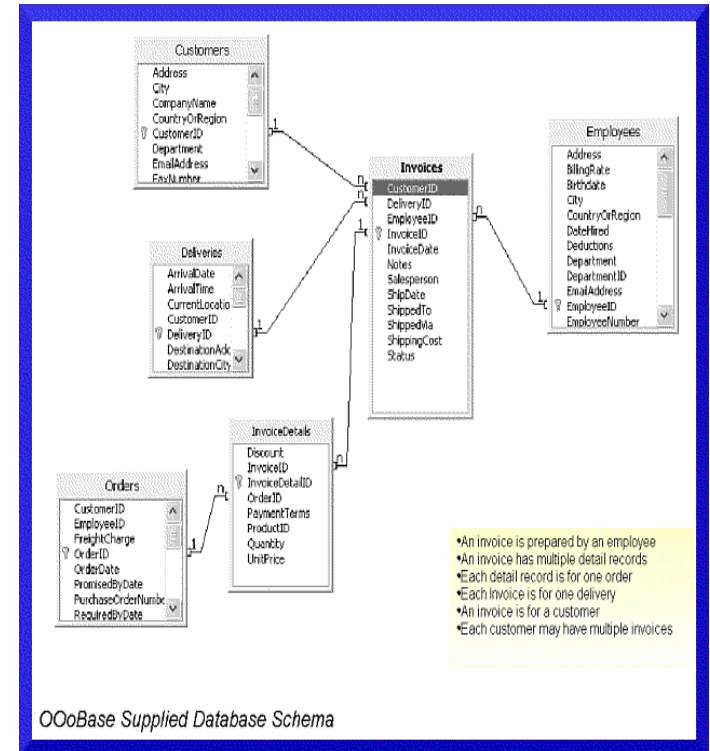
What kind of data does a formal ontology produce?

Triples (Subject - Verb - Object)



In a graph, supporting subsumption relation

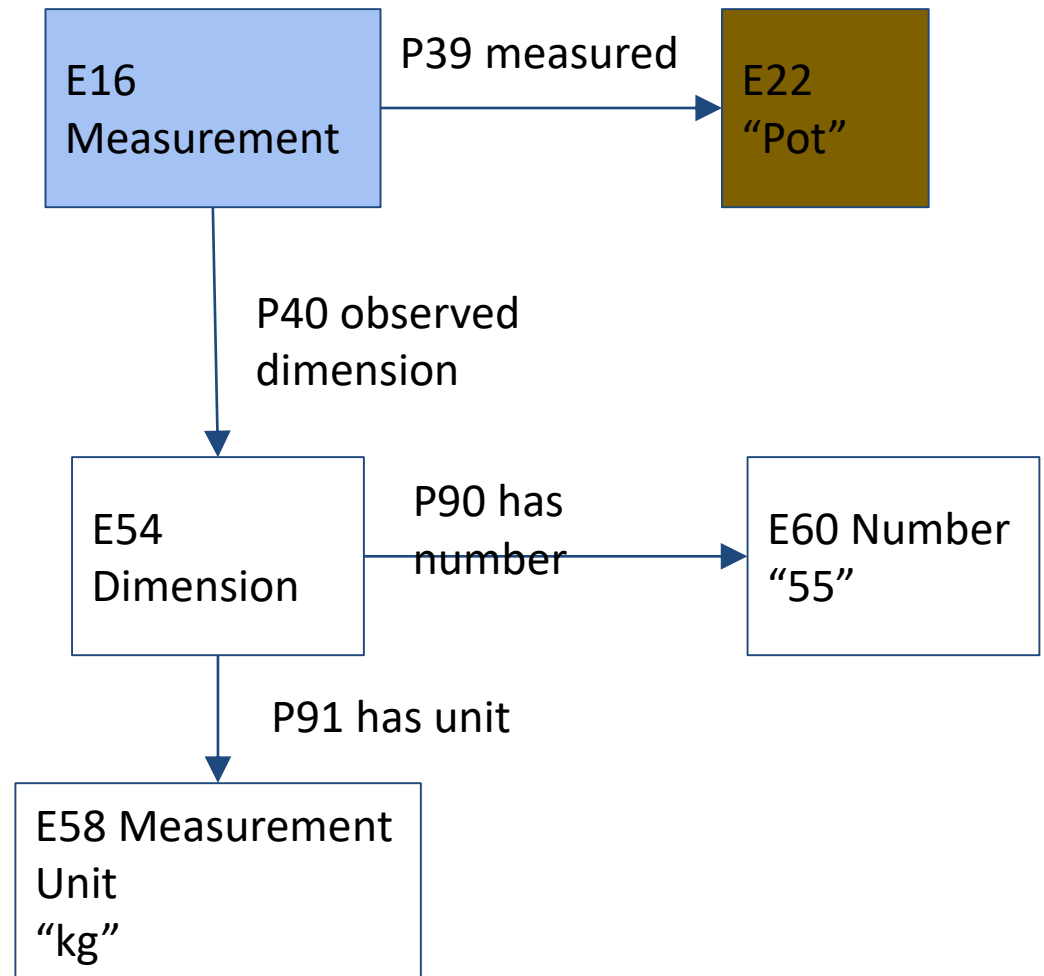
Traditional RDBMS



What kind of data does a formal ontology produce?

Object Table	
ID	101
Name	Pot
Weight (kg)	55

Rendering the implicit, explicit

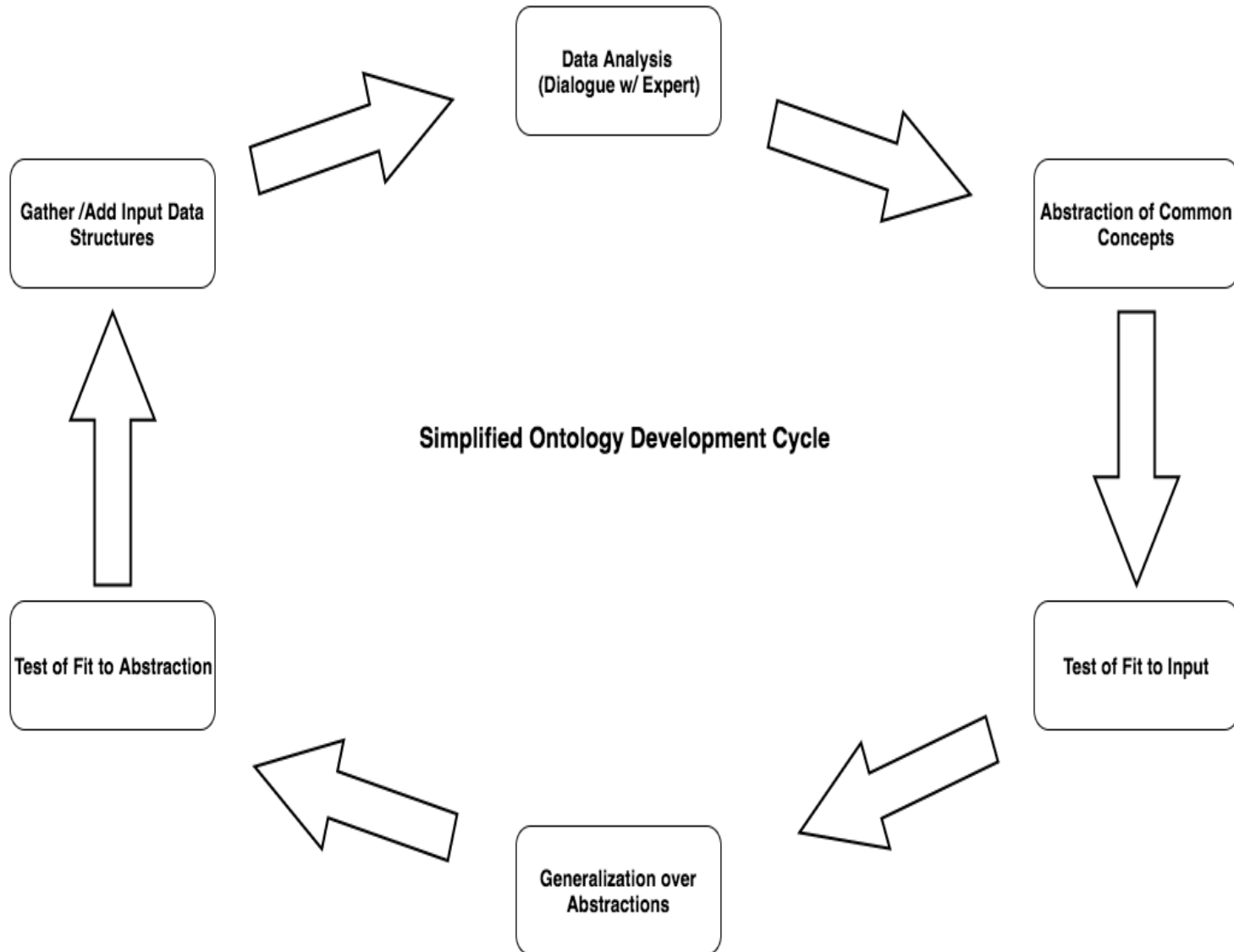


Formal Ontologies: How do they come about?

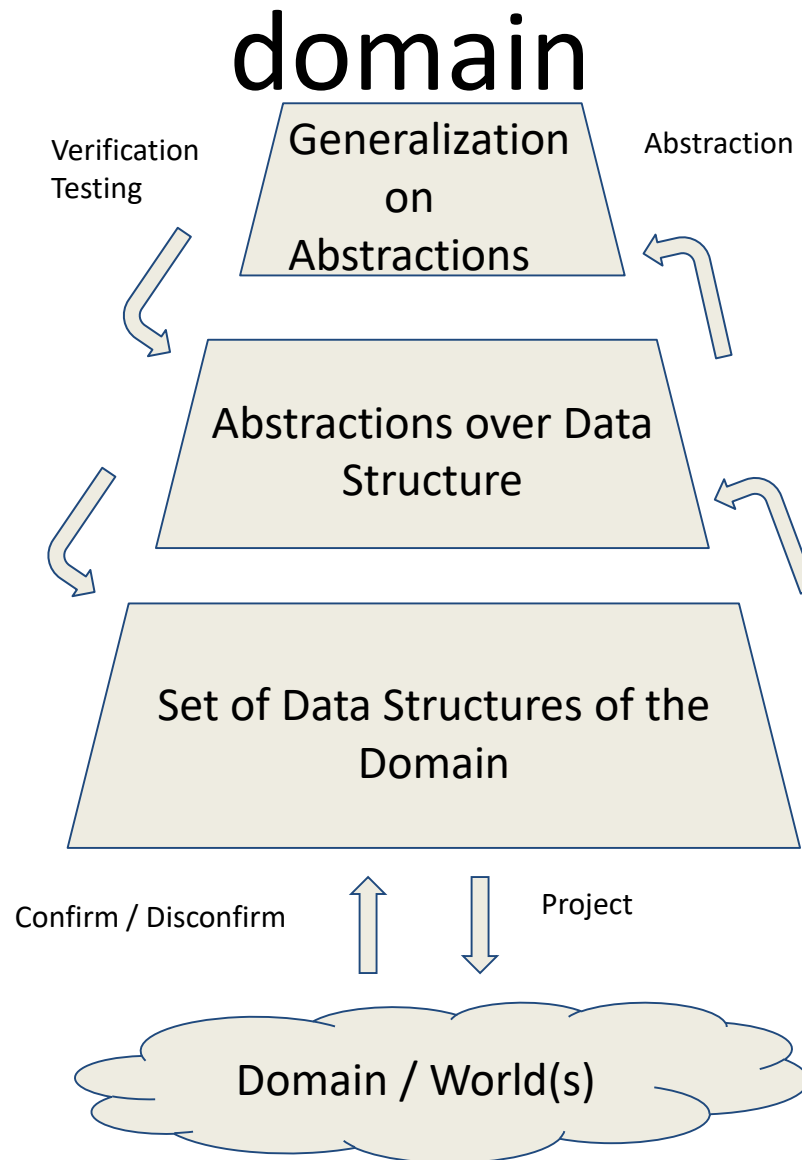
- Empirical study of data structures, to understand their semantic content
- Dialogue with domain specialists, to test conceptualizations, understand argumentation
- Elicitation of competence questions, to have a metric against which to measure the success of the effort



The process: iterative



The process: testing against objective



What, practically can be done with it?

Integration and Interoperability

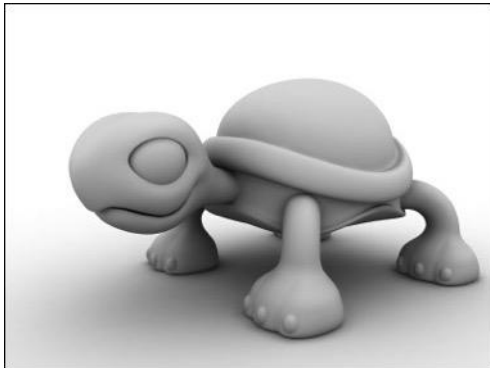
Modelling/Creating

1) Model from Scratch

No current ontology model exists, can start a modelling process for providing a lingua franca for your domain

2) Model an Extension

An ontology exists that is generically useful for your domain but cannot capture all relations to sufficient accuracy



Implementing/Using

1) Mapping Integration / Compatibility

An ontology exists, is adequate and you wish to map your existing data into it and take advantage of its capacities

2) Native Expression / Compatibility

An ontology exists, is adequate and you wish to express your data natively in that ontology and take advantage of its capacities



2. CIDOC CRM – HIGH LEVEL OVERVIEW

The CIDOC Conceptual Reference Model



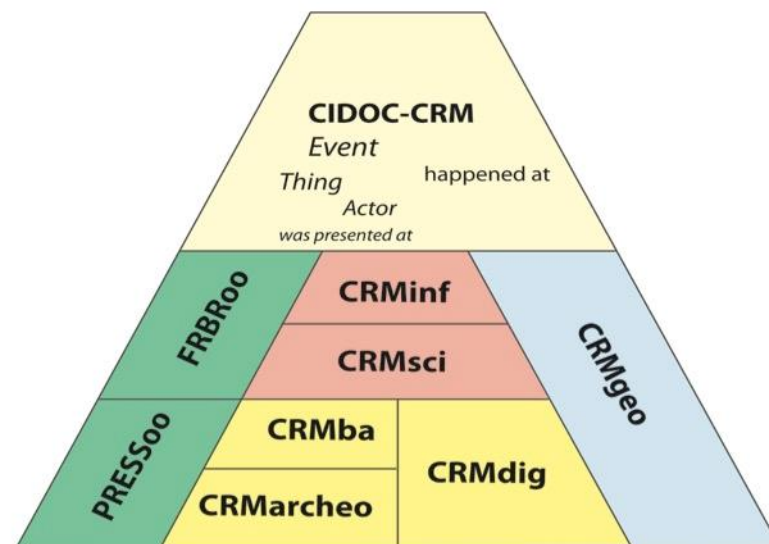
- *Developed by the **CRM Special Interest Group of the International Committee for Documentation** (CIDOC) of the International Council of Museums (ICOM), following an initiative of ICS-FORTH, Heraklion, Crete.*
- *a **core ontology** describing the underlying semantics of over a hundred database schemata and structures from all museum disciplines, archives and libraries.*
- *Recognized **ISO Standard** since 2006 (ISO21127:2006)*
- *the **result of 20 years** of interdisciplinary work and agreement*
- *a **generic model of recording of “what has happened”** in human scale*
- ***generates huge, meaningful networks of knowledge by a simple abstraction:** history as meetings of people, things and information.*

CIDOC CRM: Description

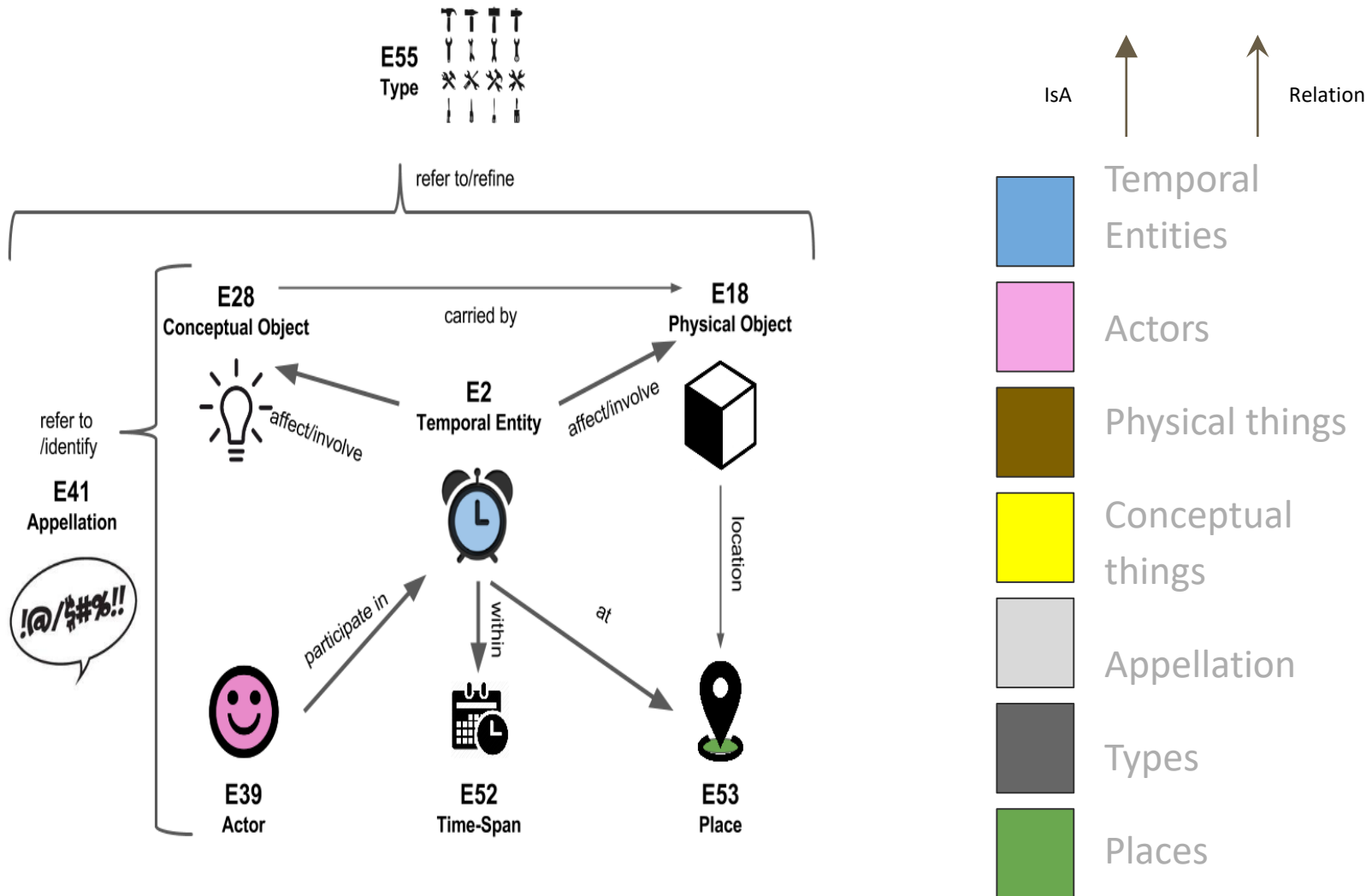
Type	Top Level Ontology
Scope	Cultural Heritage and E-Sciences
Classes	90+-
Relations	150+-
Version	6
Maintained by	CIDOC CRM SIG
Official Extensions	8
Access	http://www.cidoc-crm.org/



CIDOC-CRM family of Models

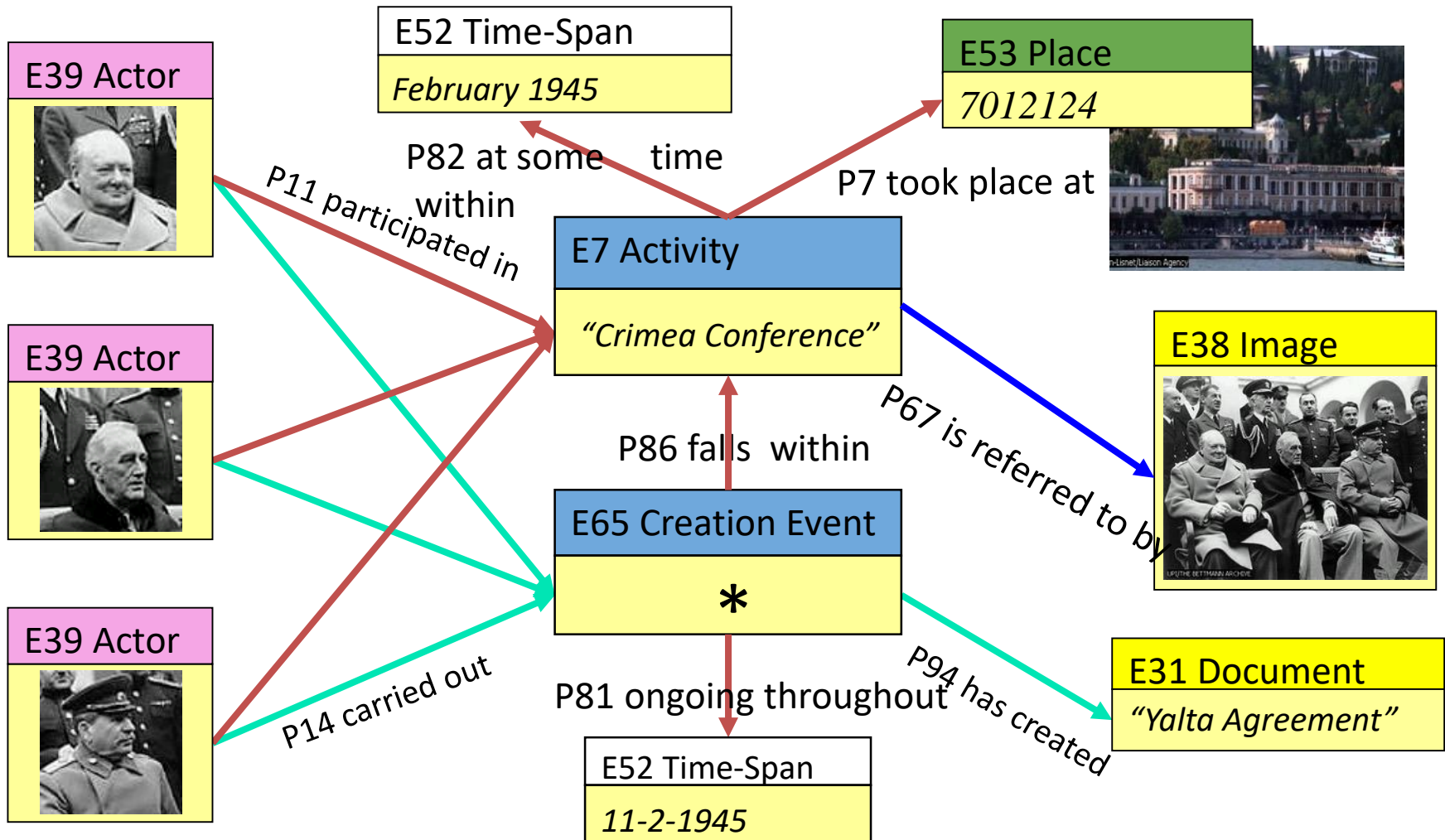


CIDOC CRM: General Modelling Pattern

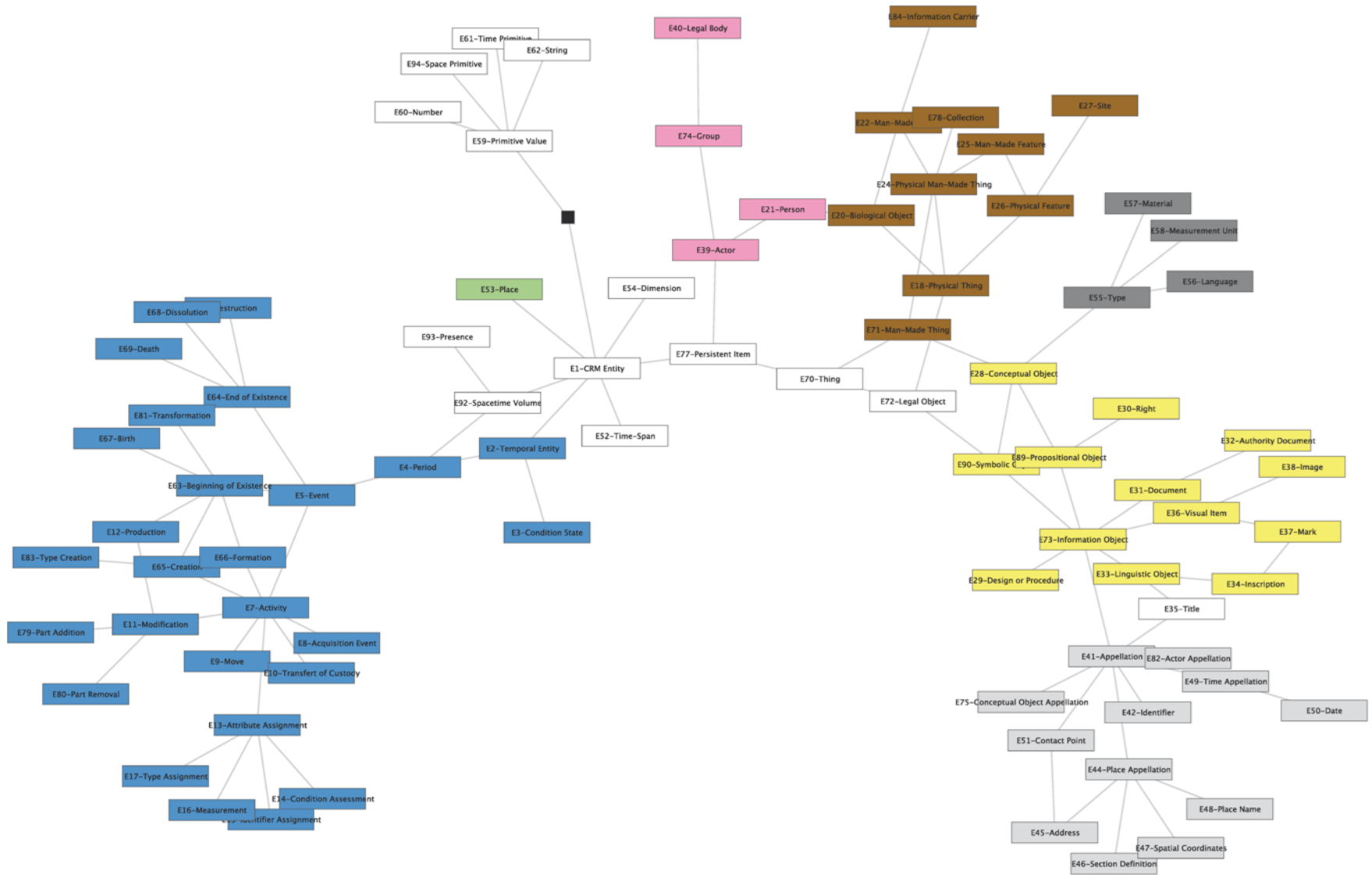


The Crimea Conference in CIDOC CRM

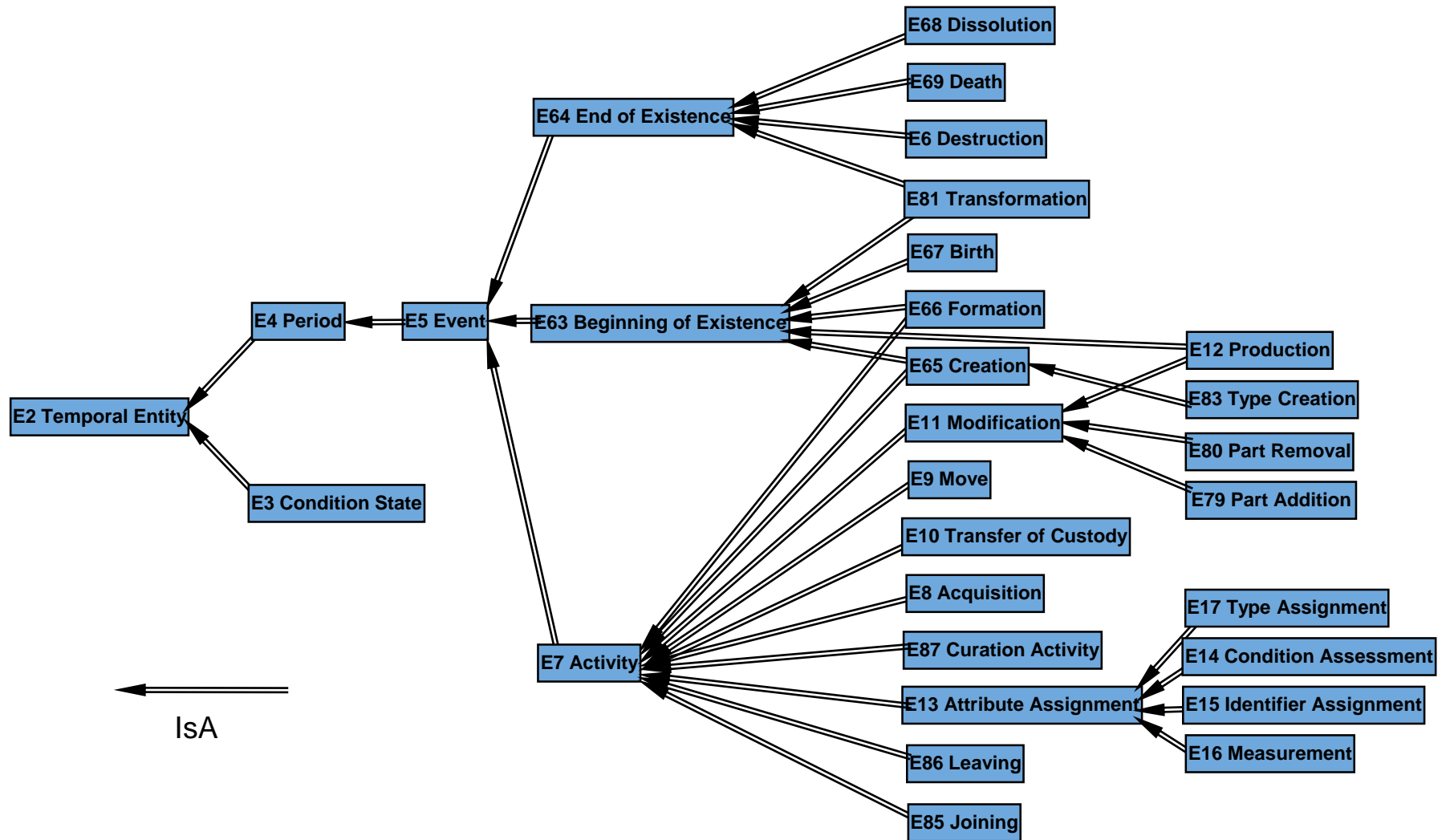
Explicit Events, Object Identity, Symmetry



CRM Overall Class Hierarchy



Temporal Classes: Reasoning over Time



Temporal Classes: Reasoning over Time

– E4 Period

- binds together related phenomena
- introduces inclusion topologies - parts etc.
- Is confined in space and time
- the **basic unit** for **temporal-spatial** reasoning

– E5 Event

- looks at the input and the **outcome**
- introduces **participation** of people and **presence** of things
- the basic unit for **weak causal** reasoning
- each event **is a** period if we study the details of the process

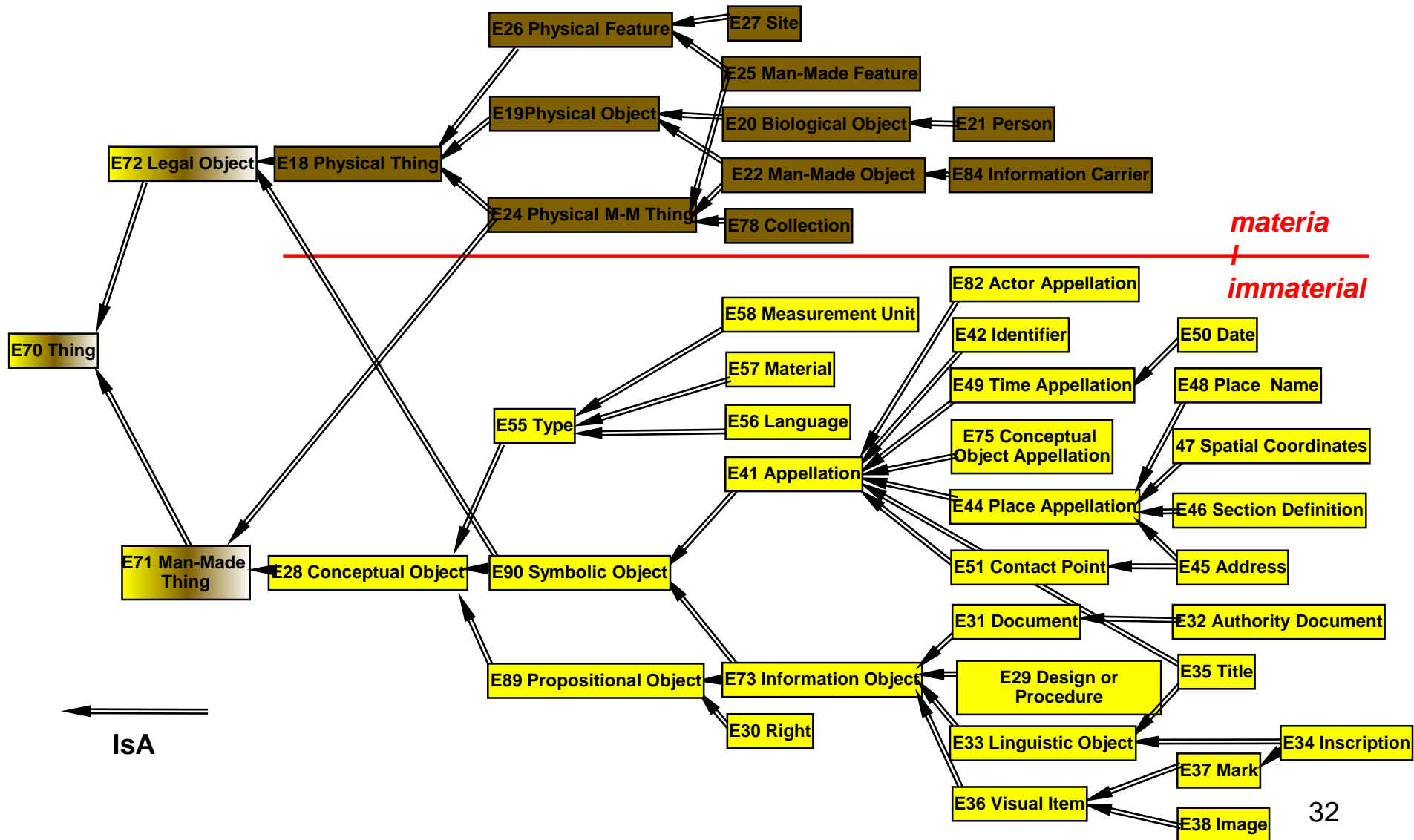
– E7 Activity

- adds **intention**, influence and purpose
- adds **tools**

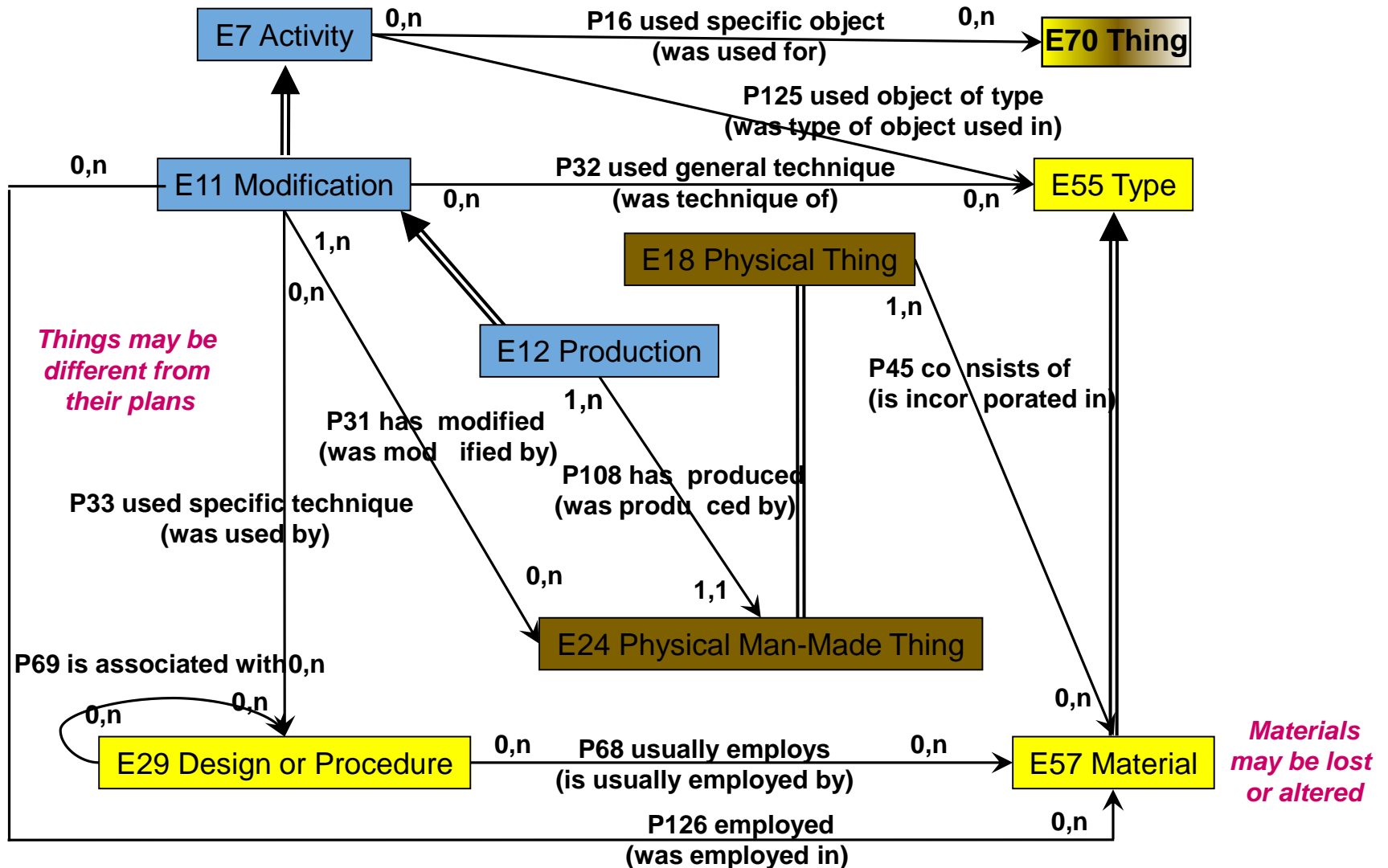
Temporal Classes: Reasoning over Time

Class	Property	Range Class
E2 Temporal Entity	P4 has time-span (is time-span of)	E52 Time-Span
E4 Period	P7 took place at (witnessed)	E53 Place
	P9 consists of (forms part of)	E4 Period
	P10 falls within (contains)	E4 Period
E5 Event	P12 occurred in the presence of (was present at)	E77 Persistent Item
	P11 had participant (participated in)	E39 Actor
	P14 carried out by (performed)	E39 Actor
	P20 had specific purpose (was purpose of)	E5 Event
	P21 had general purpose (was purpose of)	E55 Type
	P16 used specific object (was used for)	E70 Thing

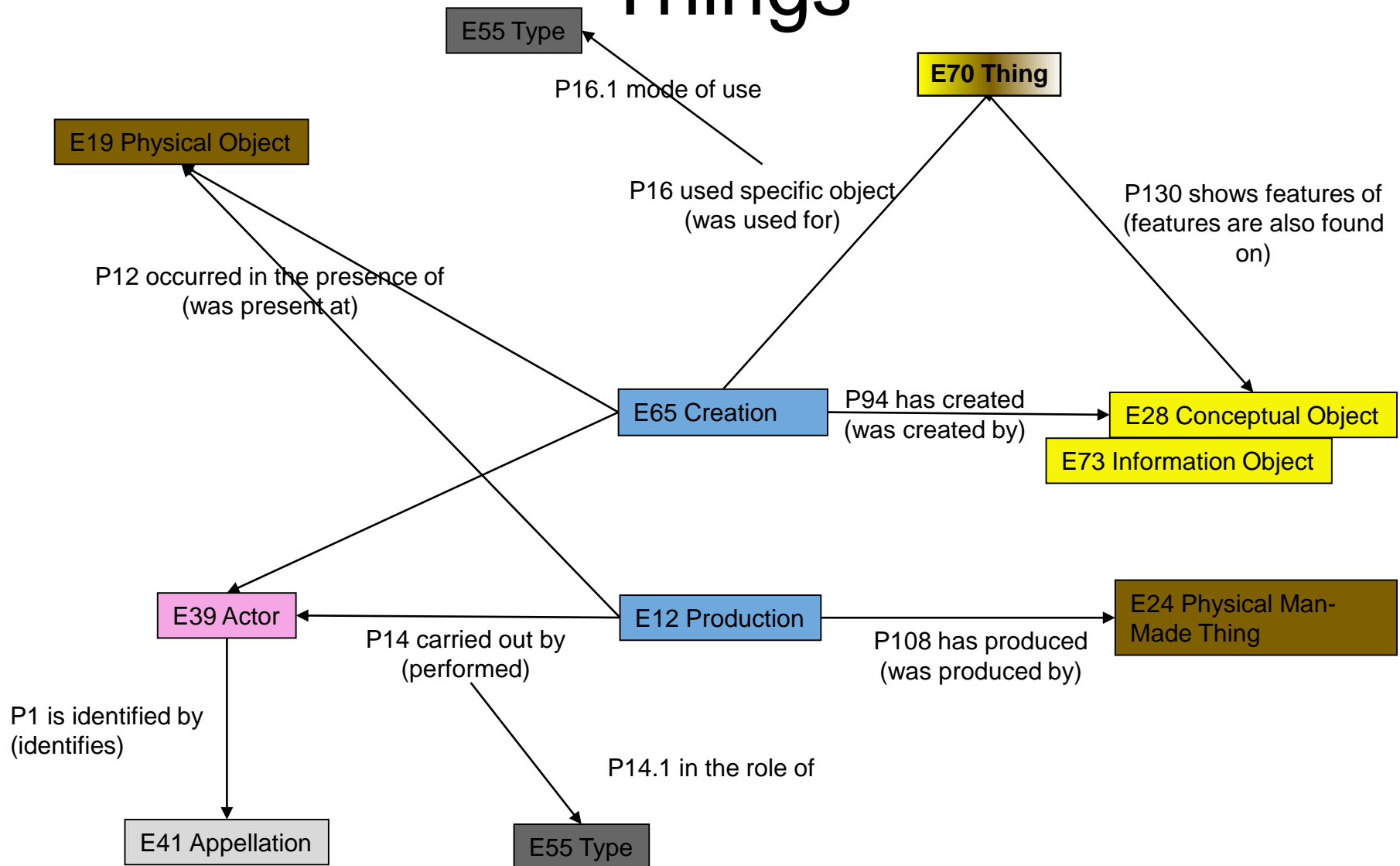
Endurant Classes: Reasoning over Things



Things Coming to be in Time



Genesis of Conceptual vs. Physical Things



High Level Distinctions/Connections in Conceptual Objects

E28 Conceptual Object

‘This class comprises non-material products of our minds and other human produced data that have become objects of a discourse about their identity, circumstances of creation or historical implication.’

E90 Symbolic Object

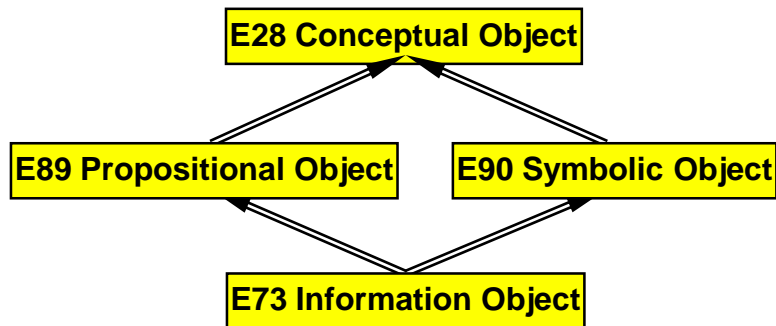
‘This class comprises identifiable symbols and any aggregation of symbols, such as characters, identifiers, traffic signs, emblems, texts, data sets, images, musical scores, multimedia objects, computer program code or mathematical formulae that have an objectively recognizable structure and that are documented as single units.

E89 Propositional Object

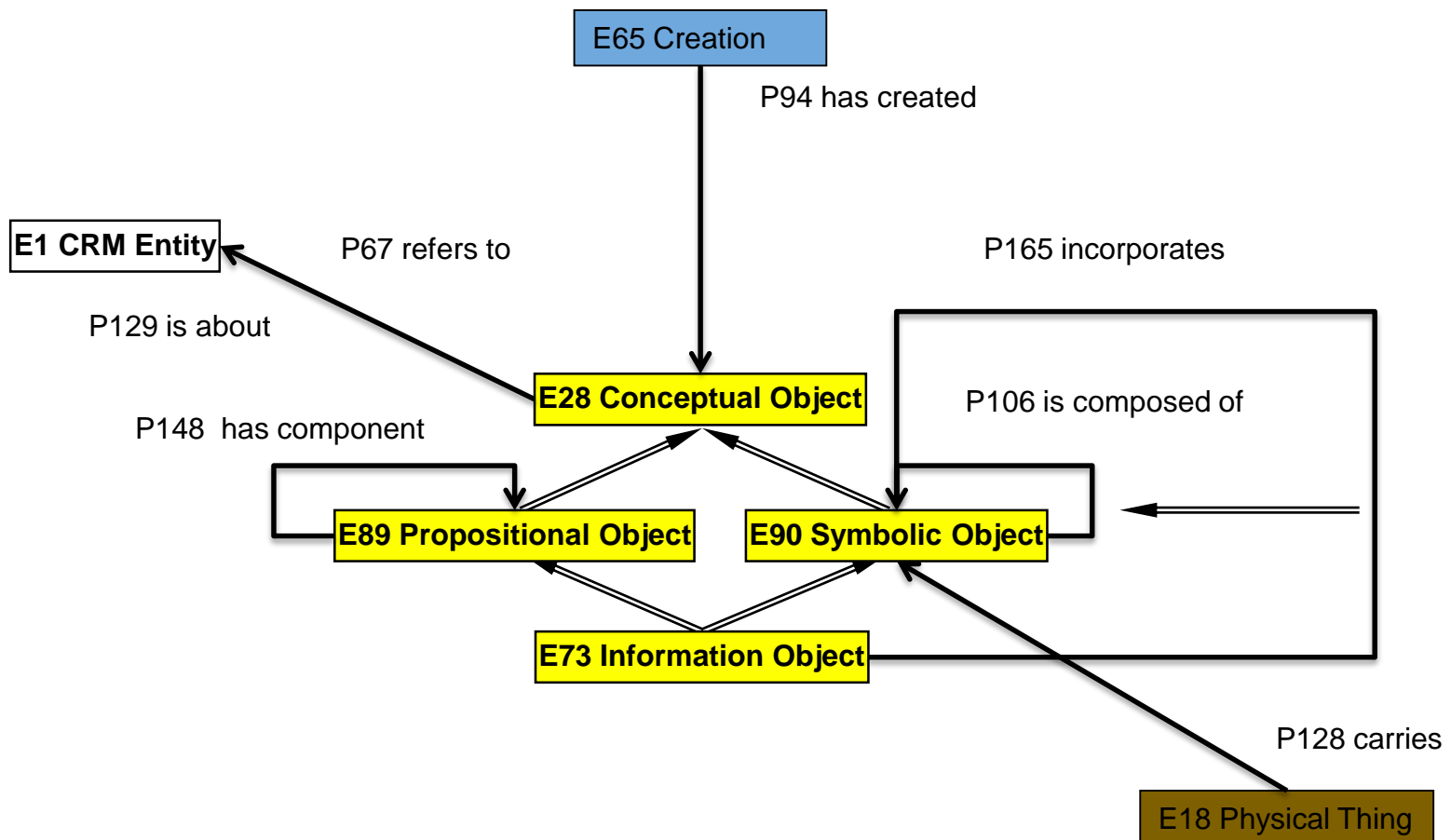
This class comprises immaterial items, including but not limited to stories, plots, procedural prescriptions, algorithms, laws of physics or images that are, or represent in some sense, sets of propositions about real or imaginary things and that are documented as single units or serve as topics of discourse.

E73 Information Object

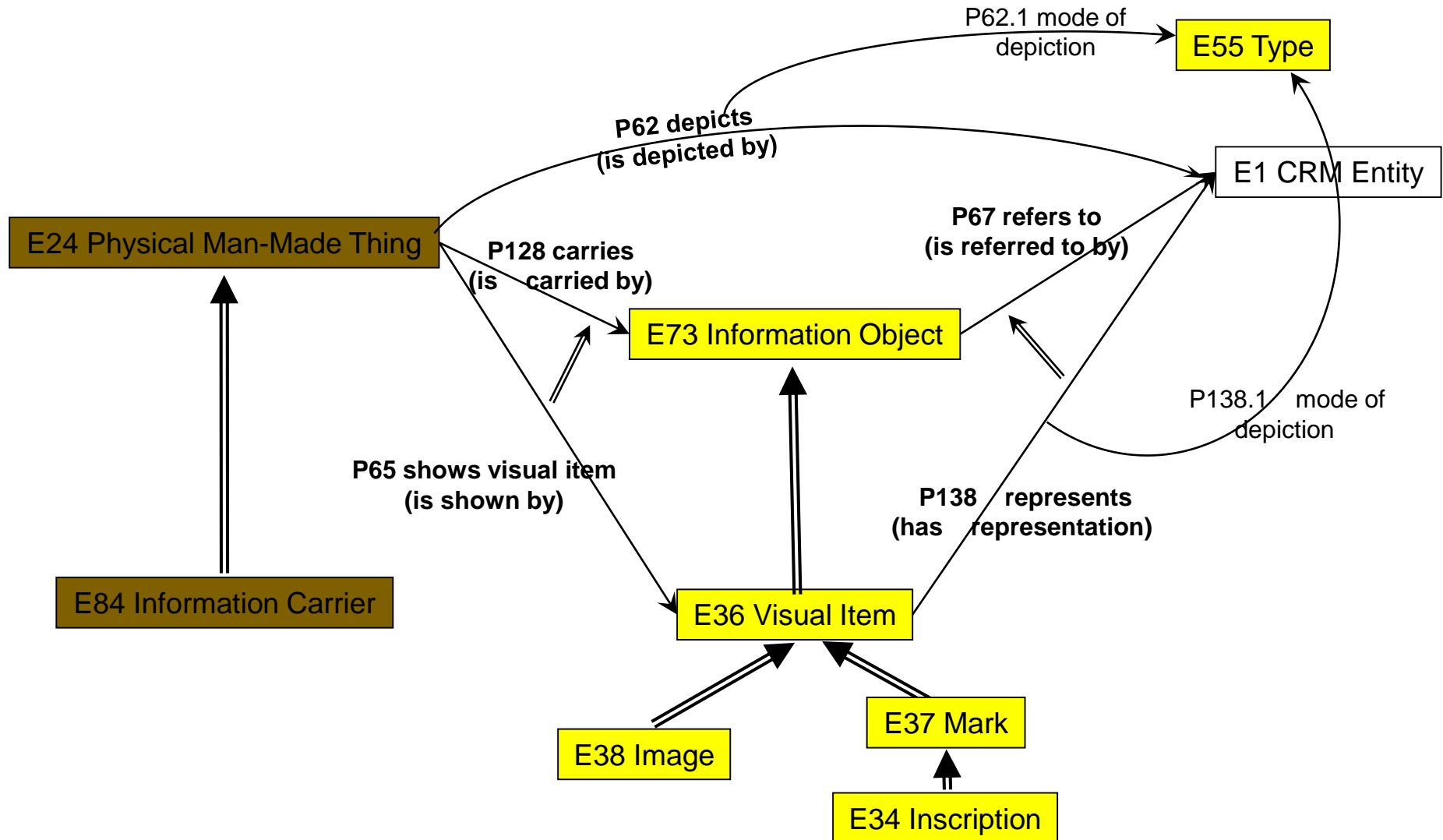
This class comprises identifiable immaterial items, such as a poems, jokes, data sets, images, texts, multimedia objects, procedural prescriptions, computer program code, algorithm or mathematical formulae, that have an objectively recognizable structure and are documented as single units.



High Level Relations between Conceptual Objects



Conceptual, Physical Relations and Reasoning



4. CIDOC CRM – HOW TO USE

Tools for Learning the CRM

Reference Materials

- CIDOC CRM Specification

http://www.cidoc-crm.org/releases_table

- Visual Charts

http://old.cidoc-crm.org/cidoc_graphical_representation_v_5_1/graphical_representation_5_0_1.html

Tutorials

- One video
- Many powerpoints

<http://www.cidoc-crm.org/tutorialPage>

- Mailing list

The screenshot displays the CIDOC CRM website. At the top, there is a header with the ICOM logo (International Council of Museums) and the CIDOC logo (International Committee for Documentation). Below this, the main title 'CIDOC CRM' is prominently displayed, followed by 'CONCEPTUAL REFERENCE MODEL' and 'TRIAL VERSION'. A navigation bar includes links for 'Home', 'The Model', 'Activities', 'Resources', 'People', and 'News'. A search bar is located on the right side of the navigation bar. The main content area is divided into two columns. The left column, titled 'What's New?', lists recent updates: 'New current version of the CIDOC CRM, version 6.2.2, is available...', 'draft version of minutes of 37th CIDOC CRM-30th FRBR- CIDOC...', and 'new updated agenda for Berlin meeting'. Below this is a section titled 'Choose a shortcut' with links for 'Compatible models & Collaborations', 'Link to old CIDOC CRM website', 'Last official release', 'Next meeting', 'Current version', 'Use cases', 'CIDOC CRM Tutorial', 'CIDOC CRM Website designs', 'CRM SIG archive', and 'FAQ'. The right column, titled 'Home', contains two main sections: 'What is the CIDOC CRM?' and 'Who we are'. The 'What is the CIDOC CRM?' section explains the purpose of the CRM and its history, mentioning the CIDOC Documentation Standards Working Group (DSWG) and the ISO 21127:2006 standard. The 'Who we are' section describes the DSWG's role and its commitment to the CRM. At the bottom of the right column, a 'Text status: To be reviewed' message is visible.

<http://www.cidoc-crm.org/>

Tools for Using the CRM

Mapping Tools

- 3M
(<http://139.91.183.3/3M/>)

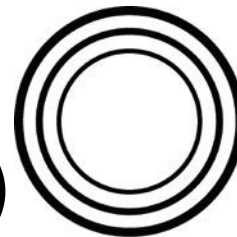


Data Entry / Navigation Tools

- Wiss-ki Project
(<http://wiss-ki.eu/>)
- Research Space Project
(<http://www.researchspace.org/>)



WissKI



**RESEARCH
SPACE**

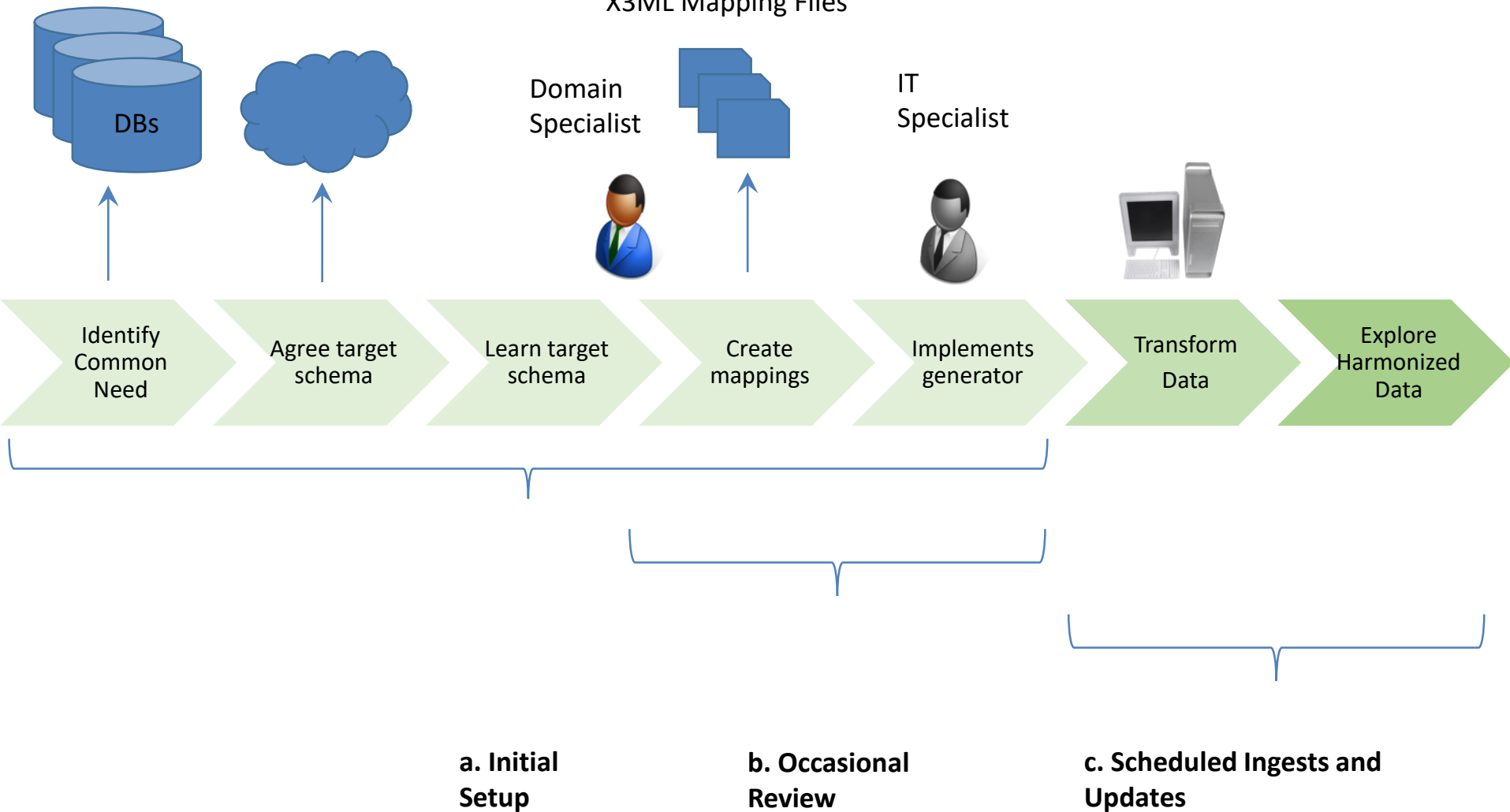
N.B.: CIDOC CRM is neutral with respect to software. The above represent projects that actively deploy technologies to run CIDOC CRM and thus have an experience base.

Heterogeneous,
Related
Datasets

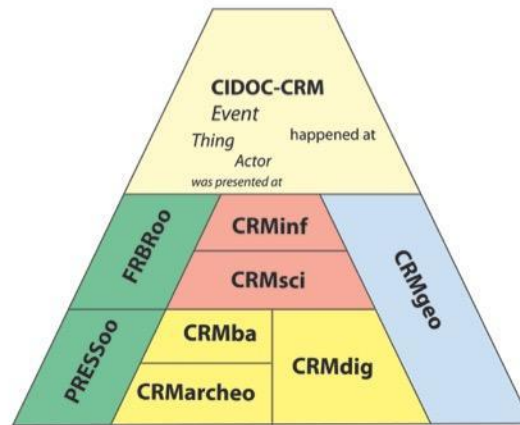
Standard,
Ontology

Workflow

X3ML Mapping Files



Ontology



Mapping
Path

Encoding

KIF, RDFS, OWL

Source Data



Mapping /
Transformation
Tool



map

transform

query

Triple Store / Graph DB



metaphacts



What do I need to a mapping?

The Tools

- Planning
 - Pen and Paper
 - Time
 - My Schema / Examples
 - Ontology Schema / Examples
- Executing
 - A Mapping software
 - Time
 - 3M @
<http://139.91.183.3/3M/Login>





Main Menu

Mappings

Help

Quick Start Guide
Manual

+ eye icon More ▾

Search

Mappings

Showing: All

Filter Table

Showing 10 entries

Title	Source Schema	Target Schema	General Description	Creator	Card Status	Id	
LIDO to CIDOC (version 2.0)	LIDO	CIDOC-CRM	The mapping was implemented within the ATHENA project (www.athenaeurope.org). The ATHENA project is bringing together re...	admin	Unpublished	Mapping/1	🔒
Mapping of iDAIfield_Ausgrabung to CIDOC-CRM		CIDOC-CRM crmarchaeo crmsci	Mapping of the excavation table of DAI's field research infrastructure iDAI.field.	math	Unpublished	Mapping/103	🔒
A mapping of LIDO V1.0 to CIDOC 5.0.4		CIDOC-CRM	Descriptive Metadata Only	lida	Unpublished	Mapping/106	🔒
Thunau		CIDOC-CRM		anja	Unpublished	Mapping/11	🔒
YCBA LIDO v.2 to CRM		CIDOC-CRM	This is for our YCBA's version 2 of LIDO that includes provenance (blurb/dsisplay label only), exhibition history, biblio...	edgartdata	Unpublished	Mapping/110	🔒 📄
Training1		CIDOC-CRM		smengler	Unpublished	Mapping/116	🔒
OpenDig	OpenDig	CIDOC-CRM CRMarchaeo	OpenDig Archaeological Recording Application	mlvincent	Unpublished	Mapping/119	🔒
DC to CIDOC-CRM	Dublin Core	CIDOC-CRM CRMroles	Mapping of Dublin Core to CIDOC-CRM	math	Unpublished	Mapping/12	🔒
Test Bruseker Instance		CIDOC-CRM		bruseker	Unpublished	Mapping/121	🔒

Mapping Interface



Mapping : ITN_Workshop

Info

Matching Table

Generators

Analysis

Transformation

Configuration

About

Click on a row to edit the matching table

	SOURCE ⇄	TARGET ⇄	IF RULE ⇄	COMMENT ⇄
D	<input type="checkbox"/> ../row	<input type="checkbox"/> E22_Man-Made_Object		
P	↓ ../Title	↓ P1_is_identified_by		
R	<input type="checkbox"/> ../Title	<input type="checkbox"/> E35_Title		
P	↓ ArtistName	↓ P108i_was_produced_by E12_Production ↓ P14_carried_out_by		
R	<input type="checkbox"/> ArtistName	<input type="checkbox"/> E39_Actor		
P	↓ Creation_place	↓ P108i_was_produced_by E12_Production ↓ P7_took_place_at		
R	<input type="checkbox"/> Creation_place	<input type="checkbox"/> E53_Place		

View mode

Collapse
Expand All

Top

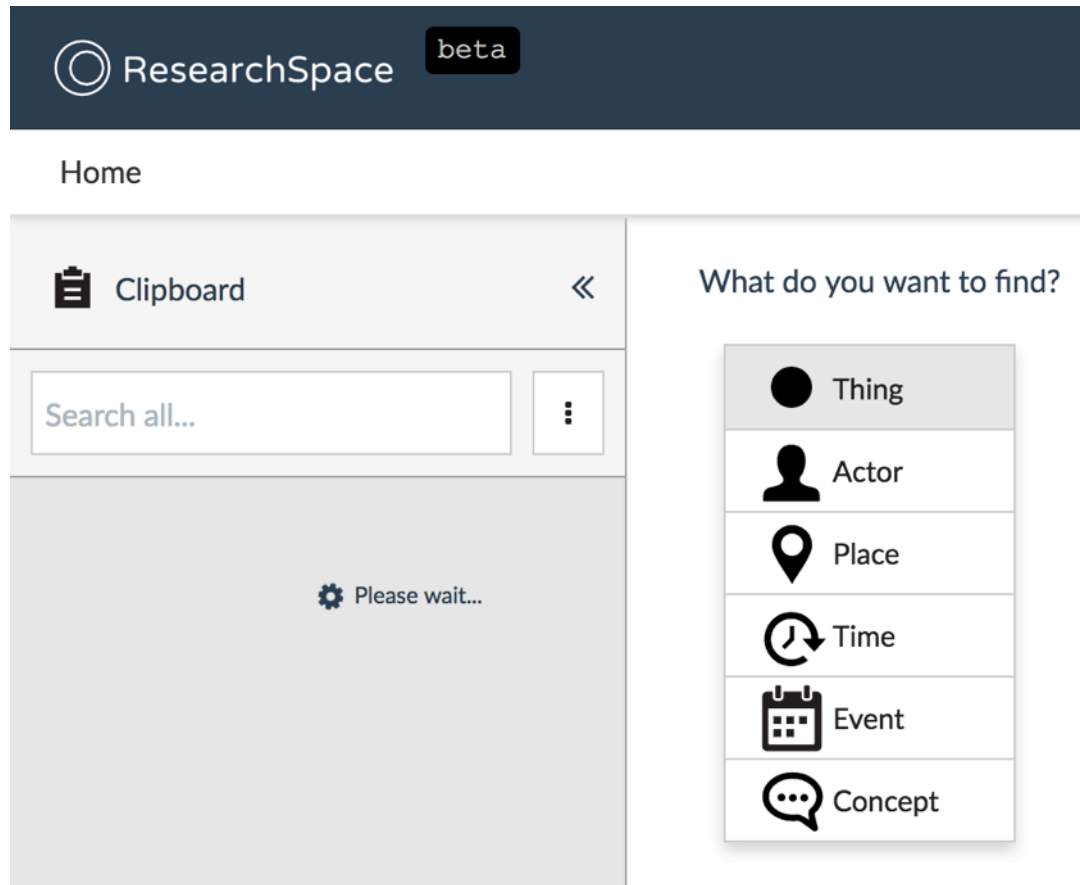
Bottom

XML

+ Link

+ Map

Metaphacts: Query Tool



Metaphacts: Complex Query

ResearchSpace beta

Example Records ▾ Sparql Account ▾ ⚙

Home

Clipboard <<

Search all...

Please wait...

Show Filter

Find: Things FROM Greece and CREATED BY The Painter of Athens 17278

● Thing

from

📍 Place

Greece

remove

AND

● Thing

created by

👤 Actor


The Painter of Athens 17278

remove

Found 1 matches

Chart Table Grid

⚠ Only entities with image representation are shown in the Grid!



Pottery, pottery, Attic (197...

Download CSV Download JSON Use in Search Save As Set


Metaphacts: Item Level View

ResearchSpace beta

Example Records ▾ Sparql Account ▾ ⚙

Home / Pottery, pottery, Attic (1978,0117.5)


Clipboard <<
Search all...
⚙ Please wait...



Pottery, pottery, Attic (1978,0117.5)

● Object (Man-Made Object) record, British Museum

Summary Annotations 0 Explore Related



Field	Value	Annotations	Assertions
Title	Pottery, pottery, Attic (1978,0117.5)	0	0
Description	Pottery: red-figured skyphos: youth and pillar.	0	0
Object Type	skyphos	0	0
Asset ID	GAA7154	0	0
Material	pottery (en)	0	0
Dimensions	Diameter: 16.7 Centimeter Height: 12.4 Centimeter	0	0
Place of Production	Attica Greece	0	0
Date of Production	420BC :: circa	0	0
Production Period	Attic	0	0
Production Technique	painted	0	0
Production School	The Painter of Athens 17278	0	0
Current Owner	The British Museum	0	0


Object summary

All properties



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Form based data acquisition

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Objekt

▼ Objekt

Inventarnummer (GNM):

ZR-Nummer:


Titel:


Urspr. Aufhängungsort:

Schild von:

▼ Herstellung

Hersteller (Freitext):

Hersteller: + 

Auftraggeber: + 

▼ Herstellungsdatum

Datierung:


Jahr Start:

Jahr Ende:

Entstehungsort:

Kommentar:

▼ Inschrift

Position: + 

▼ Beschreibung der Inschrift

Typ:

Inhalt:

Übersetzung:

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Text based data acquisition



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Enter text:

B I U ABC [List Icons] Send

Beschreibung des Objekts

Fünf senkrechte Fichtenbretter und zwei Einschubleisten, rückwärtiger Eisenring. Profilstab gefasstes Strickband. Teilweise Leinwand, Kreidegrund, Tempera. Den runden Schild umzieht, gerahmt von goldener Profileiste, ein Inschriftband mit goldener Fraktur auf schwarzem Grund: Anno . domini . M^o . CCCC^o . vnd . in dem XLVIII . iar . am . pfinstag . vor santt . veits . tag starb . der . edel . fest ritte . her . wilhalm . vom . wolfstain . dem got genedig . sey (KP, 5.6.14) Auf dem schwarzen Grund des Mittelfeldes aufgelegter gewölbter Wappenschild der Familie Wolfstein, auf goldenem Grund zwei rote, pfehlweise übereinanderschreitende Löwen. Rechts auf das Mittelfeld gemalt unbekanntes Familienwappen: Schwarz-gold quergeteilt. Wilhelm I. von Wolffstein (1412-1415 - Juni 1448); ? Katharina, dritter Sohn des Stephanus von Wolffstein (1380-1402), war 1417 Landrichter zu Sulzbach, 1430 Landrichter in der Gegend von Hirsberg (Oberpfalz). Der Schild stammt aus der Klosterkirche zu Seligenporten (Oberpfalz), deren Rechtshoheit 1414 Wilhelm I. von Wolffstein erhalten hatte. Runder Totenschild des Hans von Wolffstein (gest. 1420) im Bode-Museum (AE 260) und des Wilhelm von Wolffstein (gest. 1444) ebenda (AE 625). Zu weiteren Totenschilden der Wolfsteiner in der Kirche in Seligenporten vgl. Ausstellungskatalog Bayern und Wittelsbach - Die Zeit der frühen Herzöge. Danach sieben Schilde erhalten.

Inschrift

Anno . dmimi . M^o . CCCC^o . vnd . in . dem . XIVIII . iar . am . pfinstag . vor . santt . veits . tag . starb . der . edle . fest . ritte . her . wilhalm . vom . wolfstein . dem . gott . genedig . sey
Position: den Schild umrandend

Provenienz

1935 erworben aus der Zisterzienserinnen-Klosterkirche Seligenporten (Oberpfalz).

Disable rich-text

► Input format

Save

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Data presentation



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KG1046

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Inschrift

Anno . dmimi . M^o . CCCC^o . vnd . in . dem . XVIII . iar . am . pfinstag . vor . santt . veits . tag . starb . der . edle . fest . ritter . her . wilhalm . vom . wolfstain . dem . gott . genedig . sey
Position: den Schild umrandend

Provenienz

1935 erworben aus der Zisterzienserinnen-Klosterkirche Seligenporten (Oberpfalz).

Anmerkungen

Attachment Size
[import_totenschilde.xml](#) 1.41 KB

Last updated on Mon, 06/30/2014 - 15:21.
 Originally submitted by Anonymous on 06/10/2014 - 14:10.

▼ Objekt

Inventarnummer (GNM)

KG1046

ZR-Nummer

ZR 1935/16

Titel

Totenschild des Wilhelm I. von Wolfstein (gest. 1448)

Urspr. Aufhängungsart

Klosterkirche Seligenporten/Opf

Schild von

von Wolffstein, Wilhelm

▼ Herstellung

▼ Herstellungsdatum

Datierung

Mitte 15. Jahrhundert

Standort

Lapidarium

Proviso

GNM, erw. 1935 (gem. mit KG1047)

Images



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OWL/XML in the triplestore



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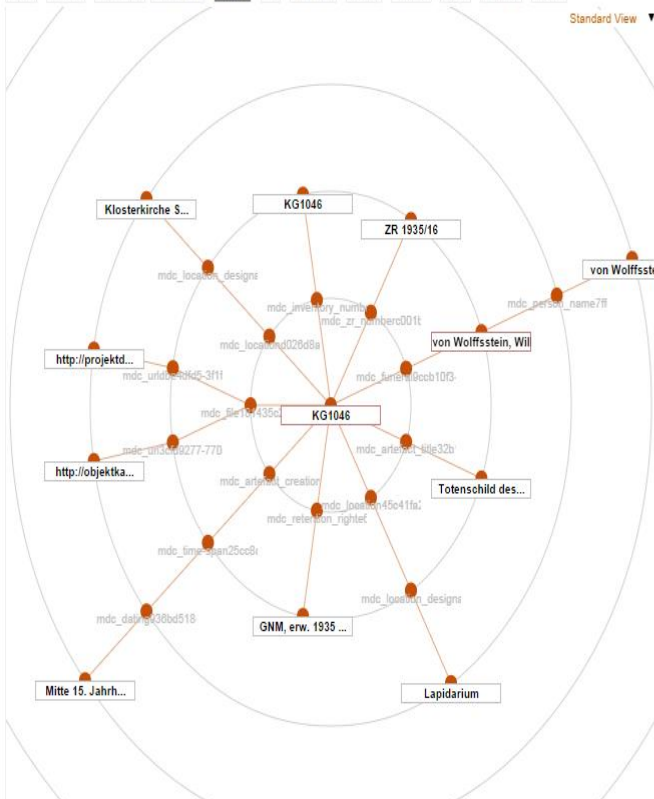
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KG1046

View Delete Edit Text Edit Form **Graph** Lip Network Paths Triples XML Outline Devel



Connections (KG1046)

- ecrm:P102_has_title »
mdc_artefact_title32b167bf-287b-d644-9629-2e11a31f84dd
- ecrm:P55_has_current_location »
mdc_location45c41fa2-2d72-2804-a86d-7923f535dbf4
- ecrm:P104_is_subject_to »
mdc_retention_righte6578c34-c742-4ee4-b563-1f123f92c34d
- ecrm:P108i_was_produced_by »
mdc_artefact_creation3a2d84a-356e-d6f4-bb36-375569550481
- mdc:is_visual_source_of »
mdc_file181435c2-dc30-8514-8b9b-5a6889454f90
- ecrm:P53_has_former_or_current_location » mdc_location026d8a0-f128-71d4-b660-69194c8571fe
- ecrm:P48_has_preferred_identifier »
mdc_inventory_number0914b163-41ee-abd4-a447-412b62010d03
- ecrm:P1_is_identified_by »
mdc_zr_numberc001bc21-2354-9884-b7f4-2477aaae037
- ecrm:P19i_was_made_for »
mdc_funeral9ccb10f3-498a-55b4-8ce8-d40705987711

Images



Linked WissKI-Individuals

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- KG1046

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Jahresausstellung 2015

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Drachenleuchter, 1522




Ebstorfer Weltkarte
[Faksimile], um 1300




Engelsturz, 1562




Engelsturz, [1854]



Engelsturz, um 1751



Engelsturz, 1685-1686



Erstürmung der
Minneburg durch Wilde
Leute, um 1420


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Full-text search and detailed search

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	Objekt (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Inventarnummer (GNM) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	ZR-Nummer ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Titel ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Urspr. Aufhängungsort ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Schild von ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Herstellung (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Inscription (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Hauptwappen (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Beiwappen (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Orden/Auszeichnungen (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Standort ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Verwalter ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Proviso ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Vergleichsobjekt ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match
OR ▼	Bearbeitung (all entries) ▼		<input type="checkbox"/> not empty	<input type="checkbox"/> exact match

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