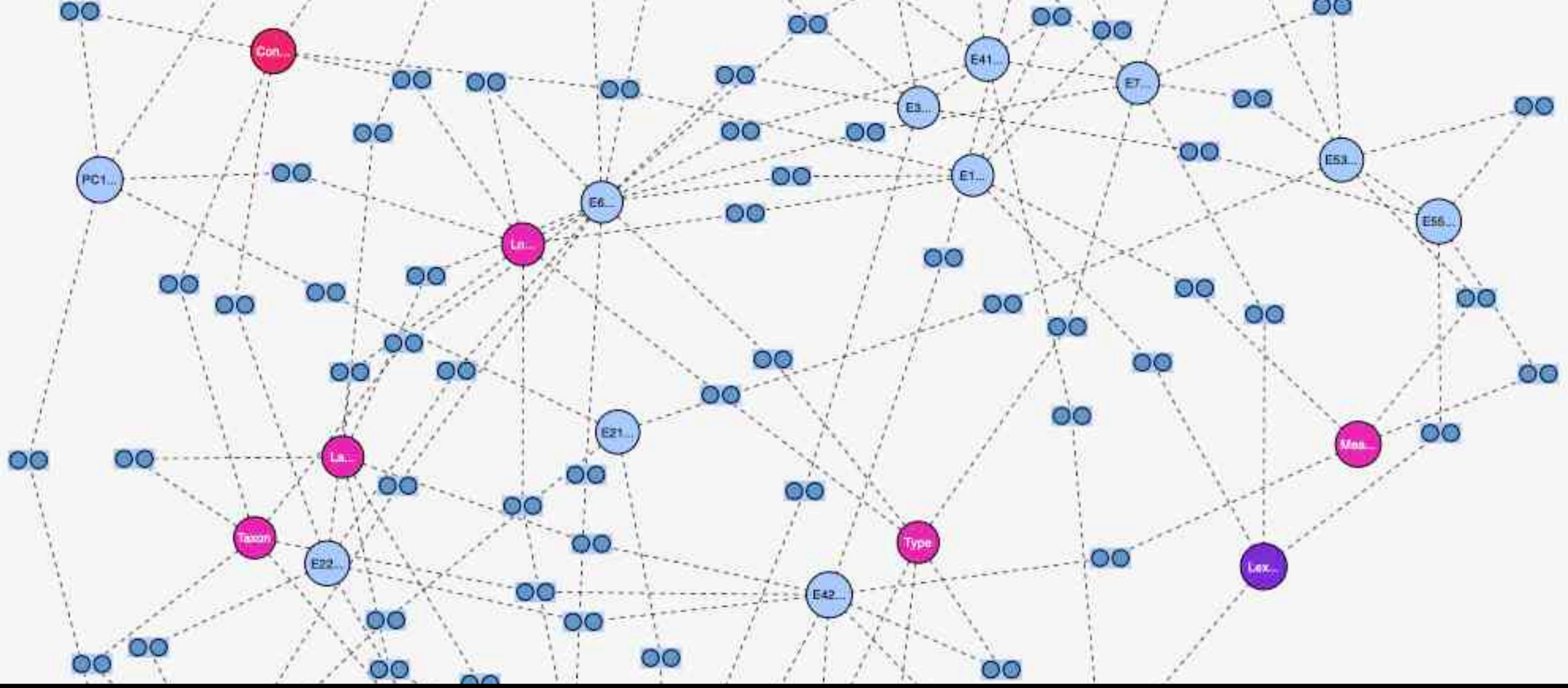


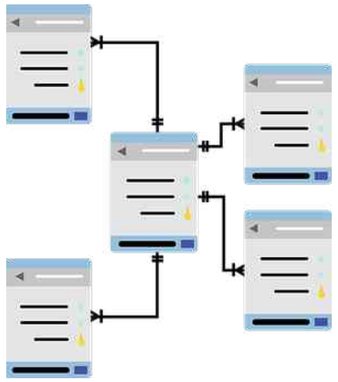
Swiss Art Research Infrastructure

development and semantics

Swiss
Art
Research
Infrastructure

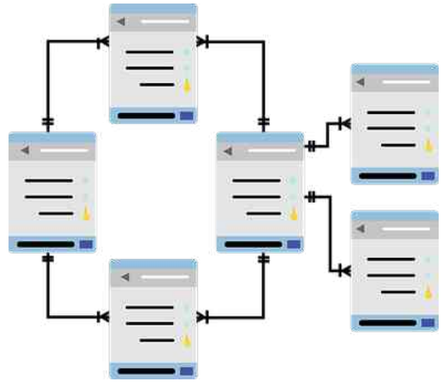
University of Zurich[UZH]

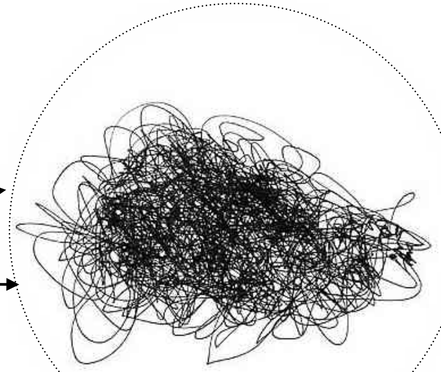
ETH zürich

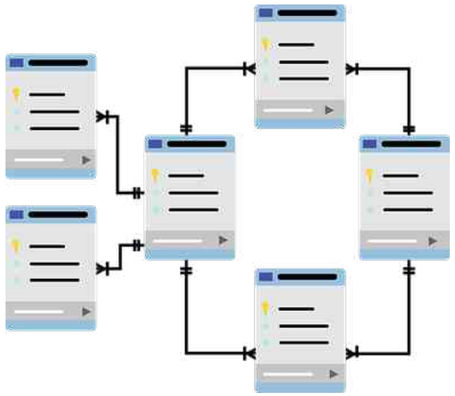


- Creator
- Date
- Type of Object

- Physical Object
- Digital Object
- Rights

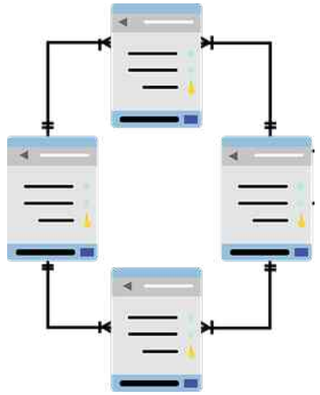


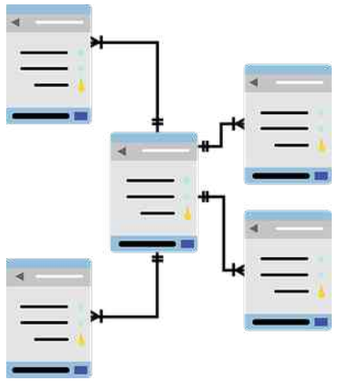




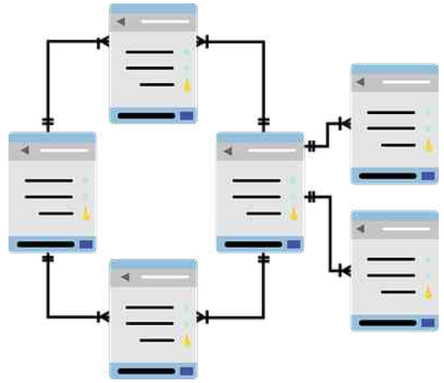
- Author
- Date
- Type

- Symbols
- Author
- Digital Objects



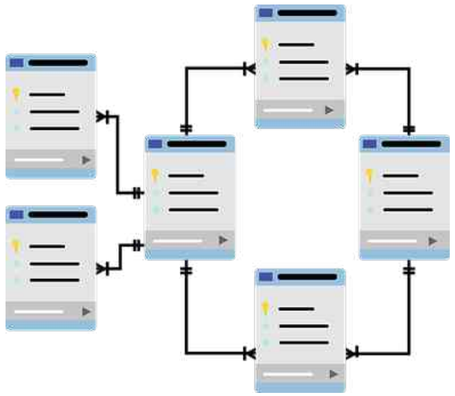


- Creator
- Date
- Type of Object

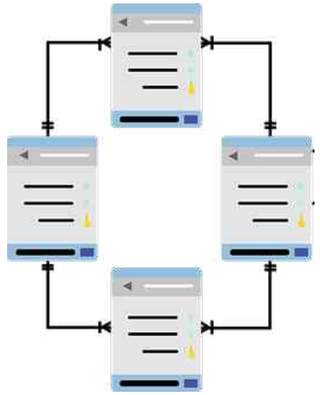


- Physical Object
- Digital Object
- Rights

CIDOC CRM | CONCEPTUAL REFERENCE MODEL

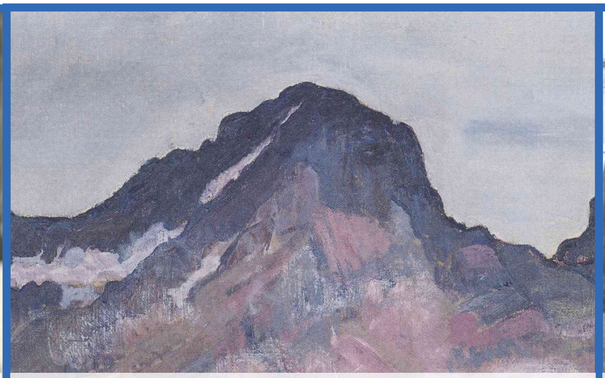


- Author
- Date
- Type



- Symbols
- Author
- Digital Objects

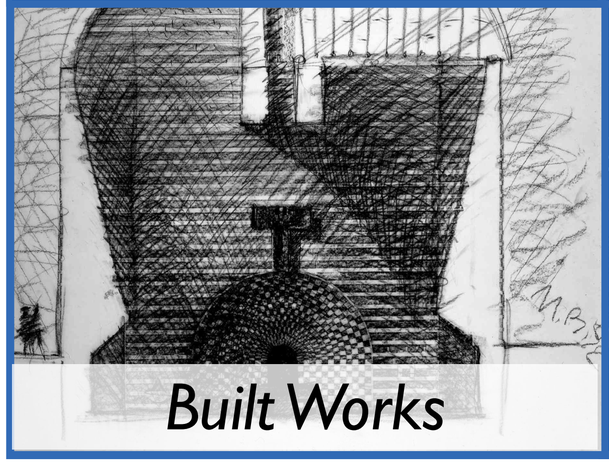
Persons



Artworks

Group

Digital Objects



Built Works

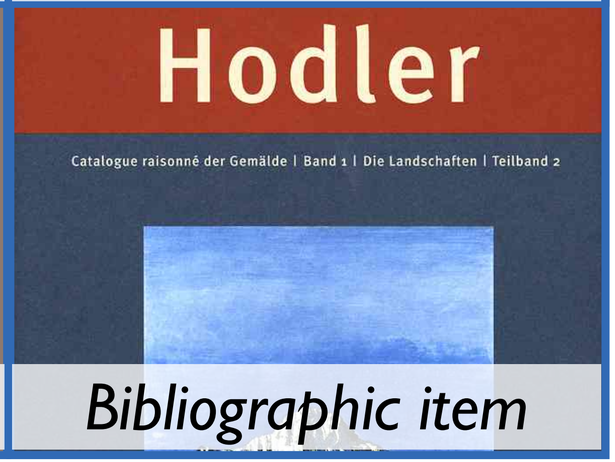
Places

HODLER

PARALLELISM

14.09.2018 – 13.01.2019

Events



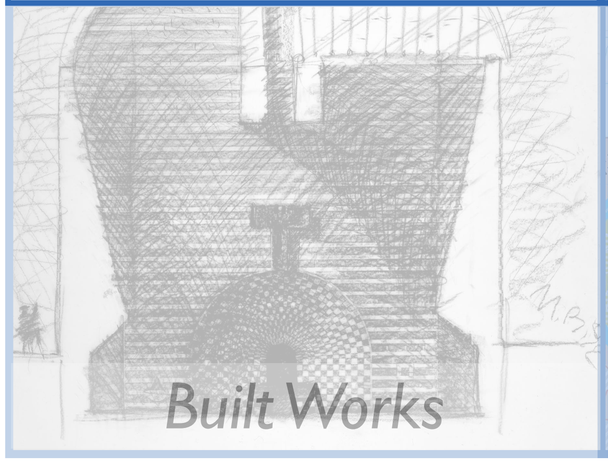
Bibliographic item

Persons

Artworks

Group

Digital Objects



Built Works

Places

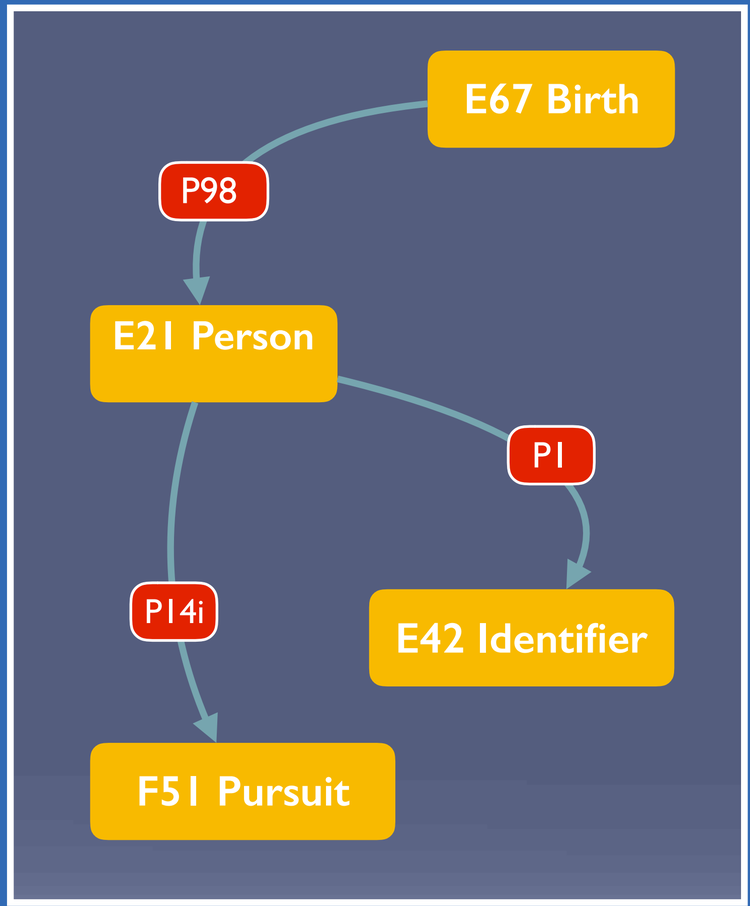
Events

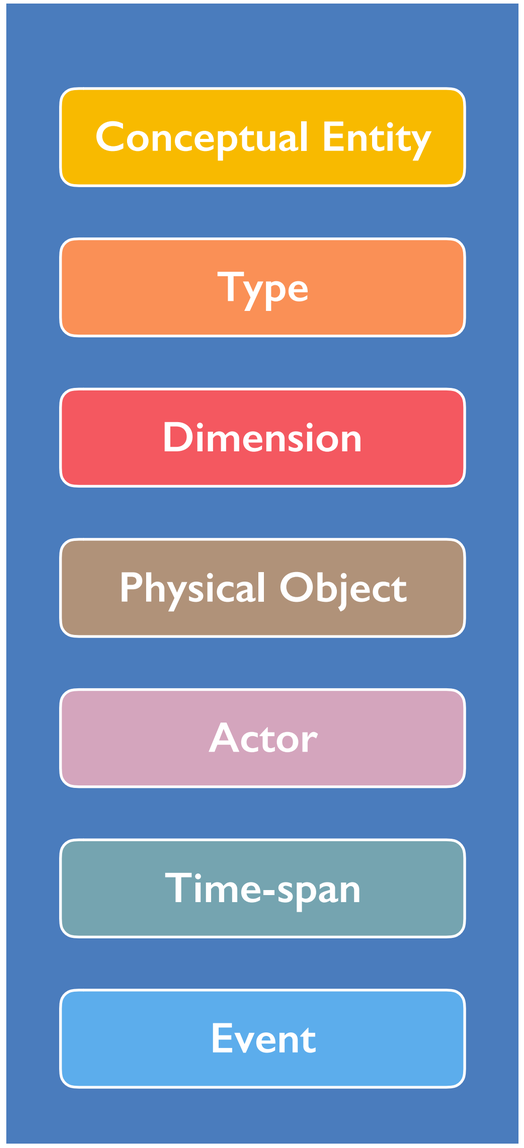
Bibliographic item

- GND Agrelon
- SIKART
- MARC21
- VIAF
- ULAN
- CDWA
- CCO
- VRA
- Schema

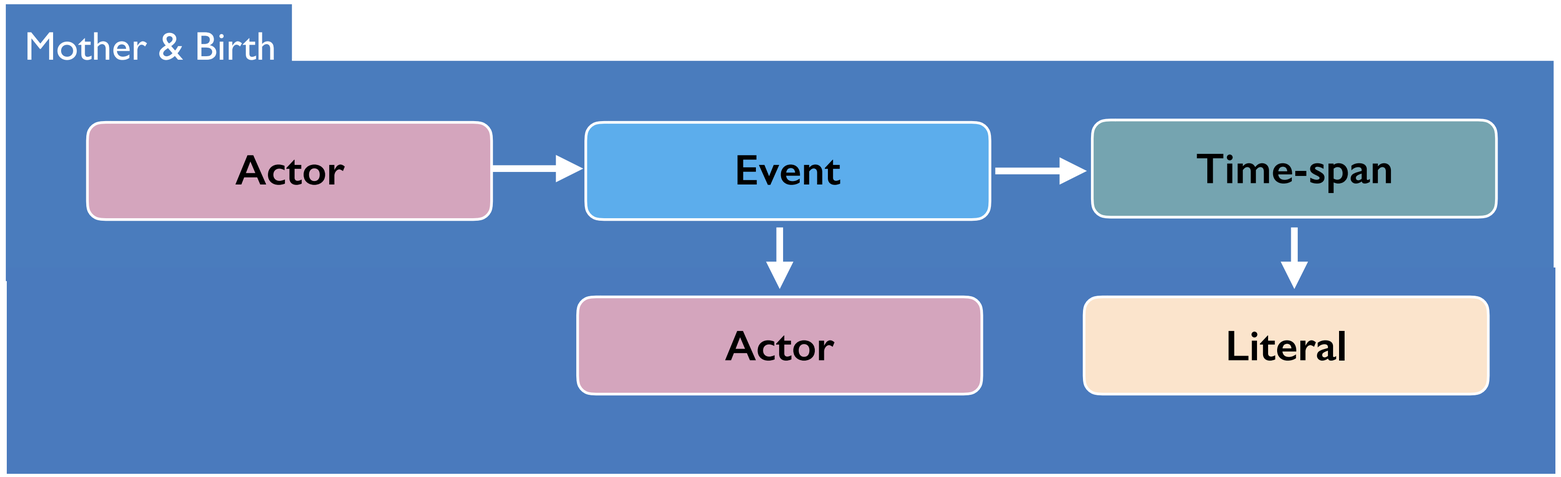
- Identifier Source
- Name
- Part of the name
- Name Language
- Honorific
- Alternate Name
- Alternate Name Type
- Alternate Name Use Period -
- Alternate Name Use Period -
- Gender
- Birth Place

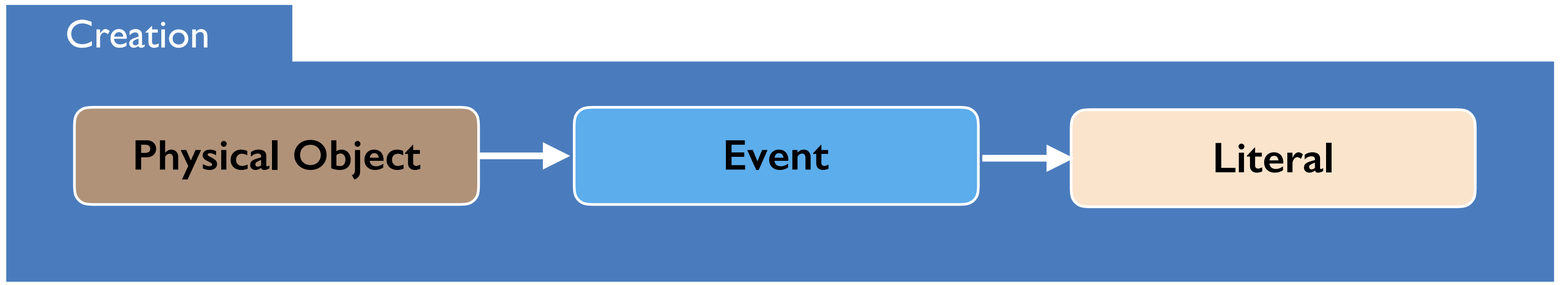
This field is u
indicate addi
names under
documented
known. This
linked to the

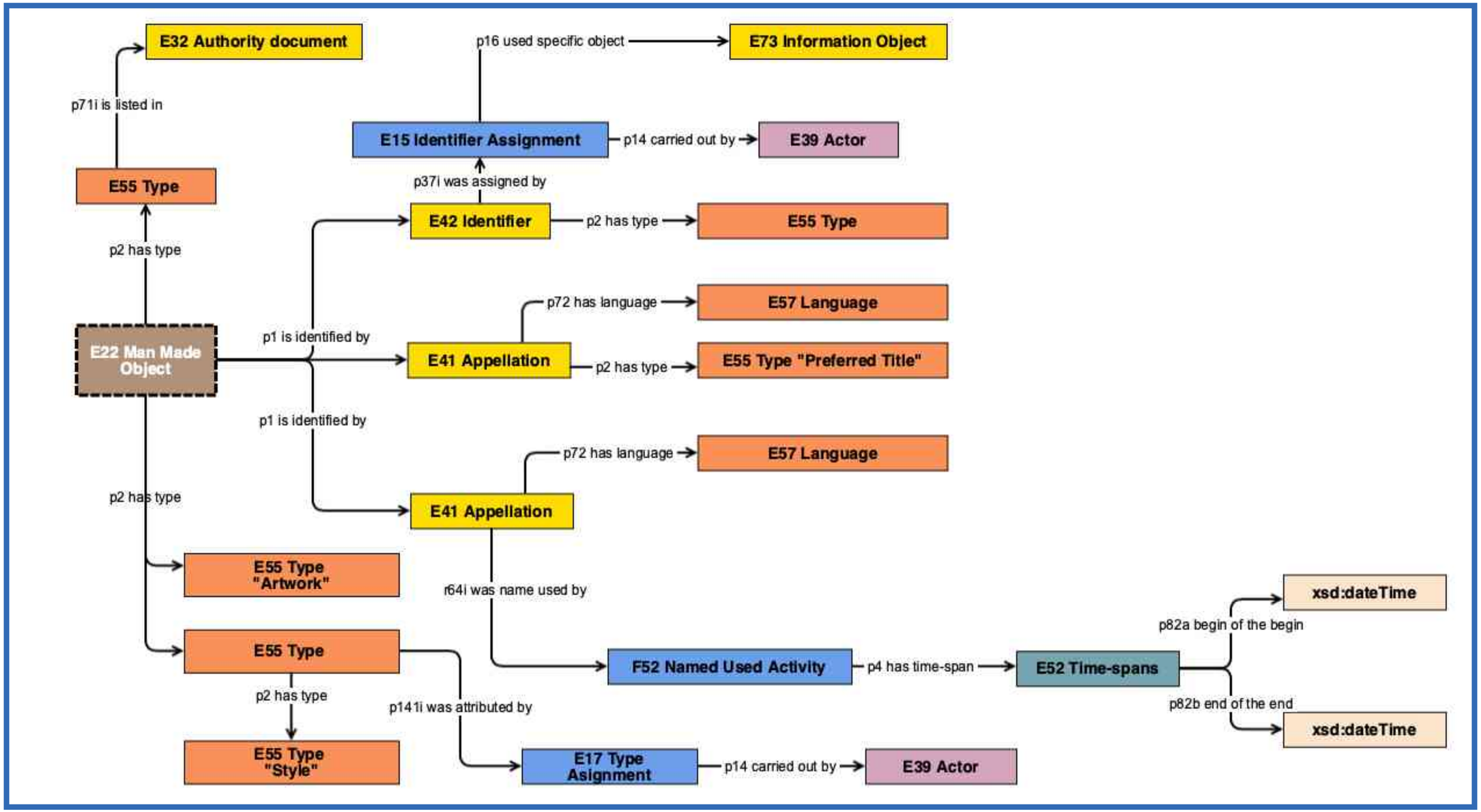


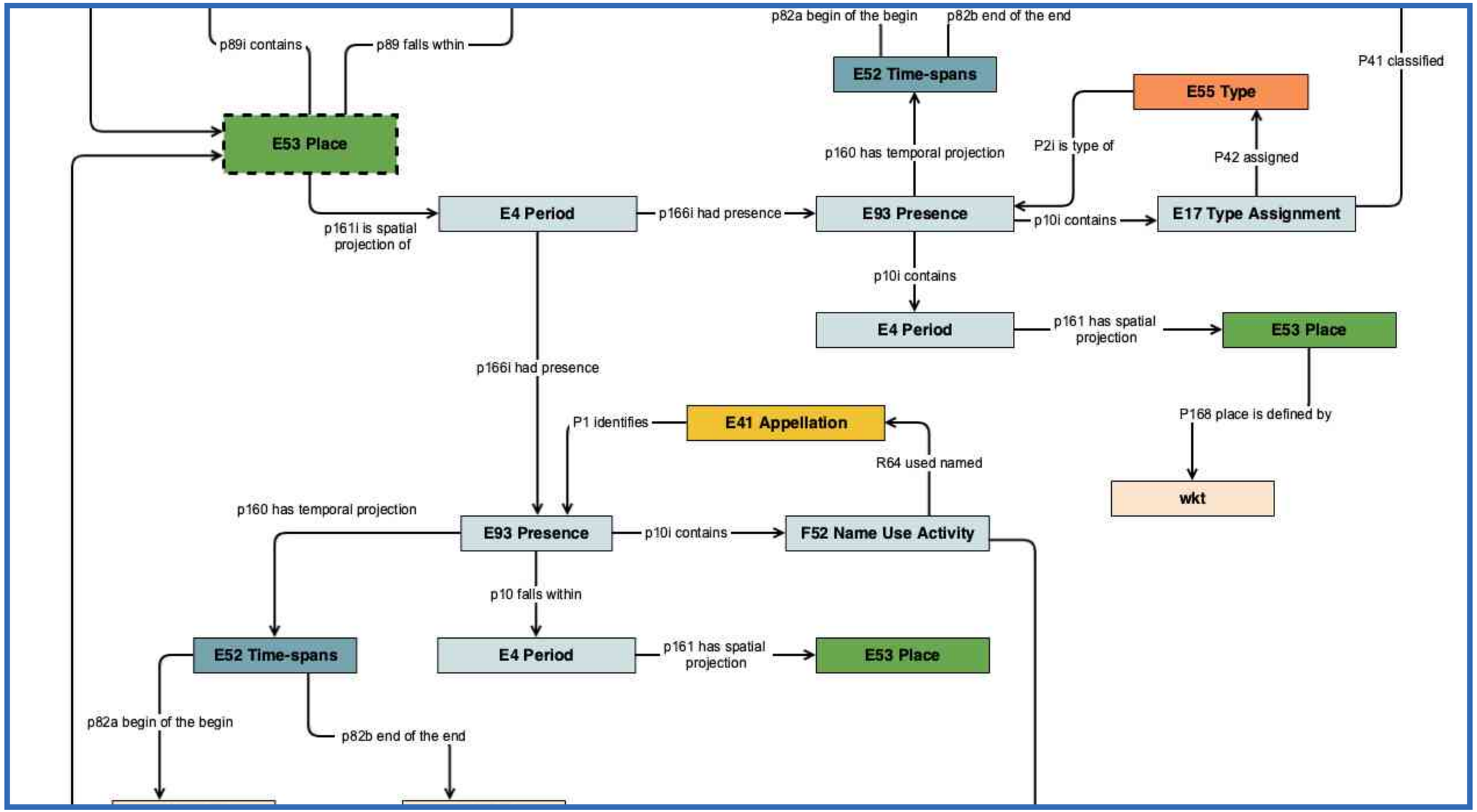

Conceptual Entity
Type
Dimension
Physical Object
Actor
Time-span
Event

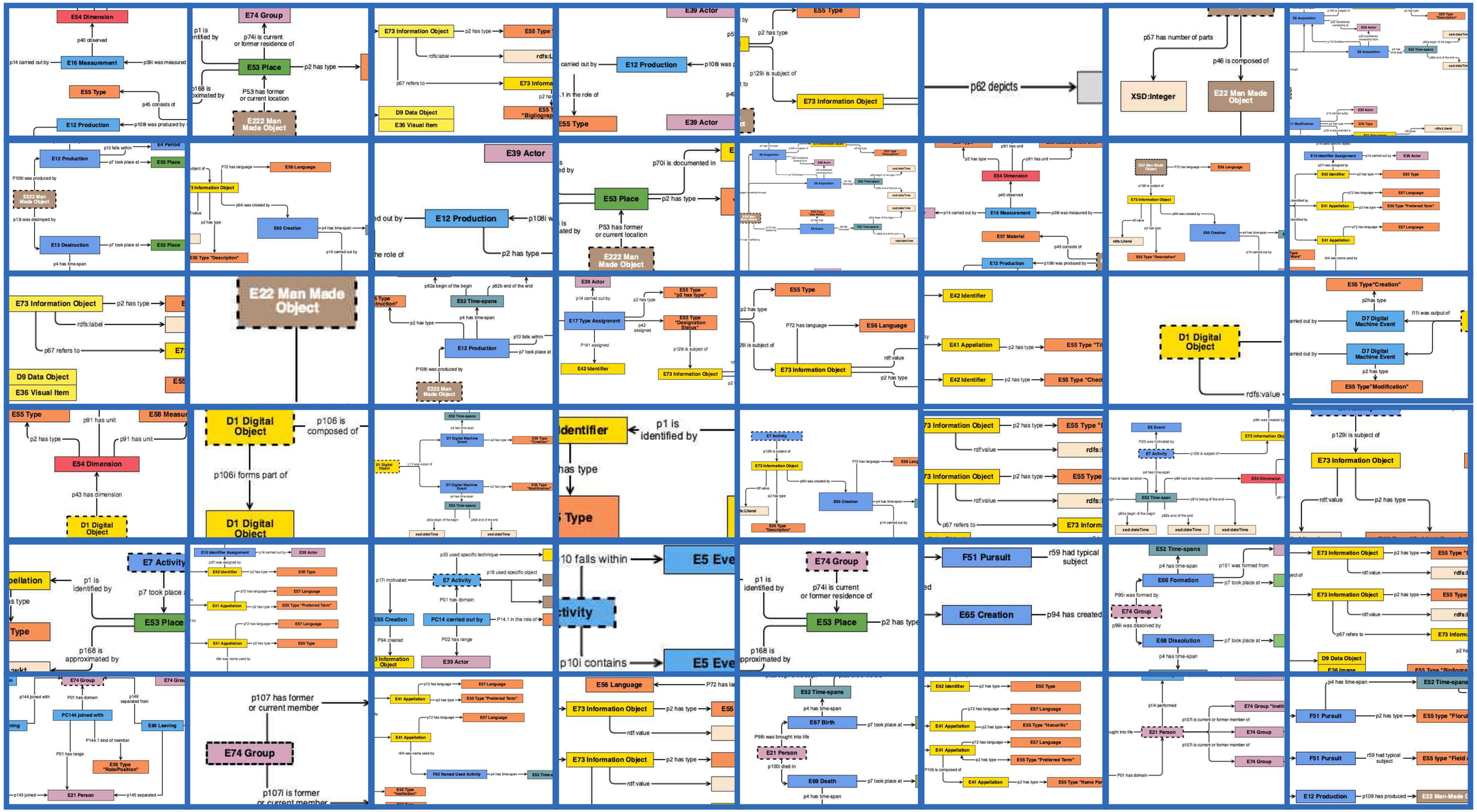
Appellation
Actor
Conceptual Entity
Literal


Mother & Birth
Actor
Event
Time-span
Actor
Literal


Creation
Physical Object
Event
Literal


E32 Authority document
p16 used specific object
E73 Information Object
p71i is listed in
E15 Identifier Assignment
p14 carried out by
E39 Actor
E55 Type
p37i was assigned by
E42 Identifier
p2 has type
E55 Type
p2 has type
p72 has language
E57 Language
E22 Man Made Object
p1 is identified by
E41 Appellation
p2 has type
E55 Type "Preferred Title"
p1 is identified by
p72 has language
E57 Language
p2 has type
E41 Appellation
E55 Type "Artwork"
r64i was name used by
xsd:dateTime
p82a begin of the begin
E55 Type
F52 Named Used Activity
p4 has time-span
E52 Time-spans
p2 has type
p141i was attributed by
p82b end of the end
xsd:dateTime
E55 Type "Style"
E17 Type Asignment
p14 carried out by
E39 Actor


p89i contains
p89 falls wthin
E53 Place
p161i is spatial projection of
E4 Period
p166i had presence
E93 Presence
p82a begin of the begin
p82b end of the end
E52 Time-spans
p160 has temporal projection
P2i is type of
E55 Type
P42 assigned
P41 classified
p10i contains
E17 Type Assignment
E4 Period
p161 has spatial projection
E53 Place
P168 place is defined by
wkt
p166i had presence
P1 identifies
E41 Appellation
R64 used named
p160 has temporal projection
E93 Presence
p10i contains
F52 Name Use Activity
p10 falls within
E52 Time-spans
E4 Period
p161 has spatial projection
E53 Place
p82a begin of the begin
p82b end of the end


E54 Dimension
E16 Measurement
E55 Type
E12 Production
E74 Group
E53 Place
E222 Man Made Object
E73 Information Object
D9 Data Object
E36 Visual Item
E39 Actor
E12 Production
E55 Type
E73 Information Object
p62 depicts
p57 has number of parts
p46 is composed of
XSD:Integer
E22 Man Made Object
E12 Production
E13 Destruction
E39 Actor
E12 Production
E53 Place
E222 Man Made Object
E73 Information Object
D9 Data Object
E36 Visual Item
E22 Man Made Object
E52 Time-spans
E12 Production
E39 Actor
E17 Type Assignment
E42 Identifier
E55 Type
E56 Language
E73 Information Object
E42 Identifier
E41 Appellation
D1 Digital Object
E55 Type
E54 Dimension
D1 Digital Object
D1 Digital Object
p106 is composed of
p106i forms part of
p1 is identified by
E73 Information Object
E7 Activity
E53 Place
E7 Activity
E65 Creation
E39 Actor
E5 Eve
E74 Group
E53 Place
F51 Pursuit
E65 Creation
E52 Time-spans
E66 Formation
E68 Dissolution
E74 Group
E74 Group
E74 Group
E56 Language
E73 Information Object
E73 Information Object
E52 Time-spans
E67 Birth
E21 Person
E69 Death
E21 Person
E74 Group
E74 Group
F51 Pursuit
F51 Pursuit
E12 Production

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additional>

dditional>
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  <entity>
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Alternate Name

Alternate Name

Frey, Adolf

Alternate Name Type

Preffered term

Alternate Name Use Period (earliest)

Select or enter alternate name use period (earliest) here...

Alternate Name Use Period (latest)

Select or enter alternate name use period (latest) here...

Person Gender

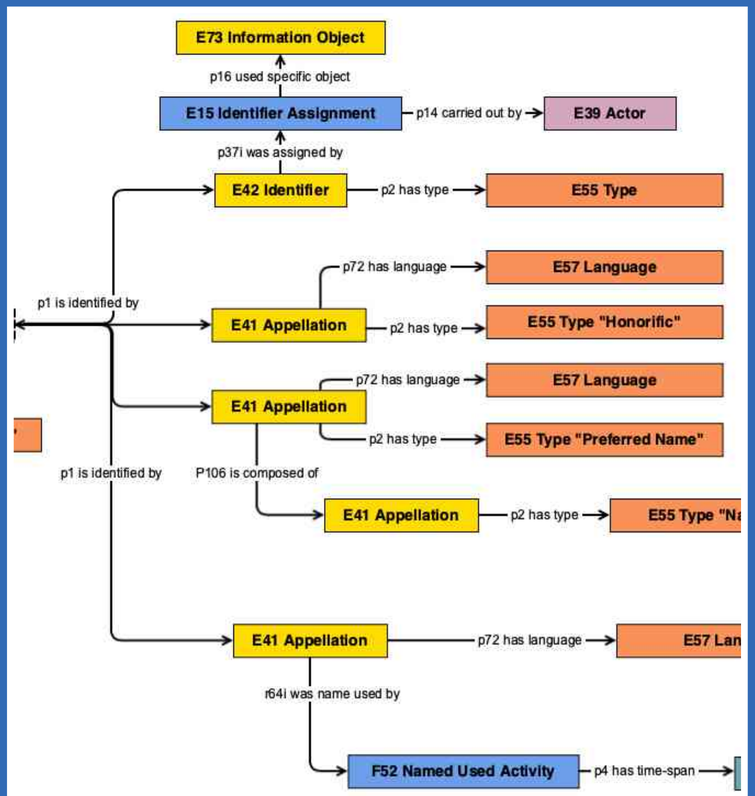
Select person gender here...

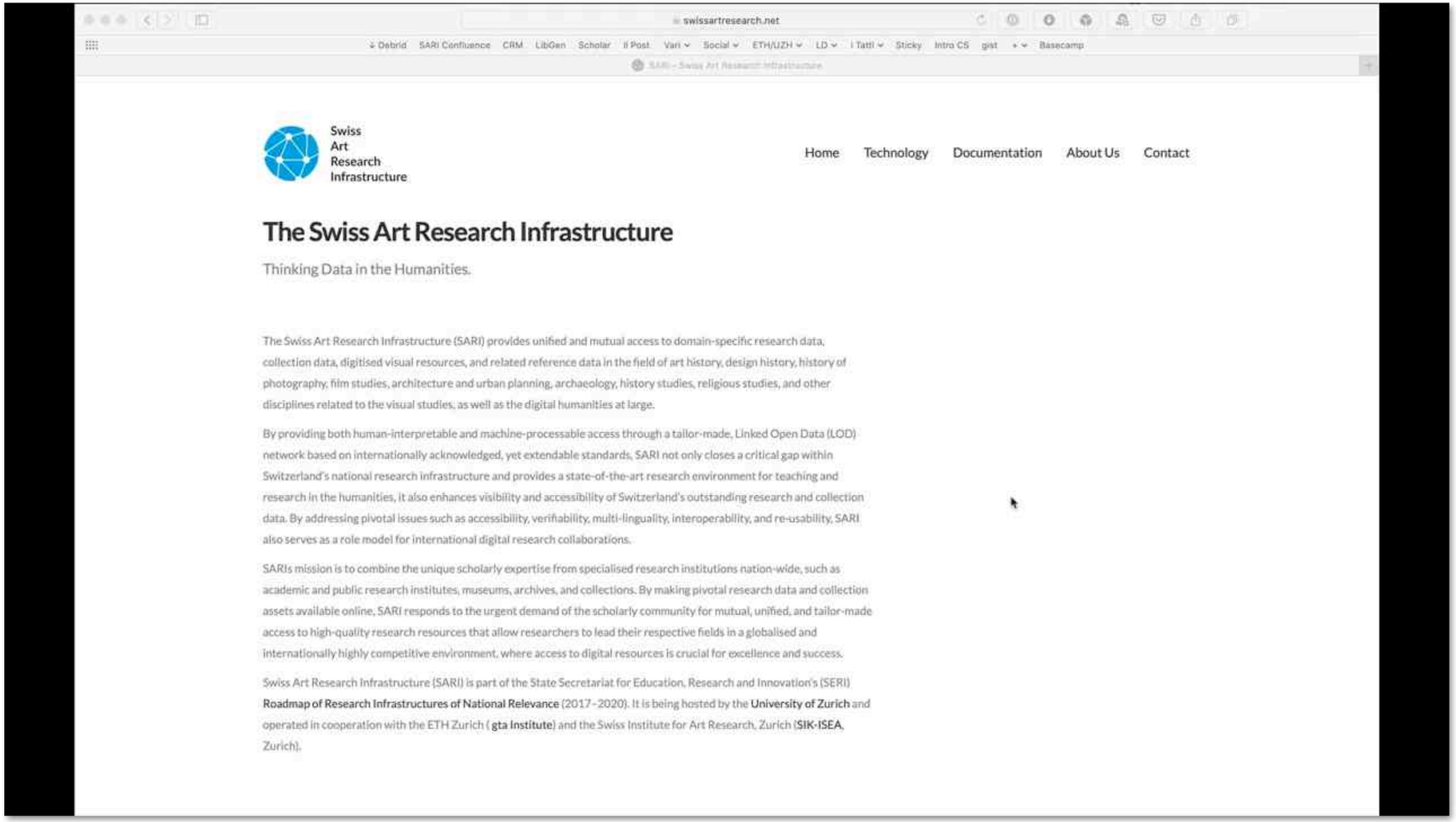
Birth

Birth Place

Search and select birth place here...

Person Birth Date (earliest)

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The Swiss Art Research Infrastructure
Thinking Data in the Humanities.
The Swiss Art Research Infrastructure (SARI) provides unified and mutual access to domain-specific research data, collection data, digitised visual resources, and related reference data in the field of art history, design history, history of photography, film studies, architecture and urban planning, archaeology, history studies, religious studies, and other disciplines related to the visual studies, as well as the digital humanities at large.
By providing both human-interpretable and machine-processable access through a tailor-made, Linked Open Data (LOD) network based on internationally acknowledged, yet extendable standards, SARI not only closes a critical gap within Switzerland's national research infrastructure and provides a state-of-the-art research environment for teaching and research in the humanities, it also enhances visibility and accessibility of Switzerland's outstanding research and collection data. By addressing pivotal issues such as accessibility, verifiability, multi-linguality, interoperability, and re-usability, SARI also serves as a role model for international digital research collaborations.
SARIs mission is to combine the unique scholarly expertise from specialised research institutions nation-wide, such as academic and public research institutes, museums, archives, and collections. By making pivotal research data and collection assets available online, SARI responds to the urgent demand of the scholarly community for mutual, unified, and tailor-made access to high-quality research resources that allow researchers to lead their respective fields in a globalised and internationally highly competitive environment, where access to digital resources is crucial for excellence and success.
Swiss Art Research Infrastructure (SARI) is part of the State Secretariat for Education, Research and Innovation's (SERI) Roadmap of Research Infrastructures of National Relevance (2017–2020). It is being hosted by the University of Zurich and operated in cooperation with the ETH Zurich (gta Institute) and the Swiss Institute for Art Research, Zurich (SIK-ISEA, Zurich).

- [ ] conceptual creation
- [ ] social relationships
- [ ] uncertainty

conceptual creation

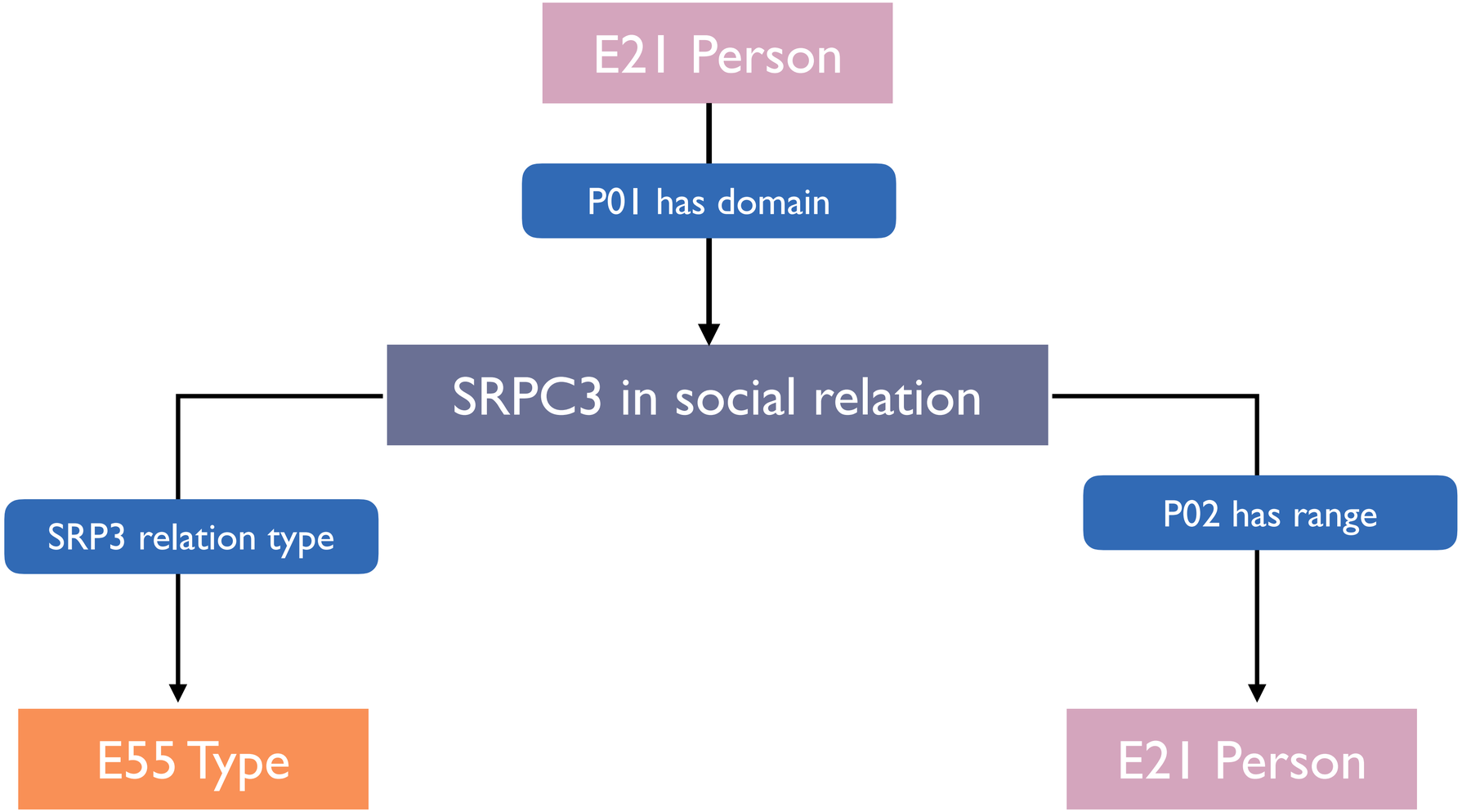
social relationships

uncertainty

social relationships

- Person A is student of Person B
- Person C is patron of Person D
- Person E is cousin of Person F
- Person G is godchild of Person H

social relationships



conceptual creation

social relationships

uncertainty

uncertainty

The problem of uncertainty is a classical one. We subdivide the issue into four different ones:

- imprecise information
- incomplete information
- inconsistent information
- vague information

uncertainty

Imprecise information:

value are present but not precise

Example: The birth of a person is between '01-01-1201' and '31-12-1201'

uncertainty

Incomplete information:

value of an attribute is unknown but discoverable

Example: The mother of a person is born on the '01-01-1201'.

We do not know her name.

uncertainty

Inconsistent information:

More than one value is present and they are inconsistent with each other

Example: the birth of a person happened on the '01-01-1201' OR on the '02-01-1201

uncertainty

vague information:

Situation in which the value of an attribute lack ontological precision

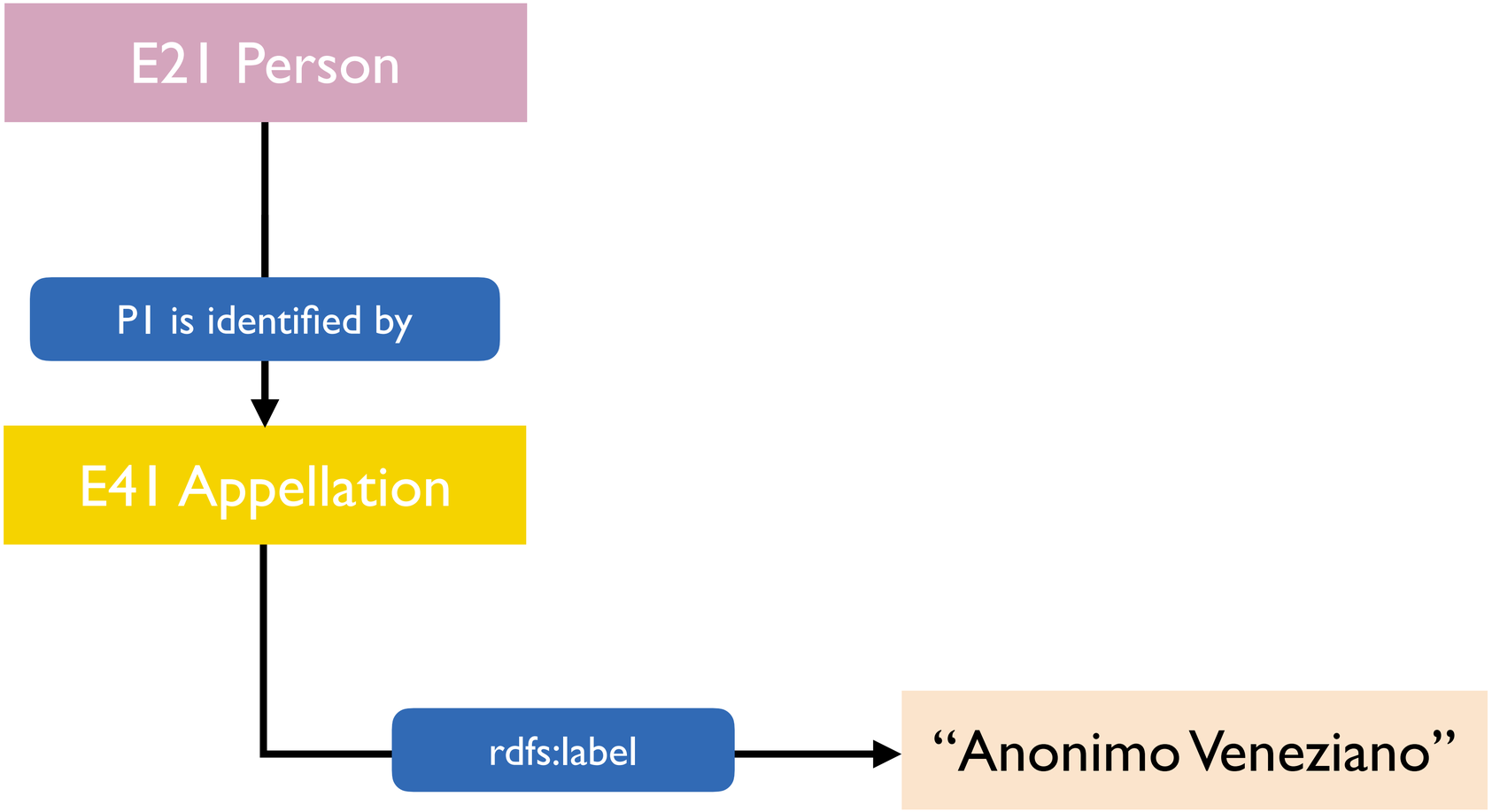
Example: john is young

uncertainty

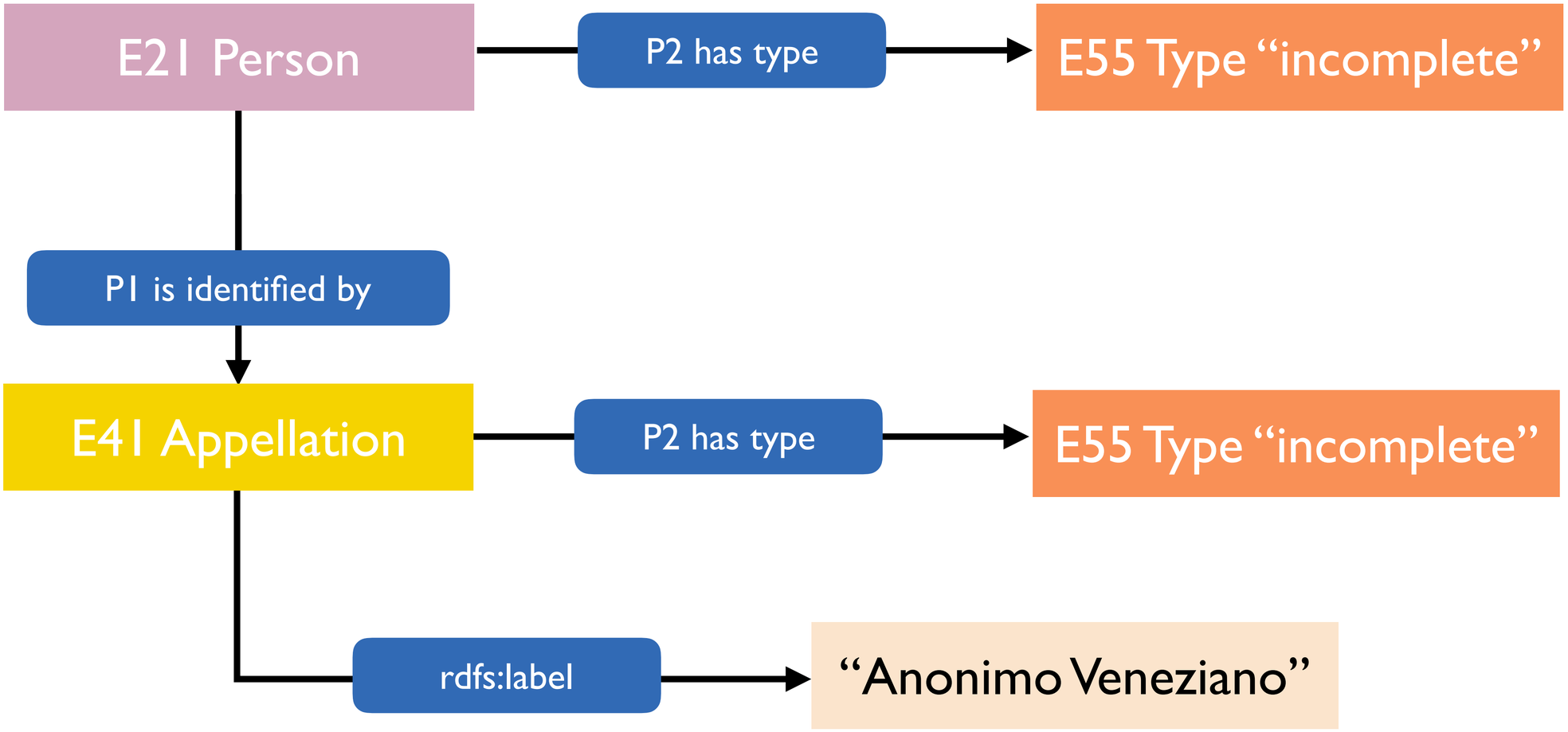
- imprecise information
- incomplete information
- inconsistent information
- vague information

E55 Type

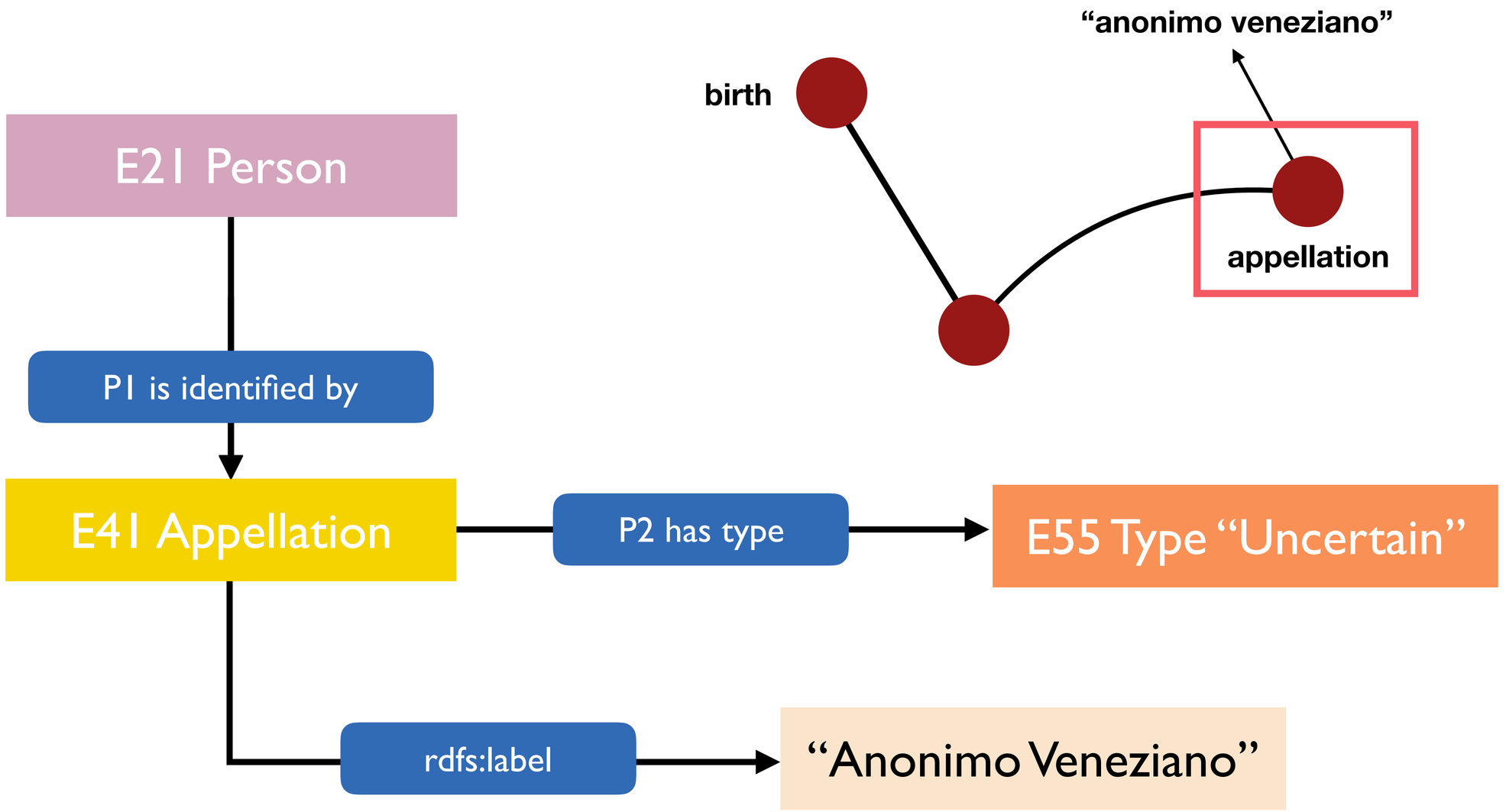
uncertainty



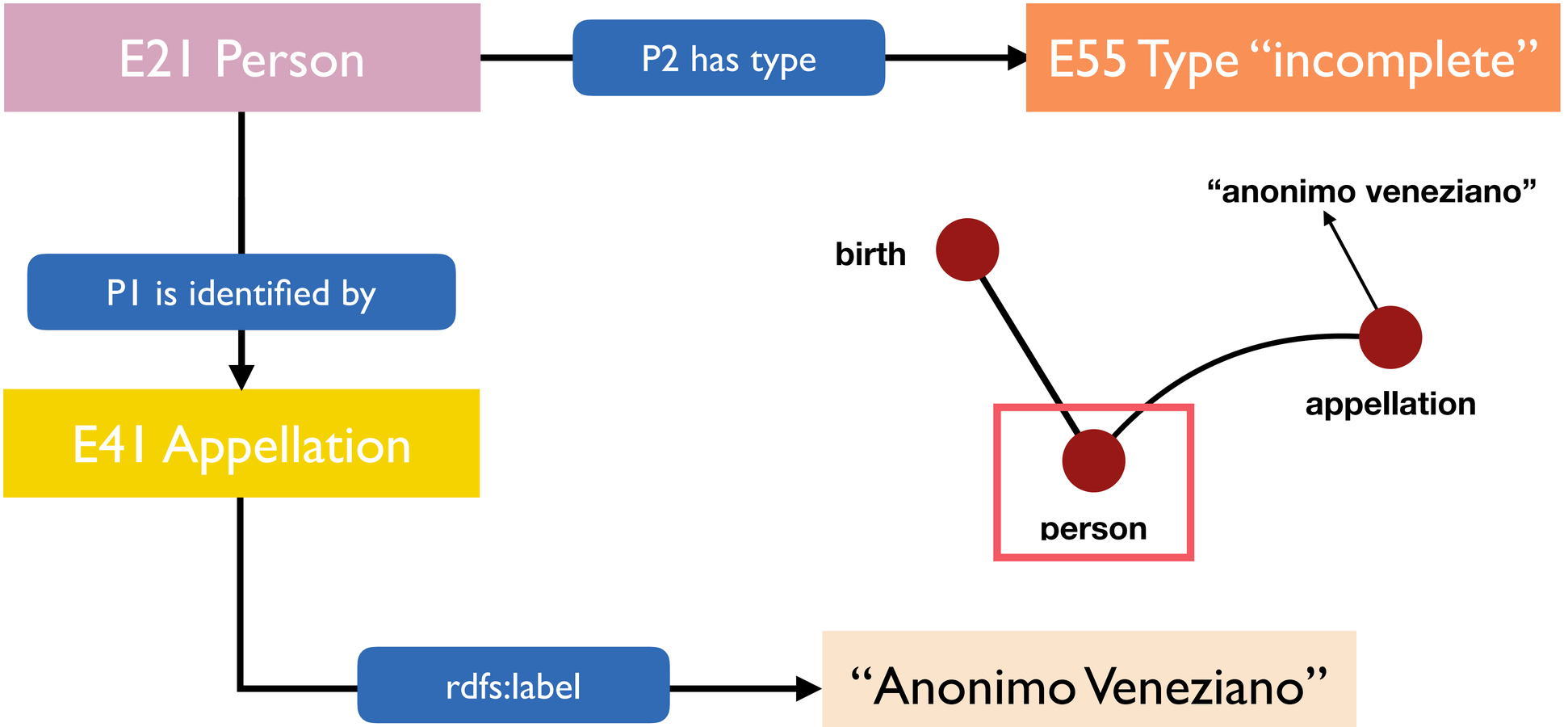
uncertainty



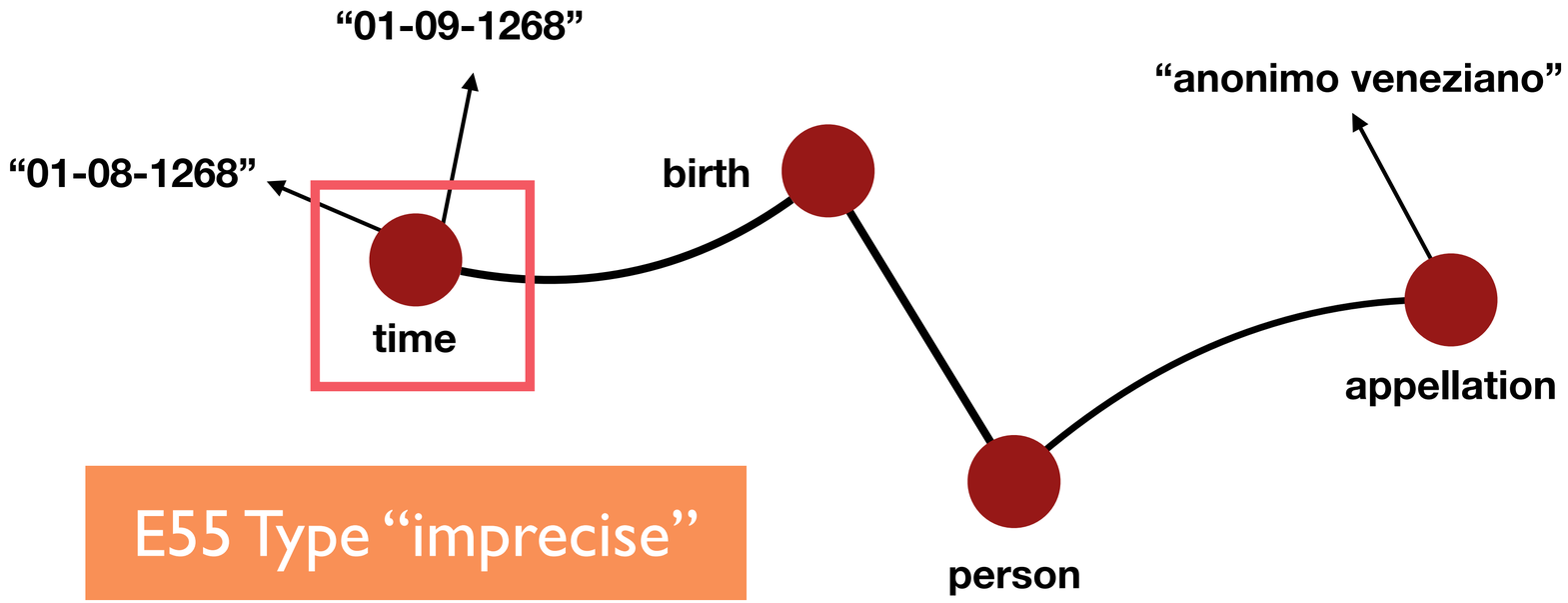
uncertainty



uncertainty



uncertainty



E21 Person

P98 brought into life

E67 Birth

P4 has time-span

E52 Timespan

P2 has type

E55 Type "imprecise"

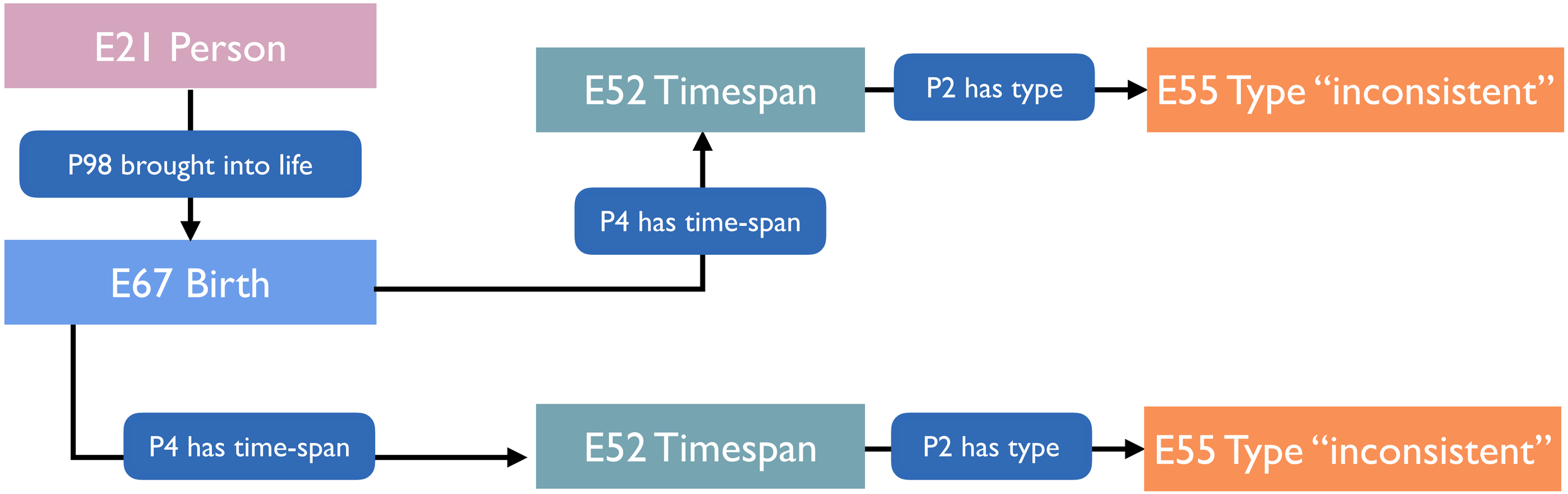
P82a

"01-08-1268"

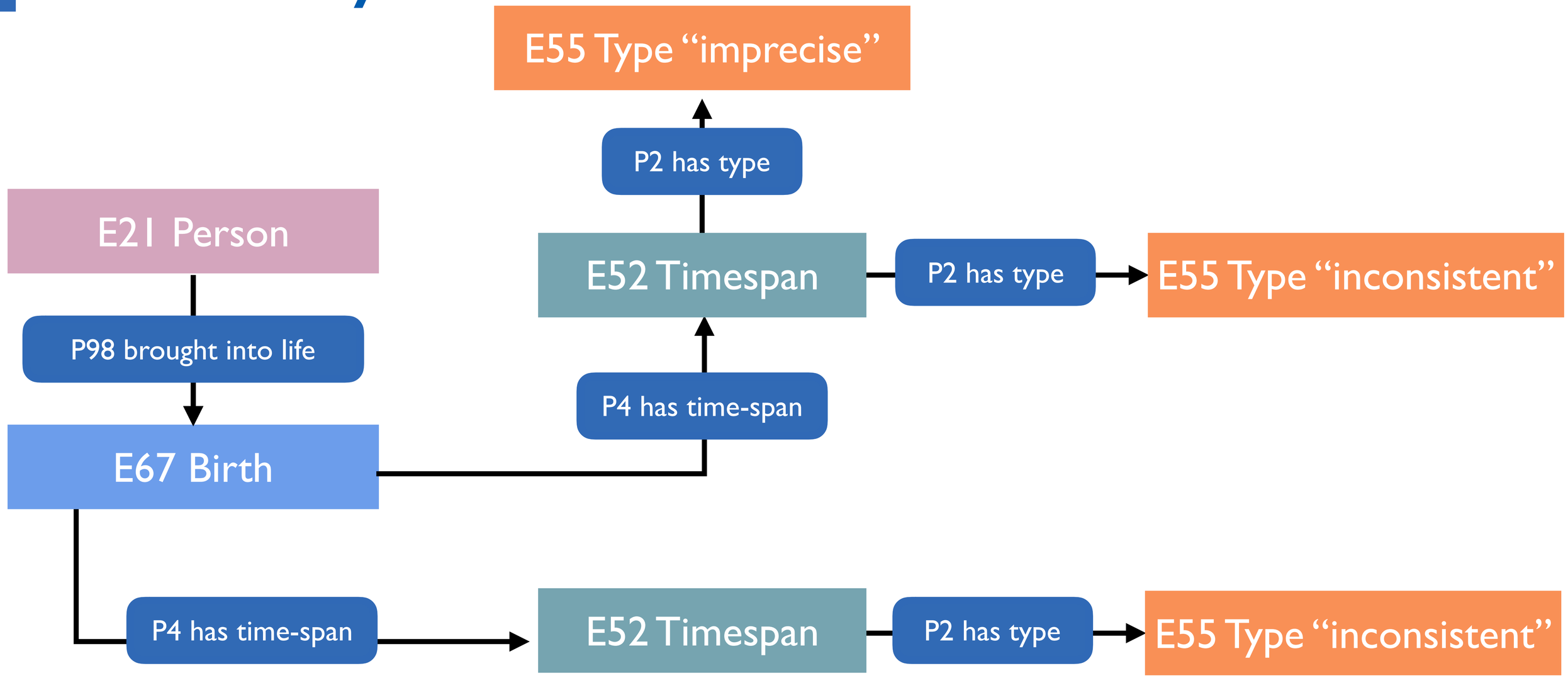
P82b

"01-09-1268"

uncertainty



uncertainty



uncertainty

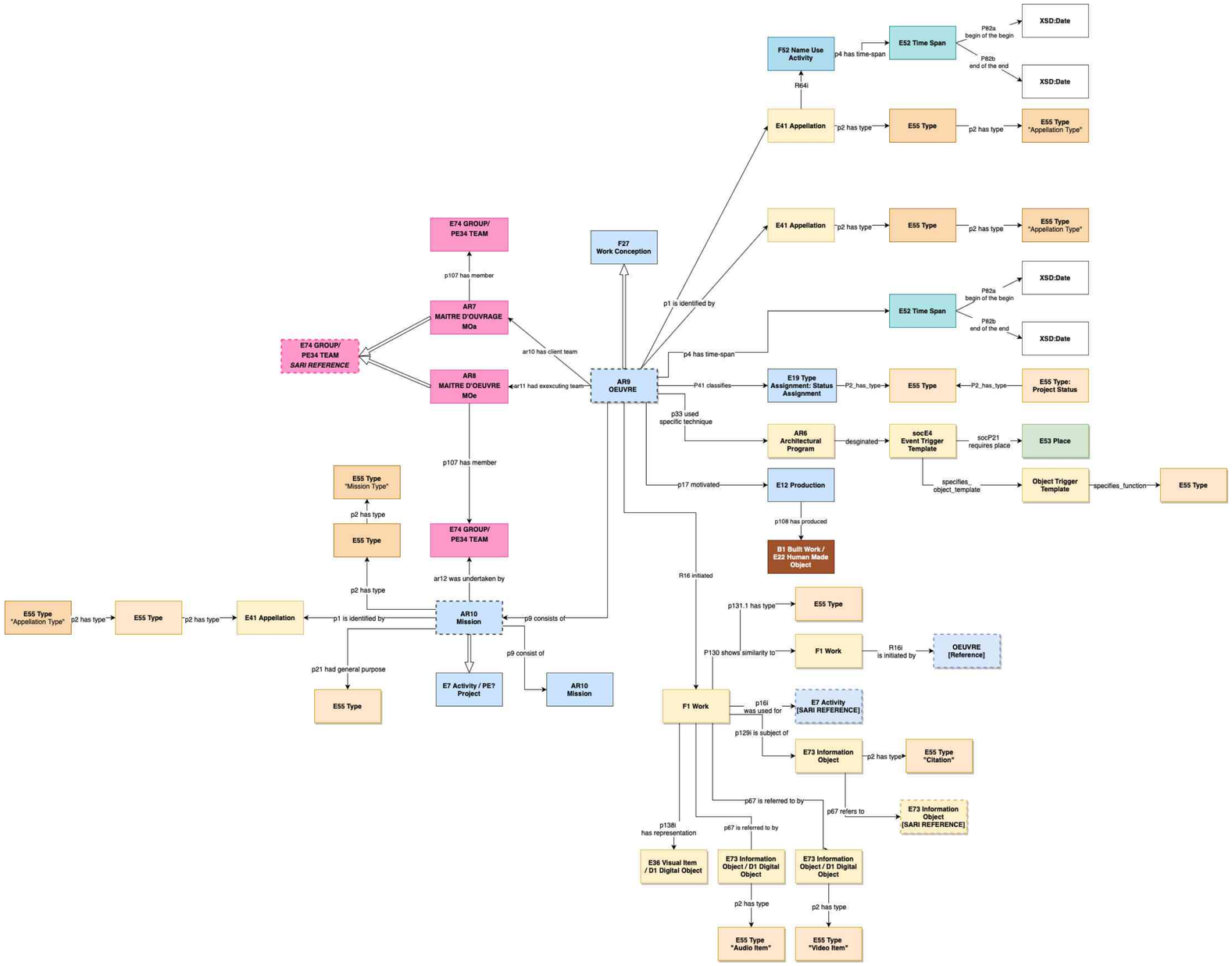
- advantages: easy to implement and use over current information structure.

- disadvantages: not a formal method and subjective.

conceptual creation

social relationships

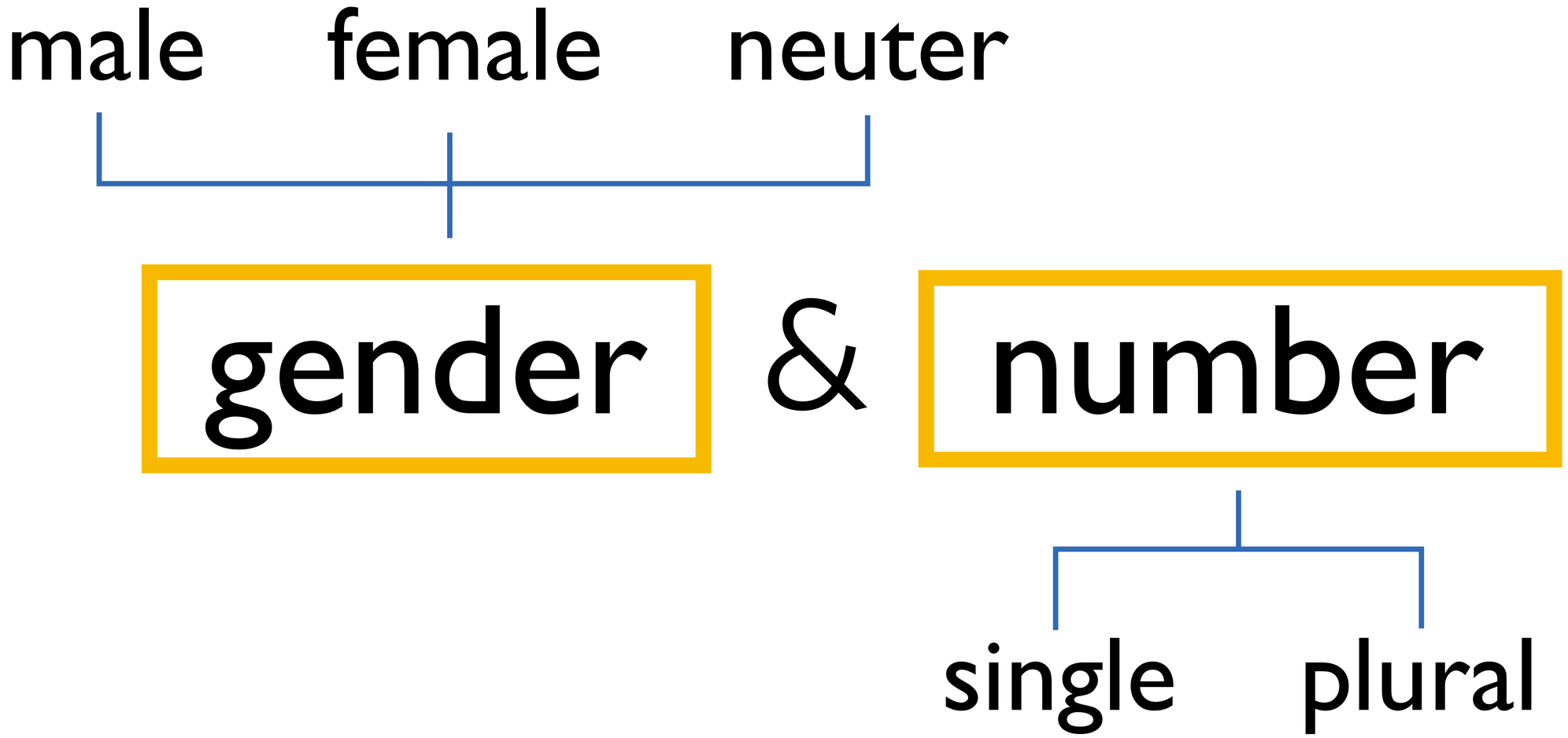
uncertainty


F52 Name Use Activity
p4 has time-span
E52 Time Span
P82a begin of the begin
P82b end of the end
XSD:Date
XSD:Date
R64i
E41 Appellation
p2 has type
E55 Type
p2 has type
E55 Type "Appellation Type"
E41 Appellation
p2 has type
E55 Type
p2 has type
E55 Type "Appellation Type"
E74 GROUP/ PE34 TEAM
F27 Work Conception
p107 has member
AR7 MAITRE D'OUVRAGE MOa
p1 is identified by
E52 Time Span
P82a begin of the begin
P82b end of the end
XSD:Date
XSD:Date
E74 GROUP/ PE34 TEAM SARI REFERENCE
ar10 has client team
p4 has time-span
AR8 MAITRE D'OEUVRE MOe
ar11 had exexcuting team
AR9 OEUVRE
P41 classifies
E19 Type Assignment: Status Assignment
P2_has_type
E55 Type
P2_has_type
E55 Type: Project Status
p33 used specific technique
AR6 Architectural Program
desginated
socE4 Event Trigger Template
socP21 requires place
E53 Place
p107 has member
E55 Type "Mission Type"
p17 motivated
E12 Production
specifies_ object_template
Object Trigger Template
specifies_function
E55 Type
p2 has type
E55 Type
p108 has produced
B1 Built Work / E22 Human Made Object
E74 GROUP/ PE34 TEAM
ar12 was undertaken by
R16 initiated
p2 has type
E55 Type "Appellation Type"
p2 has type
E55 Type
p2 has type
E41 Appellation
p1 is identified by
AR10 Mission
p9 consists of
p131.1 has type
E55 Type
P130 shows similarity to
F1 Work
R16i is initiated by
OEUVRE [Reference]
p21 had general purpose
E55 Type
p9 consist of
E7 Activity / PE? Project
AR10 Mission
F1 Work
p16i was used for
E7 Activity [SARI REFERENCE]
p129i is subject of
E73 Information Object
p2 has type
E55 Type "Citation"
p67 is referred to by
p67 refers to
E73 Information Object [SARI REFERENCE]
p138i has representation
p67 is referred to by
E36 Visual Item / D1 Digital Object
E73 Information Object / D1 Digital Object
E73 Information Object / D1 Digital Object
p2 has type
p2 has type
E55 Type "Audio Item"
E55 Type "Video Item"

others..

- [x] others..
- [ ] terminology & language
- [ ] vocabularies

terminology



German → **de**

Swiss German → **gsw-CH**

Austrian German → **de-AT**

Swiss Standard German → **de-CH**

German → **de-DE**

vocabularies

- social types
- occupation
- nationalities
- architecture

where

- **Swiss Art Research Infrastructure**

  https://www.swissartresearch.net

- **Reference Data Models**

  https://docs.swissartresearch.net

- **Resources**

  https://github.com/swiss-art-research-net/

THANK YOU