

# Swiss Art Research Infrastructure

## Resources & Methodologies

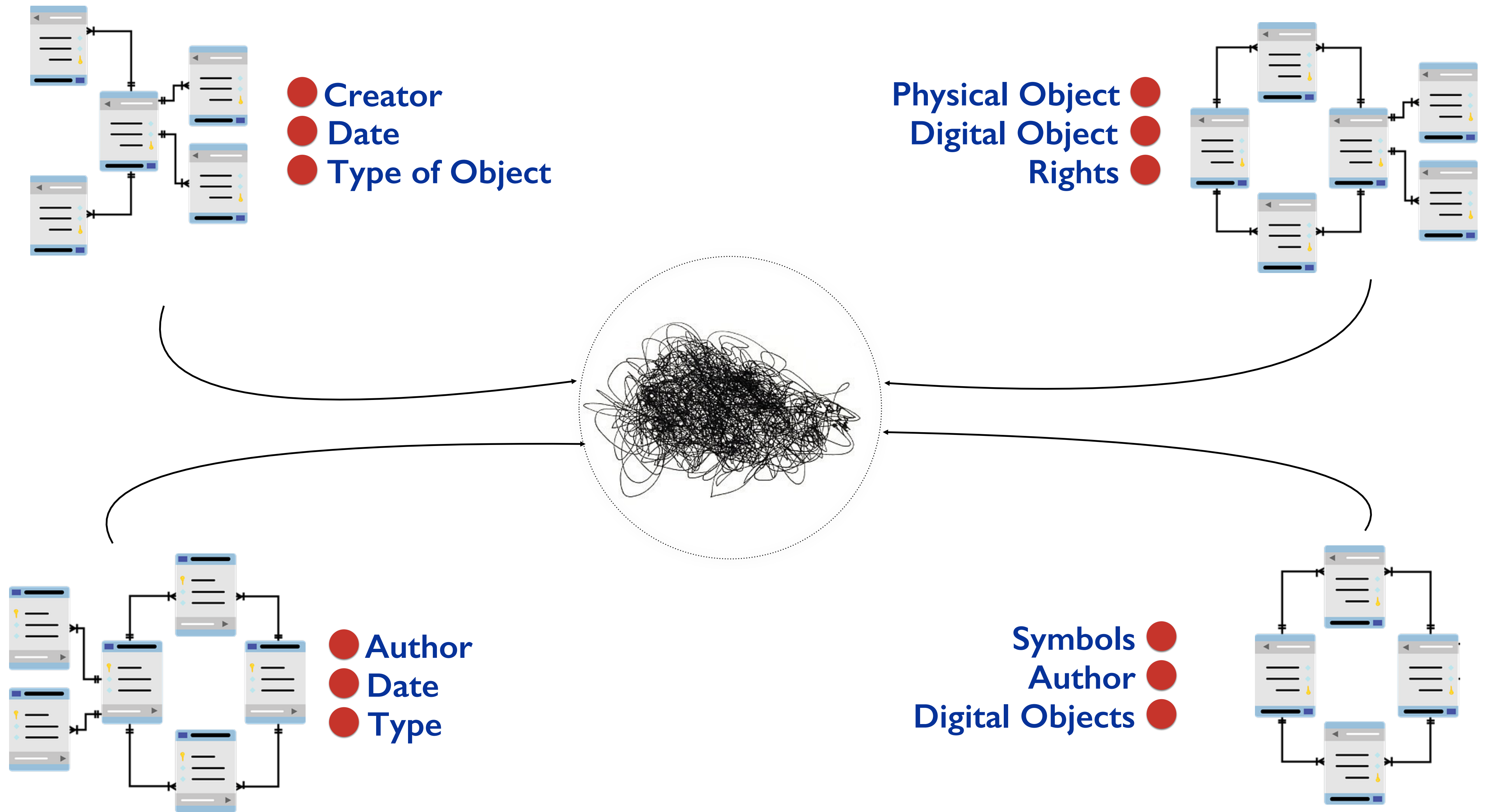


Swiss  
Art  
Research  
Infrastructure

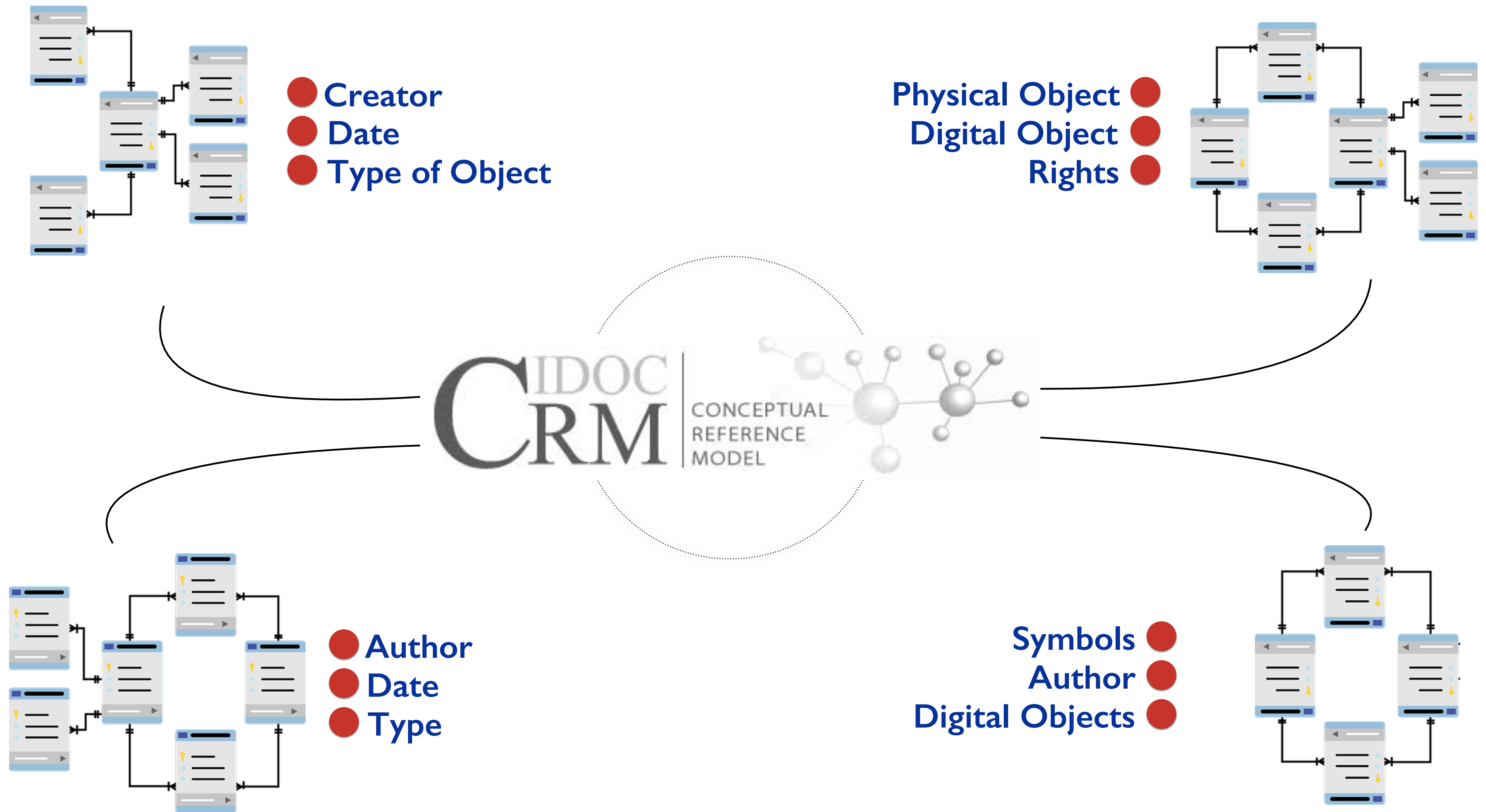


University of  
Zurich<sup>UZH</sup>

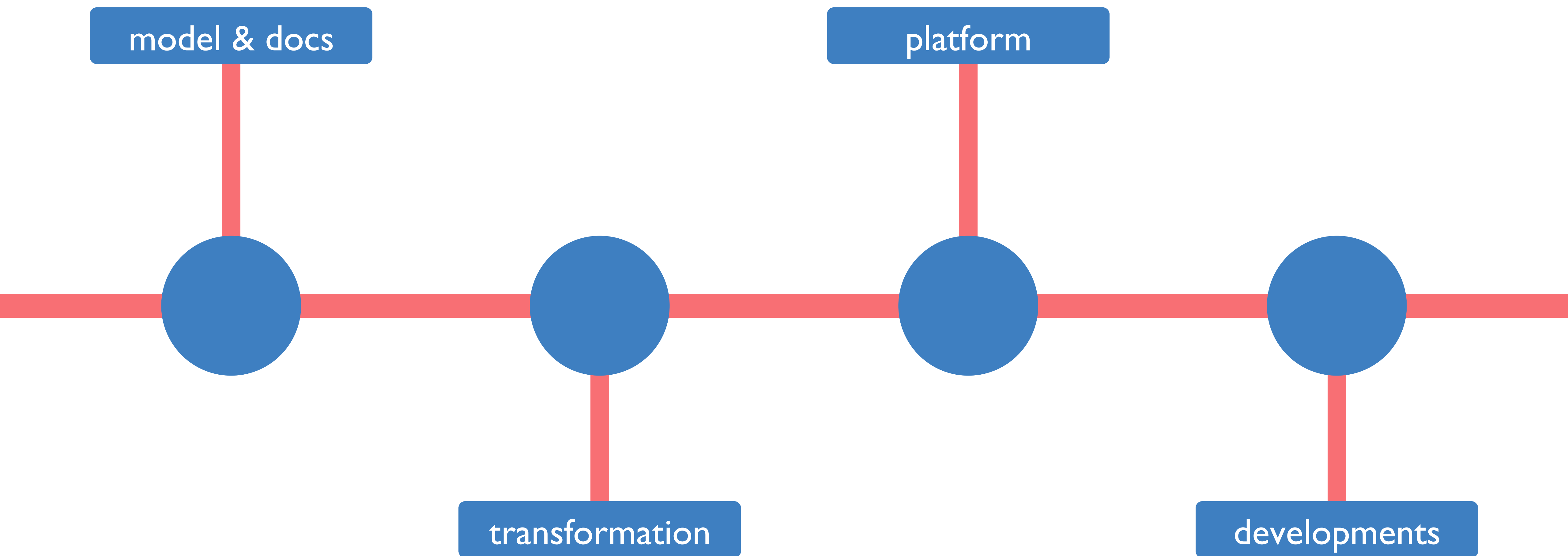
**ETH** zürich

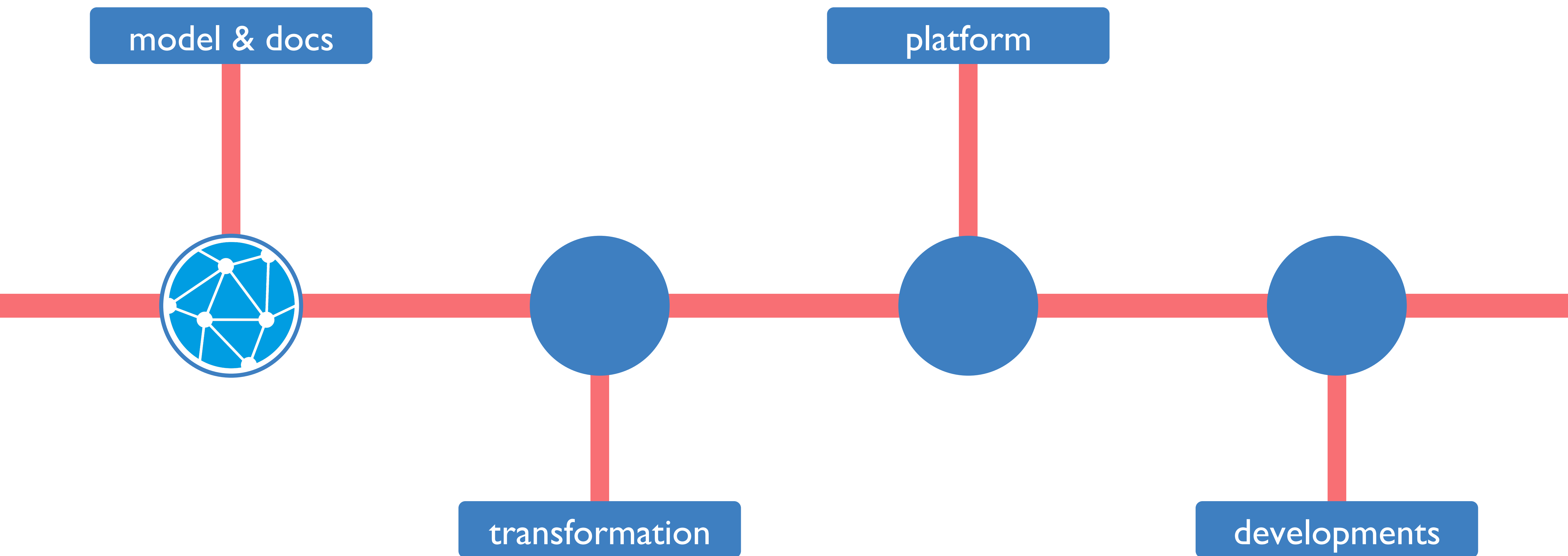




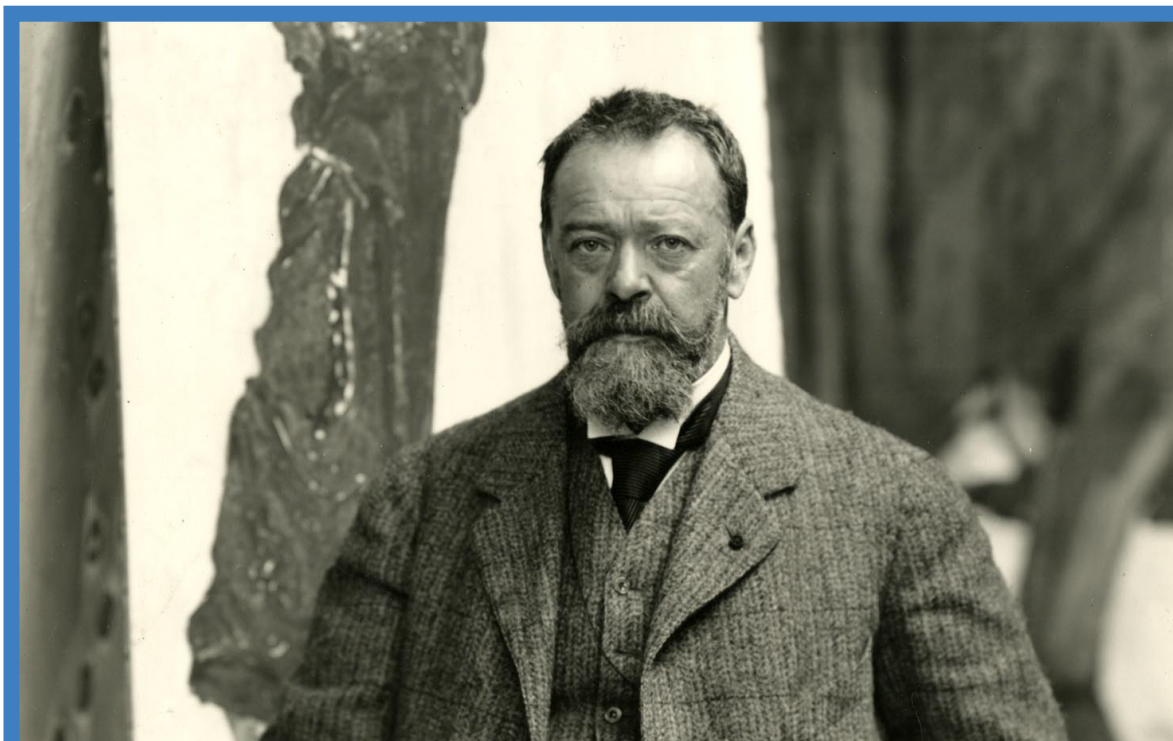




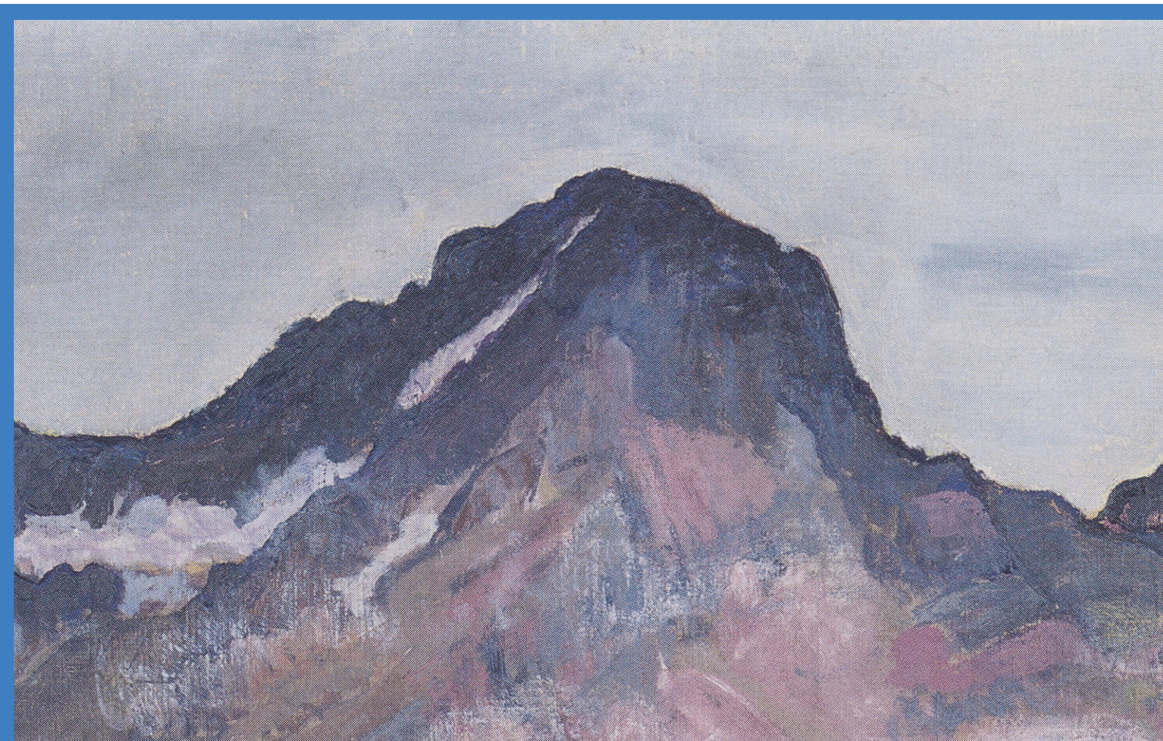








Persons



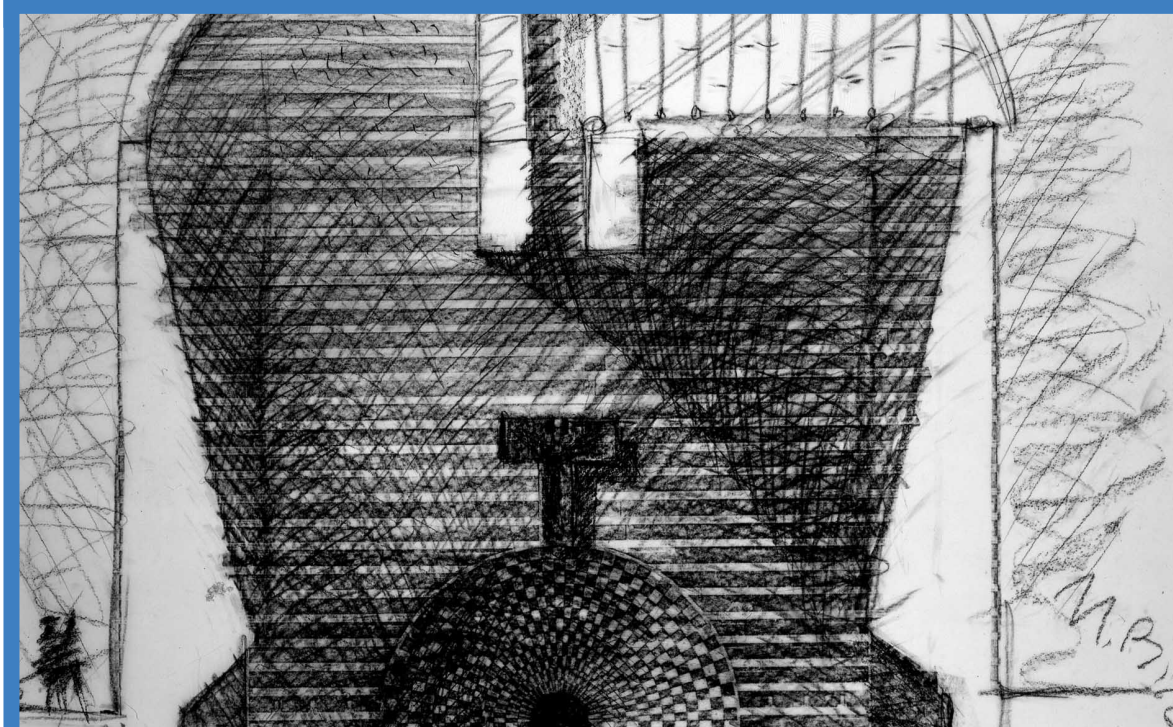
Artworks



Group



Digital Objects



Built Works



Places

**HODLER**  
**PARALLELISM**

14.09.2018 – 13.01.2019

Events

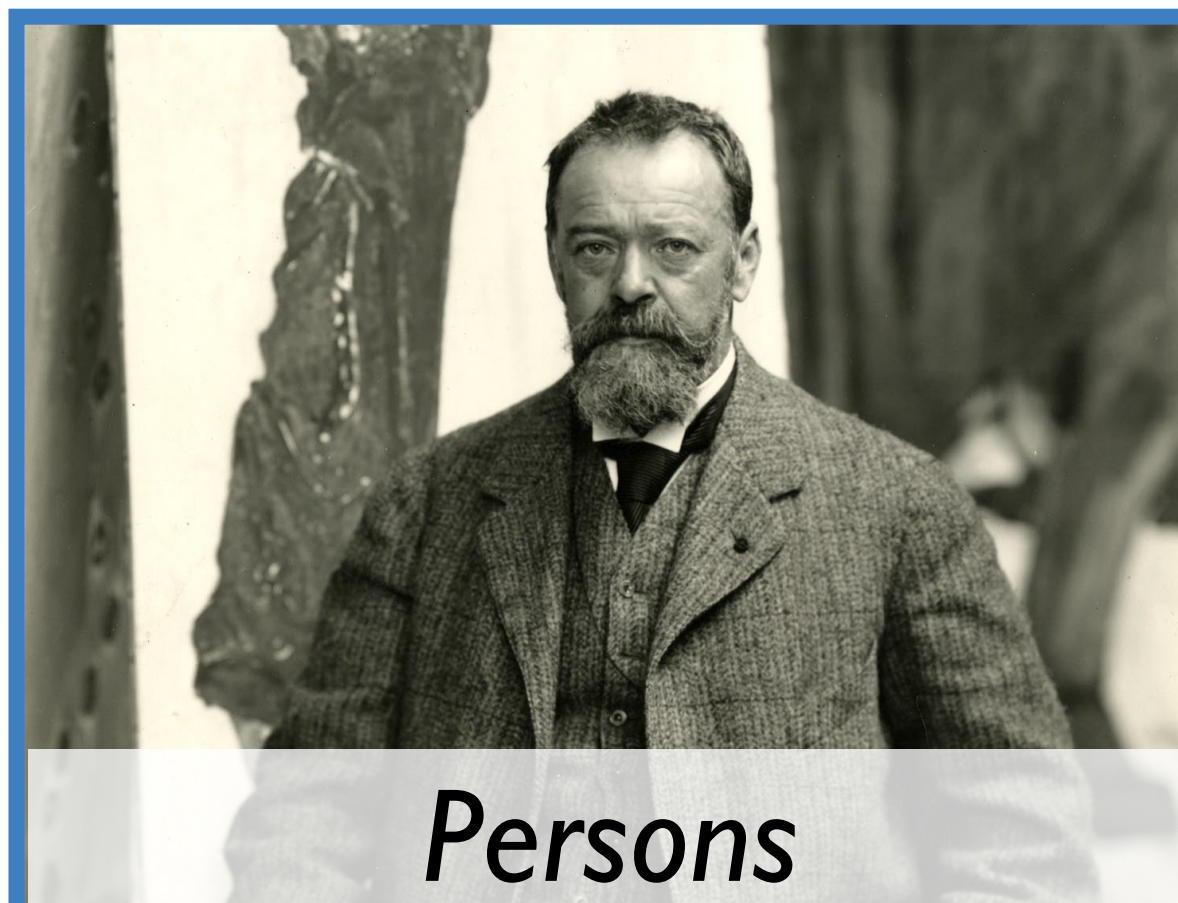
**Hodler**

Catalogue raisonné der Gemälde | Band 1 | Die Landschaften | Teilband 2

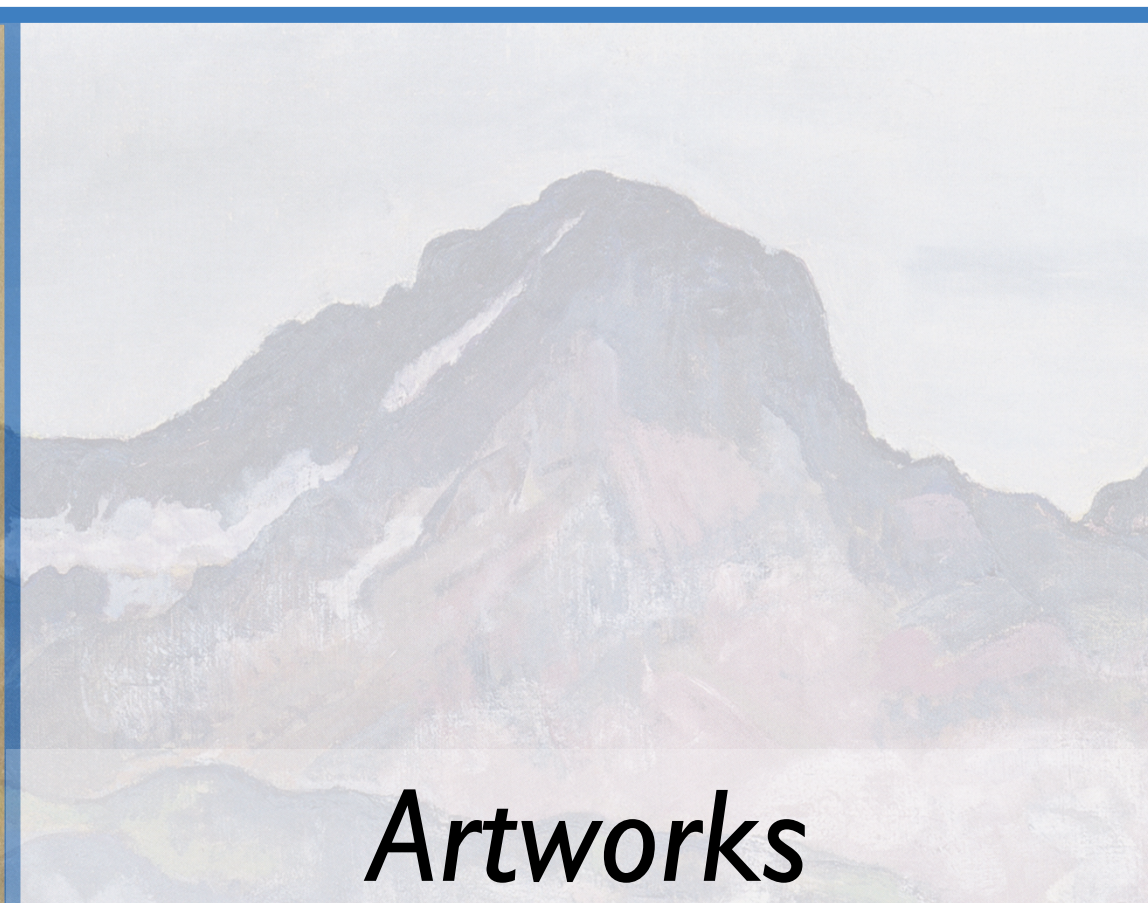


Bibliographic item





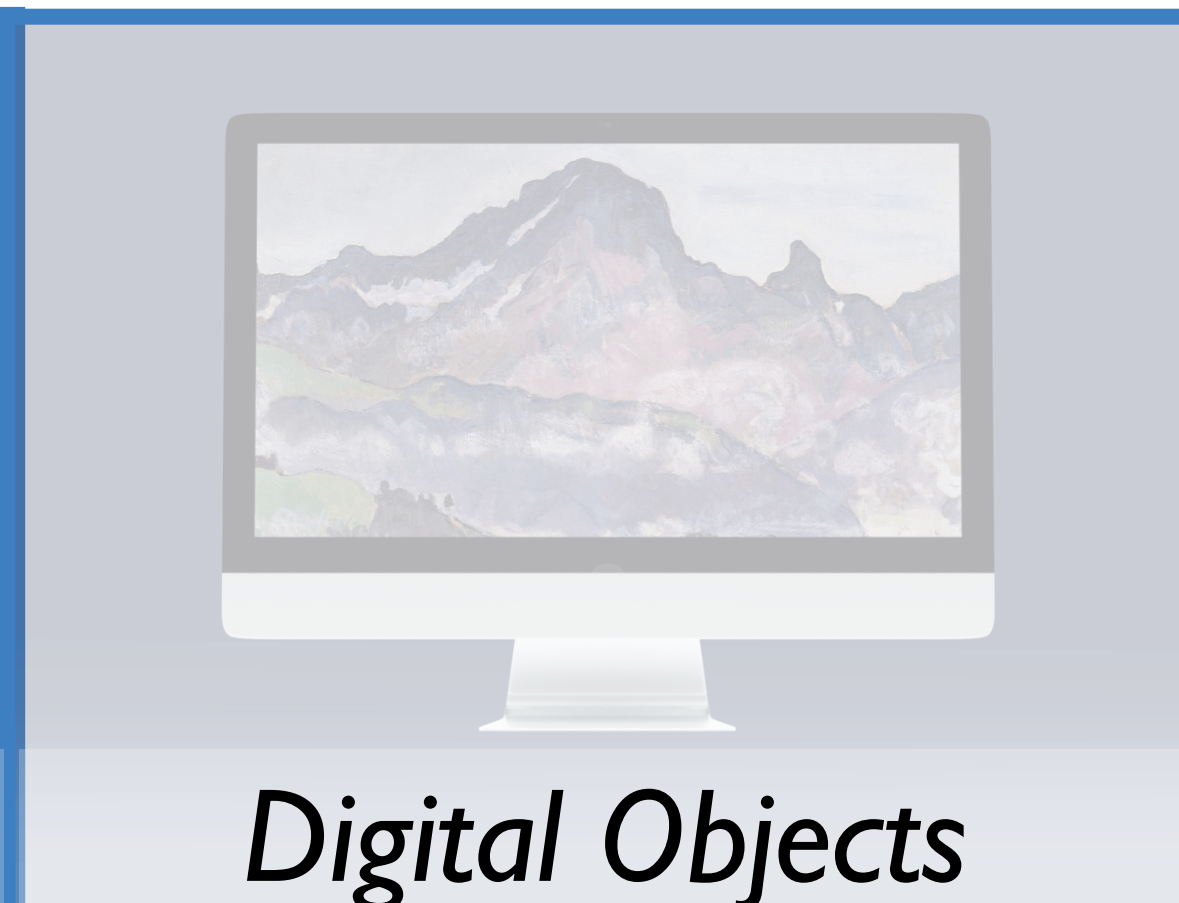
*Persons*



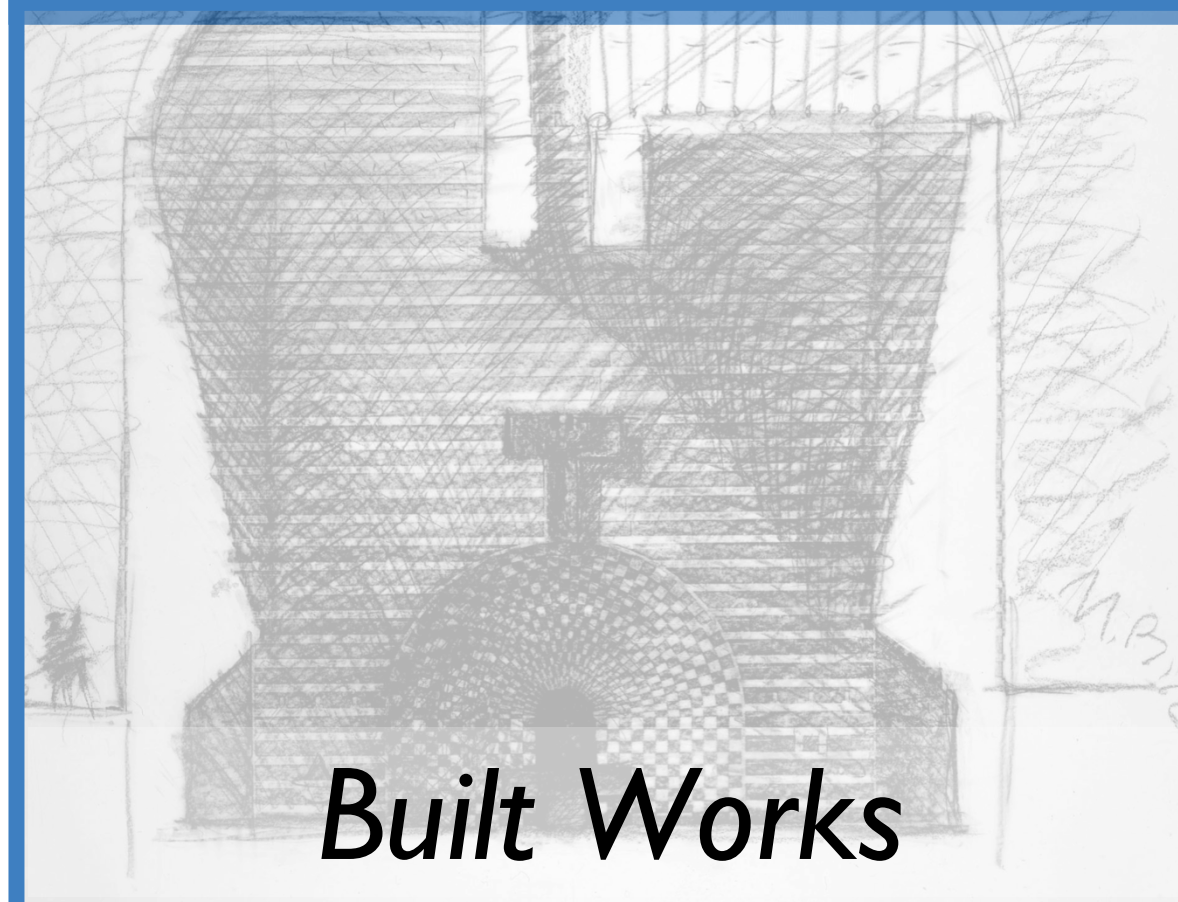
*Artworks*



*Group*



*Digital Objects*



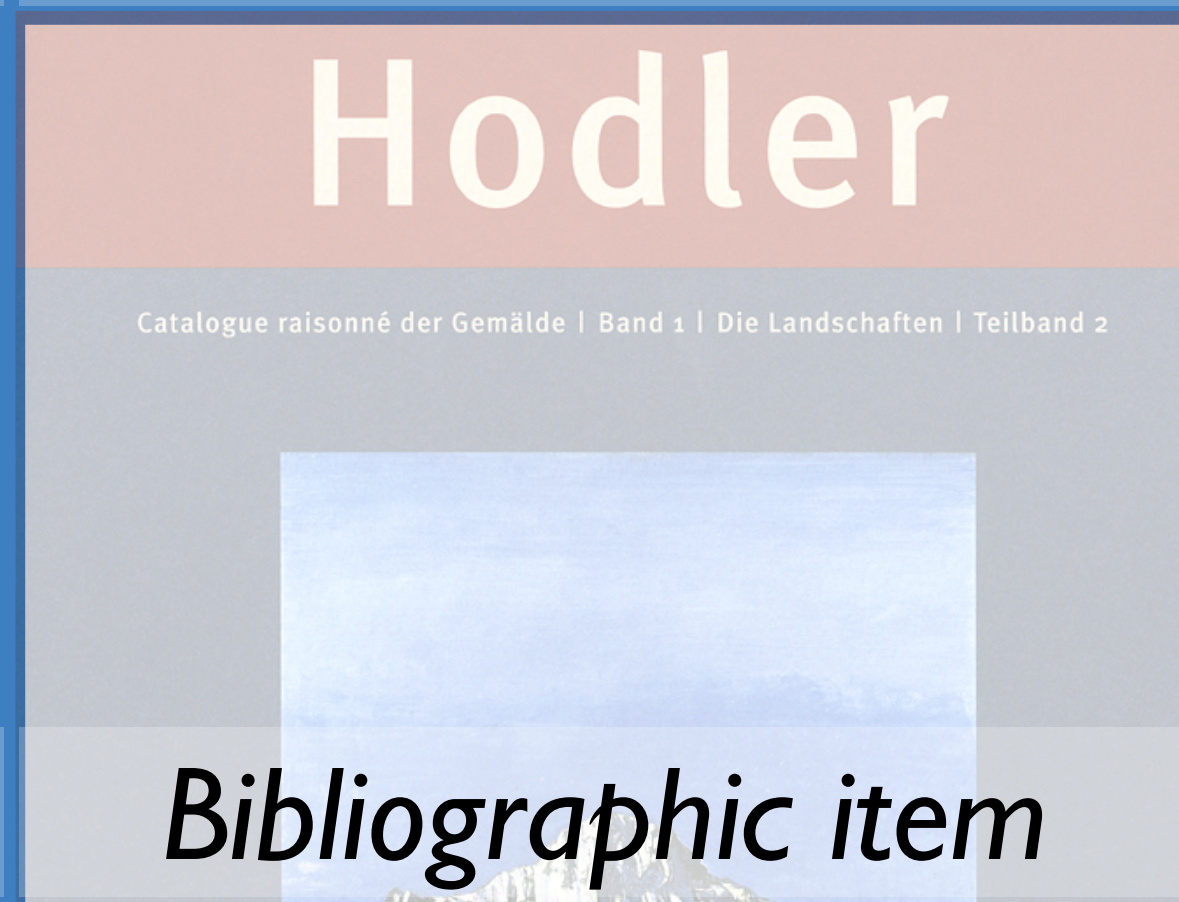
*Built Works*



*Places*



*Events*



*Bibliographic item*

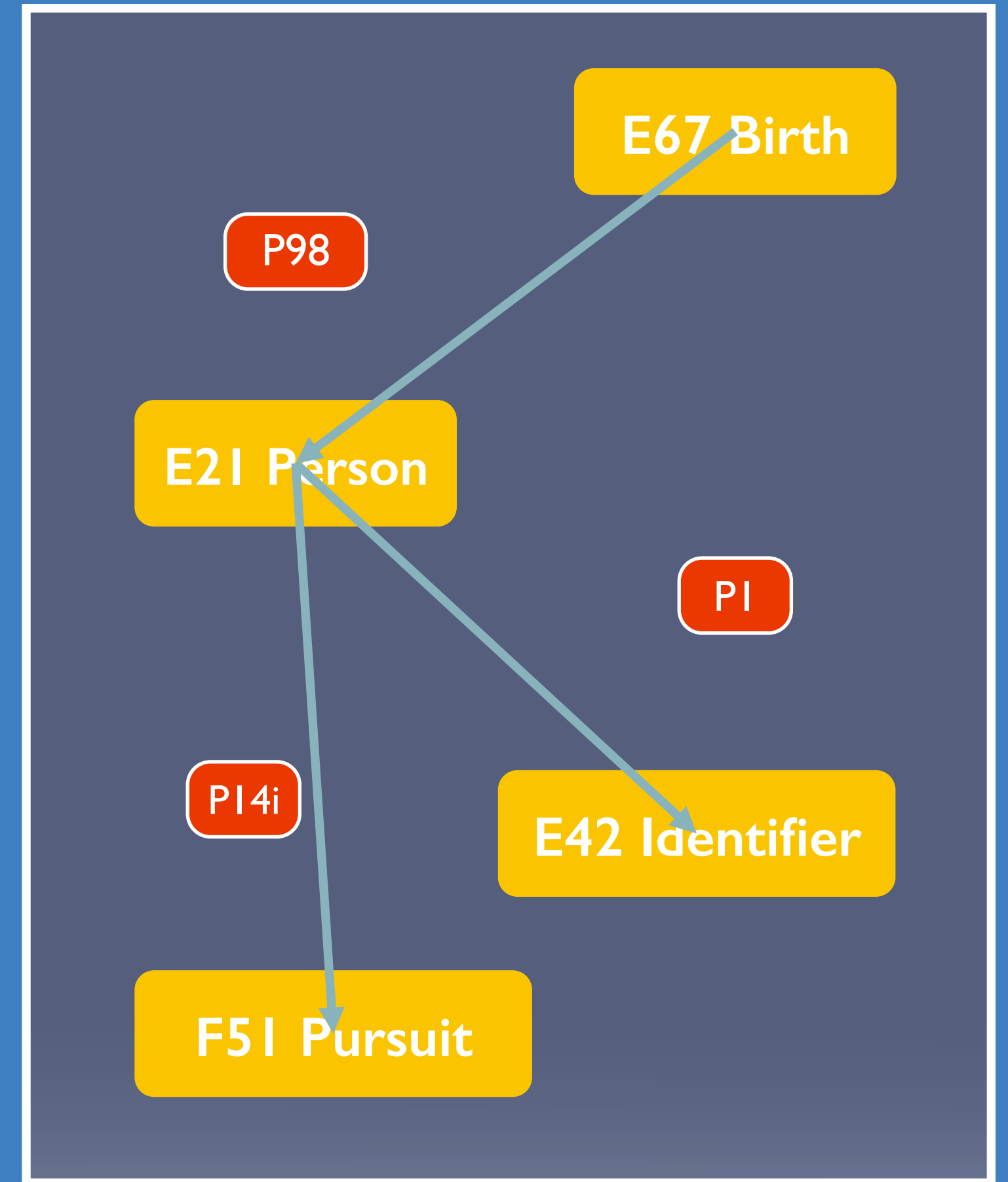




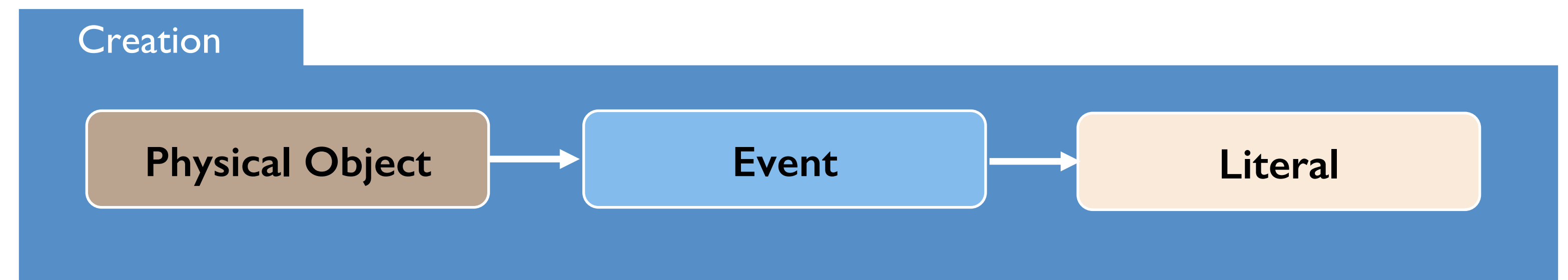
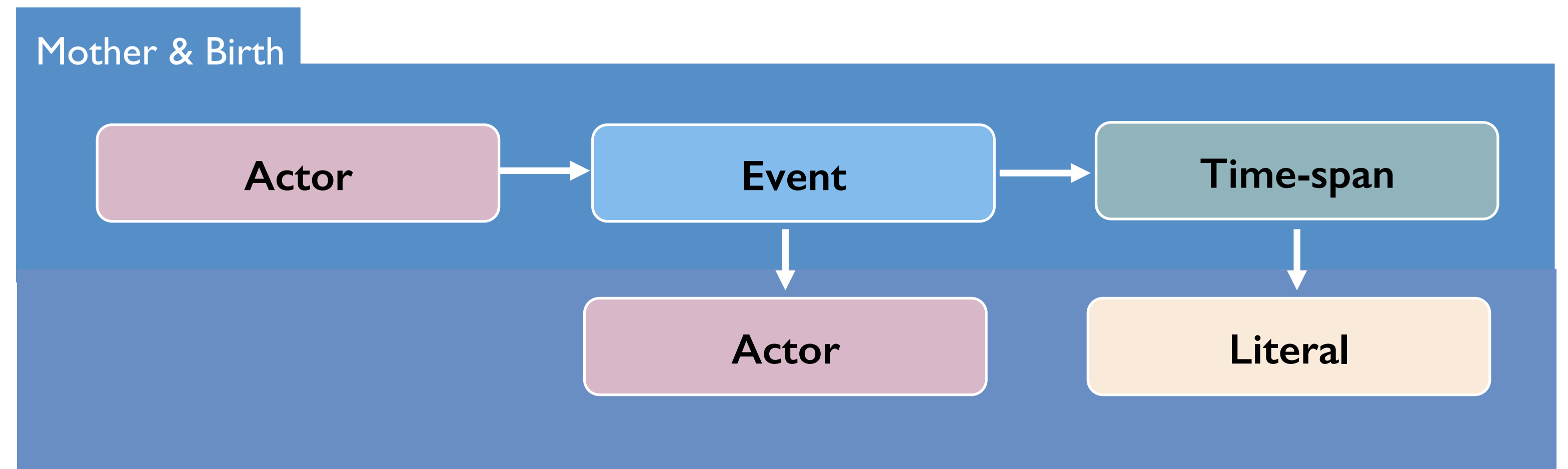
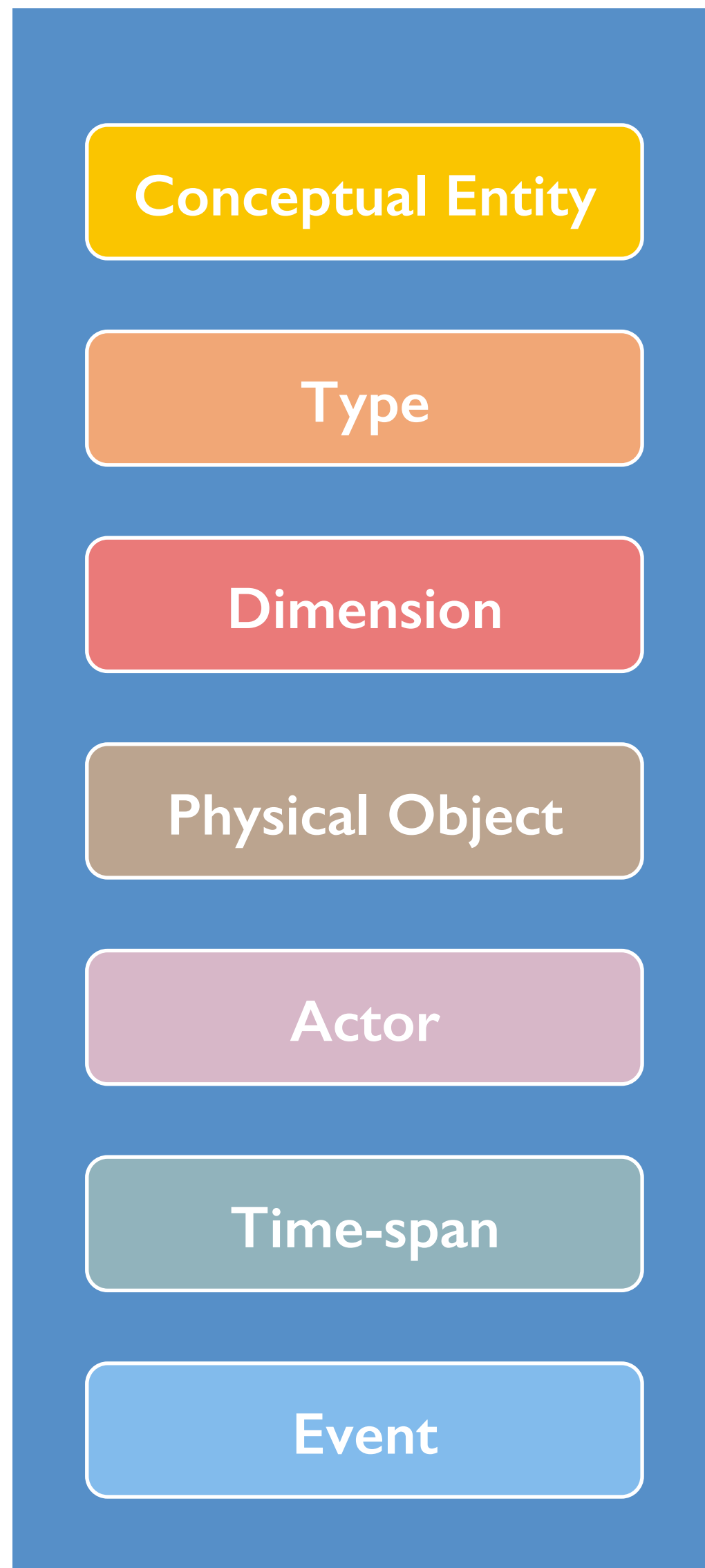
- GND Agrelon
- SIKART
- MARC21
- VIAF
- ULAN
- CDWA
- CCO
- VRA
- Schema

- Identifier Source
- Name
- Part of the name
- Name Language
- Honorific
- Alternate Name
- Alternate Name Type
- Alternate Name Use Period - 1
- Alternate Name Use Period - 2
- Gender
- Birth Place

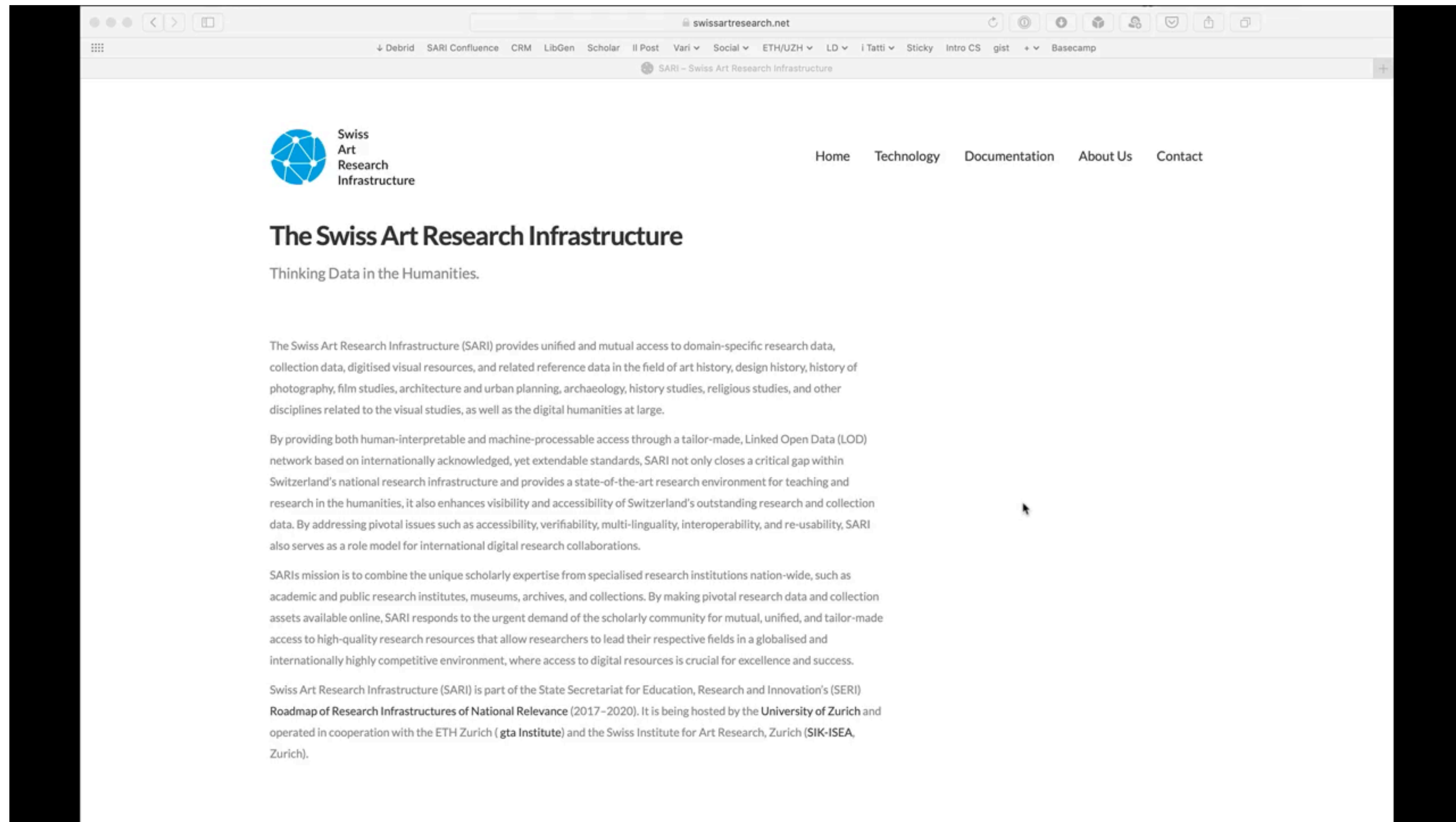
This field is used to indicate additional names under which the person is known. This is linked to the





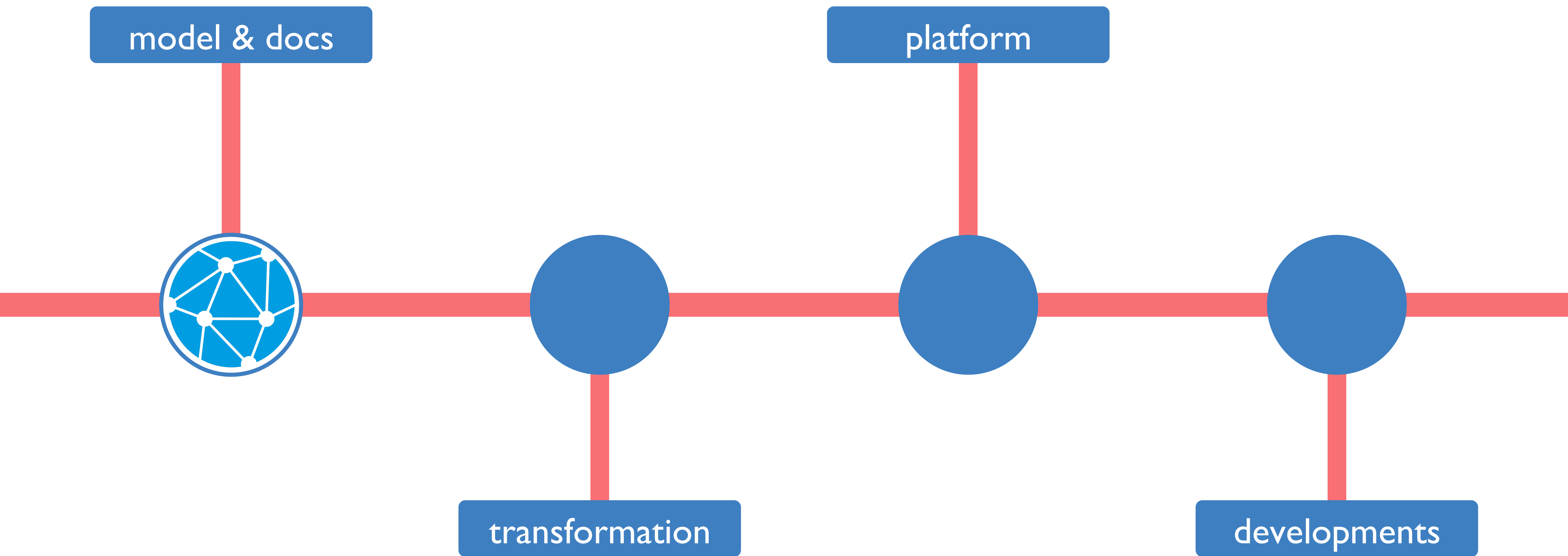


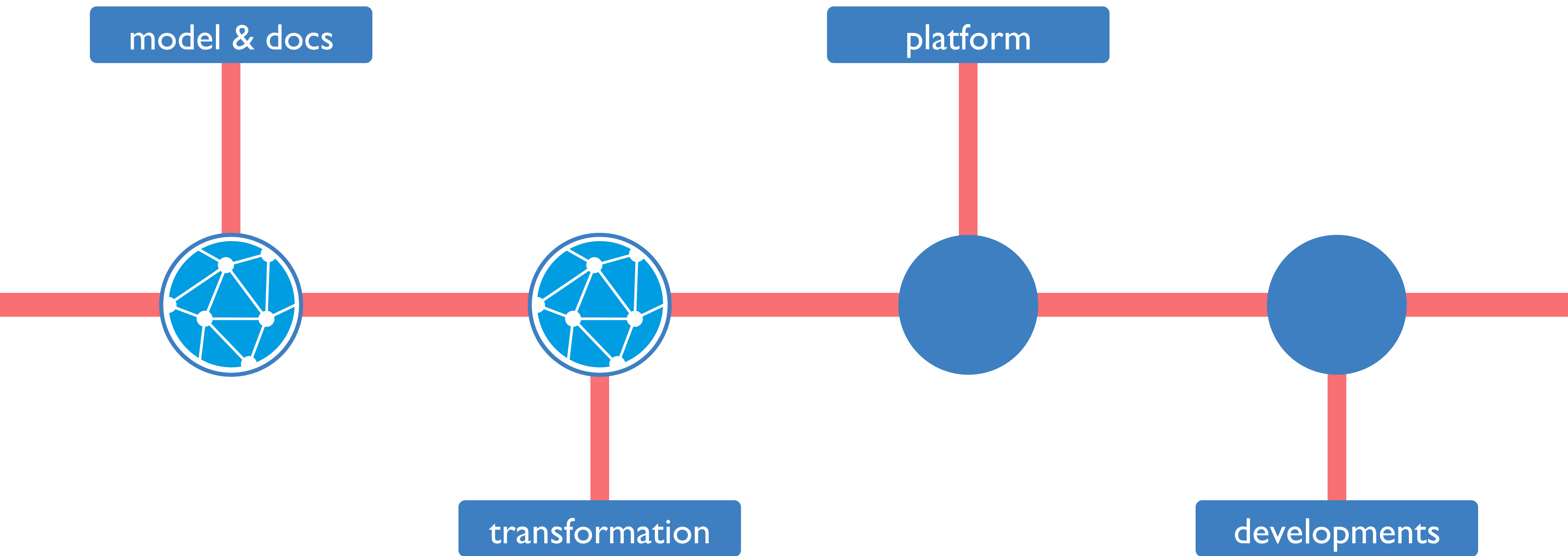




<https://docs.swissartresearch.net>







Data Analysis

Data Curation



*data interconnection with known source*  
*conceptual mapping*





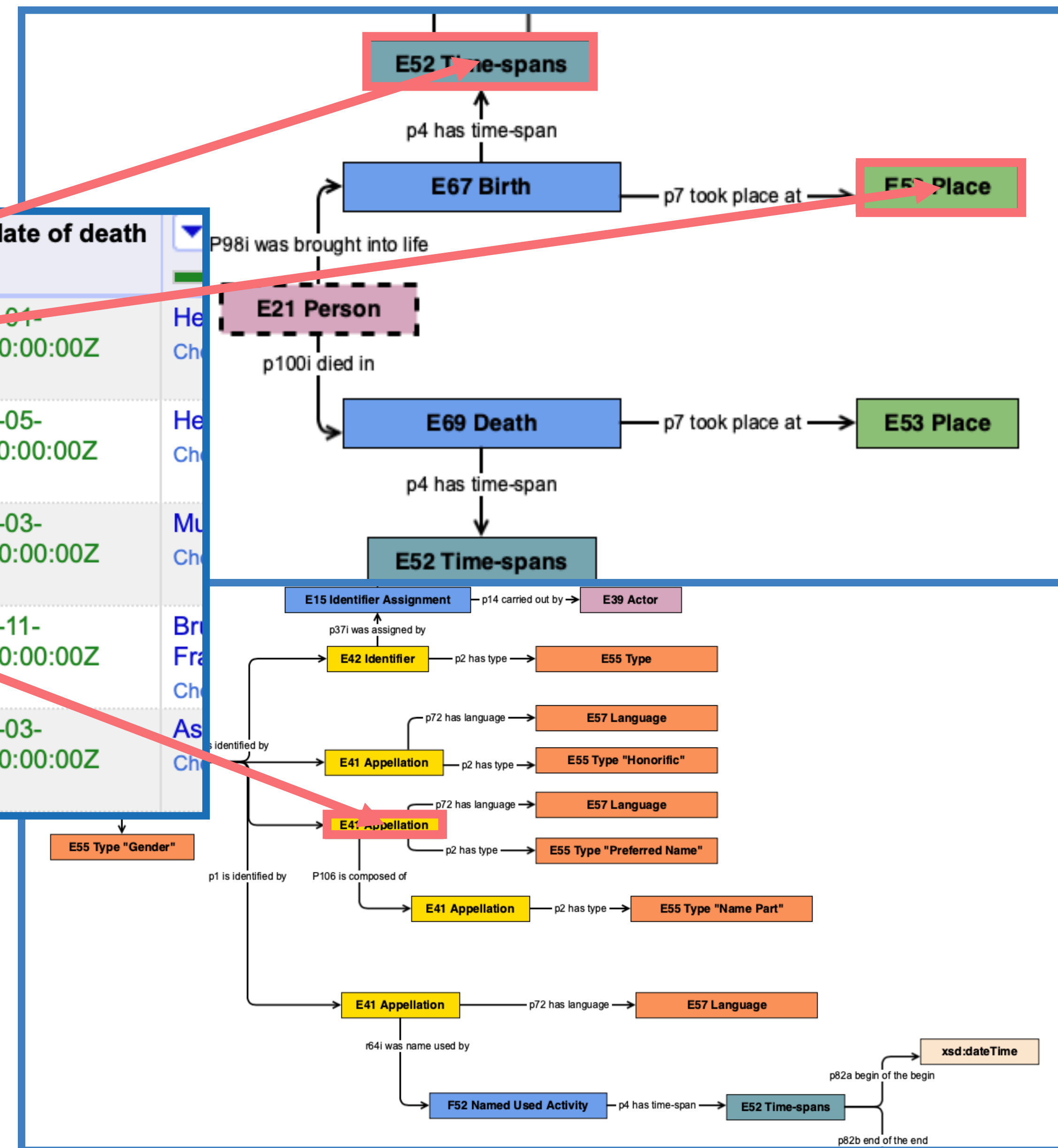
17



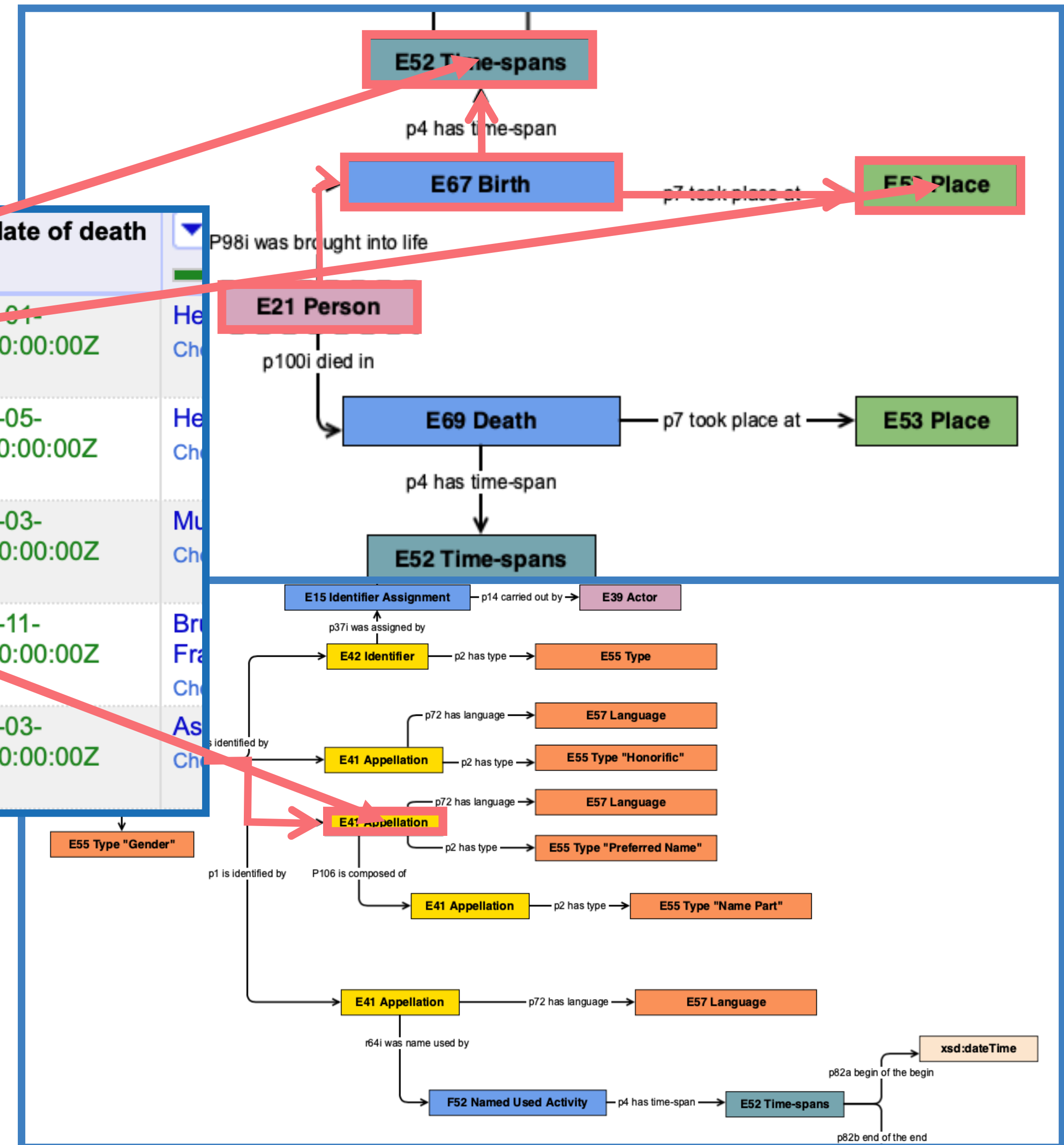


mapping creation




















































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		<div><div></div><div>Aino Aalto</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1894-01-25T00:00:00Z</div></div>	<div><div></div><div>Helsinki</div><div>Choose new match</div></div>	<div><div></div><div>1949-01-13T00:00:00Z</div></div>
		<div><div></div><div>Alvar Aalto</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1898-02-03T00:00:00Z</div></div>	<div><div></div><div>Kuortane</div><div>Choose new match</div></div>	<div><div></div><div>1976-05-11T00:00:00Z</div></div>
		<div><div></div><div>Fiorenzo Abbondio</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1892-06-22T00:00:00Z</div></div>	<div><div></div><div>Ascona</div><div>Choose new match</div></div>	<div><div></div><div>1980-03-13T00:00:00Z</div></div>
		<div><div></div><div>Adolf Abel</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1882-11-27T00:00:00Z</div></div>	<div><div></div><div>Paris</div><div>Choose new match</div></div>	<div><div></div><div>1968-11-03T00:00:00Z</div></div>
		<div><div></div><div>Patrick Abercrombie</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1879-06-06T00:00:00Z</div></div>	<div><div></div><div>Ashton upon Mersey</div><div>Choose new match</div></div>	<div><div></div><div>1957-03-23T00:00:00Z</div></div>



n_o	_cms_system_o	wikidata_id_reco	instance of	date of birth	place of birth	date of death
		<div><div></div><div>Aino Aalto</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1894-01-25T00:00:00Z</div></div>	<div><div></div><div>Helsinki</div><div>Choose new match</div></div>	<div><div></div><div>1949-01-13T00:00:00Z</div></div>
		<div><div></div><div>Alvar Aalto</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1898-02-03T00:00:00Z</div></div>	<div><div></div><div>Kuortane</div><div>Choose new match</div></div>	<div><div></div><div>1976-05-11T00:00:00Z</div></div>
		<div><div></div><div>Fiorenzo Abbondio</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1892-06-22T00:00:00Z</div></div>	<div><div></div><div>Ascona</div><div>Choose new match</div></div>	<div><div></div><div>1980-03-13T00:00:00Z</div></div>
		<div><div></div><div>Adolf Abel</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1882-11-27T00:00:00Z</div></div>	<div><div></div><div>Paris</div><div>Choose new match</div></div>	<div><div></div><div>1968-11-03T00:00:00Z</div></div>
		<div><div></div><div>Patrick Abercrombie</div><div>Choose new match</div></div>	<div><div></div><div>human</div><div>Choose new match</div></div>	<div><div></div><div>1879-06-06T00:00:00Z</div></div>	<div><div></div><div>Ashton upon Mersey</div><div>Choose new match</div></div>	<div><div></div><div>1957-03-23T00:00:00Z</div></div>





#	SOURCE		TARGET	
1	D	 ../SharedShelf	 E22_Man-Made_Object	
1.1	P	 ../Display	 P1_is_identified_by	
			 E41_Appellation	
	R	 ../Display	 rdf-schema#label	
			 rdf-schema#Literal	
1.2	P	 ../term	 P2_has_type	
			 E55_Type  [worktype]	
	R	 ../term	 rdf-schema#label	
			 rdf-schema#Literal	
1.3	P	 ../id	 P2_has_type	
			 E55_Type  [worktype]	
	R	 ../id	 P1_is_identified_by	
			 E42_Identifier	
			 rdf-schema#label	
			 rdf-schema#Literal	
1.4	P	 ../uri	 P2_has_type	
			 E55_Type  [worktype]	
	R	 ../uri	 P1_is_identified_by	
				
1.5	P	 ../vocab	 P2_has_type	
			 E55_Type  [worktype]	
	R	 ../vocab	 P71i_is_listed_in	
			 E32_Authority_Document	
			 P1_is_identified_by	
			 E41_Appellation	
			 rdf-schema#label	
			 rdf-schema#Literal	
1.6	P	 ../id	 P65_shows_visual_item	
			 E36_Visual_Item  [visual]	
			 P129i_is_subject_of	
			 E73_Information_Object  [info1]	
			 P1_is_identified_by	
			 E42_Identifier	

1. Type 1:  $\text{Type 1} = \text{Type 2} + \text{Type 3} + \text{Type 4}$



3m

Mapping : fototeca

Info

Matching Table

Generators

Analysis

Transformation

Configuration

About

TOP

BOTTOM

VIEW MODE

XML

(ALL) SOURCES

(ALL) TARGETS

(ALL) IF RULES

(ALL) COMMENTS

(ALL) MAPS

Add generators using "Add instance generator" and "Add label generator" links or click on a generator box to edit it

#	SOURCE	TARGET	IF RULE	COMMENTS
1	D <div>../SharedShelf</div>	<div>E22_Man-Made_Object</div> <div><div>Instance Generator Name</div><div>UUID</div></div> <div>Add label generator</div>		
1.1	P <div>../Display</div>	<div>P1_is_identified_by</div> <div>E41_Appellation</div> <div><div>Instance Generator Name</div><div>appellationURI</div></div> <div><div>Argument</div><div><div>Name</div><div>Type</div></div><div><div>id</div><div>xpath</div></div><div><div>Value</div><div>../id/text()</div></div></div> <div>Add label generator</div>		
		<div>rdf-schema#label</div> <div>rdf-schema#Literal</div> <div><div>Instance Generator Name</div><div>Literal</div></div> <div><div>Argument</div><div><div>Name</div><div>Type</div></div><div><div>text</div><div>xpath</div></div><div><div>Value</div><div>text()</div></div></div> <div>Add label generator</div>		
	R <div>../Display</div>			
		<div>P2_has_type</div> <div>E55_Type <div>[worktype]</div></div> <div><div>Instance Generator Name</div><div>TypeURI</div></div>		

*running transformation*

**transformation**



```

Nicola — -bash — 150x32
[surfer-172-30-2-194-hotspot:~ Nicola$ java -jar /Applications/X3ML\ Engine/x3ml-engine-1.8.4-SNAPSHOT-exejar.jar -p
usage: x3ml -xml <input records> -x3ml <mapping file> hello
Options
  -a,--assocTable <arg>      export the contents of the association table in XML format
  -f,--format <arg>          Output format. Options:
                              -format application/n-triples
                              -format text/turtle
                              -format application/rdf+xml (default)
  -i,--input <arg>           XML input records.
                              Option A-single file: -input input.xml
                              Option B-multiple files (comma-sep): -input input1.xml,input2.xml,input3.xml
                              Option C-folder: -input #_folder_path
                              Option D-URL: -input @input_url
                              Option E-multiple URLs: -input @input_url1,input_url2,input_url3
                              Option F-stdin: -input @
  -m,--mergeAssocWithRDF     merge the contents of the association table with the RDF output
  -o,--output <arg>          The RDF output file name: -output output.rdf
  -p,--policy <arg>          The value policy file: -policy policy.xml
  -t,--terms <arg>           the SKOS taxonomy
                              Option A-single file: -terms skosTerms.nt
                              Option B-URL: -terms @skos_terms_url
  -u,--uuidTestSize <arg>    Create a test UUID generator of the given size.
                              Default is UUID from operating system
  -x,--x3ml <arg>            X3ML mapping definition.
                              Option A-single file: -x3ml mapping.x3ml
                              Option B-multiple files (comma-sep): -x3ml mappings1.x3ml,mappings2.x3ml
                              Option C-URL: -x3ml @mappings_url
                              Option D-stdin: -x3ml @

Missing argument for option: p
surfer-172-30-2-194-hotspot:~ Nicola$

```

R2RML: mapping standard from relational database to RDF

- R2RML Parser
- Ontop (virtual graph)

RML: RDF Mapping Language. Extension of R2RML, currently in draft

Used by:

- CARML
- XRM

RDF Views (Openlink)

D2RQ (virtual graph)

TARQL (from CSV)

```

</source_node>/objects/photographs</source_node>

<entity>
  <type>crm:E22_Man-Made_Object</type>
  <instance_generator name="objectURI">
    <arg name="id" type="xpath">_sys
  </instance_generator>
  <relationship>crm:P2_has_type</re
</entity>
  <type>crm:E55_Type</type>
  <instance_generator name="URI"
    <arg name="text" type="co
    http://vocab.getty.edu/aa
  </instance_generator>
</entity>
</additional>
<relationship>crm:P2_has_type</re
</entity>
</additional>
<relationship>crm:P2_has_type</re
</entity>

```

Alternate Name ?

Alternate Name ?

Frey, Adolf

Alternate Name Type ?

Preferred 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 ?

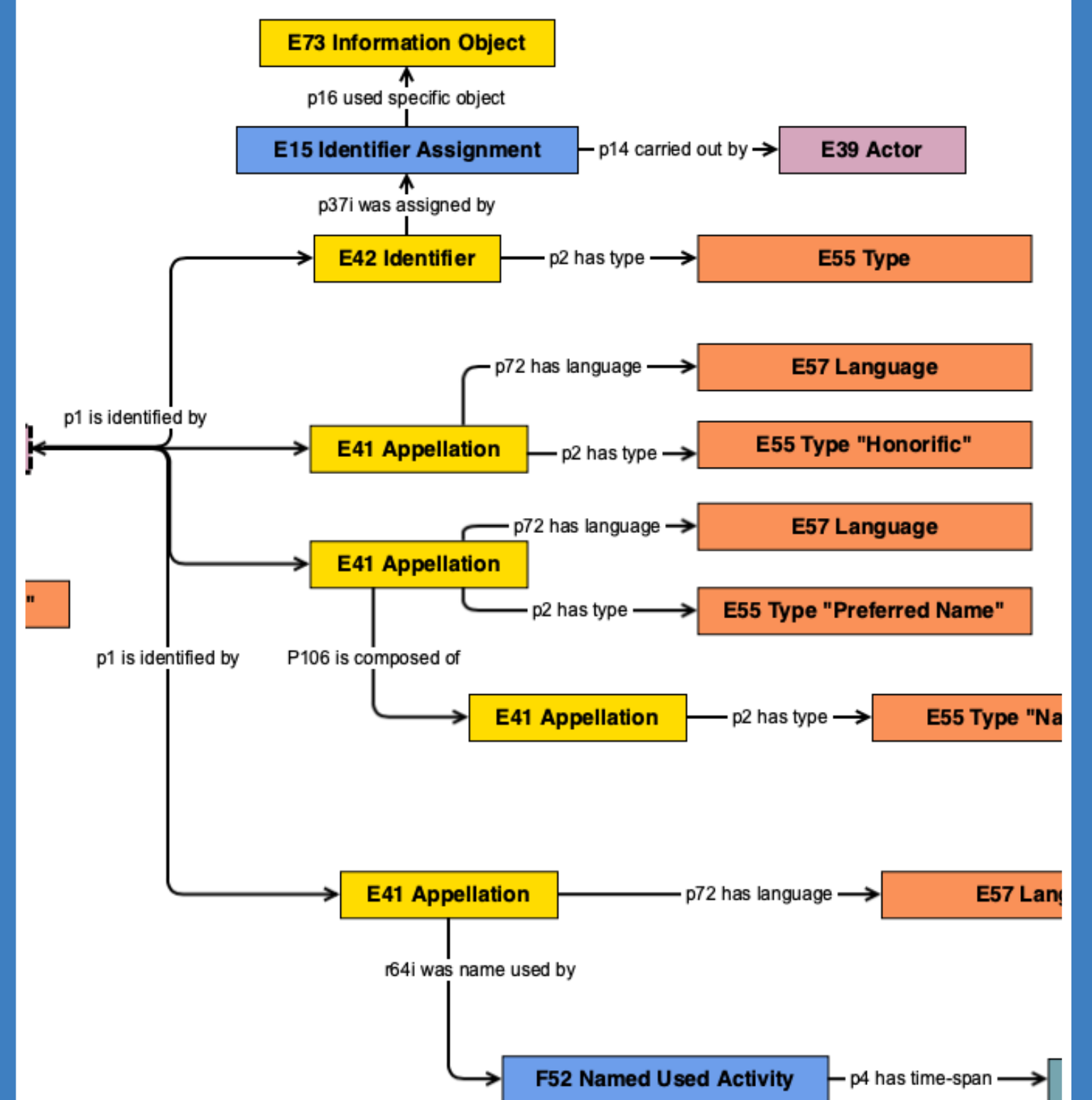
Select person gender here...

Birth ?

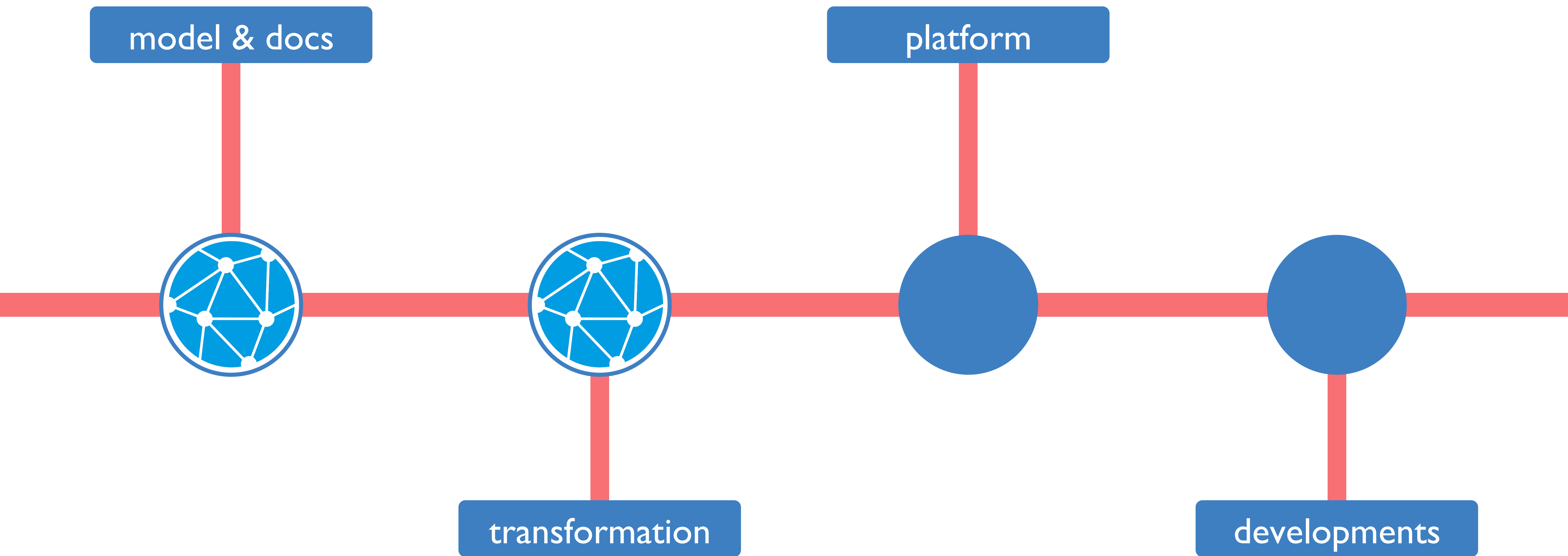
Birth Place

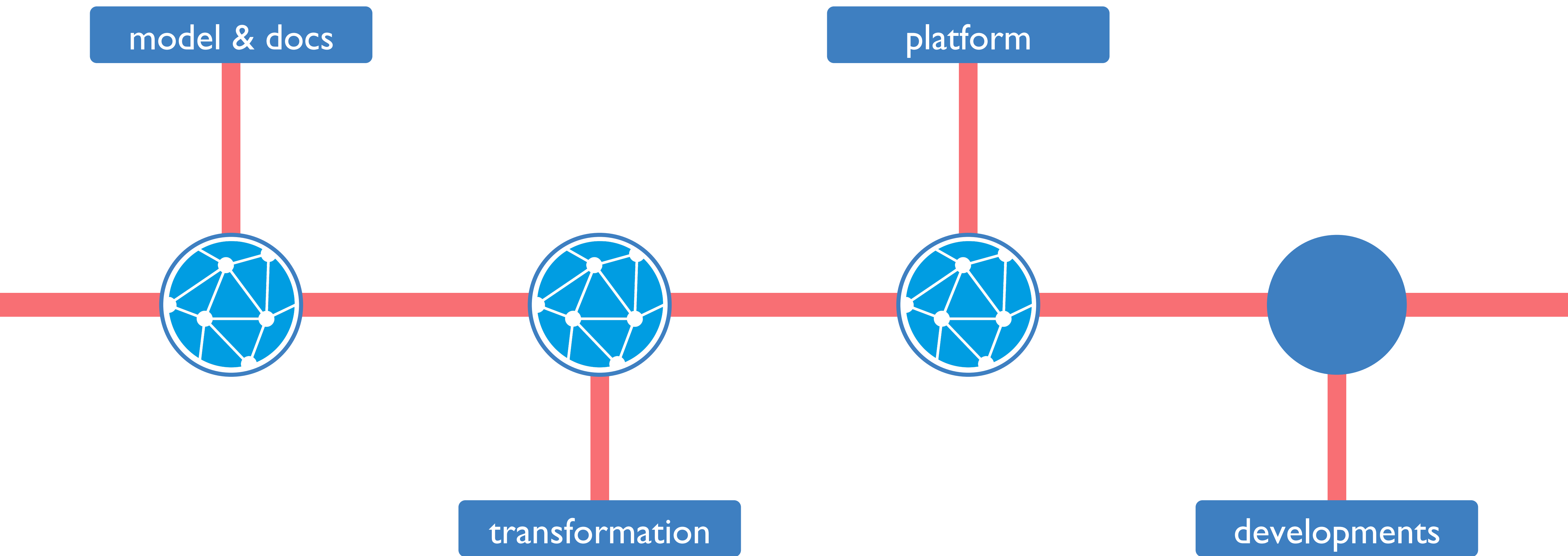
Search and select birth place here...

Person Birth Date (earliest)

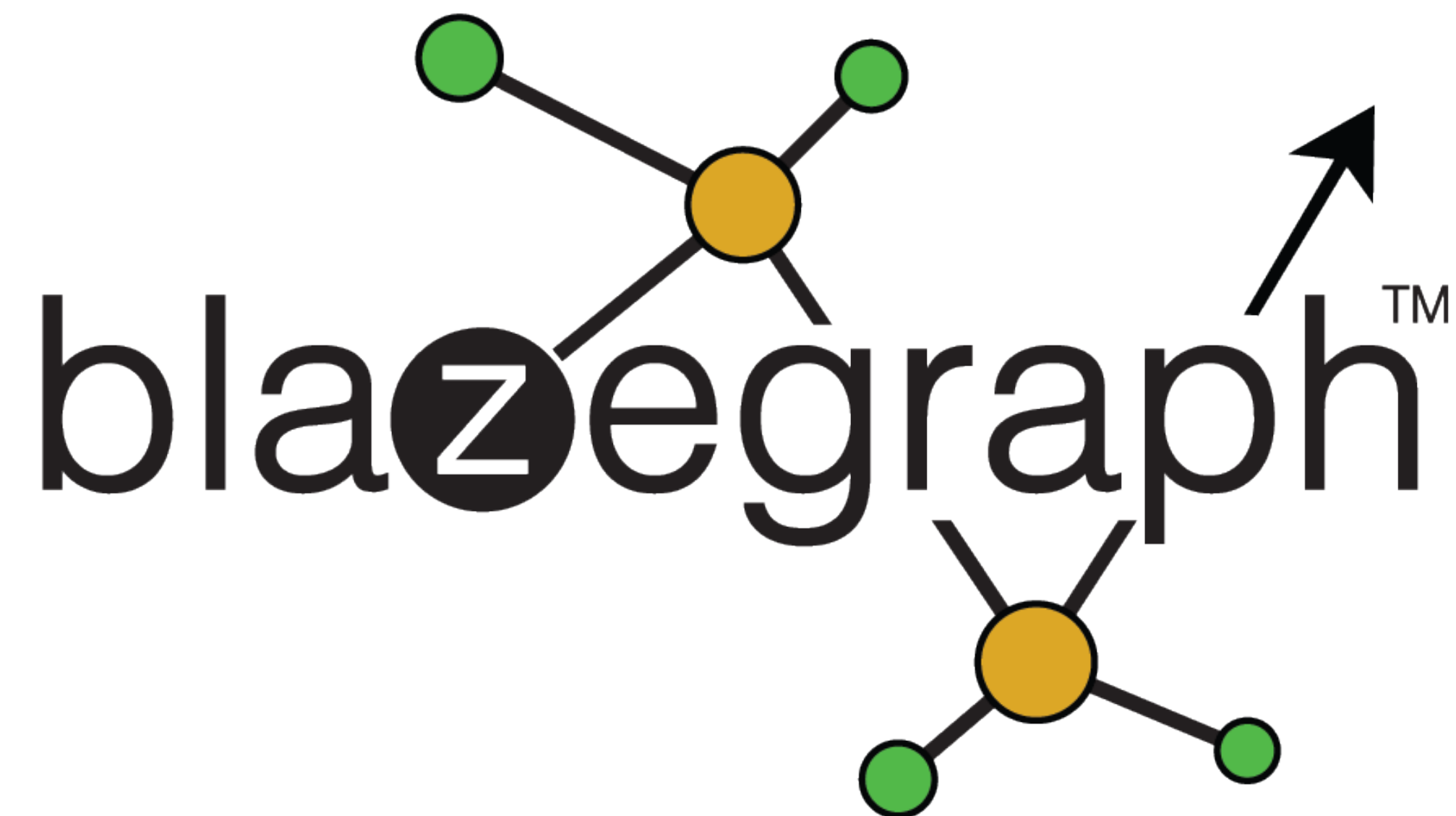


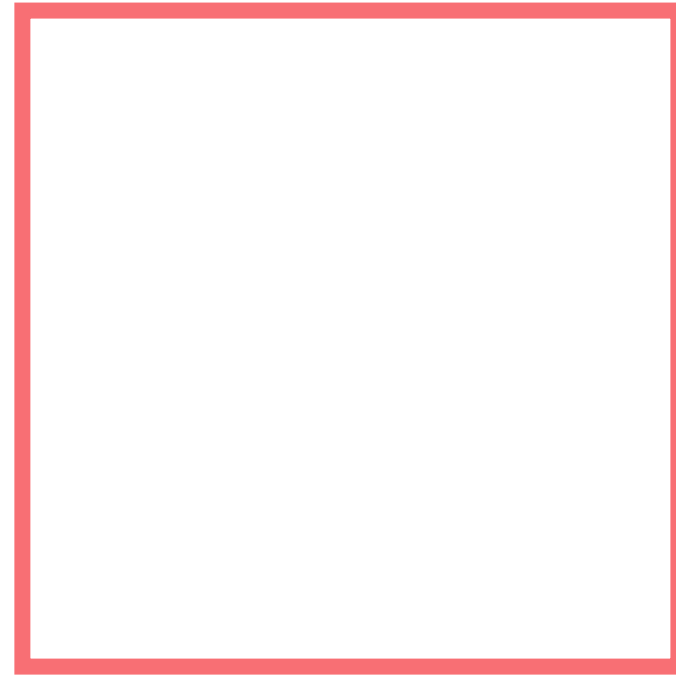












*Appellation*

---

*Date of Birth*

---

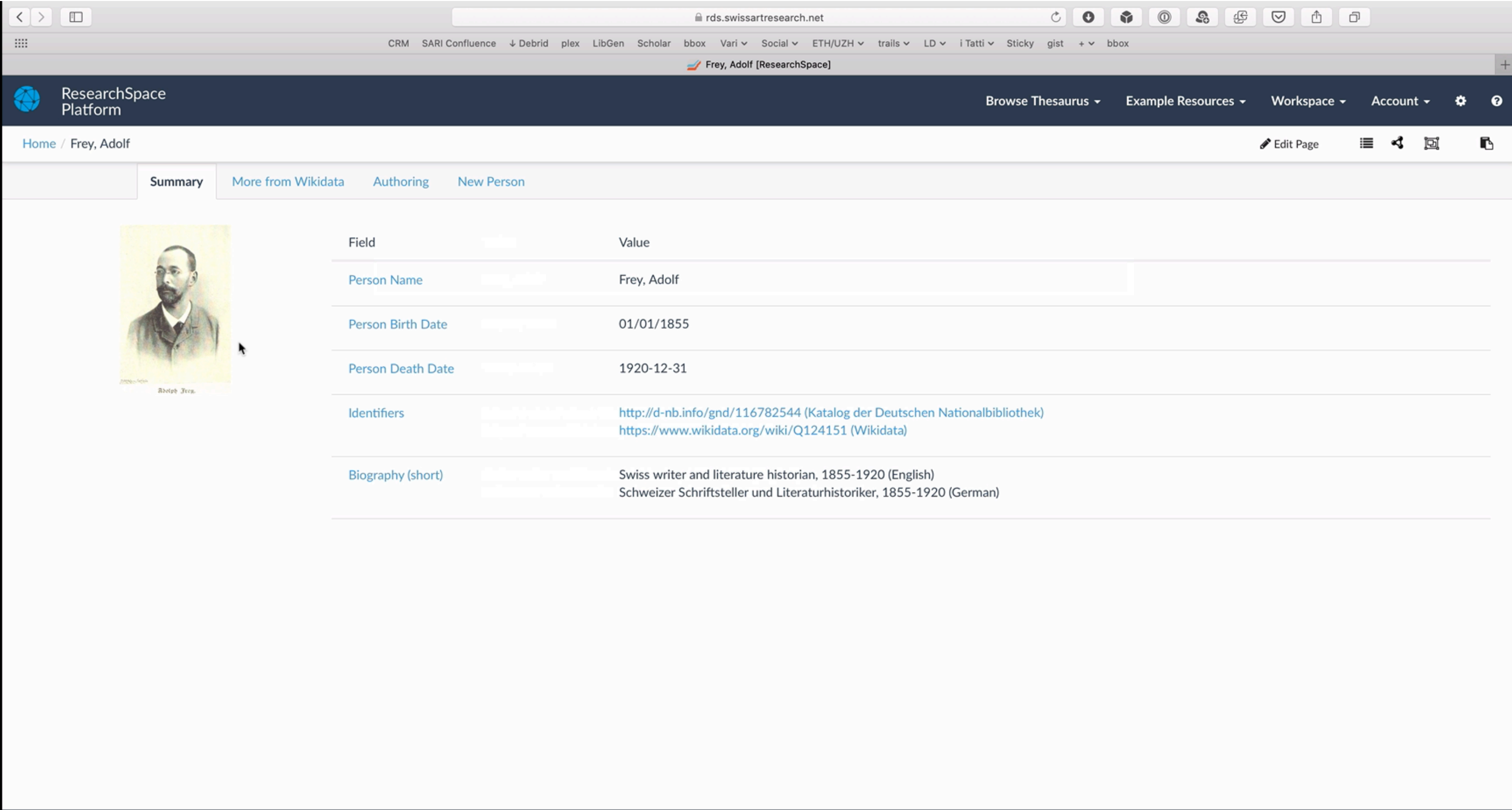
*Place of Birth*

---

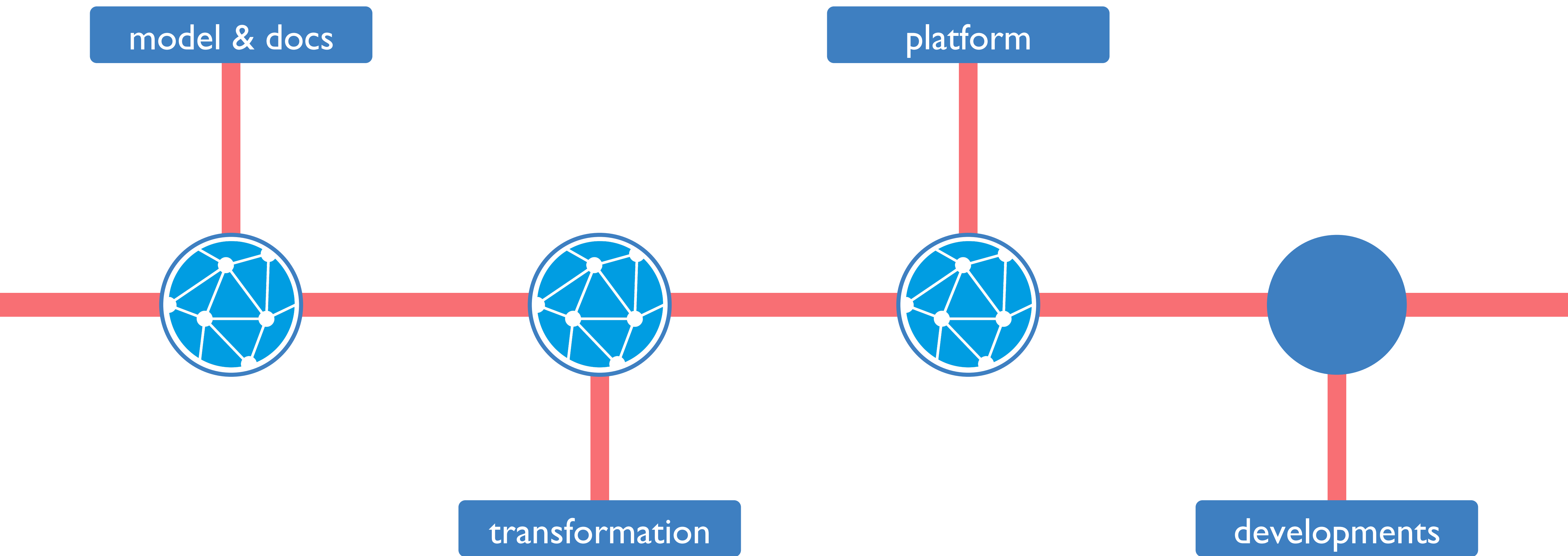
*Biography*

---

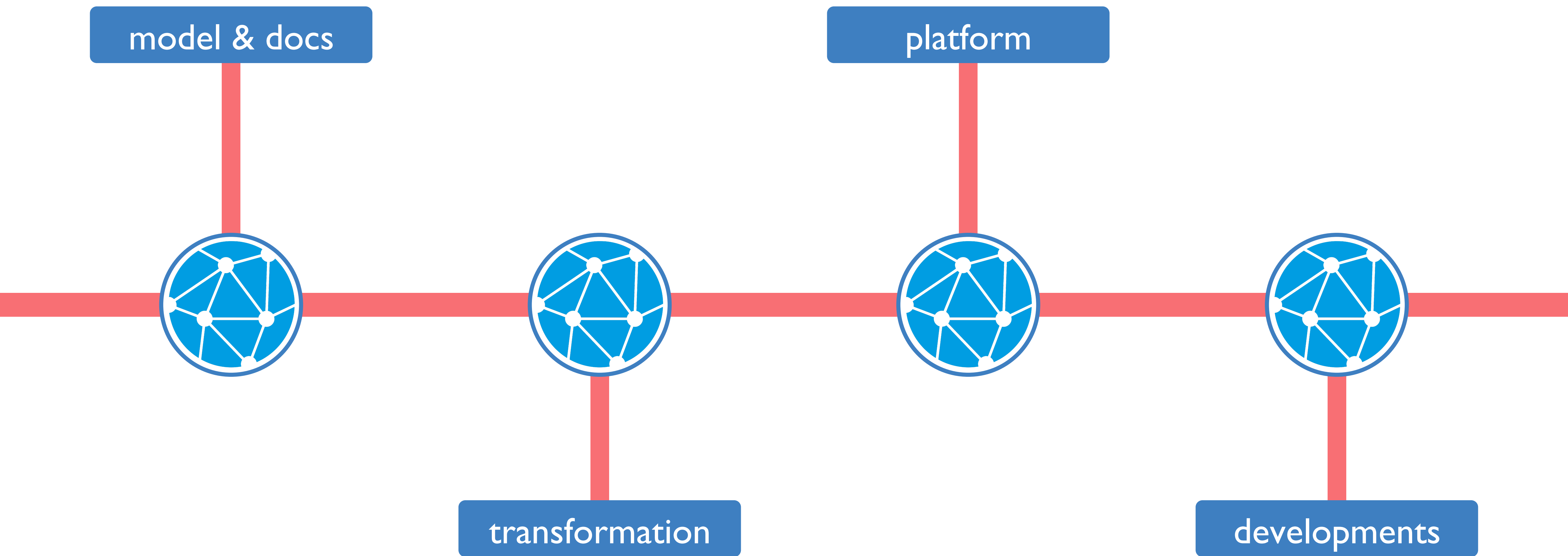


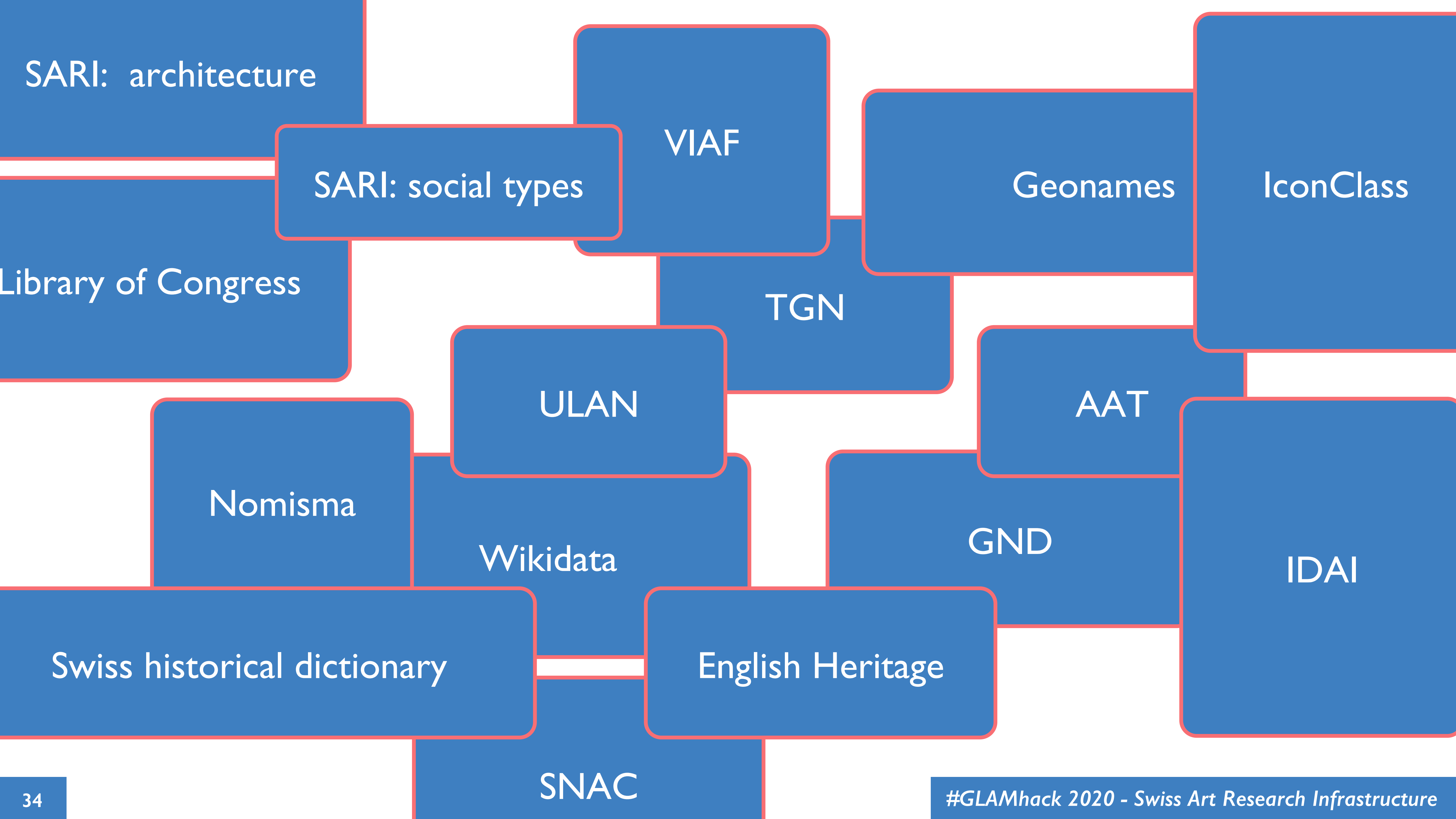


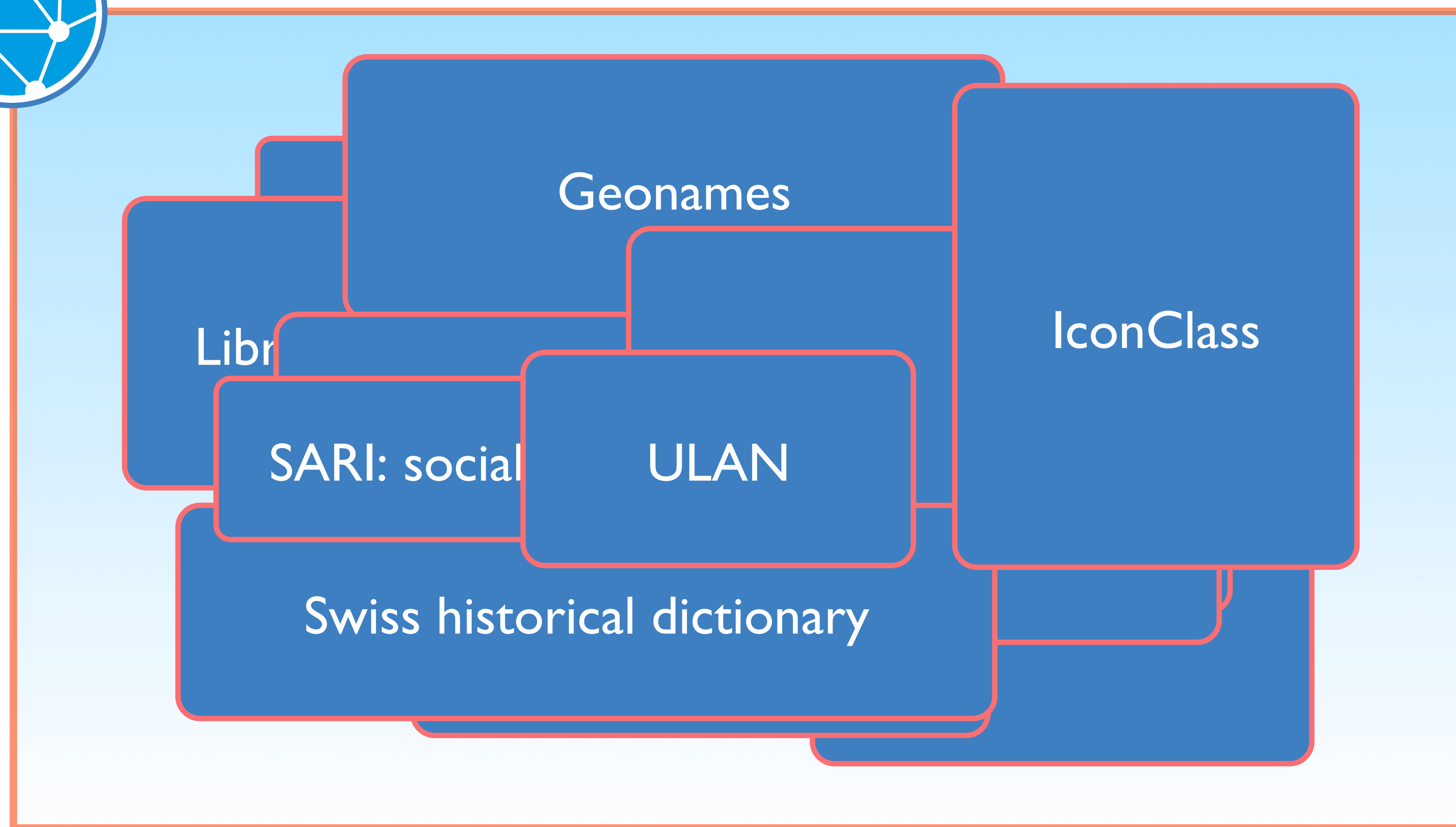
<https://rds.swissartresearch.net>



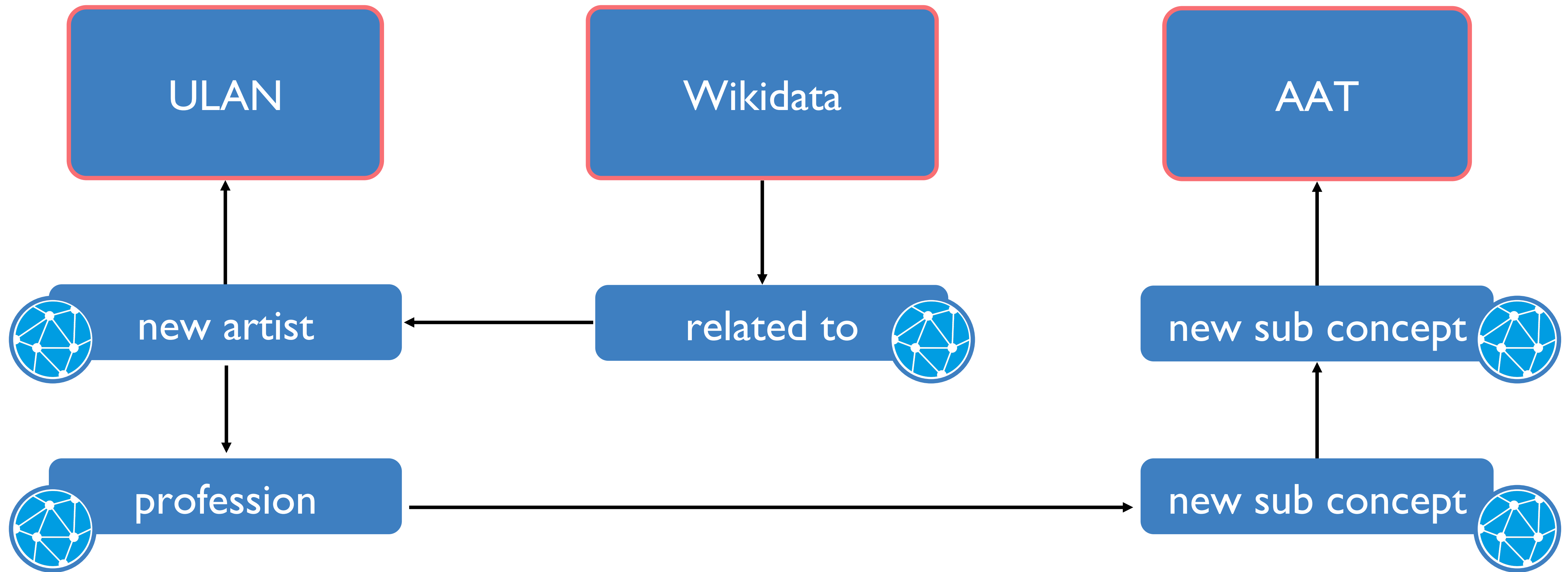


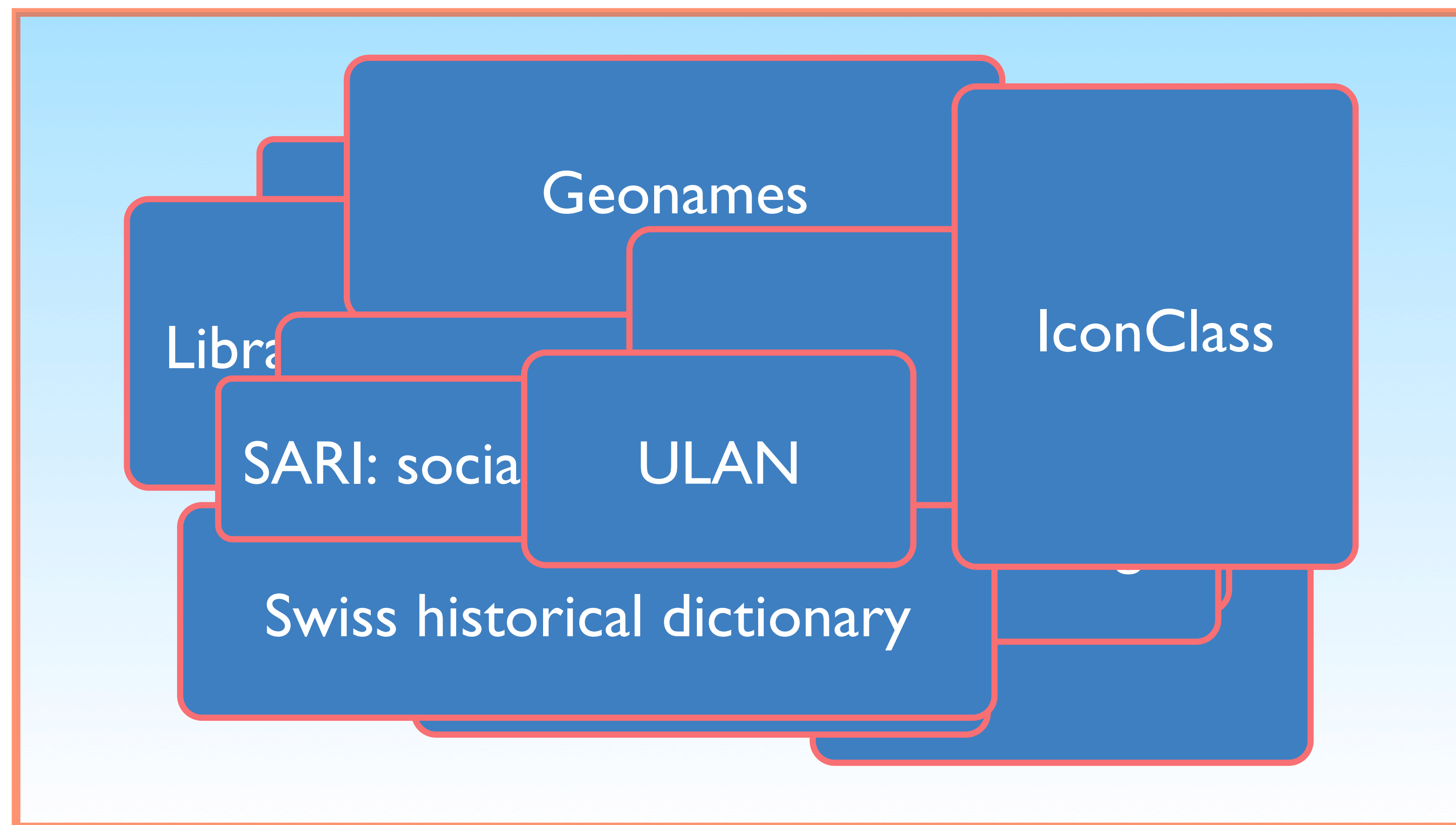


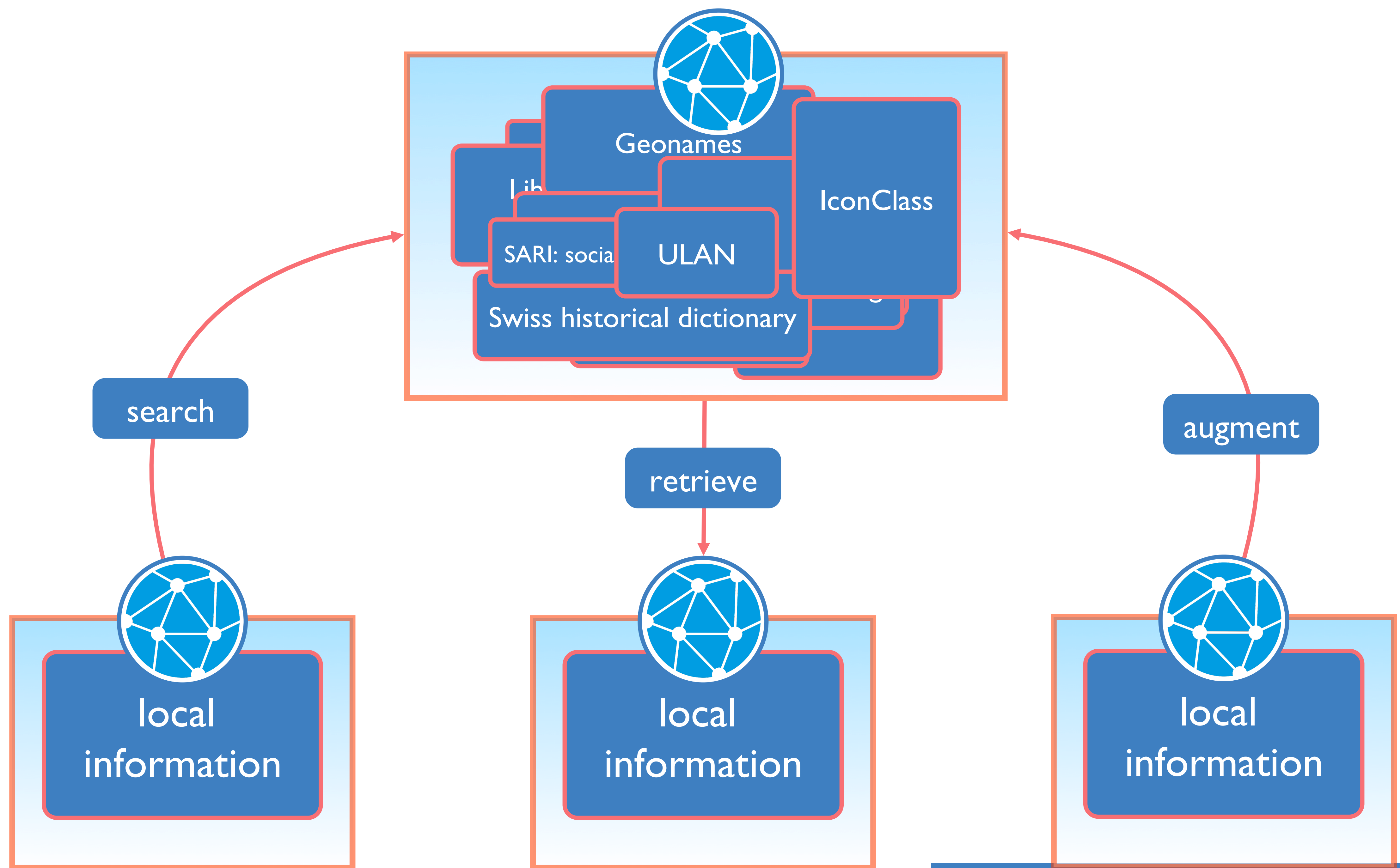




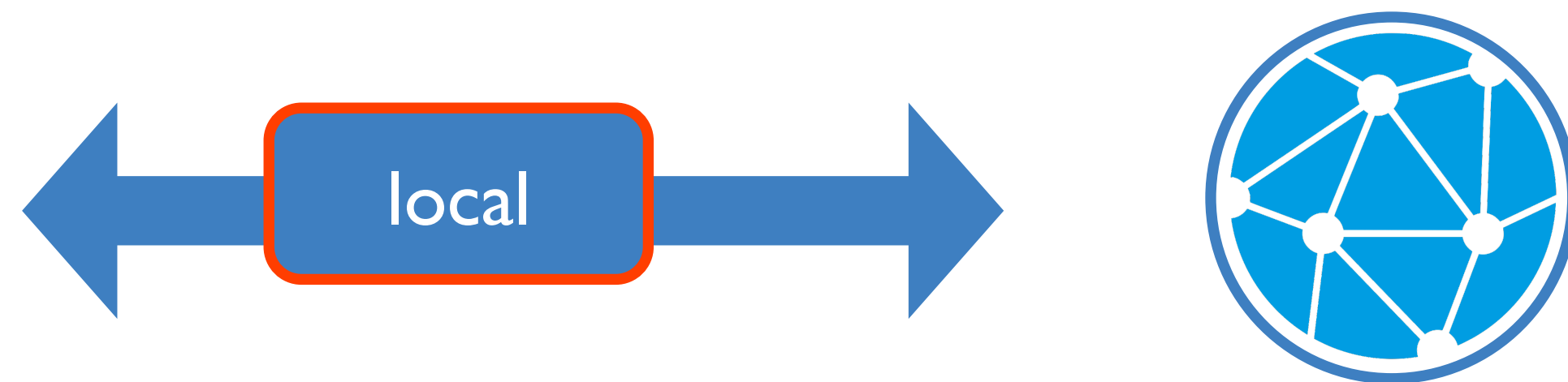
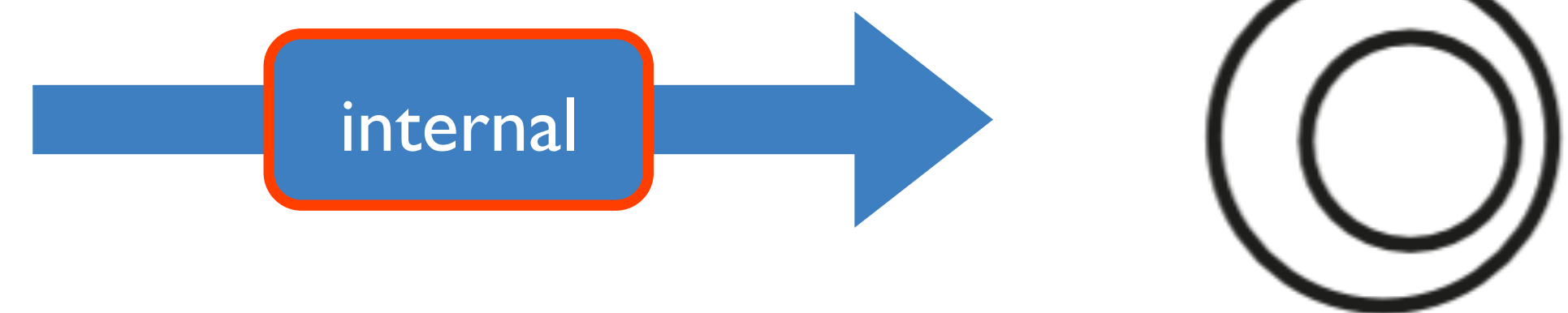
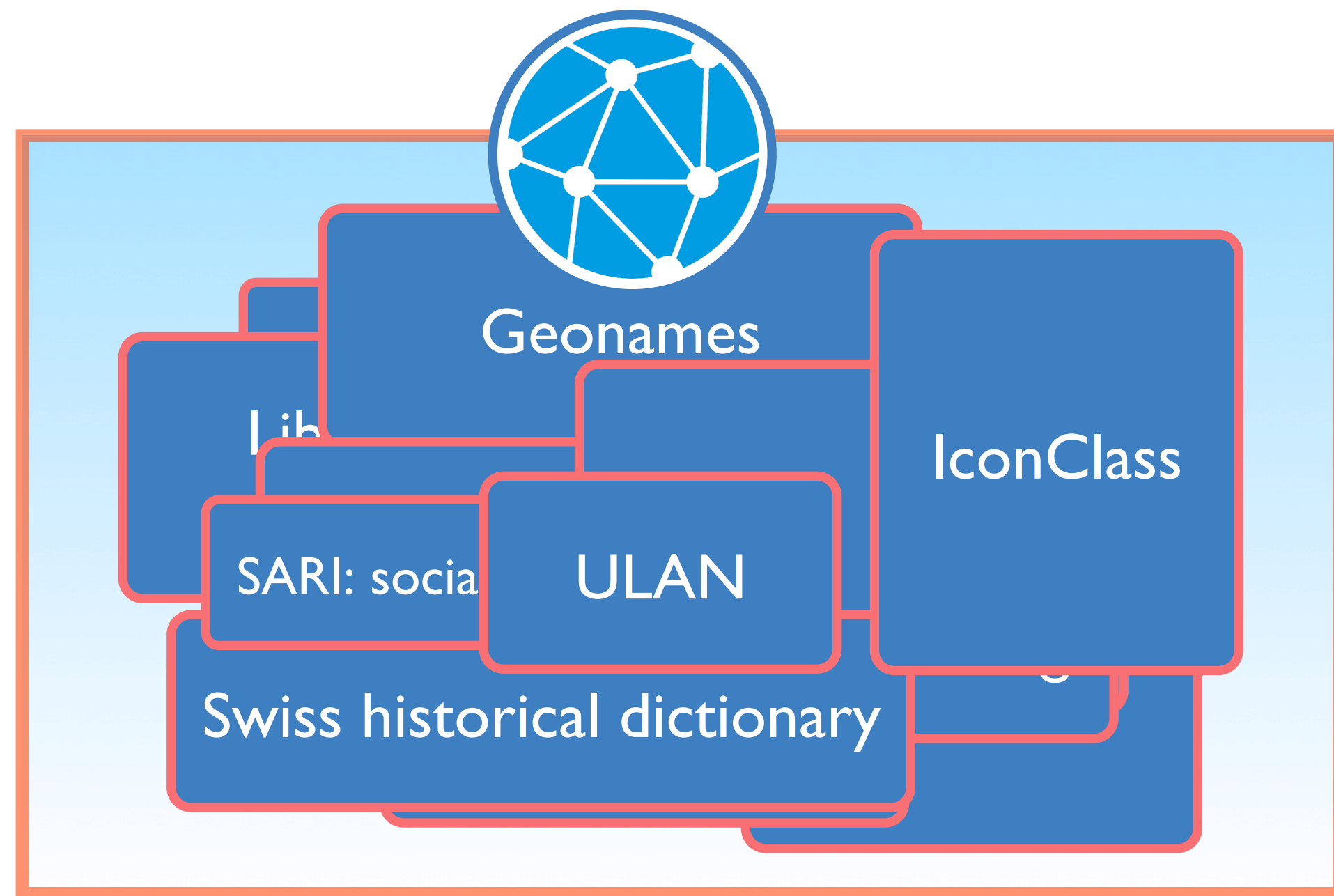












THANK YOU

