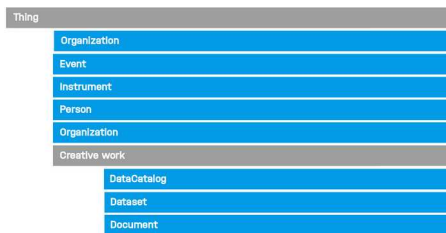


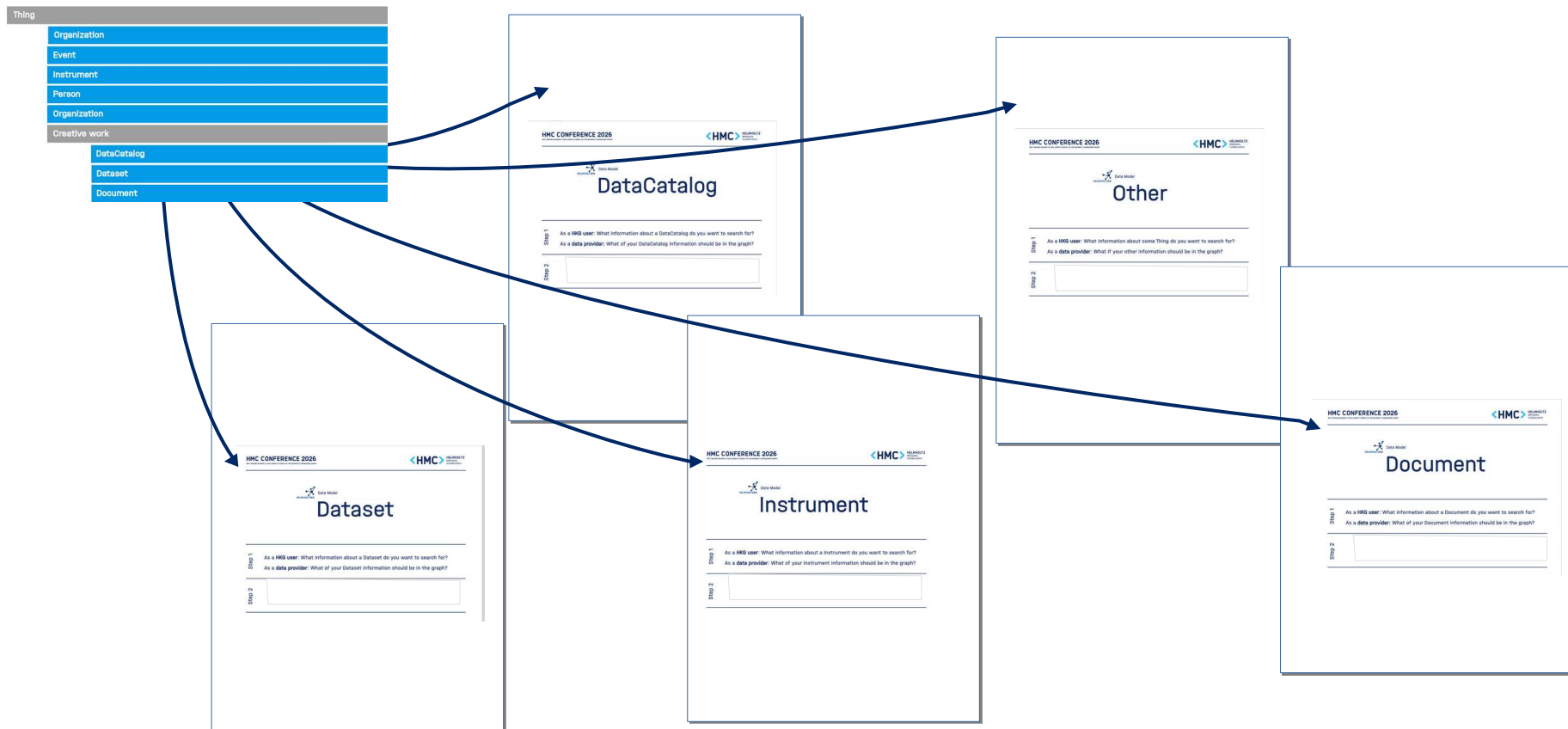
Activity 1 – HKG Data model extension

10 mins	Introduction What is the Helmholtz KG (for) Status Quo
10 mins	System overview How does the HKG work behind the scenes What and where is the “data model”
35 mins	Activity 1 Data model extension
15 mins	Activity 2 Data Provider onboarding process
10 mins	Summary & Wrap up What to do next How we will go on?

Activity 1: Extension of the Helmholtz KG Data model



Activity 1: Extension of the Helmholtz KG Data model



HMC CONFERENCE 2026

WS7: MAKING HELMHOLTZ DATA ASSETS VISIBLE VIA THE HELMHOLTZ KNOWLEDGE GRAPH

<HMC> HELMHOLTZ
Metadata
Collaboration



DataCatalog

Step 1

As a **HKG user**: What information about a DataCatalog do you want to search for?

As a **data provider**: What of your DataCatalog information should be in the graph?

Step 2

Activity 1: Ex

How to retrieve data
to import into my
python script?

2026
KNOWLEDGE GRAPH

<HMC> HELMHOLTZ
Metadata
Collaboration

HELMHOLTZKG Data Model

DataCatalog

Step 1

As a **HKG user**: What information about a DataCatalog do you want to search for?

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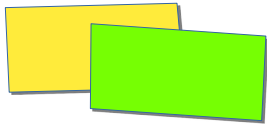
Step 2

Activity 1: Extension of the Helmholtz KG Data model

Step 1

Duration: 12 mins

Post It's:



ToDo: As a **HKG user**: What information about a XYZ do you want to search for?
As a data providers: What of your XYZ-information should be in the graph?

Tips: Write in **natural language**
Focuss on **INTENTION** for graph use

Activity 1: Ex

How to retrieve data
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HELMHOLTZKG Data Model

DataCatalog

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HELMHOLTZKG Data Model

DataCatalog

Step 1

As a **HKG user**: What information about a DataCatalog do you want to search for?

As a **data provider**: What of your DataCatalog information should be in the graph?

Step 2

Add required details to the HKG data model!

Endpoint address

Data semantics

How to retrieve data
to import into my
python script?

Authentication methods

DataCatalog

Step 1

As a **HKG user**: What information about a DataCatalog do you want to search for?

As a **data provider**: What of your DataCatalog information should be in the graph?

Step 2

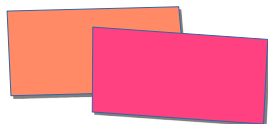
Add required details to the HKG data model!

Activity 1: Extension of the Helmholtz KG Data model

Step 2

Duration: 12 mins

Post It's:



ToDo: Add required details to the HKG data model!

Tips: Focus on **UNDERLYING INFORMATION**
you may suggest a new „*key*“ for the schema, can add example „*value*“
you may result in *annotation property, property or new class* in the DM
you may suggest a *context or source ontology* if known