

SYNC UP IS A VISUALISED DATABASE based on a critical inquiry of how data is shared and interacted with in the city of Amberg

FRAMING THE PROBLEM

‘A PUZZLE GAME’







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The image displays a collection of 24 cards from a critical modelling deck, organized into four columns and six rows. Each card features a front and back image. The cards represent various actors and concepts related to flooding and emergency management, such as 'Mapping - Hazard and Inundation', 'Hochschule Amberg', 'Maximilian Schmidt', 'Civil Engineer', 'State of Bavaria', 'Civil Participation Office', 'City Council', 'River Water', 'Office of Social Affairs', 'Infrastructure Objects', 'City Archive', 'Flooding History', 'Civil Engineering Office', 'Budget + Tax Office', 'SentinelHUB', 'Bayern Atlas', 'Bayernwerke', and 'TUM'. The cards are set against a dark background.



- {id:35, name:"Mapping - Hazard and Inundation", group:"Headlines", runtime:60, size: 40, keywords:"Mapping - Hazard and Inundation, Vils, Evacuation, Citizens, Municipality, Evacuation", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW35.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"},
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Age: 35 years old
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- {id:42, name:"Education Progression", group:"Headlines", runtime:60, size: 60, keywords:"Education Progression, Education, Protocol, Shelter, Citizens, School, Report, Plan, Evacuation, Change", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW42.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"},
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- {id:36, name:"Occupation: Civil Engineer", group:"Headlines", runtime:60, size: 60, keywords:"Architecture Competition on Flood Old City, River, Vils, Water, Propositions, Entries", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW36.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}
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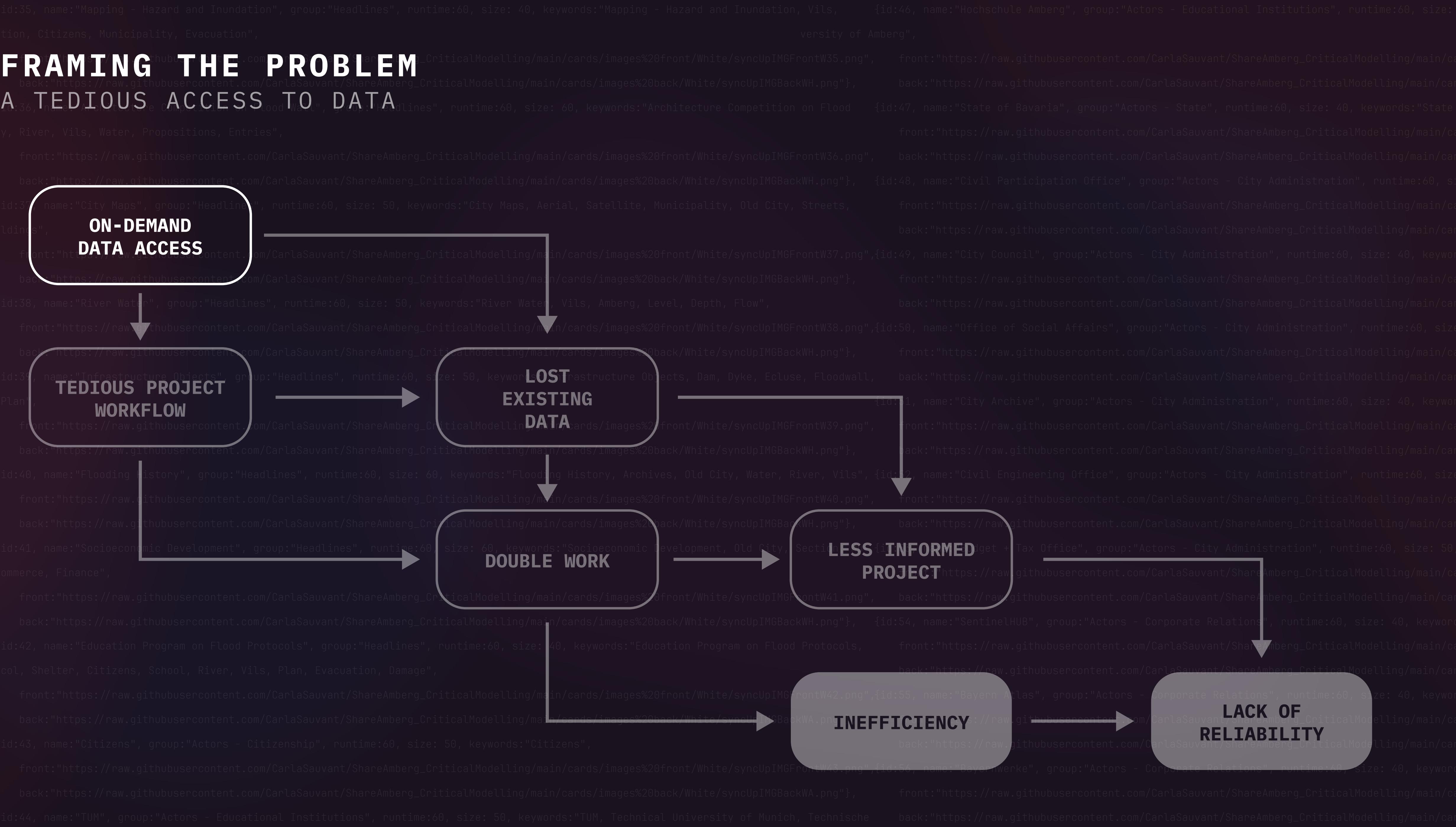


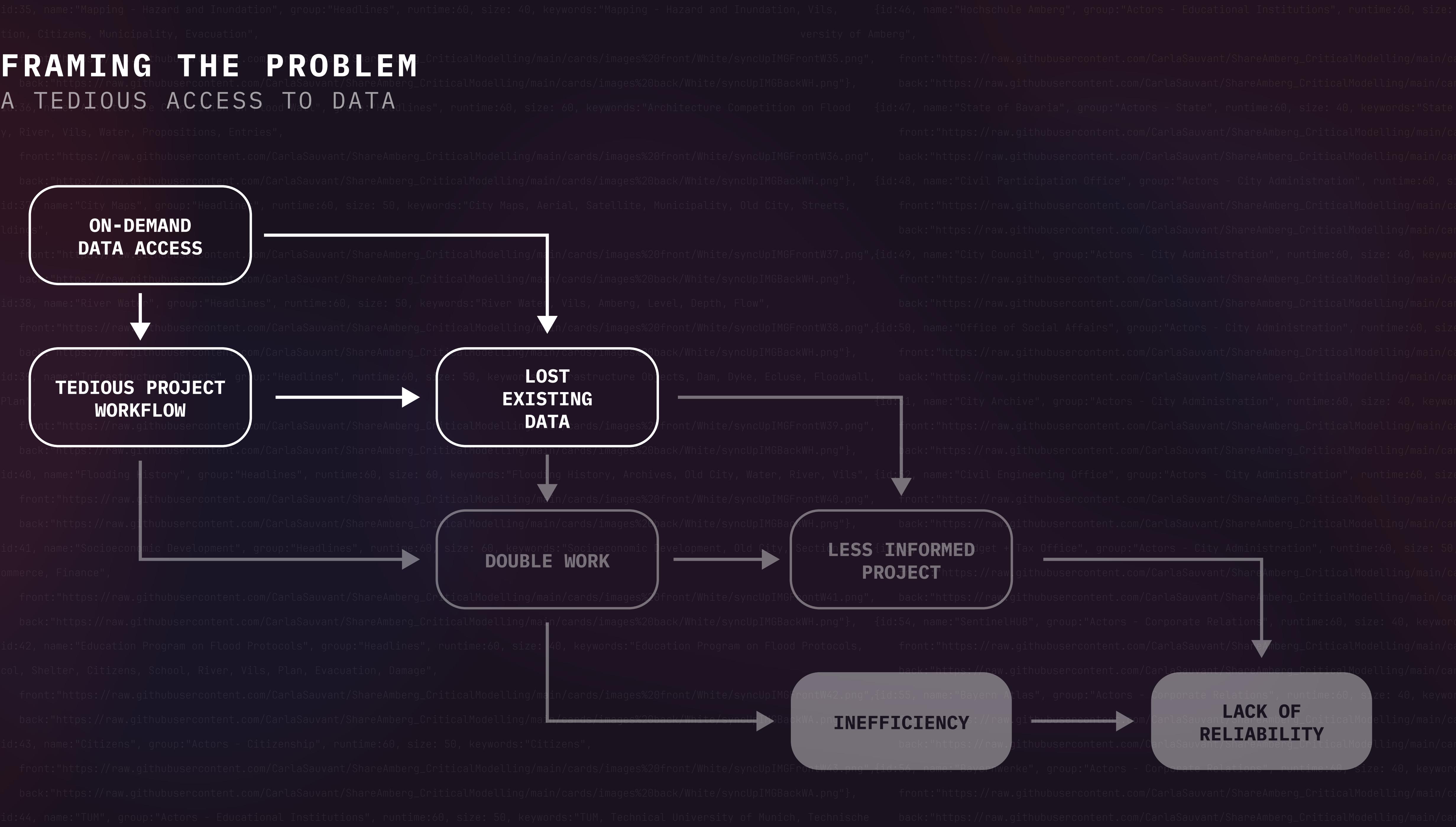


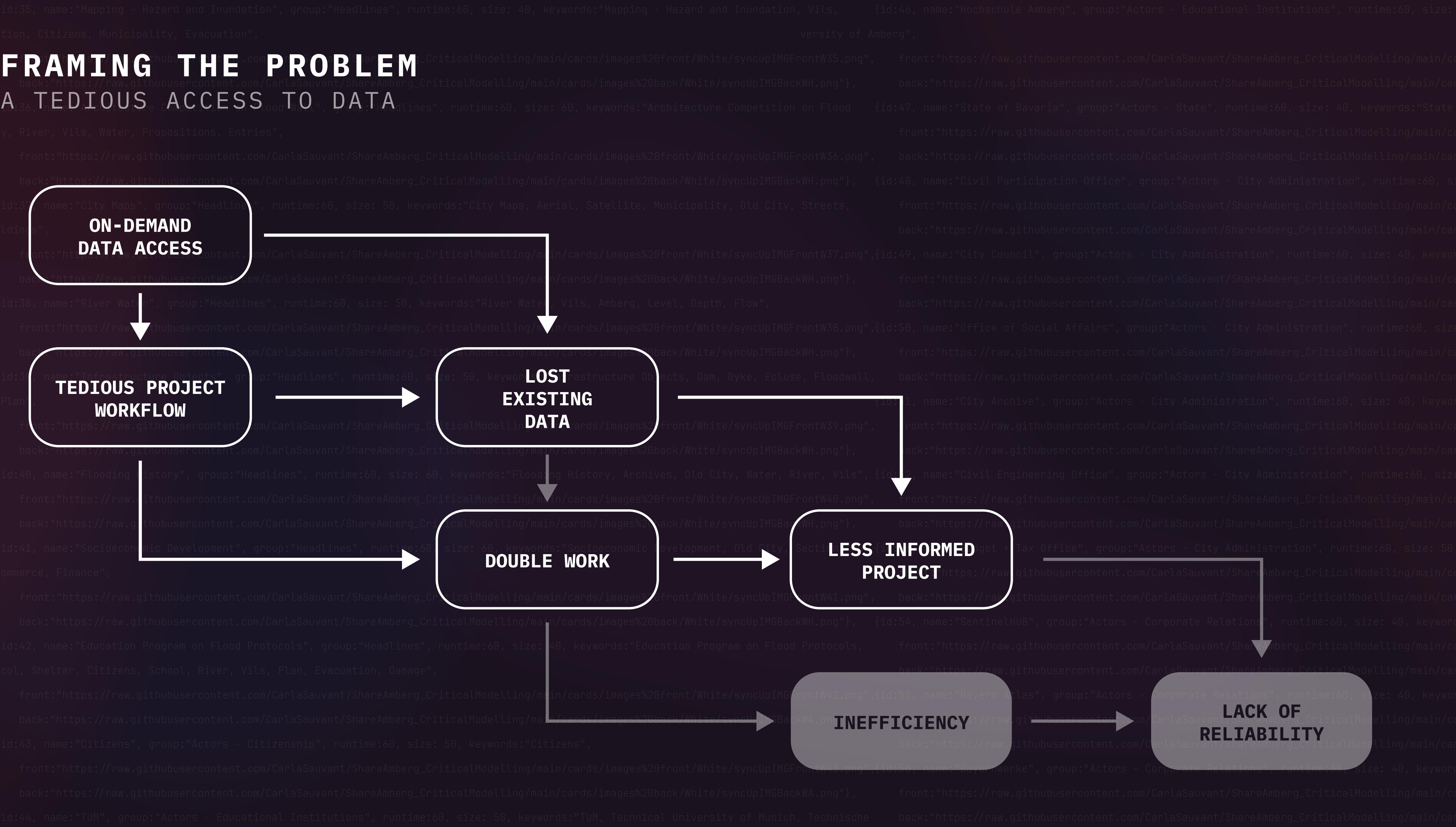


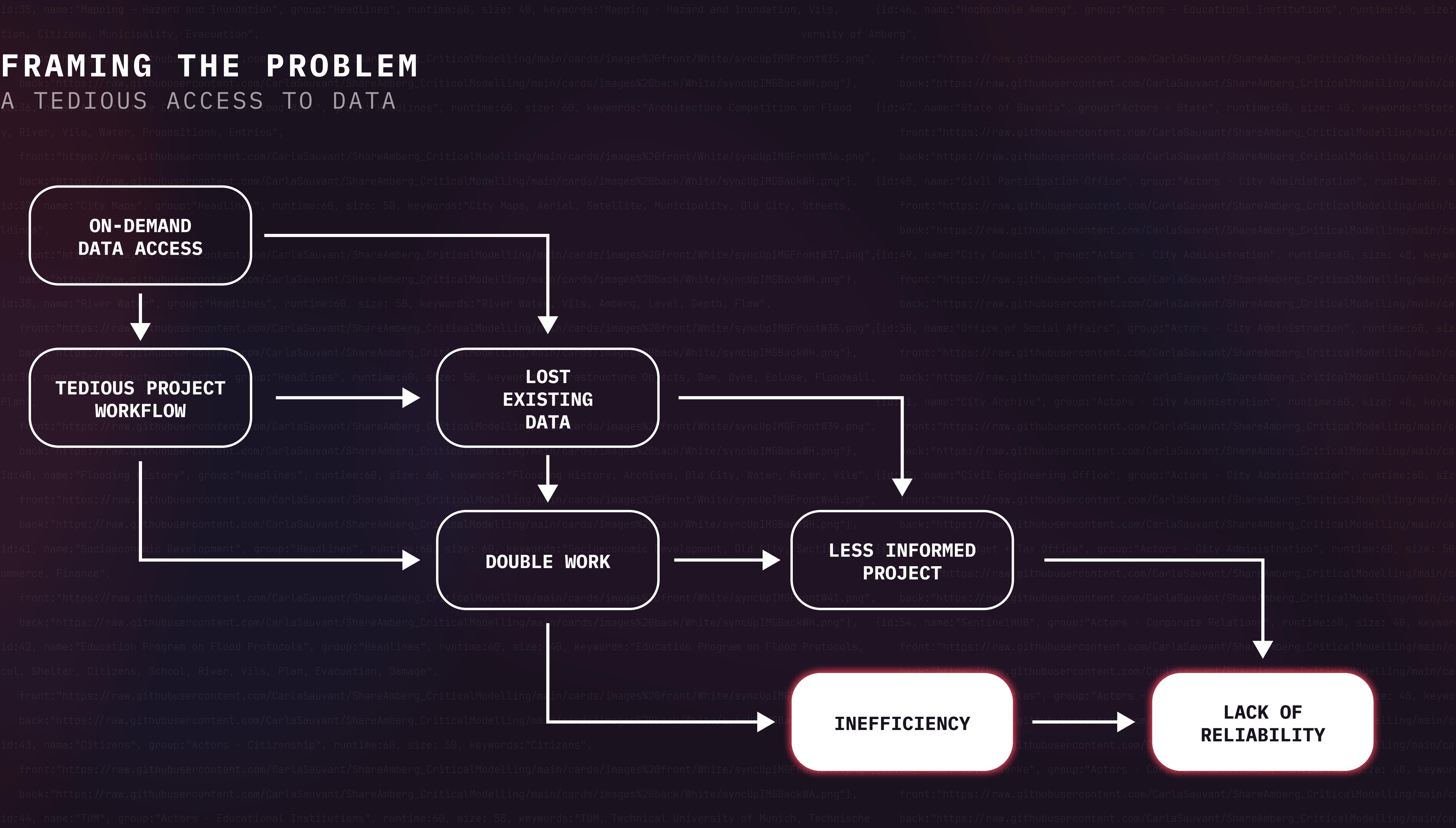




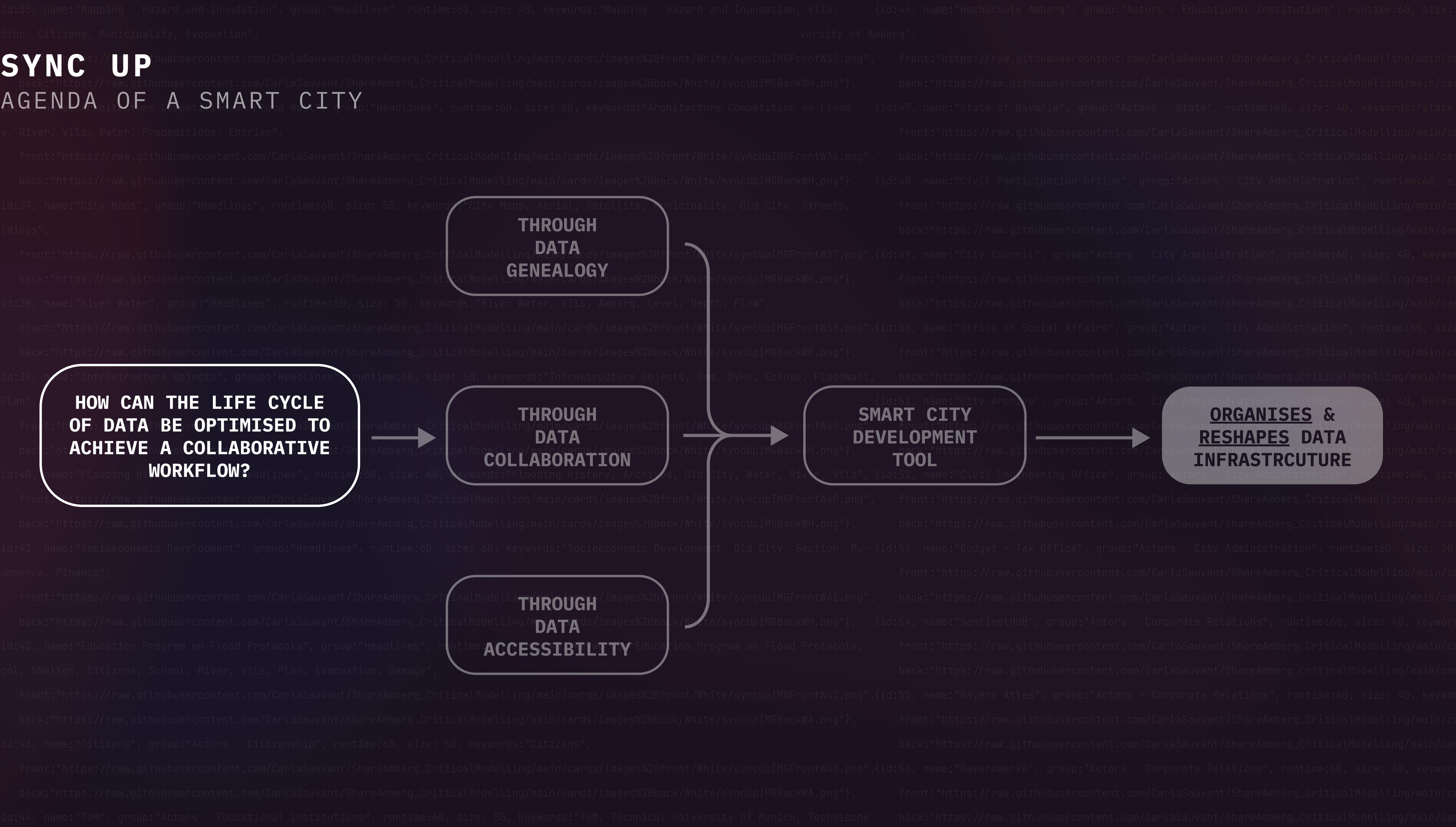












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SYNC UP AGENDA OF A SMART CITY

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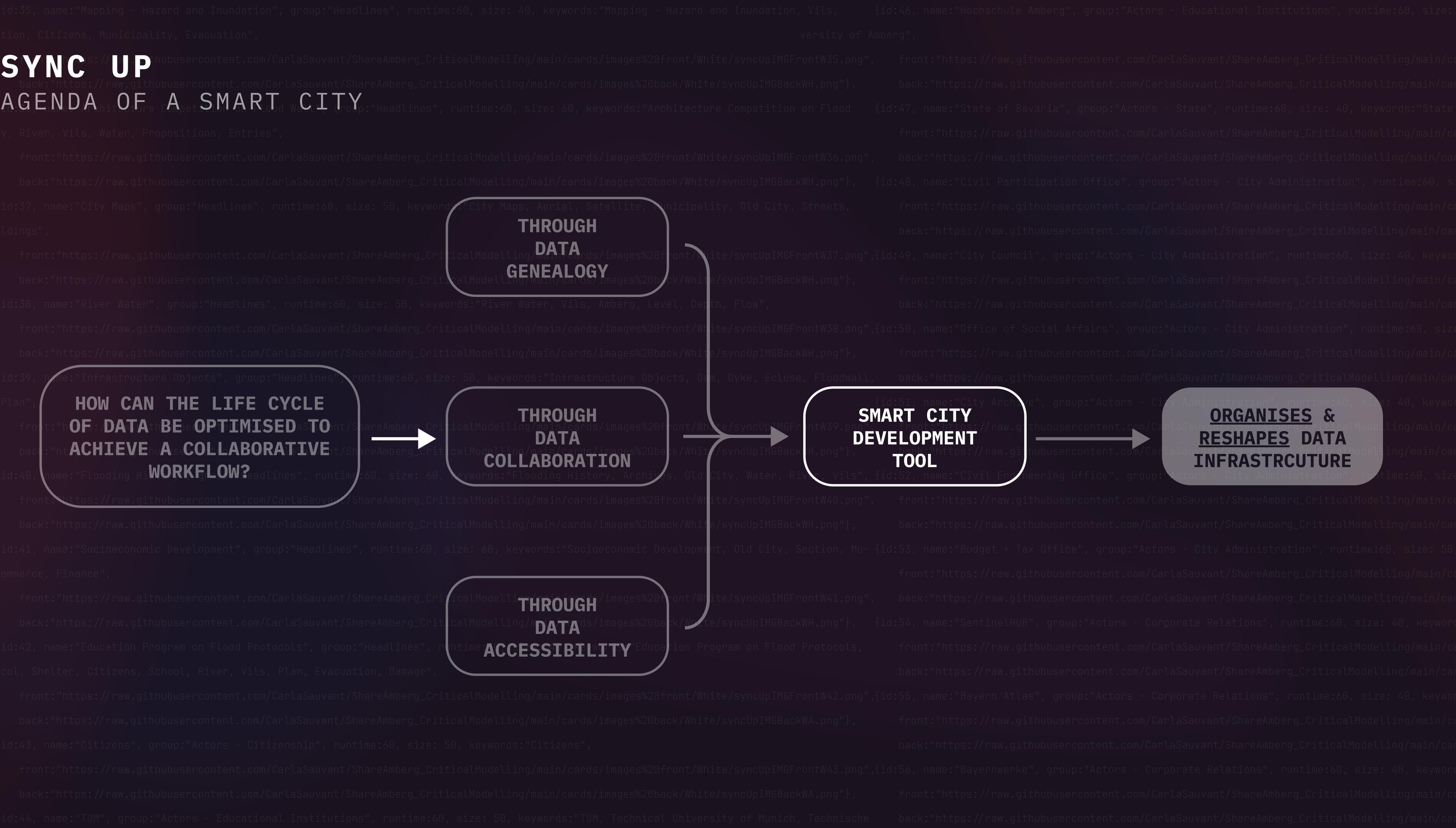
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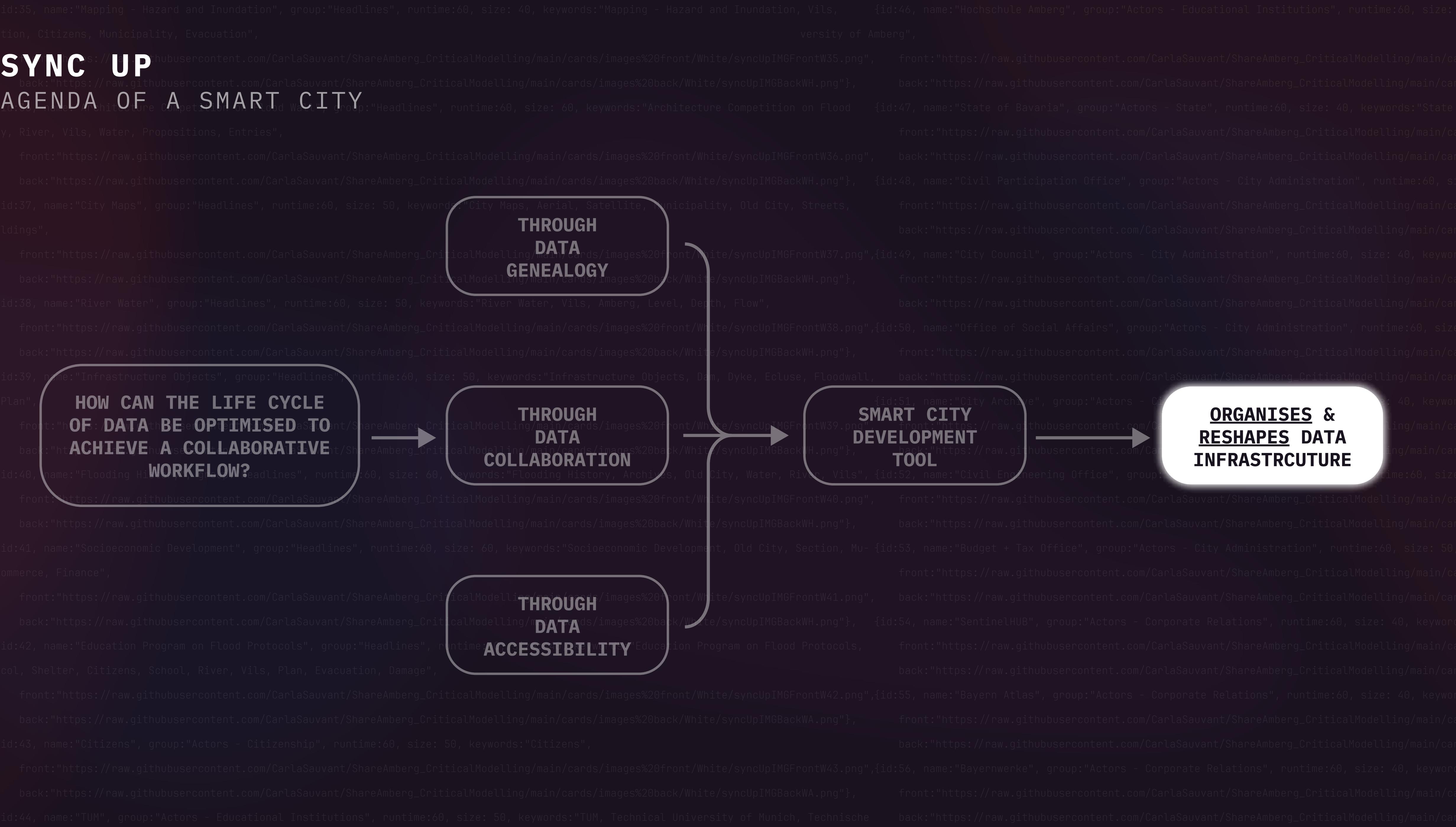
THROUGH
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COLLABORATION

THROUGH
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SMART CITY
DEVELOPMENT
TOOL

ORGANISES &
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INFRASTRCTURE





HOW?

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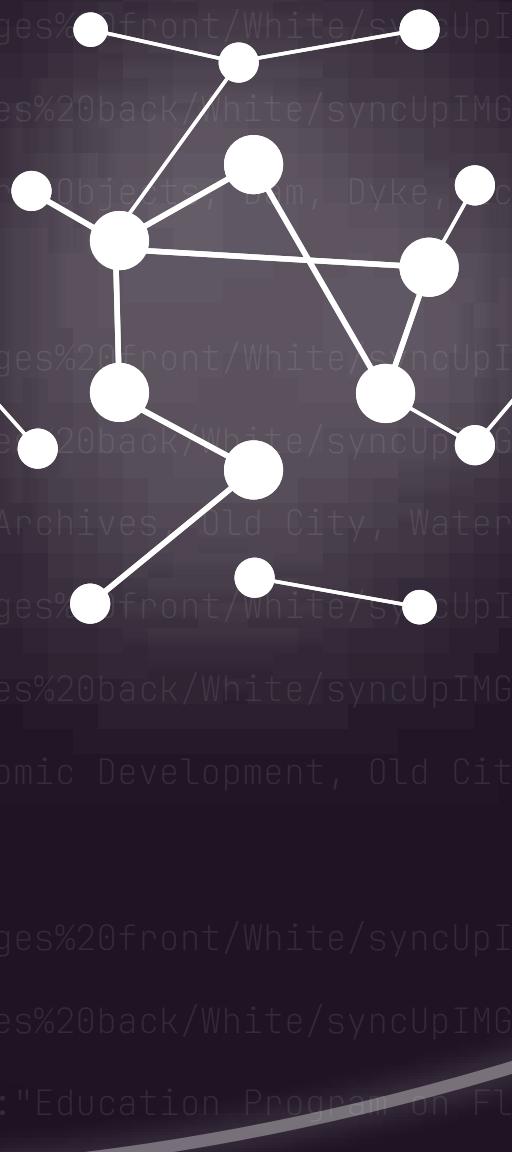
SYNC UP AGENDA OF A SMART CITY

UNIVERSAL DATA SHARING & ACCESS PLATFORM

STREAMLINED & COLLABORATIVE WORKFLOW

CONNECTIONS BETWEEN ACTORS & DATA

SPACE FOR "HAPPY ACCIDENTS"



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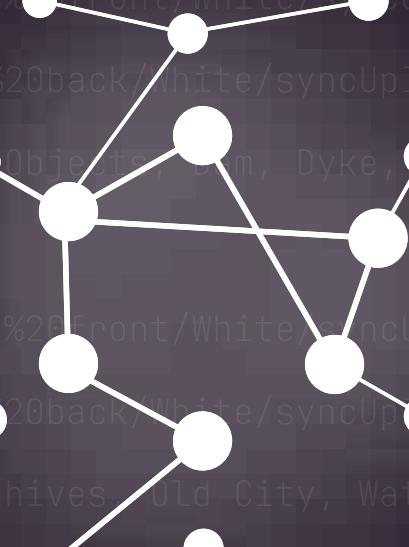
SYNC UP AGENDA OF A SMART CITY

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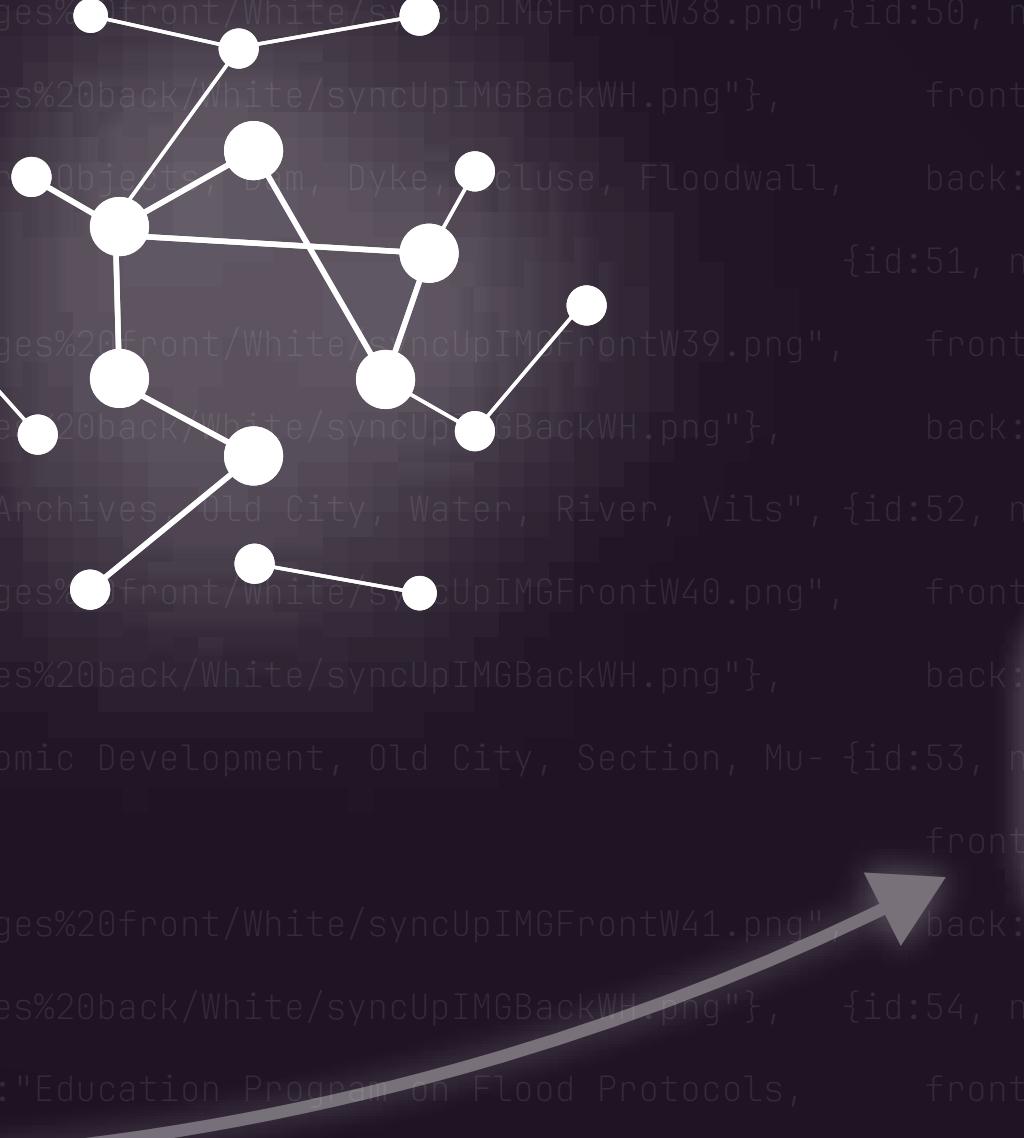
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SYNC UP AGENDA OF A SMART CITY

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{id:52, name:"Budget + Tax Office", group:"Actors - City Administration", runtime:60, size: 50, keywords:"Budget + Tax Office",

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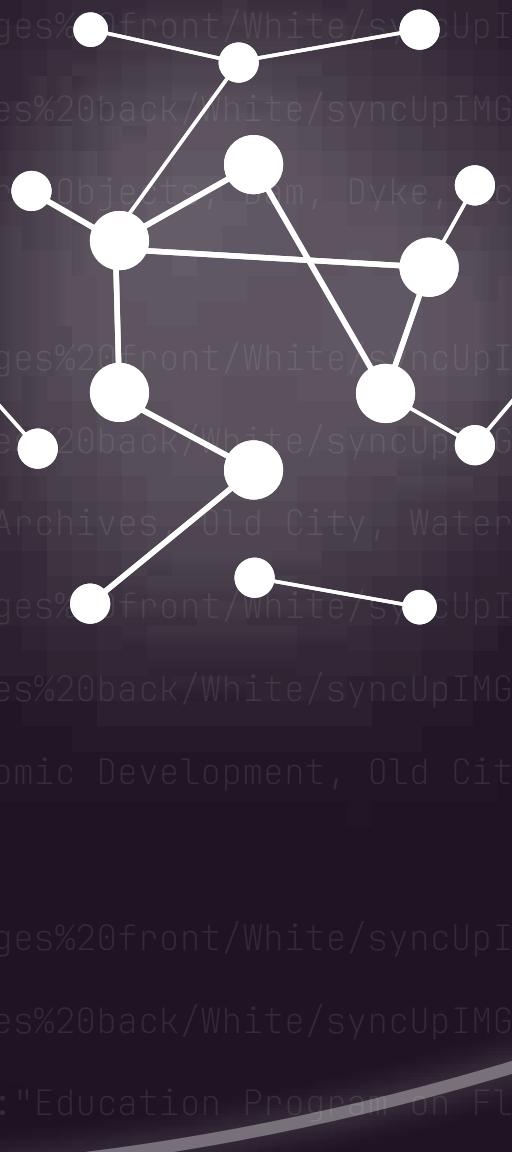
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**UNIVERSAL DATA
SHARING & ACCESS
PLATFORM**

**STREAMLINED
& COLLABORATIVE
WORKFLOW**

**CONNECTIONS
BETWEEN
ACTORS & DATA**

**SPACE FOR
"HAPPY ACCIDENTS"**

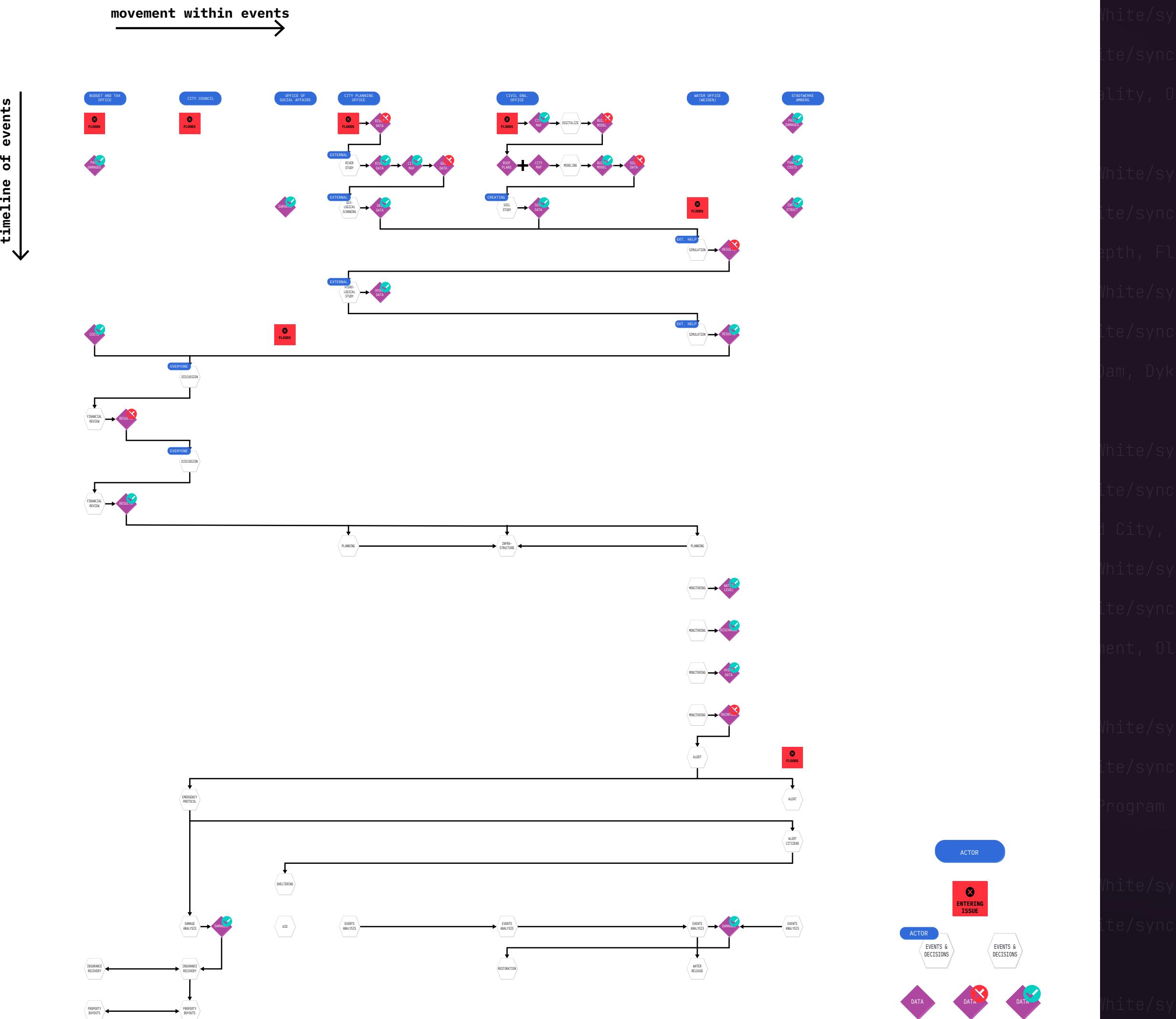


DATA FLOW ANALYSIS

2022 & 2035

SYNC UP

DATA FLOW 2022



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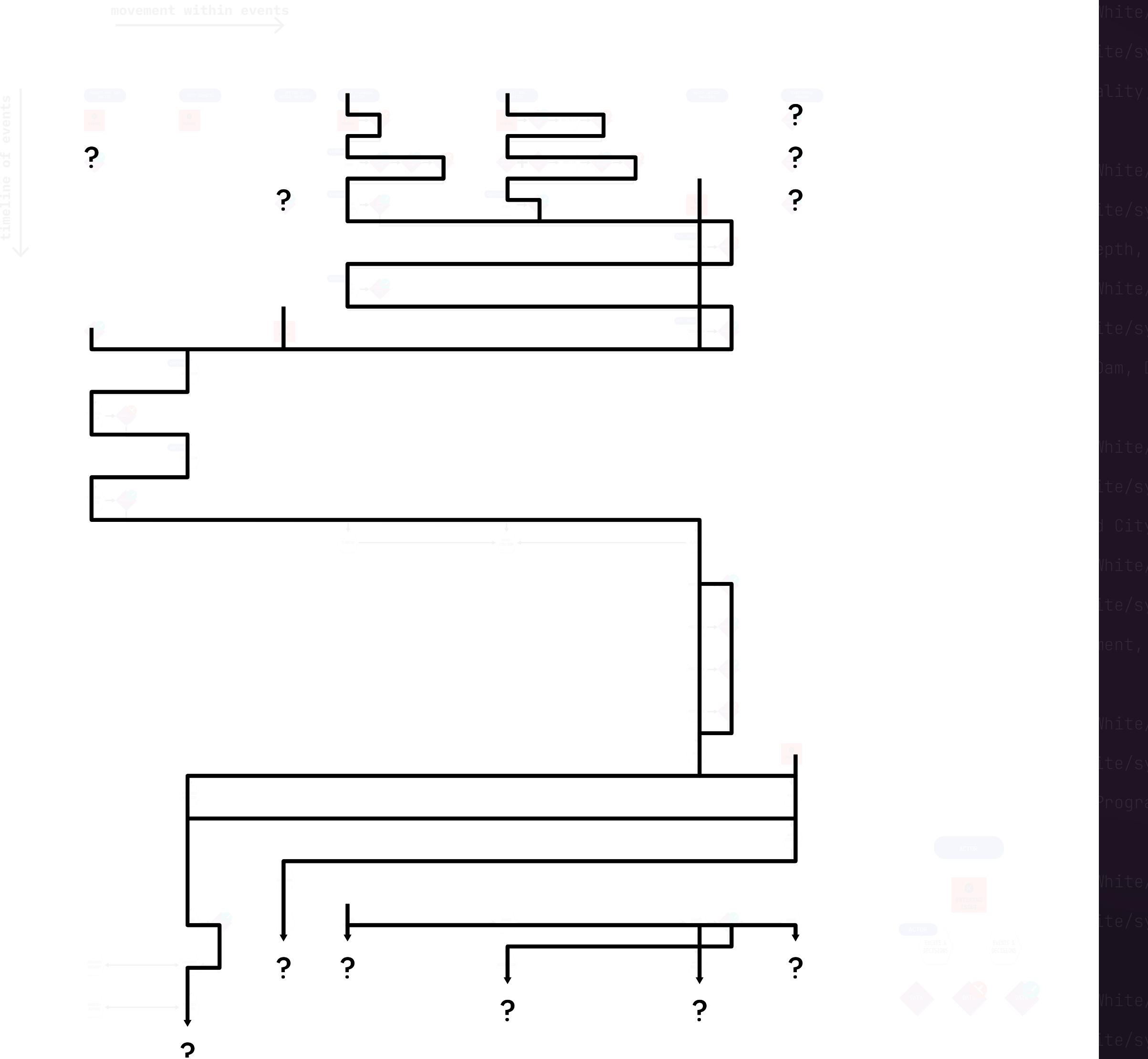
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University of Munich, Technische

SYNC UP

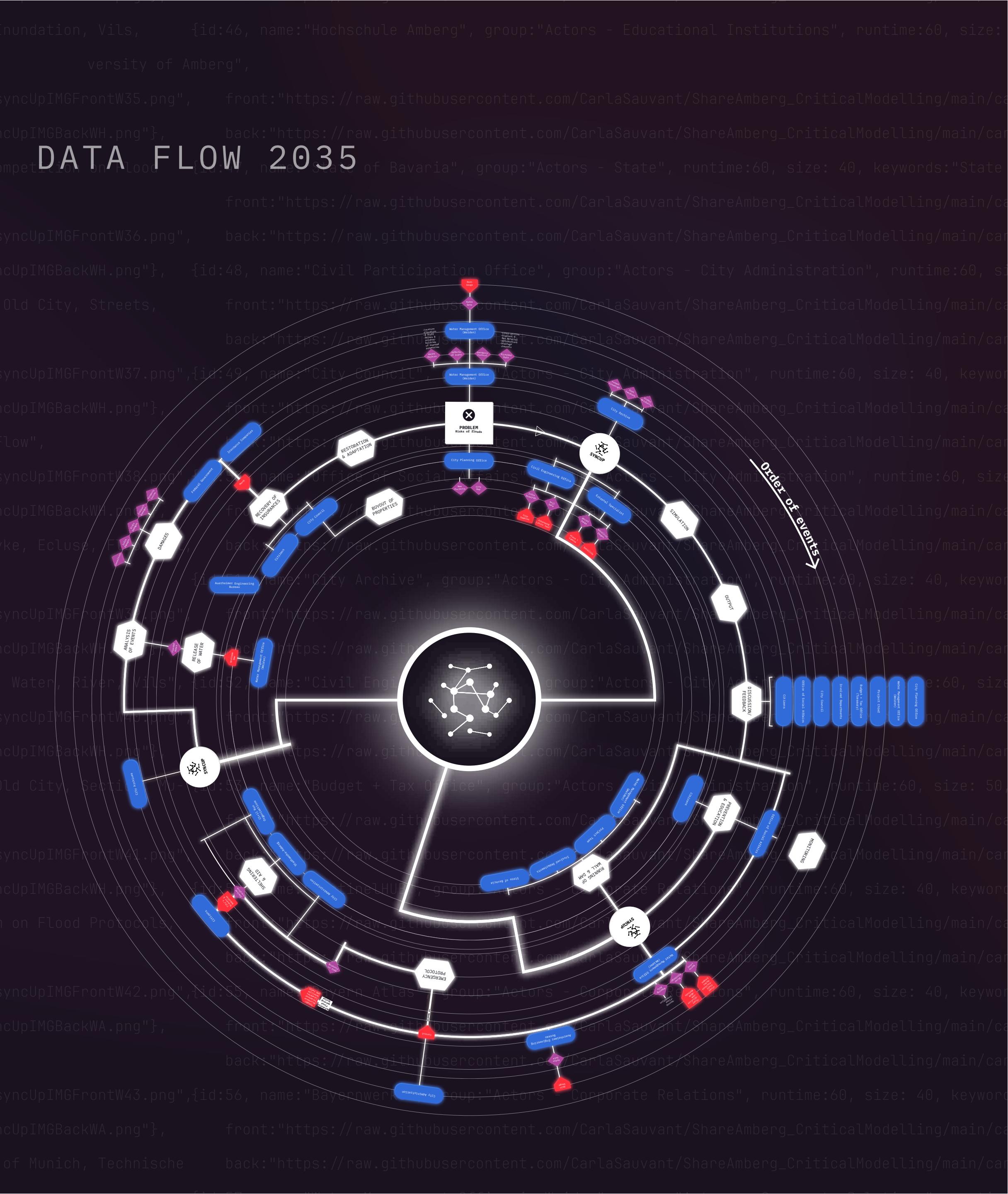
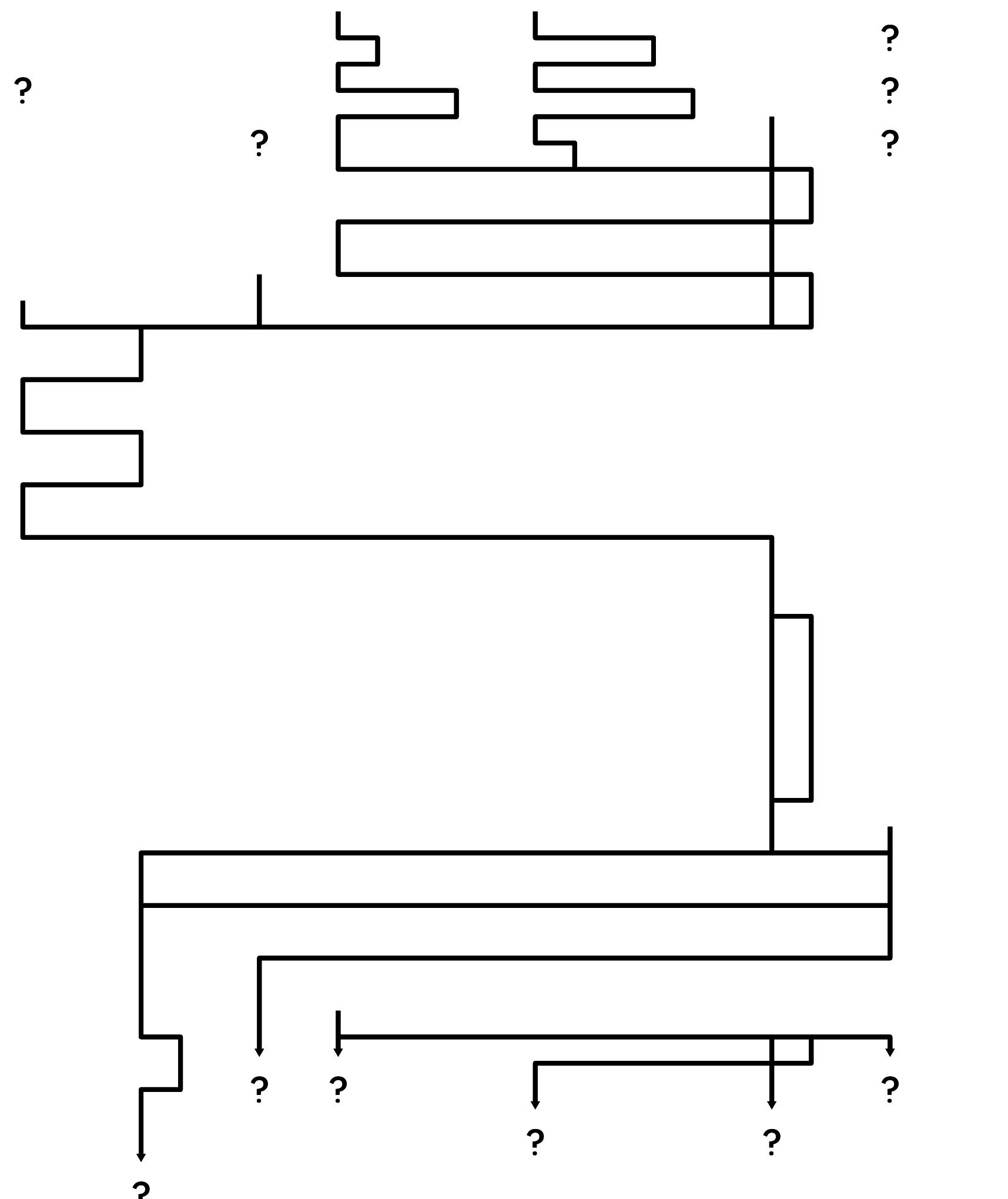
DATA FLOW 2022



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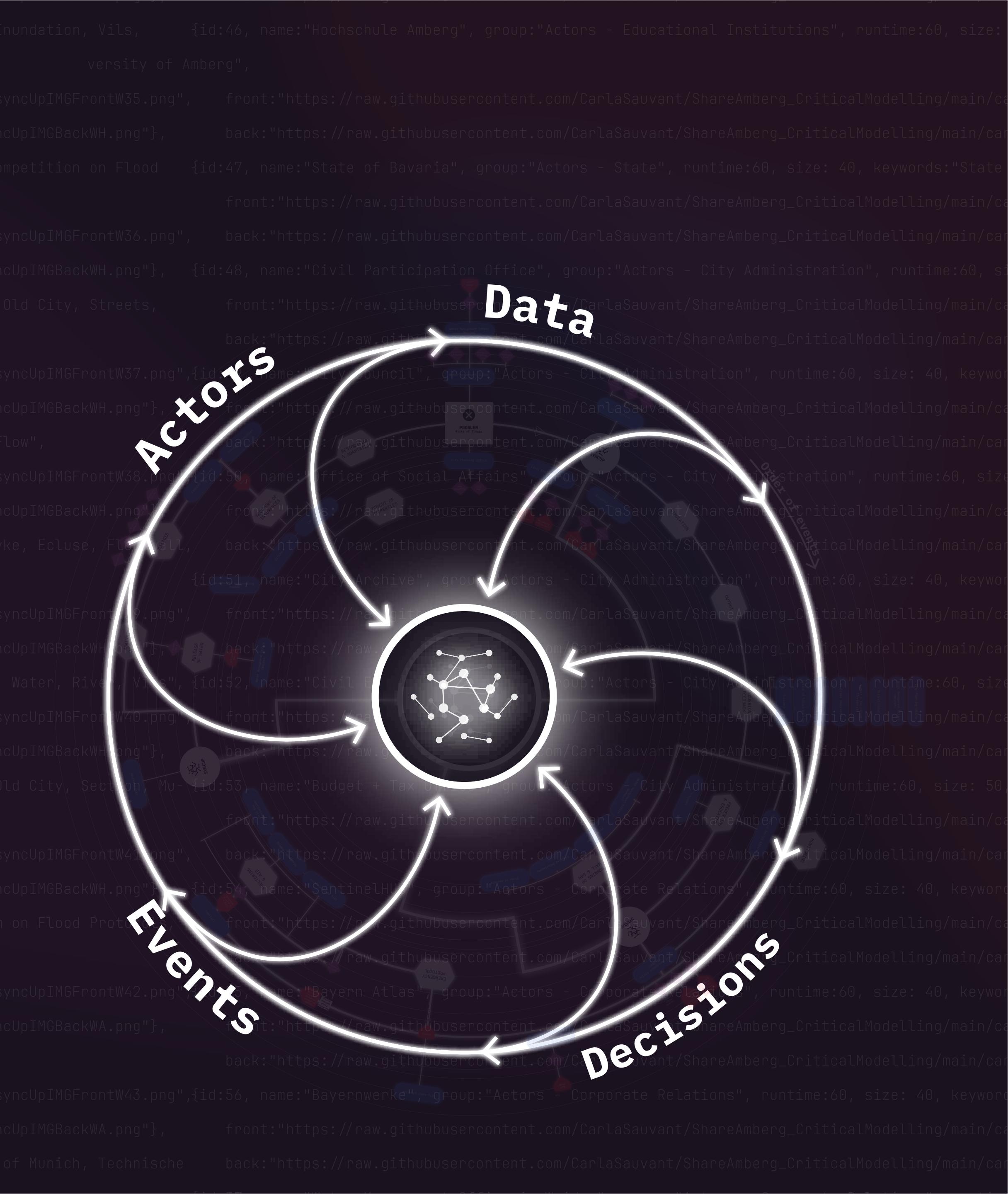
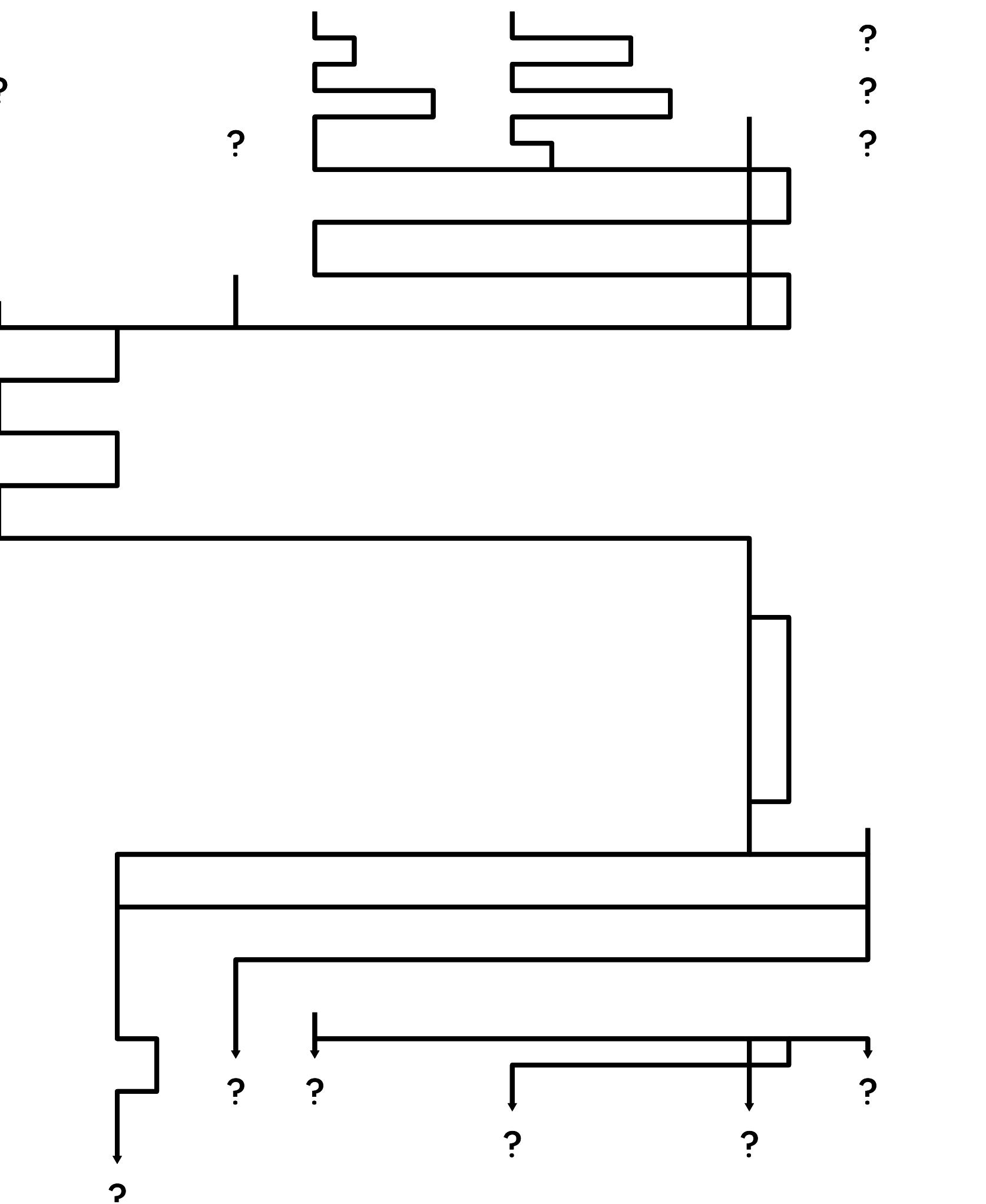
SYNC UP

DATA FLOW 2022

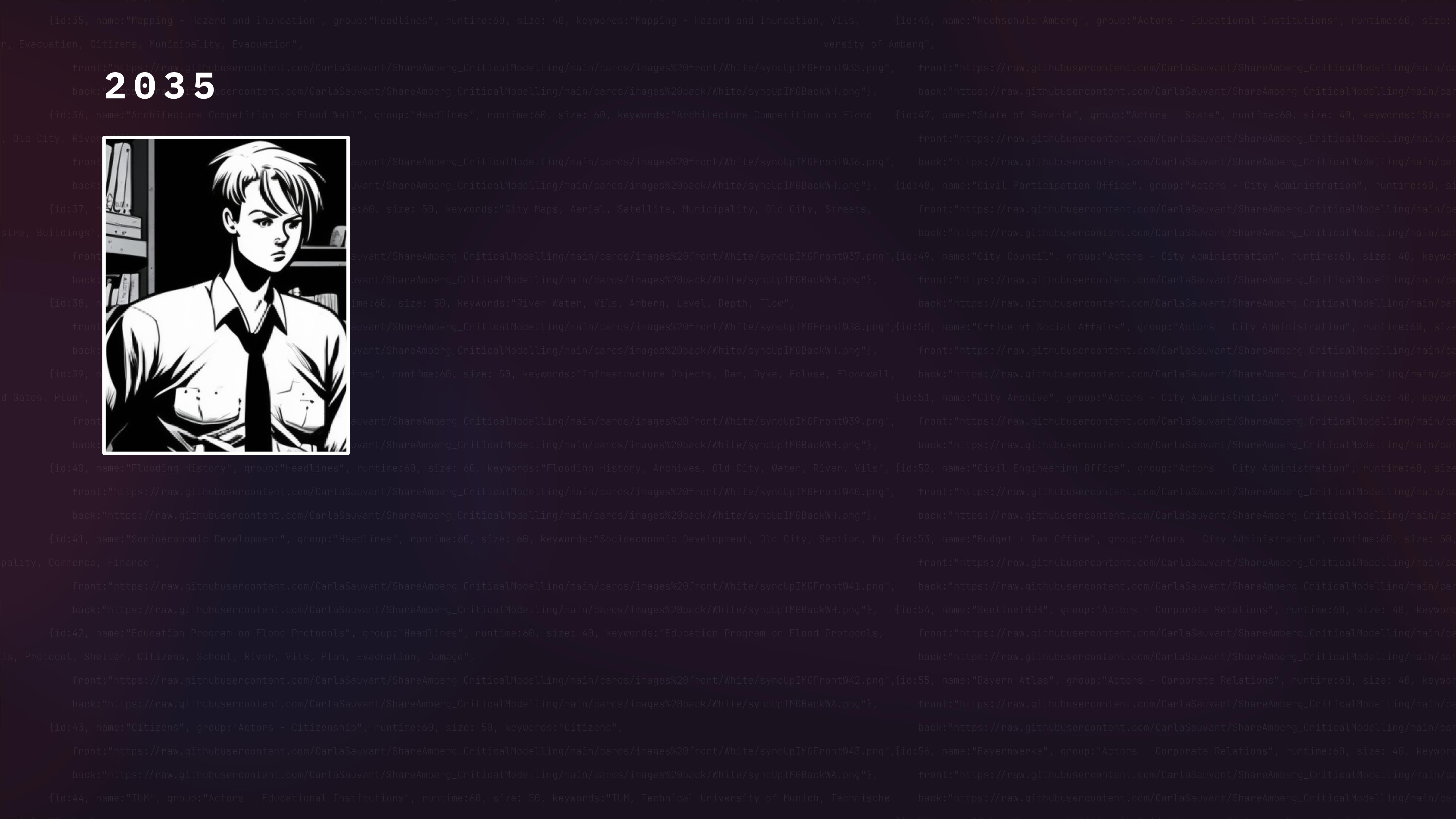


SYNC UP

AGENDA OF A SMART CITY - 2022 / 2035

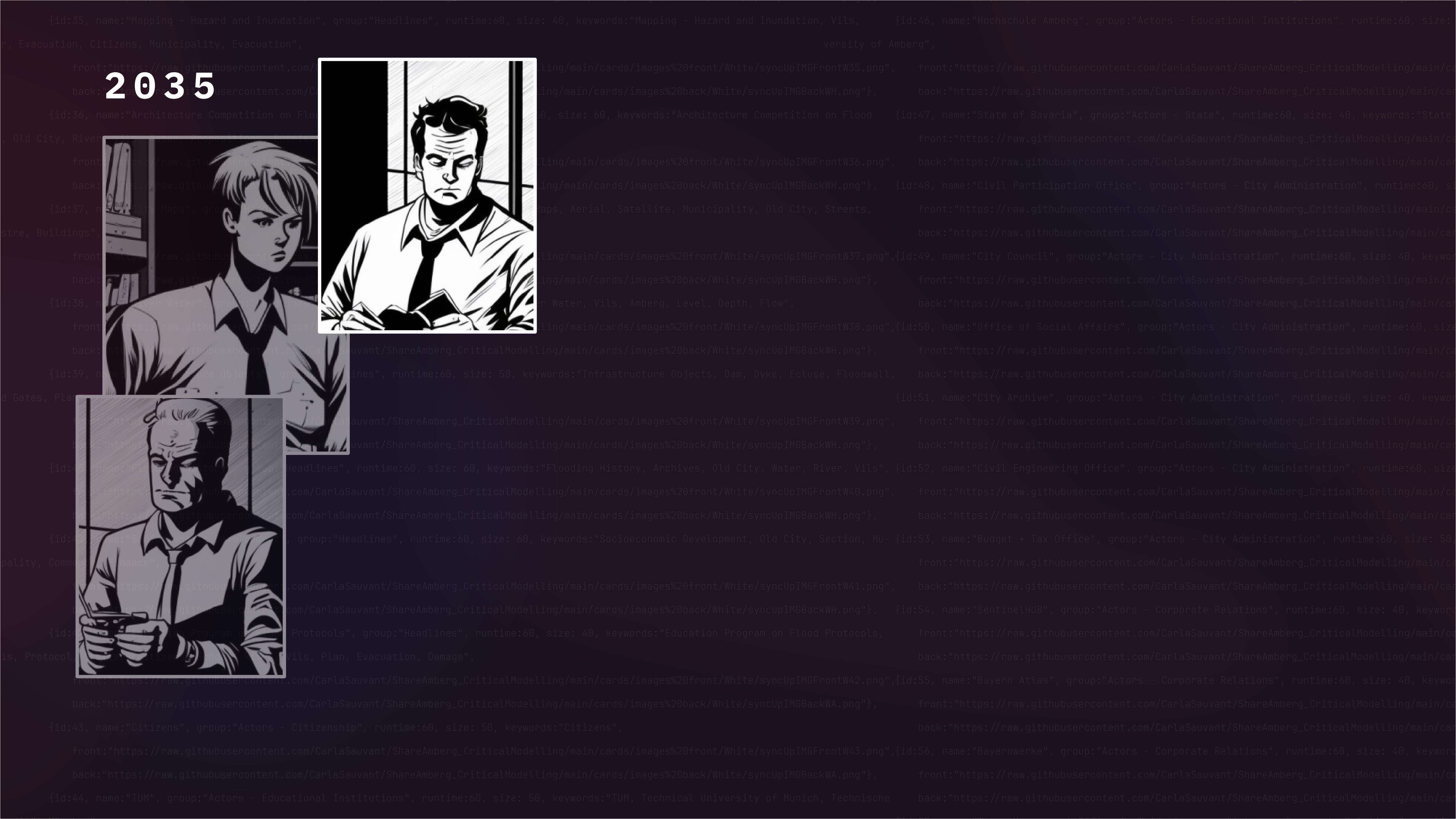


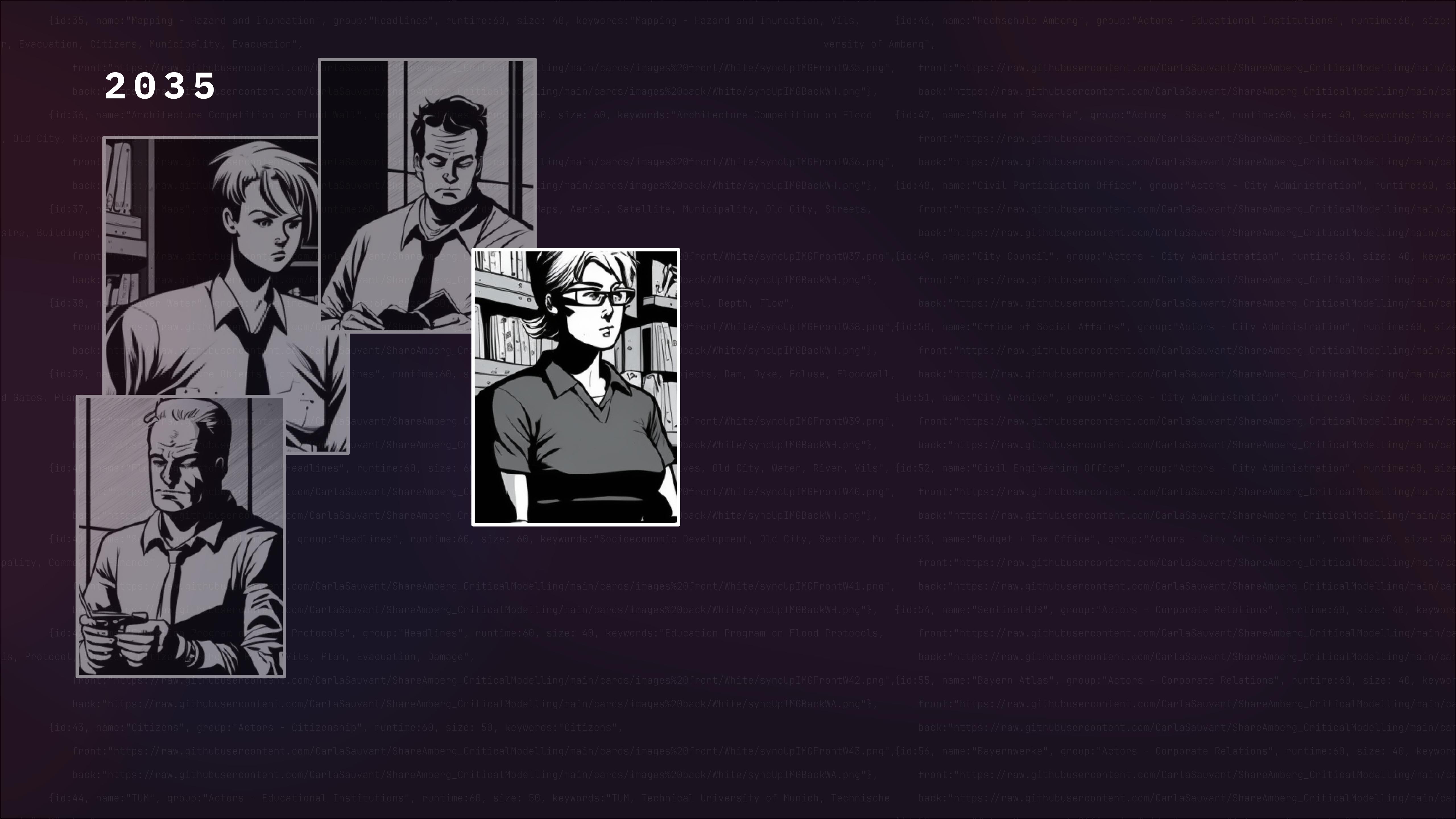
WHAT DOES THIS MEAN?



2035











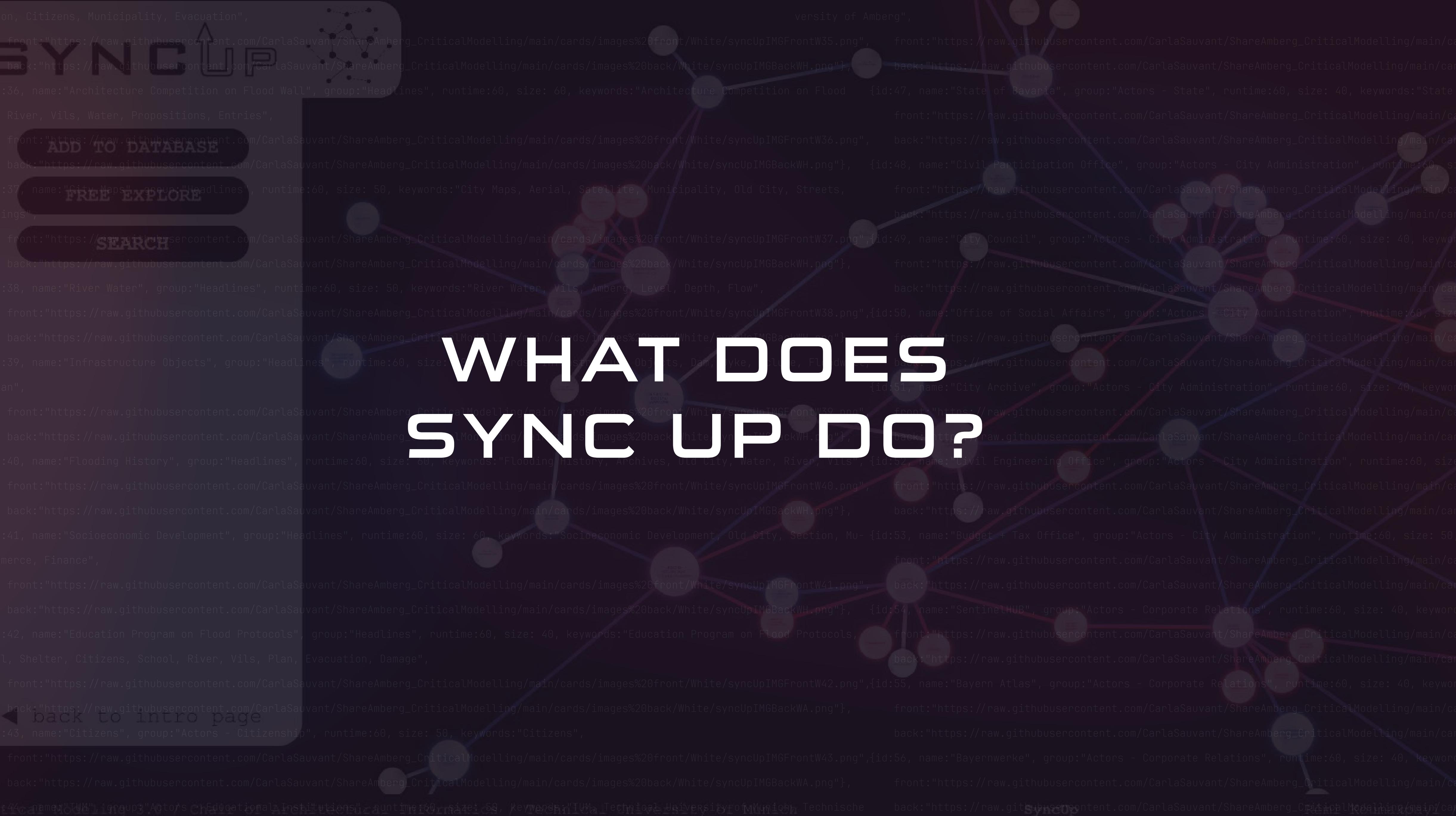


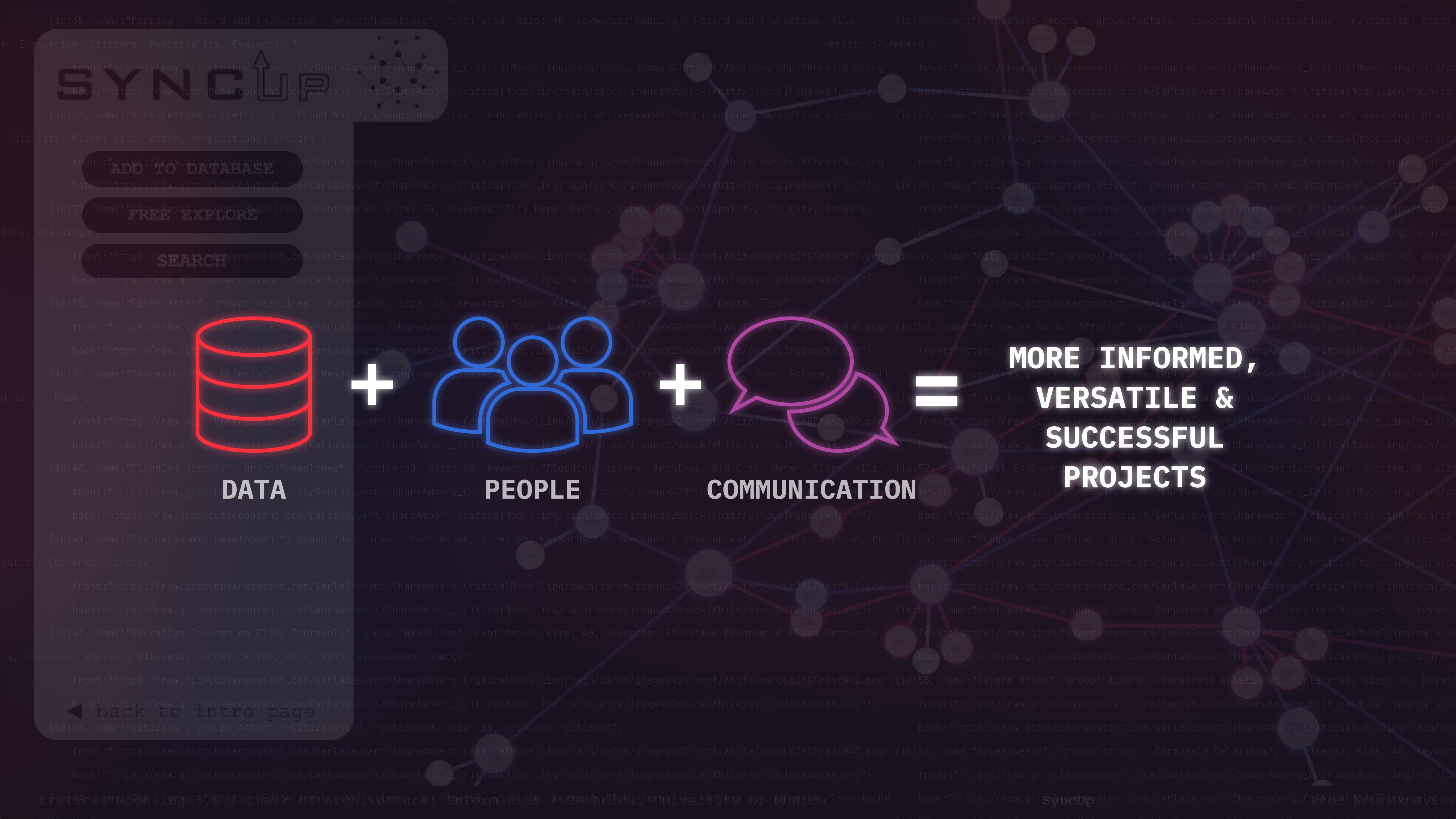




VIDEO 1- SEARCH

WHAT DOES SYNC UP DO?





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Protocol, Shelter, Citizens, School, River, Vils, Plan, Evacuation, Damage", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW44.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWA.png"},

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DATA

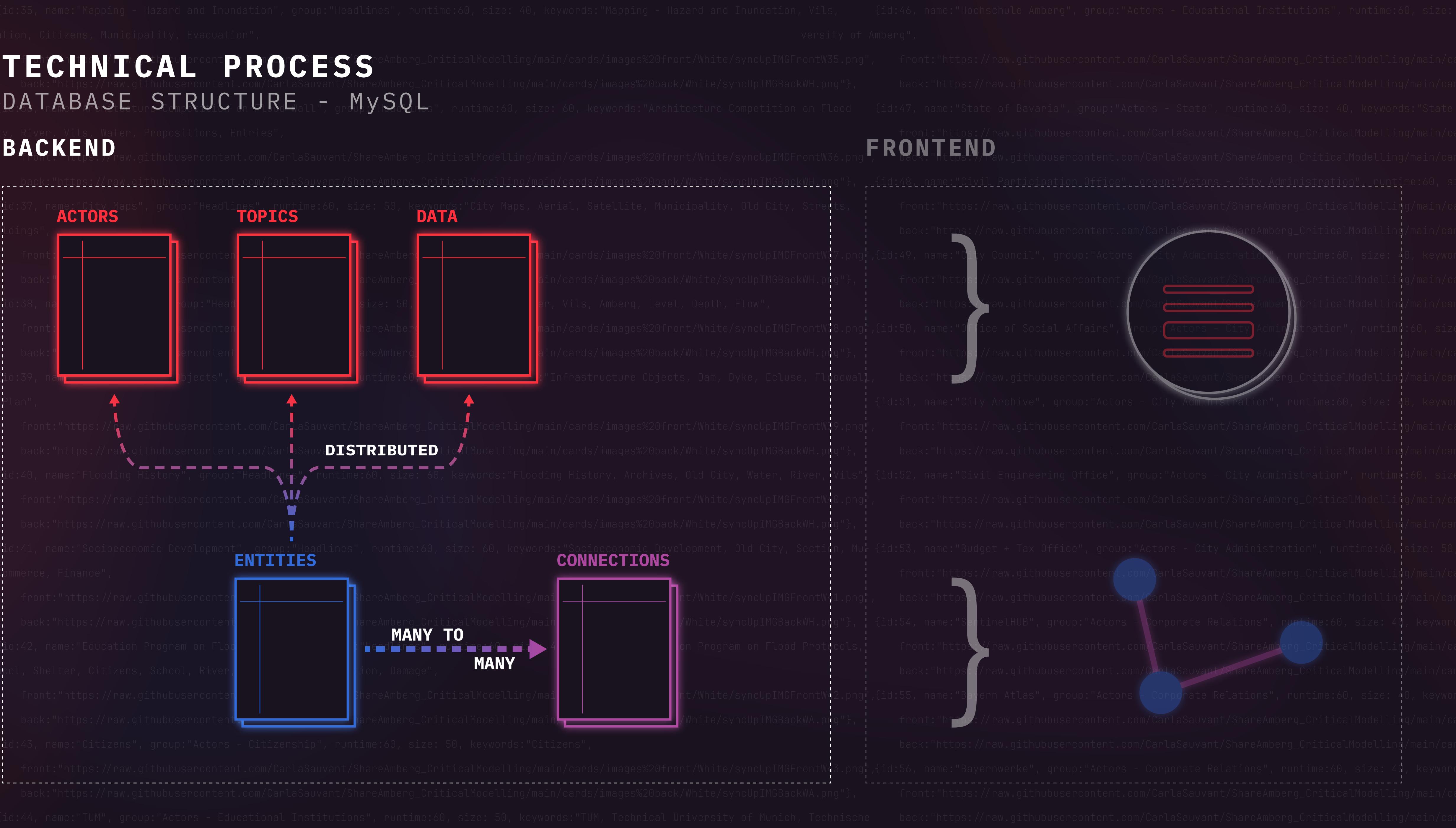
PEOPLE

COMMUNICATION

**MORE INFORMED,
VERSATILE &
SUCCESSFUL
PROJECTS**

back to intro page





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TECHNICAL PROCESS DATABASE STRUCTURE - MySQL

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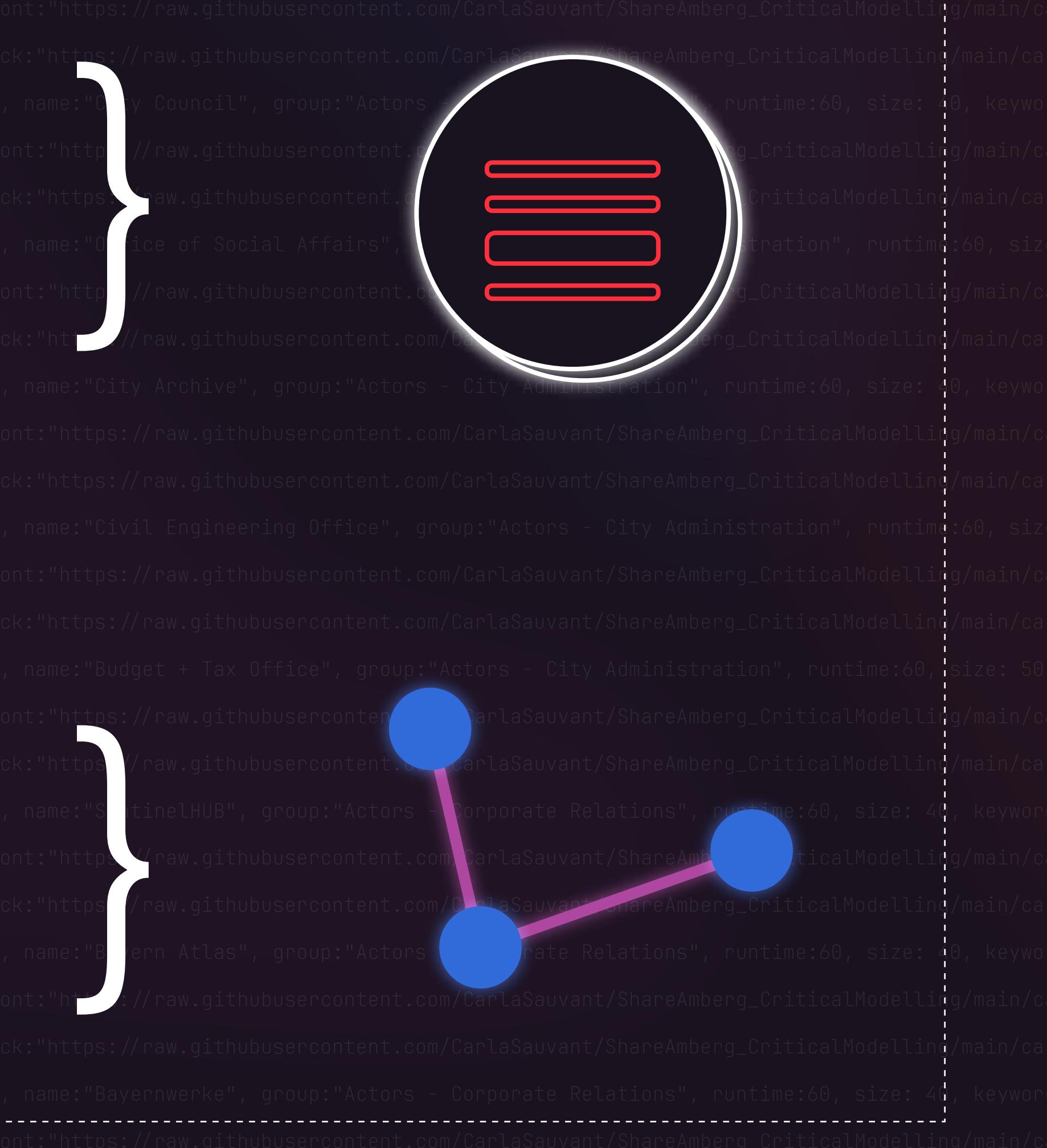
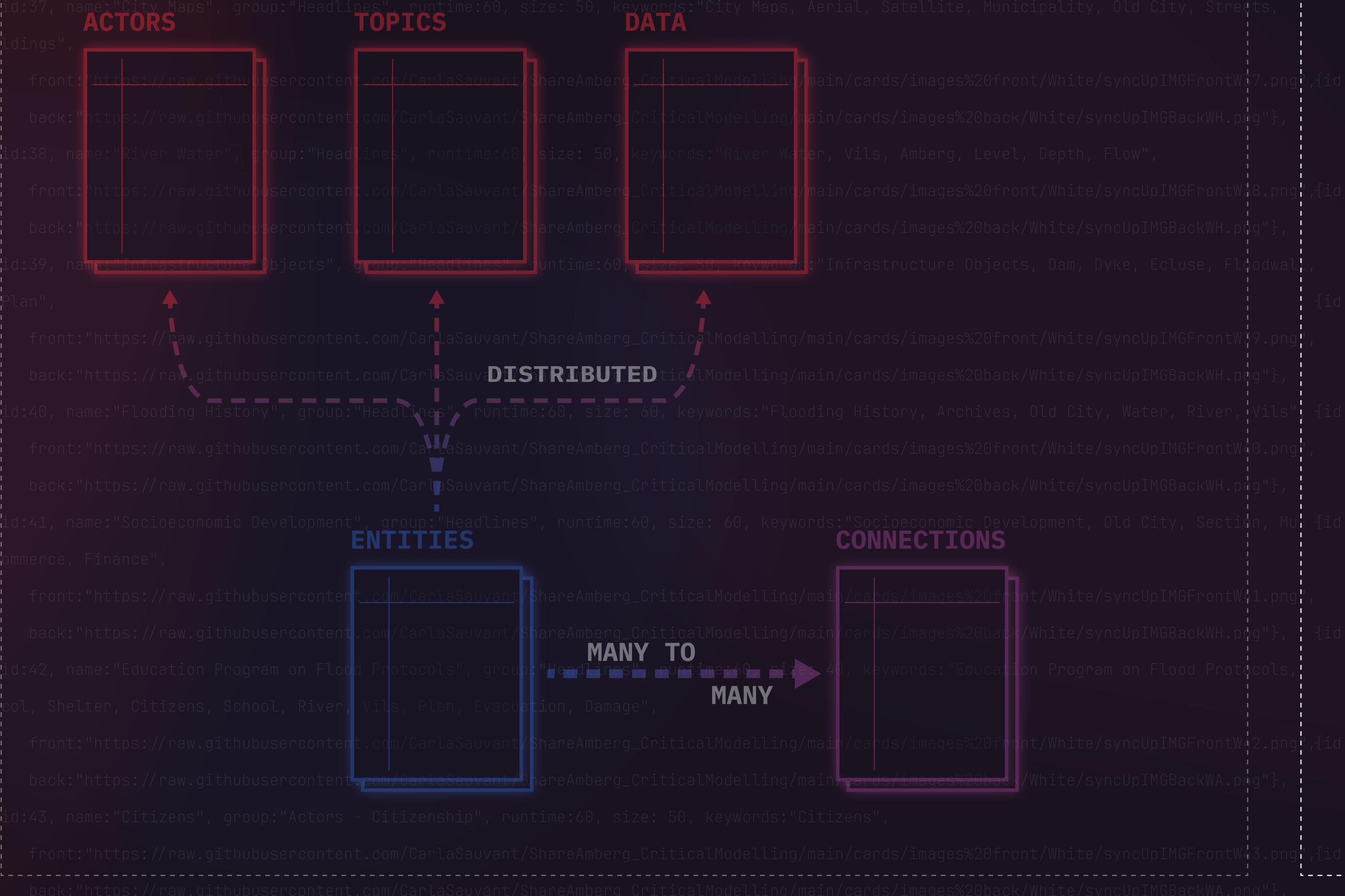
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TECHNICAL PROCESS

NETWORK STRUCTURE - JavaScript D3 Library

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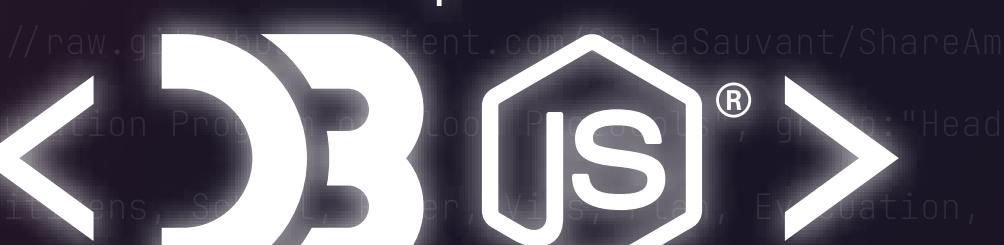
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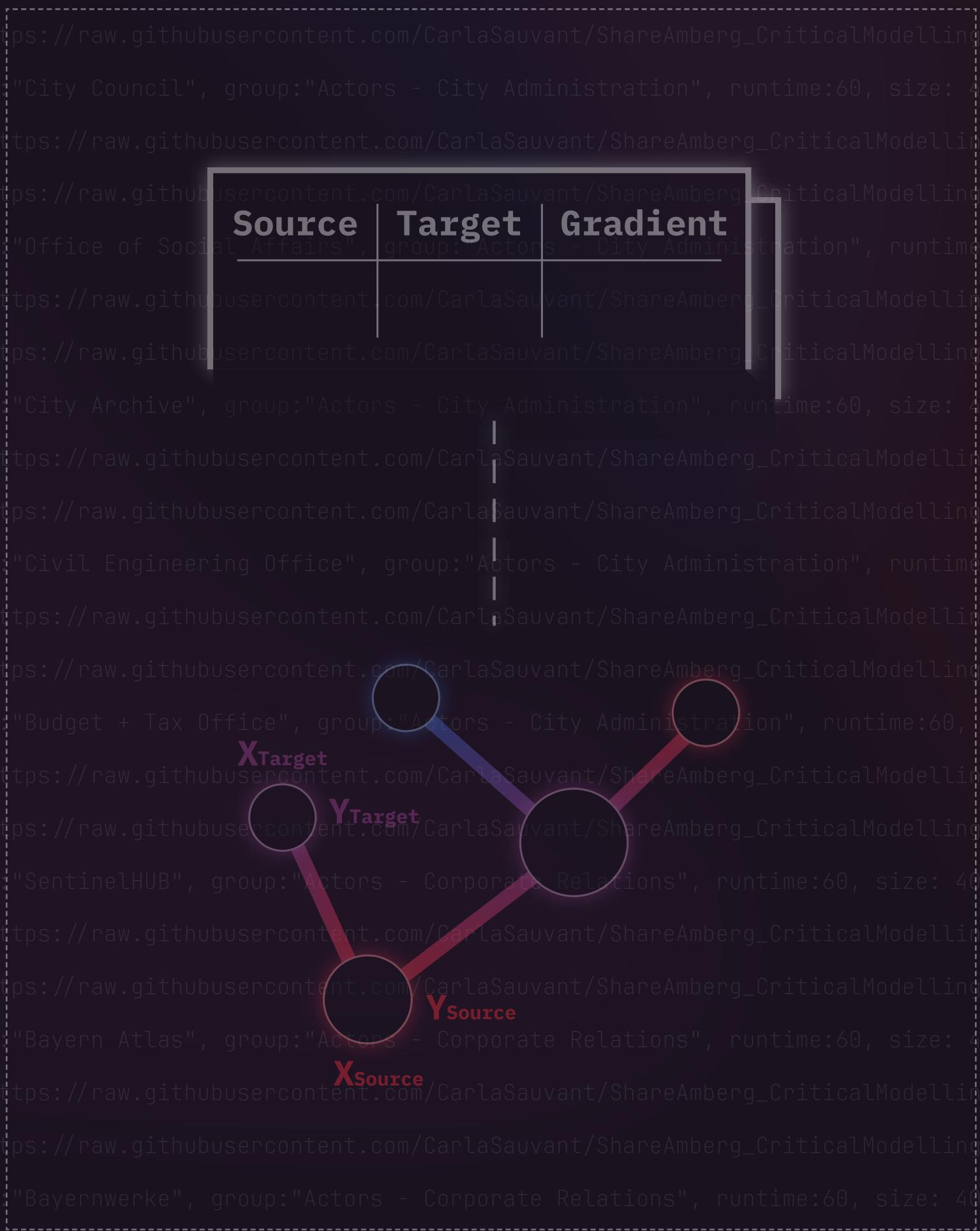
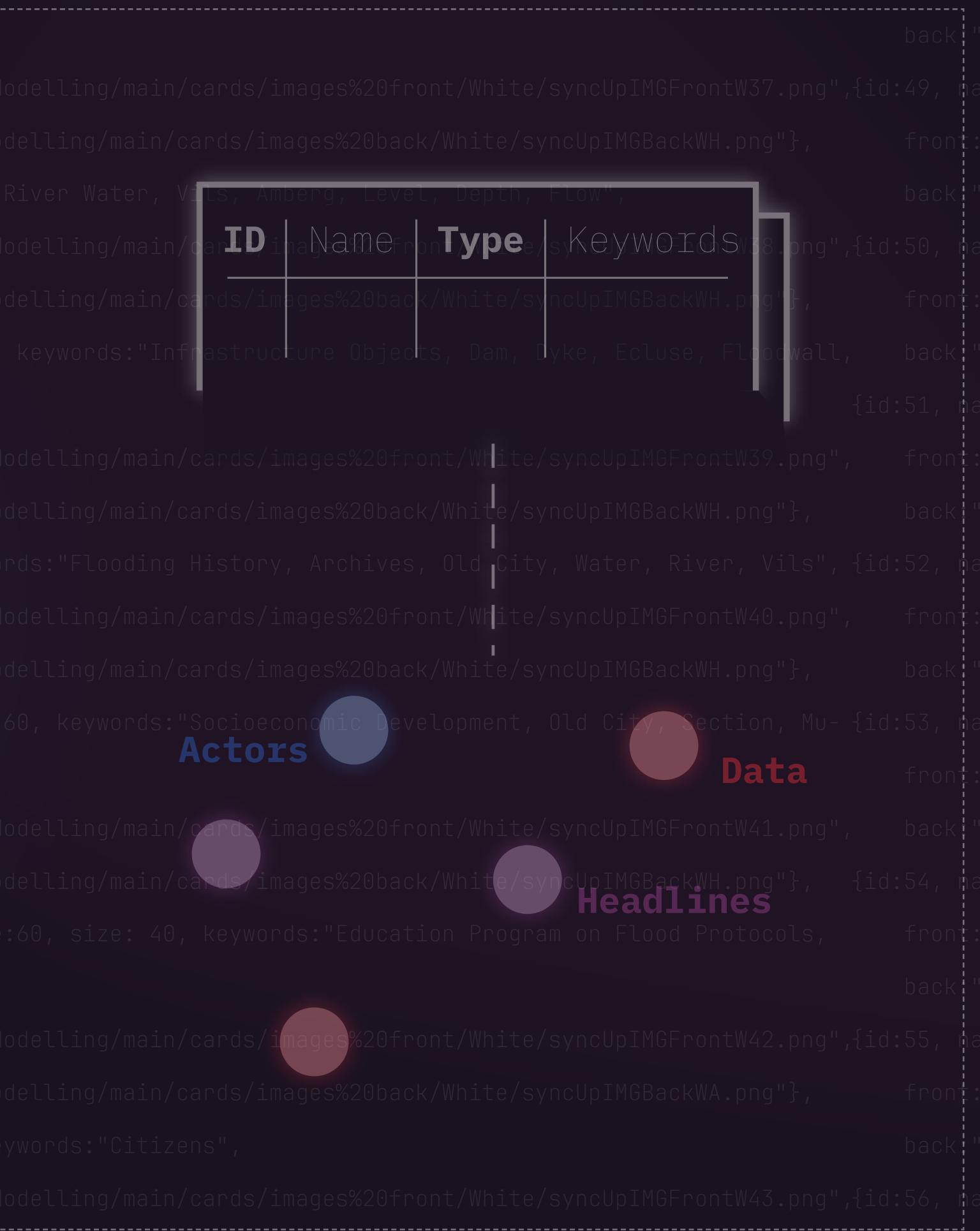
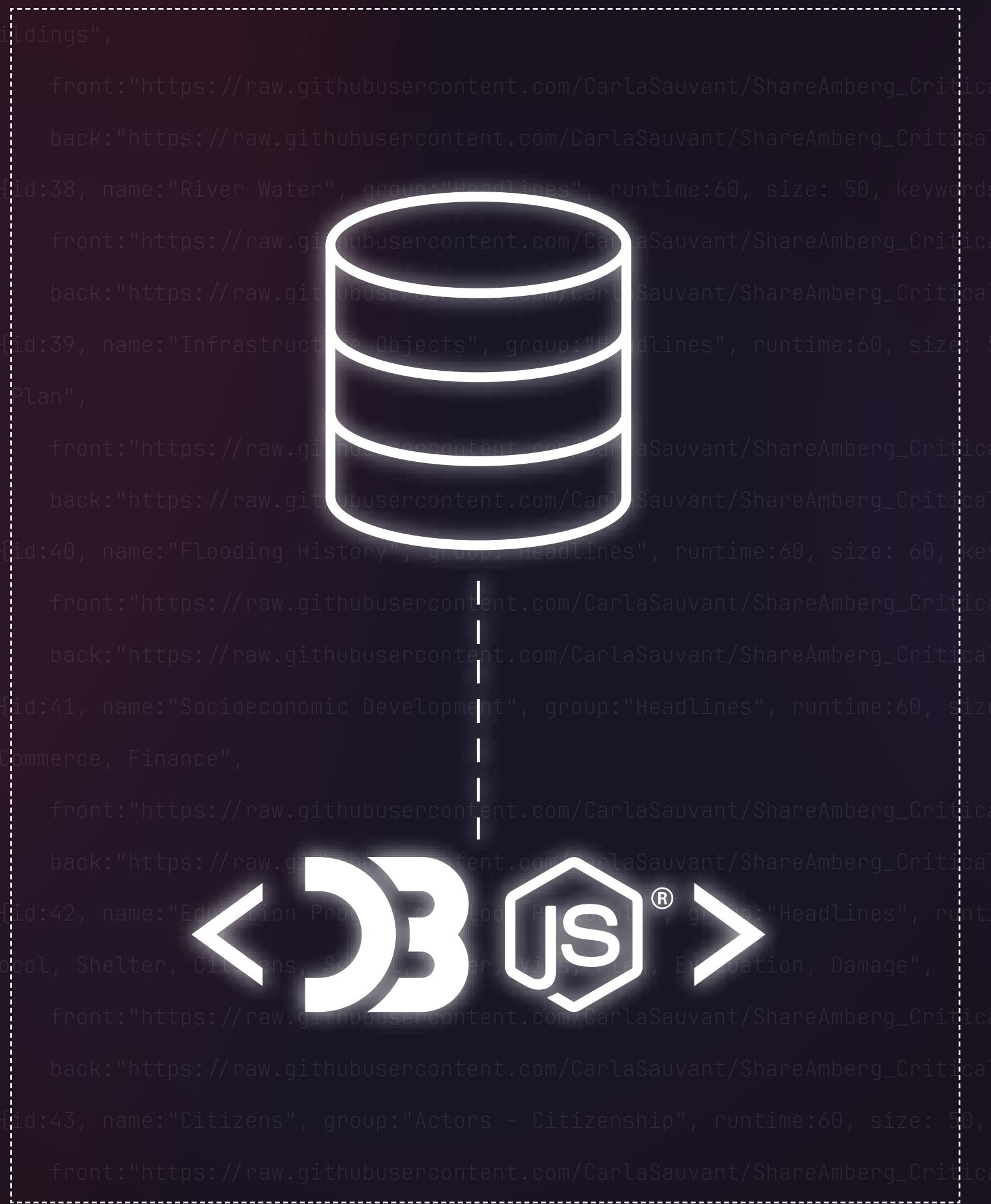
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1. DATABASE INTO D3.JS & NODE.JS

2. DEFINITION OF NODES

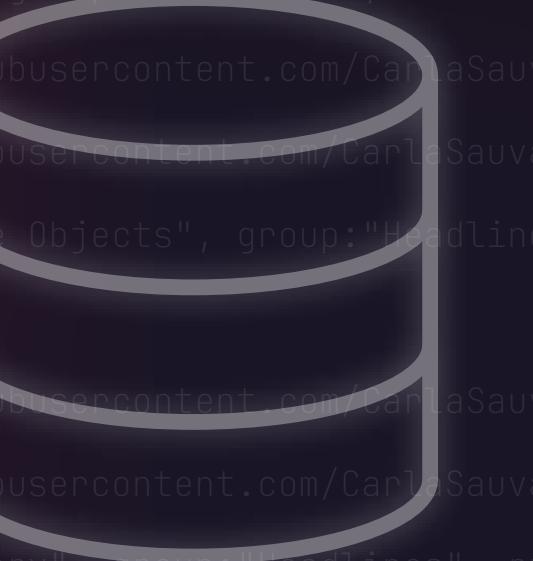
3. DEFINITION OF LINKS



TECHNICAL PROCESS

NETWORK STRUCTURE - JavaScript D3 Library

1. DATABASE INTO D3.JS & NODE.JS



DEFINTION OF NODES

Name	Type	Keywords
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3. DEFINITION OF LINKS

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TECHNICAL PROCESS NETWORK STRUCTURE - JavaScript D3 Library

1. DATABASE INTO D3.JS & NODE.JS

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2. DEFINITION OF NODES

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ID	Name	Type	Keywords
49	Office of Sociology	Social Science	Research, Education
50	City Archive	History	Archives, Old City, Manuscript, Document
51	Civil Engineering Office	Architecture	Construction, Infrastructure, Project
52	Budget + Tax Office	Finance	Taxation, Revenue, Audit
53	SentinelHUB	Remote Sensing	Data Analysis, Monitoring, Prediction
54	BayernAtlas	Geospatial Data	GIS, Mapping, Analysis
55	Bayernwerke	Energy Sector	Power Grid, Infrastructure, Management

Actors



Data

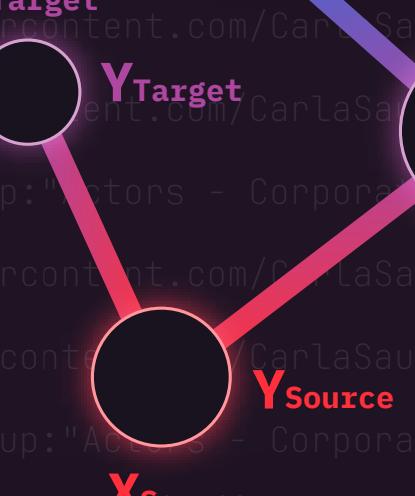


Headlines



Source	Target	Gradient
XSource	YTarget	Red
YSource	XTarget	Blue
YSource	YTarget	Purple
XSource	XTarget	Green

XTarget



YTarget



YSource



{id:35, name:"Mapping - Hazard and Inundation", group:"Headlines", runtime:60, size: 40, keywords:"Mapping - Hazard and Inundation, Vils, Evacuation, Citizens, Municipality, Evacuation",

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TECHNICAL PROCESS

NETWORK STRUCTURE - JavaScript D3 Library

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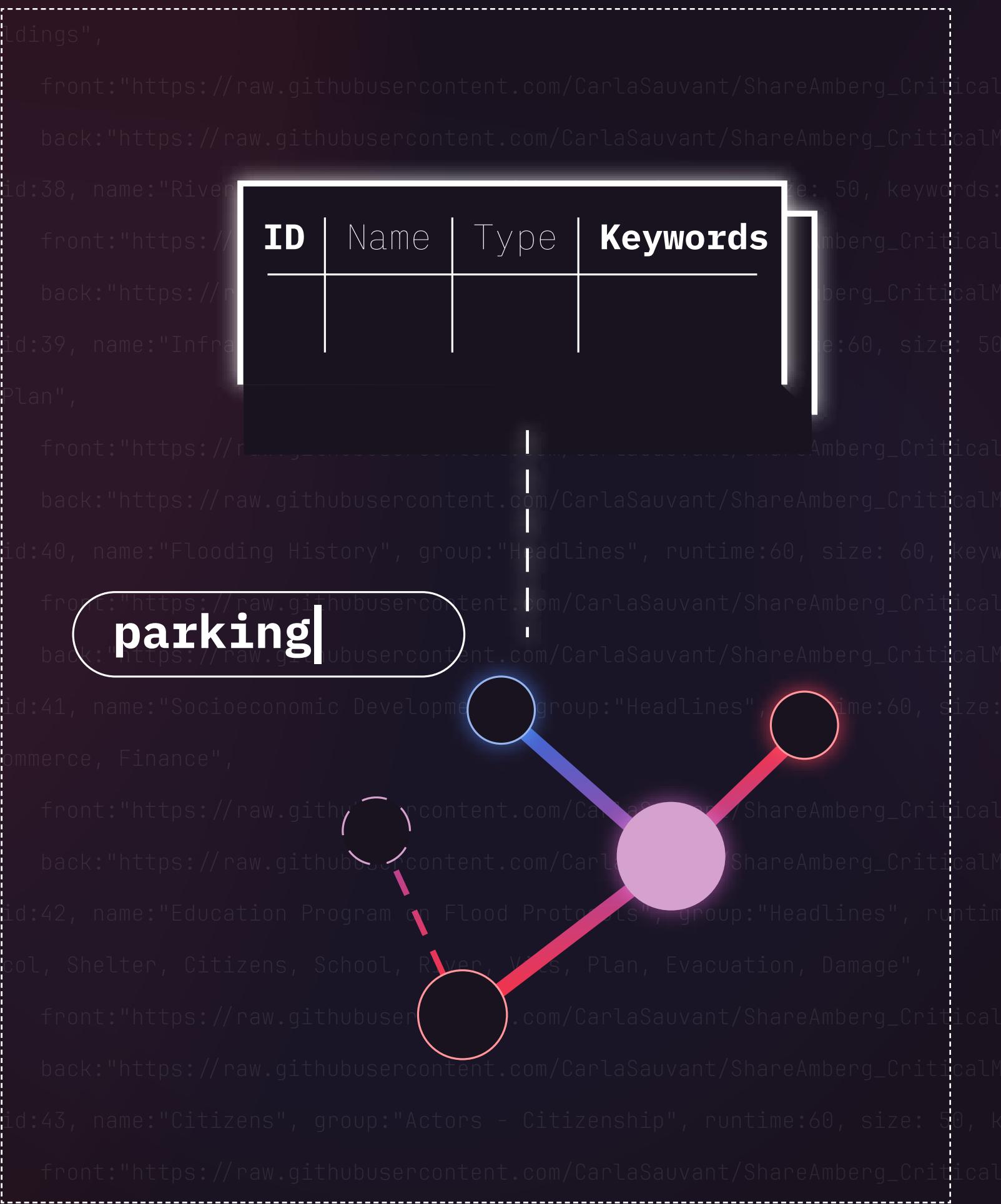
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4. SEARCH OPTION SET UP

5. METADATA DISTRIBUTION

6. METADATA VISIBILITY



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TECHNICAL PROCESS

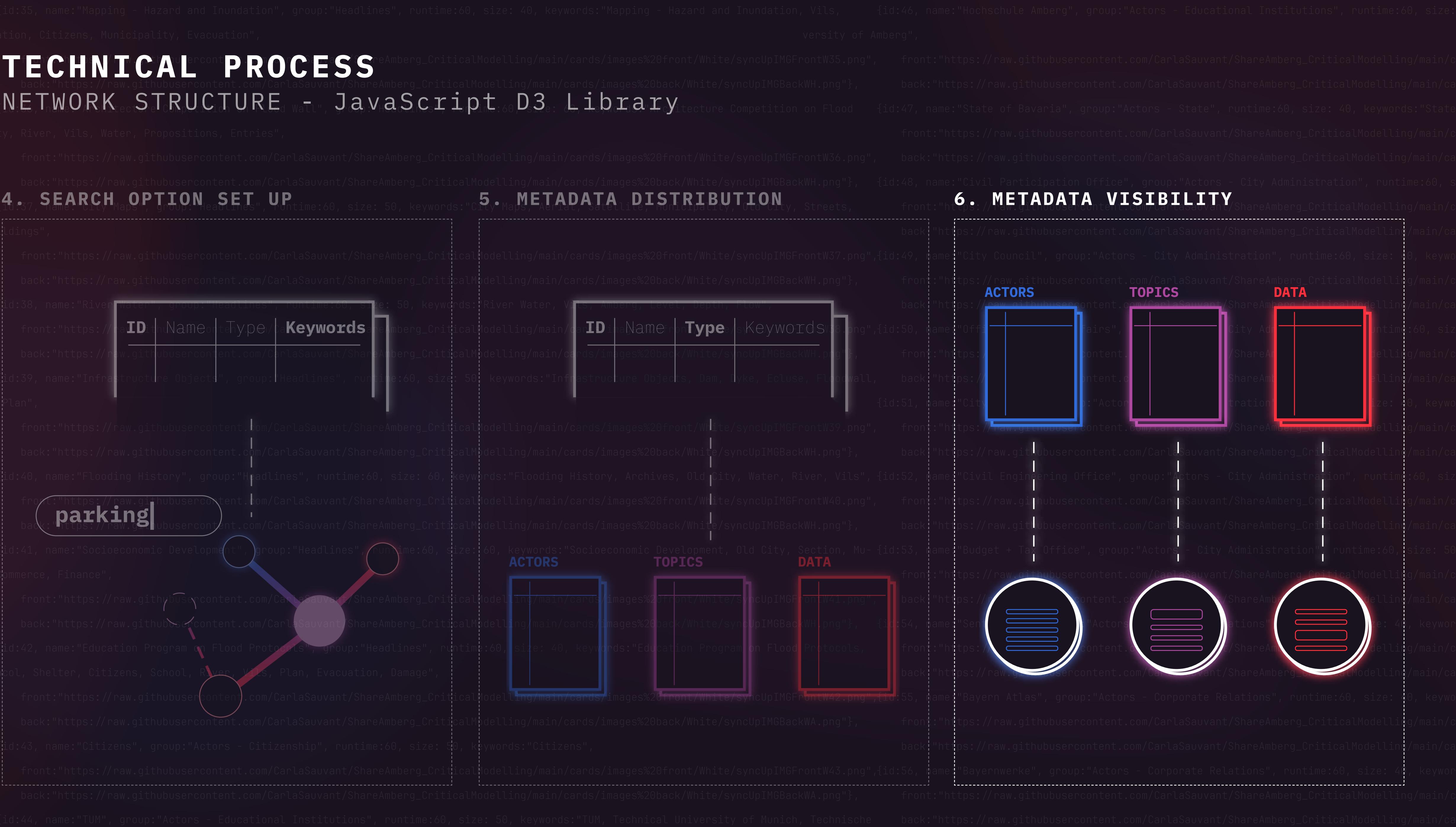
NETWORK STRUCTURE - JavaScript D3 Library

4. SEARCH OPTION SET

METADATA DISTRIBUTION

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ACTORS	TOPICS	DATA	

METADATA VISIBILITY



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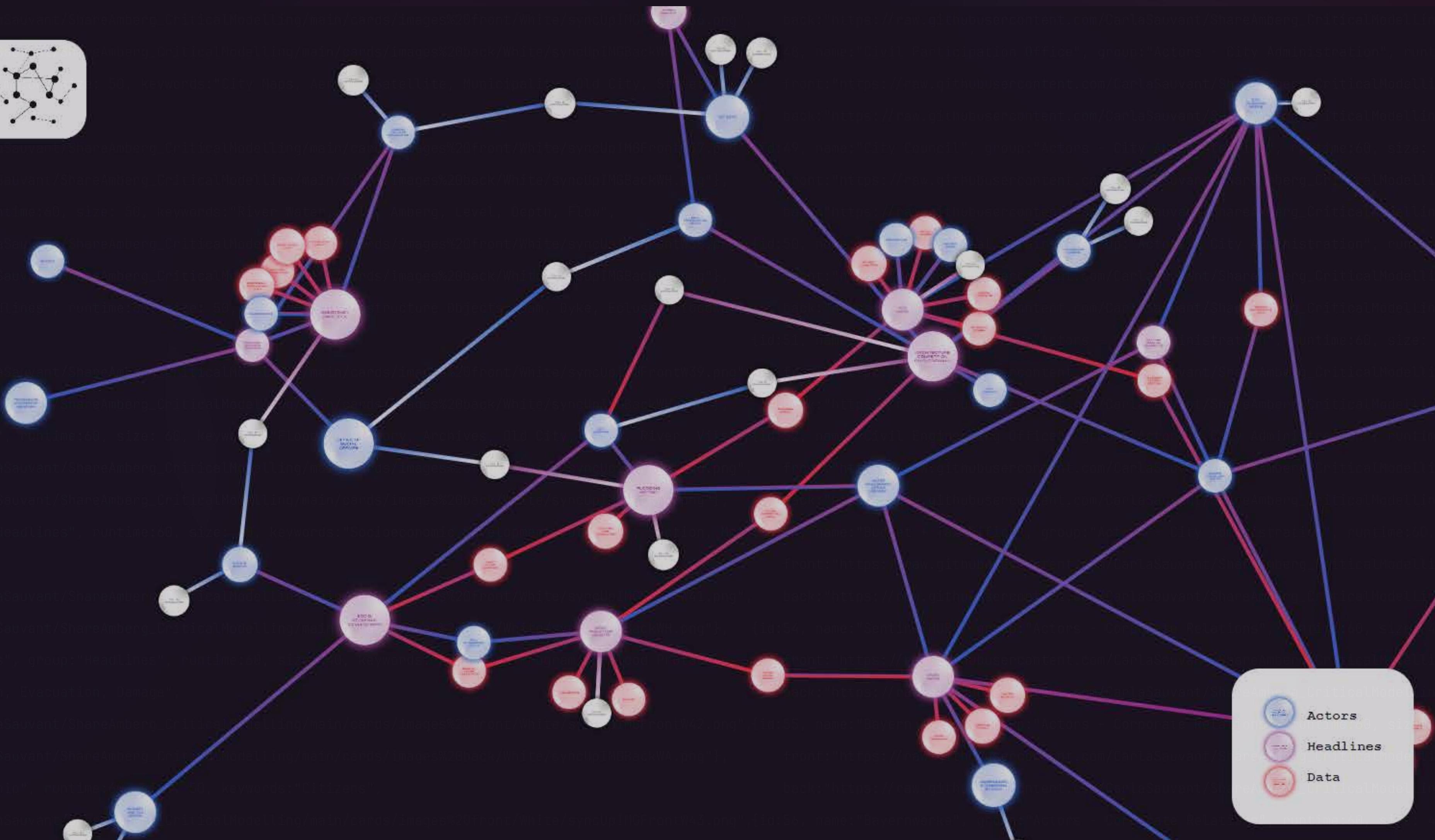
TECHNICAL PROCESS WEBSITE STRUCTURE - HTML & CSS

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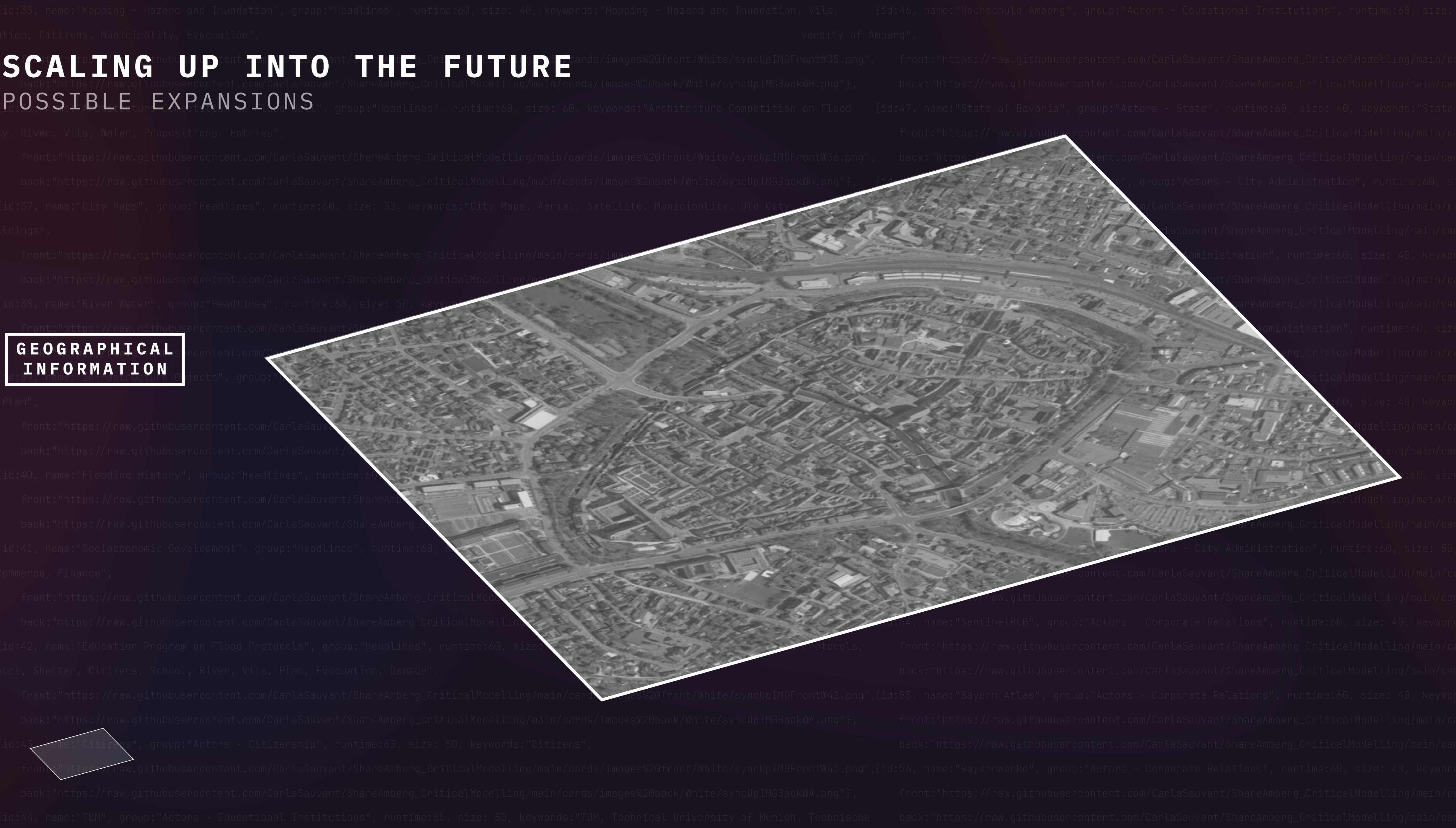
ADD TO DATABASE
FREE EXPLORE
SEARCH

◀ back to intro page



SCALING UP INTO THE FUTURE

2050



SCALING UP INTO THE FUTURE POSSIBLE EXPANSIONS

GEOGRAPHICAL
INFORMATION



{id:35, name:"Mapping - Hazard and Inundation", group:"Headlines", runtime:60, size: 40, keywords:"Mapping - Hazard and Inundation, Vils, Evacuation, Citizens, Municipality, Evacuation", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW35.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:36, name:"Architecture Competition on Flood Wall", group:"Headlines", runtime:60, size: 60, keywords:"Architecture Competition on Flood Old City, River, Vils, Water, Propositions, Entries", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW36.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:37, name:"City Maps", group:"Headlines", runtime:60, size: 50, keywords:"City Maps, Aerial, Satellite, Municipality, Old City Streets, Buildings", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW37.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:38, name:"River Water", group:"Headlines", runtime:60, size: 50, keywords:"River Water, Vils, Amberg, Old City, Town Hall", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW38.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:39, name:"Infrastructure Objects", group:"Headlines", runtime:60, size: 40, keywords:"Infrastructure Objects, Roads, Electricity, Water, Gas, Sewer", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW39.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:40, name:"Flooding History", group:"Headlines", runtime:60, size: 40, keywords:"Flooding History, Amberg", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW40.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:41, name:"Socioeconomic Development", group:"Headlines", runtime:60, size: 40, keywords:"Socioeconomic Development, City Sector, Population, Commerce, Finance", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW41.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:42, name:"Education Program on Flood Protocols", group:"Headlines", runtime:60, size: 40, keywords:"Education Program on Flood Protocols, Protocol, Shelter, Citizens, School, River, Vils, Plan, Evacuation, Damage", front:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20front/White/syncUpIMGFrontW42.png", back:"https://raw.githubusercontent.com/CarlaSauvant/ShareAmberg_CriticalModelling/main/cards/images%20back/White/syncUpIMGBackWH.png"}, {id:43, name:"Citizens", group:"Actors - 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SCALING UP INTO THE FUTURE POSSIBLE EXPANSIONS

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IoT DATA INFORMATION

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SCALING UP INTO THE FUTURE

POSSIBLE EXPANSIONS

SOLAR INFORMATION

{id:35, name:"Mapping - Hazard and Inundation", group:"Headlines", runtime:60, size: 40, keywords:"Mapping - Hazard and Inundation, Vils, Evacuation, Citizens, Municipality, Evacuation",

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SCALING UP INTO THE FUTURE POSSIBLE EXPANSIONS

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{id:52, name:"Budget + Tax Office", group:"Actors - City Administration", runtime:60, size: 50, keywords:"Budget",

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{id:53, name:"SentinelHUB", group:"Actors - Corporate Relations", runtime:60, size: 40, keywords:"Sentinel",

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{id:54, name:"Bayern Atlas", group:"Actors - Corporate Relations", runtime:60, size: 40, keywords:"Atlas",

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{id:55, name:"Bayernwerke", group:"Actors - Corporate Relations", runtime:60, size: 40, keywords:"Bayernwerke",

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OTHER LAYERS...

SCALING UP INTO THE FUTURE

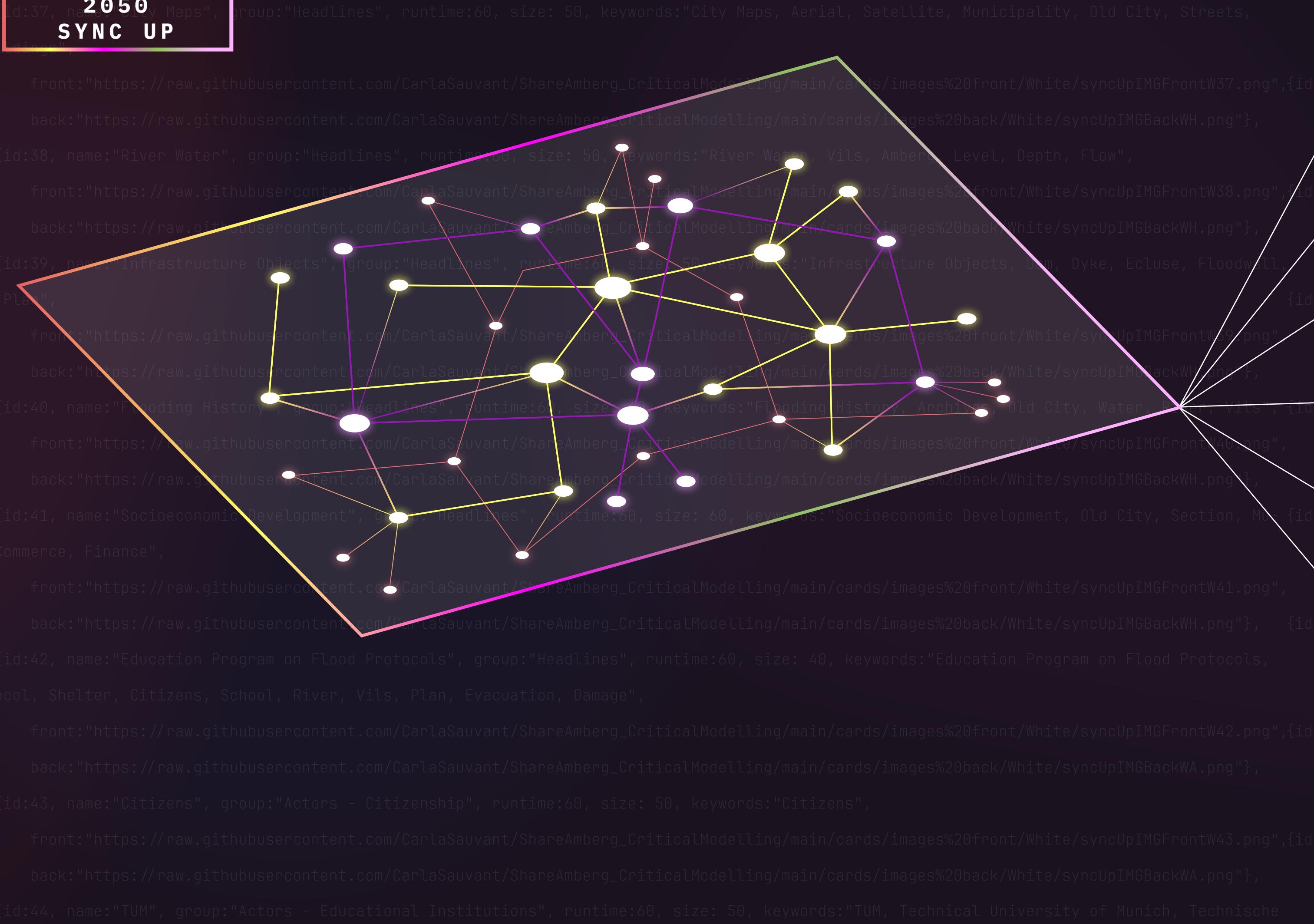
POSSIBLE EXPANSIONS

2050
YNC UP

{id:35, name:"Mapping - Hazard and Inundation", group:"Headlines", runtime:60, size: 40, keywords:"Mapping - Hazard and Inundation, Vils, r, Evacuation, Citizens, Municipality, Evacuation",

SCALING UP INTO THE FUTURE A NETWORK OF NETWORKS

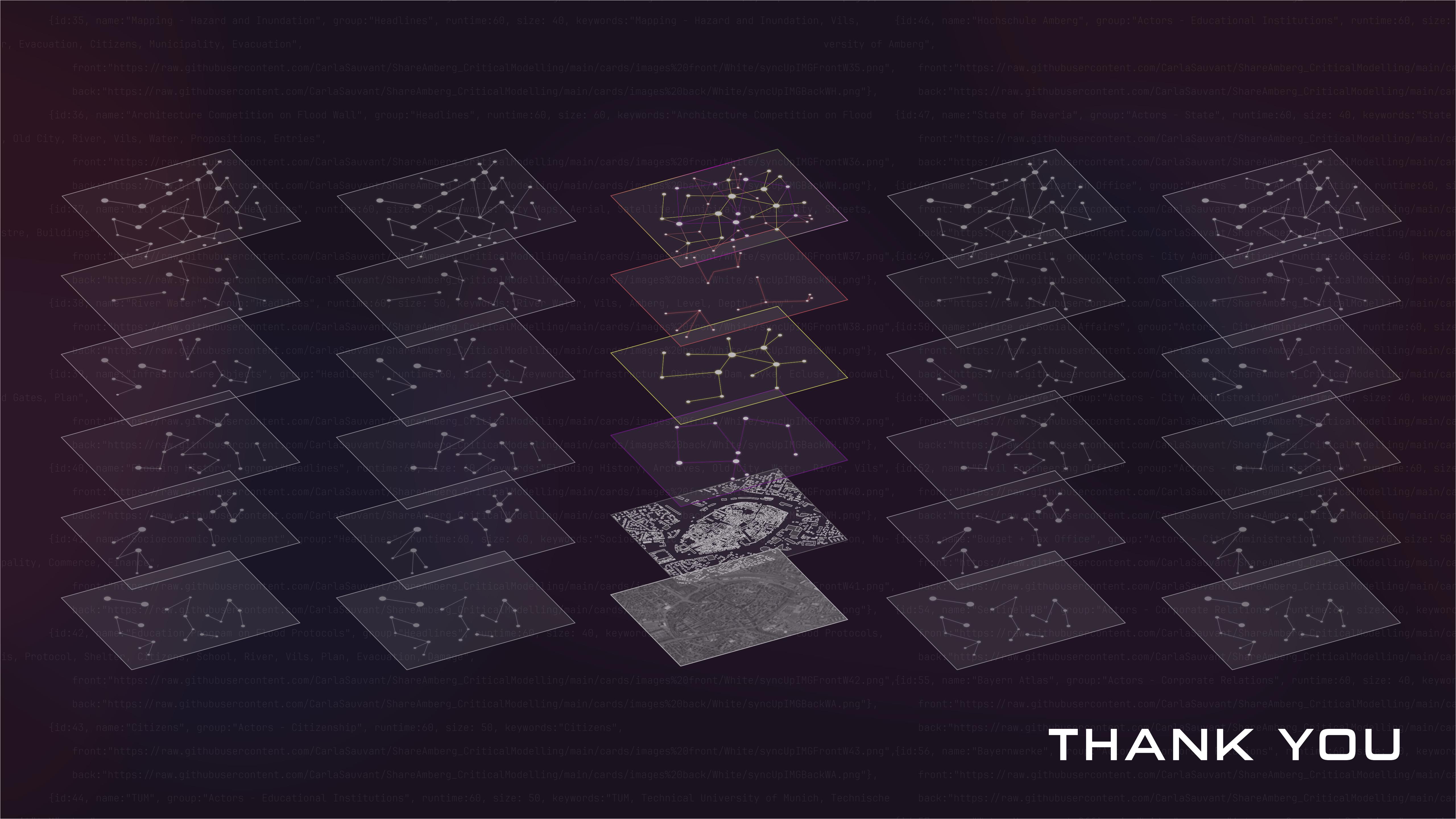
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SYNC UP



{id:46, name:"Hochschule Amberg", group:"Actors - Educational Institutions", runtime:60, size: 40, keywords:"University of Amberg",

STATE OF BAVARIA DATABASE





THANK YOU