Counter-Militarisation Mapping

Reframing Conflict in Sudan through Civic Visual Tools

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Supervisor: Barbara June

Counter-Militarisation Mapping Project, a digital counter-mapping initiative that challenges state and media narratives of the Sudan conflict by recentering civilian-led humanitarian efforts. Combining participatory action research with critical cartography, the project employs an open-source, interactive web map to document Emergency Response Rooms (ERRs) and hospitals in Khartoum, transforming quantitative data into a spatial narrative of solidarity
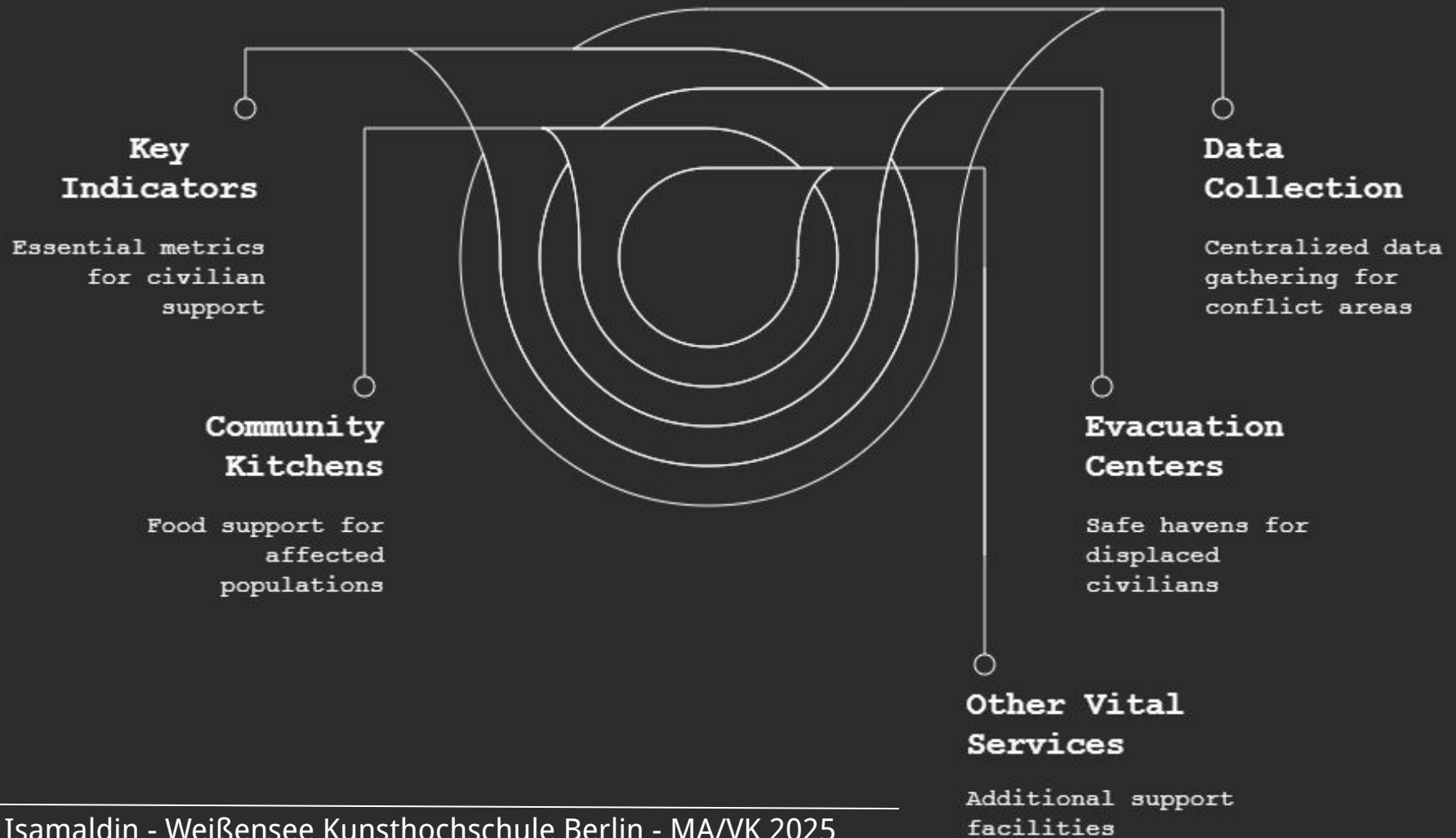
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Research Question

What does it mean to map conflict through a civilian lens?
How can visual cartography support resistance and survival?

Goals

- Amplifies efforts of Emergency Response Rooms
- Offers real-time data visibility to citizens and allies
- Resists erasure through accessible digital archiving

Telling Data - Stories of Every Day

Key Indicators

Essential metrics for civilian support

Community Kitchens

Food support for affected populations

Data Collection

Centralized data gathering for conflict areas

Evacuation Centers

Safe havens for displaced civilians

Other Vital Services

Additional support facilities

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No	Base_ERR	District	...ilation	GeoLocation	Controlled_By	ArabicName	Discription
1.11.	AlLamab, AlRemila and Alrifa Aljadeeda	Khartoum		15.5740356991885553, 32.5070887686481	SAF	الرميلة والحفة الجديدة	JTell West ERR, Jabra ERR, Buri ERR, Tutti ERR, Arkaweet ERR, Al-Taif ERR, Al-Mamoura ERR, Al...
2.1	Ganoub AlHizam	Jabel Awlia		15.476114, 32.555711	RSF	جنوب الحزام	The district of Jabel Awlia consists of 16 administrative units. Jabel Awlia ERR works through re... Jabel Awlia ERR has two public hospitals and 10 base ERRs divided into three Sectors: Janob Al...
2.2	AlKalakla	Jabel Awlia		15.464800, 32.488175	RSF	الكلاكلة	The district of Jabel Awlia consists of 16 administrative units. Jabel Awlia ERR works through re... Jabel Awlia ERR has two public hospitals and 10 base ERRs divided into three Sectors: Janob Al...
2.3	Al Jabal	Jabel Awlia		15.241385, 32.517260	RSF	الجبل	The district of Jabel Awlia consists of 16 administrative units. Jabel Awlia ERR works through re... Jabel Awlia ERR has two public hospitals and 10 base ERRs divided into three Sectors: Janob Al...
3.1	AlThawra East	Karari		15.719244, 32.495682	SAF	الثورة شرق	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.2	AlThawra West	Karari		15.704206, 32.448132	SAF	الثورة غرب	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.3	Karrari East	Karari		16.094994, 32.519649	SAF	كرري شرق	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.4	Karrari Middle	Karari		16.123361, 32.390216	SAF	كرري وسط	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.5	Karrari North	Karari		16.293474, 32.460941	SAF	كرري شمال	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.6	Karrari West	Karari		16.135399, 32.120708	SAF	كرري غرب	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.7	AlFath West & East	Karari		15.916065, 32.327566	SAF	الفتح شرق غرب	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.8	AlRief AlShamali South & North	Karari		15.650894, 32.480586	SAF	الريف الشمالي	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
3.9	AlMantiga AlSinaia	Karari		15.726939, 32.477099	SAF	المنطقة الصناعية	The district of Karari consists of 12 administrative units. Karari ERR works through one central ... Karari ERR has one central room with 10 base rooms, 2 major hospitals and 3 rural hospitals.
							In these difficult times in the history of Sudan and in view of the situation of the district in part...

Data Pipeline (Python)

- Google Sheets as dynamic database
- Python (Flask + Google API) fetches hospital + ERR layers
- Exports structured JSON to be used by Leaflet frontend

Technical Architecture

Browser
Leaflet.js
Mapbox tiles

Google Sheets

Flask
Server
Gaddy
Gunicorn

{ JSON
data }

Programming language :
Python - Javascript - CSS -
HTML

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{"BaseERR":[{"ArabicName":"\u0627\u0631\u0643\u0648\u064a\u062a \u0648 \u0648\u0627\u0644\u0645\u0639\u0645\u0648\u0631\u0629","Discription":"The district of Khartoum Locality consists of 15 administrative units. facilitated by the Khartoum State Emergency Response Room (ERR) and executed by Khartoum ERR. Khartoum ERR has 10 active ERRs organized by administrative units the ERRs are :\nJreif West ERR, Jabra ERR, Buri ERR, Tutti ERR, Arkaweet ERR, Al-Taif ERR, Al-Mamoura ERR, Al-Diyum ERR, and Al-Azuzab ERR, and Soba ERR and they coordinate through the following offices: health, services, food, women response room, census and media. However, due to escalating security challenges, some ERRs ceased operations, while others are currently undergoing reorganization. Notably remained operational during the reported period: Arkaweet & Almaoura, AlTaif, Al Shagara, Jabra, and West Jiraif. The continued dedication of these ERRs underscores their resilience in delivering aid amid evolving circumstance","ServedPopulation":"6360","baseerr":"Arkaweet and AlMamora","childrencenters":"1","clinics":"2","controlledby":"RSF","district":"Khartoum","evacuationcenters":"0","geolocation":"15.544777, 32.572209","hosptials":"0","kitchens":"8","no":"1.1","photos":"https://i.ibb.co/tJTTf9d/Arkaweet.jpg","pots":"6","region":"Arkaweet","rooms":"2","volunteers":"50","womencoops":"15","womenrestrooms":"3"},{"ArabicName":"\u0627\u0644\u0631\u064a\u0627\u0636 \u0648 \u0627\u0644\u0637\u0627\u0626\u0641 ","Discription":"The district of Khartoum Locality consists of 15 administrative units. facilitated by the Khartoum State Emergency Response Room (ERR) and executed by Khartoum ERR. 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The continued dedication of these ERRs underscores their resilience in delivering aid amid evolving circumstance","ServedPopulation":"6000","baseerr":"AlTaif and Riyad","childrencenters":"0","clinics":"0","controlledby":"RSF","district":"Khartoum","evacuationcenters":"0","geolocation":"15.571602, 32.569491","hosptials":"0","kitchens":"1","no":"1.2","photos":"https://i.ibb.co/bNmfkCv/Alshagra.jpg","pots":"2","region":"AlTaif and Riyad","rooms":"2","volunteers":"19","womencoops":"1","womenrestrooms":"0"},{"ArabicName":"\u0627\u0644\u0634\u062c\u0631\u0629 \u0627\u0644\u0644\u0627\u0645\u0627\u0628 \u0648\u0627\u0644\u0639\u0632\u0648\u0632\u0627\u0628 ","Discription":"The district of Khartoum Locality consists of 15 administrative units. facilitated by the Khartoum State Emergency Response Room (ERR) and executed by Khartoum ERR. 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The continued dedication of these ERRs underscores their resilience in delivering aid amid evolving circumstance","ServedPopulation":"0","baseerr":"AlShajara, Lamab and Ozozab","childrencenters":"2","clinics":"1","controlledby":"SAF","district":"Khartoum","evacuationcenters":"0","geolocation":"15.539331, 32.495148","hosptials":"0","kitchens":"0","no":"1.3","photos":"https://i.ibb.co/bNmfkCv/Alshagra.jpg","pots":"2","region":"AlShajara","rooms":"3","volunteers":"35","womencoops":"1","womenrestrooms":"1"},{"ArabicName":"\u062c\u0628\u0631\u0629","Discription":"The district of Khartoum Locality consists of 15 administrative units. facilitated by the Khartoum State Emergency Response Room (ERR) and executed by Khartoum ERR. 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The continued dedication of these ERRs underscores their resilience in delivering aid amid evolving circumstance","ServedPopulation":"1320","baseerr":"Jabra","childrencenters":"1","clinics":"1","controlledby":"RSF","district":"Khartoum","evacuationcenters":"0","geolocation":"15.525791, 32.516562","hosptials":"0","kitchens":"6","no":"1.4","photos":"https://i.ibb.co/xXC861N/Jabra.jpg","pots":"0","region":"Jabra","rooms":"1","volunteers":"0","womencoops":"0","womenrestrooms":"0"},{"ArabicName":"\u0627\u0644\u062c\u0631\u064a\u0641 \u063a\u0631\u0628","Discription":"The district of Khartoum Locality consists of 15 administrative units. facilitated by the Khartoum State Emergency Response Room (ERR) and executed by Khartoum ERR. 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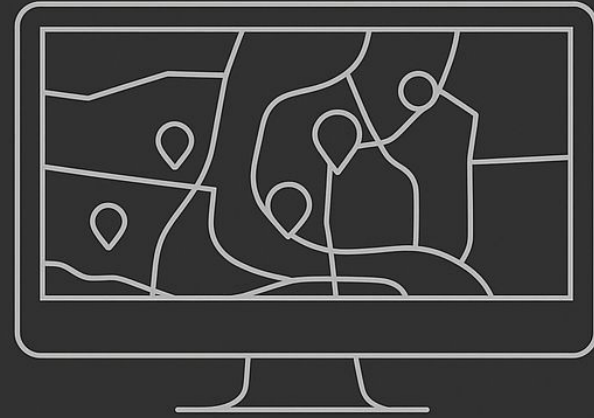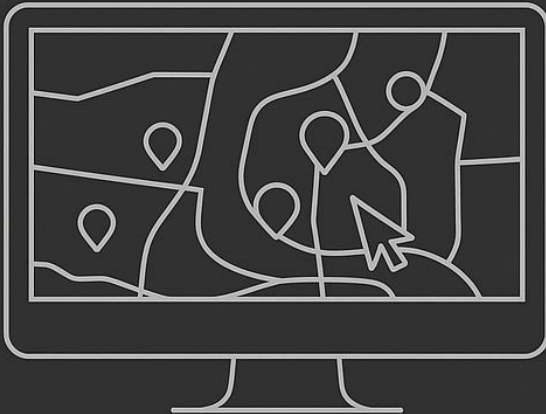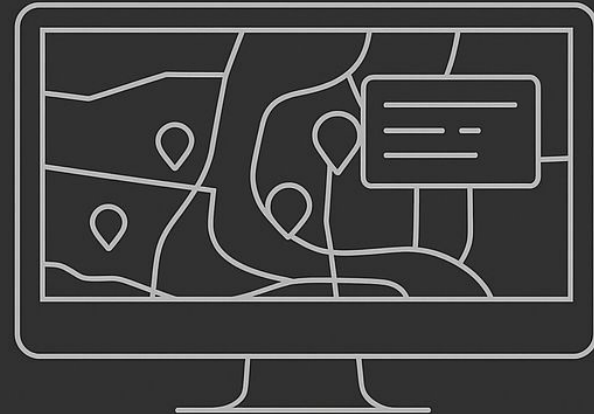Supervisor: Barbara June

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Storyboard

User loads the page

Map is displayed on the screen

User clicks on a marker

Popup with information appears

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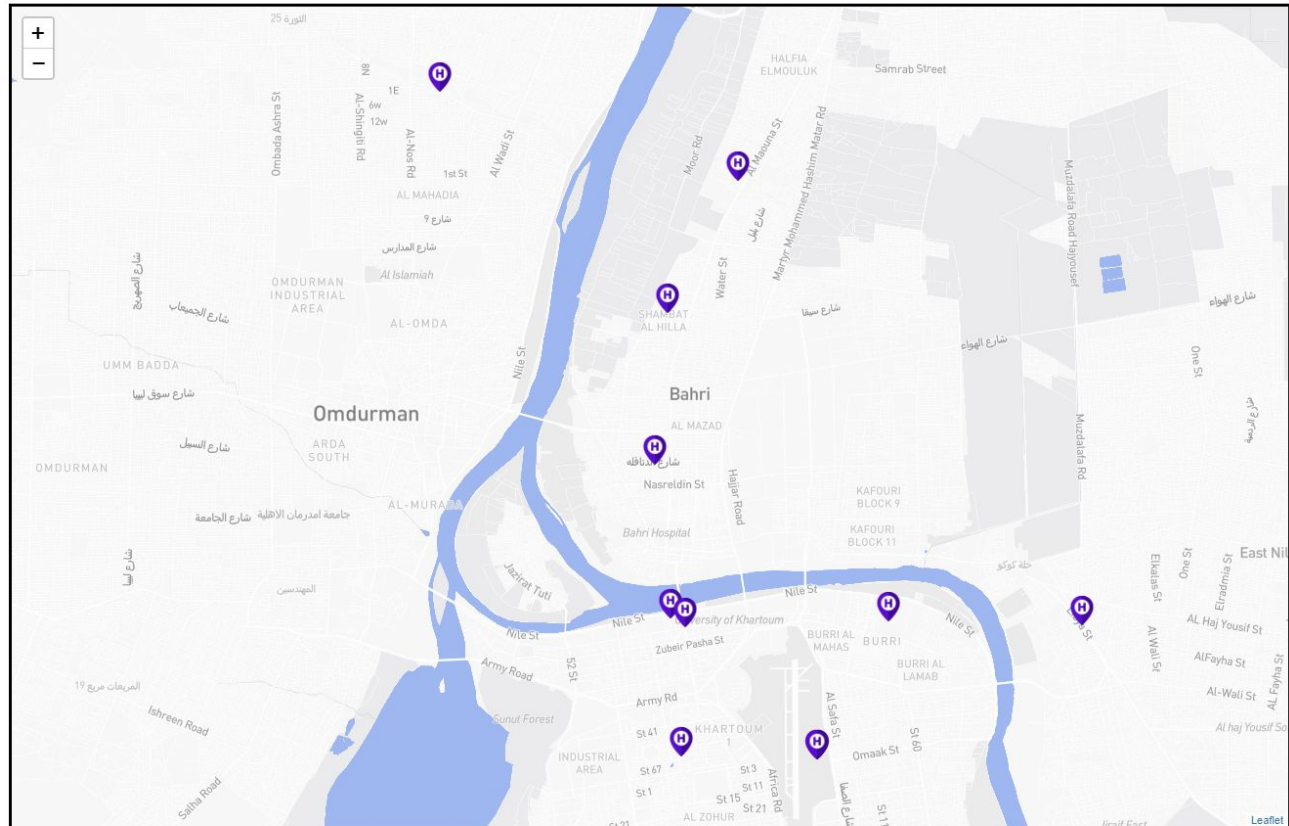
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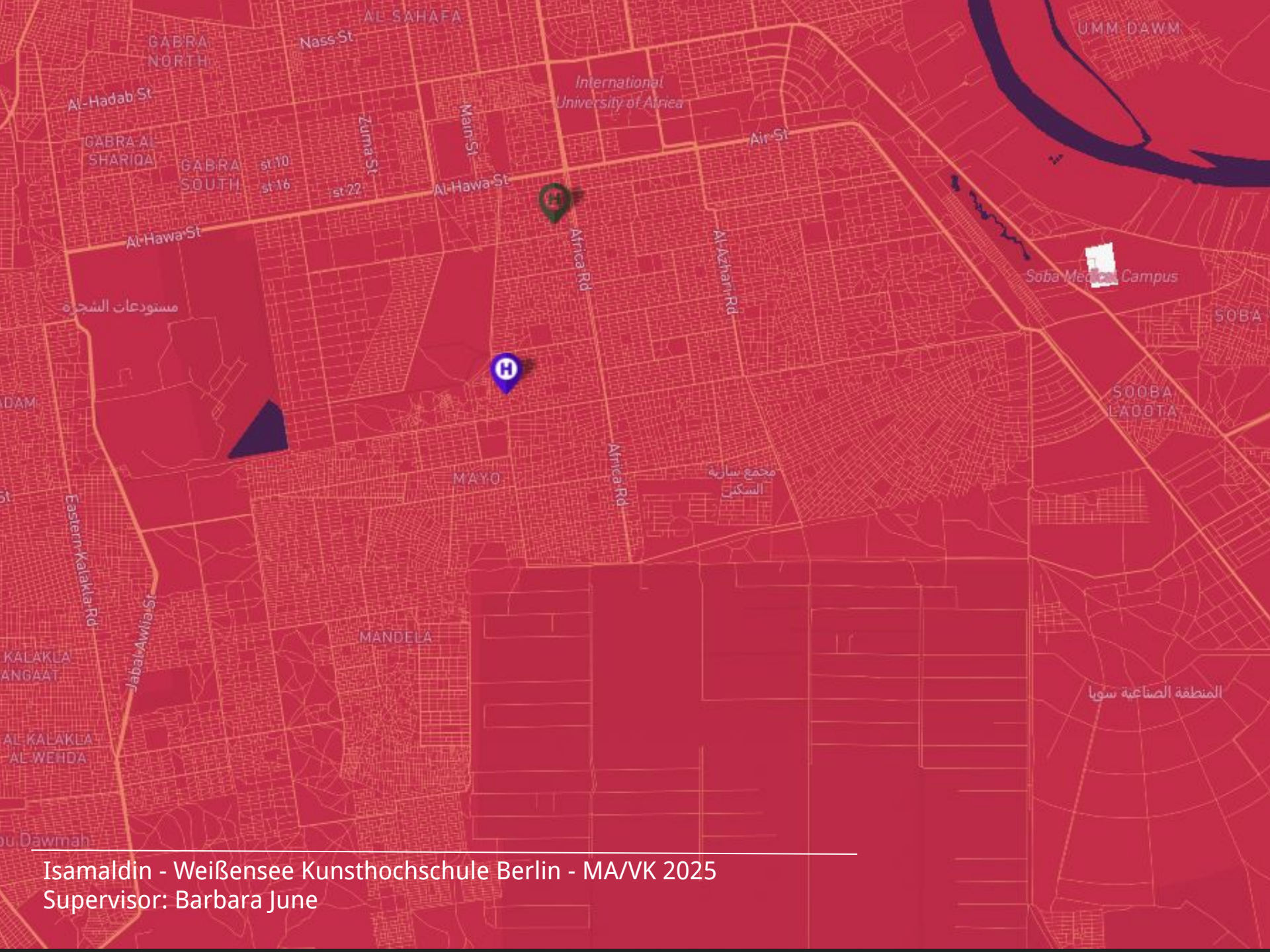Isamaldin - Weißensee Kunsthochschule Berlin - MA/VK 2025
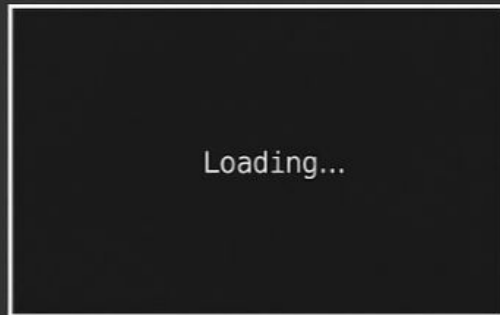Supervisor: Barbara June
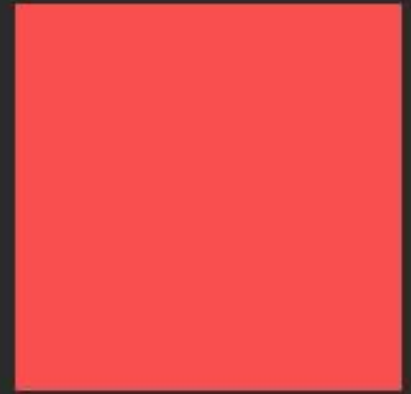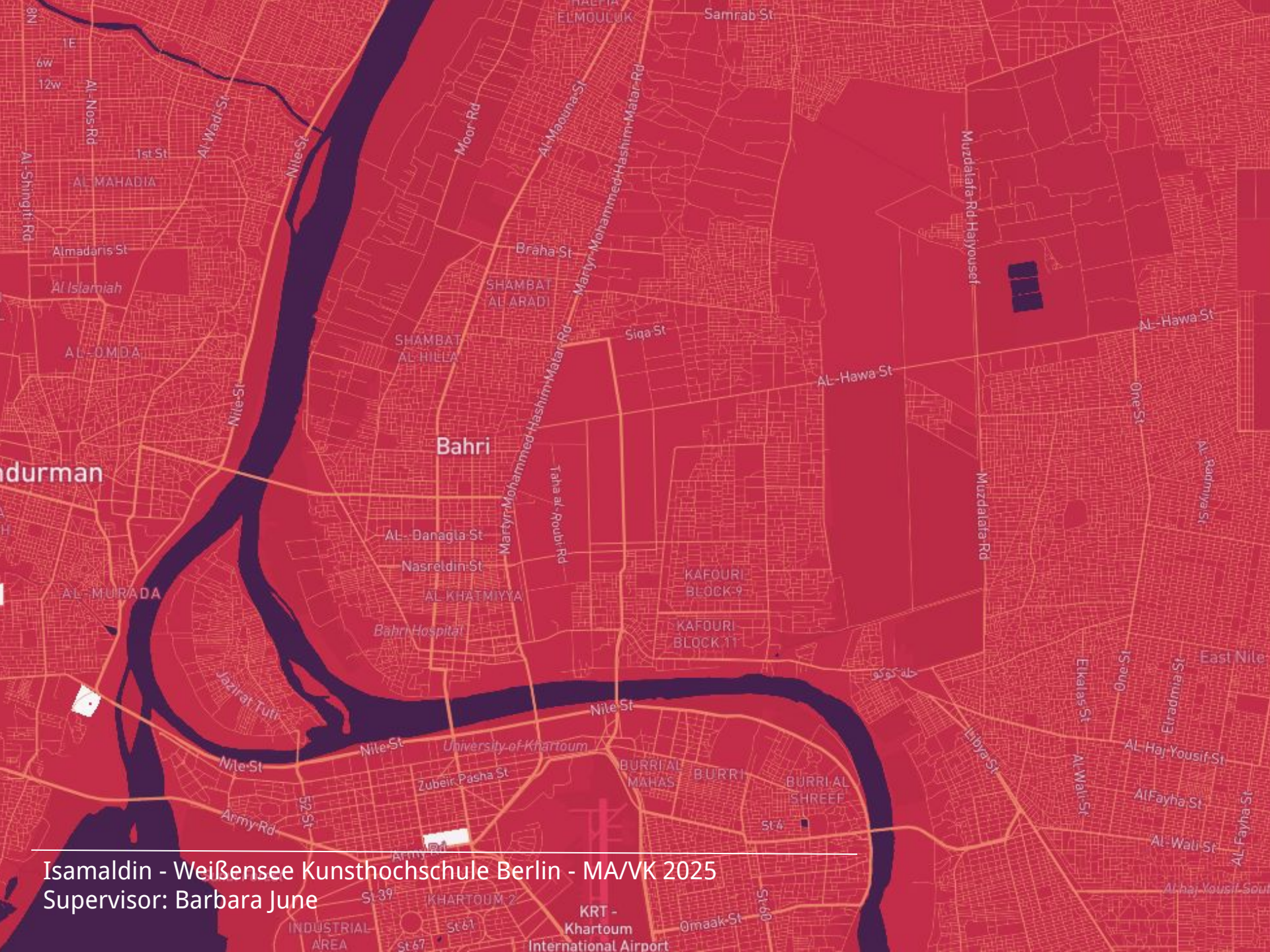
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Landing on the Map

Loading...

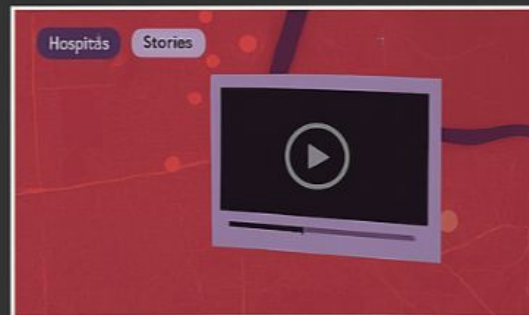Leaflet.js

Interface Reveal

Leflet.js, Mapbox tiles

Activating ERR Layer
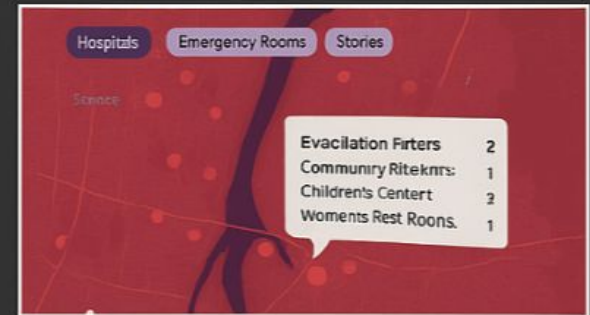
Google Sheets → Flask → JSON

Inspecting an ERR

Inspecting an ERR
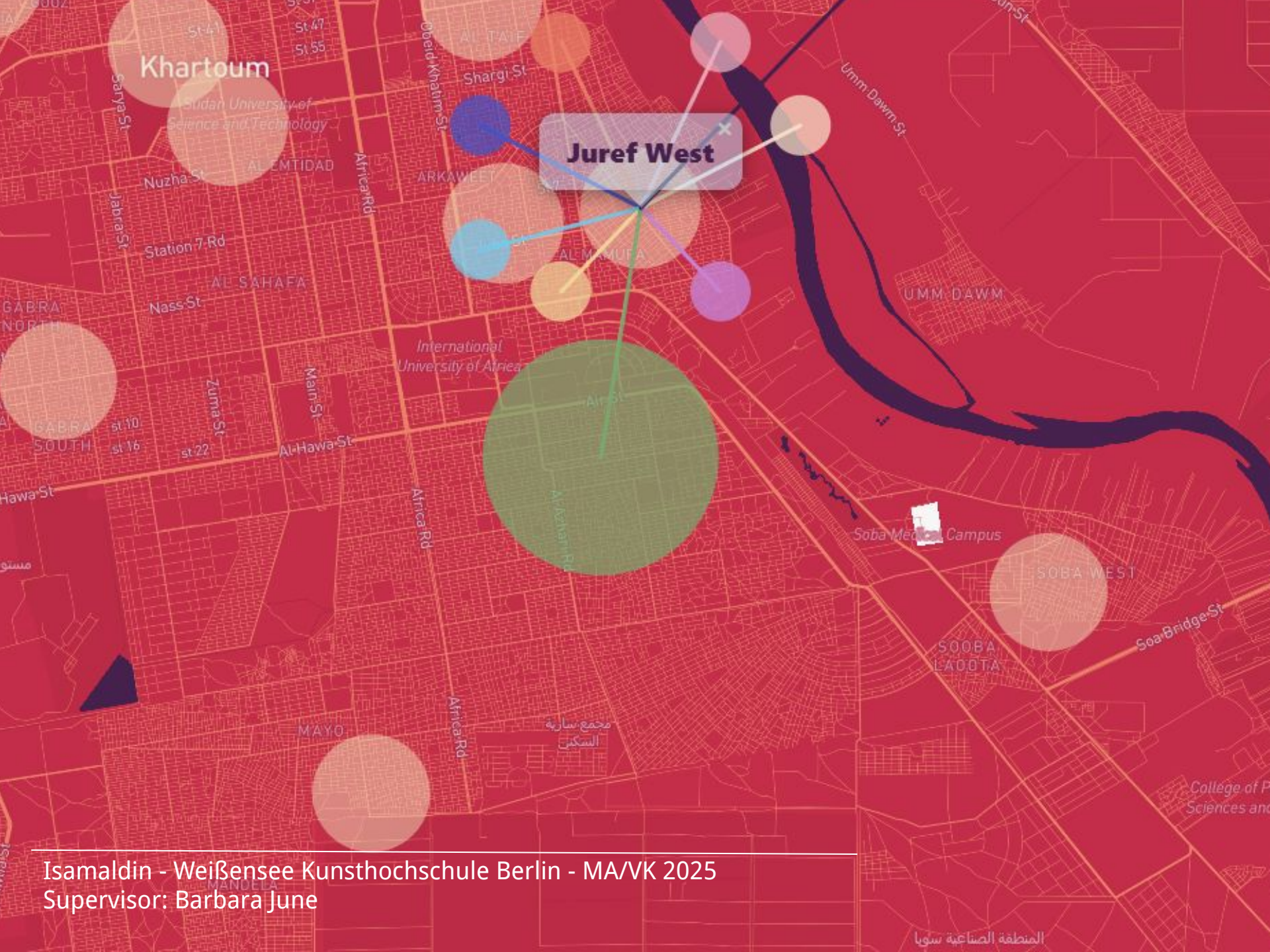Droid Sans

Playing a Story

Embedded video
(via Leaflet popup)

Mobile View/Responsiveness
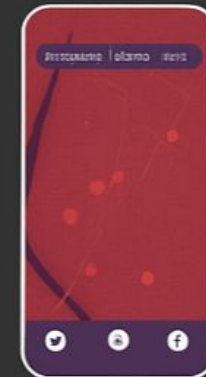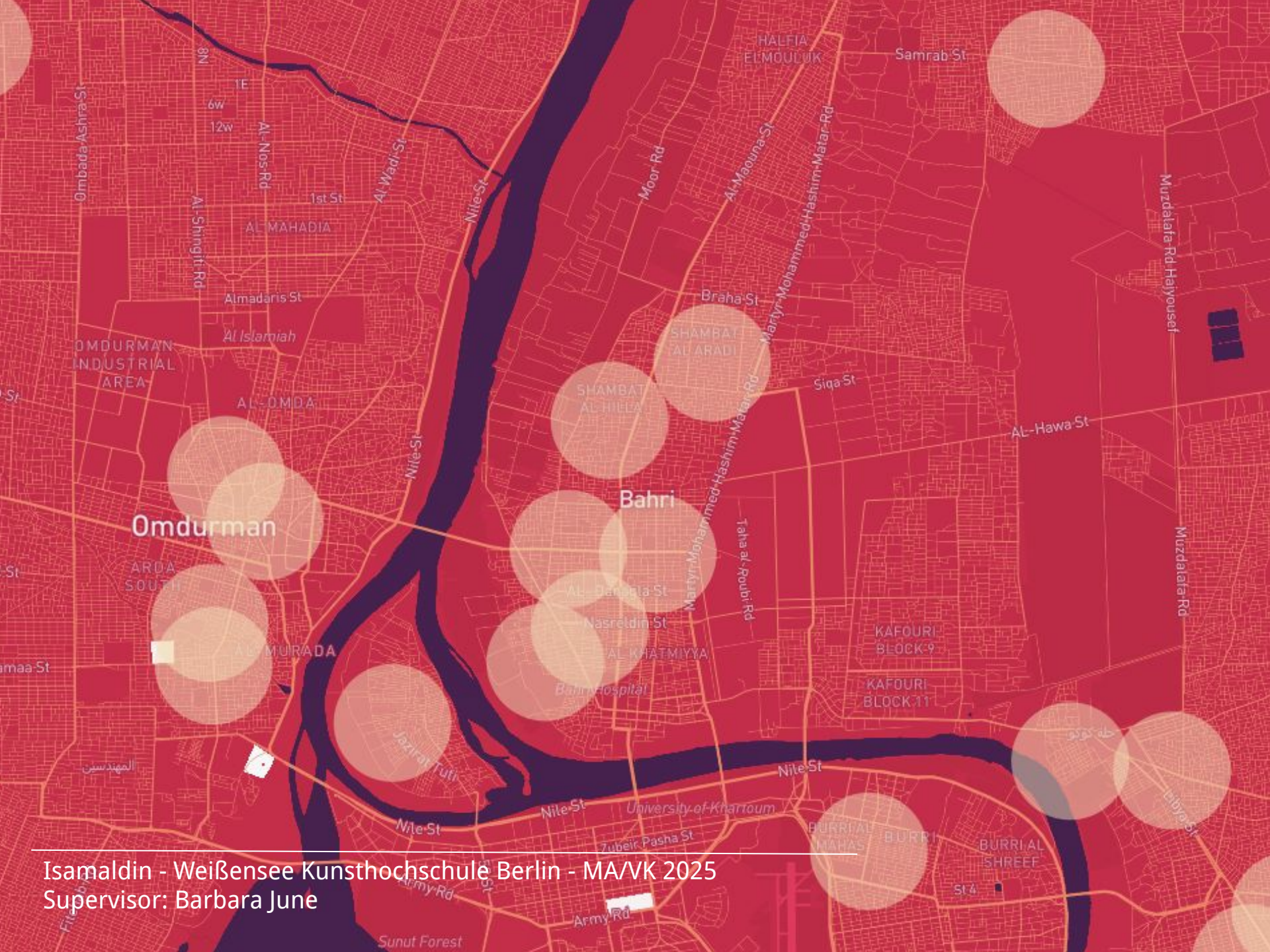
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Khartoum Civic Map

Khartoum CIVIC MAP خريطة الخرطوم المدنية

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Challenges & Future

- Mobile-first optimization
- Conflict heat map layers
- Anonymous story integration
- Academic and policy collaboration

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