

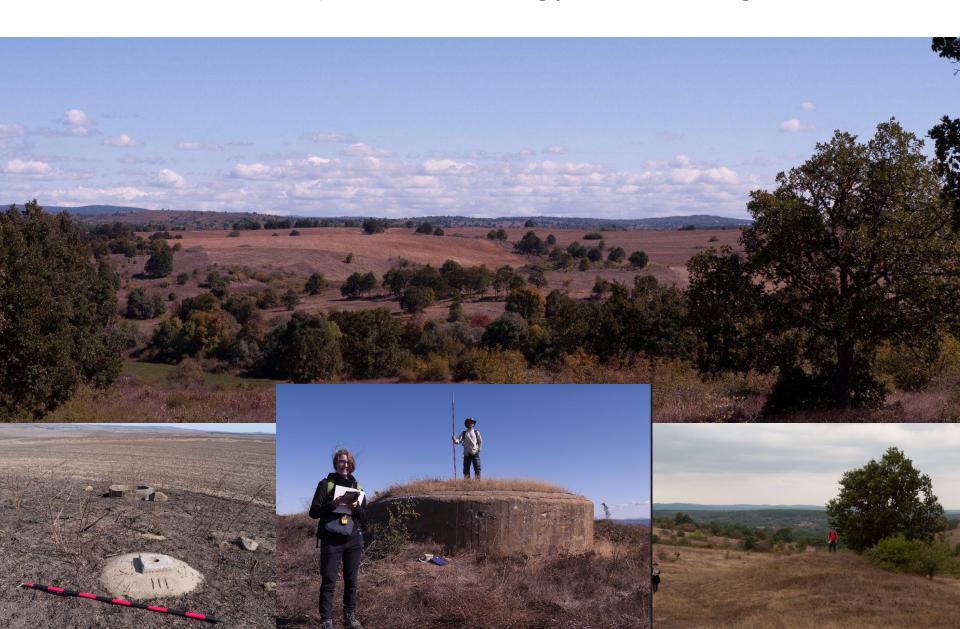
# MELICA: Modeling Everyday Life In Cold-War Aarhus

Adela Sobotkova & Rosanna Farbøl 28 November 2023

# The Origins



## Cold-War landscape archaeology in SE Bulgaria



### 2012 - 2022: FAIMS Mobile 2.6

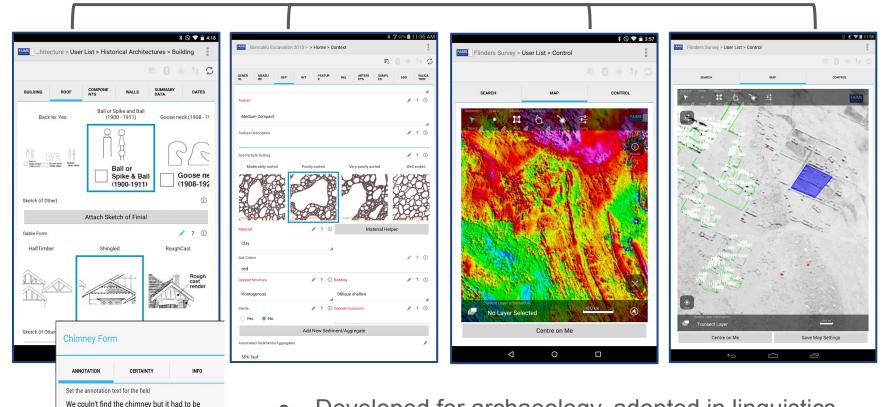




- Open-source, generalized system for offline field data collection
- github.com/FAIMS/faims-web
- github.com/FAIMS/faims-android

# Generalized for Fieldwork Across Disciplines

**FAIMS Codebase** 



there somewhere. Needs revisit.

Cancel

- Developed for archaeology, adopted in linguistics, history, ecology and geochemistry
- Customizable == needs to be customized

#### Full Mobile GIS offline

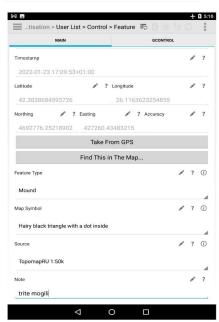












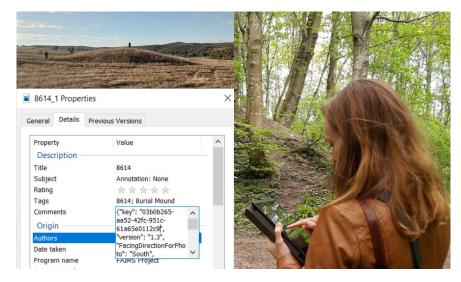
- Legacy raster and vector loading and rendering (spatialite+nutiteq)
- Creation and editing of spatial, structured, free data with multimedia
- E.g. <a href="https://github.com/faims/burial">https://github.com/faims/burial</a>

## FAIR spatial data in the Field



- F1: Unique identifiers & human alias
- F2: Project and record-level metadata
- A: mediated access
- I: Ontologies? Standards!
- R: Rich metadata and licensing





uuid	identifier	createdBy	createdAt0
1000021682767059876	200-{Shelter_Type_II}	Adela Sobotkova	2023-04-29T11:
1000021682768373348	201-{Other}	Adela Sobotkova	2023-04-29T11:4
1000021682768548507	202-{Other}	Adela Sobotkova	2023-04-29T11:4
1000021682768679366	203-{Other}	Adela Sobotkova	2023-04-29T11:4
1000021682768821236	204-{Other}	Adela Sobotkova	2023-04-29T11:4
1000021682768903677	205-{Other}	Adela Sobotkova	2023-04-29T11:4
1000021682768988689	206-{Other}	Adela Sobotkova	2023-04-29T11:4
1000021682769863447	207-{Shelter_Type_III}	Adela Sobotkova	2023-04-29T12:
1000021682770716813	208-{Shelter_Type_III}	Adela Sobotkova	2023-04-29T12:

Will this Module contain sensitive data?









### 2023-2024 FAIMS3



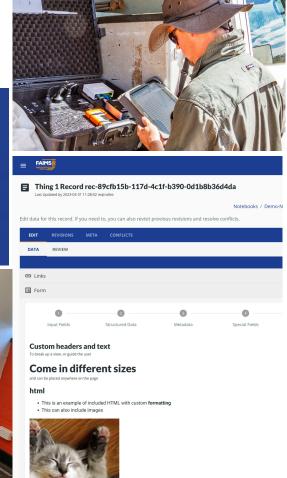
Now also with a Graphic User Interface

### **FAIMS 3.0 Electronic Field Notebooks**

The FAIMS 3.0 Project is building the next generation of Electronic Field Notebooks. Join us on the journey.

SIGN IN

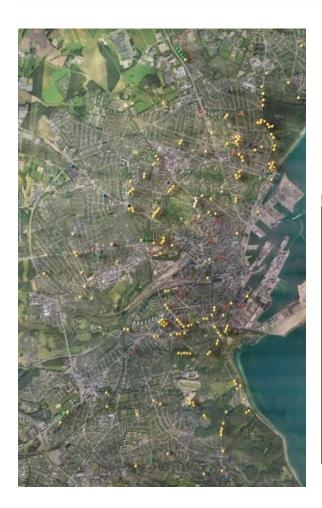




## 2022 - 2023 Pilot Project

SHAPING SHAPING DIGITAL CITIZENSHIP

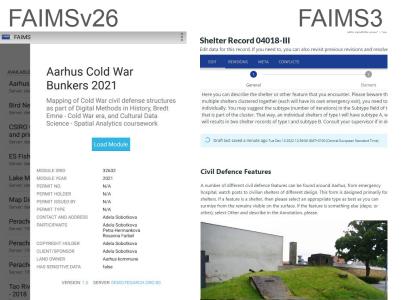
Testing Democracy from the Bottom-Up: Plan and Reality of Civil Defense in Cold-War Aarhus



Developing and testing field-data capture systems

#### Sources:

- List of addresses
- Photo of a map with pins!





https://github.com/FAIMS/Aarhus-shelters-faims-2.6

## Shelter monitoring April 2023





- Map and document visible shelters' condition, accessibility, and present use
- Offline app essential; people take lots of photos!





## FAIMS: Rich and integrated spatial data

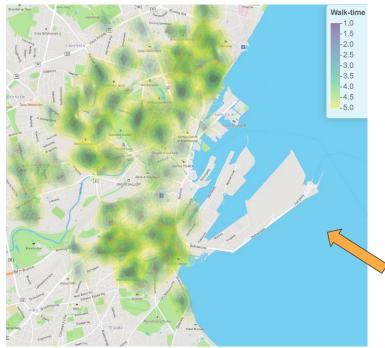
Is analysis-ready!

Spatial formats (csv, kml, shp, geojson) Shiny

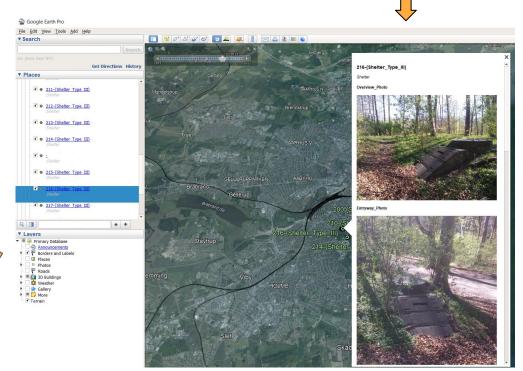
 Multimedia, structured data and annotations written across these files







Walker K (2023). *mapboxapi: R Interface to 'Mapbox' Web Services*. R package version 0.5.3.



## Moving to "Where's the nearest shelter?" app

**April 2021** developing "Bunker app" for data capture student activities in Spatial Analytics

March 2022: responding to a colleague's request

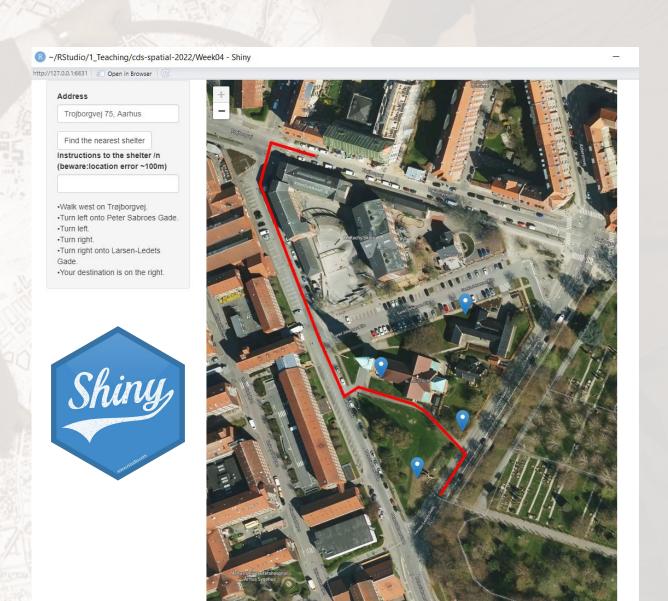
Meanwhile, I just cannot stop thinking your bunker app that you did last year as I have read this news:

https://cphpost.dk/?p=131669

Can you tell me the nearest bunker to my house? I am on Trojborgvej 72.



## MELICA: The Birth of Digital History Project



### **MELICA:** The Plan

#### We start in 2024

Year 1: digital archive creation, field data capture, data streamlining and enrichment

Year 2: textual and spatial analysis

Year 3: simulation and dissemination

Time and Activity Plan	Year 1	Year 2	Year 3
WP1:Digital Archive Creation			
WP2:Field Data Collection			
WP3:Text and Spatial Analysis			
WP4:Evacuation Simulation			
WP5:Outreach and Dissemination			

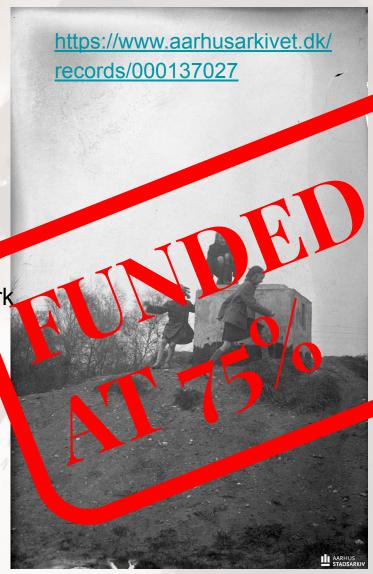


## **MELICA:** Research Objectives

1: Reconstruct the everyday experience of individuals living in Cold-War Aarhus: a militarization of everyday life or 'normalization' of war?

2: Identify the gap between how Cold-War civil defense was conceptualized at the **national** level and delivered at the **local level** in Aarhus, Deni ark

3: Evaluate civil defense effectiveness by simulating a shelter drill in silico, identifying weak points and stakeholders in civil defense planning.

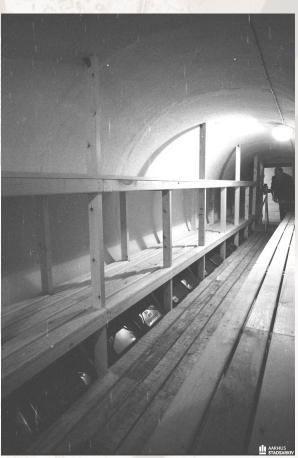




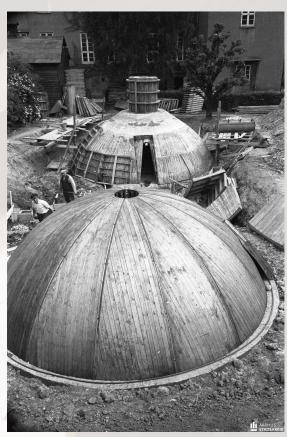
## Then



https://www.aarhusarkivet.dk/record s/000303780



https://www.aarhusarkivet.d k/records/000303778

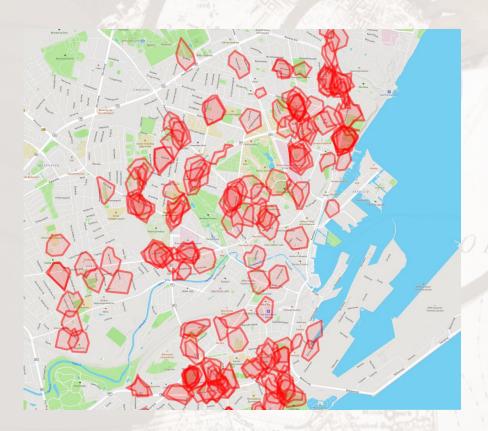


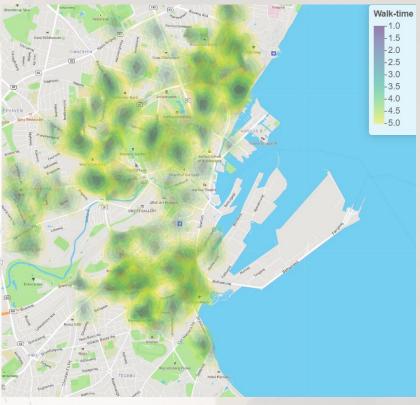
https://www.aarhusarkivet.dk /records/000303853



## What is the efficacy of this civil-defense network, really?

- How was the local civil-defense conceptualized and implemented? Who is protected? Who is left out?
- The friction between local geography and the national guidelines





## MELICA: Partners and participants

- Adela Sobotkova (AU)
- Rosanna Farbøl (AU/UiO)
- Iza Romanowska (CHCAA)
- Kristoffer Nielbo (CHCAA)
- Claus Juhl Knudsen (Aarhus Stadsarkiv)
- Thorbjørn Jørgensen (Østjyllands Brandvæsen)
- Tommy Cassøe (Dansk Koldkrigsforening)
- Magnus Nielsen (MA student)

#### Advisory board:

- Rosa Magnusdottir, U of Iceland
- Silvia Ziauddin, U of Zurich
- David C. Harvey, AU











## Thank you:)

#### Comments? Questions? Write to:

#### adela@cas.au.dk

#### rosanna.farboel@cas.au.dk

## Testing Democracy from the Bottom-Up: Plan and Reality of Civil Defense in Cold-War Aarhus

While in the past, city planners designing for civilian protection guesstimated the movement of people by looking at the distribution of places (churches, shops, schools, parks) in the maps, today we can use mobility statistics, 3D models and road networks to quantify the diurnal movement of people through the urban landscape and the accessibility of shelters. With the help of computer simulations and agent-based modeling (ABM) our project aims to assess the evacuation potential of the Aarhus shelters in order to evaluate how effective, even, and complete their coverage was with regard to 1970-80s population and building distribution. For example, we will design an agent-based model that will investigate the efficacy of the shelter system under different conditions, such as varied shelter readiness or the level of awareness among the general public about the shelter location. Agents will be asked to move to the nearest shelter they are aware of, enabling us to reconstruct what proportion of the population successfully reached protection and whether they were evenly distributed between locations. This way we can assess the utility of the shelter system and take into account the differences in population numbers and activity in the course of the day and different levels of awareness of evacuation procedures. Computer algorithms coupled with historical data will reveal how well the local implementation of civil defense matched the democratic and equitable ideal of the national strategy.

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