



# **A DIGITAL MAPPING OF THE MALAY PENINSULA: ISLAM, HINDU AND BUDDHIST PLACES OF WORSHIP**

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# Background

- A University of Malaya funded humanities project
- Main aim - to locate and map places of worship built in the Malay Peninsula before 1960.
- This presentation is part of a major project on constructing a digital cultural atlas featuring the location of mosques, Hindu and Buddhist temples

# Methodology

## 1. Data Collection Methods

- Sites - around the states of West Malaysia.
  - To obtain and verify GIS information
- Document analysis, interviews and oral history
- Fieldwork



مسجد جامع دارالامان

الورسٹر، قلعہ دارالامان





天福宮

雨

天



# Choo Chee Keong Temple Po





# Then Sze Temple Seremban



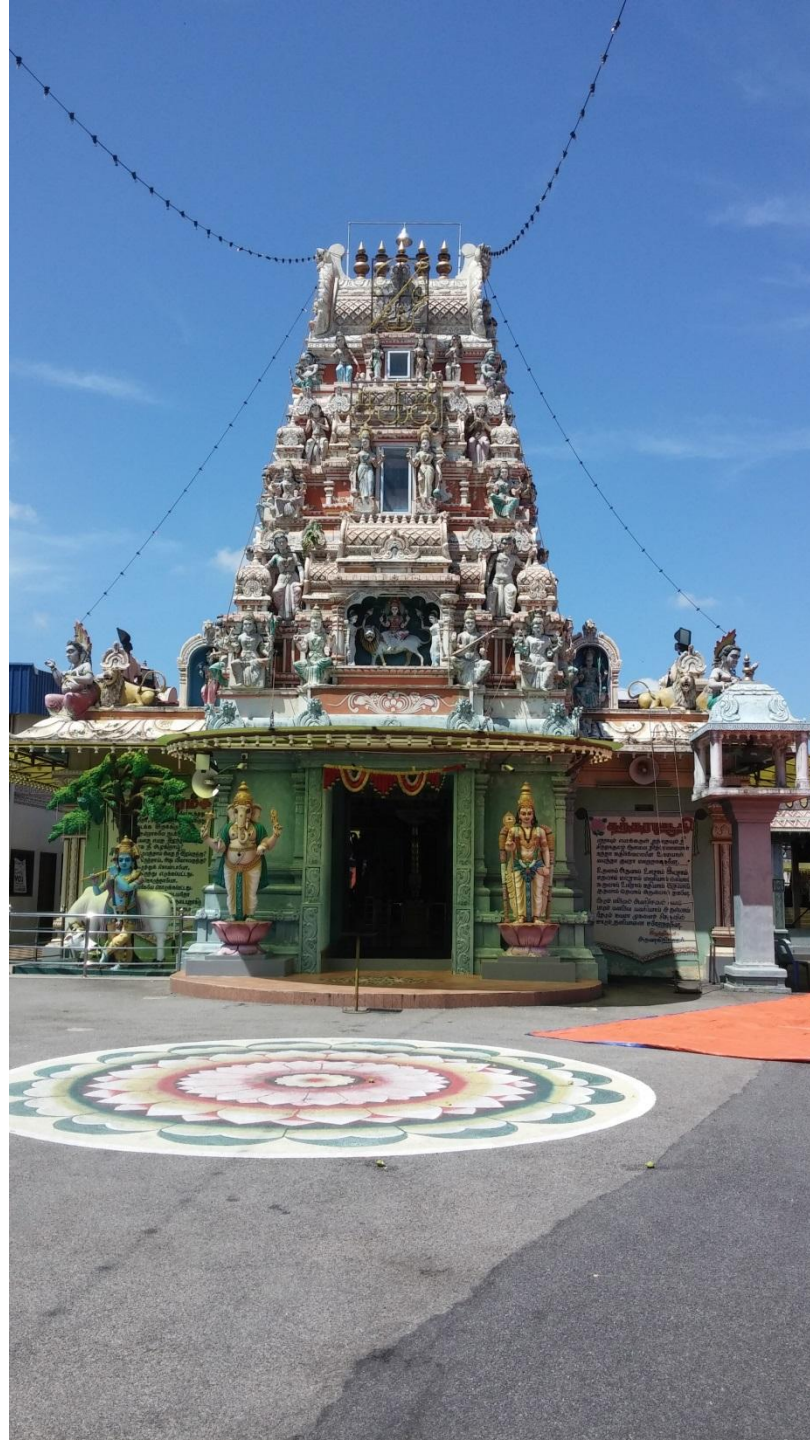


# Arulmugu Temple Jln Kebun Bunga





**Sri Nagara Thendayuthapani Bukit Jawa -Klang Selangor**



Sri  
Mahamarimaman  
Temple  
Taman Keladi  
Kedah



**Methodology**  
**Digital Mapping of Sites**

Cultural Mapping with Leaflet

- Open Source
- Easy to customise with CSS
  - Map style (10+ varieties of map style currently supported)
    - Information box display style
      - Information displayed
- No server side execution
  - Allows the map to be easily deployed on any website
- Maps can be used within student assignments and projects
- Information displayed can be multi-lingual
- Existing spreadsheet tool can be used to separate the information collection and editing

- ***leafletjs.com***
- An open source mapping toolkit
- Very lightweight
- Supports both Web and Mobile
  
- Can integrate with existing GIS systems
- Supports WMS for access to a rich variety of mapping data overlay (OpenWeathermap, OpenStreetmap)
- Supports a wide variety of map baselayers (Commercial and Open)
  - National specific maps (China, Korea, Europe)
- Extensive Plug-in architecture
  - Allows connecting to other services using WMS, Wikipedia, DBPedia, GeoJSON, CSV, KML, GPX, TopoJSON, WKT

- Researcher describes
  - Religion type
  - Location (Lat,Long)
  - Description (multiple languages supported - currently 5)and places images into a cultural site specific folder
- All editing is performed using a simple spreadsheet template
- Can be created in the field with a handheld device
- Markers are styled for each religion
- Plugins used
  - **Omnivore** plugin provides helper methods to extract and display data from a CSV file this is read by the map toolkit and displayed

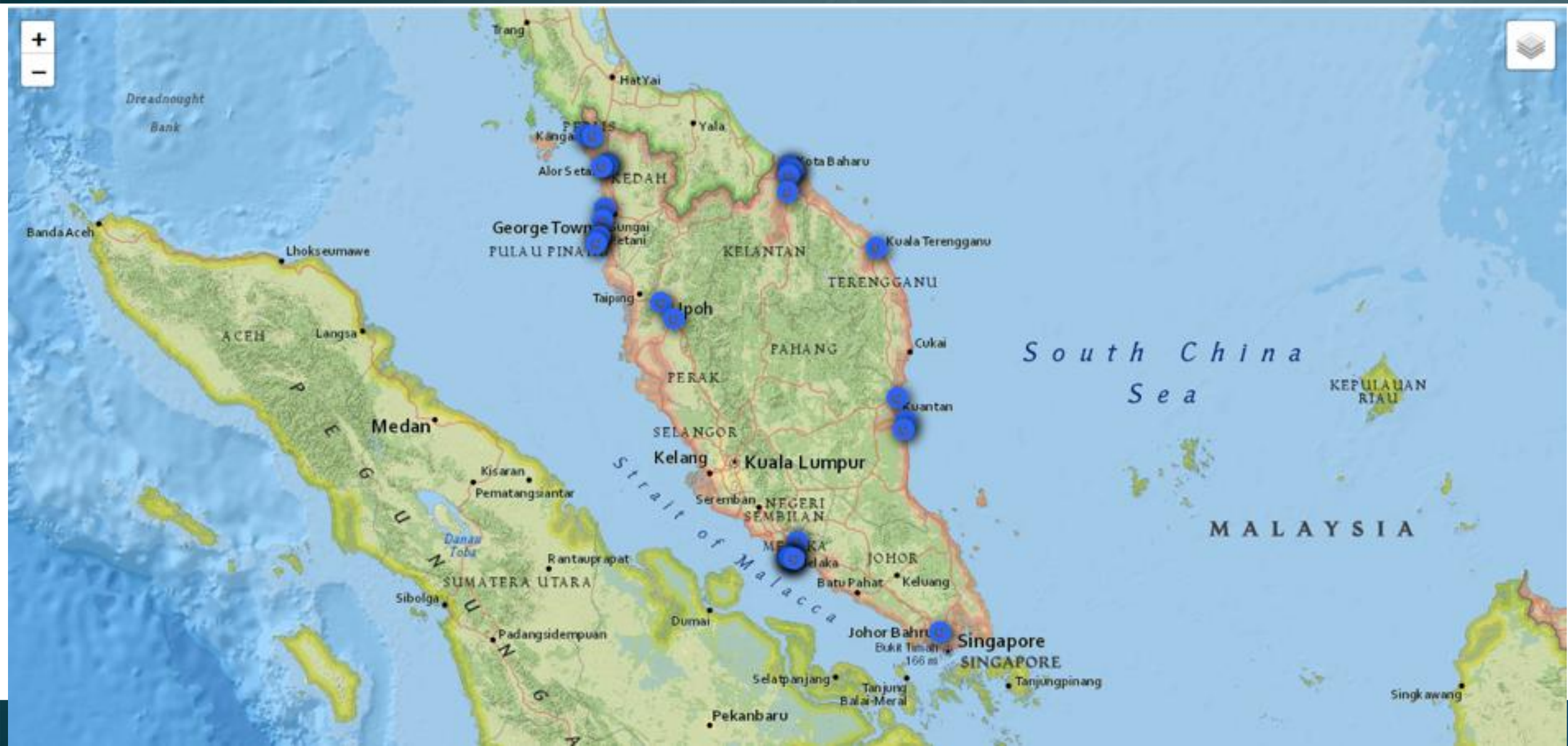


- Researcher collects assets into folders based on site number
  - Adds description to CSV file
    - Uploads to hosting webserver

- SiteNo
- Name
- Latitude
- Longitude
- State
- GISINFO
- EnglishDescription
- MalayDescription
- Language3Description
- Language4Description
- Language5Description
- DateEstablished
- Image1
- Image2
- Image3
- Image4
- Image5
- Image6







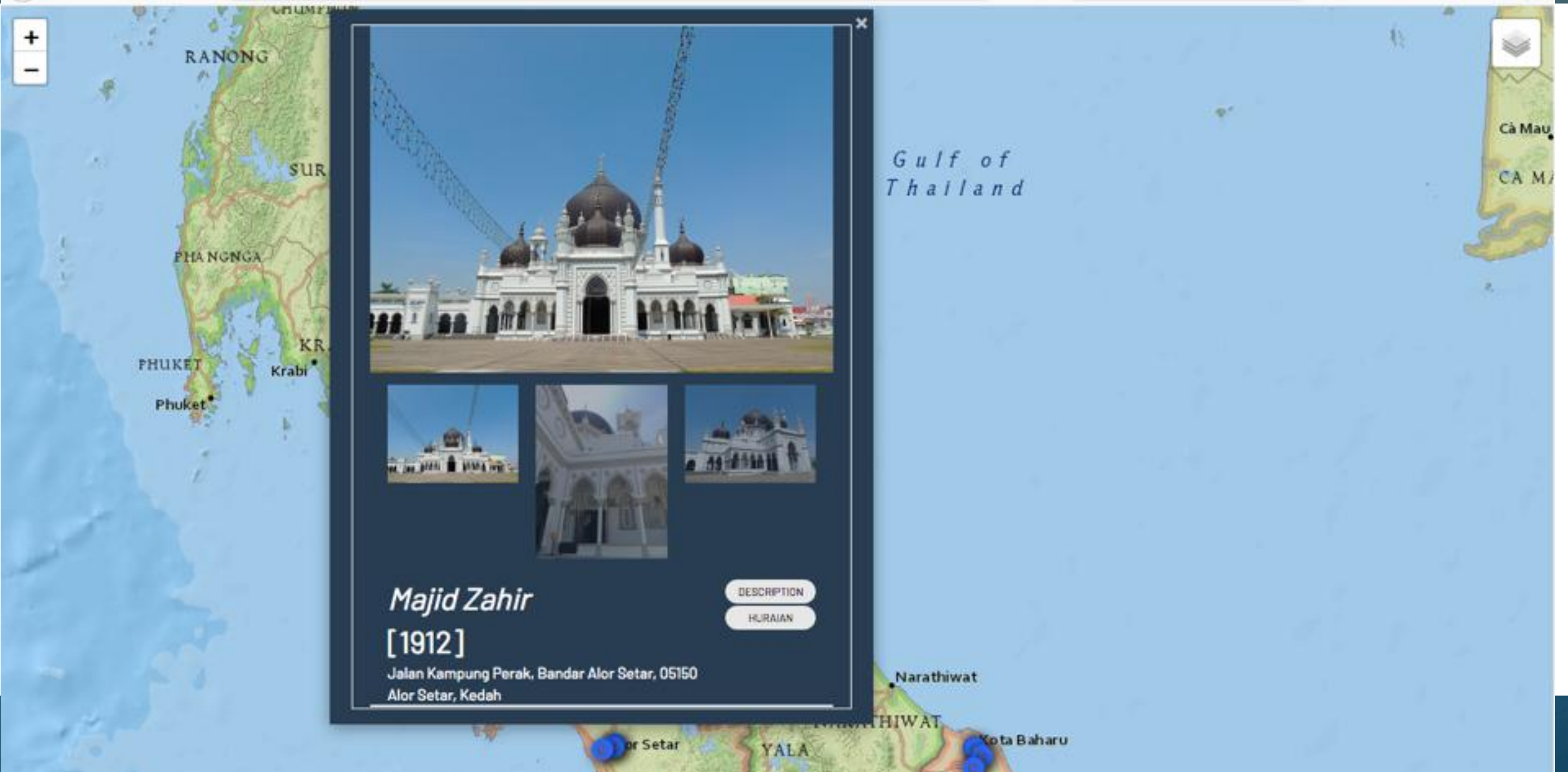


## *Majid Zahir* [1912]

Jalan Kampung Perak, Bandar Alor Setar, 05150  
Alor Setar, Kedah

DESCRIPTION

HURAIAN



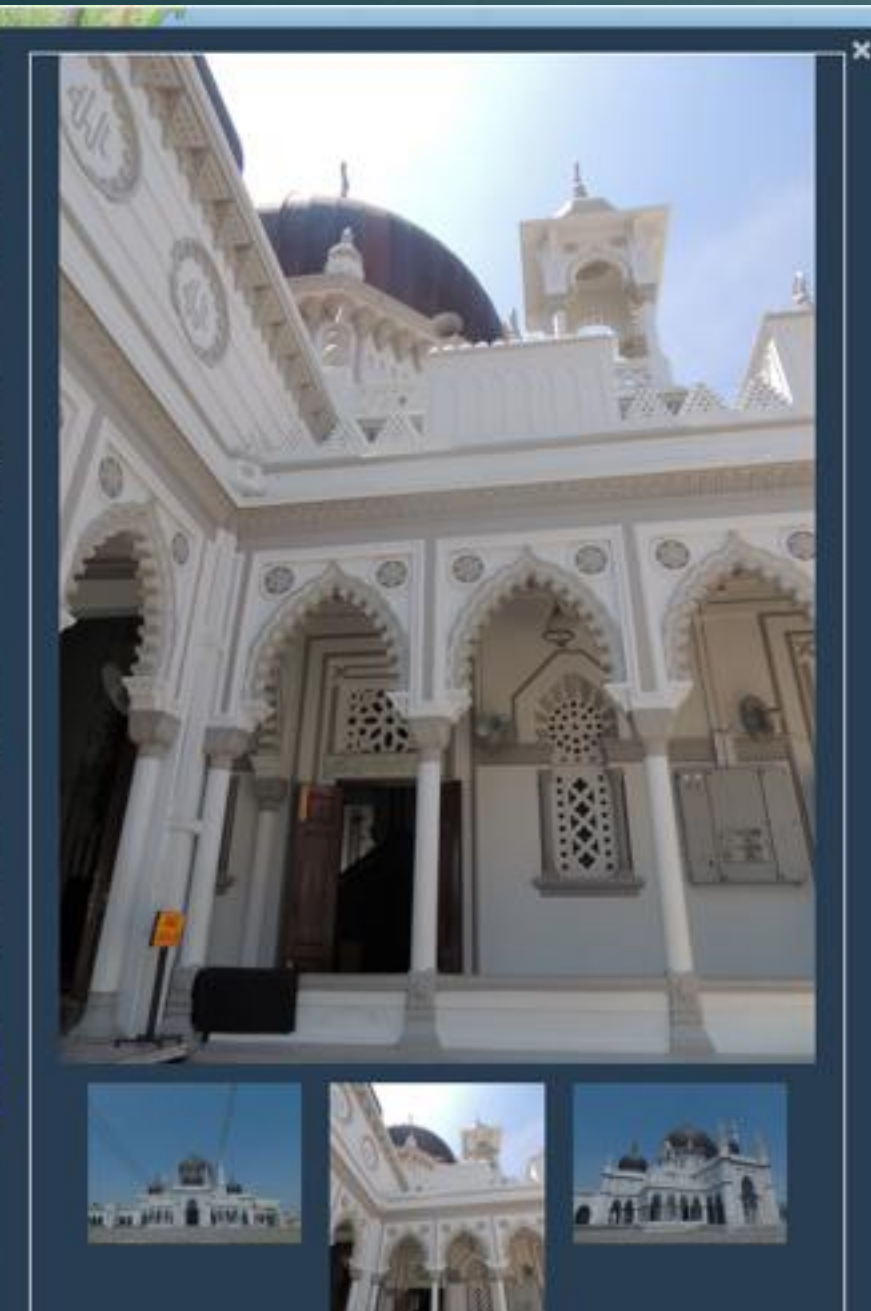
## Majid Zahir

[1912]

Jalan Kampung Perak, Bandar Alor Setar, 05150  
Alor Setar, Kedah

DESCRIPTION

HURAIAN





- Outreach to APAN and non-APAN members to create a regional and global Cultural Atlas
  - Support discovery of the wealth of national cultural treasures that each country holds
    - Support multi-lingual translations to enable greater access
      - Ensure that assets are globally distributed to provide resilience and permanence
        - Share best practice, techniques and experience

# Next Phase

- The coming of Hinduism, Buddhism and Islam to the Malay Peninsula has been established to have spread throughout the Malay Archipelago even before the 1st Century.
- Based on the dates these religious sites were built, we hope to show the pattern of distribution of these places of worship and include a timeline of events of the stipulated period as well as information and tracks of religions arriving to the Malay peninsula.

# Acknowledgement

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- All co-researchers and research assistants of this project