

# ONLINE VISUALISATION OF HIKING ACTIVITIES

## WEB-APPLICATION FOR HIKING

**AIM:** To design, and develop a web-based platform to visualise interactively simulated hiking activities using evaluate decision relevant map layers.

### I. Data phase: **objective I**

Defining and designing the data acquisition process.

Research questions

- a) What is the decision relevant information for a decision support system for travellers focusing on hiking activity?
- b) What Application Programming Interface (APIs) are available and relevant for a decision support system focusing on hiking activity, and what criteria do the APIs have to fulfil?

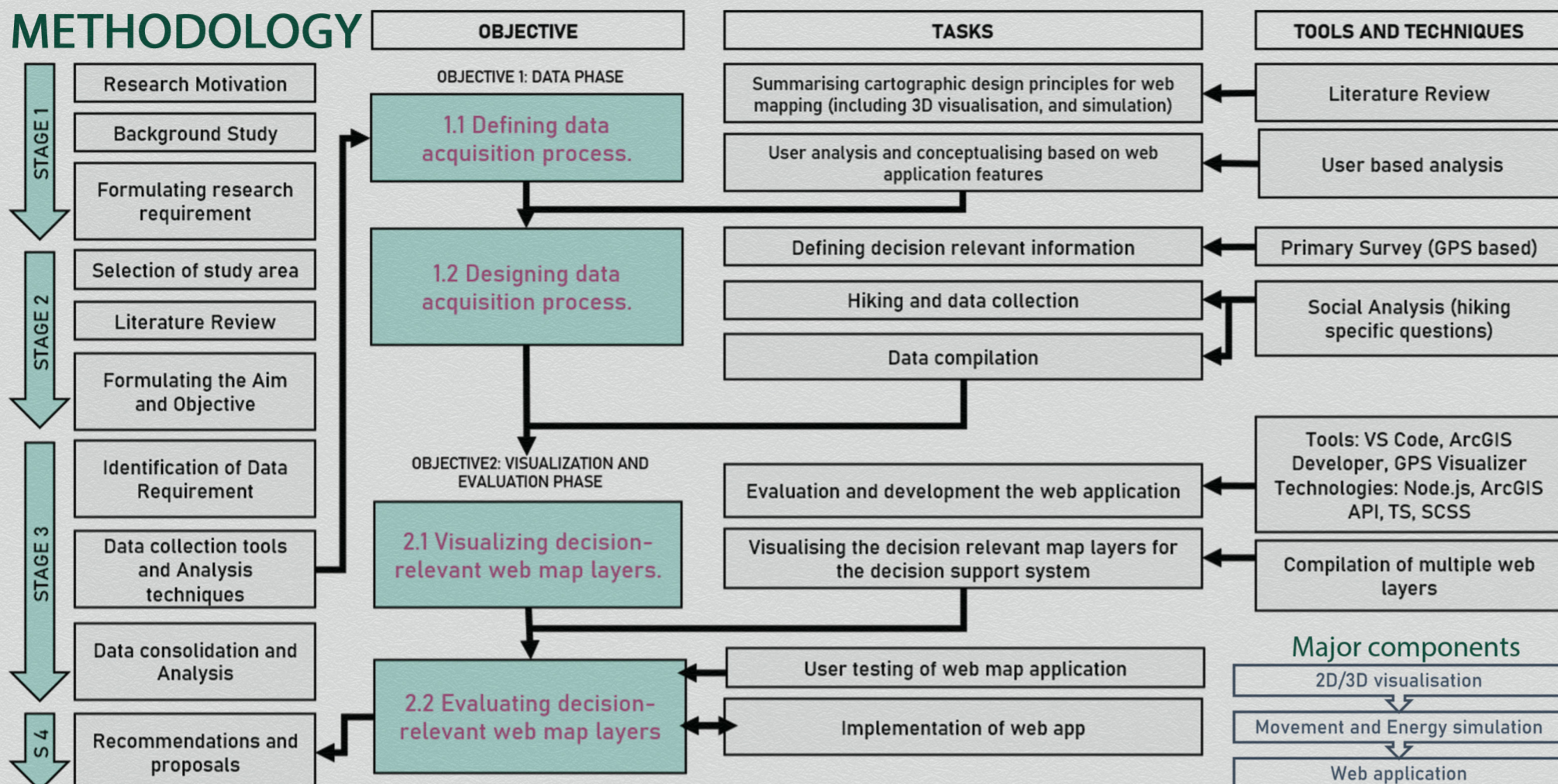
### II. Visualization and evaluation phase: **objective II**

Visualizing and evaluating decision-relevant web map layers.

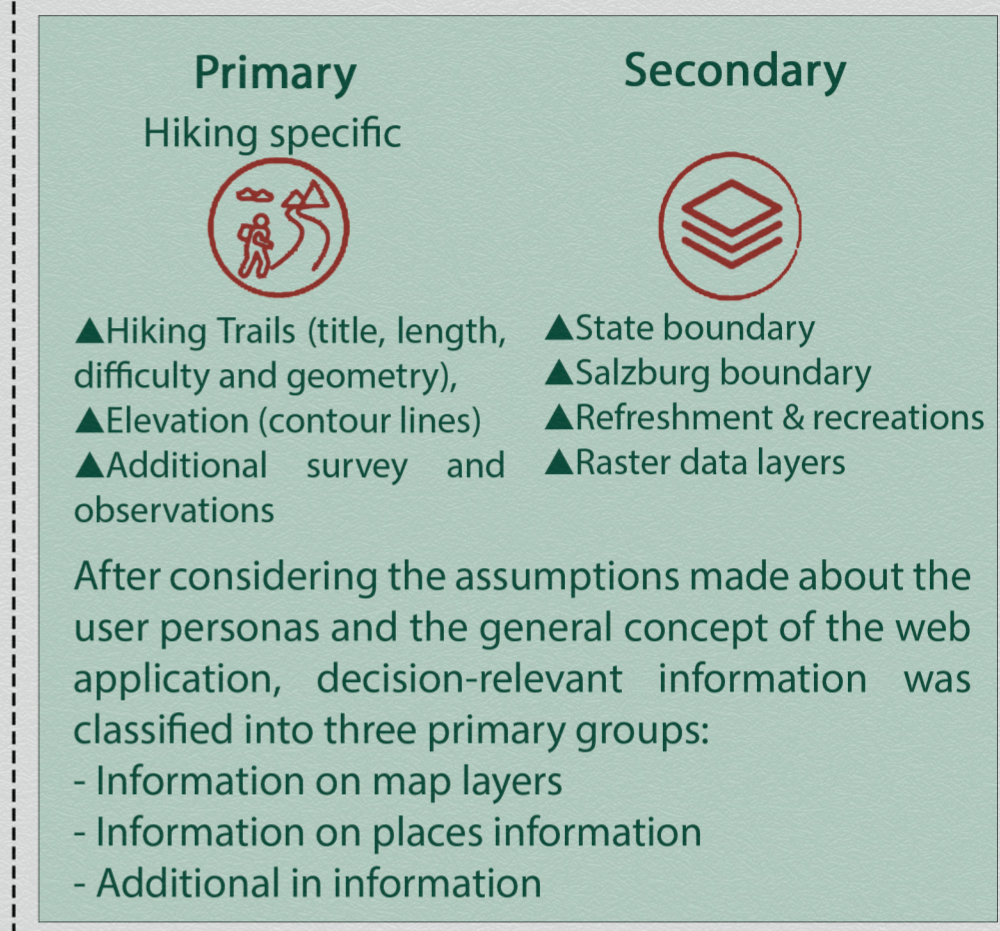
Research questions

- a) What web mapping applications exist, and how do they support travellers' decisions?
- b) How should the map elements be designed to support the traveller best?

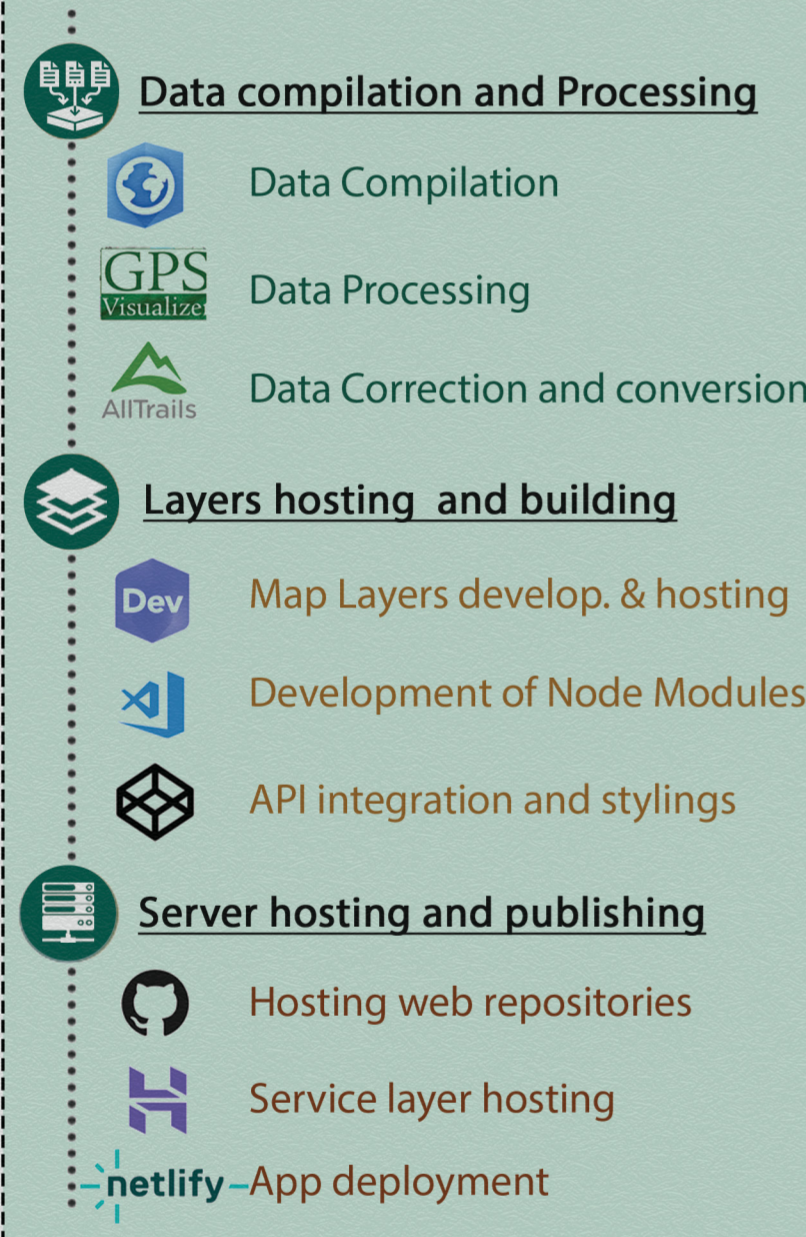
## METHODOLOGY



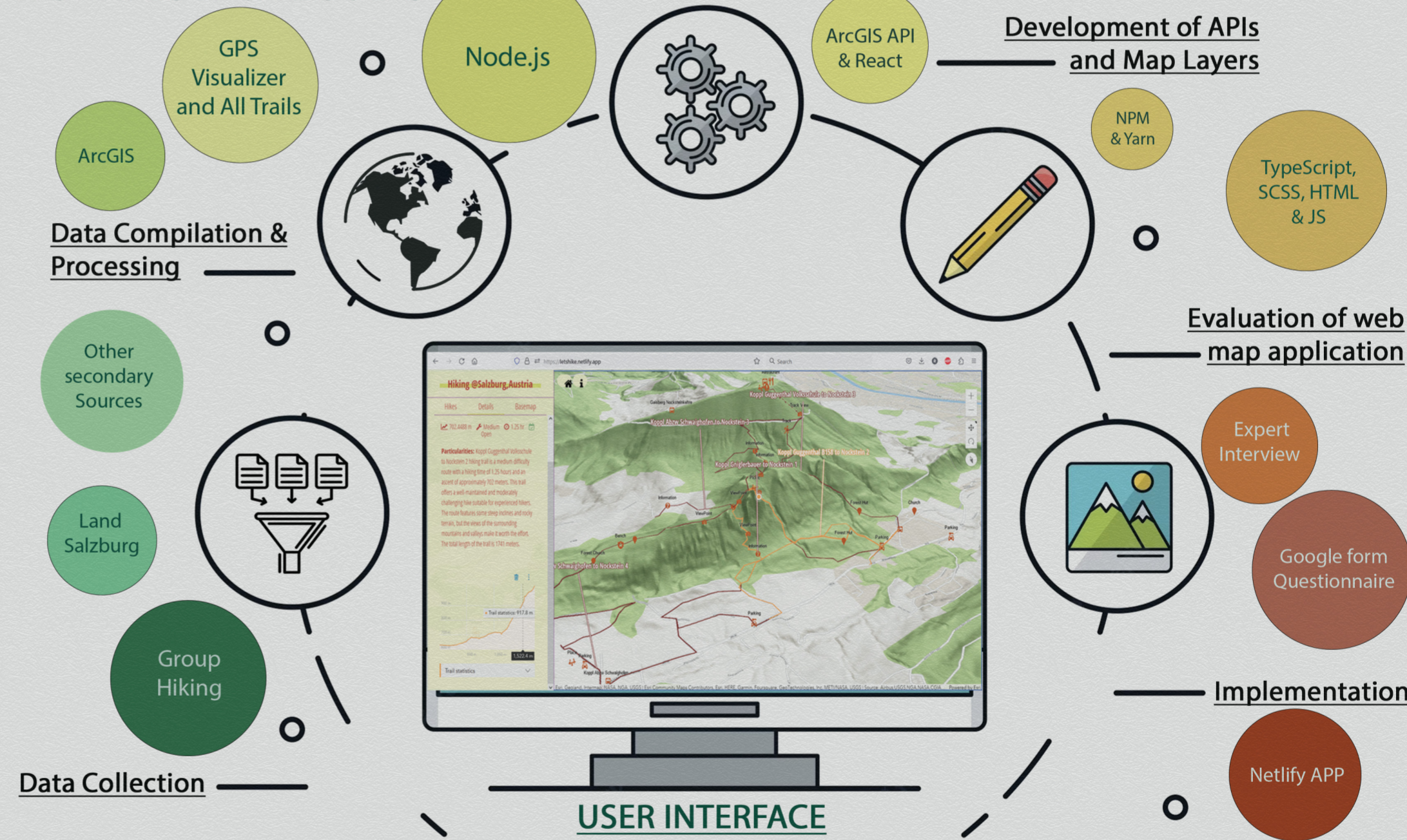
## DATA



## TOOLS AND TECHNOLOGIES

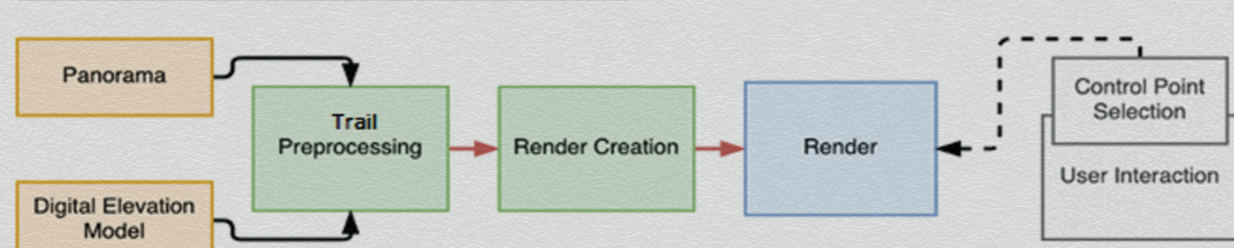


## WORKFLOW & RESULTS

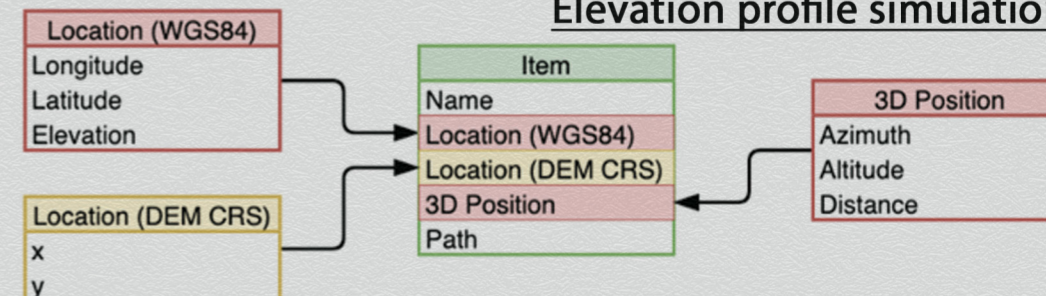


Programming Languages	Number of Units
.ts (62%)	16
.scss (25%)	10
Others (HTML and .js)(5%)	7

### How does this application work?



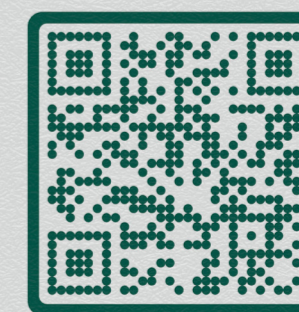
### Elevation profile simulation



## WEB APPLICATION COMPONENT (HIGHLIGHTS)



- The map view contains a 3D scene, following the web cartographic rules.
- The elevation profile includes pointer simulations and interactive graphs.
- The hiking points and information, along with pictures, are managed in pop-ups.



This application is currently compatible with big-screen devices, such as desktops or tablets. Additionally, you can also try accessing it on mobile phones in landscape mode.

SCAN TO SEE THE APP <https://letshike.netlify.app>

**Future upgrades**

- upscaling
- additional Hiking Navigation Features
- more reactive design as web application
- mobile application

