

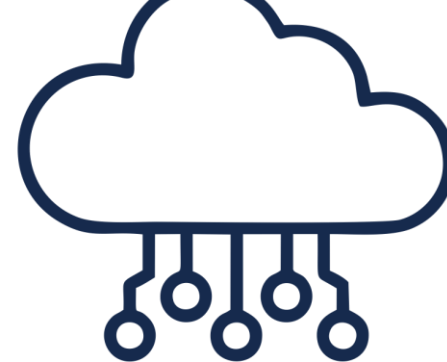


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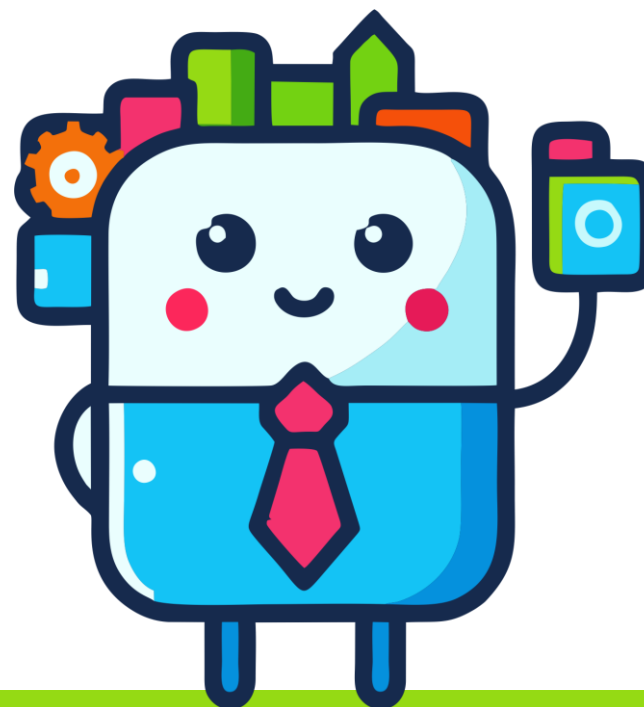




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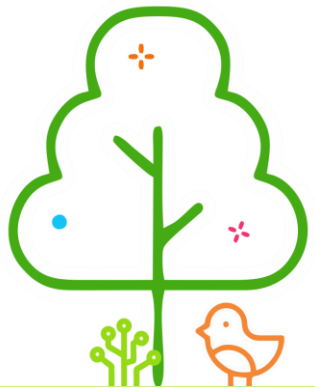
WELCOME to DIRECTORS!

Welkom! Dobro došli!

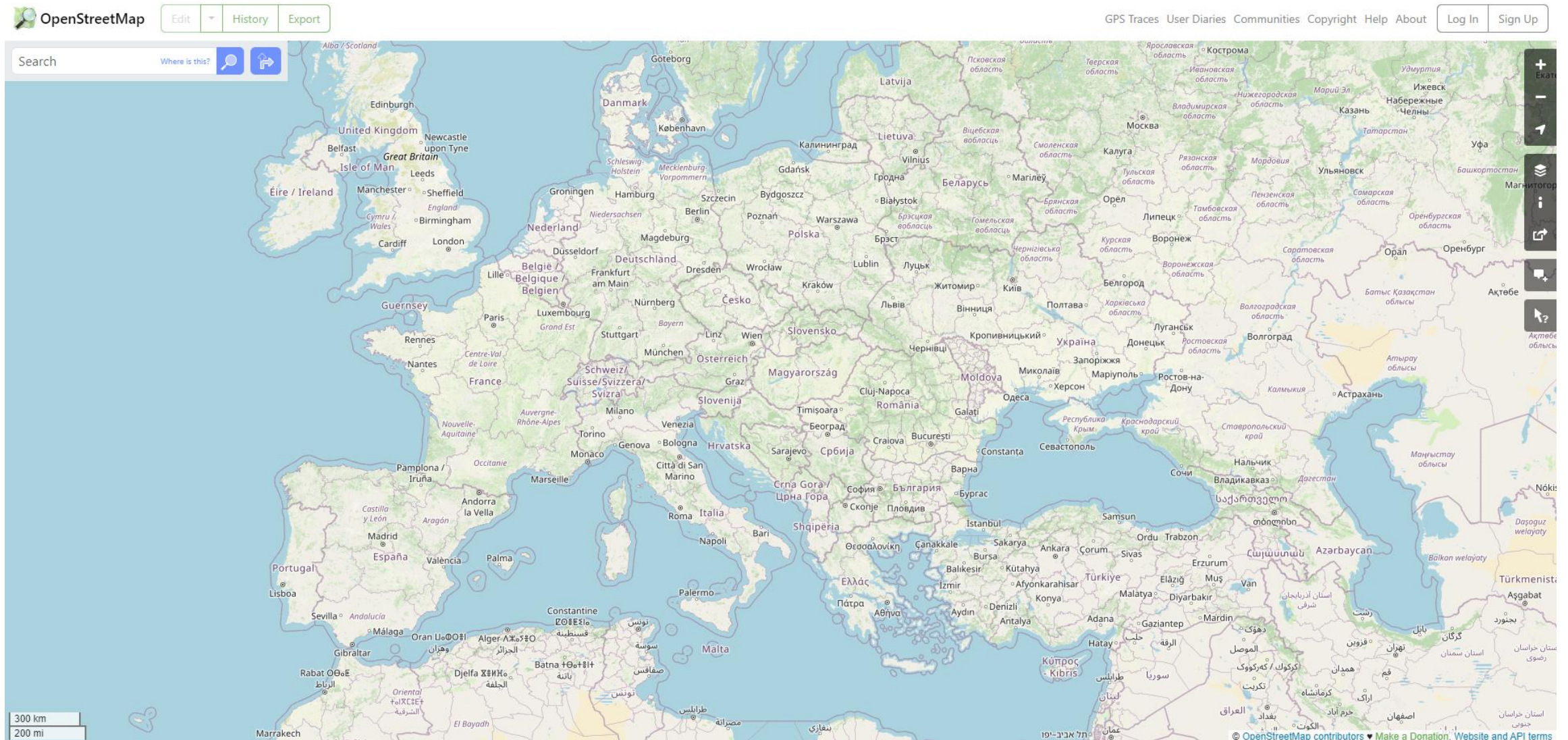


Spatial data (and maps) in our hands

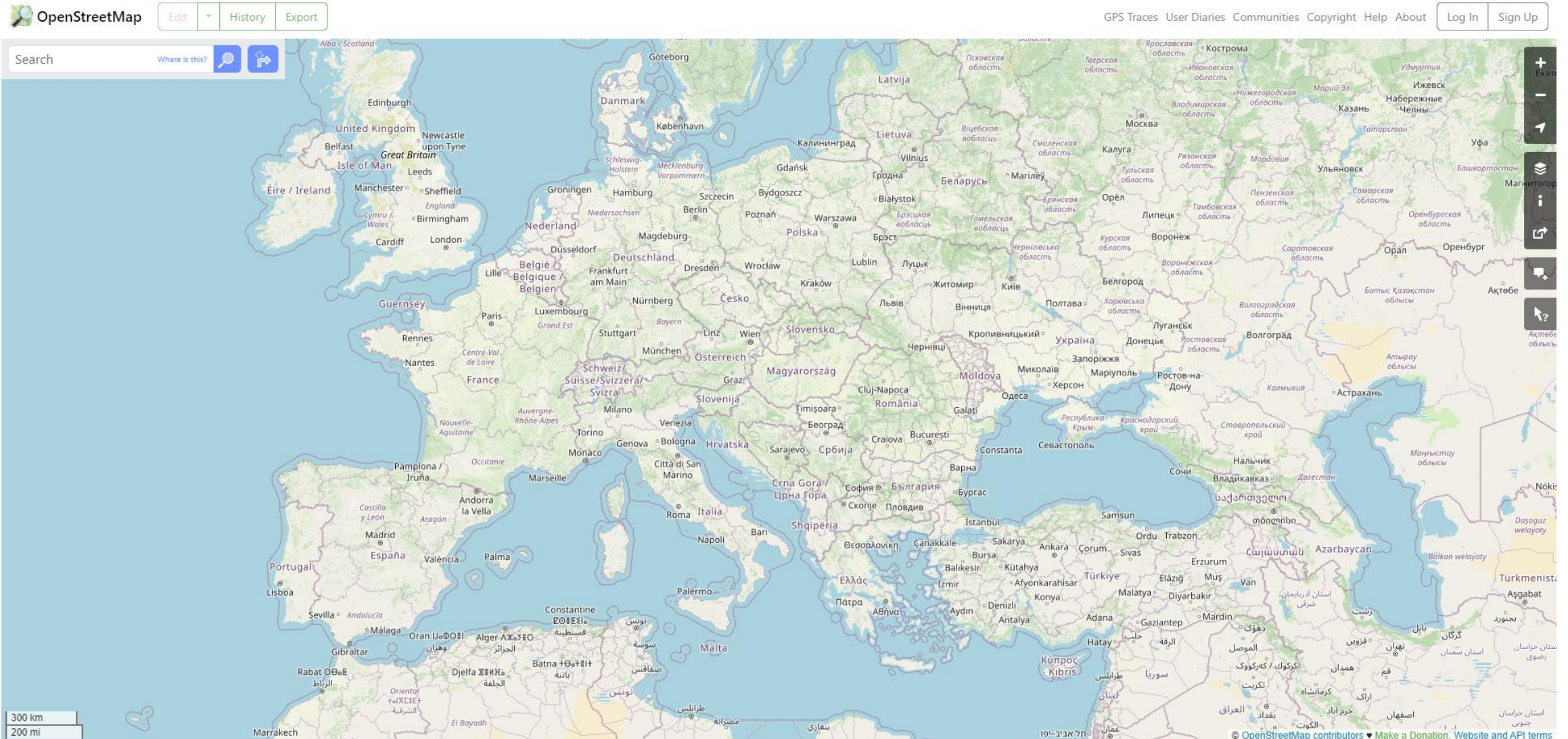
The Magic of Maps: Transforming Imagery into Smart Maps



Delft University of Technology, the Netherlands?

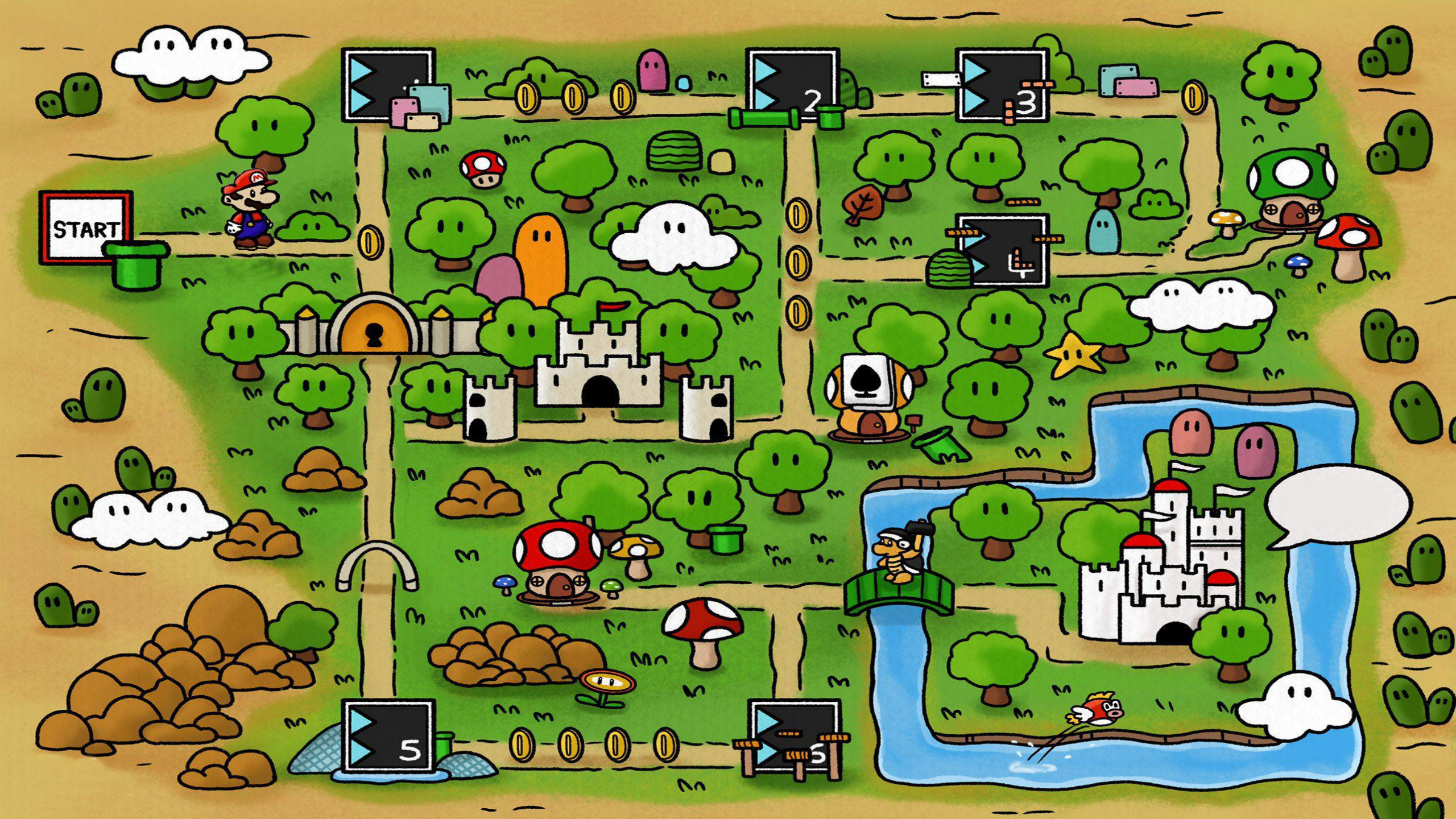


University of Zagreb, Croatia?





A fantasy map (source: <https://w0.peakpx.com/wallpaper/213/54/HD-wallpaper-crazy-world-world-globe-ocean-map-funny.jpg>)





What is GIS?

GIS are smart maps on a computer

- ✦ Smart digital maps are super useful because they can be used to answer many questions, for example, the nearest shop and fastest way to get somewhere.

GIS
GEOGRAPHICAL
INFORMATION
SYSTEM



How does GIS work?



GIS
GEOGRAPHICAL
INFORMATION
SYSTEM



But



+ You don't just get a smart map, you have to do something for it!

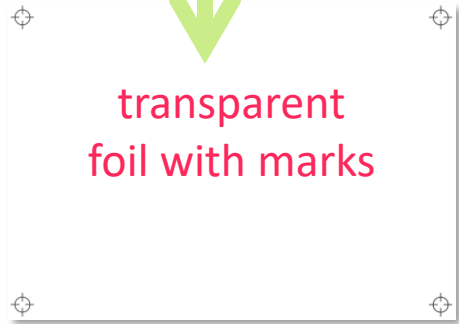
Let's make a map!







find the marks



transparent
foil with marks





align marks to
match the
same marks
on a printed
map to ensure
that the layer
you're drawing
is in the
correct place





trace over
important
parts of the
map with
smooth lines
and shapes

BUILDINGS





trace over
important
parts of the
map with
smooth lines
and shapes

STREETS





trace over
important
parts of the
map with
smooth lines
and shapes

OTHER
OBJECTS





align marks to
match the
same marks
on a printed
map to ensure
that the layer
you're drawing
is in the
correct place



Is the map complete?



Scale of the map



1:1,000

means:

1 cm on the map = 1,000 cm in the real world



MAP SCALE?

0 5 10 15 20 m
Mjerilo 1 : 500

0 10 20 30 40 m
Mjerilo 1 : 1 000

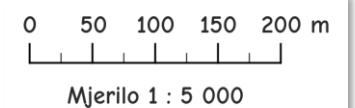
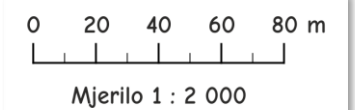
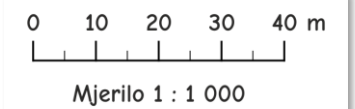
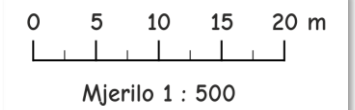
0 20 40 60 80 m
Mjerilo 1 : 2 000

0 50 100 150 200 m
Mjerilo 1 : 5 000





MAP SCALE?



Ready? Orient the map towards the north!





Where is
North?



Finally: the legend



- ✦ In the legend you explain the meaning of the various symbols, colours, lines, and figures on the map.

Special topics on the map



cemetery



church



school



city hall



my home



bus stop



supermarket



playground



restaurant



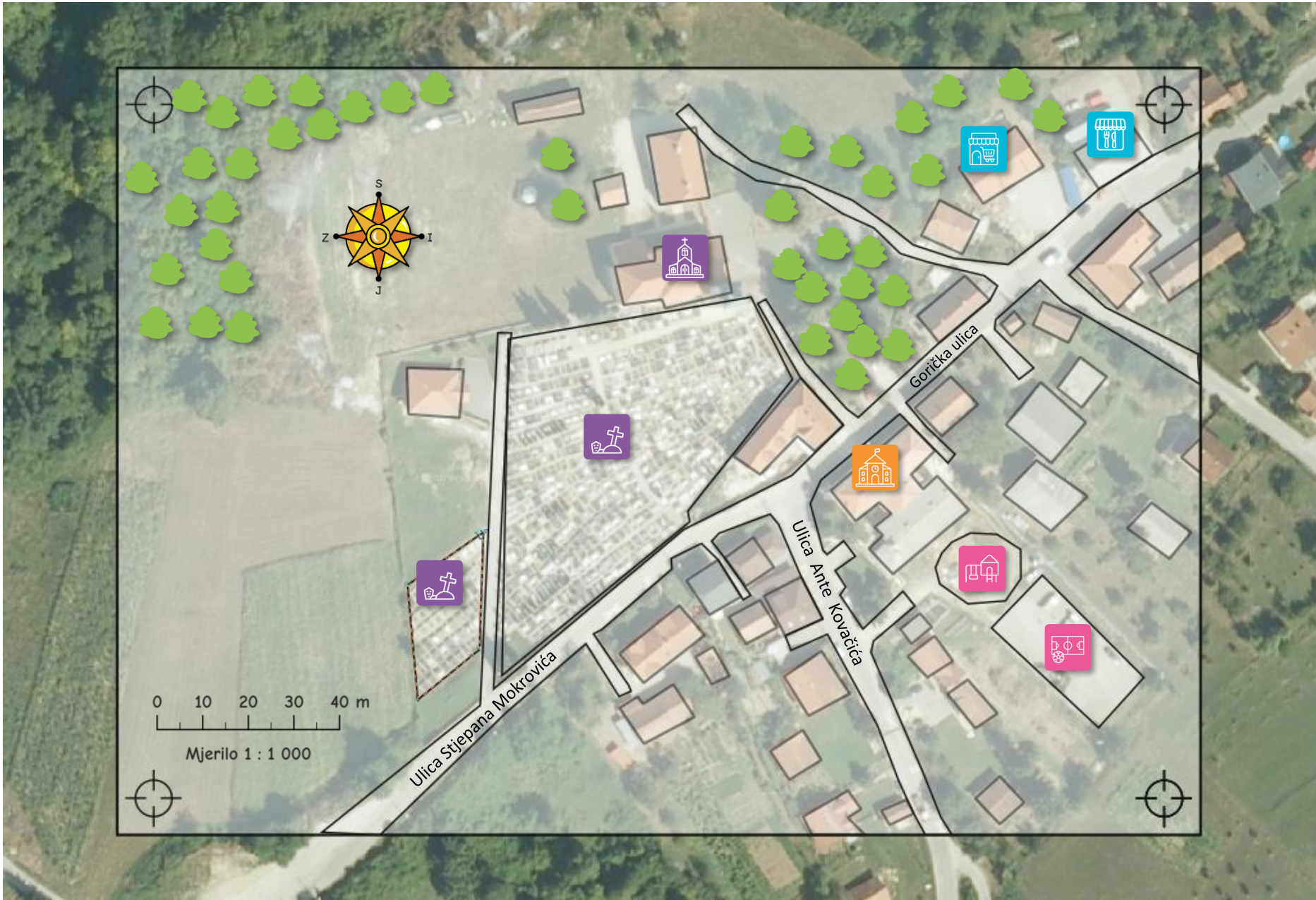
parc/forest



postal office

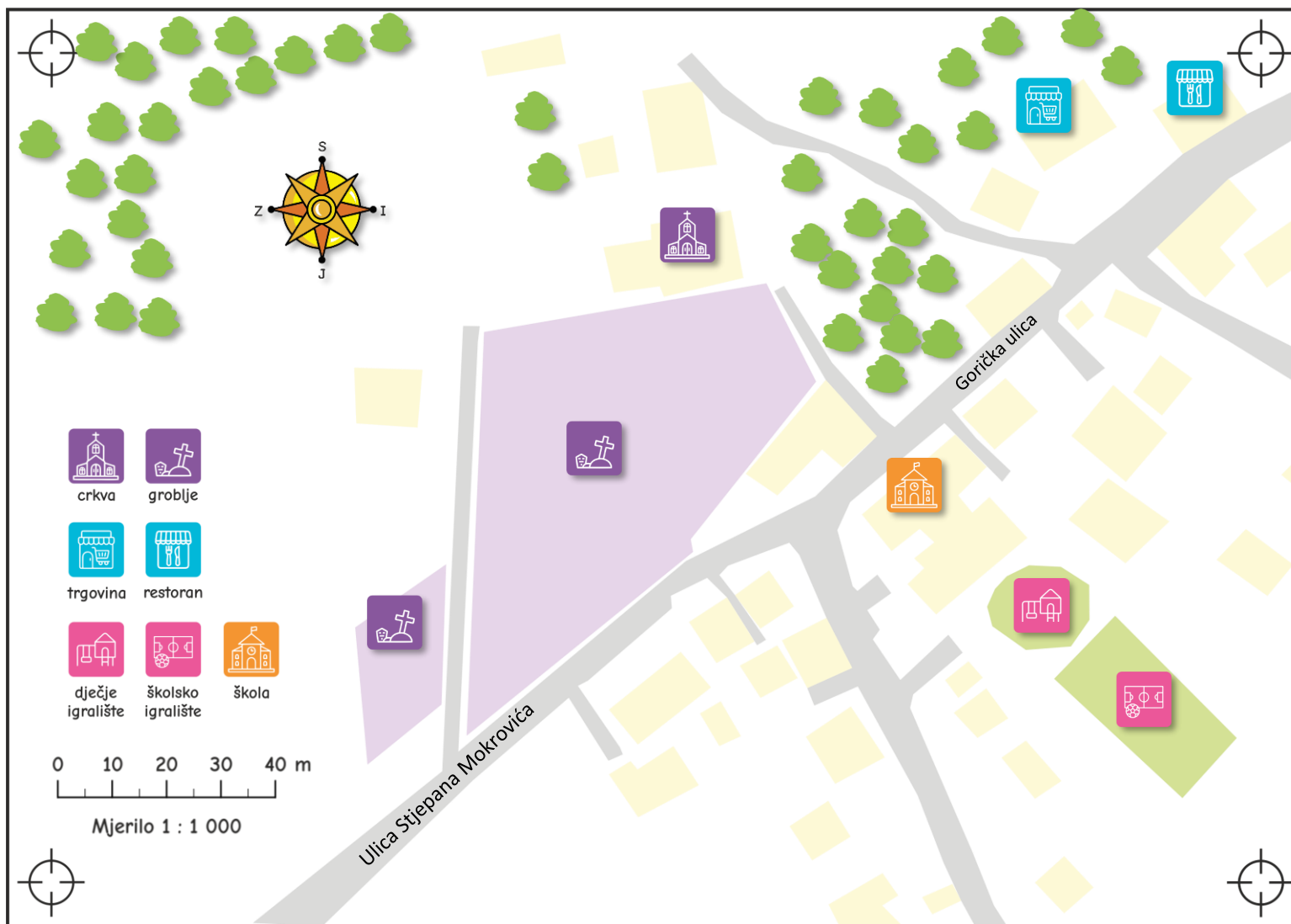


other

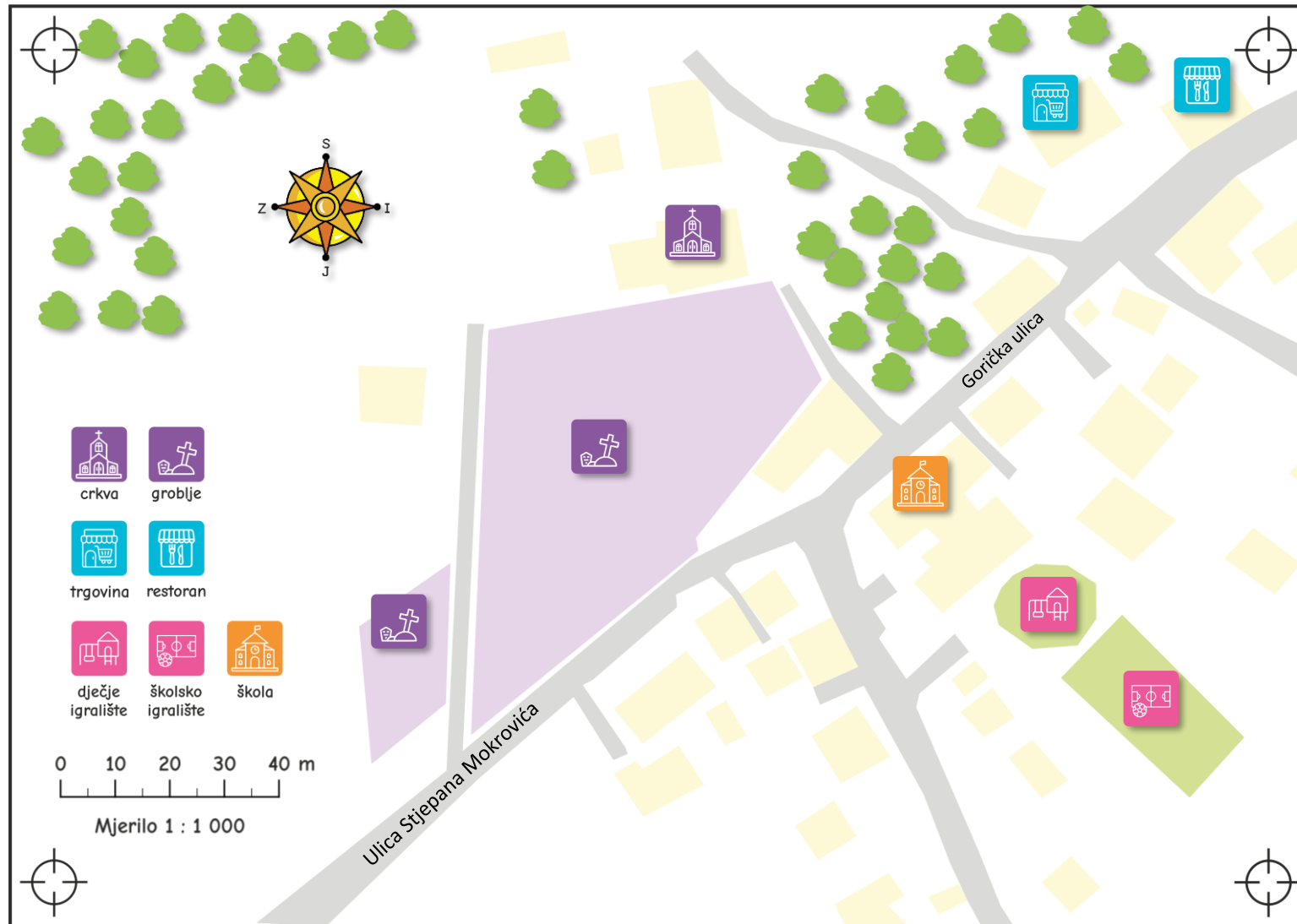


Use the symbols





Spatial analysis





The final results

- ✦ Did you manage to transform the aerial image into various data layers of the area of the school?
- ✦ If you look at the final result: What is striking to you?
- ✦ Can you explain what happened?
- ✦ Has the map become smarter?

From map towards GIS



✦ <https://www.edugis.nl/project/nederland/>



Next time

+ Treasure hunting with GIS and GPS



So... How did you like the workshop?





See you in the next workshop! 🎉

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