

SEND YOUR HOMEWORK #2

HOMEWORK #2 – URBAN MAPPING EXERCISE

INSTRUCTIONS:

- TAKE A SHORT WALK (AGAIN) AROUND YOUR FAVORITE PLACE IN THE CITY.
- CHOOSE ONE ELEMENT TO BE MAPPED AS POINTS (E.G., TREES, BENCHES, CAFÉS, MURALS, ETC.).
- MAP AT LEAST 5 POINTS FOR THIS ELEMENT.
- RECORD 5 DIFFERENT ATTRIBUTES FOR YOUR POINTS (E.G., NAME, CONDITION, SIZE, COLOR, MATERIAL).
- BE CREATIVE AND THINK ABOUT HOW EVERYDAY URBAN ELEMENTS CAN TELL A SPATIAL STORY!
- UPLOAD YOUR WORK BELOW.
-

BE READY TO SHARE YOUR EXAMPLES IN THE NEXT CLASS. BE CREATIVE!



SEND YOUR HOMEWORK #1

HOMEWORK #1:

1. BRING A CONCEPT OF GEOGRAPHICAL SPACE;
2. TAKE A SHORT WALK AT YOUR FAVORITE PLACE IN THE CITY AND TAKE A PHOTO OF THE LANDSCAPE. THINK OF 3 THINGS THAT COULD BE REPRESENTED IN GIS, ONE AS:
 - A POINT,
 - A LINE,
 - A POLYGON.
- BE READY TO SHARE YOUR EXAMPLES NEXT CLASS!
3. INSTALL QGIS IN YOUR LAPTOP (OPTIONAL);



GIS – Geographical Information Systems

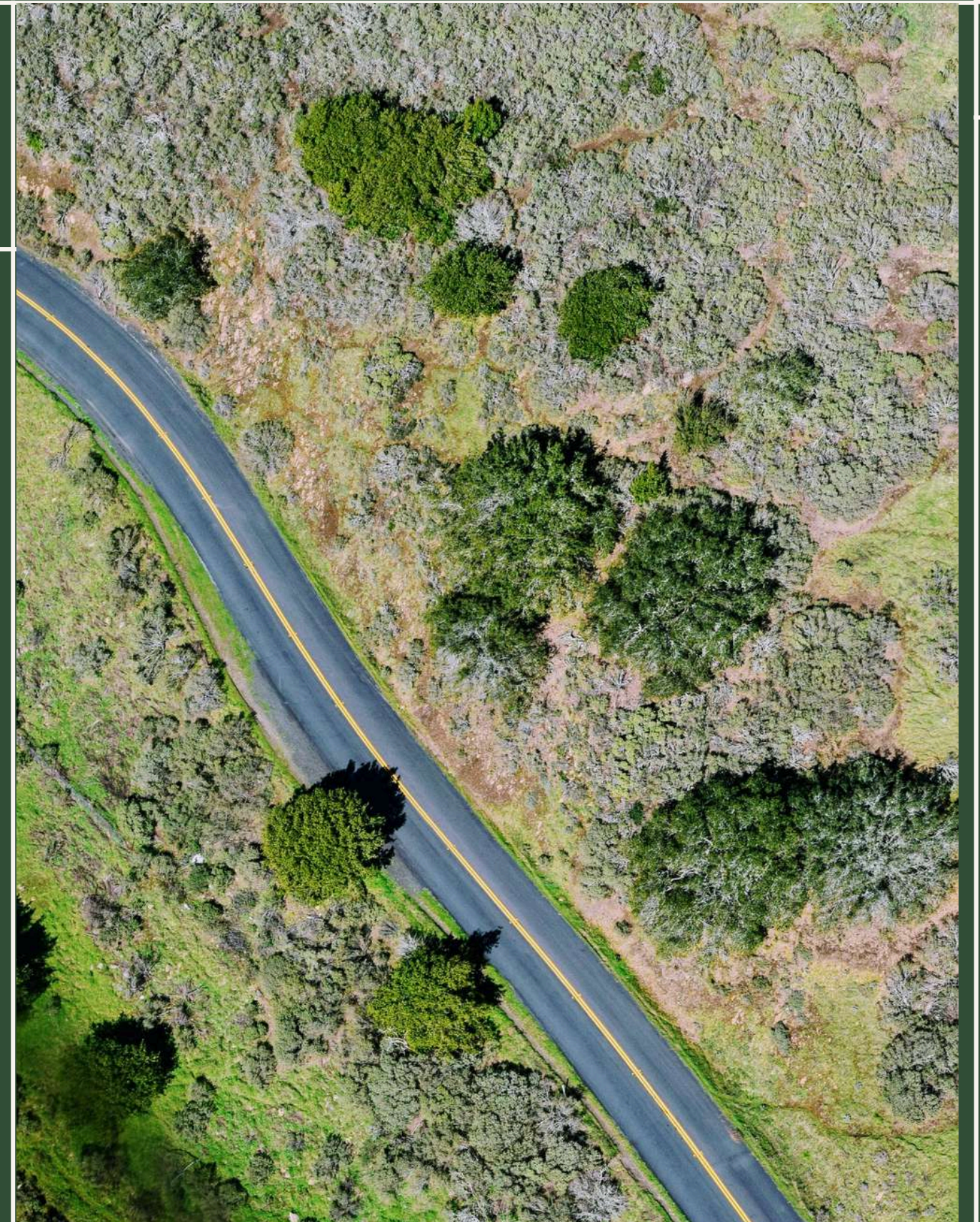
CLASS #2 – MAPPING POINTS IN THE SPACE

REGISTER SURROUNDING TREES

BUILD AN ATTRIBUTE TABLE FROM ZERO

COLLECT DATA TO THE ATTRIBUTE TABLE

CREATE A PONT LAYER IN QGIS



MAPPING URBAN TREES



What data should we collect?

- a) Identifier number
- b) Latitude and Longitude
- c) Species
- d) Height (small/medium/ tall)
- e) Condition (healthy/ damaged/ dead)
- etc...

MAPPING URBAN TREES

Data = Attribute



FIELD	TYPE	DESCRIPTION / NOTES	EXAMPLE VALUE
tree_id	Number	Unique identifier for each tree	1
latitude	Decimal	Latitude in decimal degrees	48
longitude	Decimal	Longitude in decimal degrees	8
name	Text	Tree's name (if known)	Maple Tree
species	Text	Tree species or type	Acer platanoides
height	Text	Size class (Small / Medium / Tall)	Medium
colour	Text	Current leaf colour	Green
condition	Text	Health condition	Healthy
location	Text	Short description or reference	"Near the main entrance"

MAPPING URBAN TREES

Attribute Table



TREE ID	LAT	LON	NAME	SPECIES	HEIGHT	COLOUR	CONDITION	LOCATION

MAPPING URBAN TREES

Attribute Table

[illegible]

MAPPING URBAN TREES

Attribute Table



TREE ID	LAT	LON	NAME	SPECIES	HEIGHT	COLOUR	CONDITION	LOCATION
How can we get the data?								

How can we get the data?

MAPPING URBAN TREES

Attribute Table



TREE ID	LAT	LON	NAME	SPECIES	HEIGHT	COLOUR	CONDITION	LOCATION
<div>How can we get the data?</div> <div>Let's map!</div>								

How can we get the data?

Let's map!

MAPPING URBAN TREES

Attribute Table

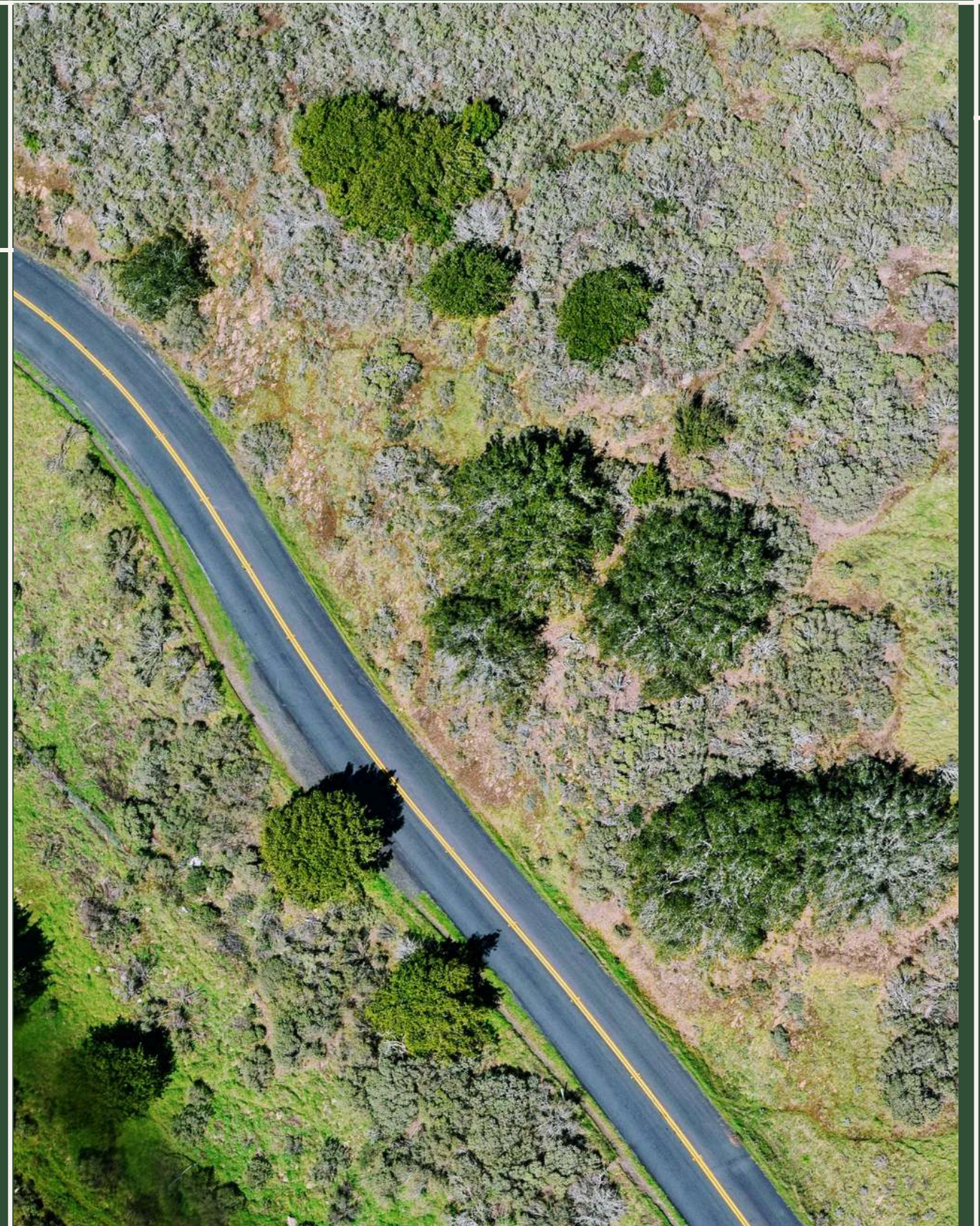
[illegible]

Copy this Attribute Table in a papper sheet

Mapping trees in QGIS

5 MAIN STEPS:

1. CREATE THE PROJECT'S FOLDER IN YOUR COMPUTER.
 2. WRITE THE ATTRIBUTE TABLE AND SAVE AS CSV FILE.
 3. IMPORT THE .CSV FILE IN QGIS.
 4. SAVE THE TREES AS A SHAPEFILE (SHP).
 5. ADD SATELLITE VIEW (BACKGROUND).
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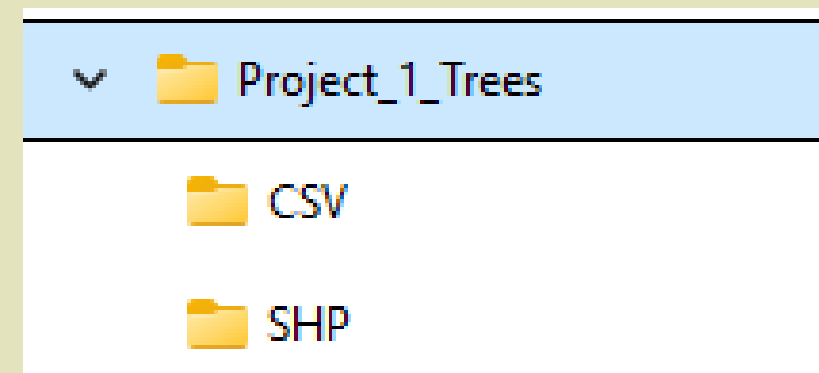
1. CREATE THE PROJECT'S FOLDER



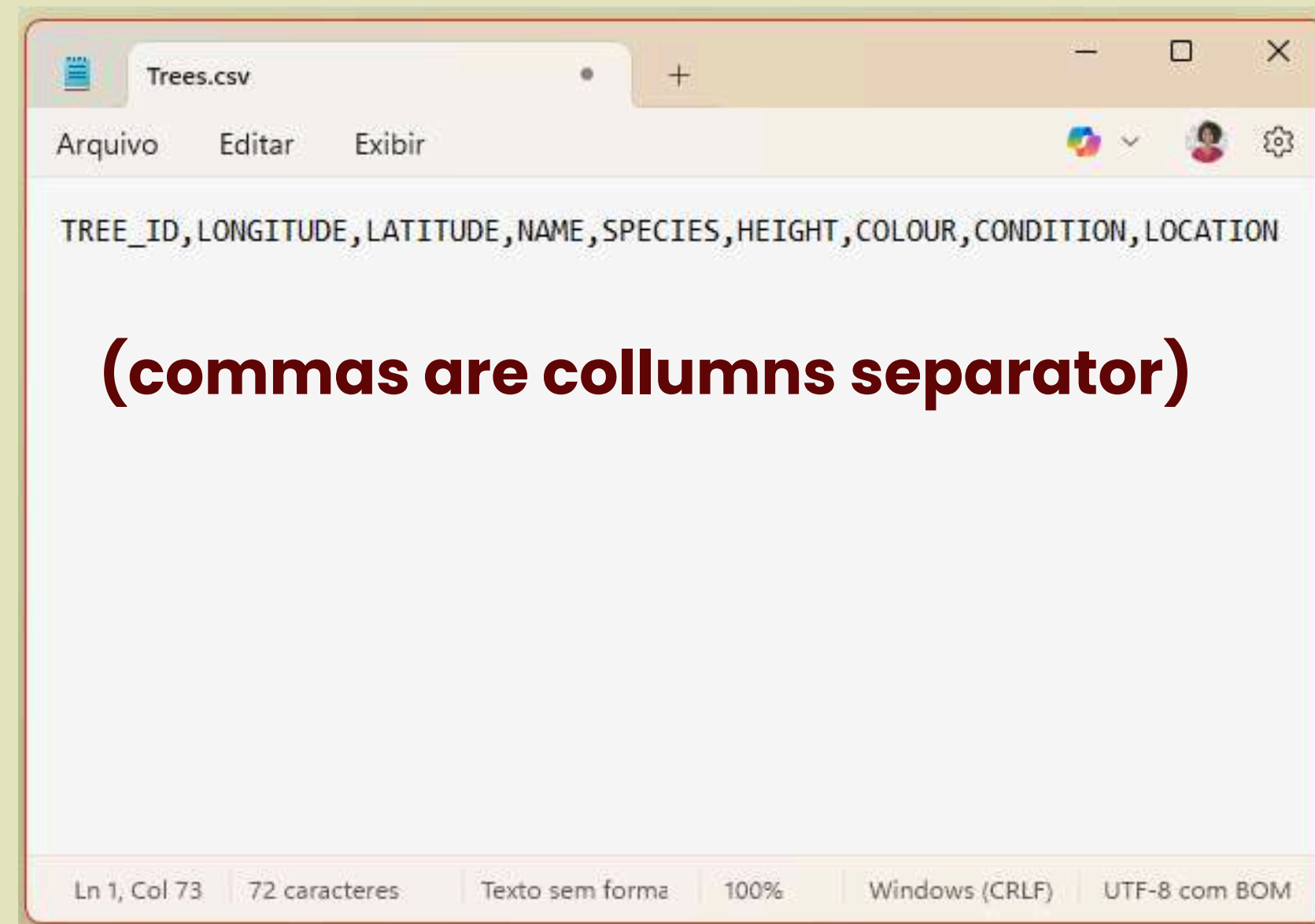
Create a folder for your new map

Folder name: Project_1_Trees

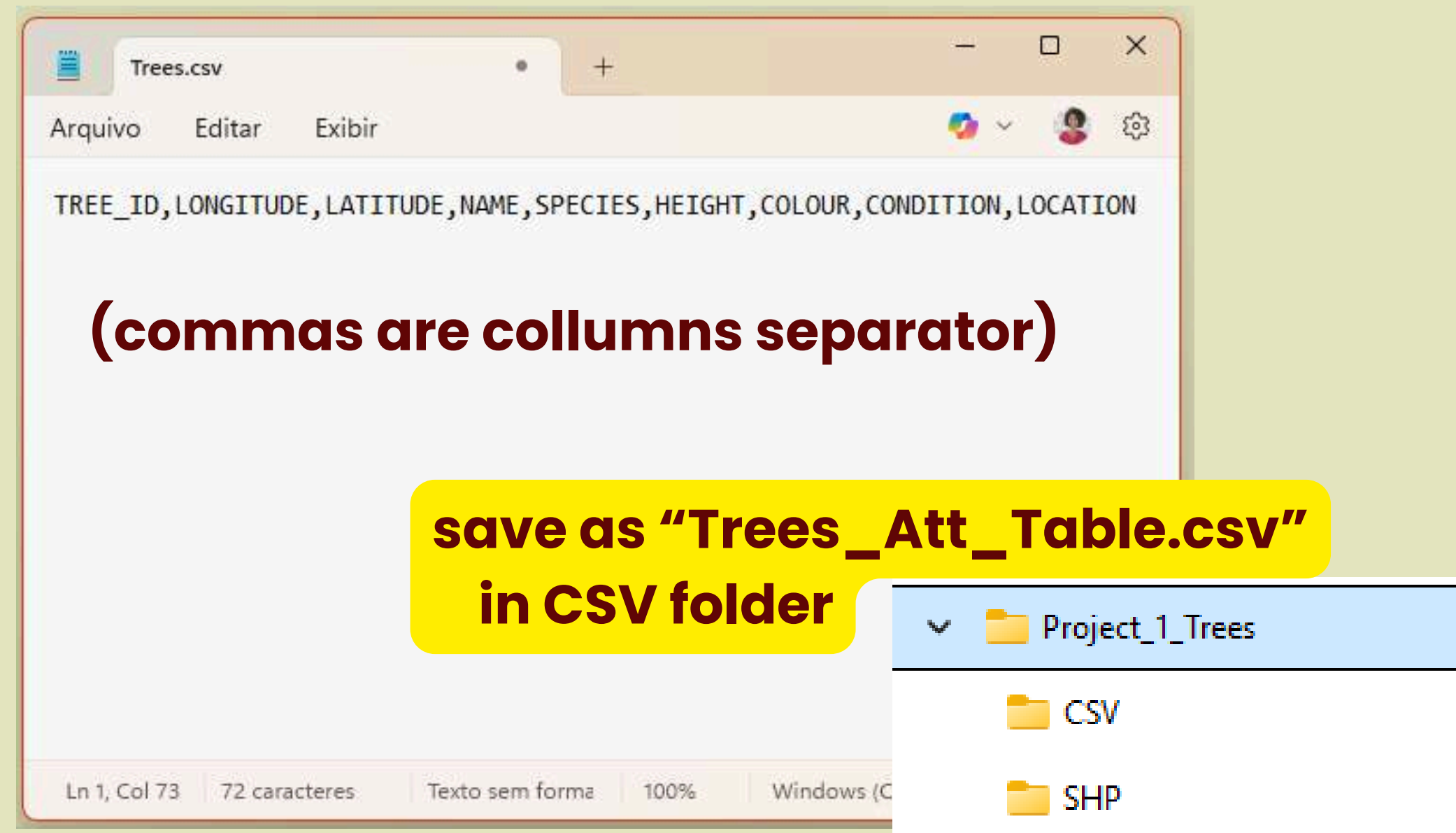
Create 2 folders inside: **CSV** and **SHP**



2. WRITE THE ATTRIBUTE TABLE AND SAVE AS CSV FILE

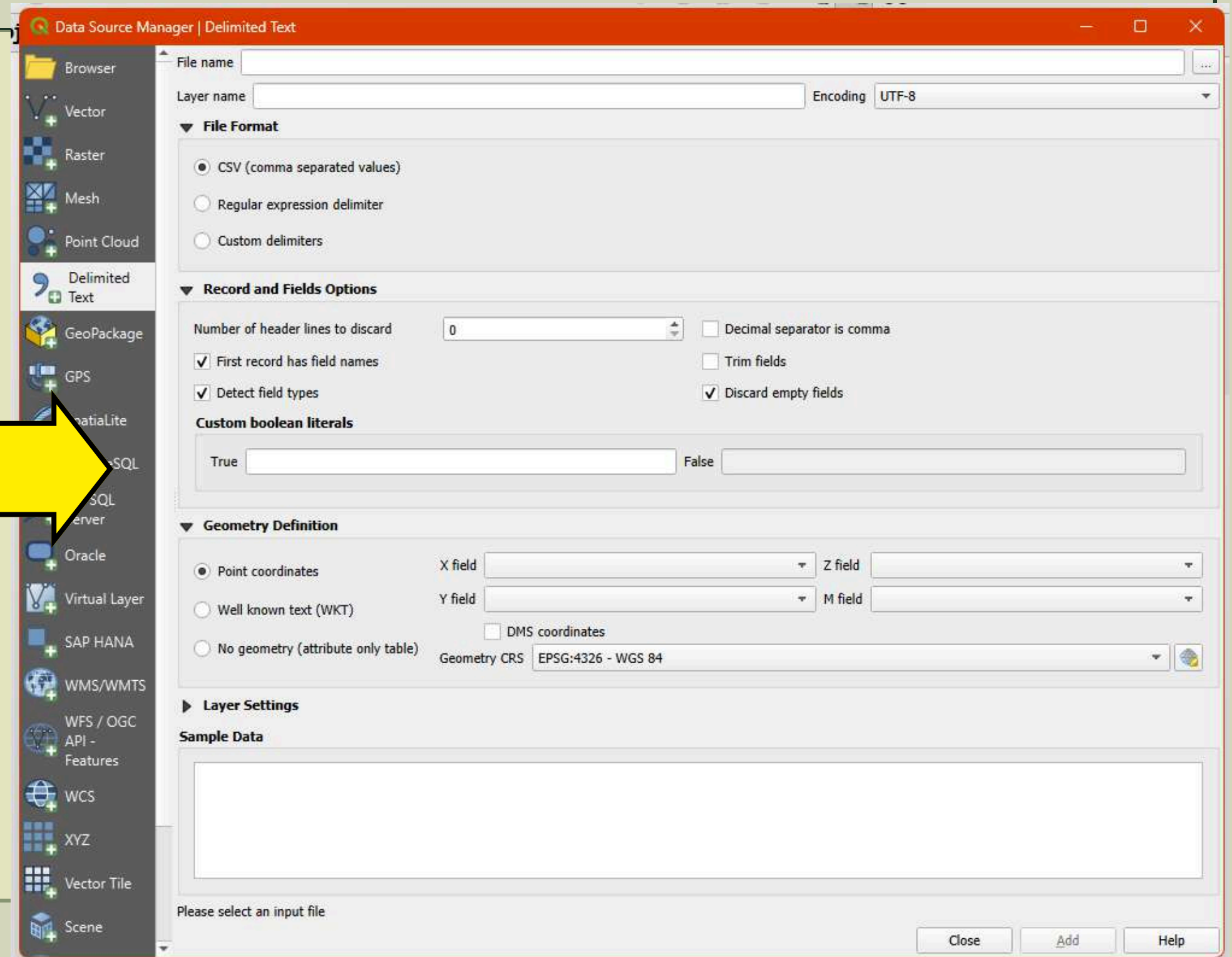
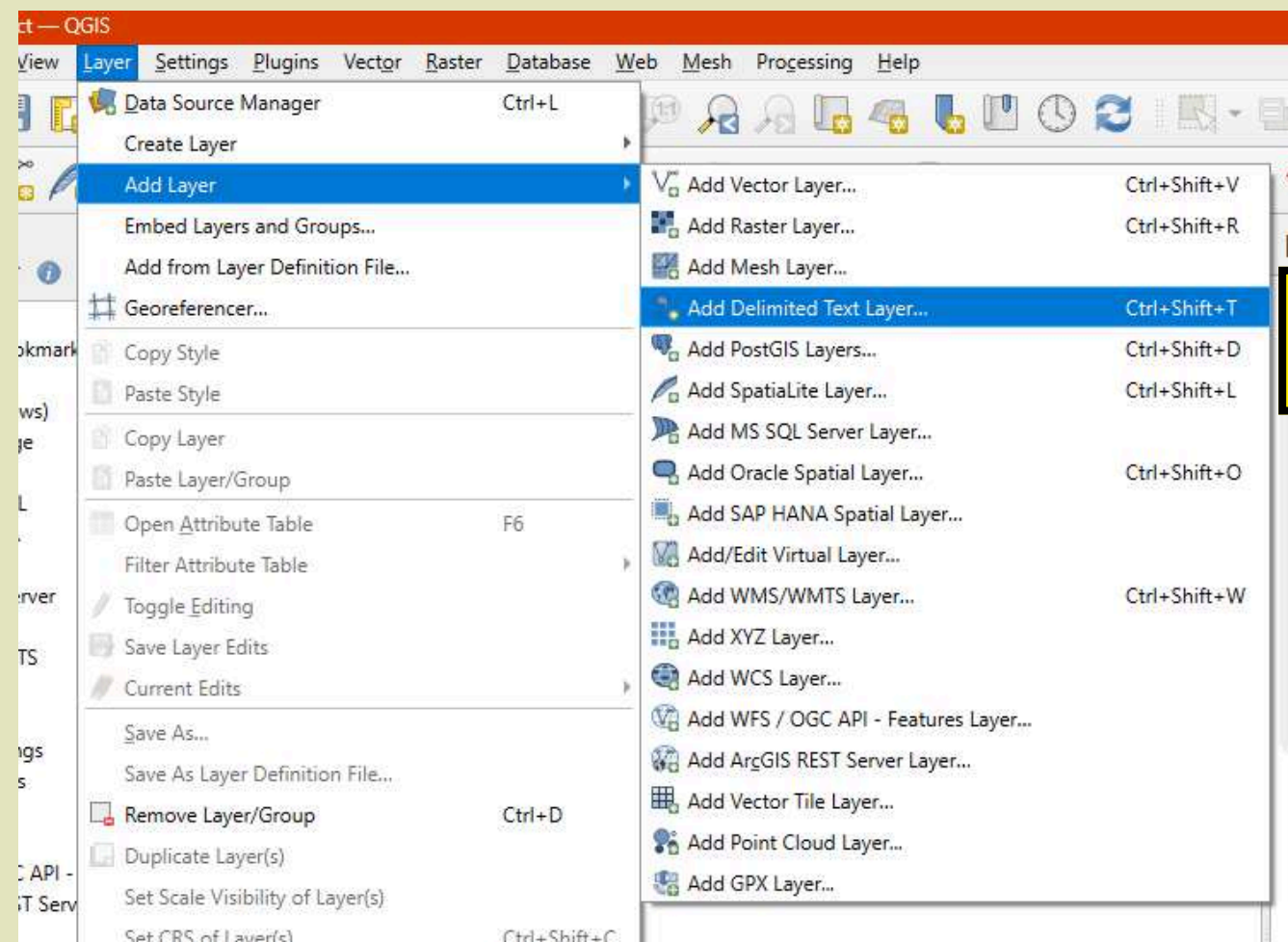


2. WRITE THE ATTRIBUTE TABLE AND SAVE AS CSV FILE



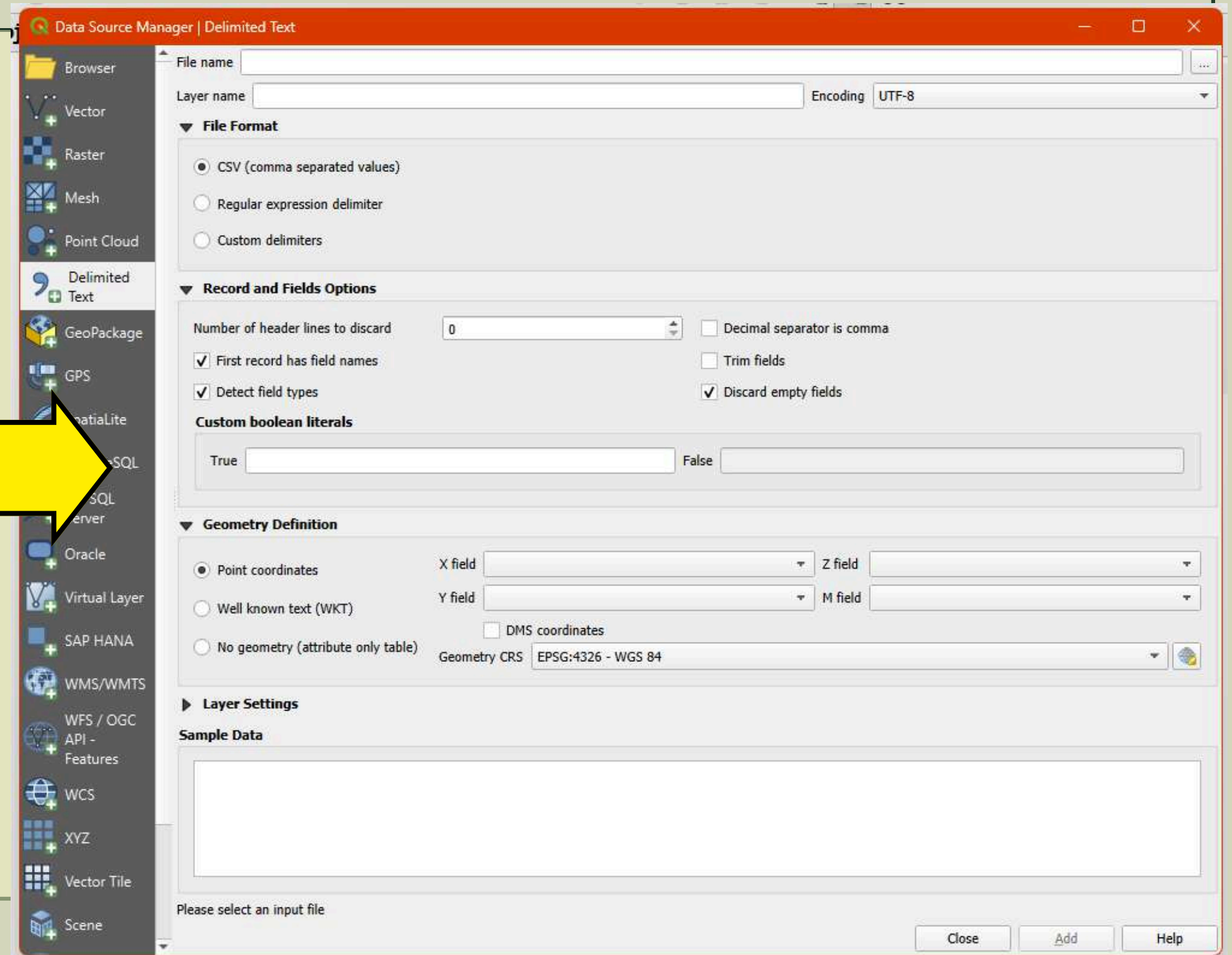
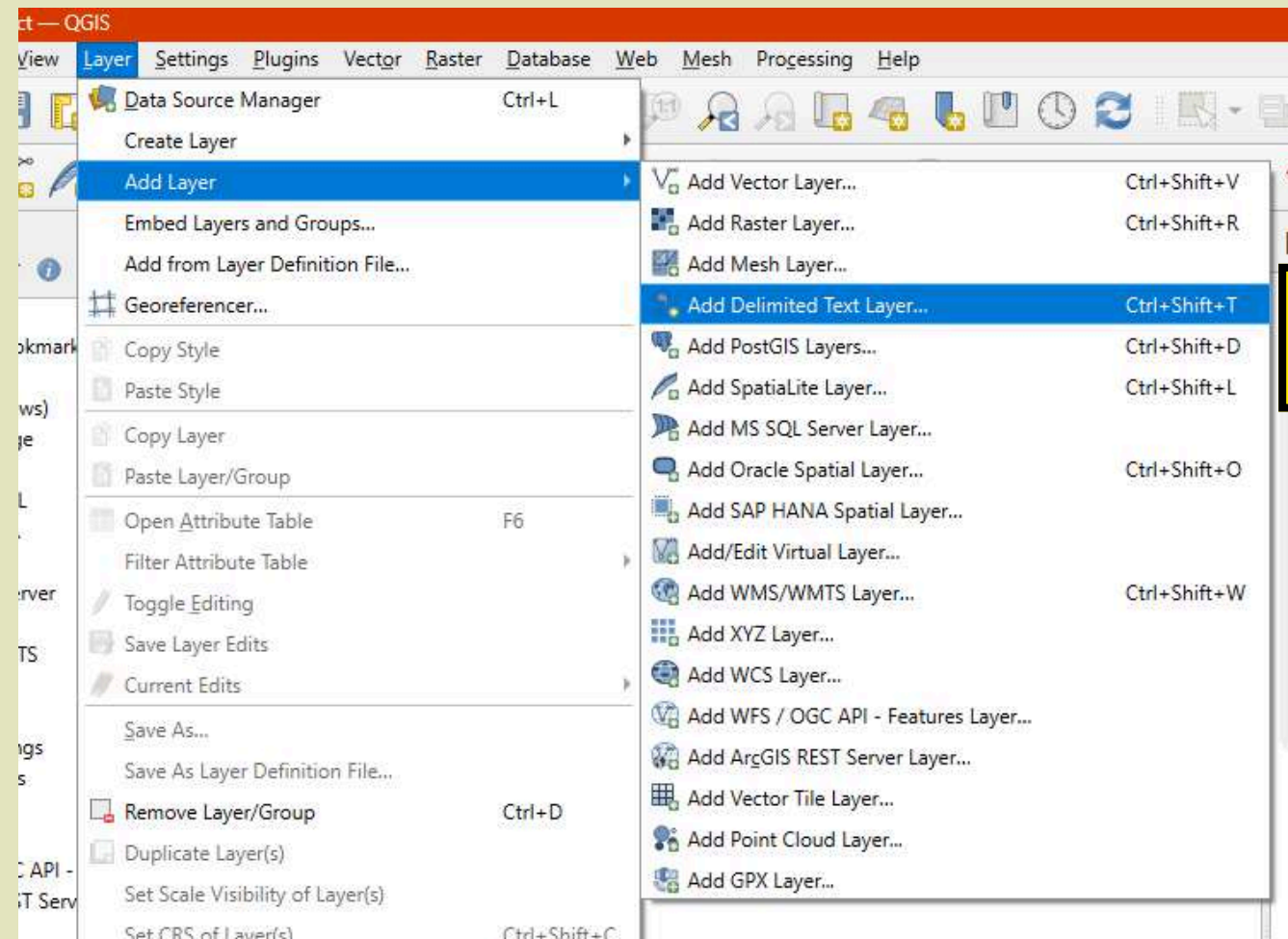
3. IMPORT THE ATTRIBUTE TABLE (CSV FILE) IN QGIS

**Menu Layer >>> Add Layer >>>
Add Delimited Text Layer**



4. SAVE THE TREES AS A SHAPEFILE (SHP)

**Menu Layer >>> Add Layer >>>
Add Delimited Text Layer**

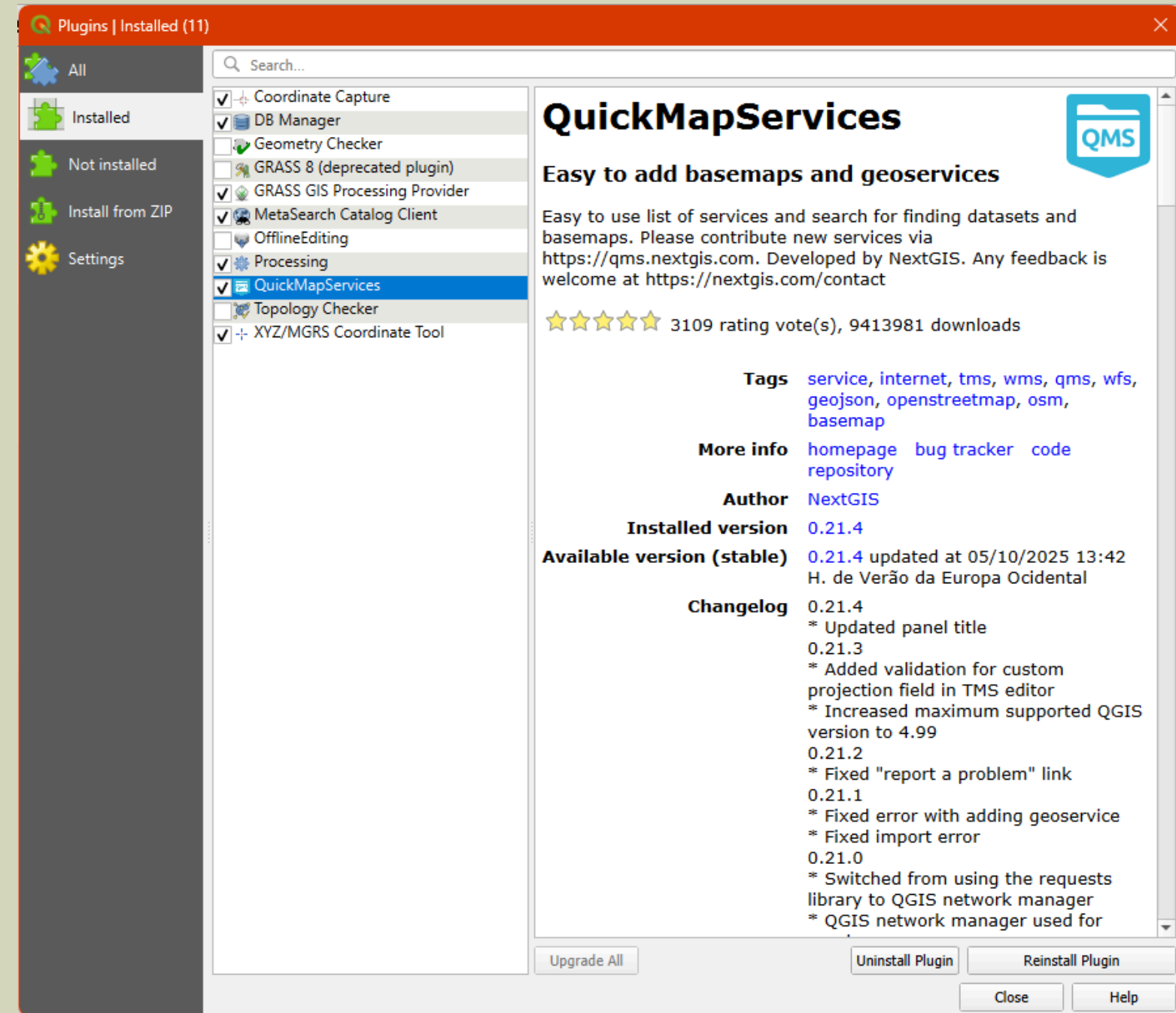


5. ADD SATTELLITTE VIEW (BACKGROUND)

Menu Plugins

>> Manage and install plugins

Install QuickMapServices



5. ADD SATELLITE VIEW (BACKGROUND)

Menu Plugins

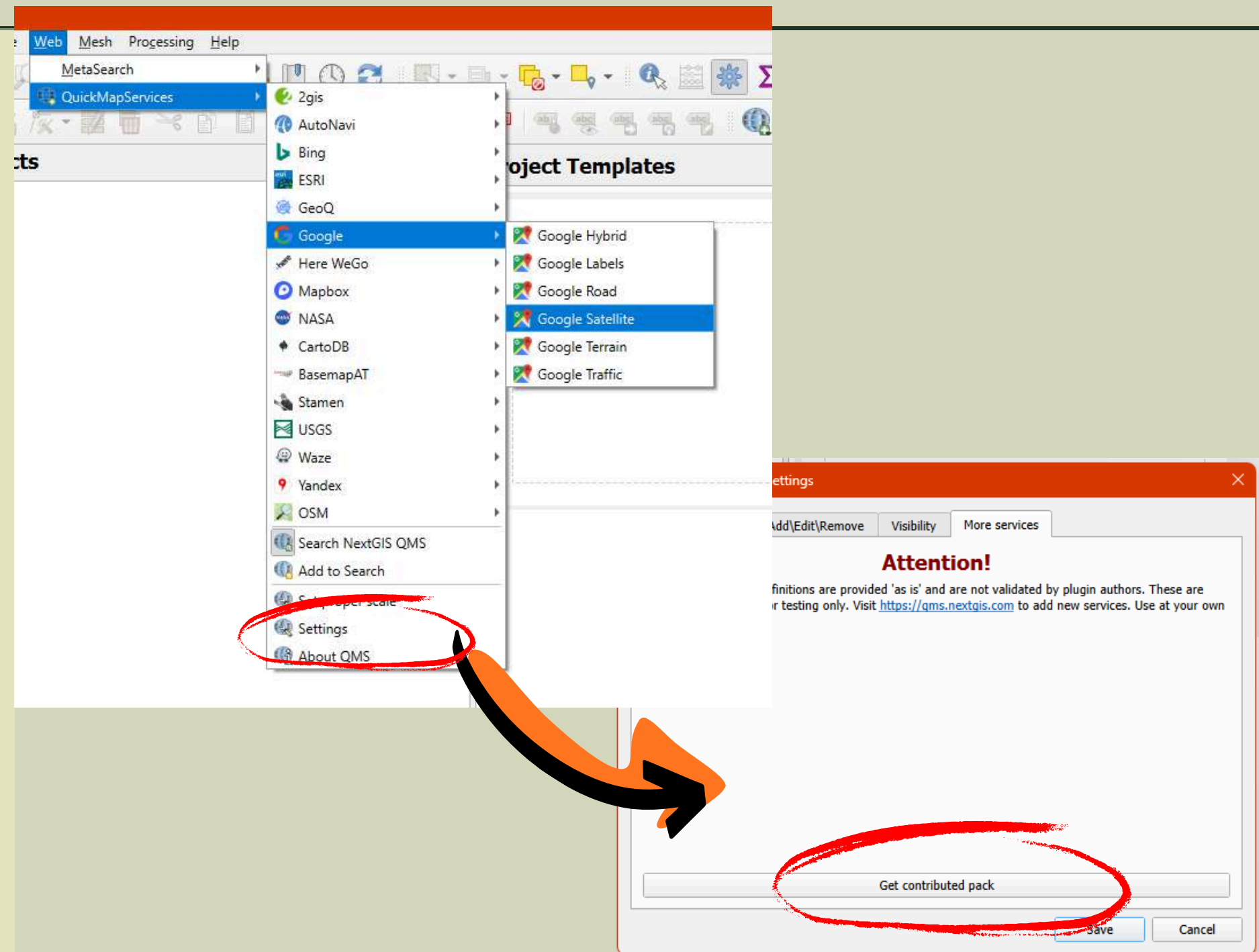
»» Manage and install plugins

Install QuickMapServices

Menu Web

»» Google

»»» Google Sattellite



Homework #2

DEADLINE: 20.10.2025

MAP POINTS FROM ELEMENTS OF YOUR
FAVORITE SPOT IN THE CITY
FOLLOWING THE STEPS PRESENTED
TODAY.

