

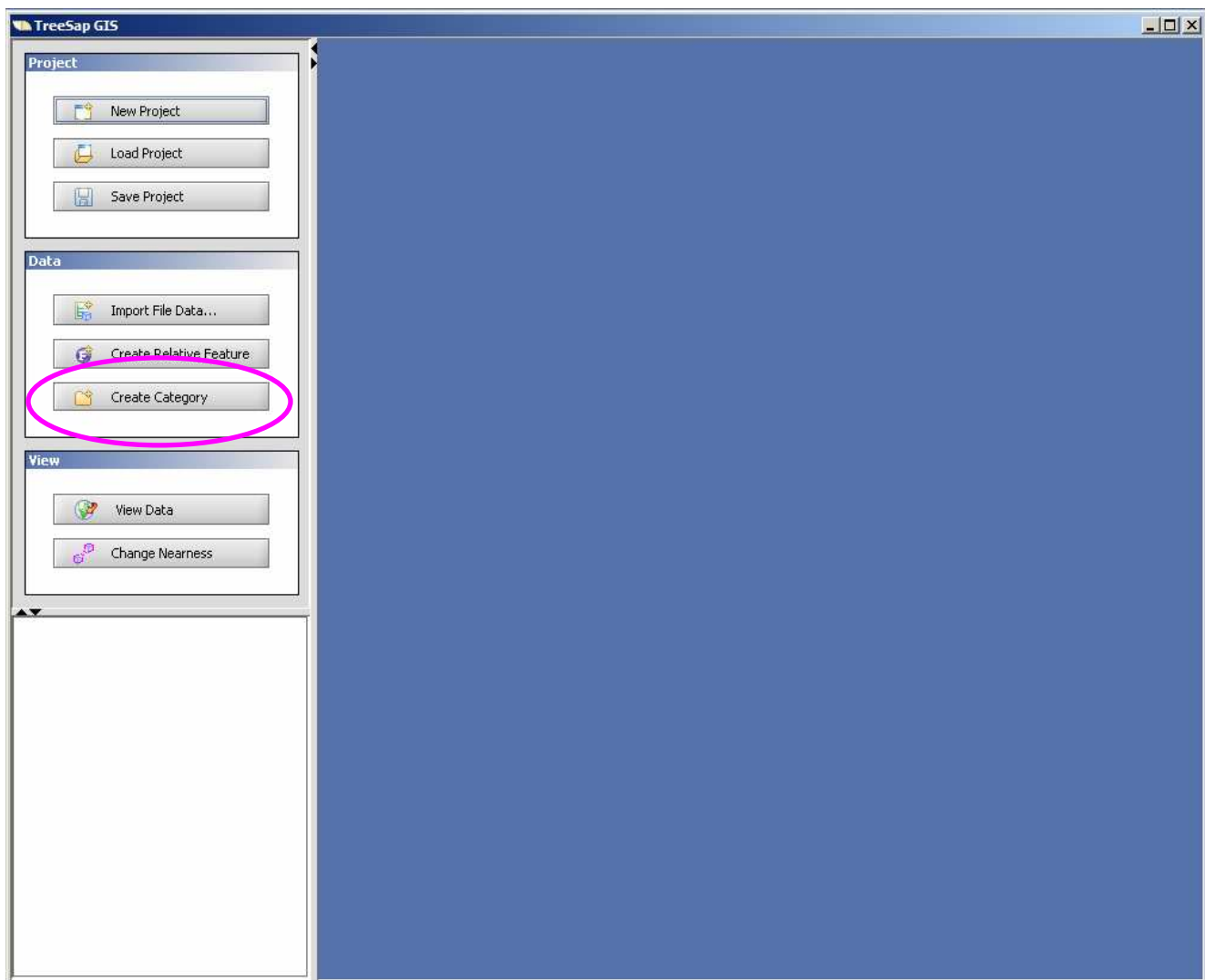
# Tutorial: Working with Projects

This tutorial steps through the creation of a project in TreeSap.

## CATEGORIES

- Feature data are stored in categories
- Categories also define the style for displaying features on a map

1. First we will create a category to represent roads as black lines on our map
  - Select the 'Create Category' button

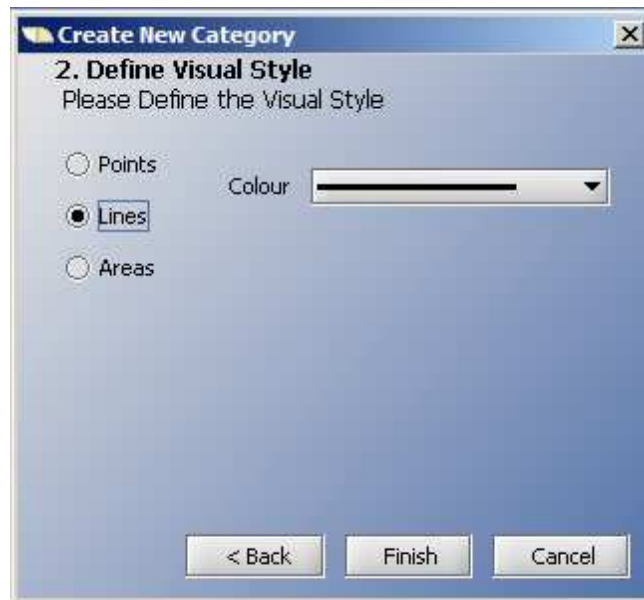


- Enter a category name
  - In this example use the name 'Roads'
  - Then click the 'Next' button



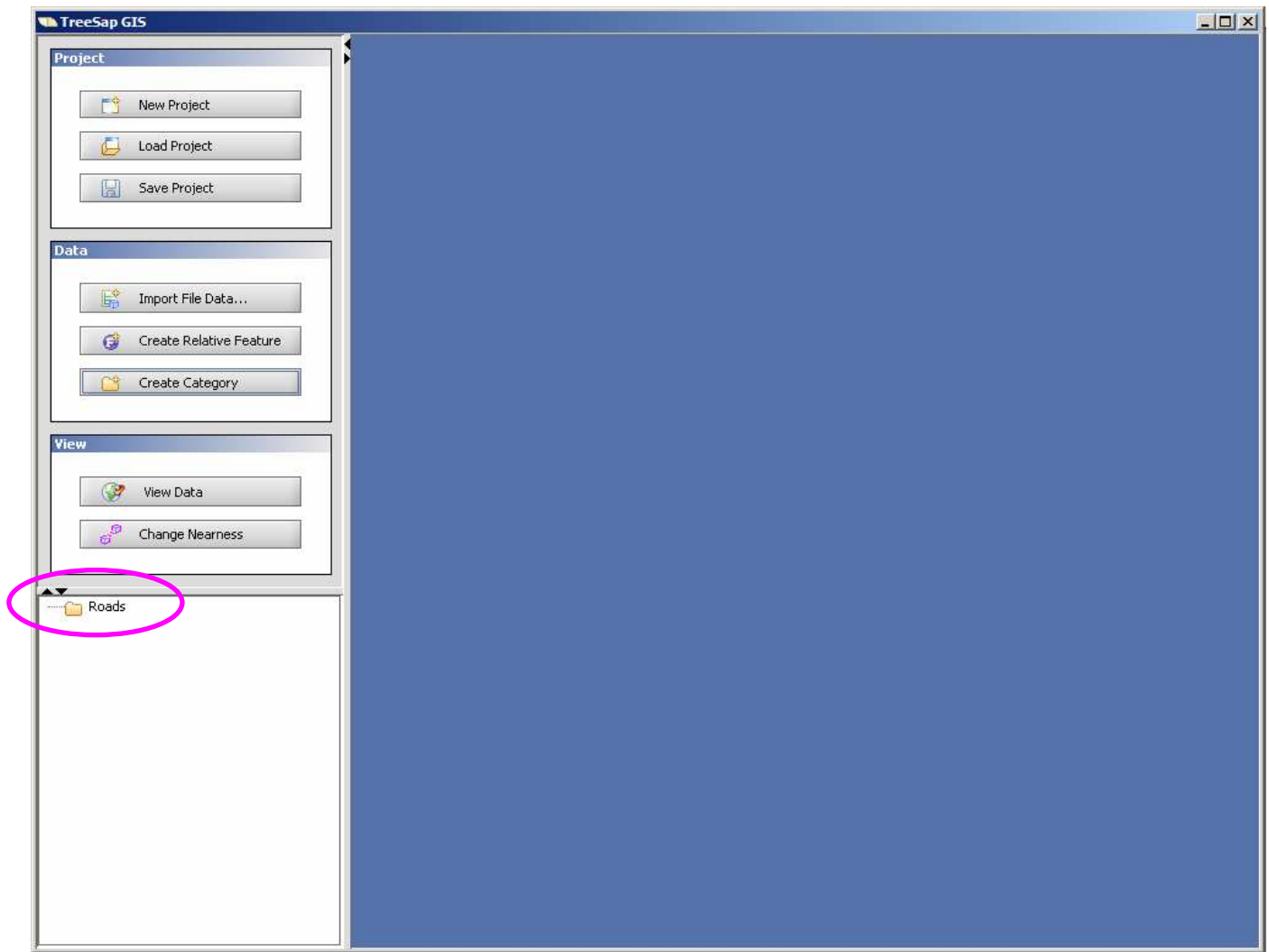
The screenshot shows a dialog box titled "Create New Category" with a close button (X) in the top right corner. The main heading is "1. Specify Name" and the instruction is "Please Specify the Category Name". Below this, there is a text input field labeled "Category Name:" containing the text "Roads". At the bottom right, there are two buttons: "Next >" and "Cancel".

- Specify the category's style
  - In this example we will make a road display as a black line
  - Click on 'Lines'
  - Click on the 'Colour' box and select black



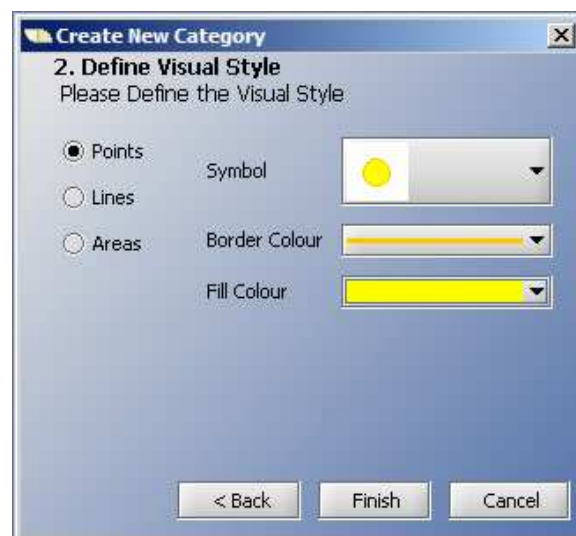
The screenshot shows the same dialog box, now at step "2. Define Visual Style" with the instruction "Please Define the Visual Style". There are three radio button options: "Points", "Lines" (which is selected), and "Areas". To the right of these options is a "Colour" dropdown menu showing a black line. At the bottom, there are three buttons: "< Back", "Finish", and "Cancel".

- We can now see that the 'Roads' category has been added to our project

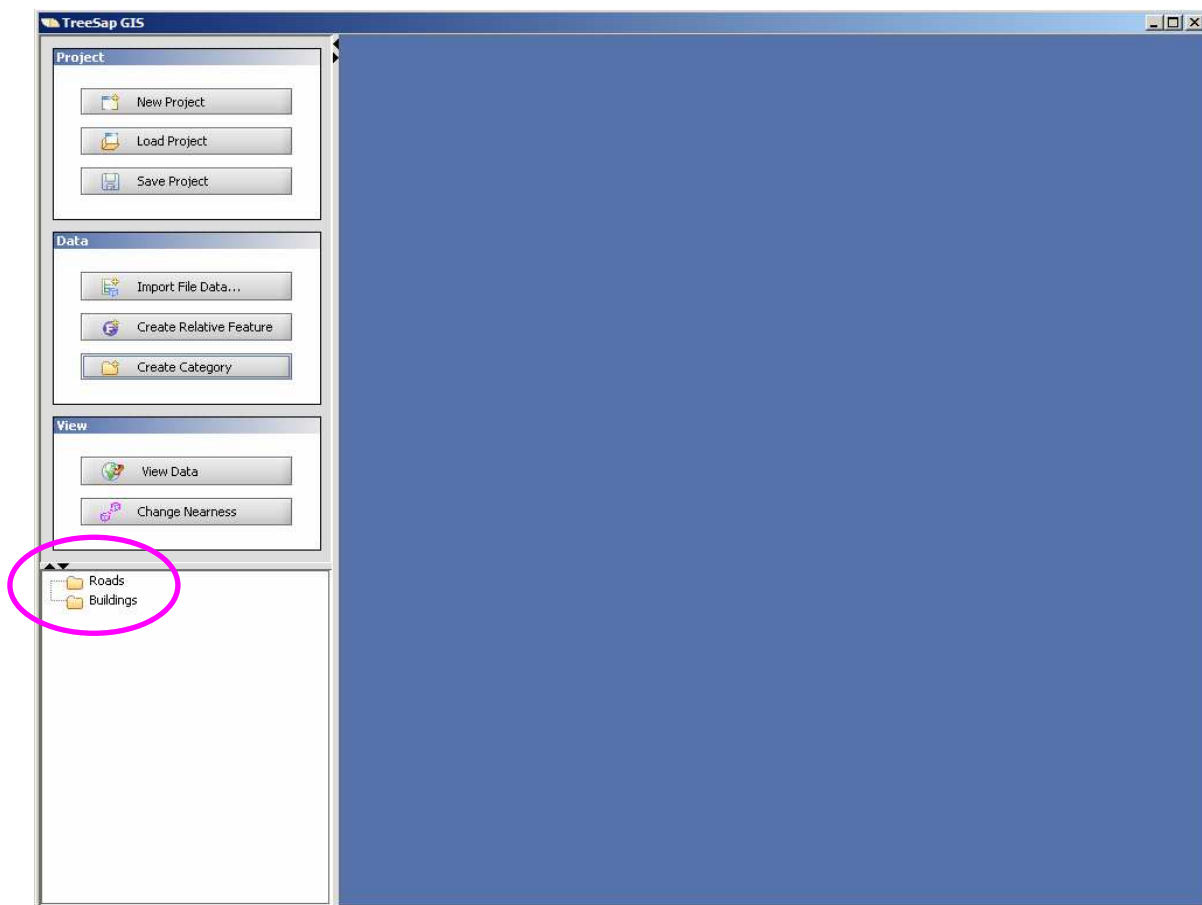


2. Now create another category to represent buildings as yellow circles, with an orange border

- Call it 'Buildings'
- We will now define the style
  - Click on 'Points'
  - Click on the 'Symbol' box and select the circle
  - Click on the 'Border Colour' box and select orange
  - Click on the 'Fill Colour' box and select yellow

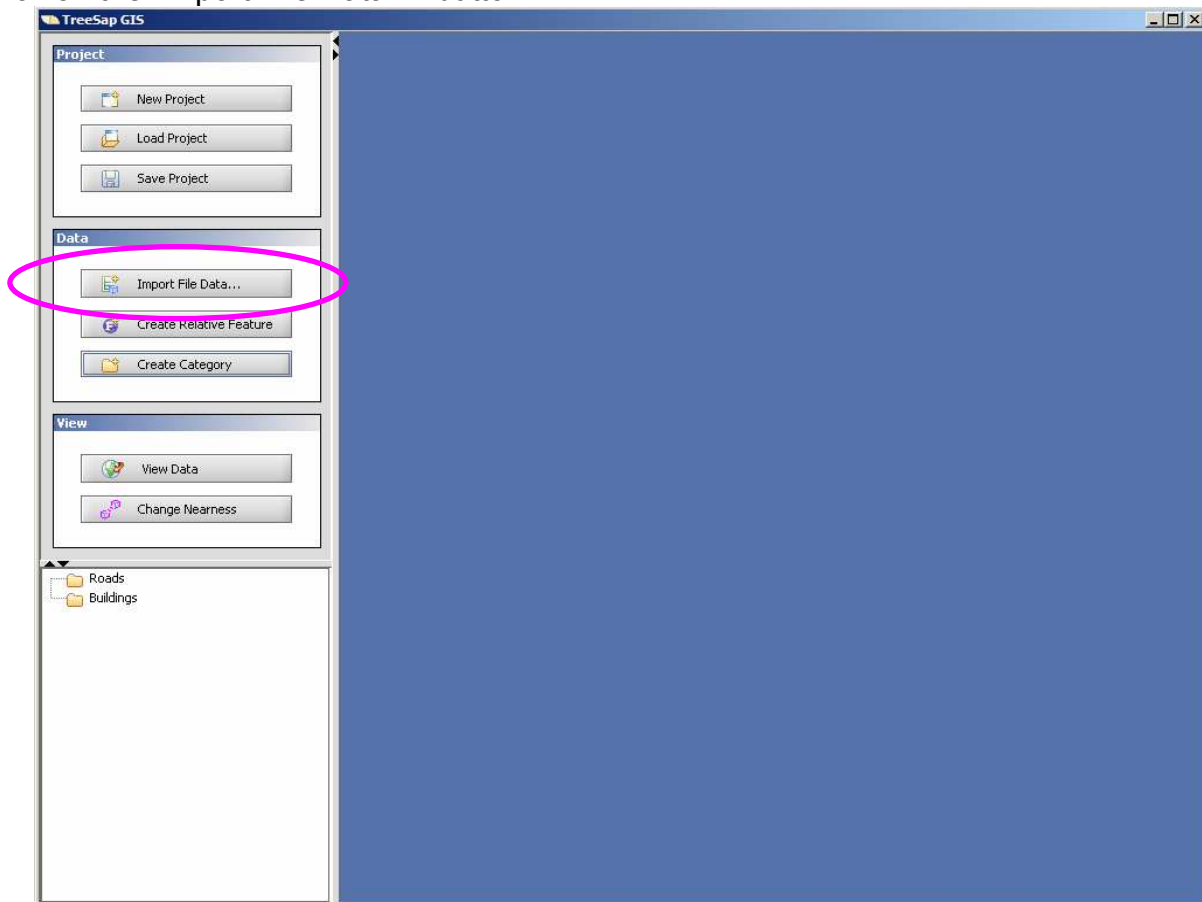


- Now we see that the 'Buildings' category has been added to our project

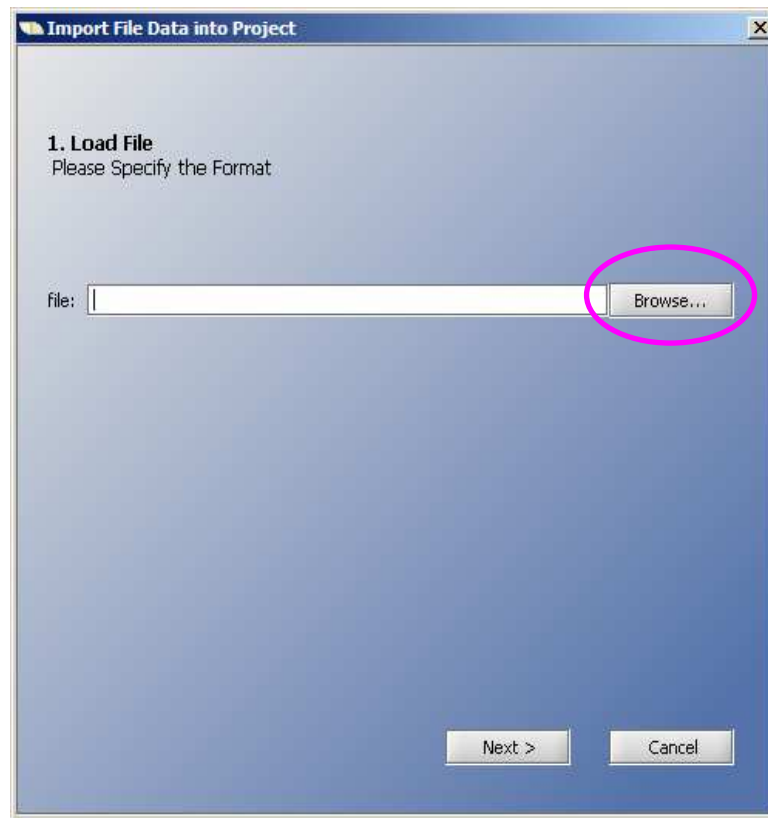


3. We will now import file data into our project

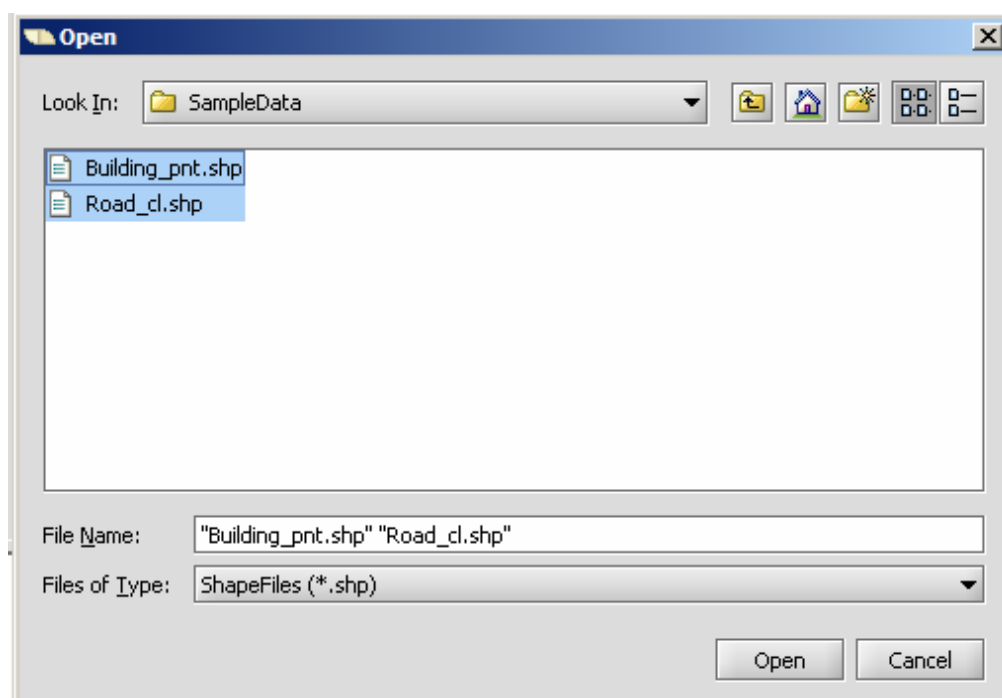
- Click on the 'Import File Data...' button



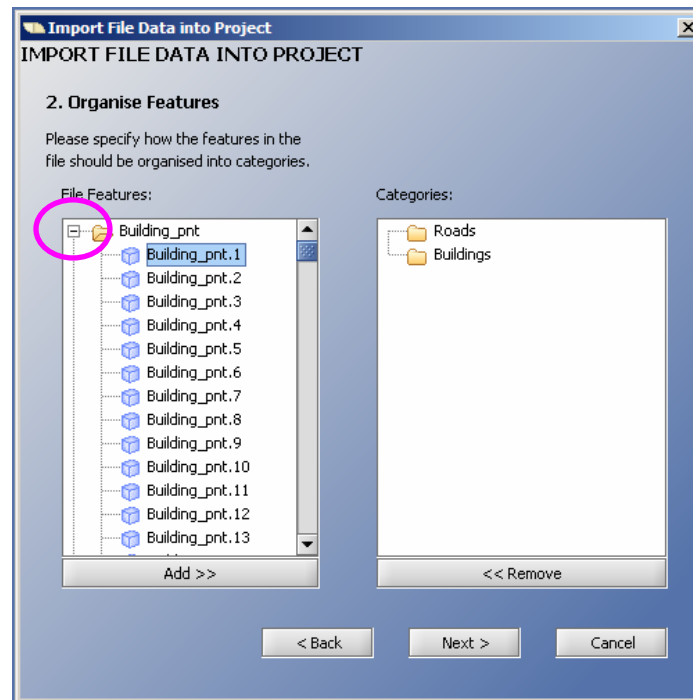
- Specify the files to load
  - Click on the 'Browse' button



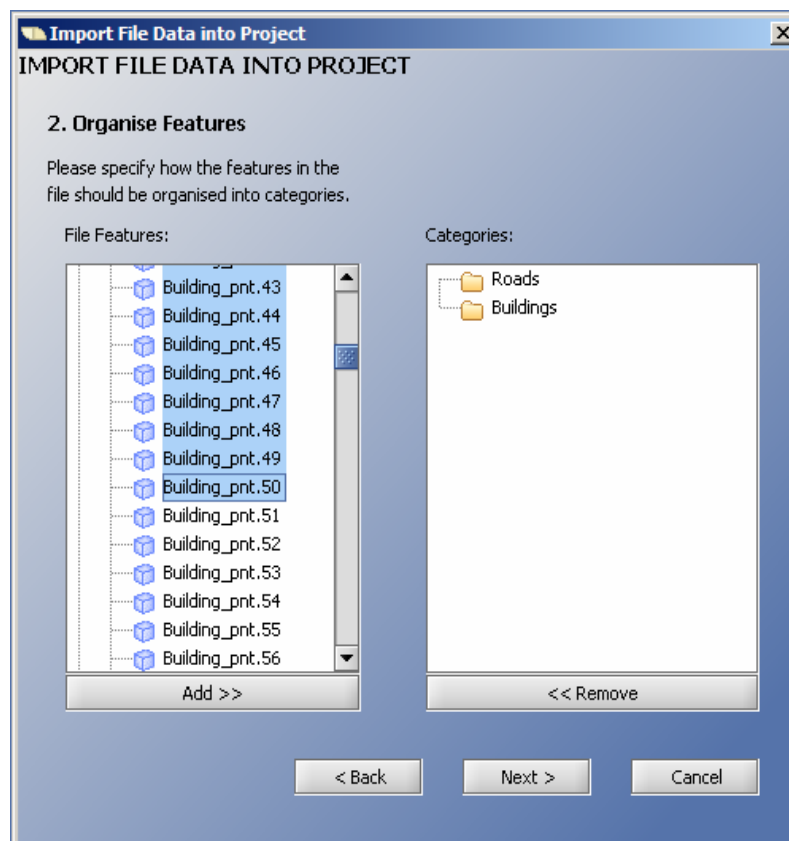
- Go to the directory
  - /Tutorial/SampleData/
- Select the files:
  - 'Roads\_cl.shp'
  - 'Buildings\_pnt.shp'
- Then click the 'Open' button



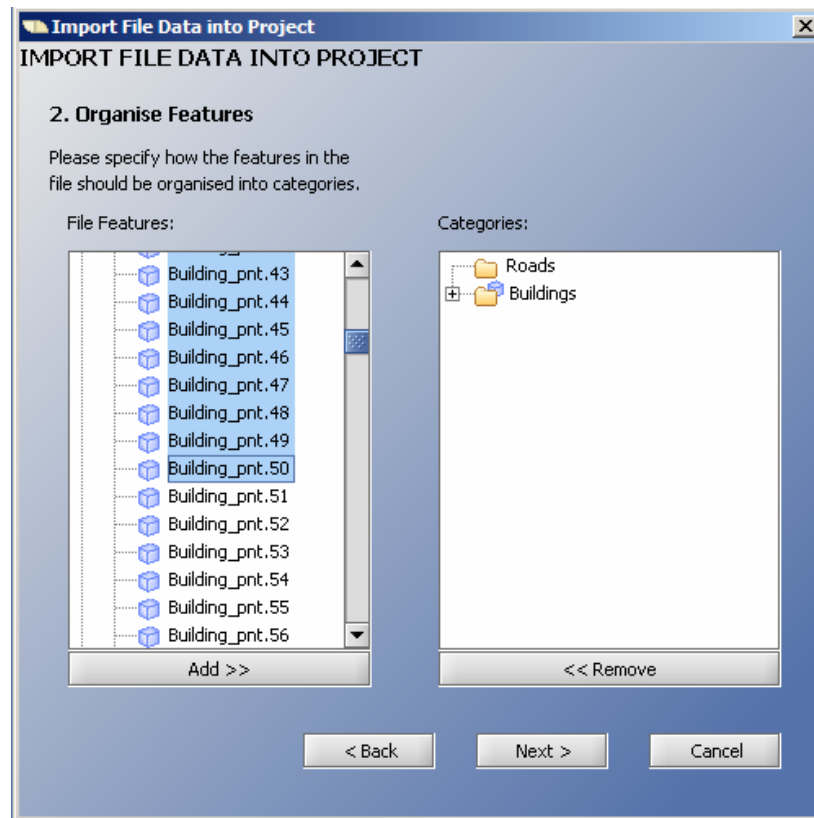
- Now we will specify what features we be placed in the categories – we will first move the ‘Building\_pnt’ data into the ‘Buildings’ category
  - Click on the ‘+’ symbol to the left of the ‘Building\_pnt’ (to see its contents)
  - Select the first entry (“Building\_pnt.1”)



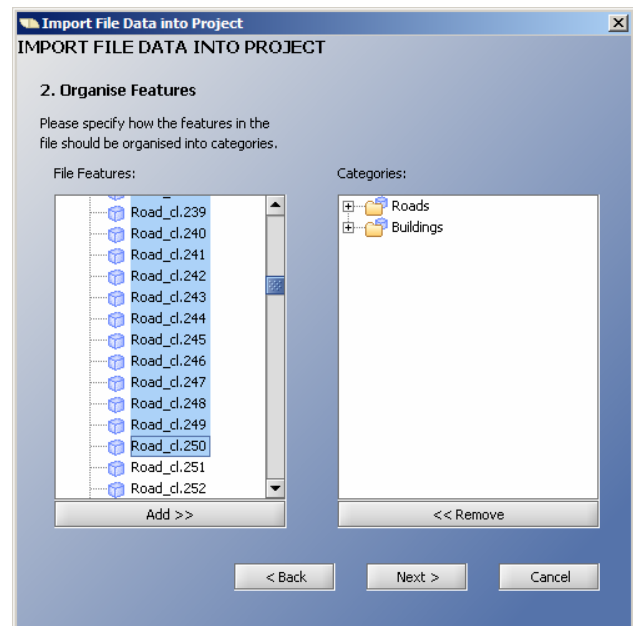
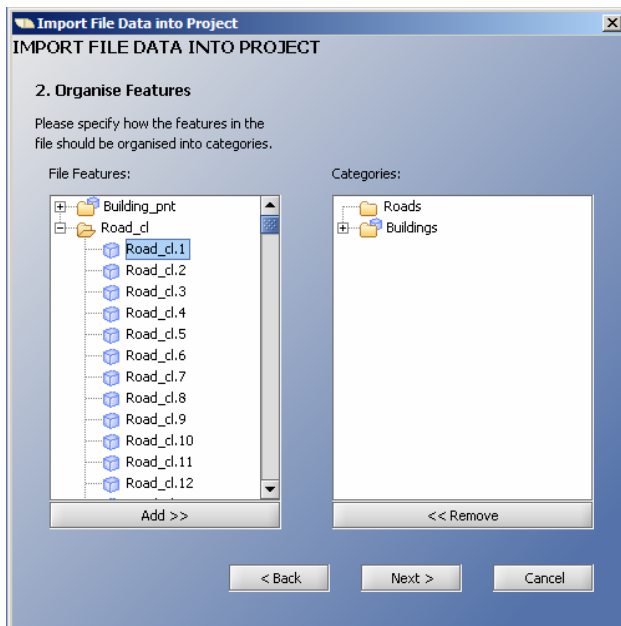
- Scroll down – then hold shift and click on the entry titled “Building\_pnt.50”
- This will select all entries between “Building\_pnt.1” and “Building\_pnt.50”



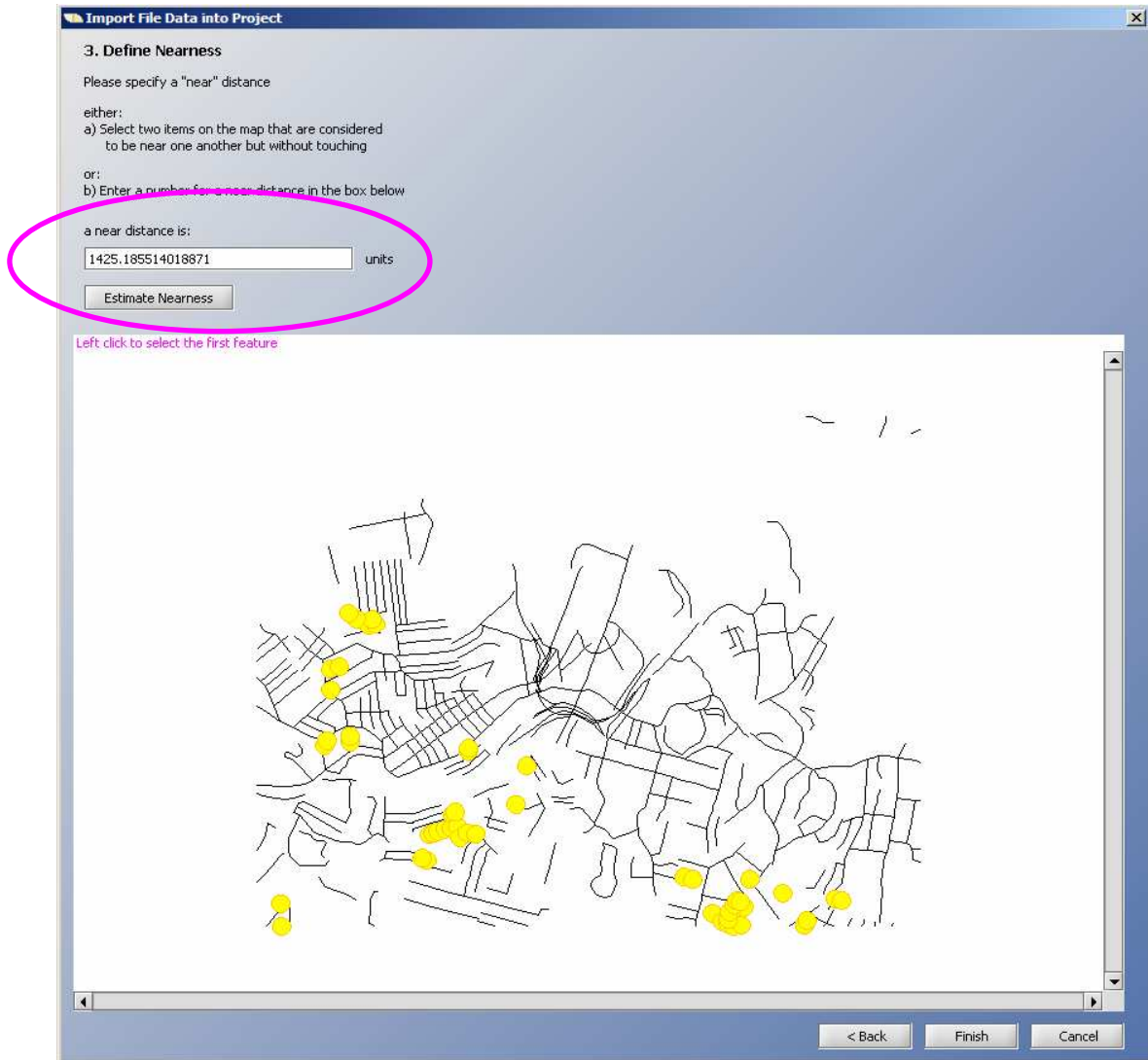
- Next, click and drag the selected items into the 'Buildings' category (on the right panel)
- A blue 'feature' symbol now appears under the 'Buildings' category to show that it now has some contents



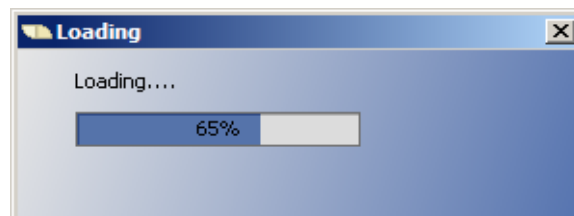
- Repeat this for roads – we will use entries from “Road\_cl.1” to “Road\_cl.250”
  - After doing this, click the 'Next' button



- We will now specify what a 'near' distance is
  - TreeSap automatically provides an estimate of a 'near' distance
  - If you choose, you can select two features on the map that you consider to be 'near' each other
  - Once a near distance has been established, click the 'Finish' button

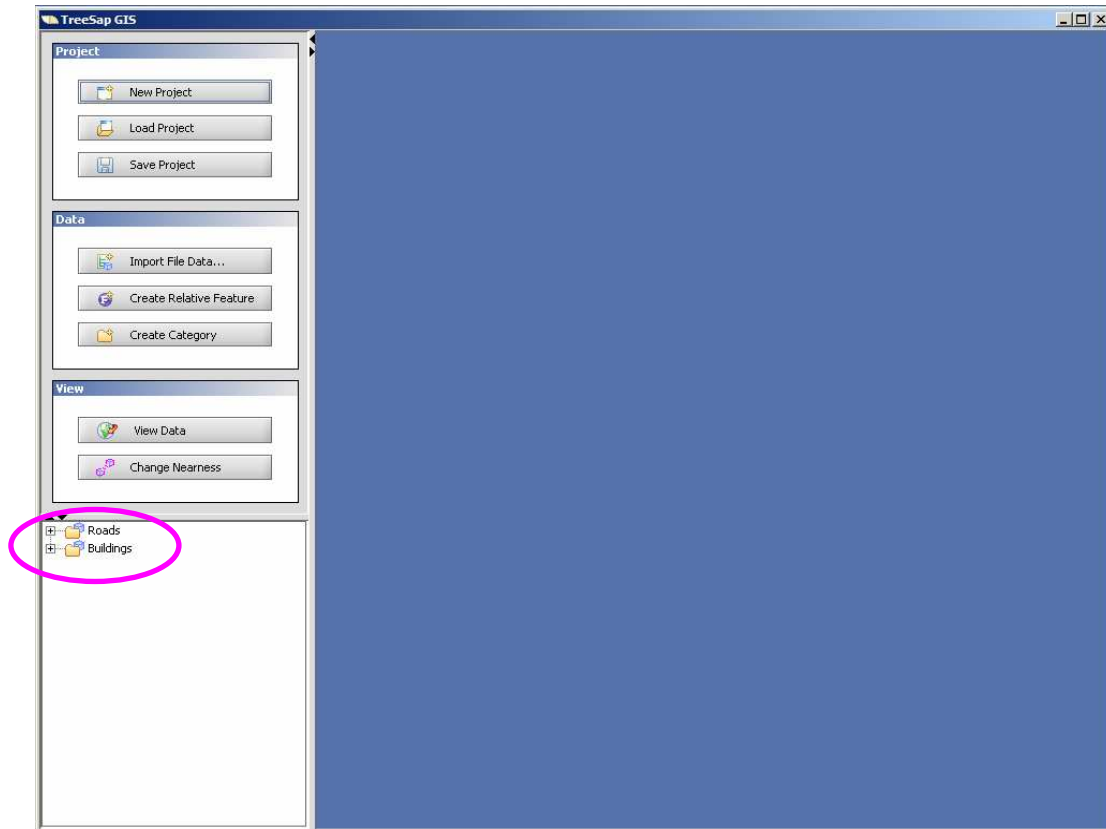


- TreeSap will now load the data into the project, and generate a 'relationship network' that is used for query support
  - The progress is indicated in a popup box

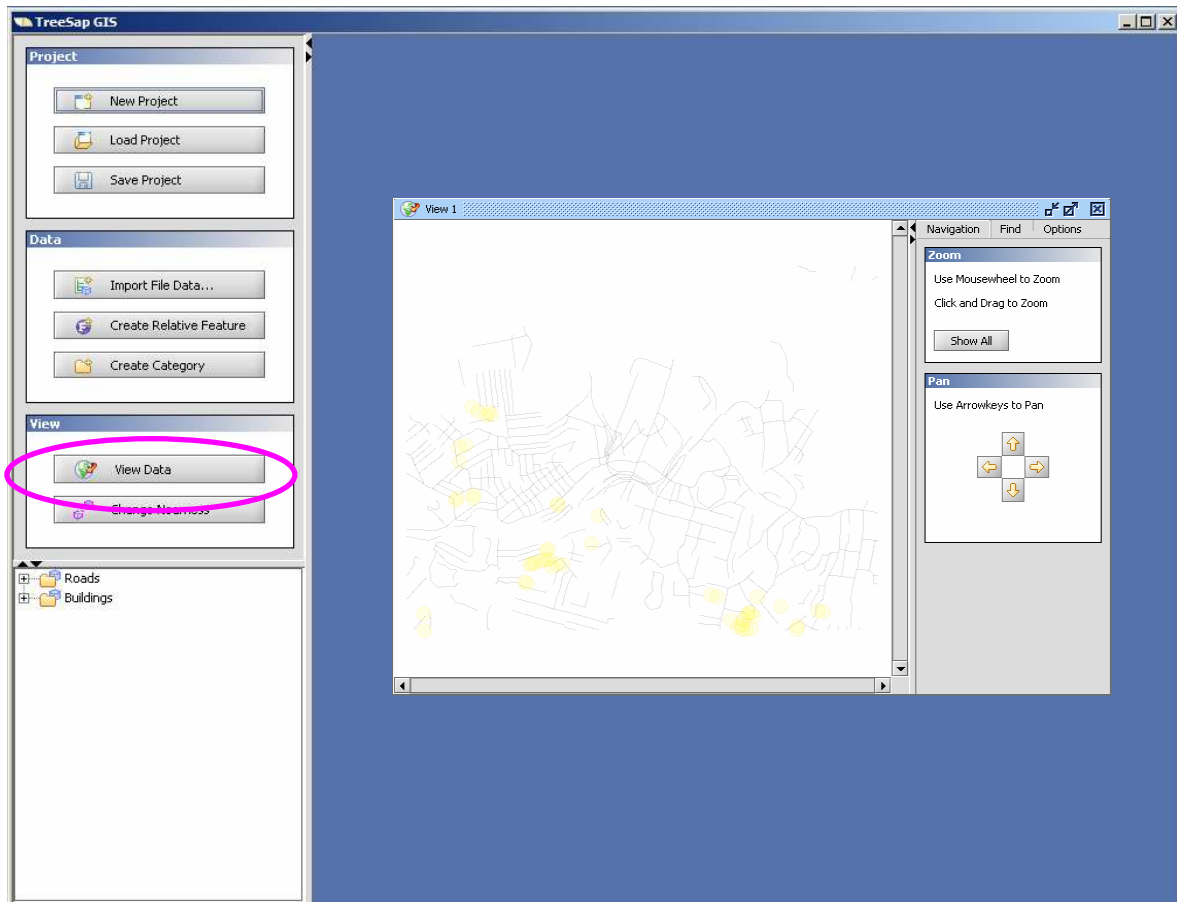




- We can now see that the project categories have soon features

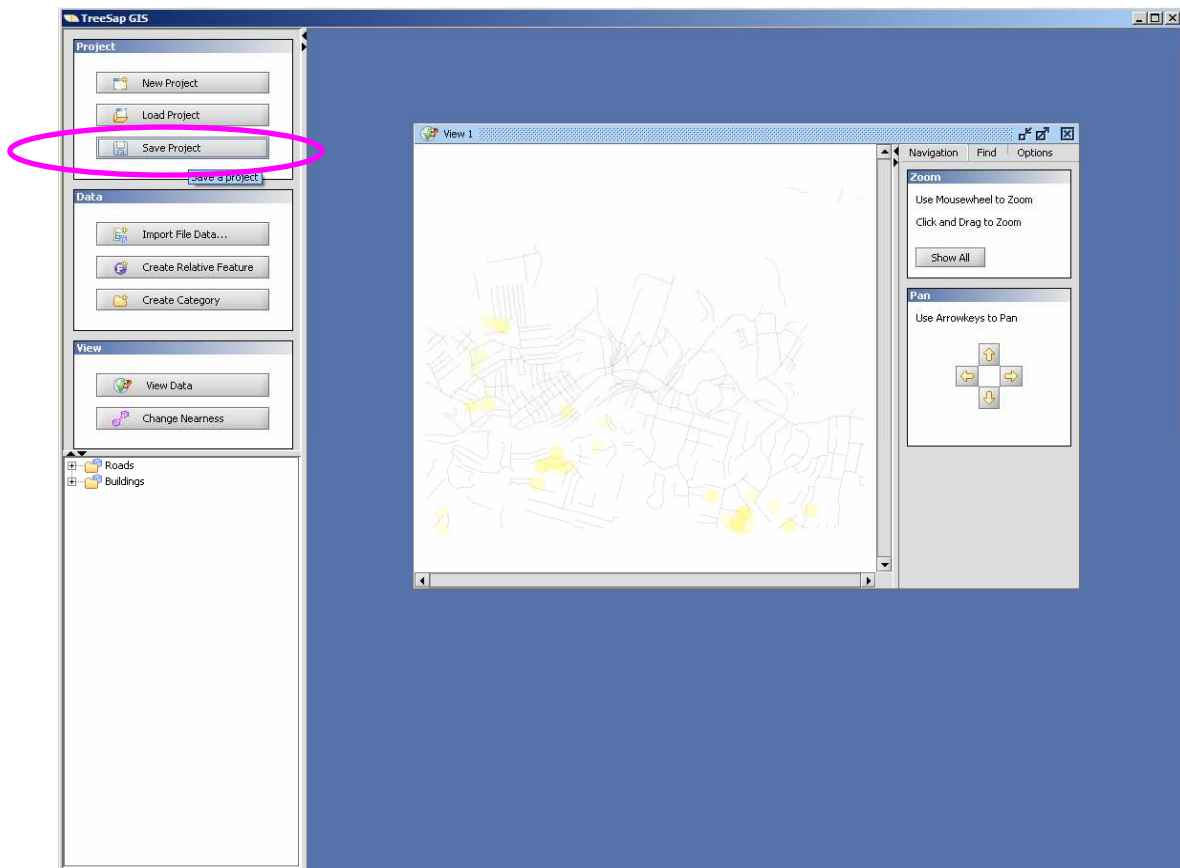


- We can open up a view of the data by clicking on the 'View Data' button
  - The data looks quite transparent at the moment – this is because we haven't yet specified what part of the data we want to look at
  - Querying is covered in the next tutorial "Querying Using TreeSap"

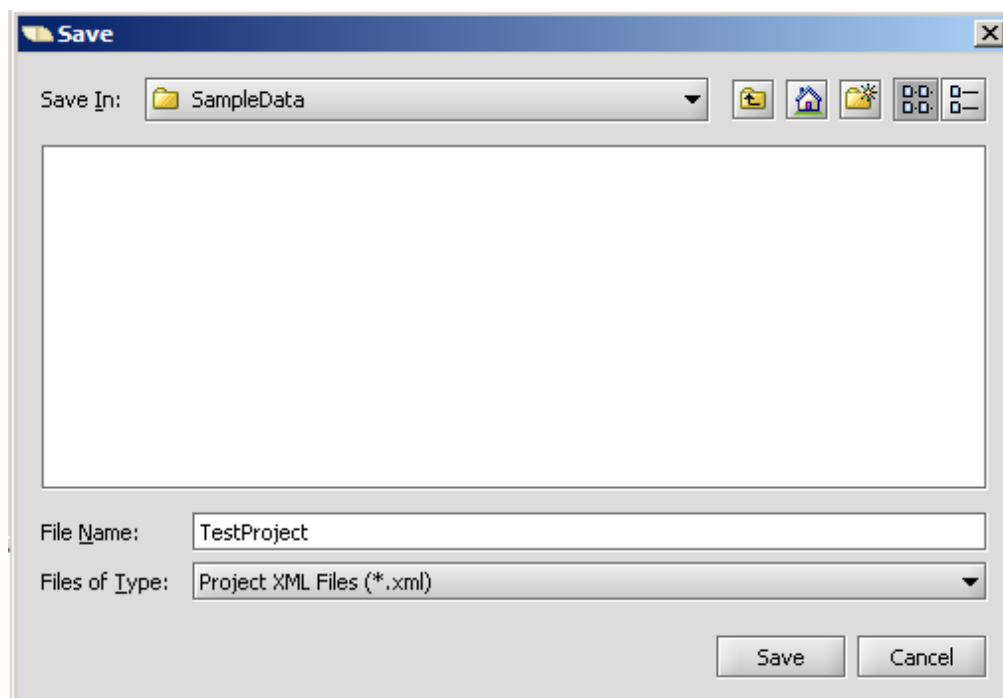


#### 4. We will now save our project

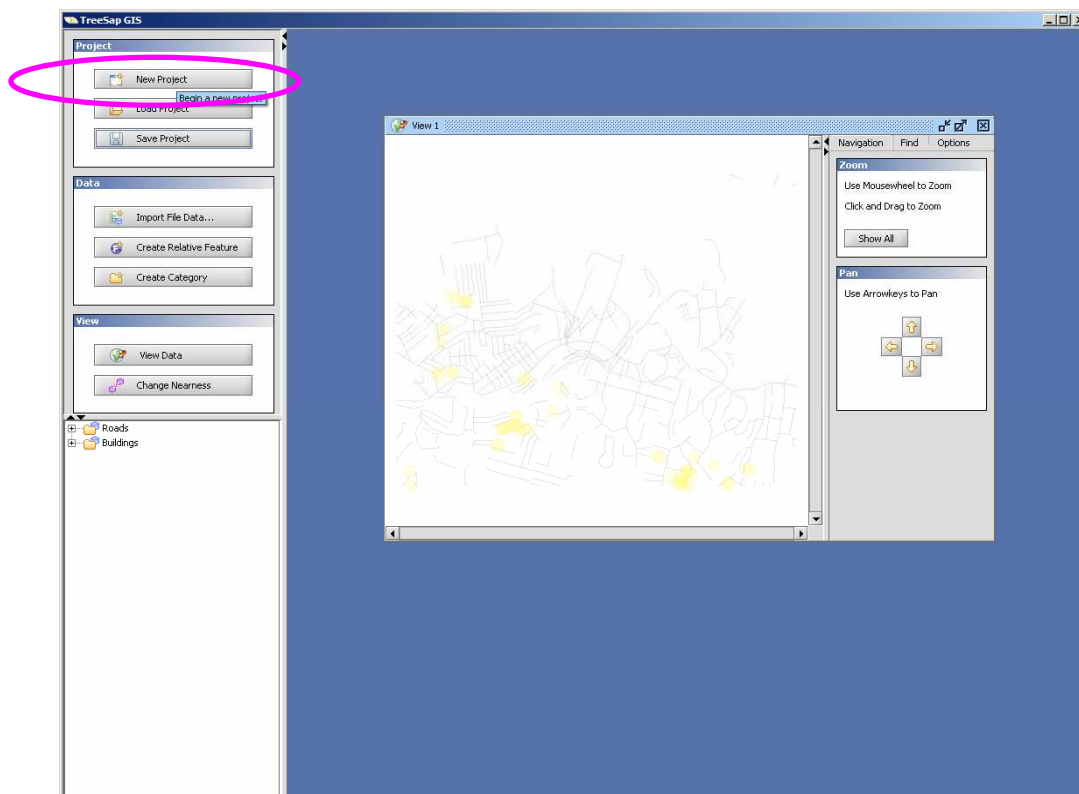
- Click on the 'Save Project' button



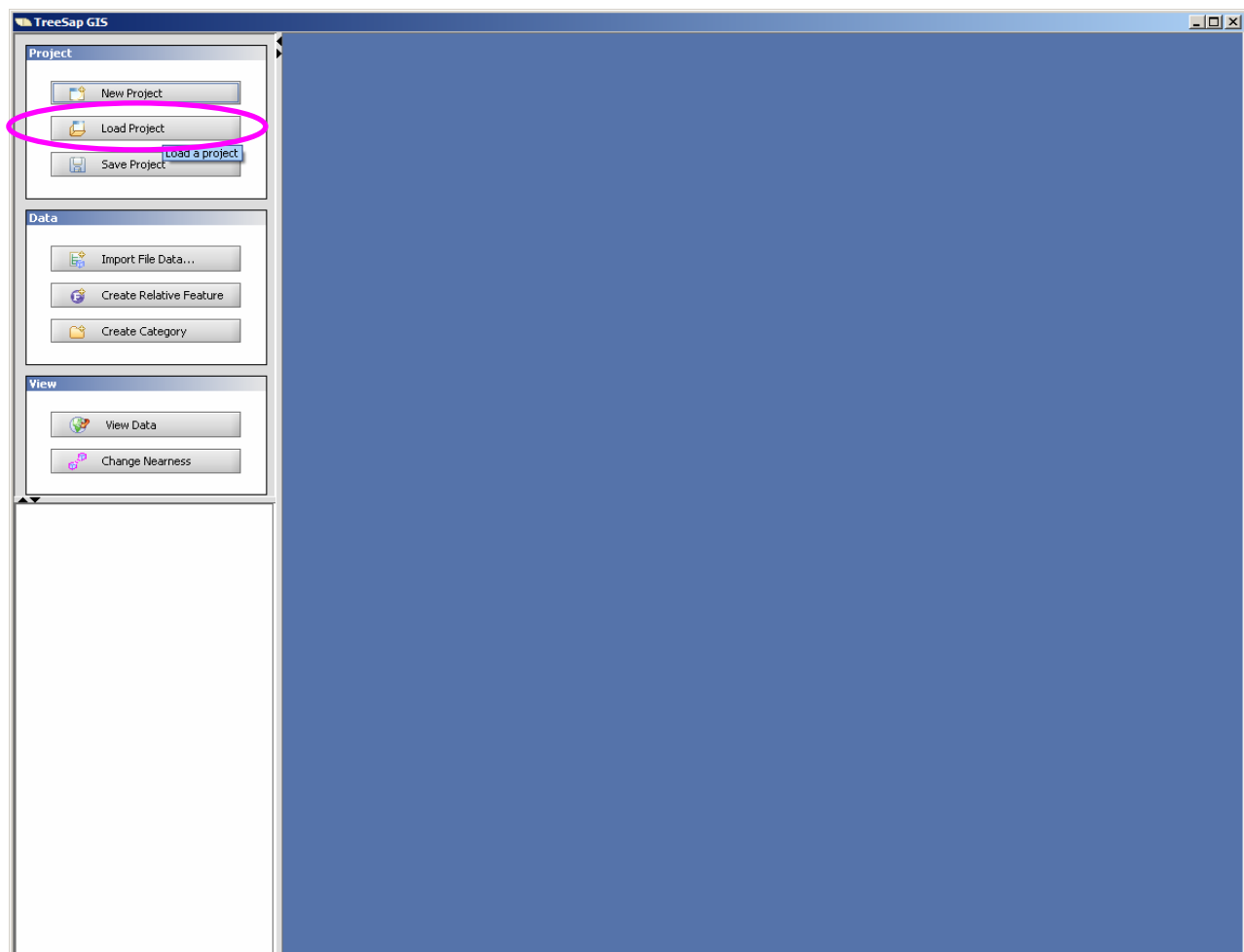
- Now specify a project file name
  - For example "TestProject"
  - The file will be saved as an XML file (with the .xml extension added automatically)
  - Click on the "Save" button



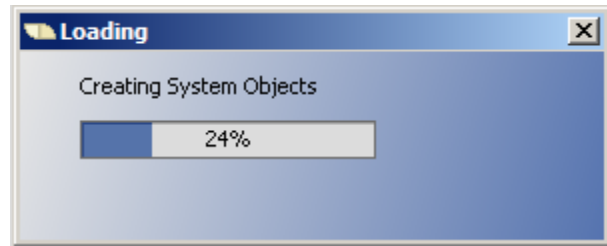
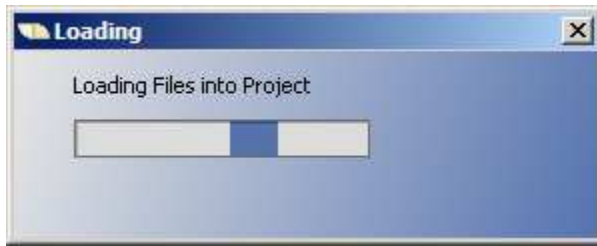
5. Now we will load this project back into TreeSap
- Click on “New Project” to close the current project



- Now click on “Load Project”
  - Select the project file that we created previously



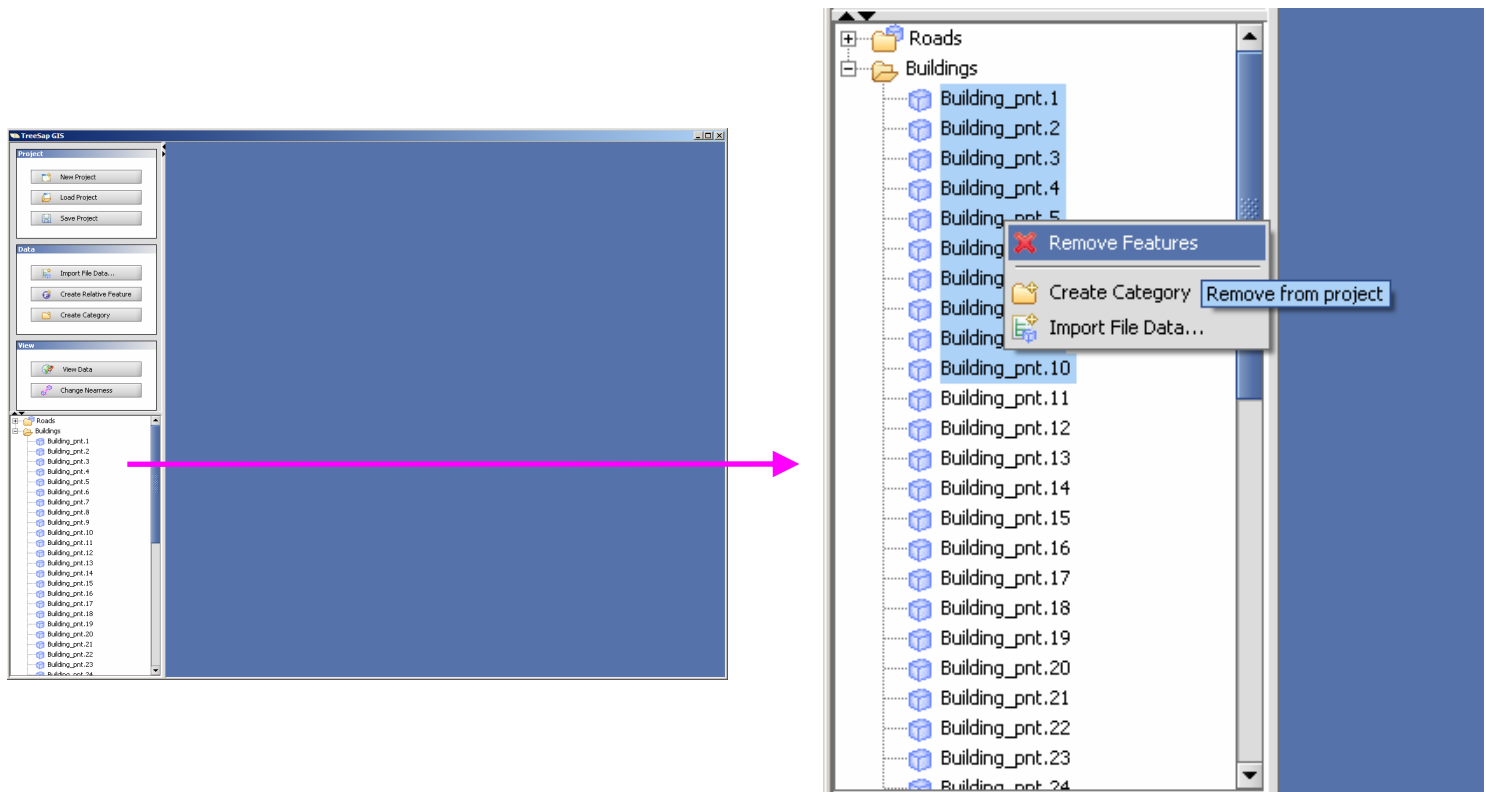
- The first phase involves loading the data from the files
- The following phase involves generating the relation network



- We can now see that the project has been loaded into the system

6. Now we will change the current project by editing category styles and names, and removing features

- To remove features from a category:
  - *right click* on the features (or a group of selected features)
  - Select "Remove features" from the menu



- To change the name or style of a category:
  - *right click* on the category
  - Select "Change name" or "Change style" from the menu

