**How to use the railway basemap?**

First, download the excel files containing the IDs:

vasuti\_vonalszakaszok\_ID.xls

vasutallomasok\_ID.xls

Using the ID-s build up your own database. If you want to have a map about Szamosvölgy railroad, then select the entities belonging to that railroad including the column of IDs..

|  |  |
| --- | --- |
| Szamosvölgyi Vasút lines | Szakasz ID (Line ID) |
| Apahida–Dés | 16 |
| Dés–Zsibó | 158 |
| Dés–Betlen | 157 |
| Betlen–Sajómagyaros | 80 |
| Sajómagyaros–Beszterce | 587 |
| Zsibó–Zilah | 832 |
| Beszterce­–Borgóbeszterce | 76 |

As the second step select railway stations of Szamosvölgy railroad from table vasútállomások\_ID.xls

|  |  |  |
| --- | --- | --- |
| stations of Szamosvölgyi Vasút | Állomási ID (station ID) | **to be visualized** |
| Dés | 5073 | **I** |
| Alsózsuk | 5065 |  |
| Válaszút-Bonchida | 5067 |  |
| Nagyiklód | 5068 |  |
| Dengeleg | 5069 |  |
| Szamosújvár | 5070 |  |
| Szamosújvárnémeti | 5071 |  |
| Apahida | 792 | **I** |
| Borgóbeszterce | 5132 | **I** |
| Jád | 5127 |  |
| Oroszborgó | 5128 |  |
| Borgóprund | 5131 |  |
| Sajómagyaros | 3254 | **I** |
| Somkerék | 5118 |  |
| Bethlen | 5117 | **I** |
| Retteg | 5114 |  |
| Csicsókeresztúr | 5115 |  |
| Kapjon | 5075 |  |
| Kackó | 5076 |  |
| Galgó | 5078 |  |
| Szamossósmező | 5079 |  |
| Oroszmező | 5080 |  |
| Nagyilonda | 5081 |  |
| Büdöspataka | 5082 | **I** |
| Hosszúrév | 5083 |  |
| Létka | 5084 |  |
| Kocsoládfalva | 5085 |  |
| Aranymező | 5086 |  |
| Szurduk | 5087 |  |
| Beszterce | 3259 | **I** |
| Szeretfalva | 3256 |  |
| Zilah | 2652 | **I** |
| Zsibó | 5089 | **I** |
| Szilágypaptelek | 5104 |  |
| Nyírsid | 5105 |  |

In the next step convert your xl file into csv. Open OpenOffice programot read the xls files the click on Save as. Pop-up window should be saved as below:



This file will be opened by QGIS (which is downloadable free of charge from the internet).

**How to use QGIS to open and visualize data?**

After installing QGIS on your PC please also copy the following files into your computer:

vasutallomas.dbf

vasutallomas.shp

vasutallomas.shx

vasutvonal.dbf

vasutvonal.shp

vasutvonal.shx

After opening QGIS read the following two files:

vasutvonal.shp

vasutallomas.shp

To open the two files watch the following video:

**01\_vektoros\_retegek\_beolvasasa.mp4**

The next step is to open the csv files converted from the xls. For this watch the next video:

**02\_szoveges\_retegek\_beolvasa.mp4**

Then we have to join the data to the vector layers. Data (csv) on railway stations should be attached to the vector file about the railway stations, while the csv file containing information on railway lines should be attached to the vector file about railway lines. For these step watch the videos below:

**03\_osszekapcsolas\_vasutvonalak.mp4**

**04\_osszekapcsolas\_vasutallomasok.mp4**

Then we read in the names of raiway stations to be visualized:

**05\_vasutallomasok\_neve.mp4**

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**The map after the fifth step**

And finally to export our result (maps) watch the following video:

**06\_terkep\_exportalasa.mp4**

**Should you have any questions please contact:**

**Frisnyak.Zsuzsa@btk.mta.hu.**