

# Directions for use v1.1

## WebGIS portal of the city of Trenčín

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### WebGIS Portal

WebGIS portal of the city of Trenčín can be divided into the following parts:

1. **Map** – serves for showing a map composition defined by a user
2. **Tool bar** – allows setting of a section of a map, movement on a map, measurement and display of descriptive information
3. **Control panels** – there, in individual folders, there are grouped tools for working with data (possibility to turn on/turn off the layers, setting of the scale, setting of printing)

When the size of an internet browser window is changed, neither the size of a map window nor sizes of other areas are changed.

When pointing a cursor at individual tools in a tool bar, a bubble help will appear.

The screenshot shows the WebGIS portal interface for the city of Trenčín. At the top, there is a header with the city logo and the text "The city of Trenčín GIS portal" and "Trenčín's City office – Architecture and strategy department". Below the header, there is a tool bar with various icons for navigation and measurement, and a "Mapsize" dropdown menu set to "600x420". The current scale is displayed as "1:86 336" and the coordinates as "Coords (m): \_ / \_".

On the left side, there is a control panel with tabs for "Themes", "Navigation", "Help", and "PDF". The "Themes" tab is active, showing a "Map composition" dropdown set to "Default". Below this, there are three layers listed: "Frontier of" (checked), "Parcels" (unchecked), and "Orthophotograph map" (unchecked). A red "3" is placed next to the control panel.

The main map area shows a cadastral map of "Mesto Trenčín" with a red "1" in the top left corner. The map is surrounded by a pink border. Below the map, there is a scale bar from 0 to 8 km and a coordinate display.

At the bottom of the page, there is a disclaimer: "Does not serve for legal acts. The approved addendum n,2 'Railway line modernization' is not a part of this web site. The text part of the general city plan can be found on the city web site." Below this, there is a footer with the following text: "Powered by CartoWeb 3.4.0 © The city of Trenčín • © SWAGIS • Counter: 04418 • Cadastral map © ÚGKK SR • Orthophotograph maps provided by GEODIS SLOVAKIA, s.r.o., 2005 • Orthophotograph map © EUROSENSE, s.r.o., 2005 • General city plan prepared by AUREX, s.r.o."



## Map

Map compositions defined by a user are shown on the map. The layers shown on the map are defined by marking them in a folder *Layers*.

After any change in a setting of displayed layers it is necessary to push *Refresh* button which is located above *Control panels*. After it is pushed, WebGIS portal will regenerate a map with marked layers. With a button *Reset environment* WebGIS portal of the city of Trenčín can be set into an original status.

Around the map, there are eight arrows by which the map can be moved by a fixed distance in any of the eight directions.

Between the map and the tool bar there is an information area. On the left, there is an actual scale of a displayed map shown and on the right, there are geographic coordinates of a cursor which moves over the map. Coordinates are displayed in a coordinate system S-JTSK.

Under the map, there is a dynamic graphic scale displayed which shows an actual scale of the displayed map. When measuring a distance or an area, there is an entry displayed between the map and graphical scale about a length or an area.

## Tool bar

The tool bar allows setting of a map section, movement across it as well as a measurement of a distance and areas in the map and descriptive information display. Individual tools are activated by clicking on a tool symbol.

Description of the individual tools:



**Map enlargement** – it's possible to enlarge/zoom in the map either by a simple click into the map on a place which we want to enlarge/zoom in or by marking a rectangle over the area of enlargement/zoom in (press a mouse button, pull towards a desired direction and release the mouse button)



**Map reduction** – reduce/retreat from the map is possible by a simple click into the map on the place we want to reduce/retreat from



**Show the entire map** – after clicking on this button the map will show in a maximum possible section view



**Map shifting** – the map can be shifted by pulling (click a mouse button and pull into a desired direction and release the mouse button), map shifting by a set distance can also be done by eight arrows located around the map



**Distance measurement** – the length is measured by clicking into the map on a measured object while the distance is being added till the end of the measurement which is ended by a double click; if you want to measure a distance between two points, you need to click on the first point once and on the second point twice (double click)



**Area measurement** – the area is measured by clicking into the map on a measured object while the area is being added till the end of the measurement which is ended by a double click; if you want to measure a triangle, click once on the first and the second point and twice (double click) on the third point



**Attributes display** – after clicking on a place where an object, which we want to display the descriptive information about, is located, this information will display under the map, the information will display from all layers which are turned on and contain the descriptive information in a place of clicking



**Map dimension** – map dimension can be set according to a need into pre-defined dimensions



## Control panels

In the area of control panels, there are four folders. There, it is possible to set what should be displayed in the map, an exact displaying scale, as well as map print into PDF.

### Layers

- allow turning the layers on  and off  in the map either individually before each of the map layers or together by icons   on the top of the folder
- after any change in of a layer it is necessary to push *Refresh* button which is located above Control panels
- buttons   allow group unpacking / packing of topical layers which can be also done individually by buttons   located before the topical layers
- a symbol  marks a layer which is not displayed in the map because the map scale is not suitable for its display (small detail); to display such layer it is enough to click on this symbol and the WebGIS portal will generate a new map in a desired scale
- a symbol  marks a layer which is not displayed in the map because the map scale is not suitable for its display (big detail); to display such layer it is enough to click on this symbol and the WebGIS portal will generate a new map in a desired scale
- an unpacking offer the Map compilation allows to switch pre-defined topical maps in which there are various map layers placed

### Navigation

- an active view map which displays a center of the displayed map by a red cross and also allows to move the map to a different place by a click
- a menu *Scale* allows to set an exact map scale in seven levels

### Help

- quick help which will make your first work with WebGIS portal easier
- in the last point, there is a hypertext reference to a complete *Directions for use of the city of Trenčín's WebGIS portal* in a PDF format

### PDF

- allows printing of a user's created map composition into a PDF format
- first, it is needed to set a paper format to A3 or A4 and a final picture resolution
- then it is necessary to choose a final map scale
- then choose a map orientation
- finally, it can be decided whether there should be another map displayed in the map
- the map will be printed by pressing a *Print* button by a *Form Reset* button an original settings of a *PDF* control panel will be renewed