



Tvorba mapy v prostredí QGIS

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- Multiplatformový open-source geografický informačný systém
- Umožňuje prehliadanie, tvorbu, editovanie a analýzu priestorových údajov a tvorbu mapových výstupov
- Funkcionalitu rozširujú zásuvné moduly
- Inštalácia: [LTR verzia Firenze 3.28](#)
- Manuál: [QGIS User Guide](#)



Predstavenie používateľského rozhrania



1. Prehliadač

2. Panel vrstiev

3. Mapové okno

4. Hlavné menu

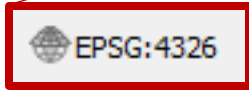
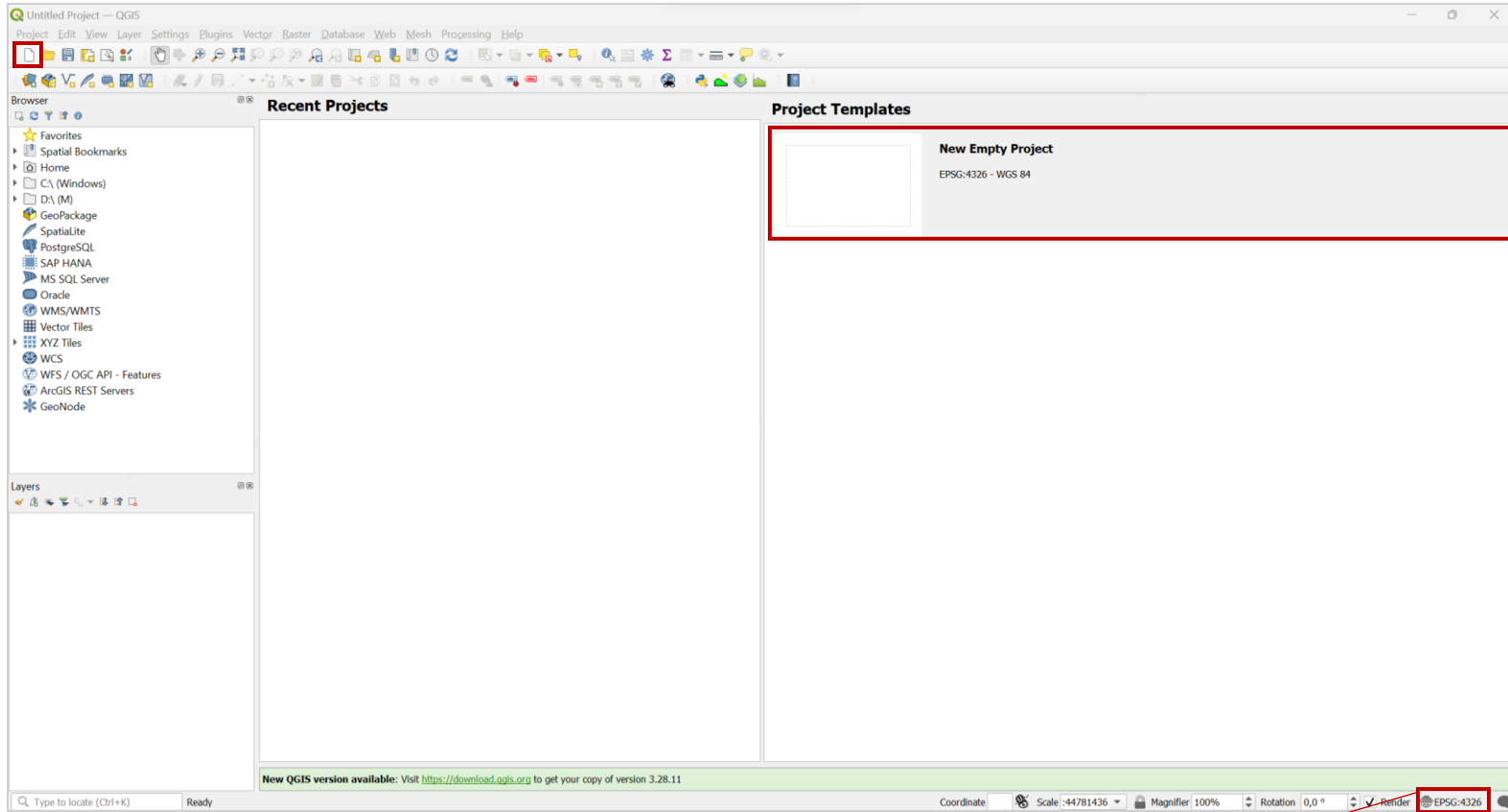
- panely je možné rozšíriť o vybrané nástroje/pluginy



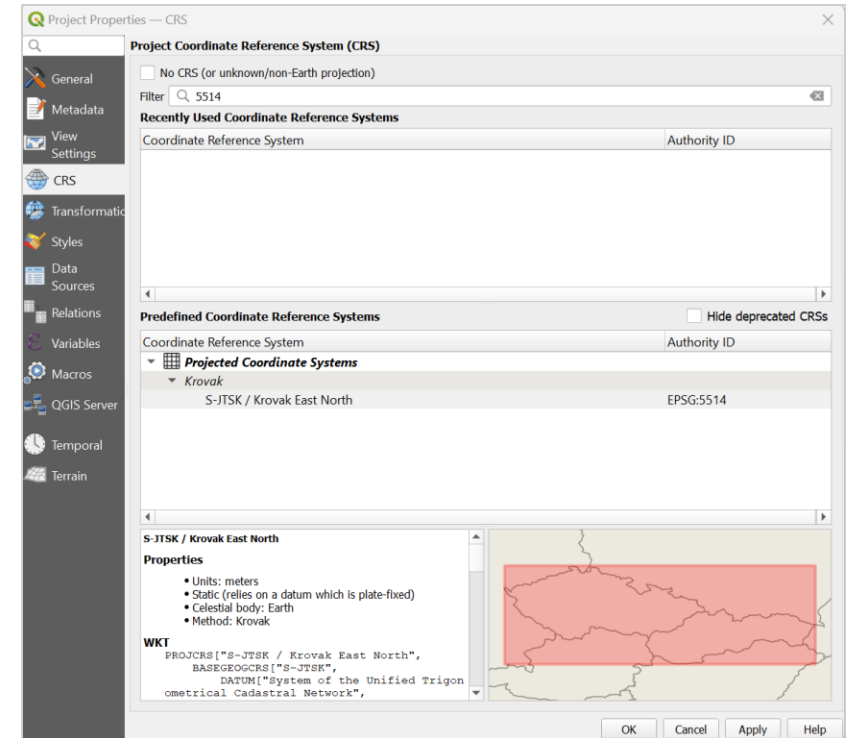
- Advanced Digitizing Panel
 - Browser (2) Panel
 - Browser Panel
 - Debugging/Development Tools Panel
 - GPS Information Panel
 - Layer Order Panel
 - Layer Styling Panel
 - Layers Panel
 - Log Messages Panel
 - Overview Panel
 - Processing Toolbox Panel
 - Results Viewer Panel
 - Spatial Bookmark Manager Panel
 - Statistics Panel
 - Temporal Controller Panel
 - Tile Scale Panel
 - Undo/Redo Panel
 - Vertex Editor Panel
- Toolbars**
- Advanced Digitizing Toolbar
 - Annotations Toolbar
 - Attributes Toolbar
 - Data Source Manager Toolbar
 - Database Toolbar
 - Digitizing Toolbar
 - Help Toolbar
 - Label Toolbar
 - Manage Layers Toolbar
 - Map Navigation Toolbar
 - Mesh Digitizing Toolbar
 - Plugins Toolbar
 - Project Toolbar
 - Raster Toolbar
 - Selection Toolbar
 - Shape Digitizing Toolbar
 - Snapping Toolbar
 - Vector Toolbar
 - Web Toolbar

5. Informácie o nastaveniach projektu

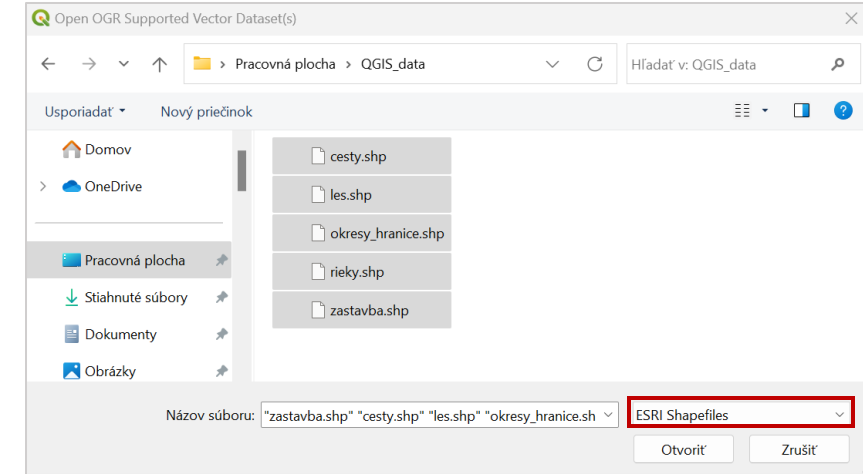
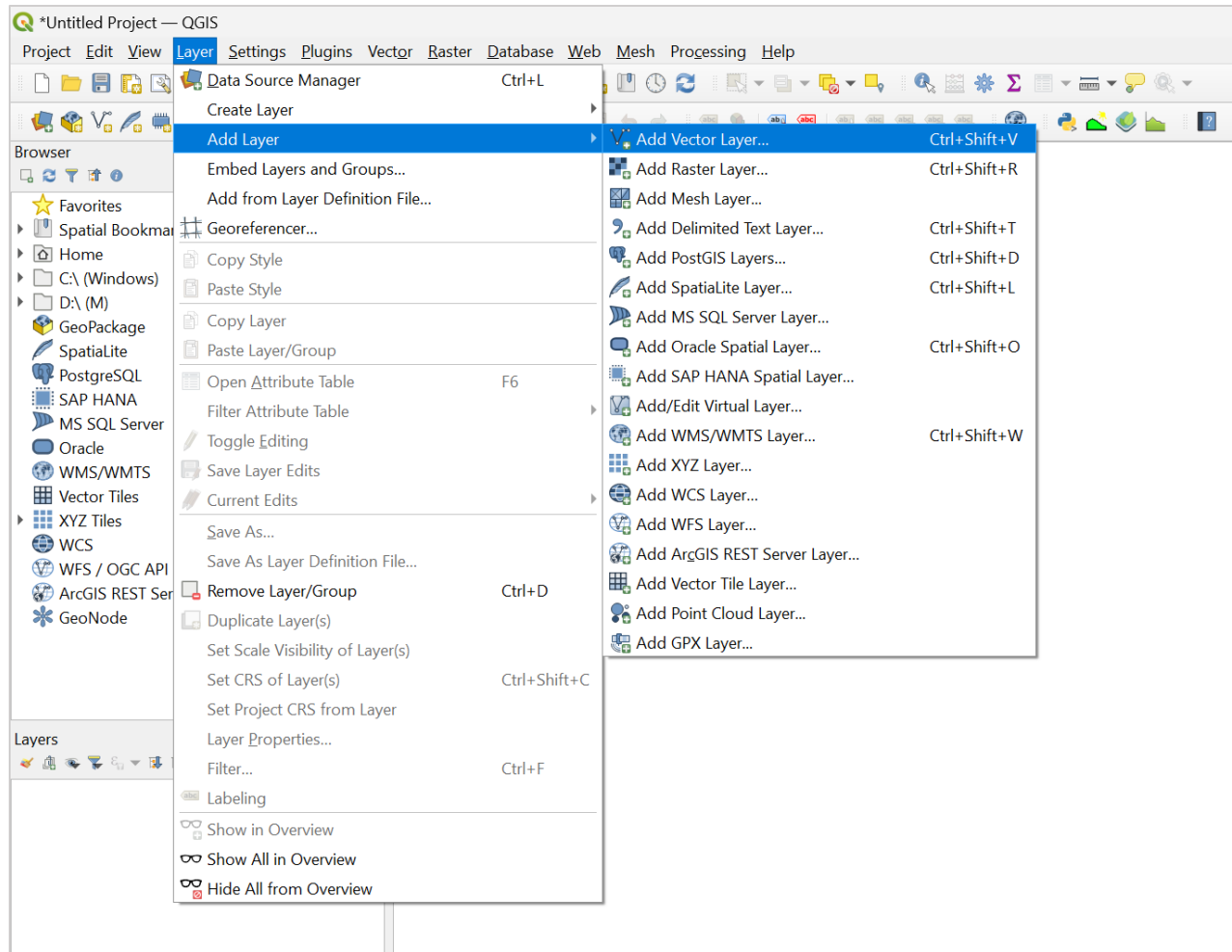
Vytvorenie nového projektu



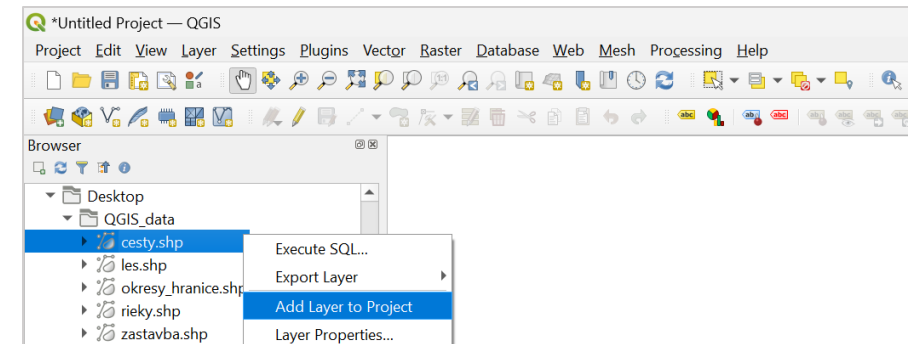
Nastavenie súradnicového systému projektu



Import vektorových údajových vrstiev



...alebo cez panel prehliadača



Inštalácia zásuvného modulu QuickMapServices



► pre import rastrovej podkladovej vrstvy

The screenshot shows the QGIS interface with the 'Plugins' menu open, highlighting 'Manage and Install Plugins...'. The 'Browser' panel on the left shows a list of data sources, including 'WMS/WMTS'. The 'Layers' panel at the bottom shows a list of layers: 'zastavba', 'rieky', 'okresy_hranice', 'les', and 'cesty'. The 'Plugins | All (1132)' dialog is open, displaying a search for 'quickmapservices'. The search results show 'MapTiler' and 'QuickMapServices'. The 'QuickMapServices' plugin details are shown, including a description, tags, and the 'Install Plugin' button, which is highlighted with a red box.

Vyhľadanie basemap cez QuickMapServices



► import tieňovaného reliéfu

The screenshot shows the QGIS interface with the QuickMapServices plugin icon highlighted in the toolbar. A red arrow points from this icon to the 'Search QMS' dialog box. In the dialog, the search term 'hillshade' is entered, and the results list includes 'ArcticDEM' and 'ESRI World Hillshade'. The 'Add' button for 'ESRI World Hillshade' is highlighted with a red box.

QGIS *Untitled Project — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

Browser

- ★ Favorites
- ▶ Spatial Bookmarks
- ▶ Home
- ▶ C:\ (Windows)
- ▶ D:\ (M)
- GeoPackage
- Spatialite
- PostgreSQL

Search QMS

hillshade

Filter by extent All

	ArcticDEM WMS details , report a problem	● Add
	ESRI World Hillshade TMS details , report a problem	● Add

Nastavenie hierarchie a symboliky vrstiev



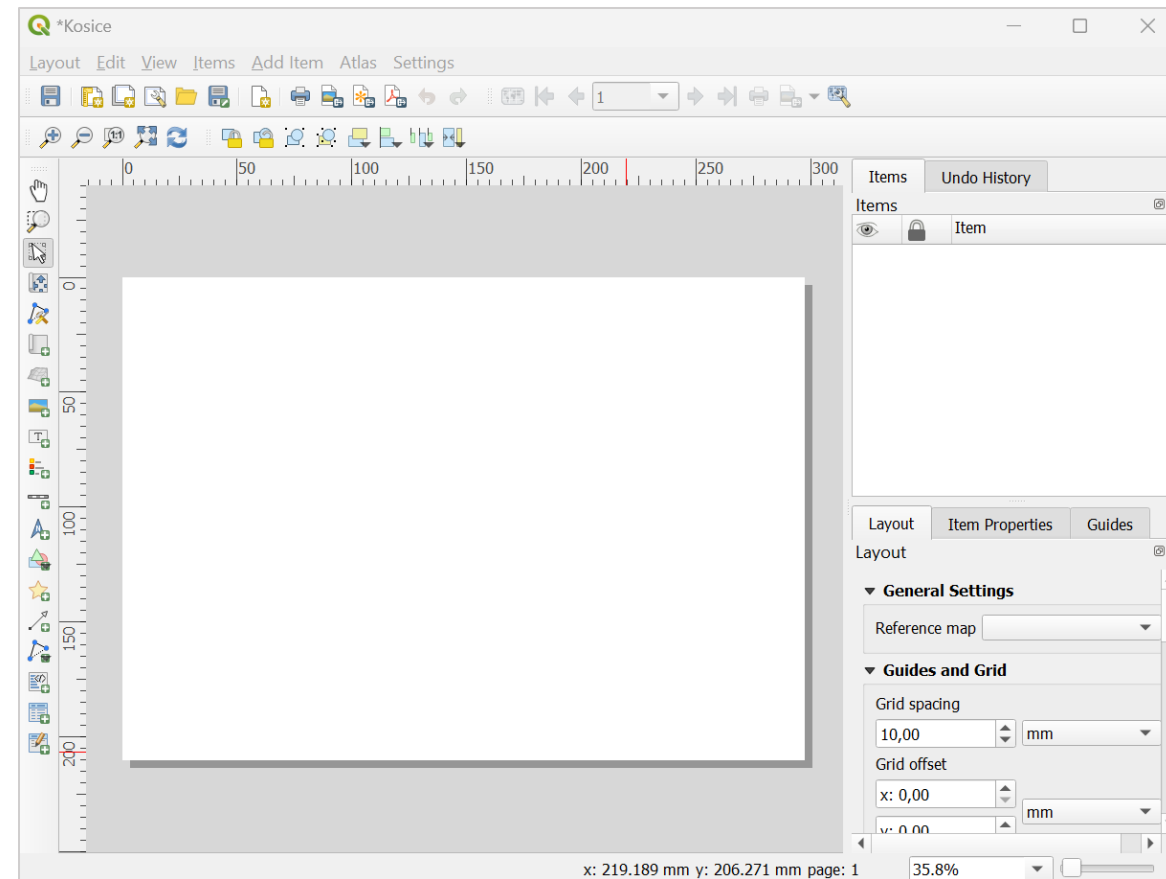
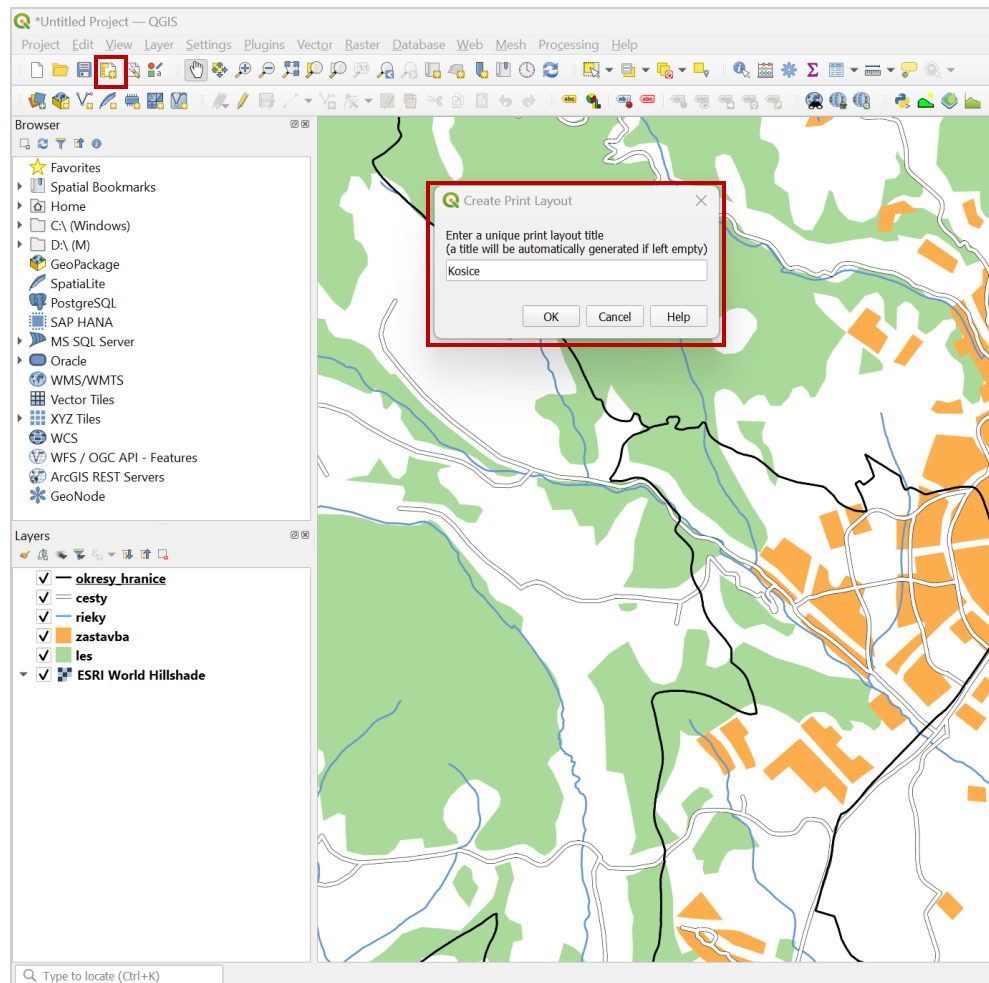
The screenshot shows the QGIS Layers panel with the following layers listed from top to bottom: okresy_hranice (selected), cesty, rieky, zastavba, les, and ESRI World Hillshade. A context menu is open over the 'okresy_hranice' layer, listing various actions such as 'Zoom to Layer(s)', 'Zoom to Selection', 'Show in Overview', 'Show Feature Count', 'Show Labels', 'Copy Layer', 'Rename Layer', 'Duplicate Layer', 'Remove Layer...', 'Move to Bottom', 'Open Attribute Table', 'Toggle Editing', 'Filter...', 'Change Data Source...', 'Set Layer Scale Visibility...', 'Layer CRS', 'Export', 'Styles', 'Add Layer Notes...', and 'Properties...'. A red arrow points from the 'Properties...' option in the menu to the Layer Properties dialog box on the right.

The screenshot shows the 'Layer Properties' dialog box for the 'okresy_hranice' layer, with the 'Symbology' tab selected. The dialog displays the following settings for the 'Simple Line' symbol layer type:

- Color: Black
- Stroke width: 0,260000 Millimeters
- Offset: 0,000000 Millimeters
- Stroke style: Solid Line
- Join style: Bevel
- Cap style: Square
- Use custom dash pattern:
- Pattern offset: 0,000000 Millimeters
- Align dash pattern to line length:
- Tweak dash pattern at sharp corners:
- Trim Lines: Start 0,000000 Millimeters, End 0,000000 Millimeters
- Enable symbol layer:
- Draw effects:

The 'Layer Rendering' section at the bottom shows 'Style' as the selected rendering style. The dialog includes 'OK', 'Cancel', 'Apply', and 'Help' buttons.

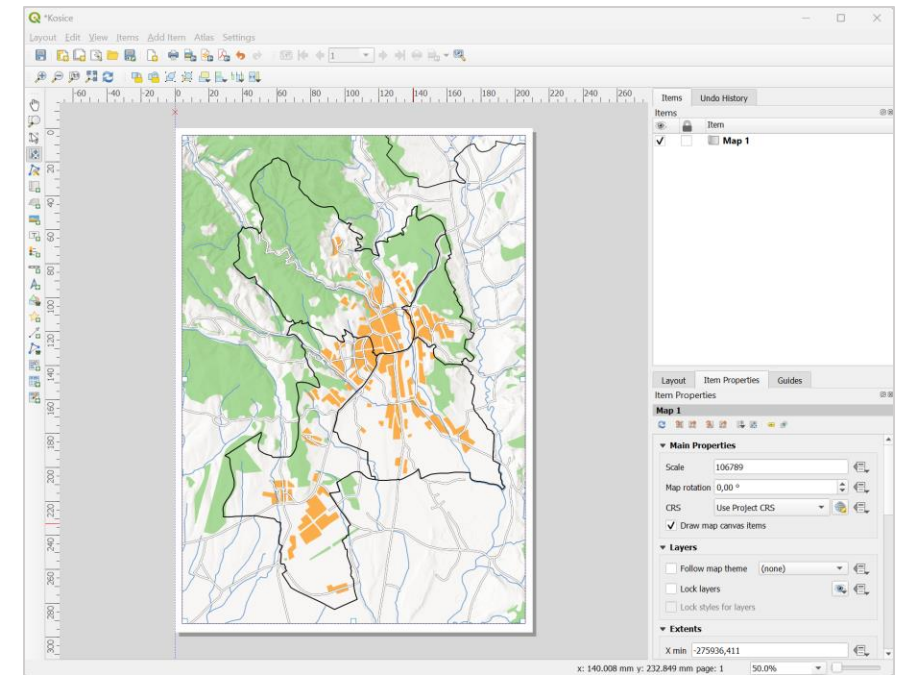
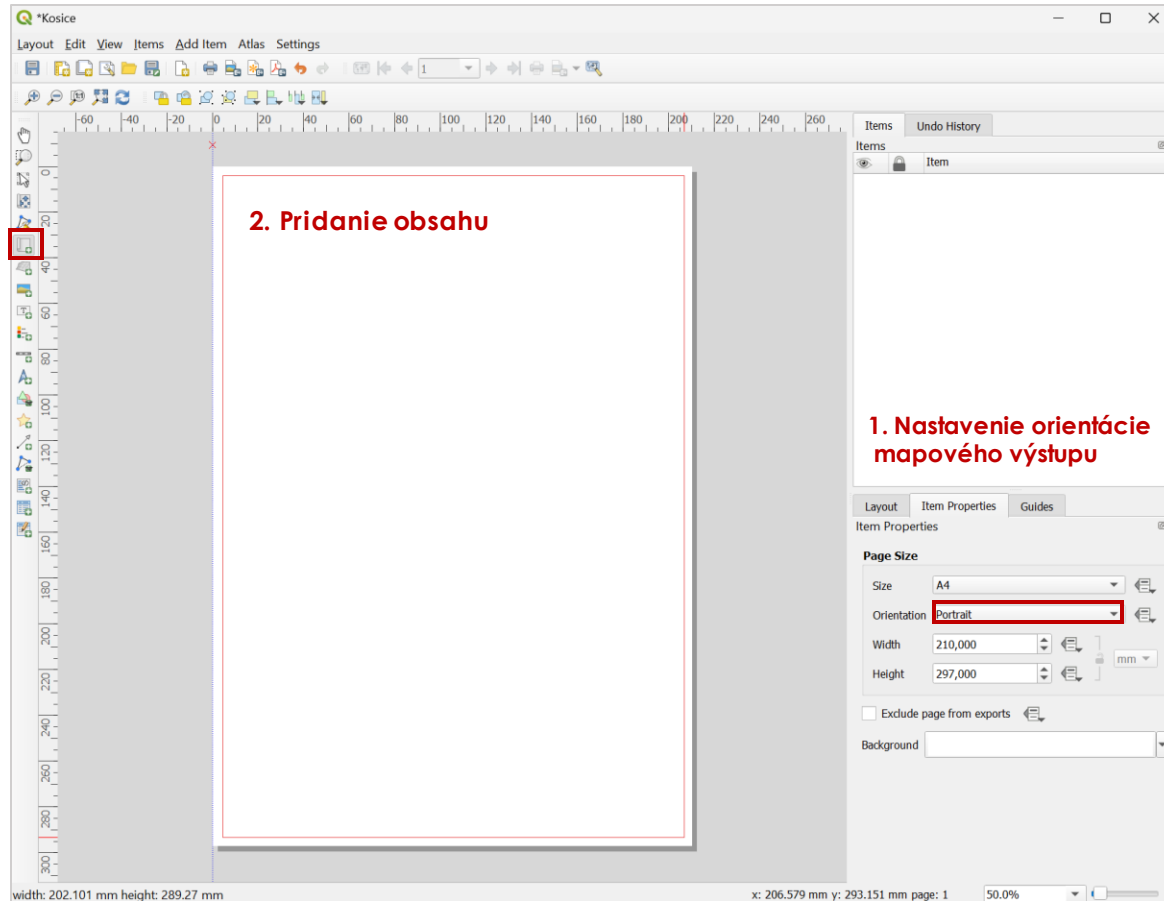
Tvorba mapového výstupu



Tvorba mapového výstupu



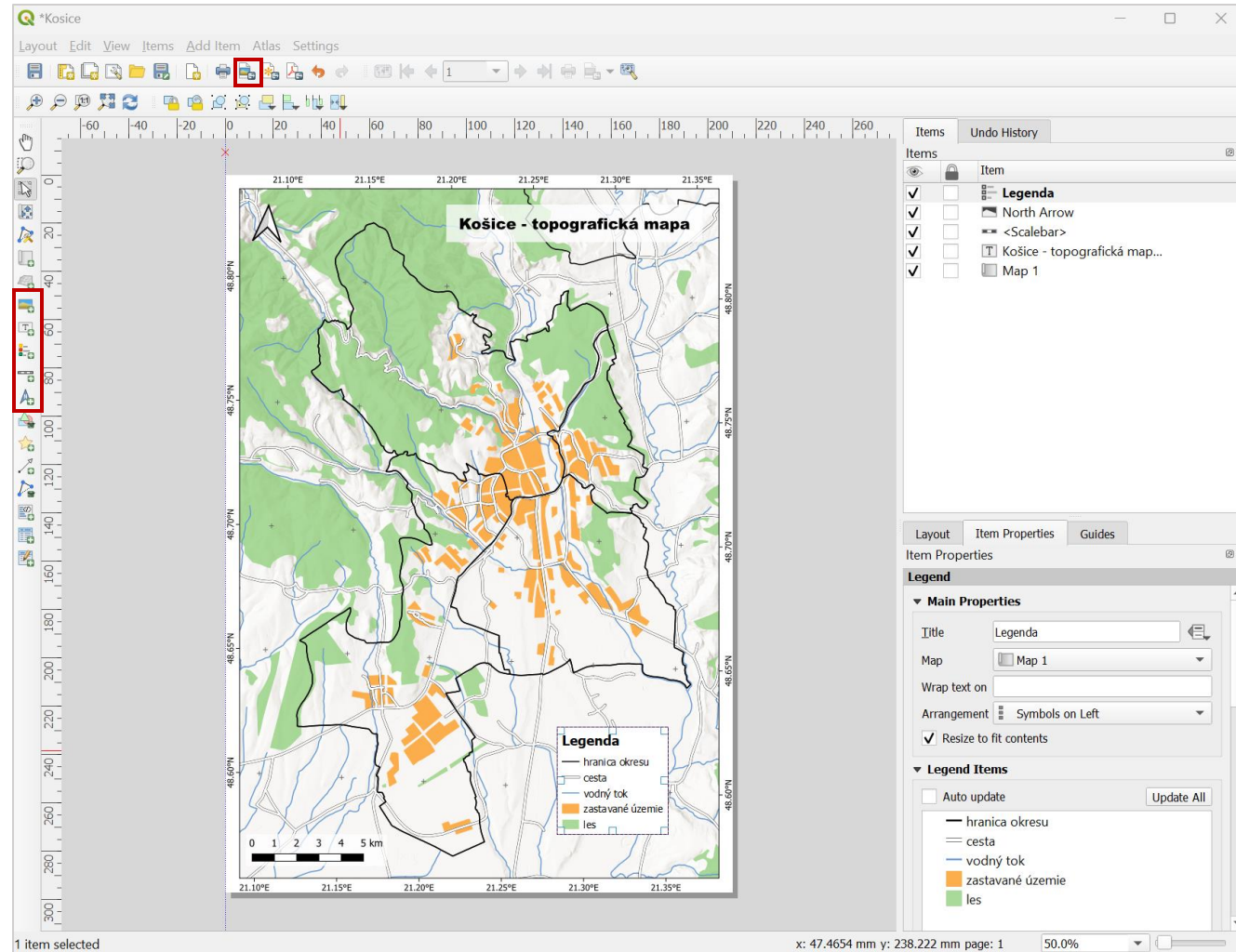
► Nastavenie vlastností a pridanie obsahu mapy



Tvorba mapového výstupu



- ▶ nastavenie mierky a rozsahu zobrazovania údajových vrstiev
- ▶ pridanie a nastavenie kompozičných prvkov mapy: názov, legenda, mierka
- ▶ pridanie a nastavenie súradnicovej siete
- ▶ export mapového výstupu





Ďakujem za pozornosť



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