

4. INSPIRE ESPUS školenie „QGIS“

Inštalácia, popis prostredia

**4. INSPIRE ESPUS
školenie
"QGIS"**

Online formát
Termín: 17.08.2022
Miesto: Online / MS Teams

Operačný program
Efektívna
verejná správa

 **Európska únia**
Európsky sociálny fond

Tento projekt je podporený z Európskeho sociálneho fondu





MINISTERSTVO

ŽIVOTNÉHO PROSTREDIA
SLOVENSKEJ REPUBLIKY



ESPUS

Efektívna správa priestorových údajov a služieb

4. INSPIRE ESPUS školenie „QGIS“ Inštalácia, popis prostredia

17.08.2022



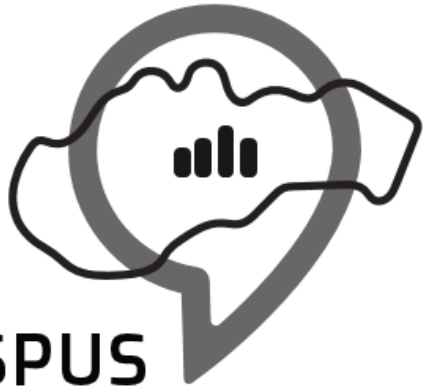
Európska únia
Európsky sociálny fond

Prehľad

Inštalácia

Popis prostredia





ESPUS

Efektívna správa priestorových údajov a služieb

Inštalácia

Inštalácia

- QGIS je multiplatformový softvér
 - MS Windows
 - Linux (Ubuntu)
 - MacOS
 - Android (staré neudržiavané verzie)
 - QField



Inštalácia MS Windows

- Inštalácie (už len 64 bit)
 - <https://www.qgis.org/en/site/forusers/download.html>
- Dva spôsoby inštalácie
 - Samostatný inštalátor (začínajúci používatelia)
 - Najnovšia verzia (najbohatšia na funkcie)
 - Dlhodobá verzia (najstabilnejšia)
 - OSGeo4W inštalátor (pokročilí používatelia)
 - Inštalácia aj ďalšieho softwaru hlavičkou OSGeo

Inštalácia MS Windows

Download for Windows

QGIS in OSGeo4W (recommended for regular users):

 [OSGeo4W Network Installer](#) 



In the installer choose **Express Install** and select **QGIS** to install the *latest release* or **QGIS LTR** to install the *long term release*. The express installations have several optional packages including non-free software. To avoid those you have to use the **Advanced Install** and choose **qgis** and/or **qgis-ltr** in the desktop section.


CAUTION: Upgrades of old setups from OSGeo4W v1 using this repository are not supported. You need to do a fresh install or use a different directory.

CAUTION: 32 bit binaries are not produced anymore. Also Windows 7 no longer works as we are now using Python 3.9, which dropped support for it.



Standalone installers (MSI) from OSGeo4W packages (recommended for new users)


Latest release (richest on features):

 [QGIS Standalone Installer Version 3.26](#) 

[sha256](#) 

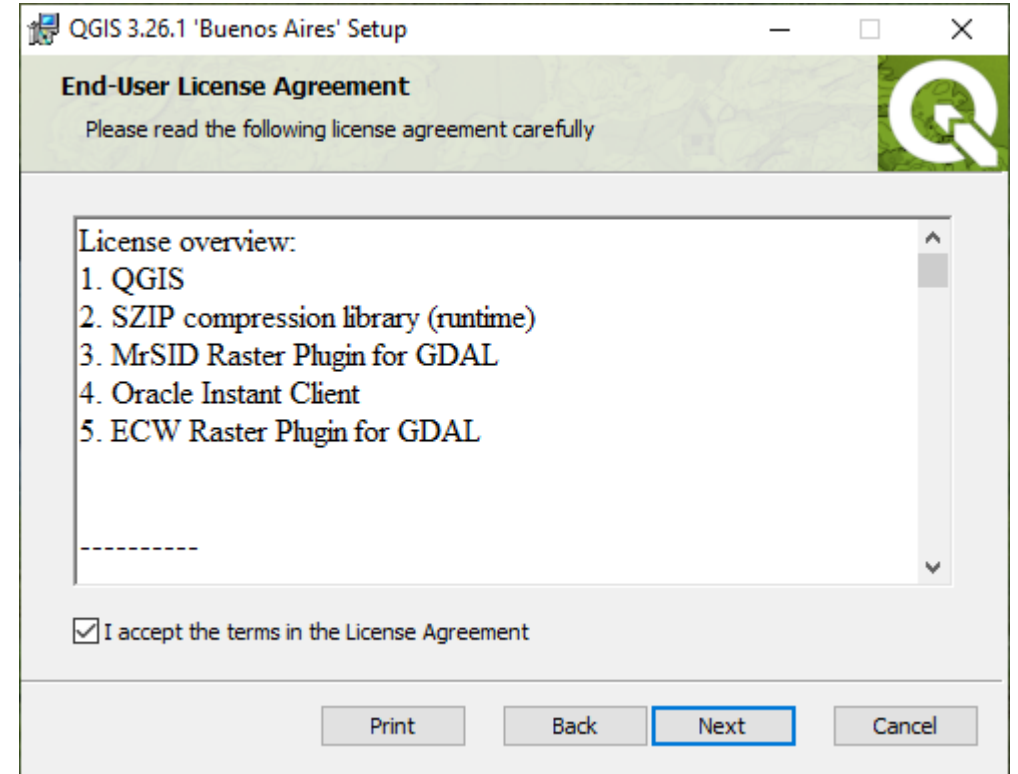
Long term release (most stable):

 [QGIS Standalone Installer Version 3.22](#) 

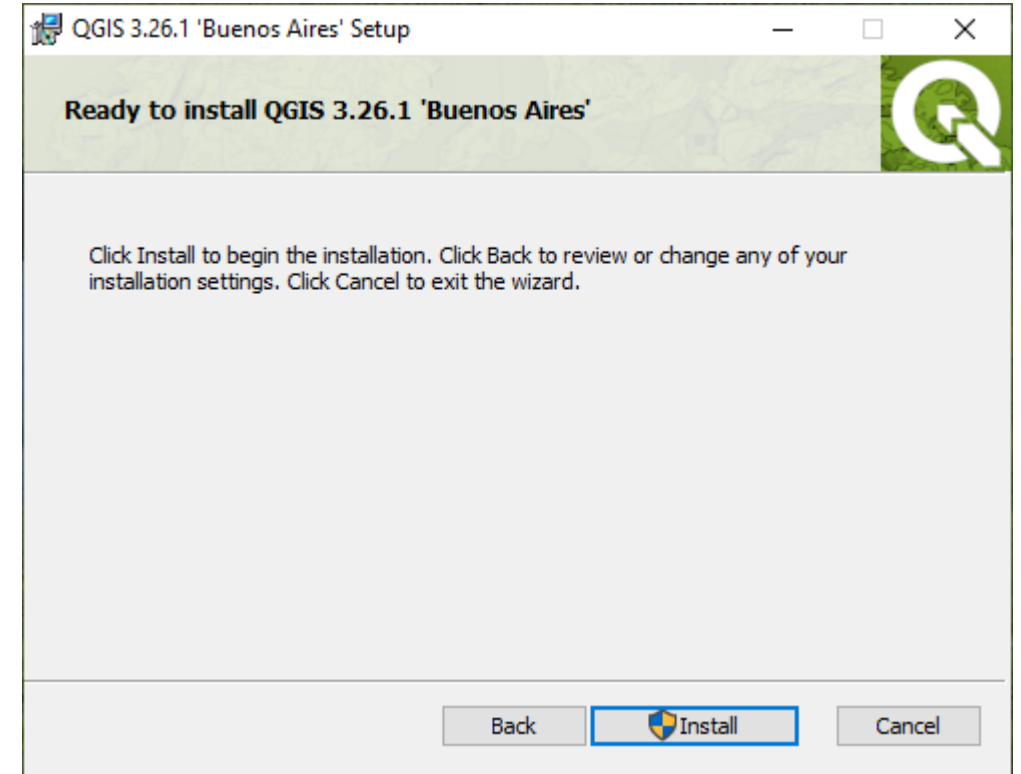
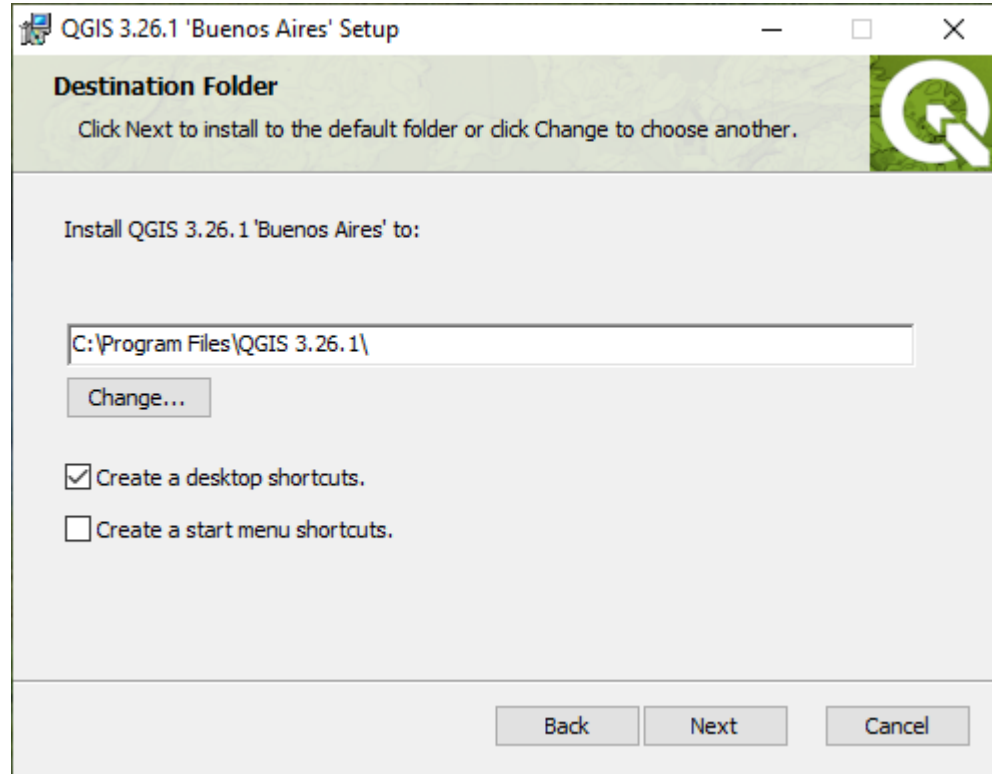
[sha256](#) 

Note that the MSI installers are much bigger than the previous installers. This is because they include significant larger packages (eg. PROJ 8). The main reason for the switch to MSI were the size limits previously used NSIS has, which was blocking updates of dependencies.

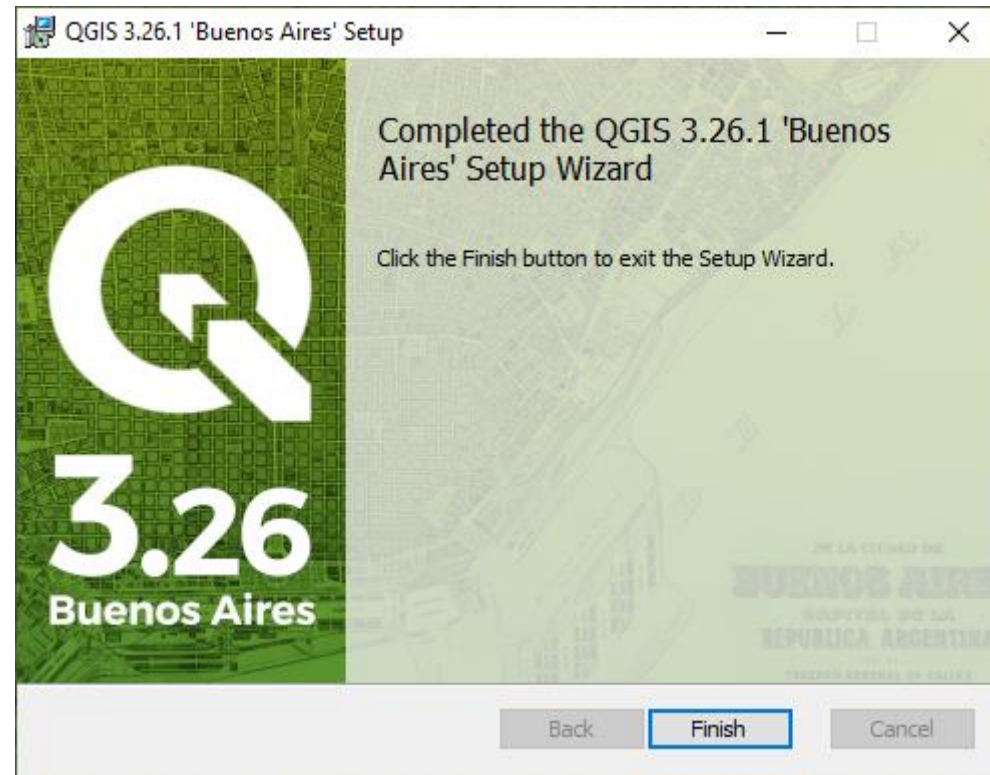
Samostatný inštalátor



Samostatný inštalátor

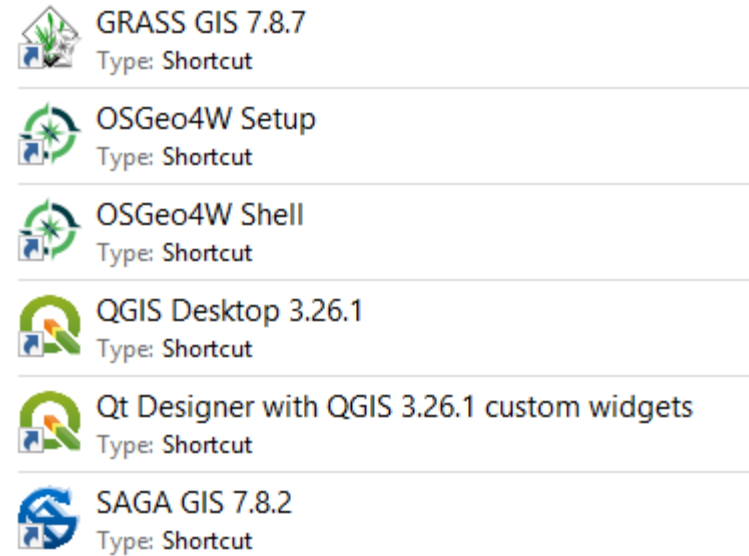


Samostatný inštalátor



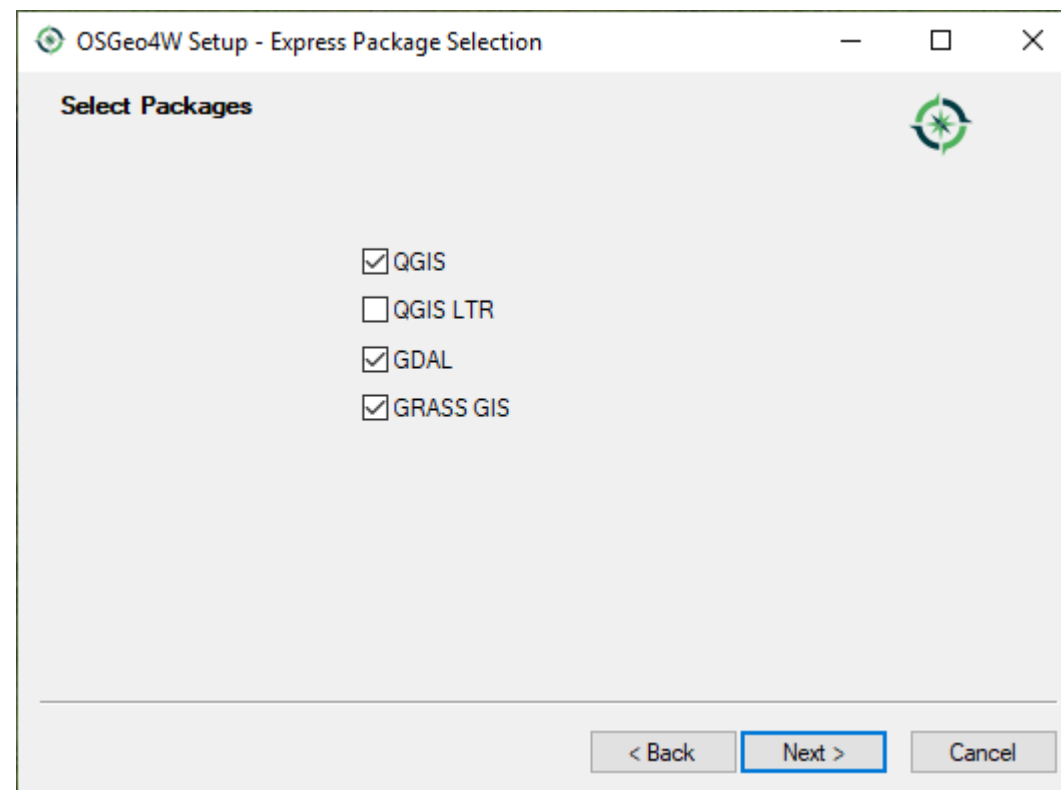
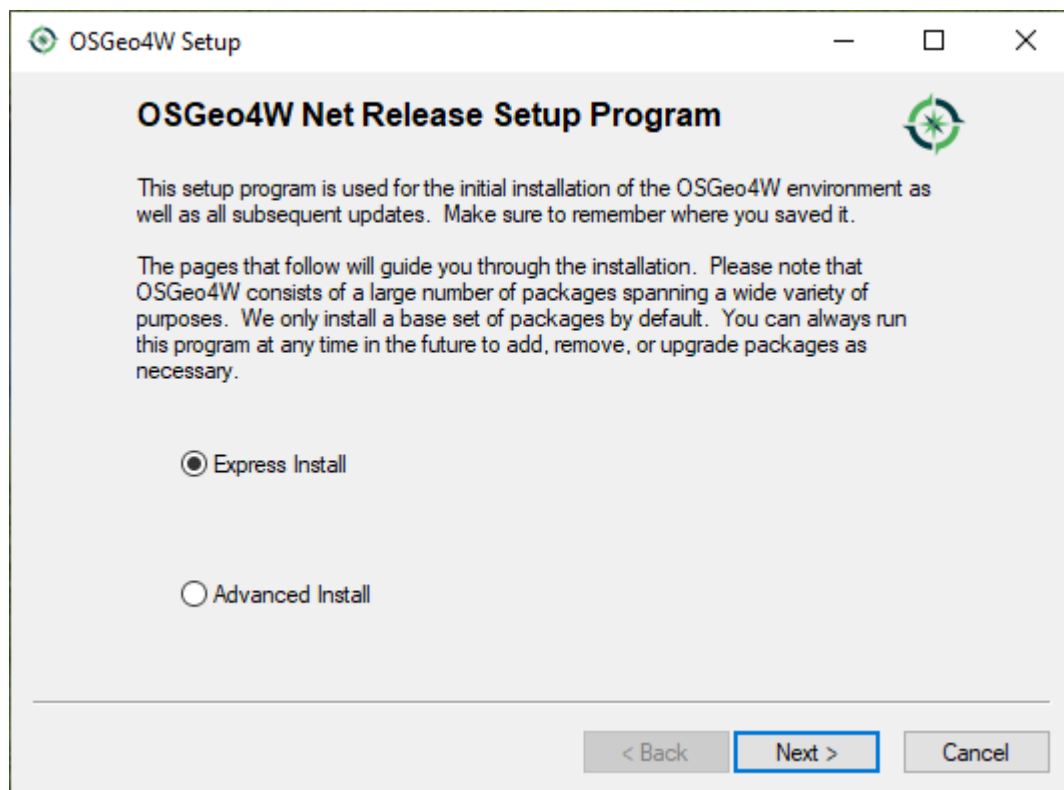
Samostatný inštalátor

- Nainštalované súčasti
 - GRASS GIS
 - OSGeo4W Setup
 - OSGeo4W Shell
 - QGIS Desktop
 - Qt Designer
 - SAGA GIS



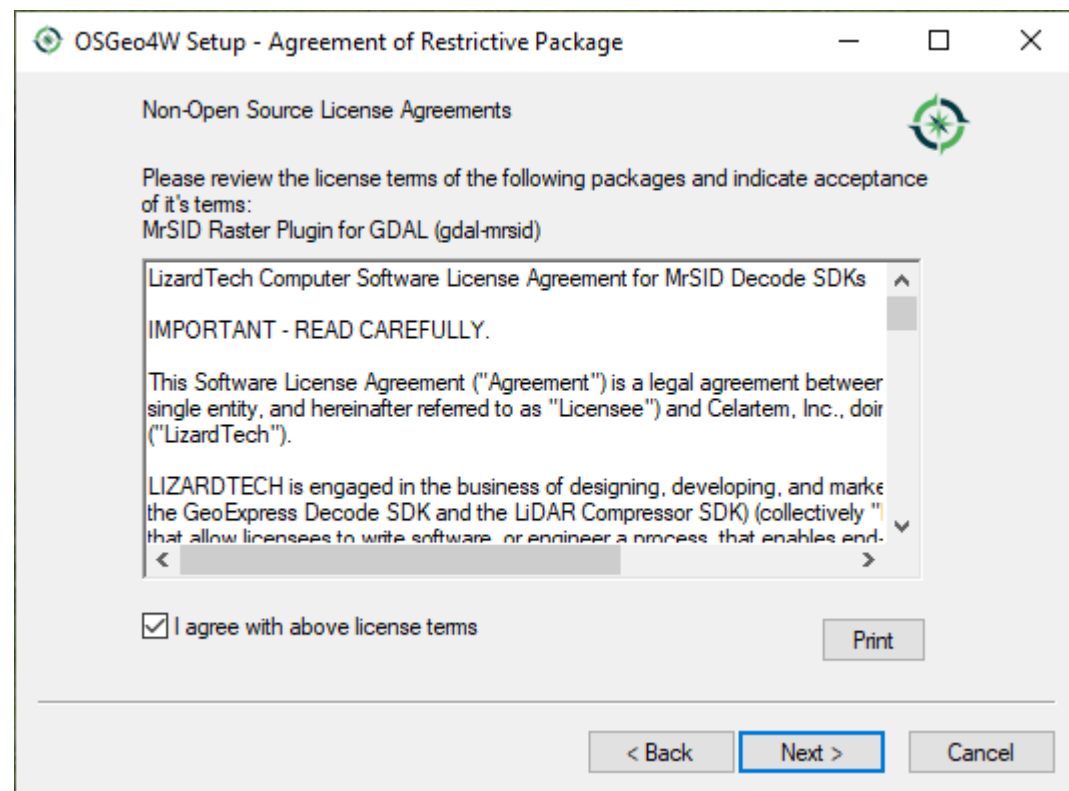
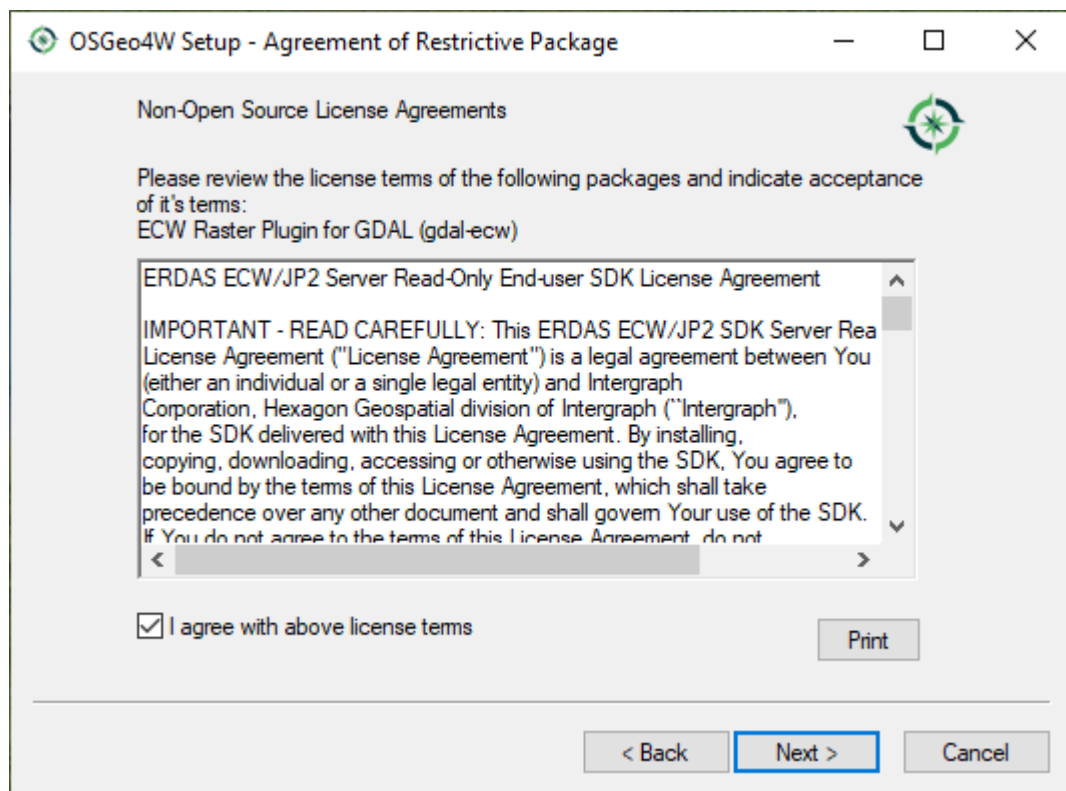
OSGeo4W inštalátor

- Expresná inštalácia



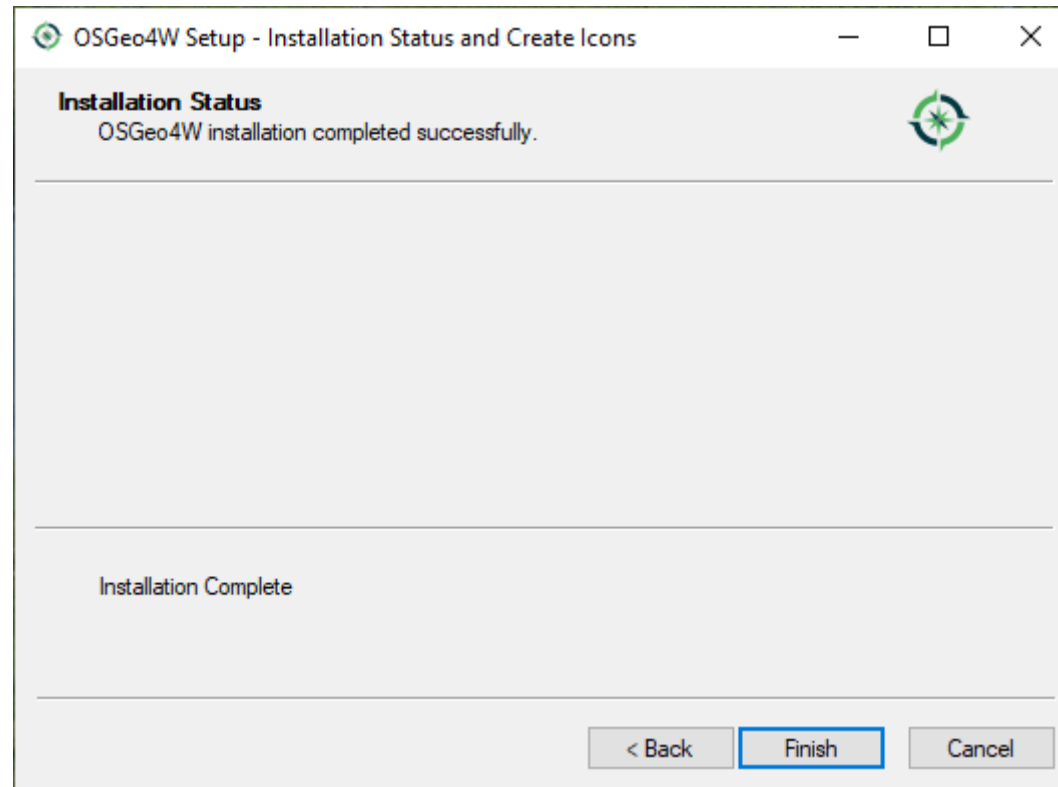
OSGeo4W inštalátor

- Expresná inštalácia



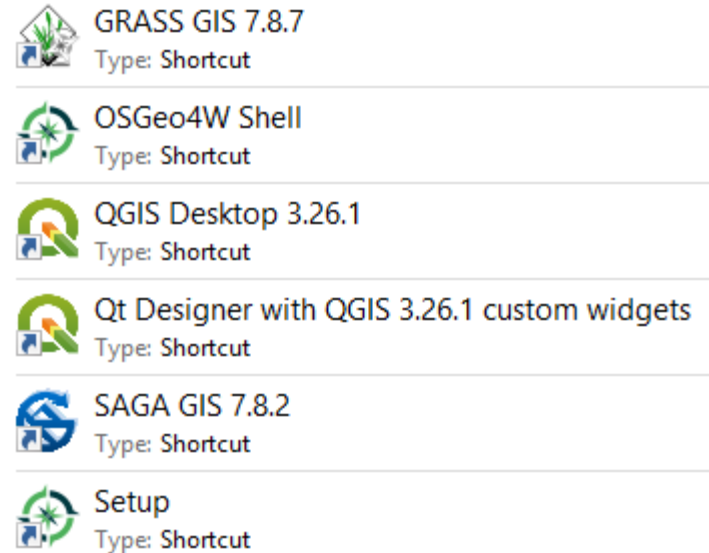
OSGeo4W inštalátor

- Expresná inštalácia



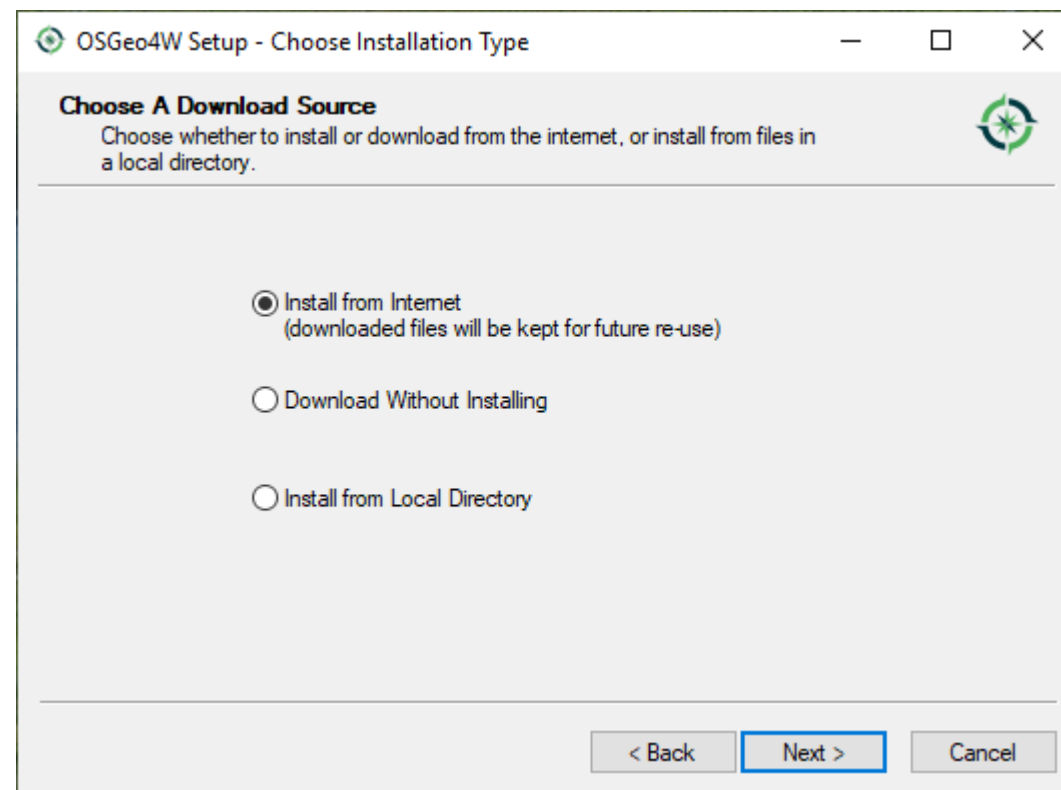
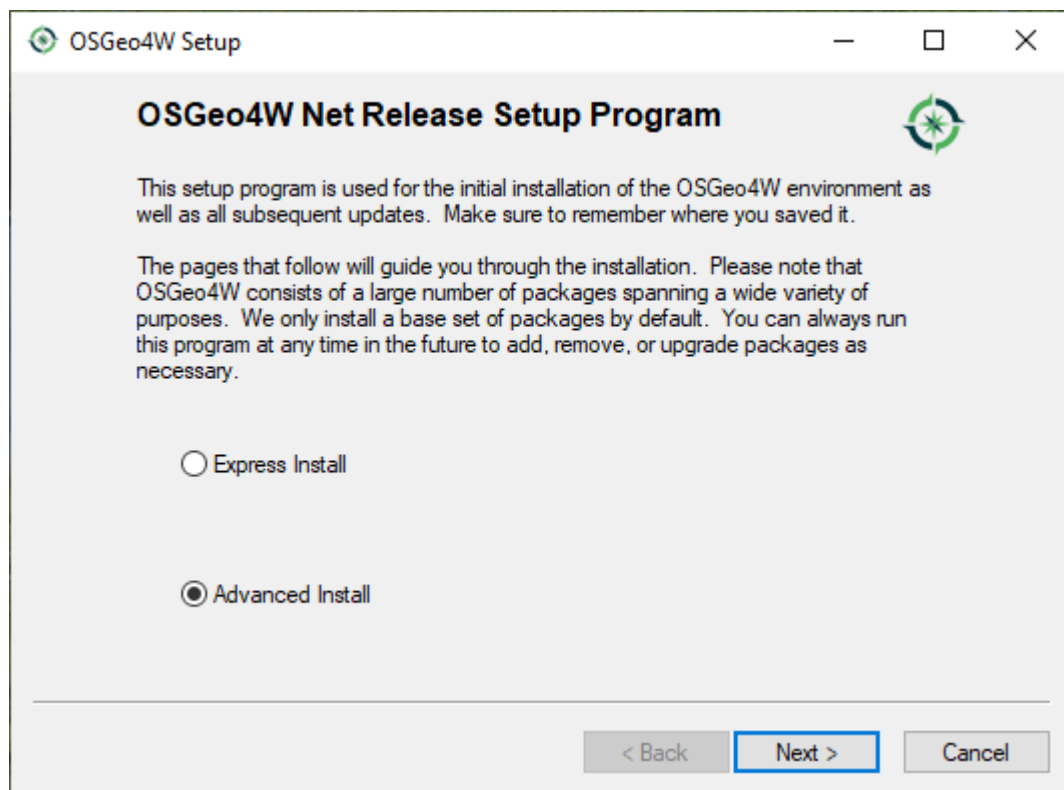
OSGeo4W inštalátor

- Expresná inštalácia
 - GRASS GIS
 - OSGeo4W Shell
 - QGIS Desktop
 - Qt Designer
 - SAGA GIS
 - Setup



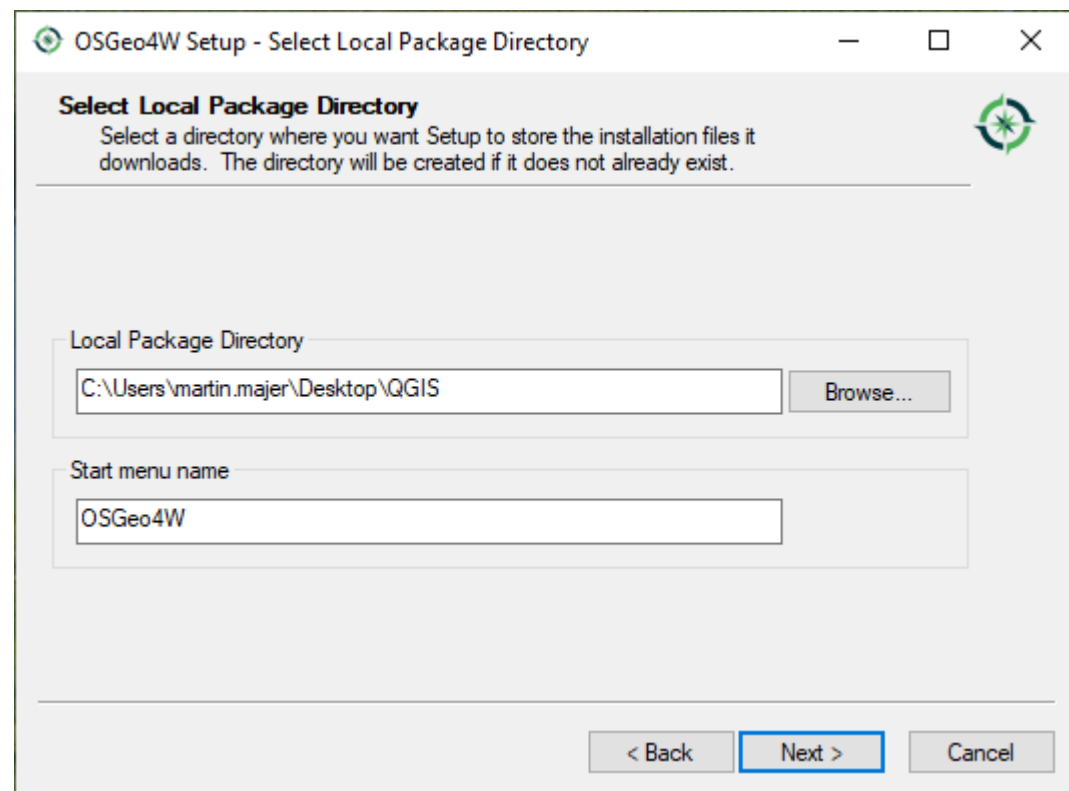
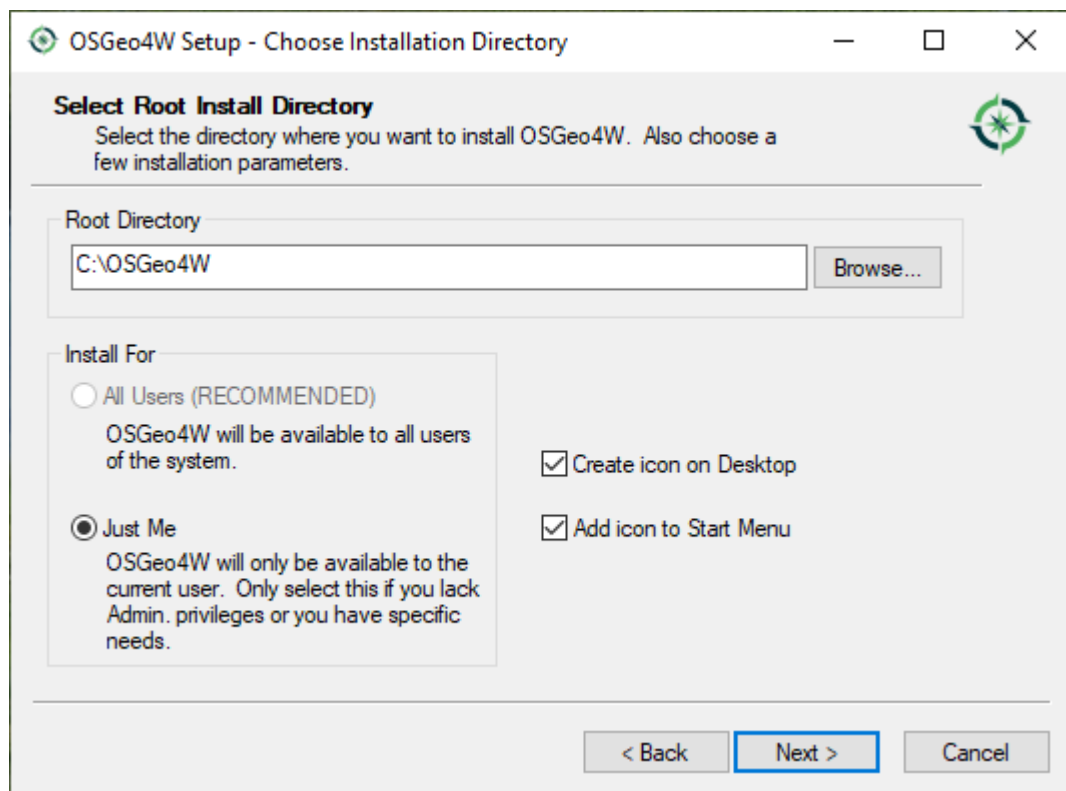
OSGeo4W inštalátor

- Rozšířená inštalácia



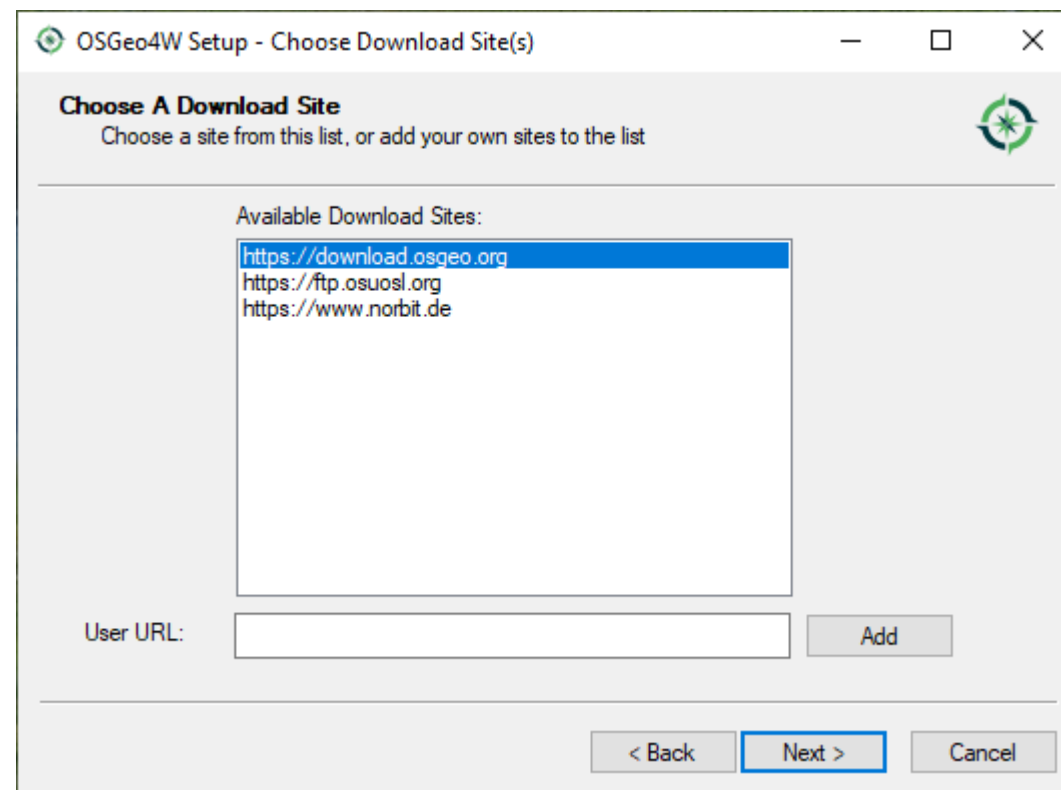
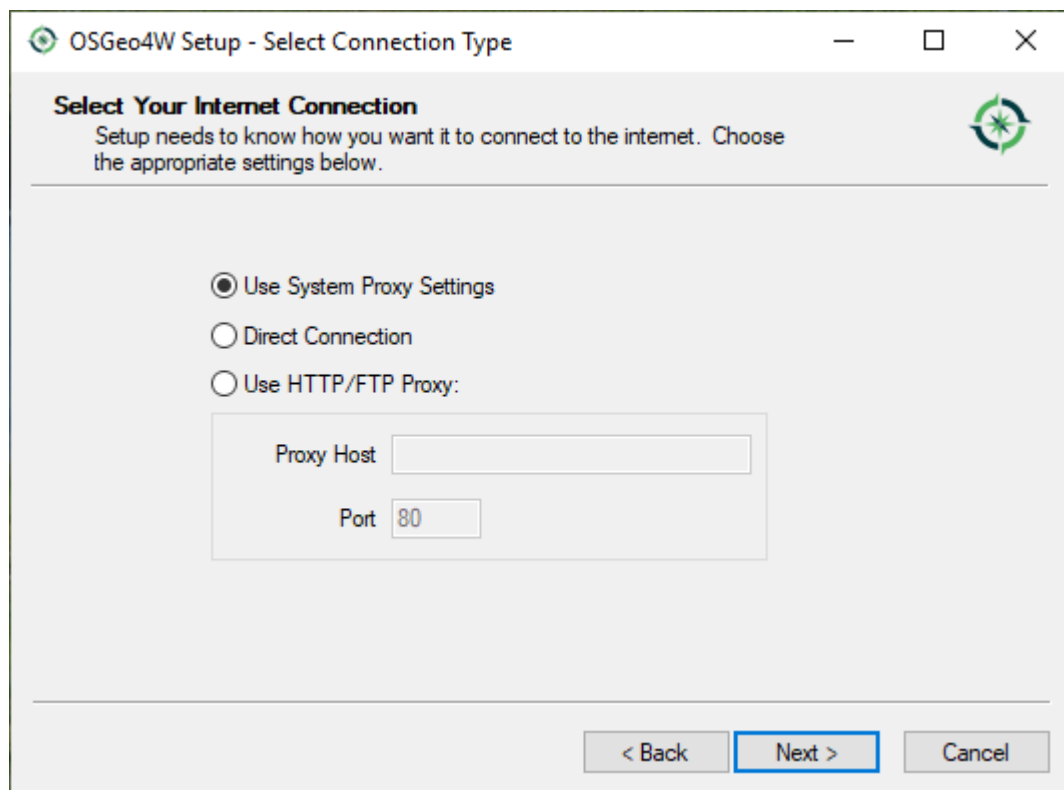
OSGeo4W inštalátor

- Rozšířená inštalácia



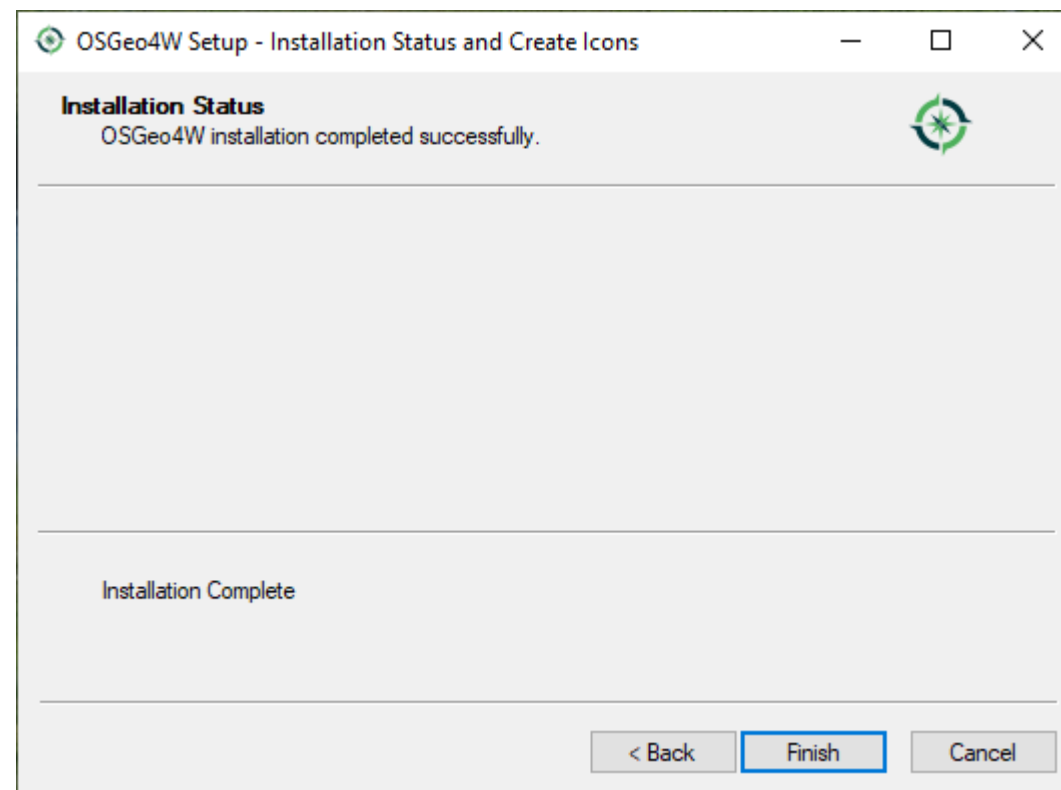
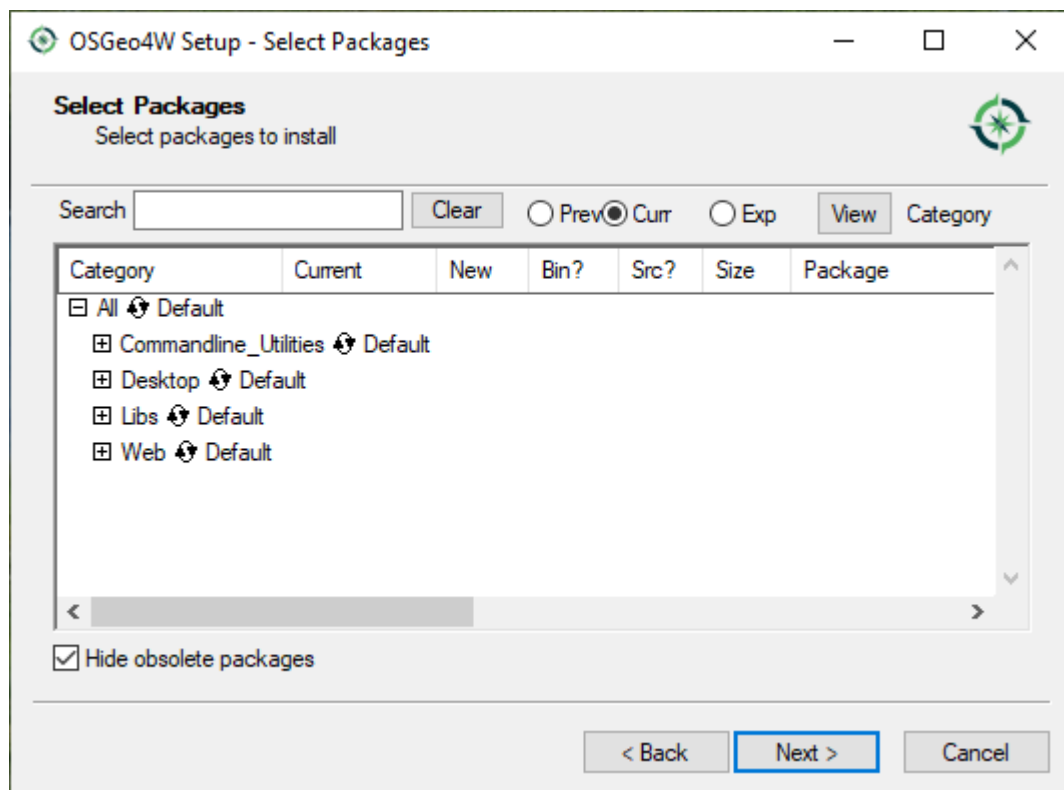
OSGeo4W inštalátor

- Rozšírená inštalácia



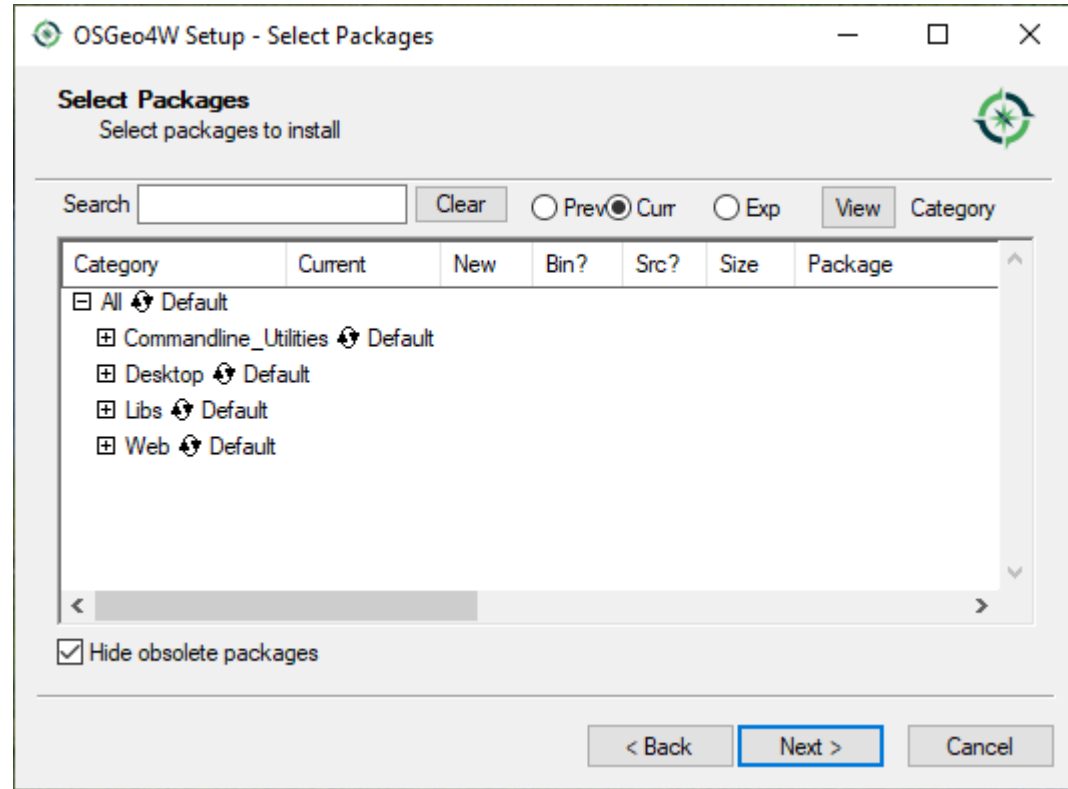
OSGeo4W inštalátor

- Rozšírená inštalácia

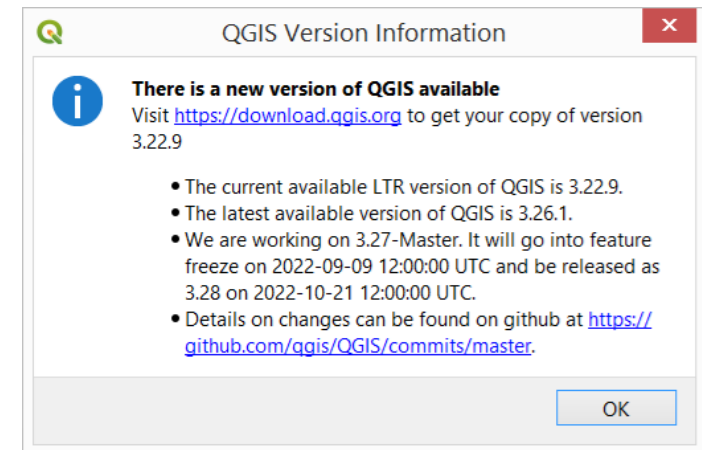
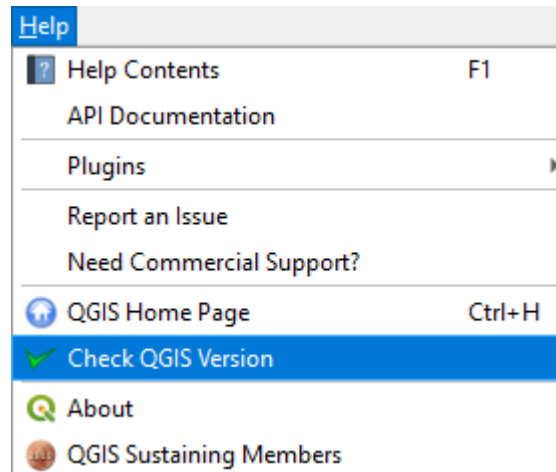


Upgrade QGIS

- OSGeo4W inštalátor

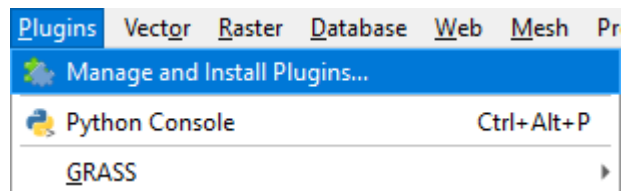


- Check QGIS Version



QGIS pluginy

- Rozširujú funkčnosť QGIS
- Viac ako 1500
- Python, C++
- Udržiavané QGIS Development Team
- Správa v Manage and Install Plugins



Správa pluginov

The screenshot shows the QGIS Plugins Manager interface. On the left, a sidebar lists categories: All, Installed, Not installed, Install from ZIP, and Settings. The main area displays a list of plugins, with 'AcATaMa' selected and highlighted in blue. To the right, a detailed view for the 'AcATaMa' plugin is shown, including its logo, description, features, ratings, tags, and author information.

Plugins | All (907)

Search...

- AcATaMa
- Actions for relations
- Active Fire
- Add a point road sign
- Aderyn Data Search
- Advanced Line Editor
- AequilibraE
- AGIS
- agknow for QGIS
- AGT - Archaeological Geophysics Toolbox
- Alloy Search Here
- ALS Downloader
- AmigoCloud
- AMIL-Assistente de Mapa Interativo Leaflet
- ANA Data Acquisition
- Anaximandre
- Andalusian Population
- Animate OSM
- Animove
- Annotation to Label
- AnnotationManager
- AnotherDXFImporter
- Append Features to Layer
- ArcGIS ImageServer Connector
- ArcheoCAD
- Archiwalna Ortofotomapa
- Area Along Vector
- Area Ratio

AcATaMa

AcATaMa is a Qgis plugin for Accuracy Assessment of Thematic Maps

The AcATaMa is a Qgis plugin for Accuracy Assessment of Thematic Maps. It was designed mainly for:

- To assess the accuracy of thematic maps
- To estimate areas of the map classes
- Design and sampling generation
- Sampling classification and others.

★★★★★ 67 rating vote(s), 88573 downloads

Tags [sample](#), [points](#), [accuracy assessment](#), [classification](#), [remote sensing](#), [accuracy](#), [sampling design](#), [thematic](#)

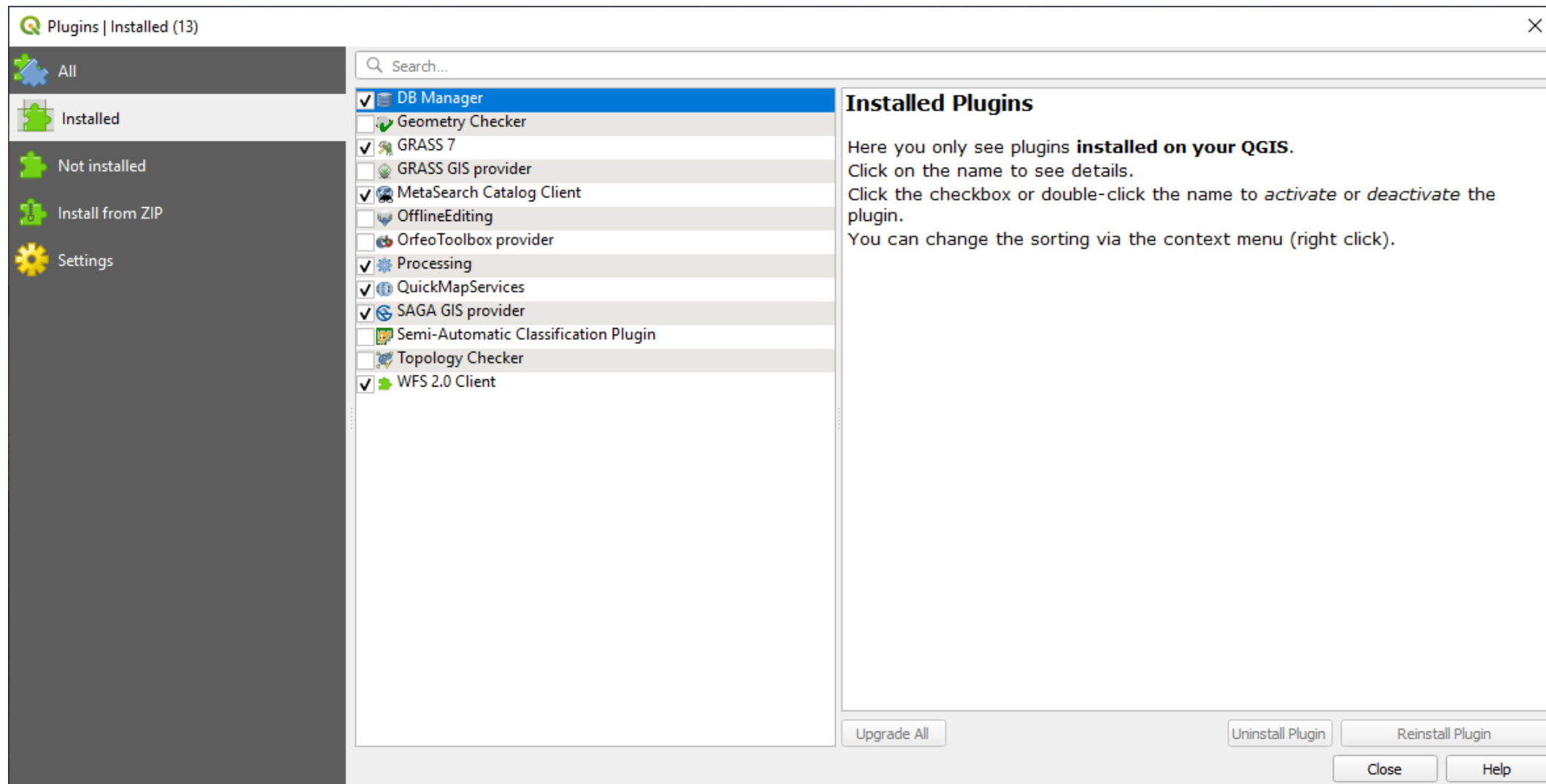
More info [homepage](#) [bug tracker](#) [code repository](#)

Author Xavier Corredor Llano, SMBByC

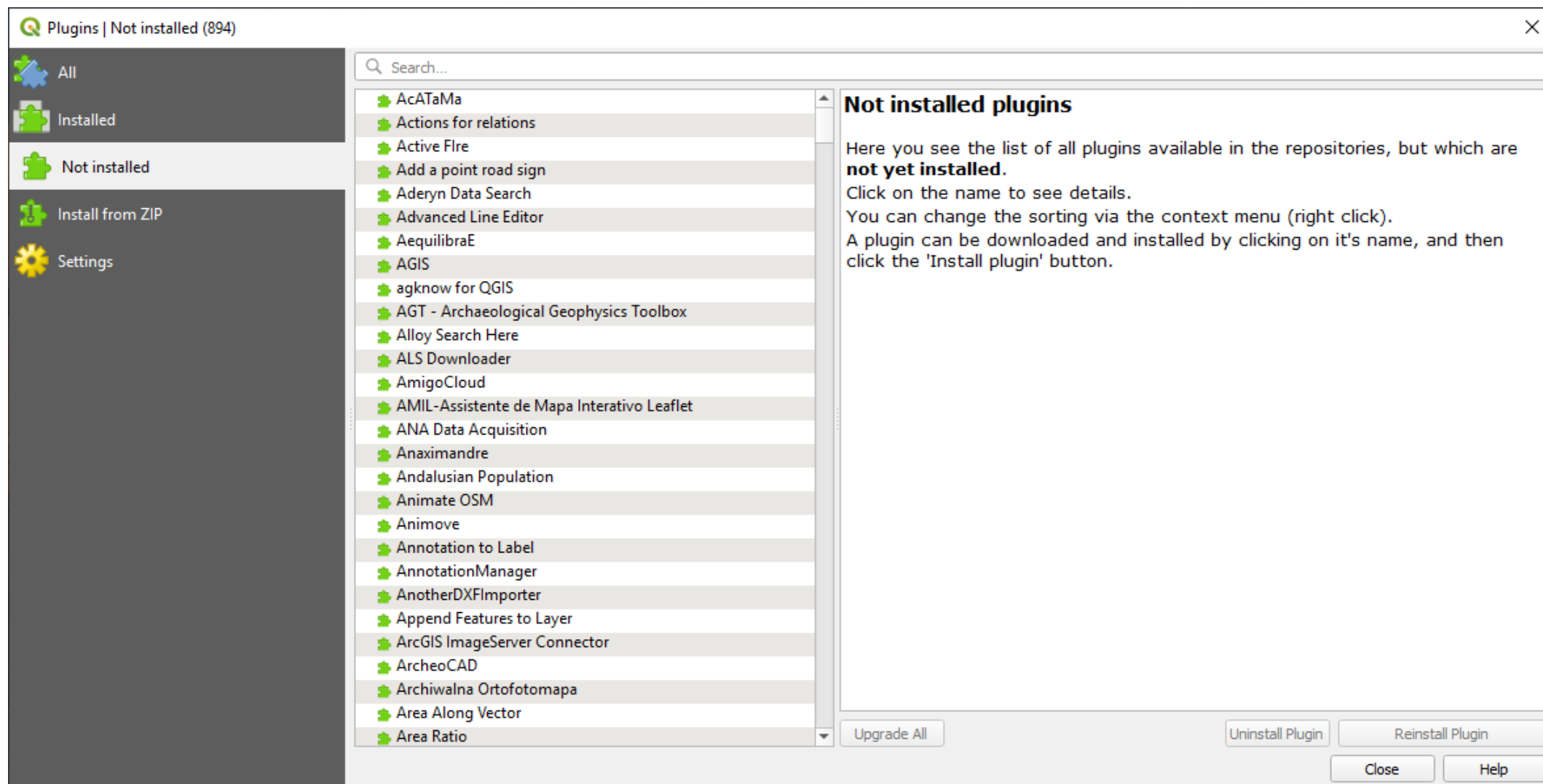
Available version (stable) [19.11.21b](#) updated at št jan 27 20:38:40 2022

Upgrade All Install Plugin Close Help

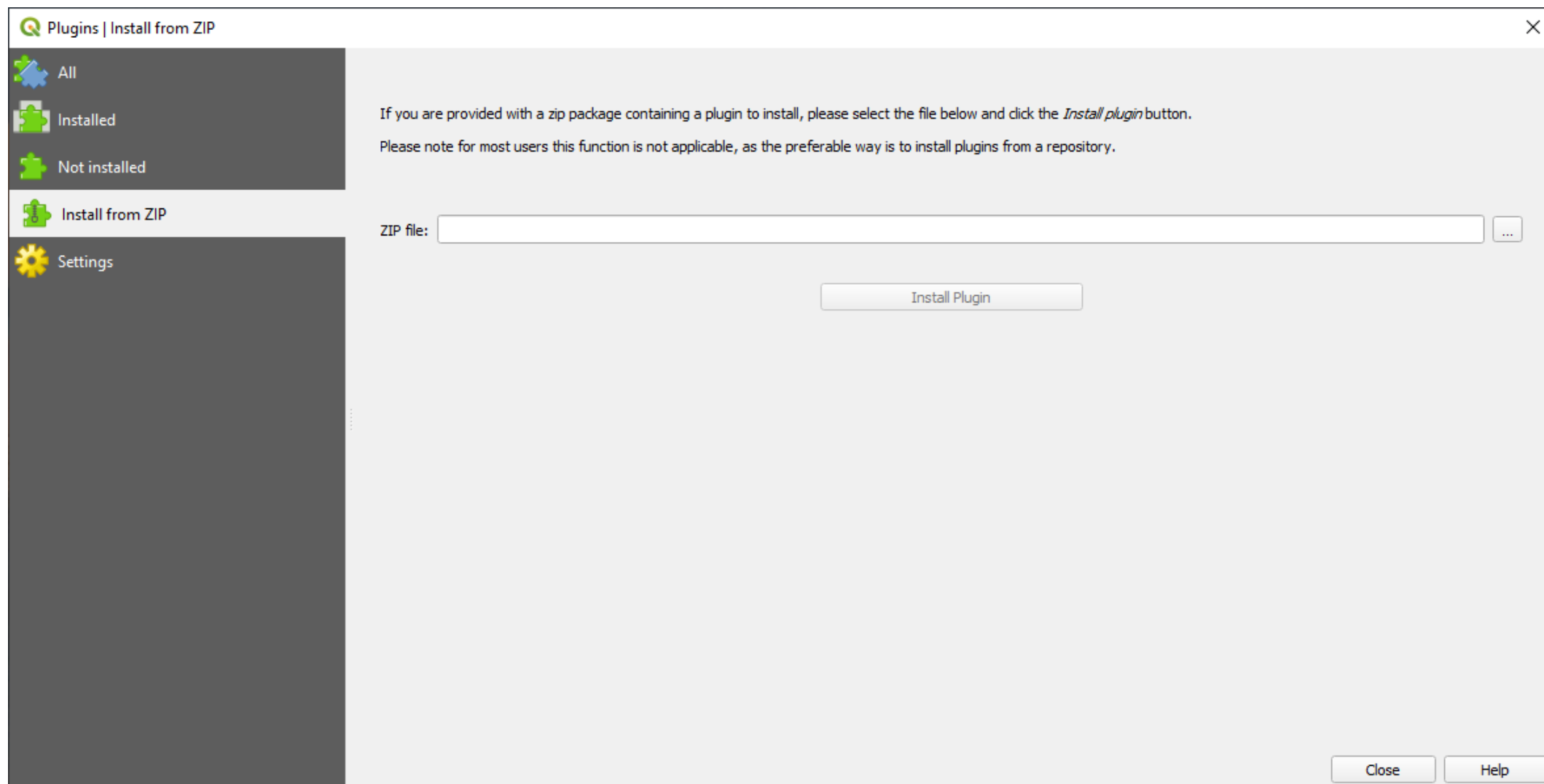
Správa pluginov



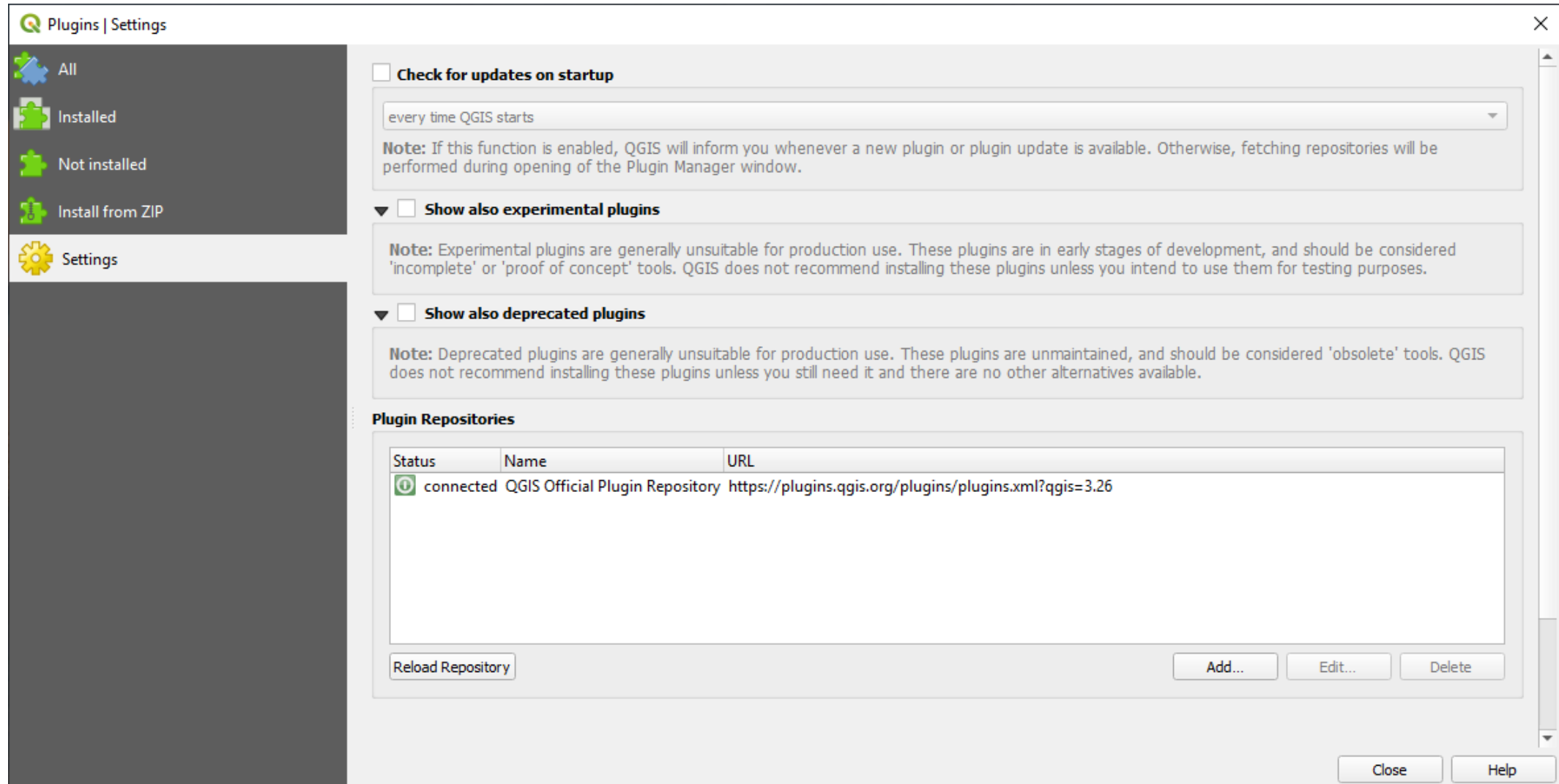
Správa pluginov



Správa pluginov



Správa pluginov



Plugins | Settings

All
Installed
Not installed
Install from ZIP
Settings

Check for updates on startup

every time QGIS starts

Note: If this function is enabled, QGIS will inform you whenever a new plugin or plugin update is available. Otherwise, fetching repositories will be performed during opening of the Plugin Manager window.


Show also experimental plugins

Note: Experimental plugins are generally unsuitable for production use. These plugins are in early stages of development, and should be considered 'incomplete' or 'proof of concept' tools. QGIS does not recommend installing these plugins unless you intend to use them for testing purposes.

Show also deprecated plugins

Note: Deprecated plugins are generally unsuitable for production use. These plugins are unmaintained, and should be considered 'obsolete' tools. QGIS does not recommend installing these plugins unless you still need it and there are no other alternatives available.

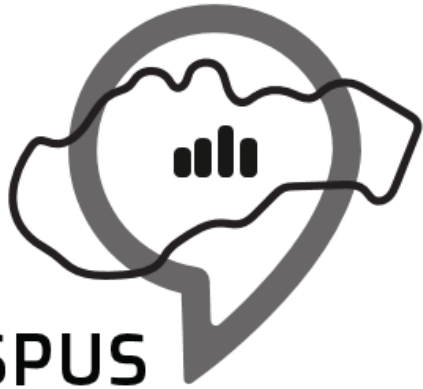
Plugin Repositories

Status	Name	URL
 connected	QGIS Official Plugin Repository	https://plugins.qgis.org/plugins/plugins.xml?qgis=3.26

Reload Repository

Add... Edit... Delete

Close Help



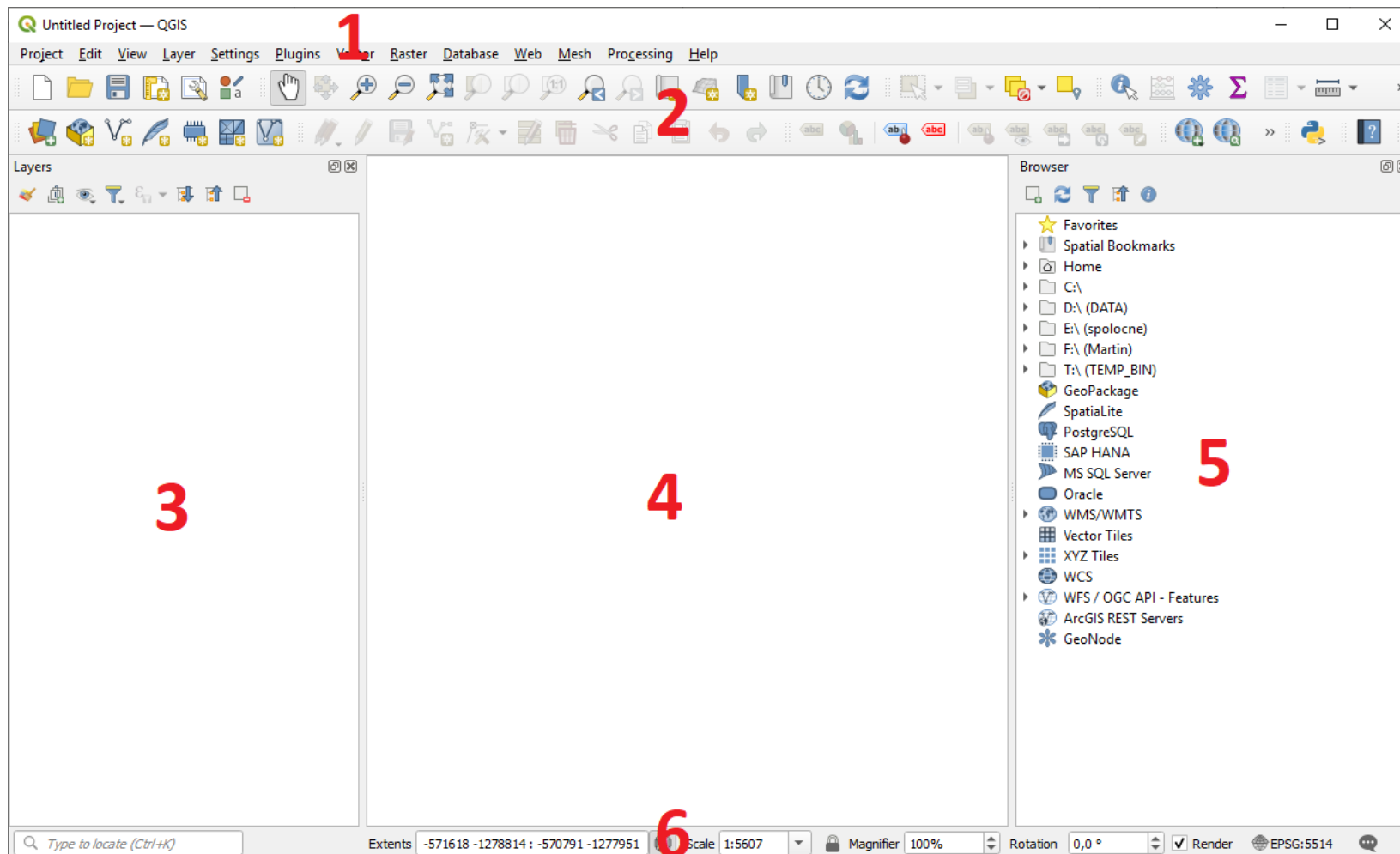
ESPUS

Efektívna správa priestorových údajov a služieb

Popis prostredia

Popis prostredia

- Hlavné menu **1**
- Nástroje **2**
- Panel vrstiev (TOC) **3**
- Mapové okno **4**
- Prehliadač dát **5**
- Stavový riadok **6**

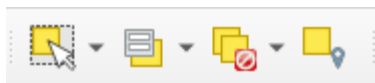


Nástroje

- Pohyb v okne



- Vyberanie



Nástroje

- Identifikácia



Identify Results

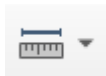
Feature	Value
▼ KOLAROVO_0-1	0
▶ KOLAROVO_0-1	
▼ zp_linie	
▶ nazov	cesta_1
▼ zp_body [2]	
▼ nazov	strom1
▶ (Derived)	
▶ (Actions)	
fid	1
nazov	strom1
vyska	5
datum	2. 5. 2022
druh	lipa
▶ nazov	strom2

Mode: Top Down

View: Tree

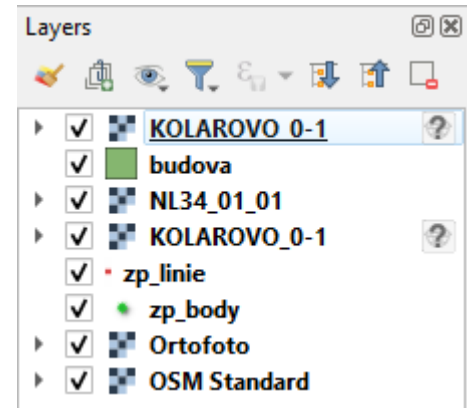
Nástroje

- Meranie
 - Dĺžky
 - Plochy
 - Uhly



Panel vrstiev (TOC)

- Zoznam vrstiev v mape
- Poradie zobrazenia
- Vlastnosti vrstiev
- Rozlíšenie vrstiev ikonou
- Rýchle nastavenie symboliky
- Zapnutia a vypnutie vrstvy
- Zoskupenie vrstiev
- Odstránenie vrstiev
- Viditeľnosť v mierkach



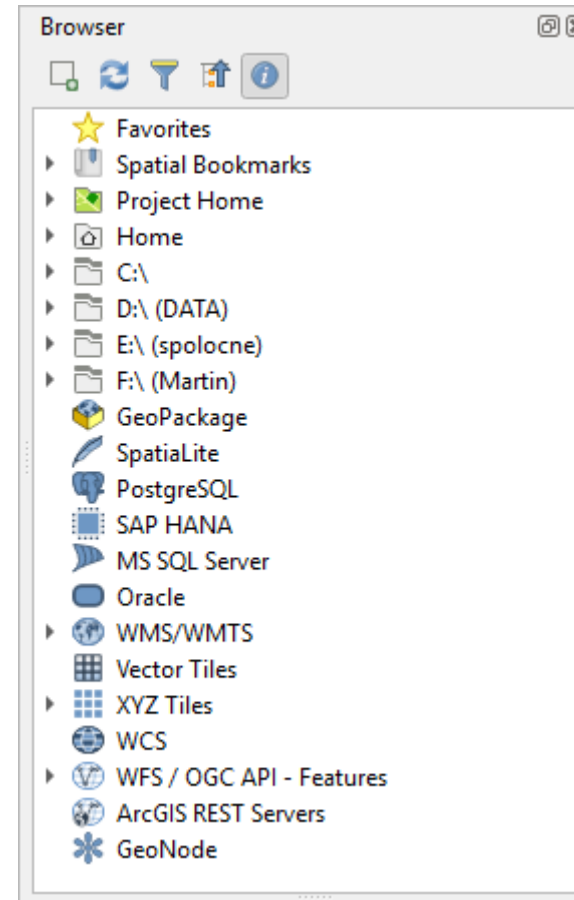
Mapové okno

- Zobrazenie pridaných vrstiev podľa nastavených parametrov



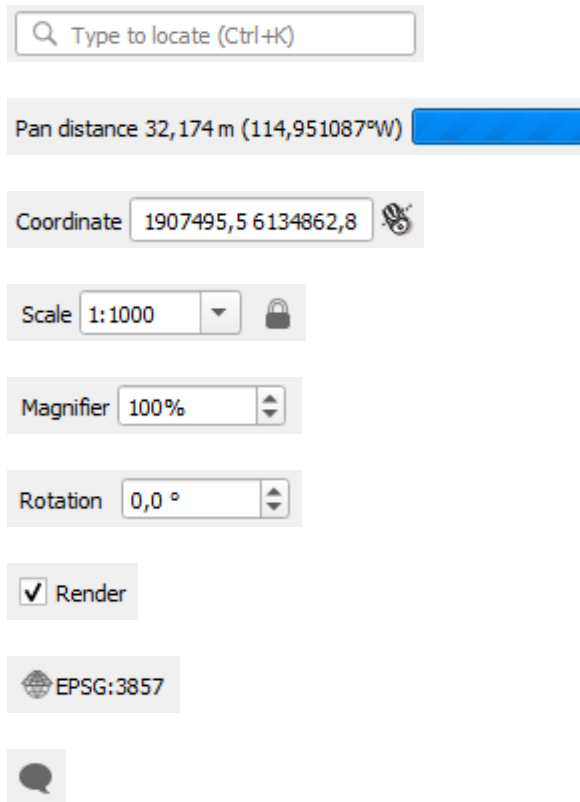
Prehliadač dát

- Správa zdrojov dát
- Lokálne adresáre
- Sieťové adresáre
- Databázy
- Mapové služby
- GIS servery



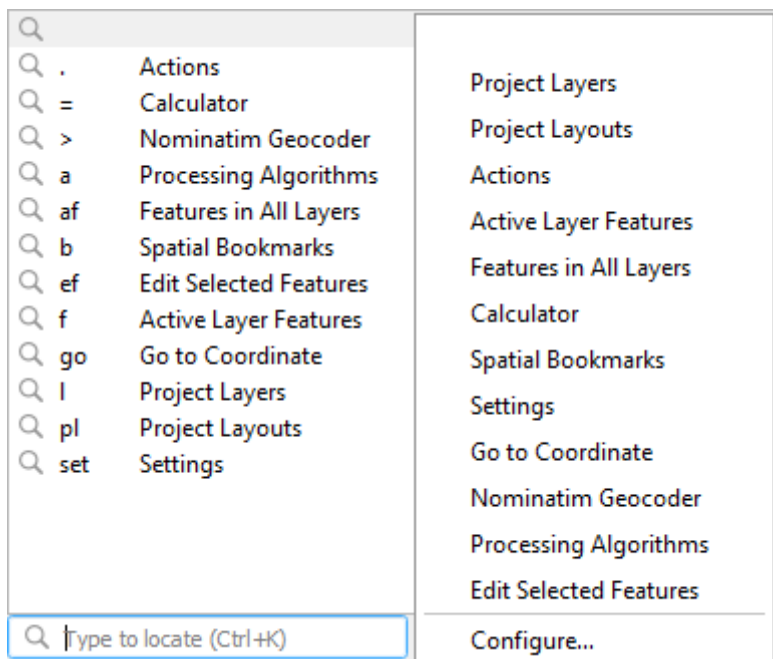
Stavový riadok

- Vyhľadávač
- Informácie o stave
- Súradnice
- Mierka
- Lupa
- Rotácia
- Prekresľovanie
- Súradnicový systém
- Logy

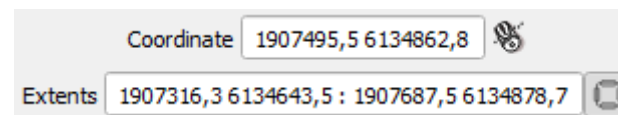


Stavový riadok

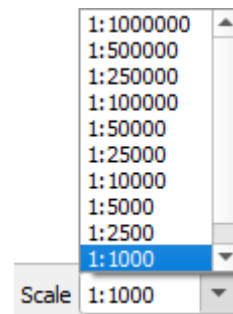
- Vyhľadávač



- Súradnice

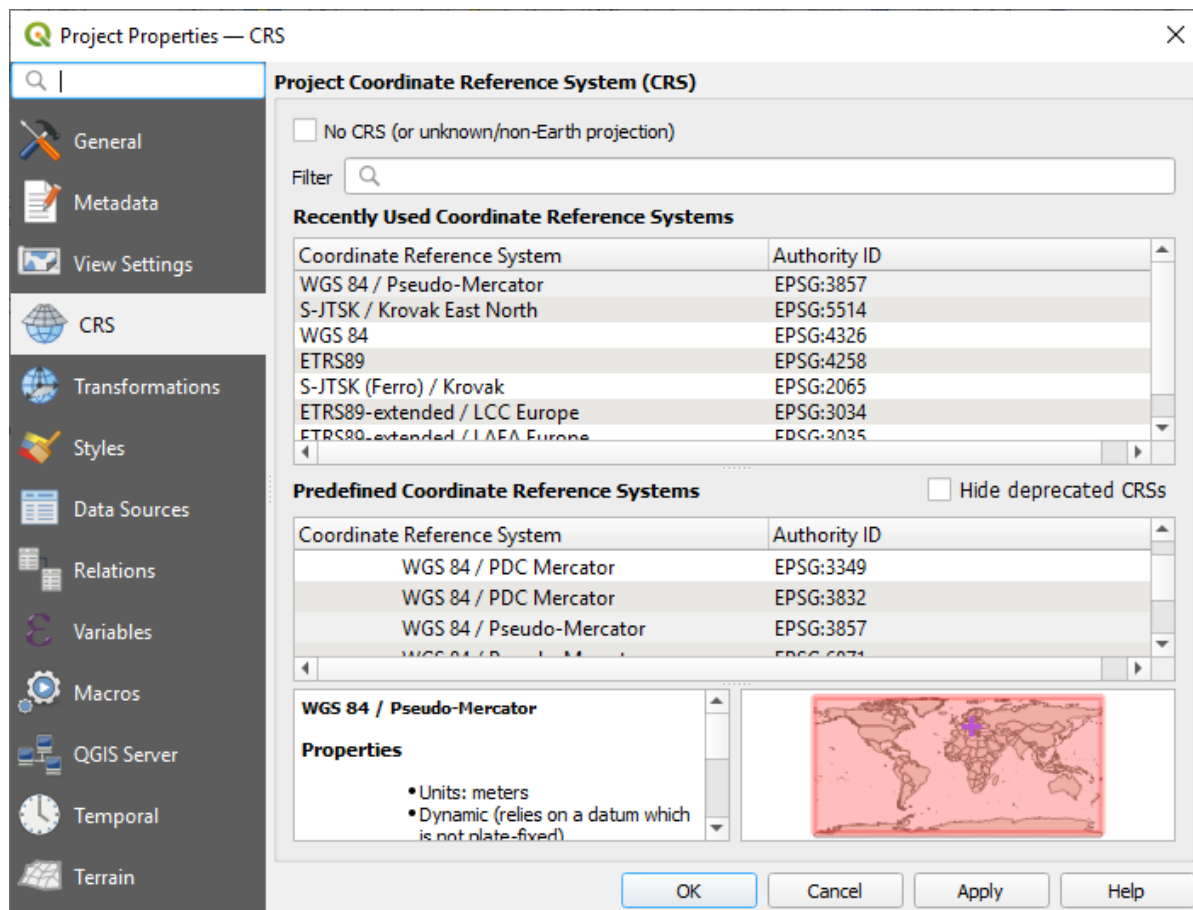


- Mierka



Stavový riadok

- Súradnicový systém



Názov v EPSG	EPSG kód	Názov v QGIS	Typ	Názov v RTS
S-JTSK [JTSK03]	8351	S-JTSK [JTSK03]	GCS	Bessel1841-LatLon (JTSK03)
S-JTSK [JTSK03] / Krovak East North	8353	S-JTSK [JTSK03] / Krovak East North	PCS	S-JTSK (JTSK03)
S-JTSK	4156	S-JTSK	GCS	Bessel1841-LatLon (JTSK)
S-JTSK / Krovak East North	5514	S-JTSK / Krovak East North	PCS	S-JTSK (JTSK)
ETRS89	4258	ETRS89	GCS	ETRS89-LatLonh
ETRS89 / UTM zone 33N	3045; 25833	ETRS89 / UTM zone 33N (N-E)	PCS	ETRS89-TM33
ETRS89 / UTM zone 34N	3046; 25834	ETRS89 / UTM zone 34N (N-E)	PCS	ETRS89-TM34
ETRS89 / LAEA	3035	ETRS89-extended / LAEA Europe	PCS	ETRS89-LAEA
ETRS89 / LCC	3034	ETRS89-extended / LCC Europe	PCS	ETRS89-LCC
WGS84	4326	WGS 84	GCS	-
WGS84 / Pseudo-Mercator	3857	WGS 84 / Pseudo-Mercator	PCS	-
WGS84 / UTM zone 33N	32633	WGS 84 / UTM zone 33N	PCS	-
WGS84 / UTM zone 34N	32634	WGS 84 / UTM zone 34N	PCS	-

Základné nastavenia

- Nastavenie panelov

Panels	
<input type="checkbox"/>	Advanced Digitizing Panel
<input type="checkbox"/>	Browser (2) Panel
<input checked="" type="checkbox"/>	Browser Panel
<input type="checkbox"/>	Debugging/Development Tools Panel
<input type="checkbox"/>	GPS Information Panel
<input type="checkbox"/>	GRASS Tools Panel
<input type="checkbox"/>	Layer Order Panel
<input type="checkbox"/>	Layer Styling Panel
<input checked="" type="checkbox"/>	Layers Panel
<input type="checkbox"/>	Log Messages Panel
<input type="checkbox"/>	Overview Panel
<input type="checkbox"/>	Processing Toolbox Panel
<input type="checkbox"/>	Results Viewer Panel
<input checked="" type="checkbox"/>	Search QMS Panel
<input type="checkbox"/>	Spatial Bookmark Manager Panel
<input type="checkbox"/>	Statistics Panel
<input type="checkbox"/>	Temporal Controller Panel
<input type="checkbox"/>	Tile Scale Panel
<input type="checkbox"/>	Undo/Redo Panel
<input type="checkbox"/>	Vertex Editor Panel

- Nastavenie nástrojových líšt

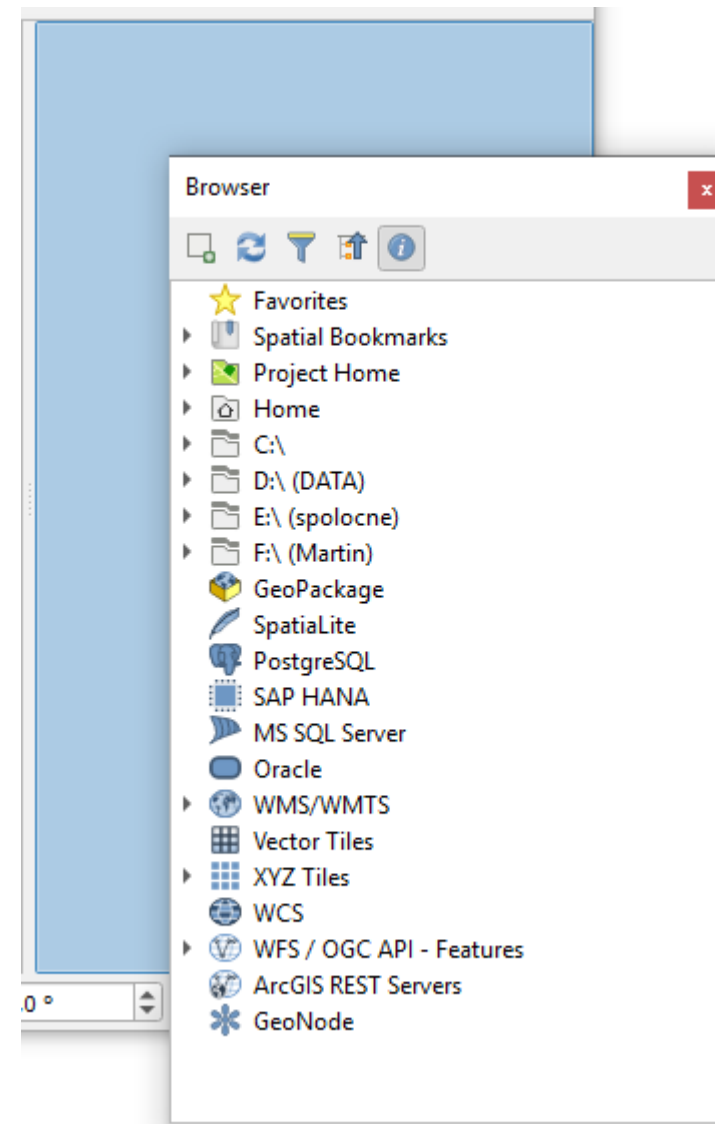
Toolbars	
<input type="checkbox"/>	Advanced Digitizing Toolbar
<input type="checkbox"/>	Annotations Toolbar
<input checked="" type="checkbox"/>	Attributes Toolbar
<input checked="" type="checkbox"/>	Data Source Manager Toolbar
<input type="checkbox"/>	Database Toolbar
<input checked="" type="checkbox"/>	Digitizing Toolbar
<input type="checkbox"/>	GRASS
<input checked="" type="checkbox"/>	Help Toolbar
<input checked="" type="checkbox"/>	Label Toolbar
<input type="checkbox"/>	Manage Layers Toolbar
<input checked="" type="checkbox"/>	Map Navigation Toolbar
<input type="checkbox"/>	Mesh Digitizing Toolbar
<input checked="" type="checkbox"/>	Plugins Toolbar
<input checked="" type="checkbox"/>	Project Toolbar
<input type="checkbox"/>	Raster Toolbar
<input checked="" type="checkbox"/>	Selection Toolbar
<input type="checkbox"/>	Shape Digitizing Toolbar
<input type="checkbox"/>	Snapping Toolbar
<input checked="" type="checkbox"/>	Vector Toolbar
<input checked="" type="checkbox"/>	Web Toolbar

Základné nastavenia

- Úprava umiestnenia nástrojov posunom

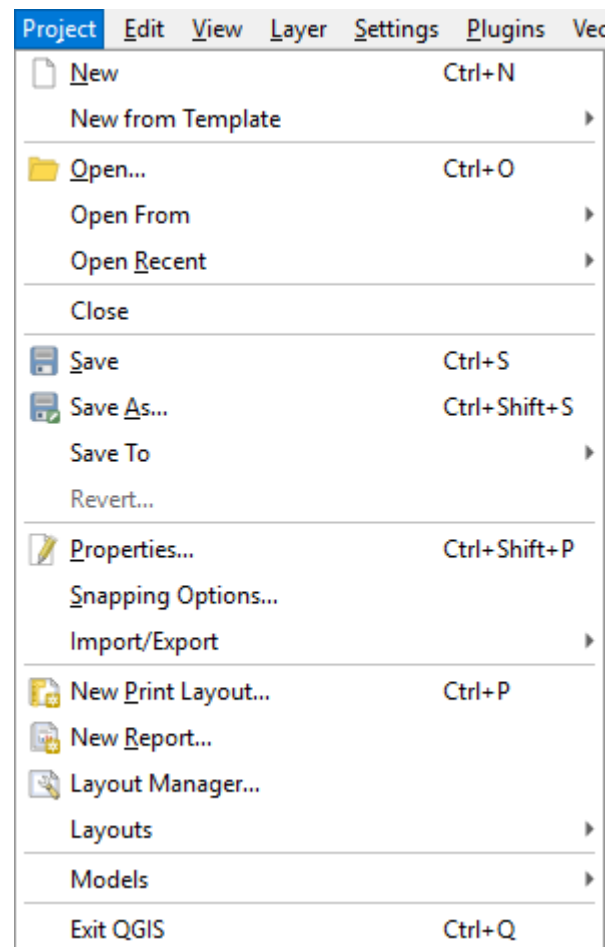


- Uchytenie panela



Správa projektu

- Nový projekt
- Otvorenie projektu
- Uloženie projektu
 - QGS (XML); QGZ



Správa projektu

- Typy umiestnenia dát
 - Správa zdrojov dát
 - Lokálne adresáre
 - Sieťové adresáre
 - Databázy
 - Mapové služby
 - GIS servery

The image displays three screenshots of the 'Layer Properties' dialog box in a GIS application, showing the 'General' tab for different layers.

Layer Properties — Ortofoto — Information

Name	Ortofoto
URL	https://zbgisws.skgeodesy.sk/zbgis_ortofoto_wms/service.svc/get
Source	contextualWMSLegend=0&crs=EPSG:4326&dpiMode=7&featureCount=10&format=image/jpeg&layers=1&styles&url=https://zbgisws.skgeodesy.sk/zbgis_ortofoto_wms/service.svc/get
Provider	wms

Layer Properties — OSM Standard — Information

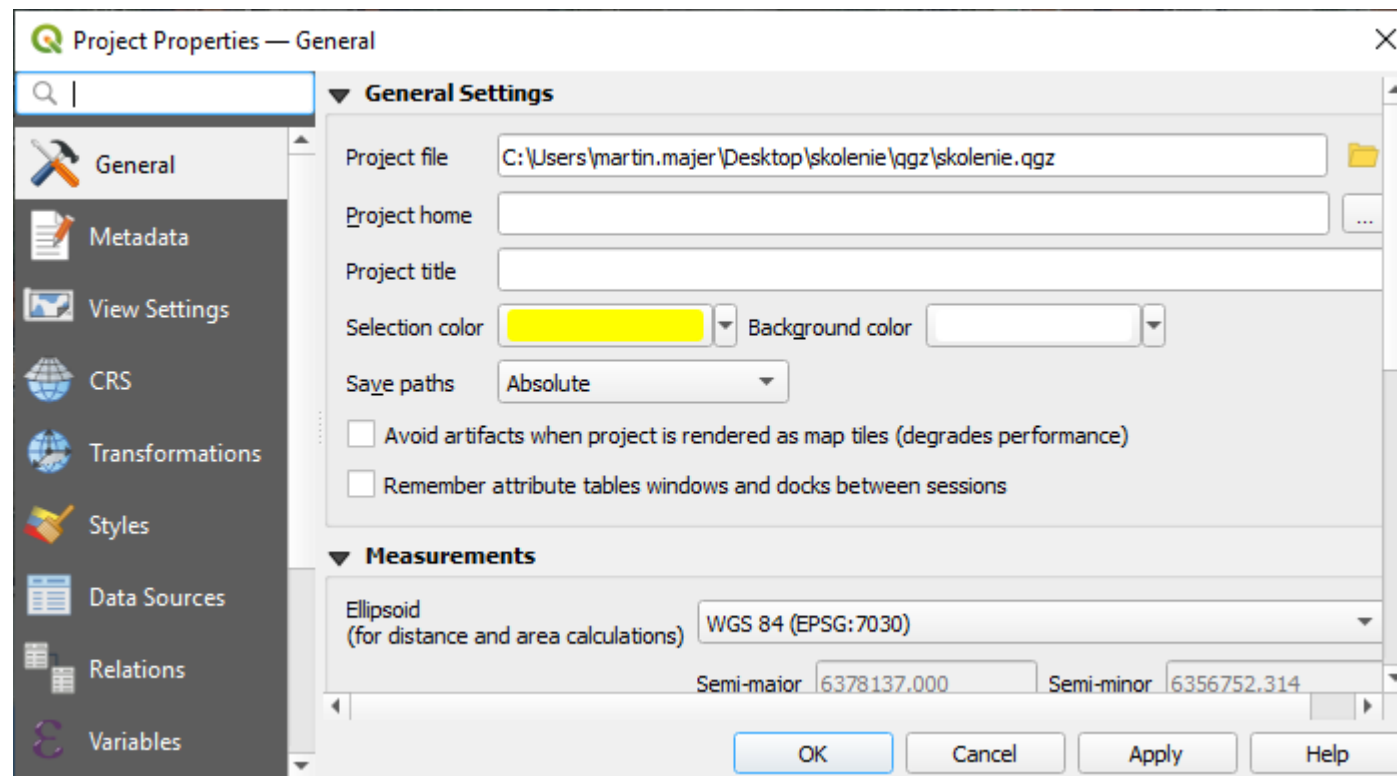
Name	OSM Standard
URL	http://tile.openstreetmap.org/{z}/{x}/{y}.png
Source	crs=EPSG:3857&format&type=xyz&url=http://tile.openstreetmap.org/%7Bz%7D/%7Bx%7D/%7By%7D.png&zmax=19&zmin=0
Provider	wms

Layer Properties — budova — Information

Name	budova
Path	D:\Dokumenty\Robota\MZP\Ukazky\zakladne_pojmy\new2.gpkg
Size	96 KB
Source	D:/Dokumenty/Robota/MZP/Ukazky/zakladne_pojmy/new2.gpkg; layername=budova
Provider	ogr

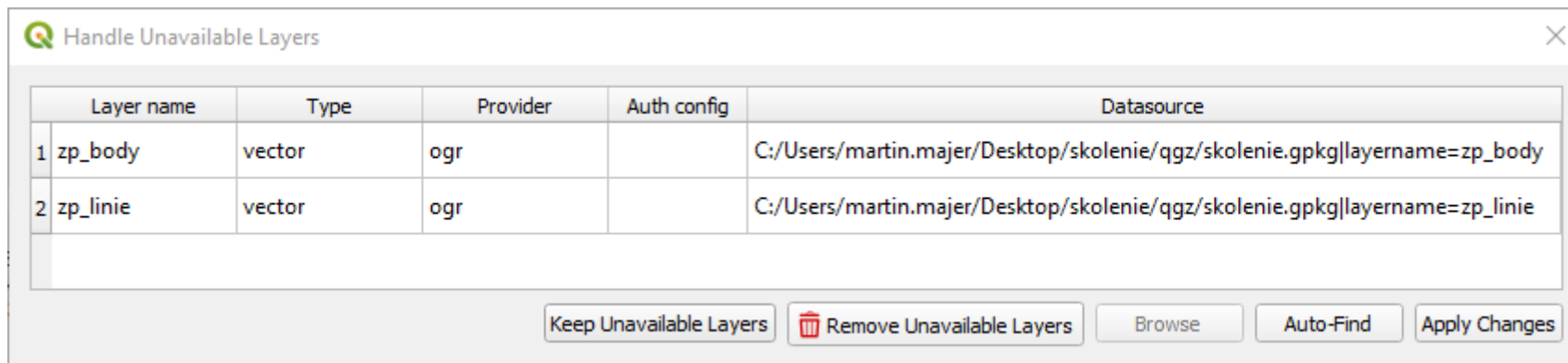
Správa projektu

- Absolútne cesty
- Relatívne cesty

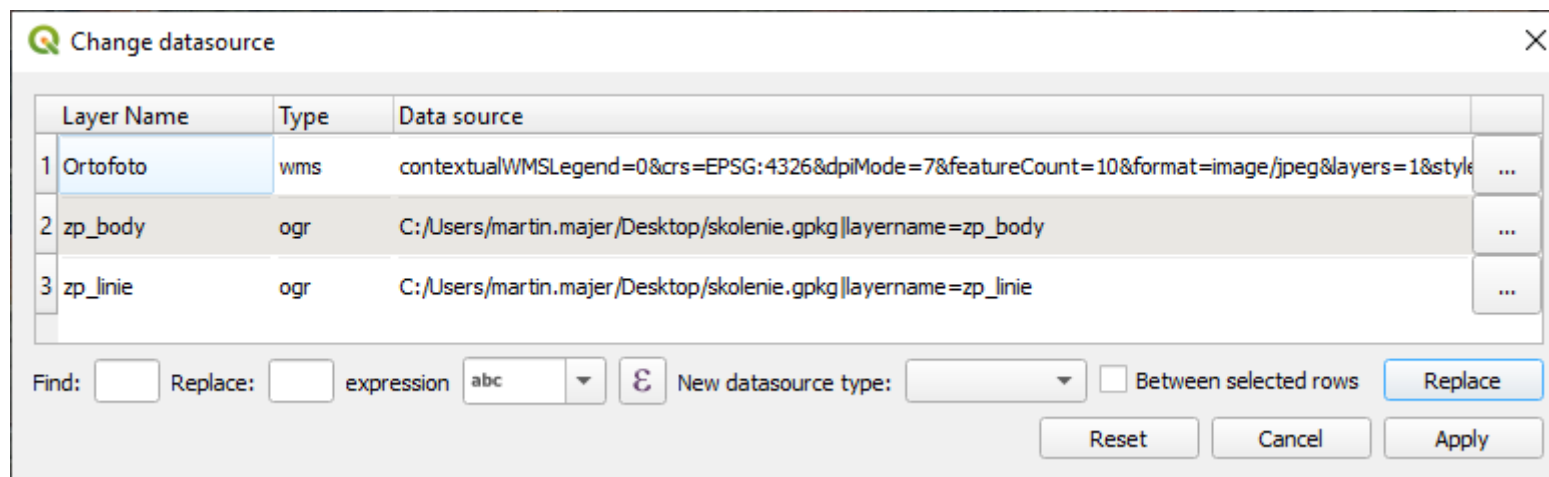


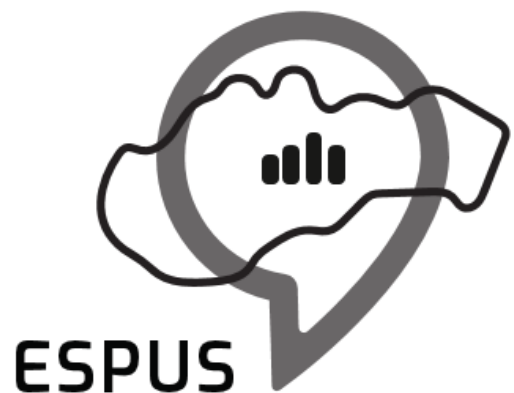
Správa projektu

- Oprava ciest



- Hromadné zmena ciest





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Efektívna správa priestorových údajov a služieb

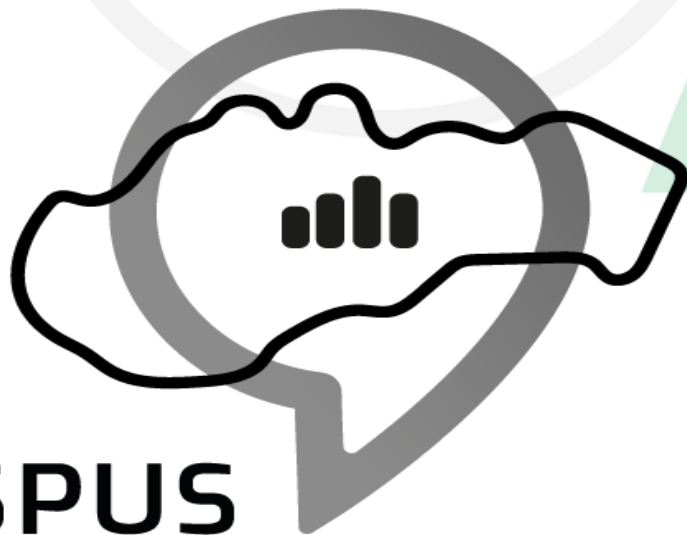
Ďakujem za pozornosť!

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