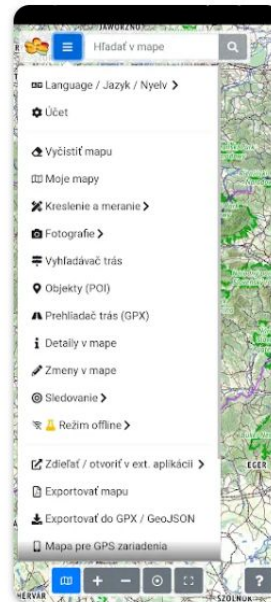
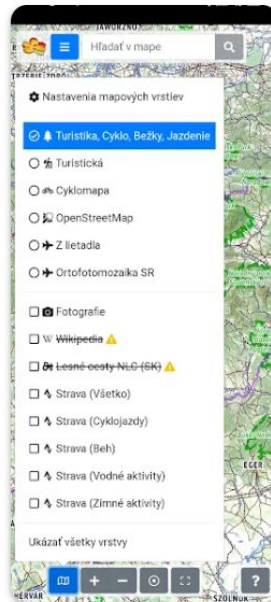


Freemap Slovakia 2022 news

by Martin Ždila

“Native” app for Android

- [App on Google Play](#)
- TWA
- Bubblewrap



GraphHopper routing

- GraphHopper 5 (patched)
- [Classic routing](#)
- [Random trips](#)
- [Isochrones](#)
- Plans to upgrade to v6

The screenshot displays the GraphHopper web interface. At the top, there are navigation buttons: "Vyhľadávač trás" (Route Finder), "Turistika GraphHopper" (Tourism GraphHopper), "Najrýchlejšia" (Fastest), "Štart" (Start), and "Ciel" (Destination). A dropdown menu is open, listing various transport modes with icons: OSRM, Auto (with tolls), Auto (without tolls), Bicykel, Cykloturistika, Pešo, Bežky, Zjazdové lyžovanie, GraphHopper (with a person icon), Auto (with tolls), Motocykel, Cestný bicykel, Cykloturistika, Horský bicykel, Pešo, **Turistika** (highlighted in blue), and S kočíkom / vozičkom. The background shows a map of a mountainous region with a blue route highlighted. A tooltip in the bottom right corner of the map indicates: "Vzdialenosť: 44,9 km" and "Trvanie: 11 h 7 m".

Random trips

Vyhľadávač trás × Turistika GraphHopper Najrýchlejšia Výlet Start Výškový profil

V určenom poradí

Výlet

Parametre výletu

Vzdialenosť

20.0 km

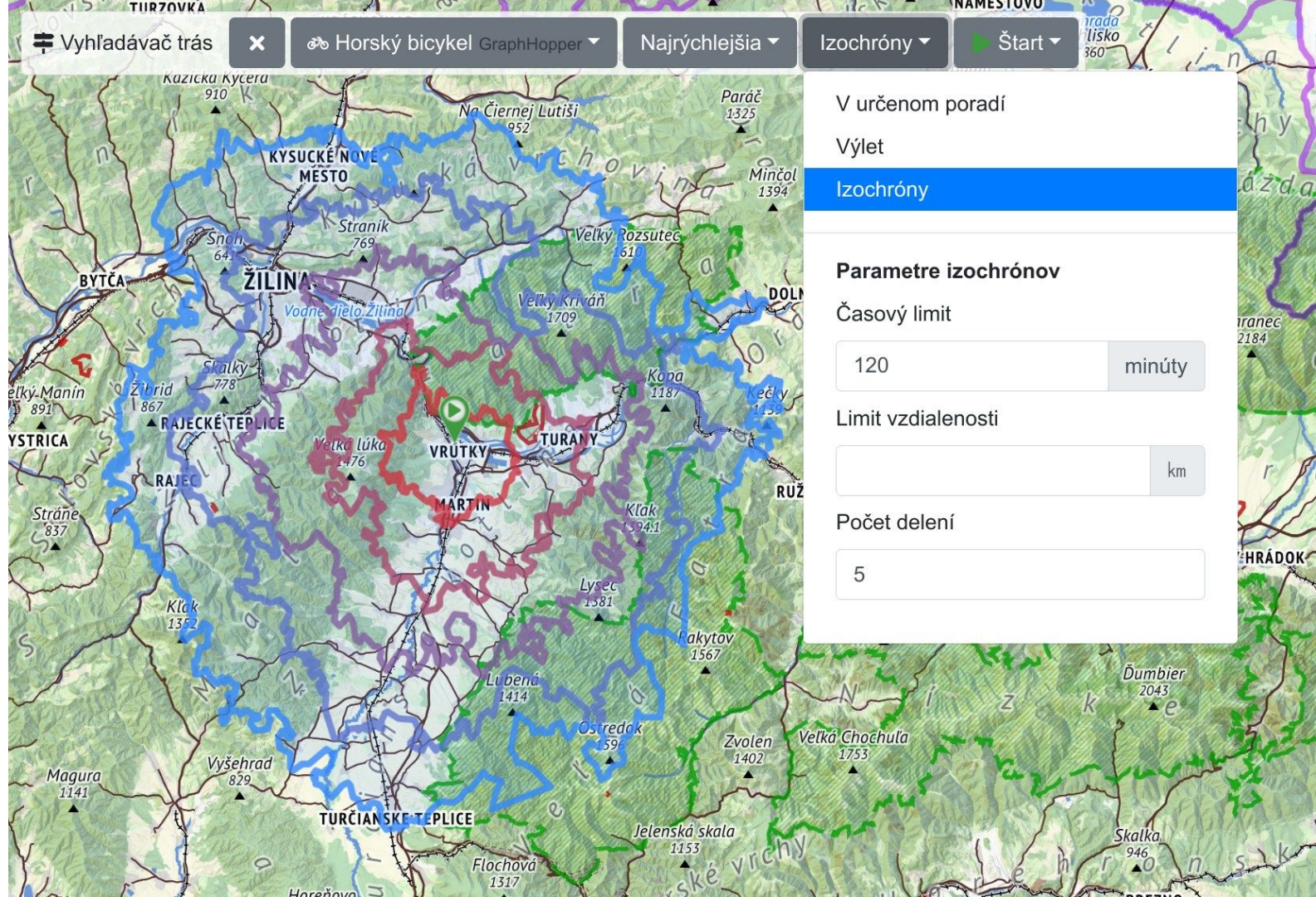
Random seed

1

Vzdialenosť: 31,4 km
Trvanie: 7 h 24 m

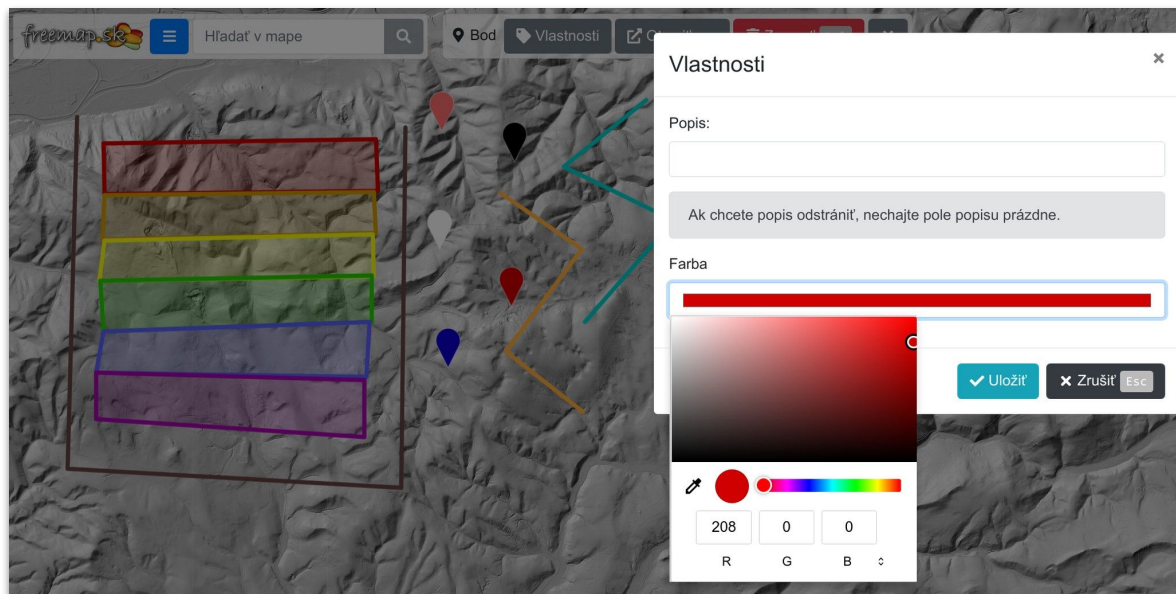
MURÁNSKA
LEHOTA
MURÁNSKA
DLHÁ
LÚKA
REVÚCA
MOKRÁ LÚKA

Isochrones



Colour drawing

- Colour
- Width
- [Demo](#)



Shared custom maps

Moje mapy ×

Mapa *Freemap parties*

Názov

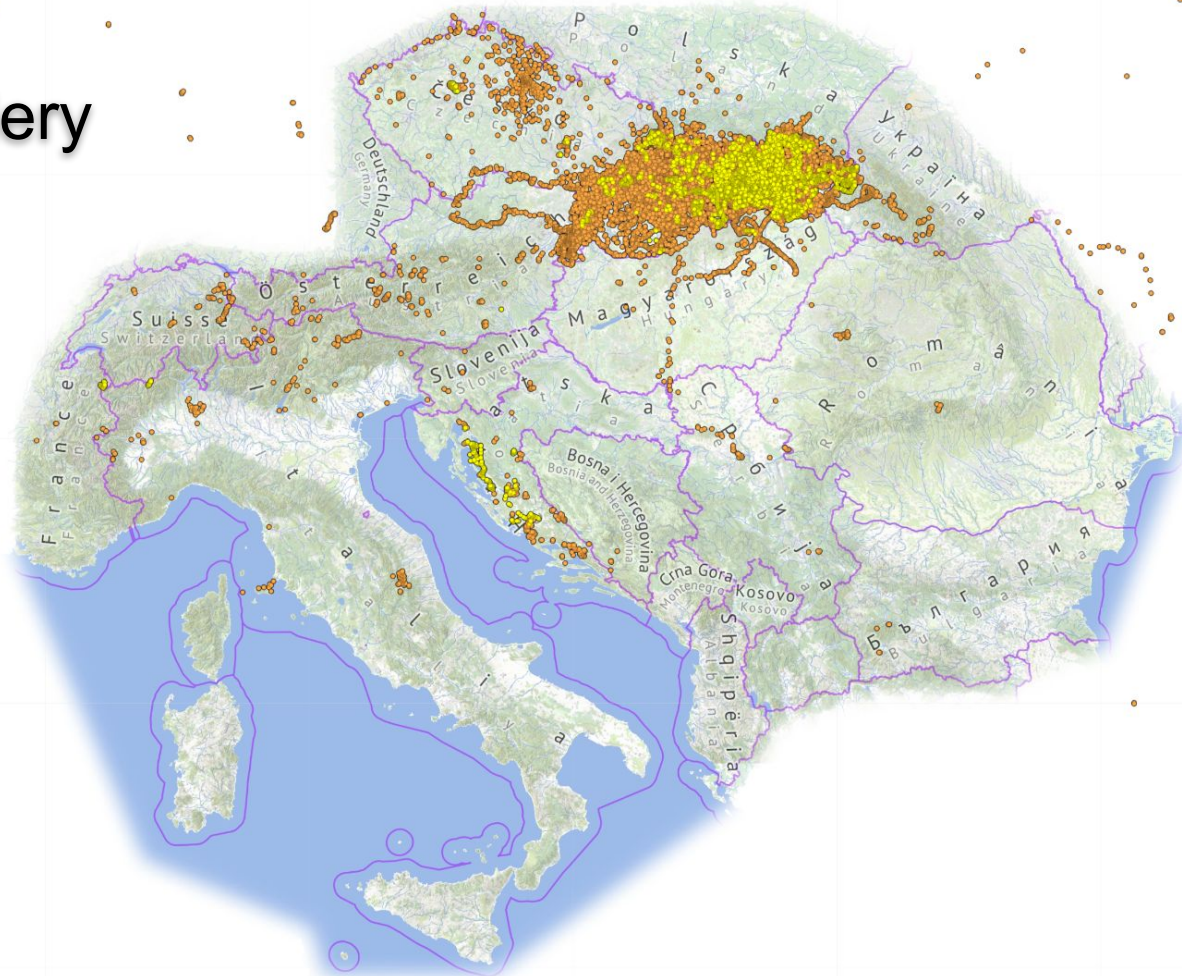
Editori

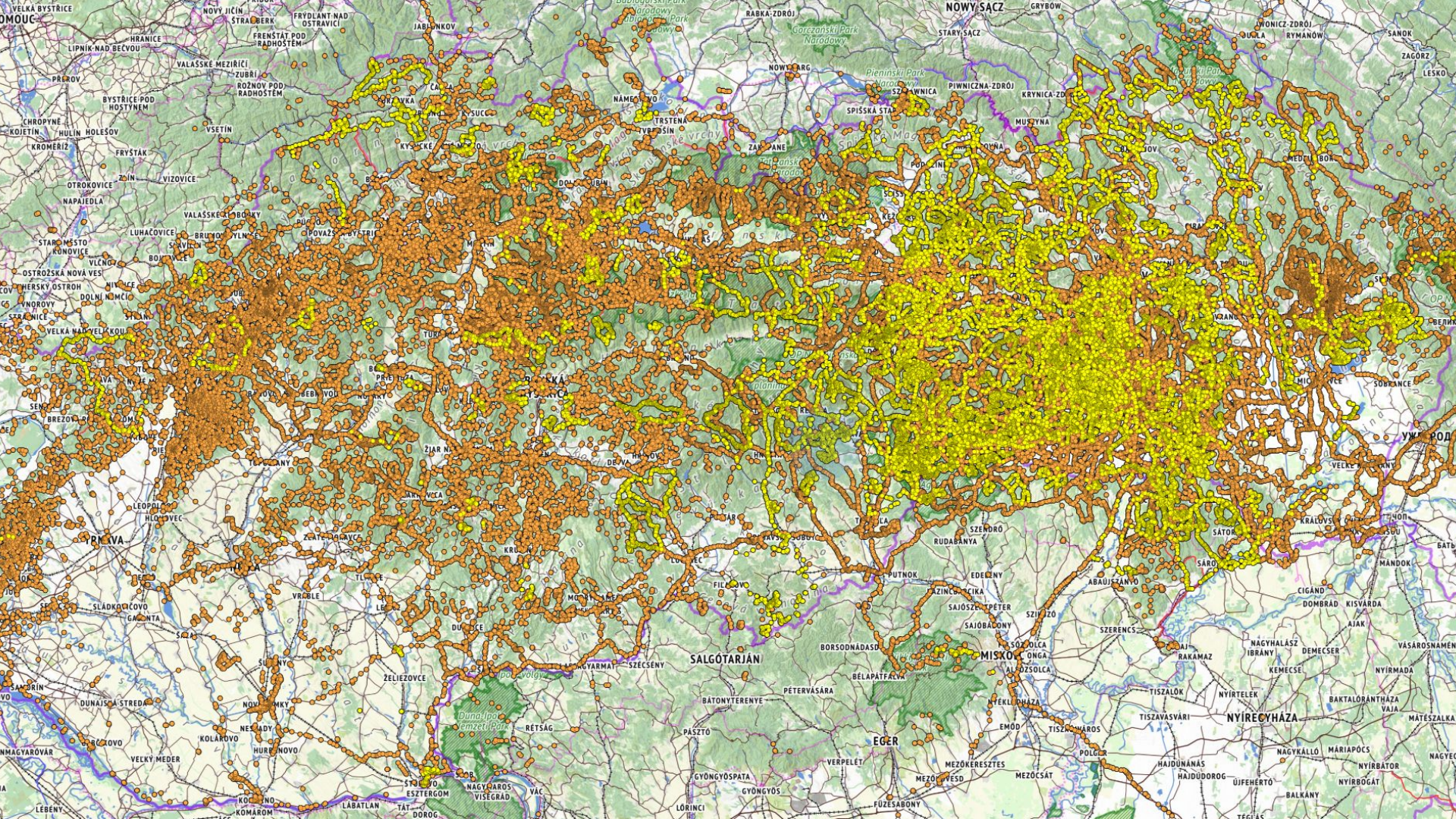
Uložené mapy

<input type="text"/>		
----------------------	--	--

Photo gallery

423269






```
MariaDB [freemap]> select count(*) as cnt, name from picture join pictureTag on pictureId = id group by name order by cnt desc limit 30;
```

cnt	name
7706	turistický rázcestník
5070	cyklorázcestník
2952	informačná tabuľa
1439	kostol
1278	kríž
1195	výhľad
1194	prameň
1151	np donauauen
1116	prístrešok
897	posed
801	chata
721	vodná nádrž
716	pamätník
602	kaplnka
590	marchauen
545	most
502	mapa
424	hrad
377	železnica
372	jaskyňa
351	smerovník
345	ohnisko
335	bežkársky rázcestník
331	potok
330	kesselfall
314	cesta
290	zrúcanina
249	cyklo
249	kaštieľ
243	socha

```
30 rows in set (0.122 sec)
```



```
MariaDB [freemap]> select count(*) as cnt, name from picture join user on userId = user.id group by name order by cnt desc limit 30;
```

cnt	name
120579	Pavo1G
95653	*Martin*
40045	Homer-J
21146	Blazej Polacko
15724	Kurt Nadler
13903	Dunčo
10139	+matushaun
9949	Milan Chochlik
8515	yalessblue
6699	!!! Juraj Zermegh !!!
6137	billesik
6126	Peter Vojtek
5678	thailon
5084	eastern-slovakia
4928	laznik
4572	Filip009
3981	Mirecnet
3396	BelKed
3049	šegi
2632	ao66
2220	pampuch
1652	ondrej chopper
1640	LocoG
1503	Dodko
1473	vlado saro
1386	lubosb
1205	Lubo Chladny
1146	jozok
1019	VSA
890	Vladimír Janiga

```
30 rows in set (0.146 sec)
```

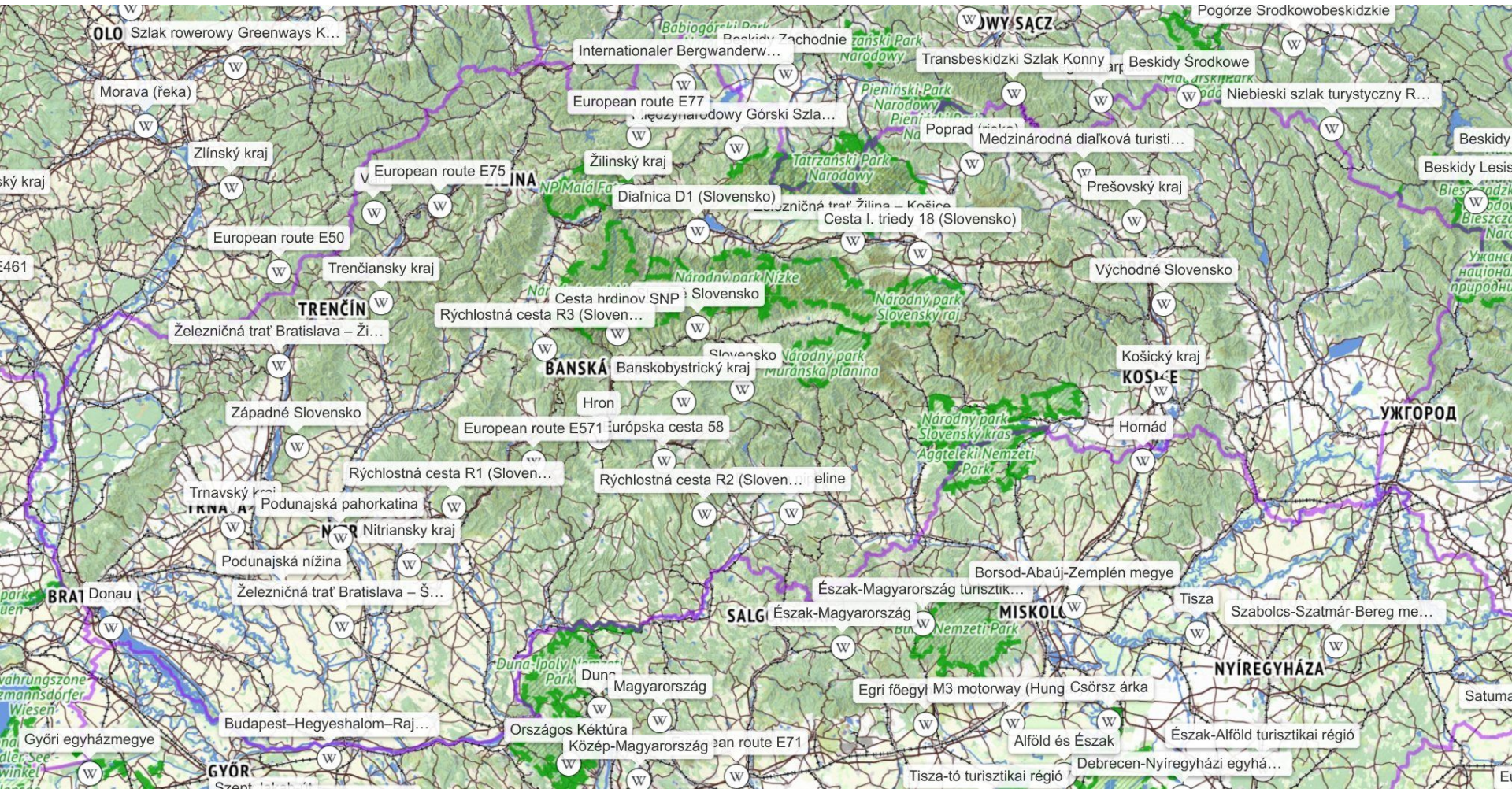
360° panorama photo support

- [Demo](#)



Improved Wikipedia Layer

- less dense in cities / towns
- now accessible also in lower zooms with relevant content
- article preview in nice modal instead of marker pop-up
- <https://github.com/FreemapSlovakia/WikiPois>
- [demo](#)



OLO Szlak rowerowy Greenways K...

Morava (řeka)

Zlínský kraj

European route E75

European route E50

Trenčiansky kraj

TREŇČÍN

Železničná trať Bratislava – Ži...

Západné Slovensko

Rýchlostná cesta R3 (Sloven...

BANSKÁ

Banskobystrický kraj

European route E571 európska cesta 58

Rýchlostná cesta R1 (Sloven...

Rýchlostná cesta R2 (Sloven... eline

Trnavský kraj

TRNAVA

Podunajská pahorkatina

NITRA

Nitriansky kraj

Podunajská nížina

Železničná trať Bratislava – Š...

BRAJKA

Donau

Budapest–Hegyeshalom–Raj...

GYŐR

Duna-Ípóly Nemzeti Park

Dunakanyar Nemzeti Park

Magyarország

Országos Kéktúra

Közép-Magyarország

SALGATYÁN

Észak-Magyarország

MISKOLC

Észak-Magyarország turisztik...

Egri főegyházi M3 motorway (Hung Csörsz árka

Alföld és Észak

Tisza-tó turisztikai régió

NYÍREGYHÁZA

Észak-Alföld turisztikai régió

Debrecen-Nyíregyházi egyhá...

Internationaler Bergwander...

European route E77

Žilinský kraj

Diaľnica D1 (Slovensko)

Cesta I. triedy 18 (Slovensko)

Cesta hrdinov SNP Slovensko

BANSKÁ BYSTRICA

Hron

Transbeskidzki Szlak Konny

Poprad

Medzinárodná diaľková turisti...

Prešovský kraj

Východné Slovensko

Košický kraj

KOŠICE

Hornád

УЖГОРОД

Borsod-Abaúj-Zemplén megye

Észak-Magyarország turisztik...

Szabolcs-Szatmár-Bereg me...

Észak-Alföld turisztikai régió

Tisza-tó turisztikai régió

Pogórze Srodkowobeskidzkie

Niebieski szlak turystyczny R...

Beskidy Lesis

Beskidy Lesis

Bieszczady

Bieszczady

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

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Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

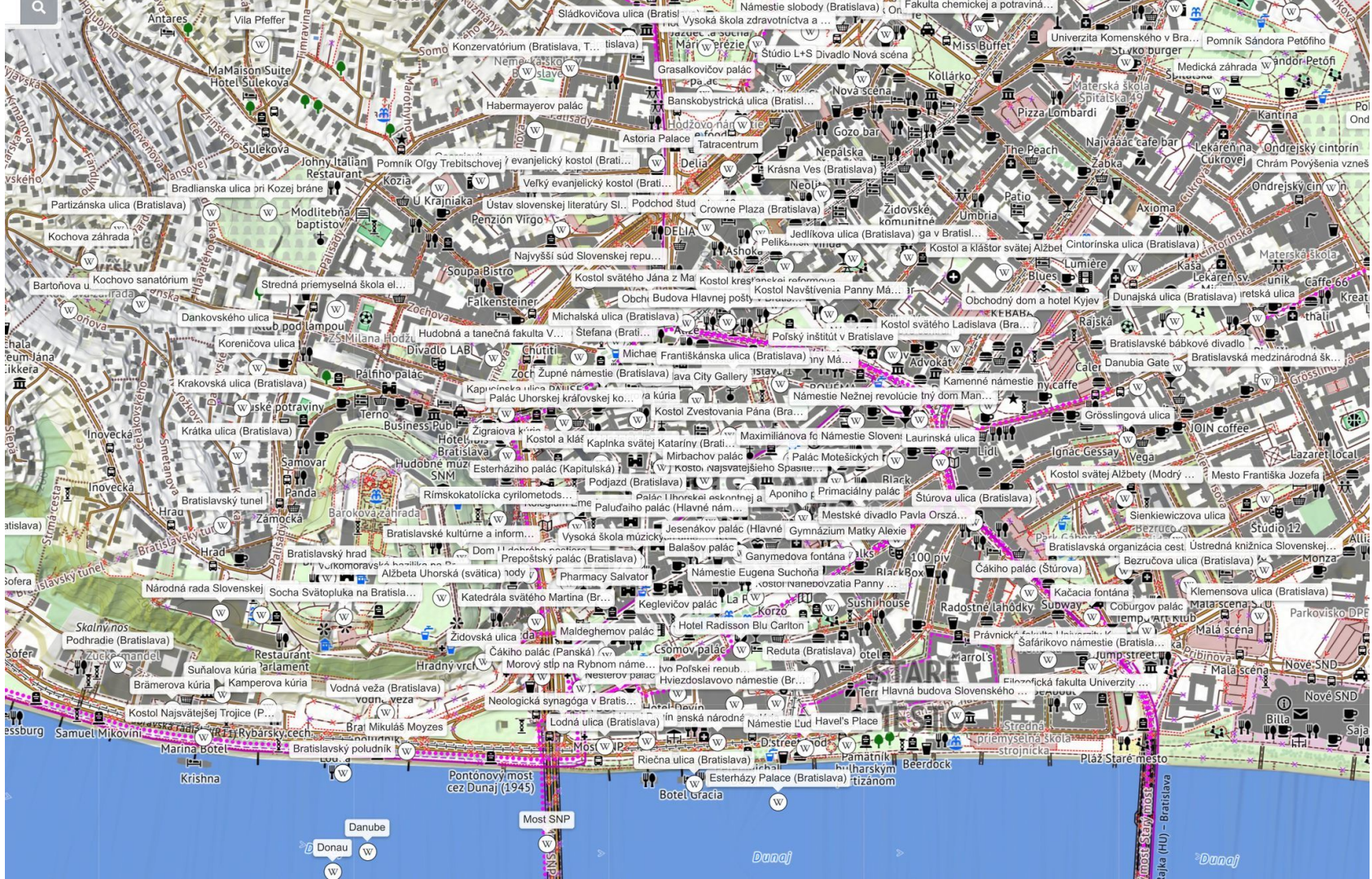
Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

Ужанскі нацыянальны парк

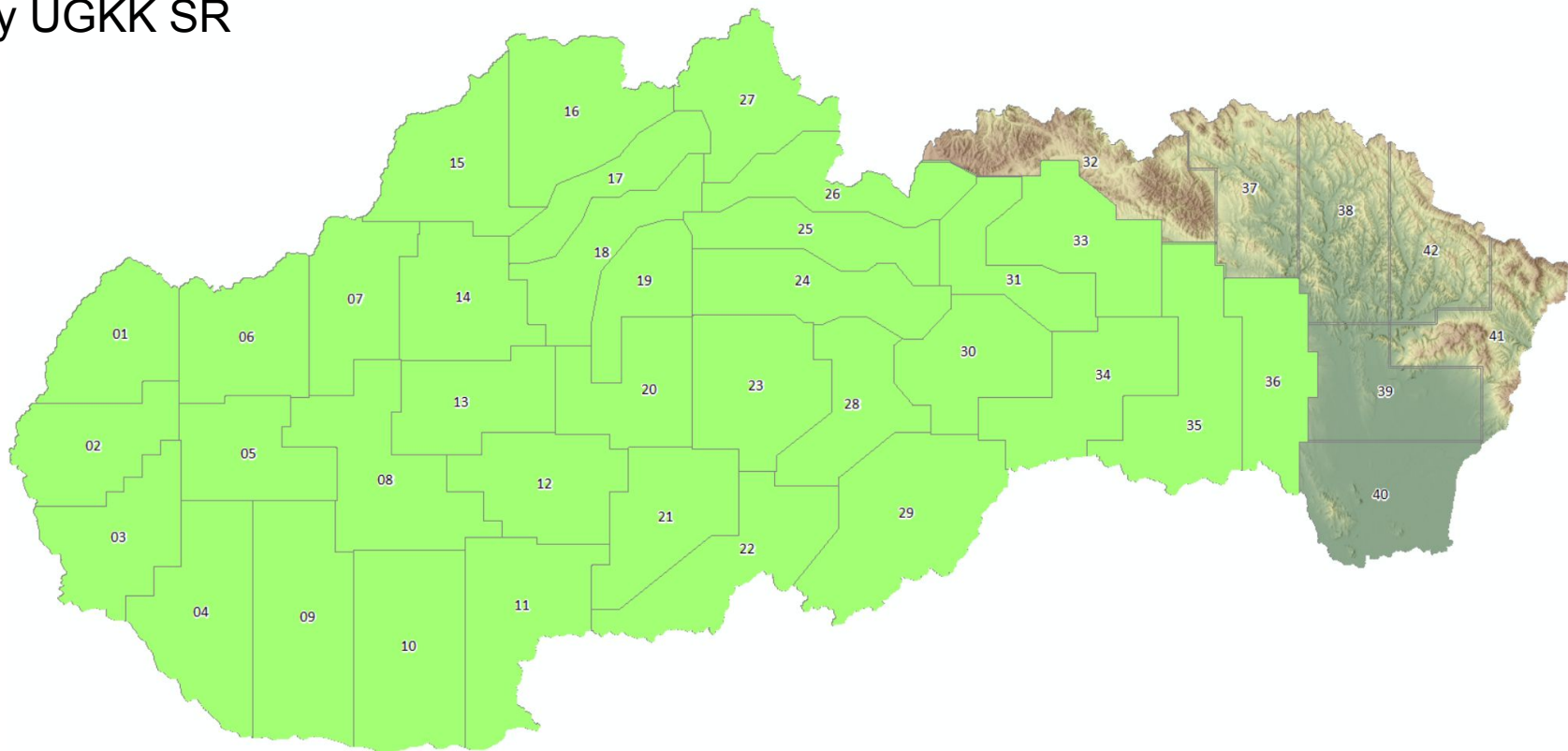


Ortofotomozaika SR update (Middle Slovakia)



Lidar coverage (Slovakia)

by ÚGKK SR





Hi(gher) hillshading resolution outside of Slovakia

- Poland (partial)
- Slovenia
- Switzerland
- Austria
- Italy (trying to get even higher resolution)

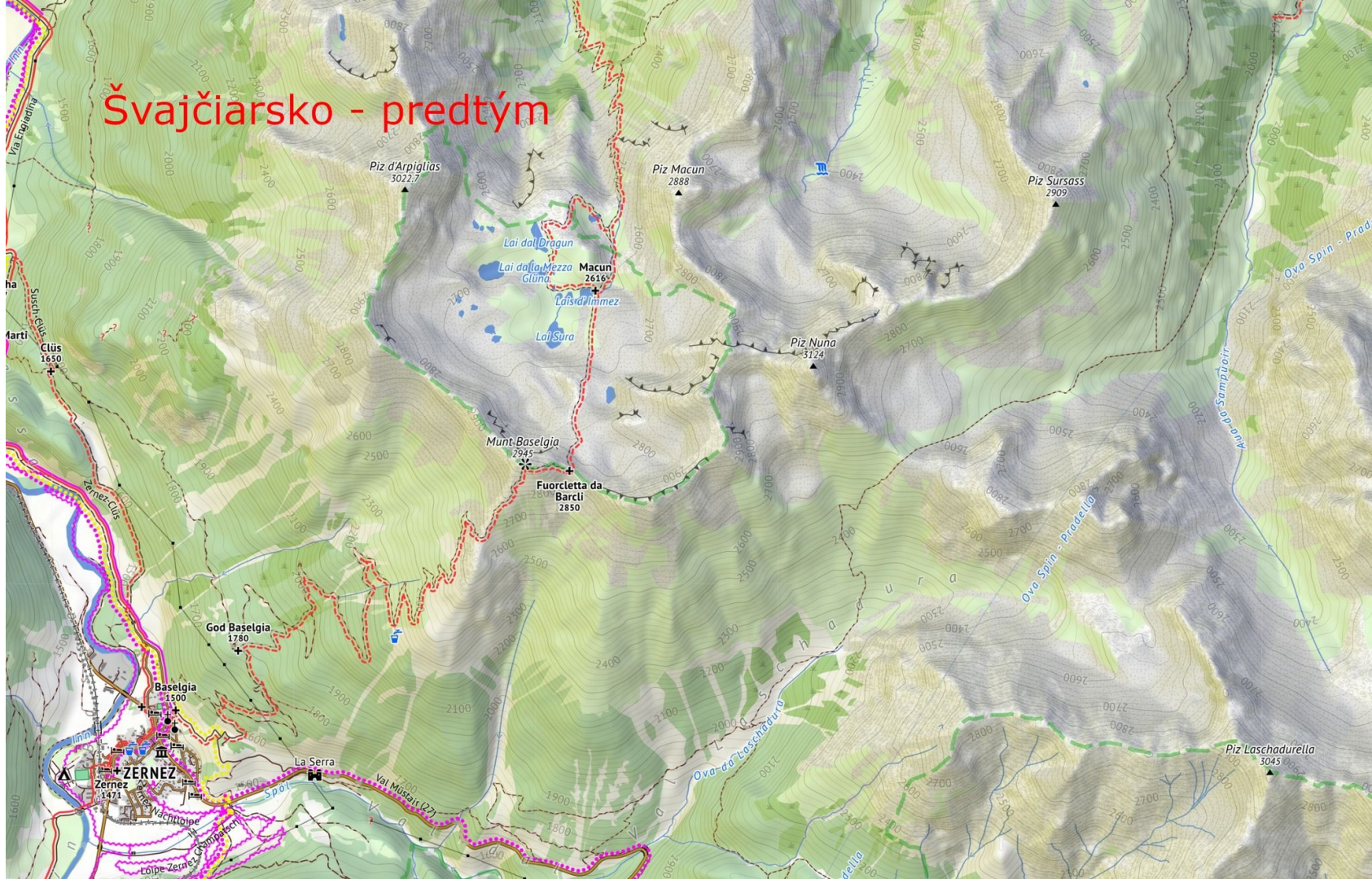
Rakúsko - predtým



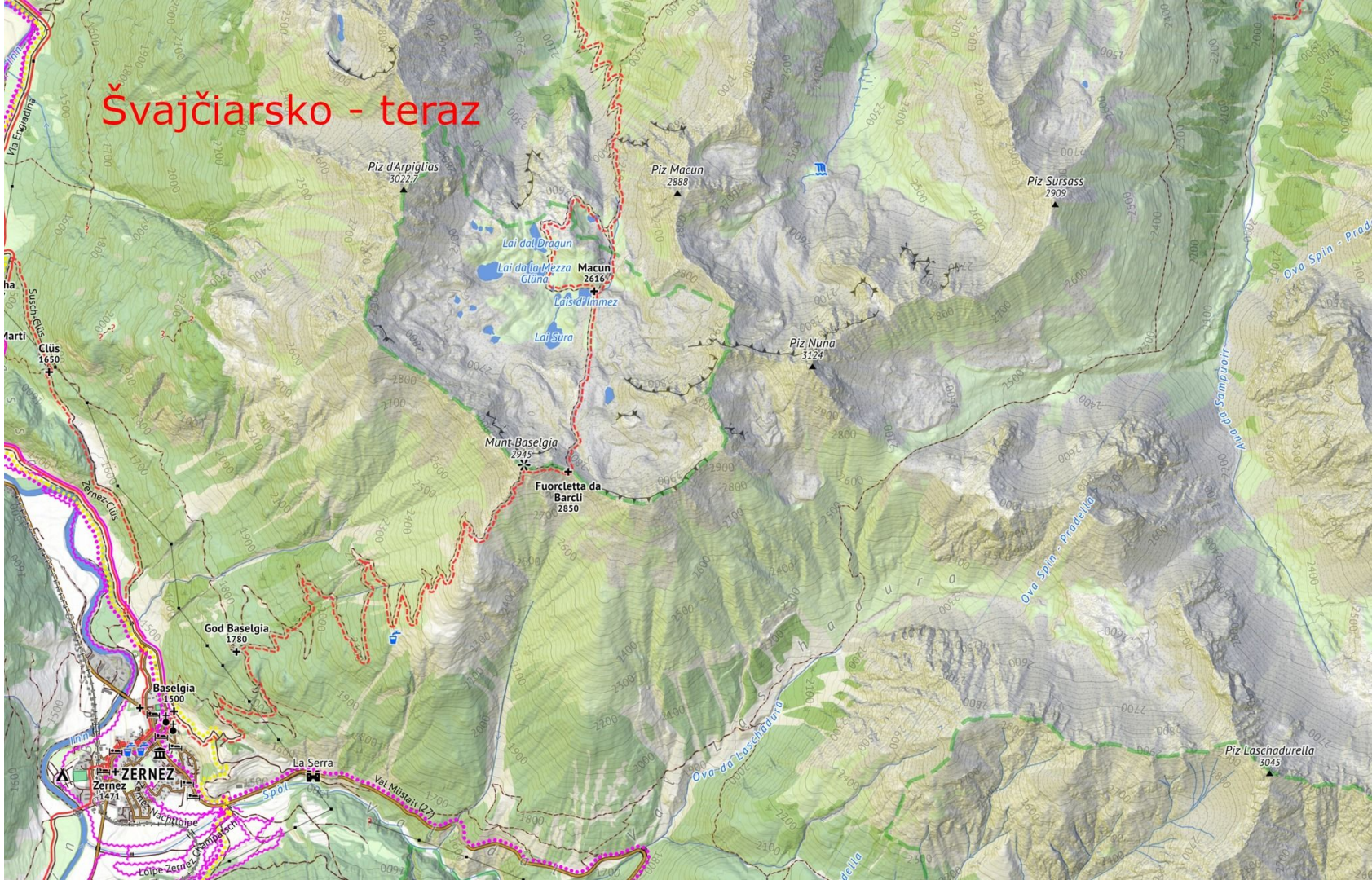
Rakúsko - teraz



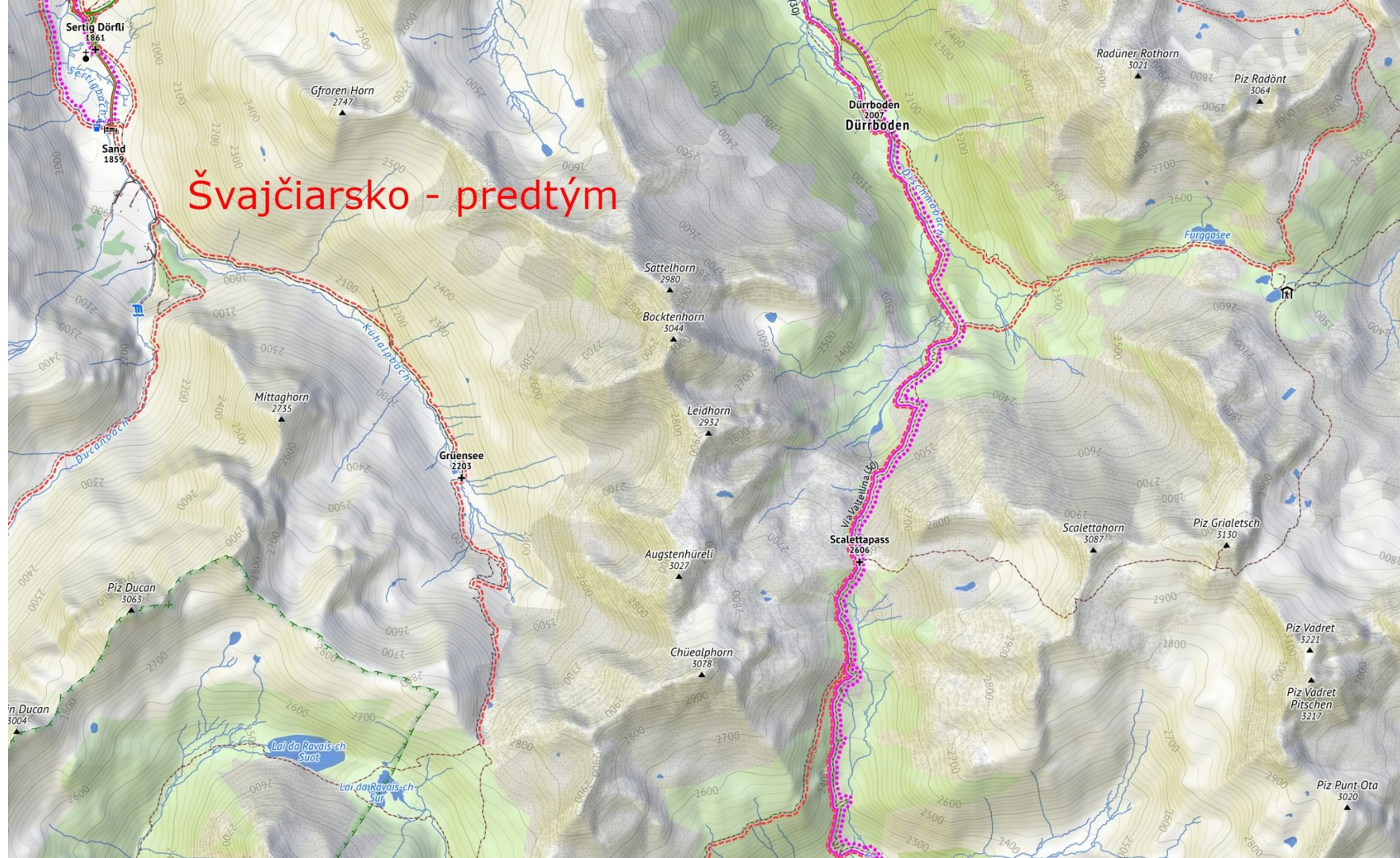
Švajčiarsko - predtým



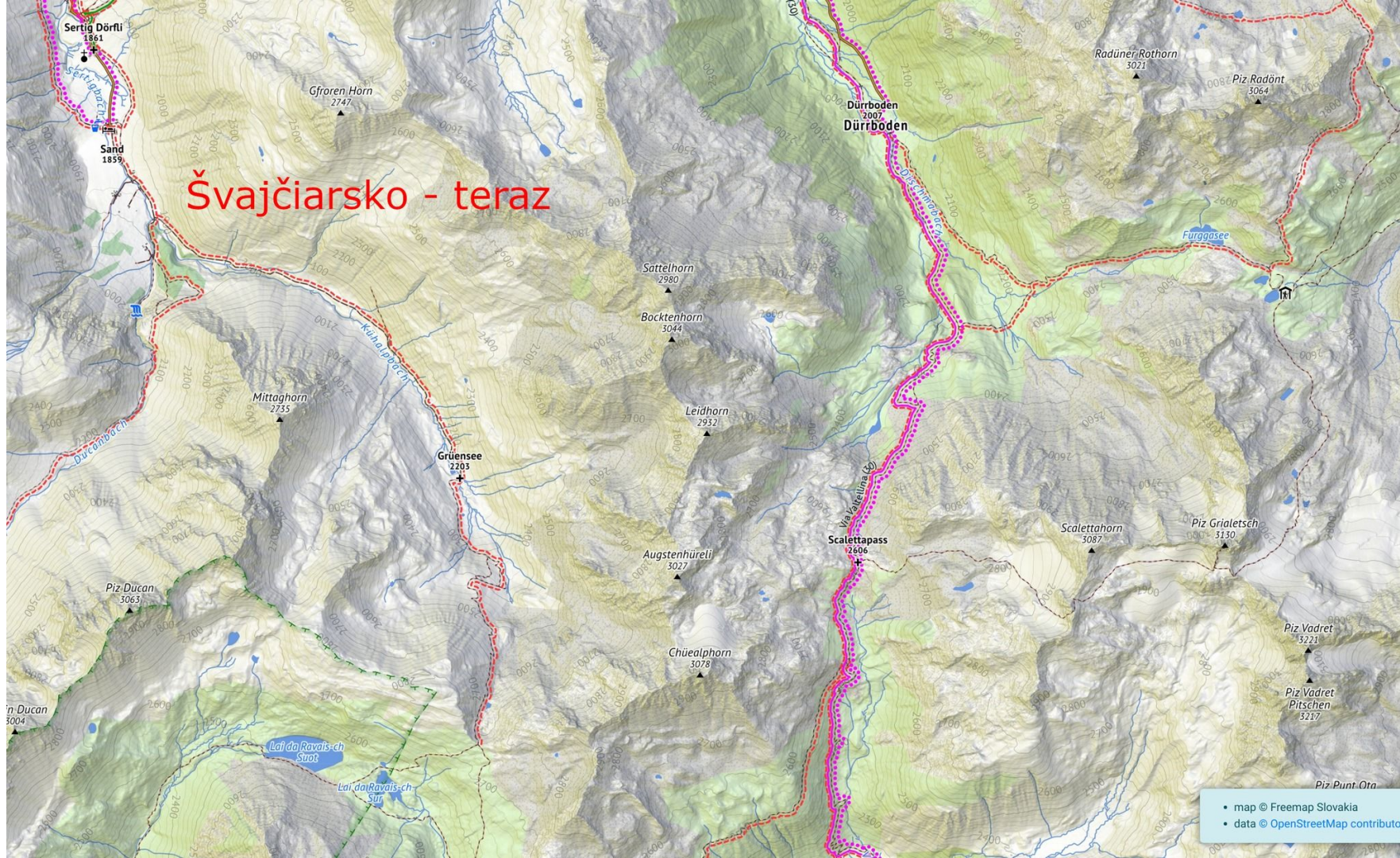
Švajčiarsko - teraz



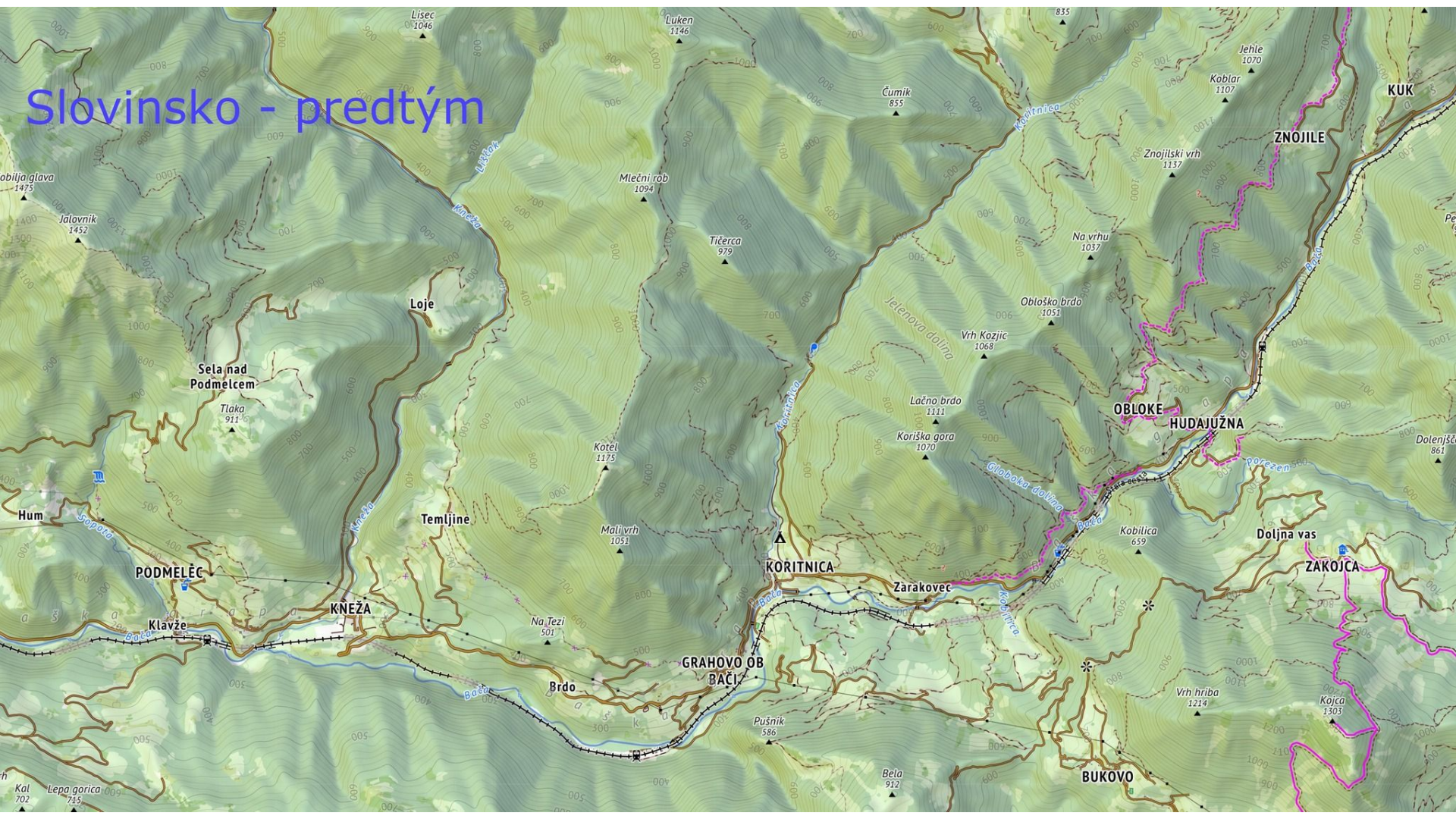
Švajčiarsko - predtým



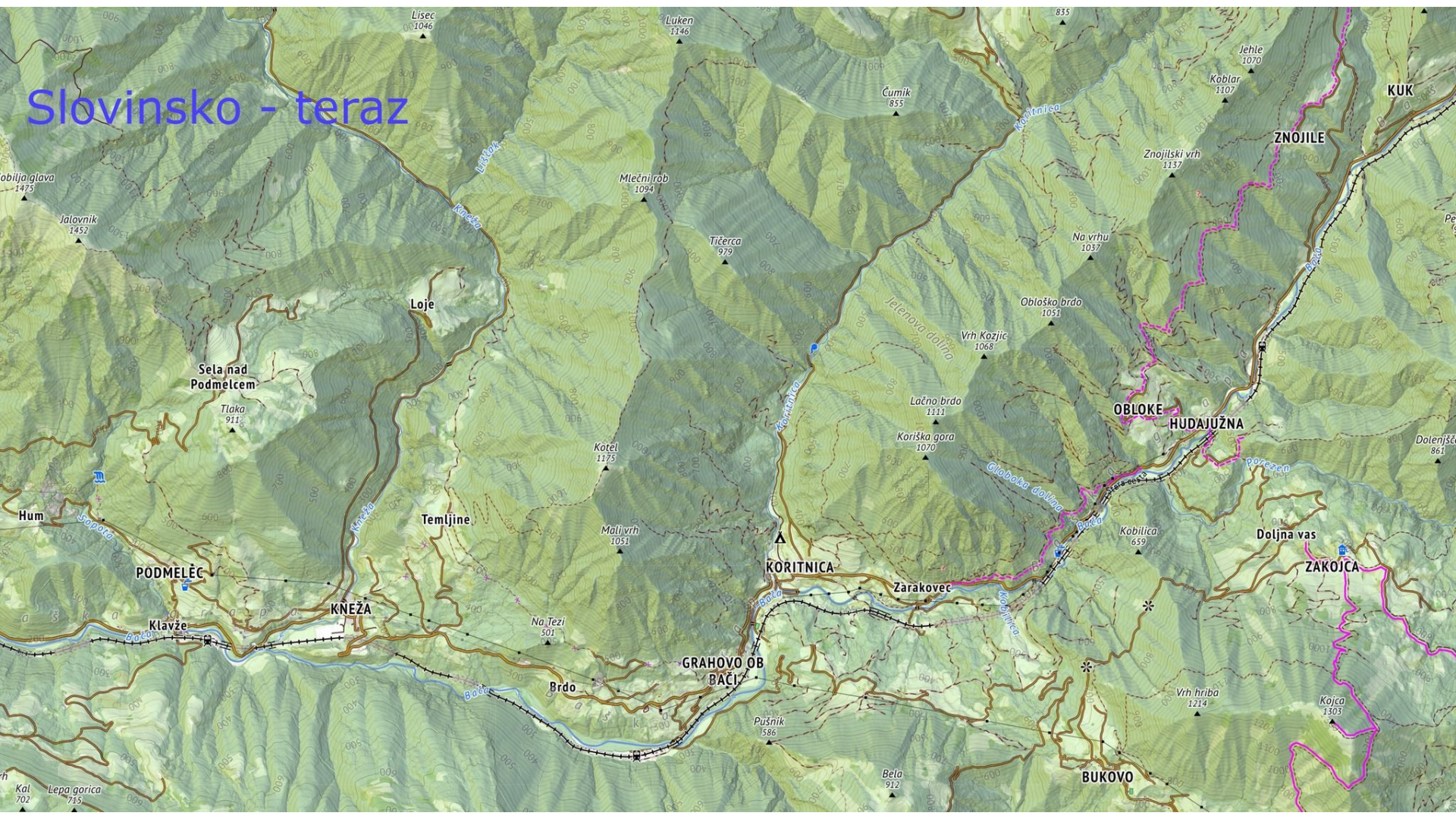
Švajčiarsko - teraz



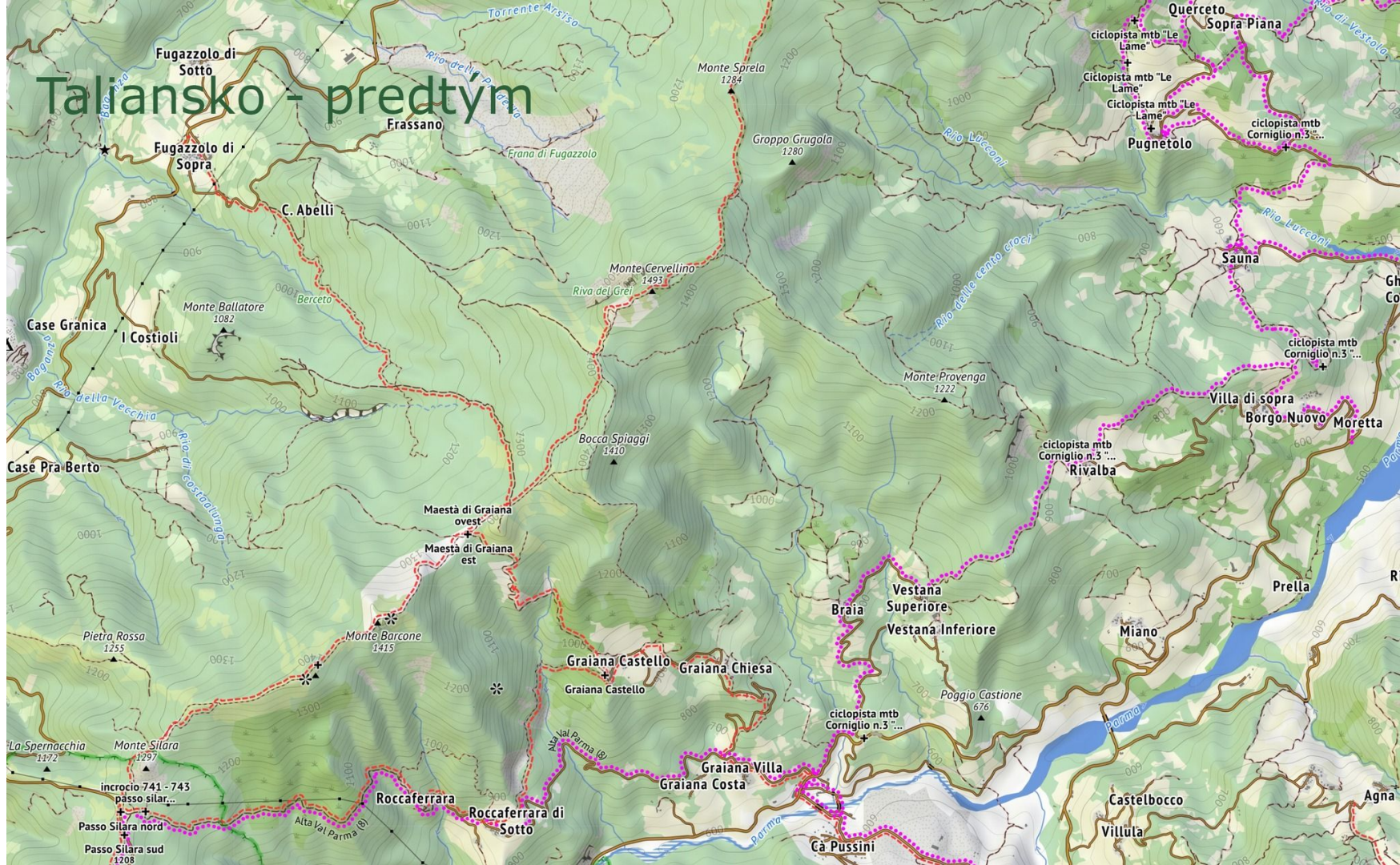
Slovinsko - predtým



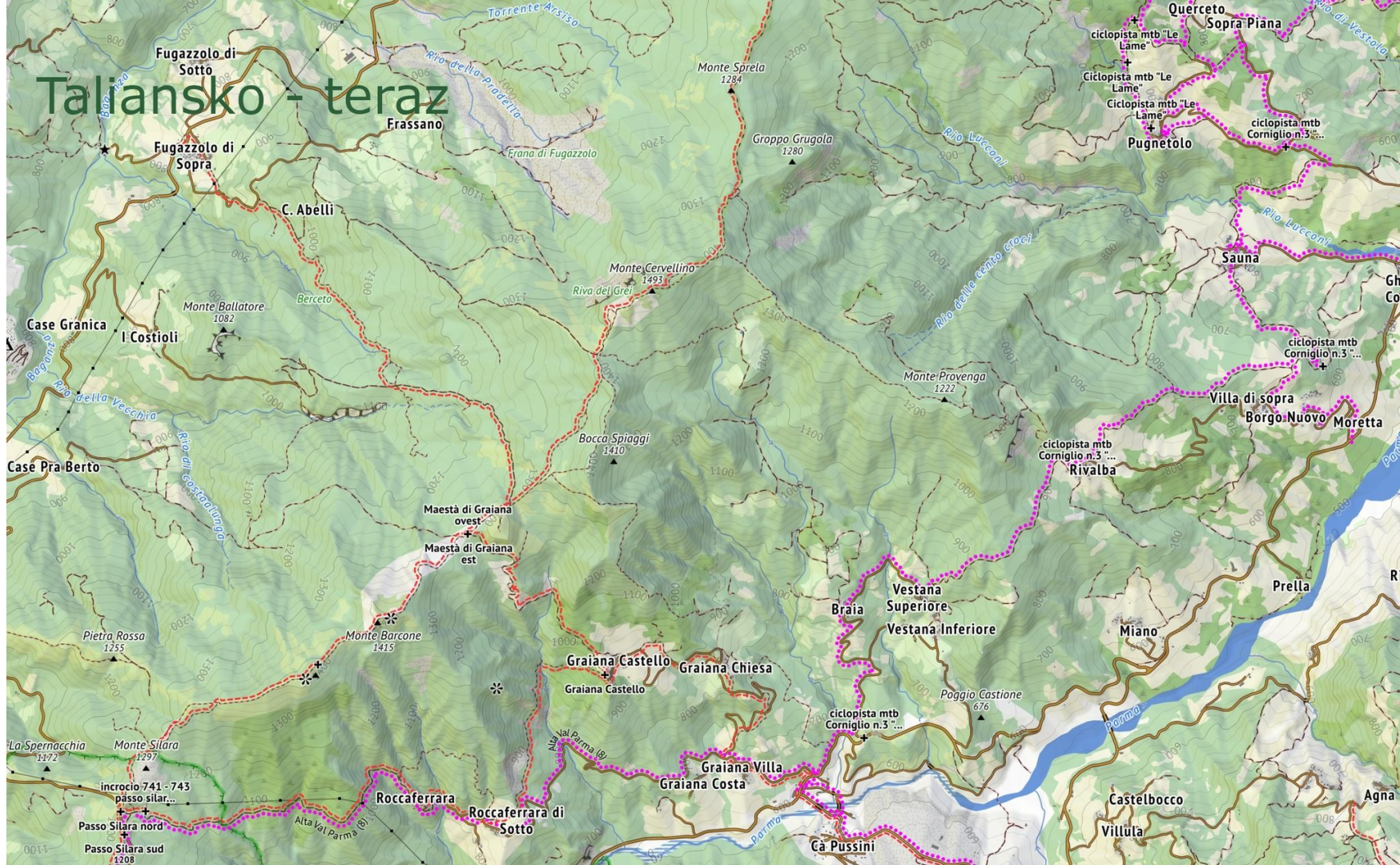
Slovensko - teraz



Taliansko - predtym



Taliansko - teraz



DTM vs DSM



DTM vs DSM



Gold vs Gray Hillshading

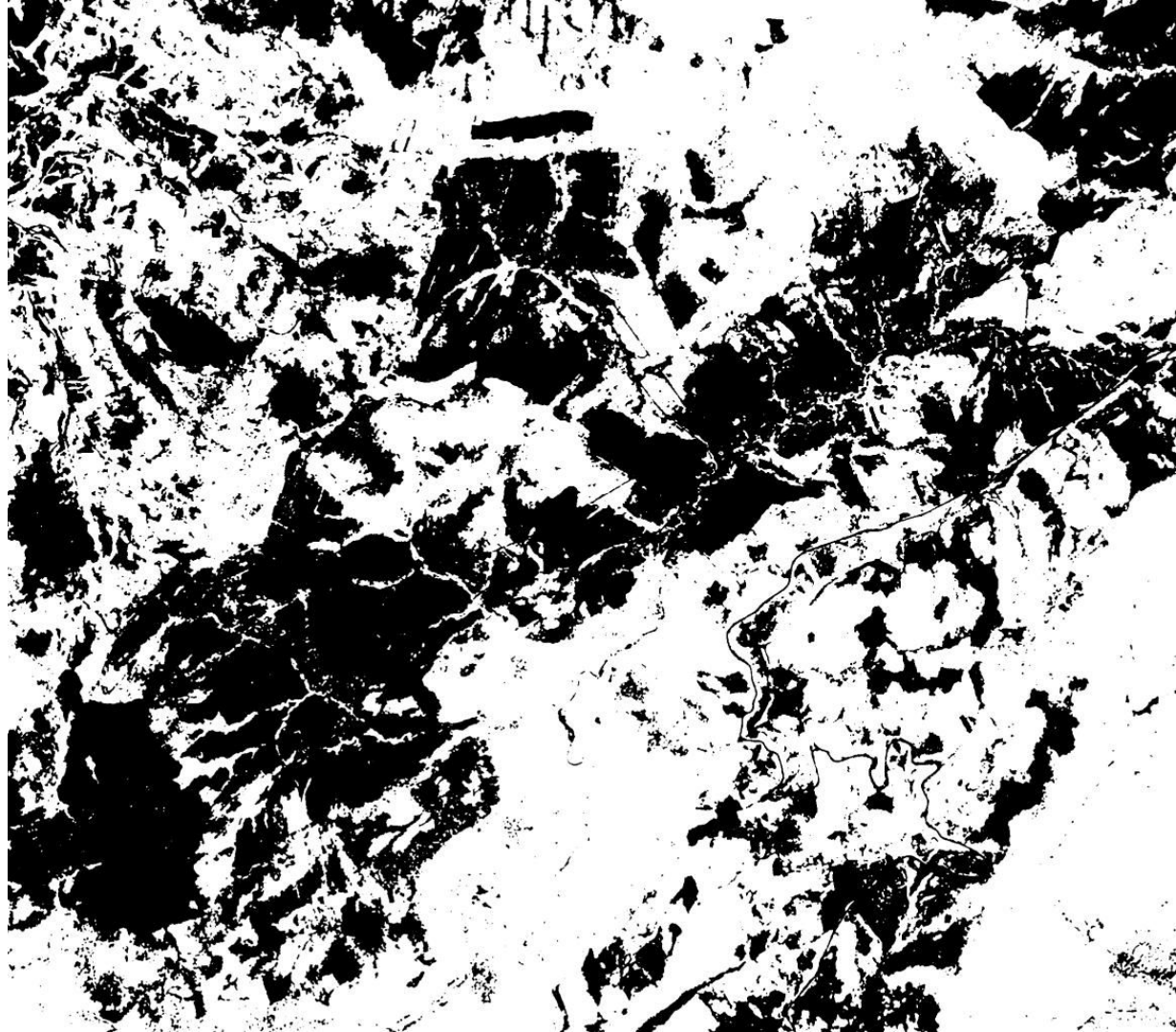


Forest tracing from LIDAR clouds



1. `whitebox_tools -r=FilterLidarClasses -v --wd=. -i=merged.las -o=filtered.las --exclude_cls='0,1,2,3,6,7,8,9,10,11,12,13,14,15,16,17,18'`
2. `whitebox_tools -r=LidarDigitalSurfaceModel -v --wd=. -i=filtered.las -o test.tif --returns=last --resolution=0.5 --max_triangle_edge_length=5`
3. `gdal_calc.py -A test.tif --outfile=binary.tif --overwrite --hideNoData --calc="1*(A > -100)"`
4. `whitebox_tools -r=MajorityFilter -v --wd=. -i=binary.tif -o=mf.tif --filter=19`
5. `gdal_polygonize.py mf.tif out.shp`
6. GRASS GIS: `v.generalize` (1st pass with `sliding_averaging`, 2nd with `douglas @ 0.5`)



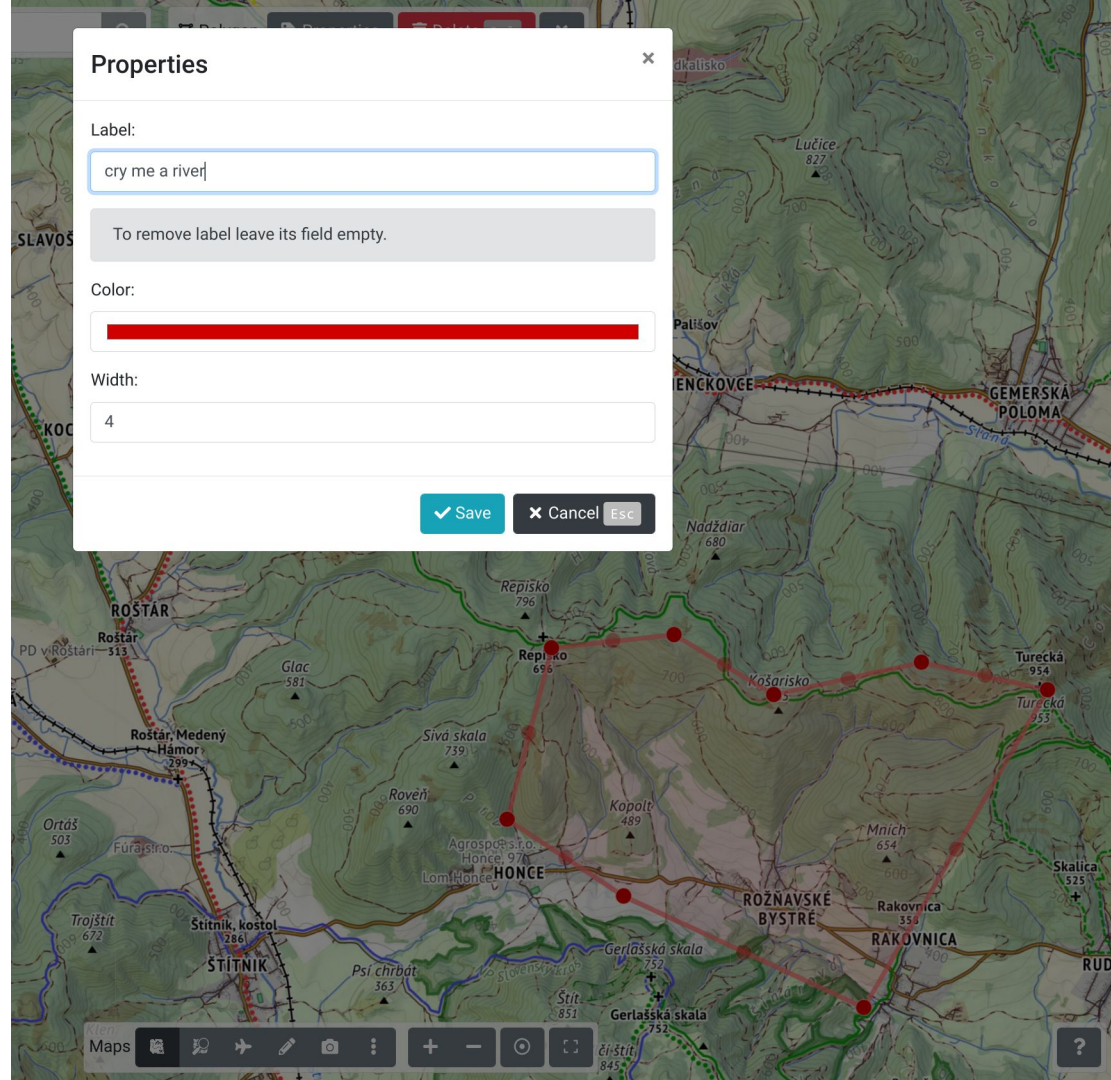


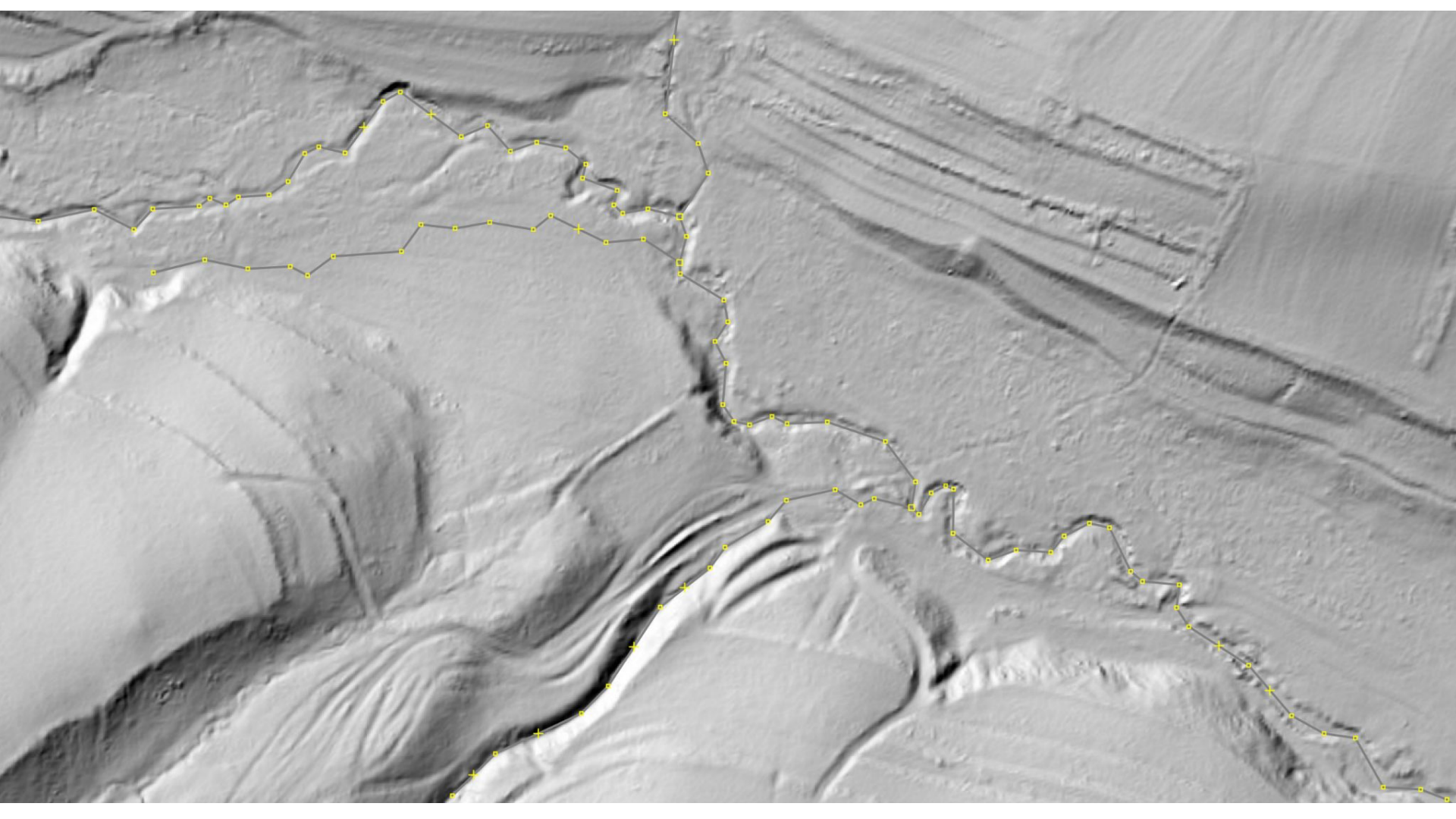


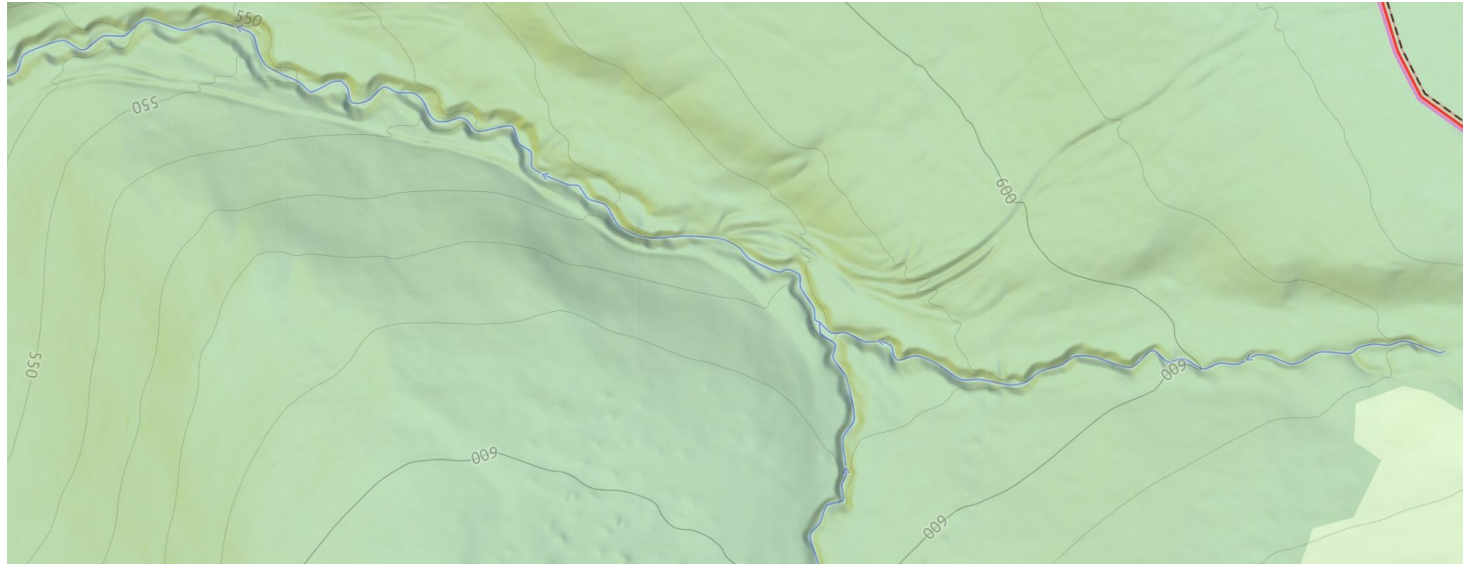
Cry me a river

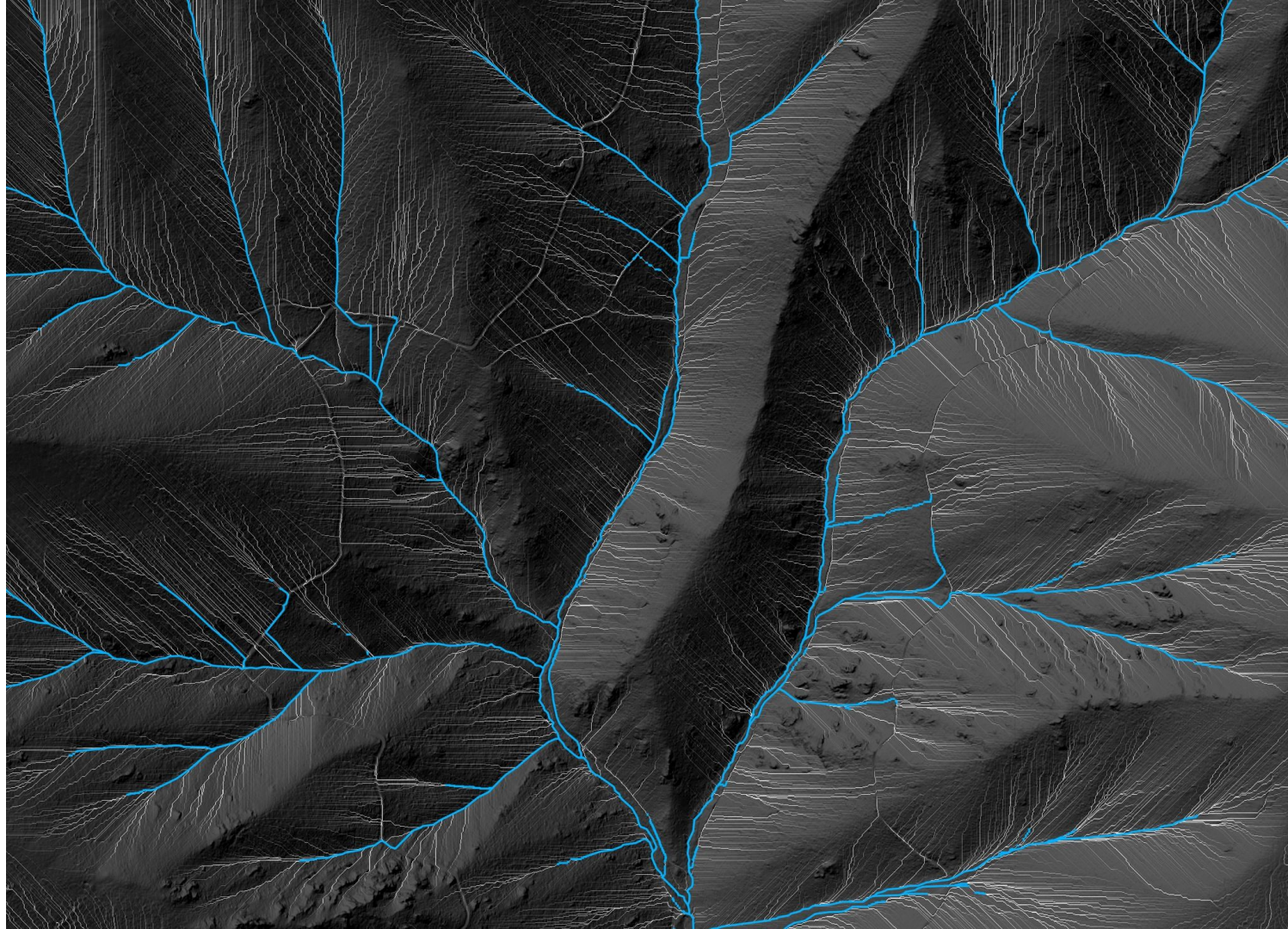
<https://github.com/FreemapSlovakia/streamfinder>

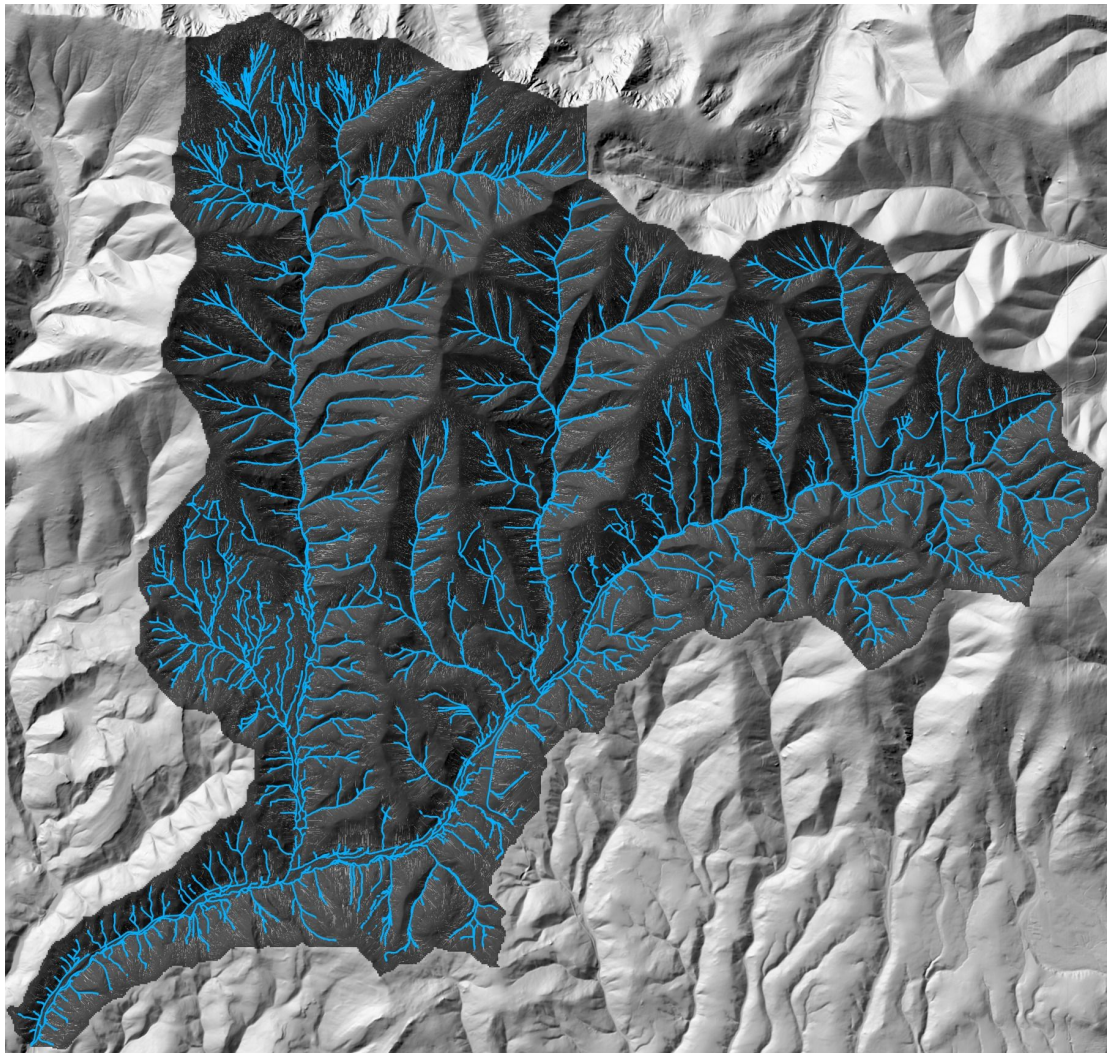
- wbt:FlowAccumulationFullWorkflow
- wbt:ExtractStreams
- wbt:RemoveShortStreams
- wbt:RasterStreamsToVector
- generalize - chaiken (GRASS)
- simplify
- export





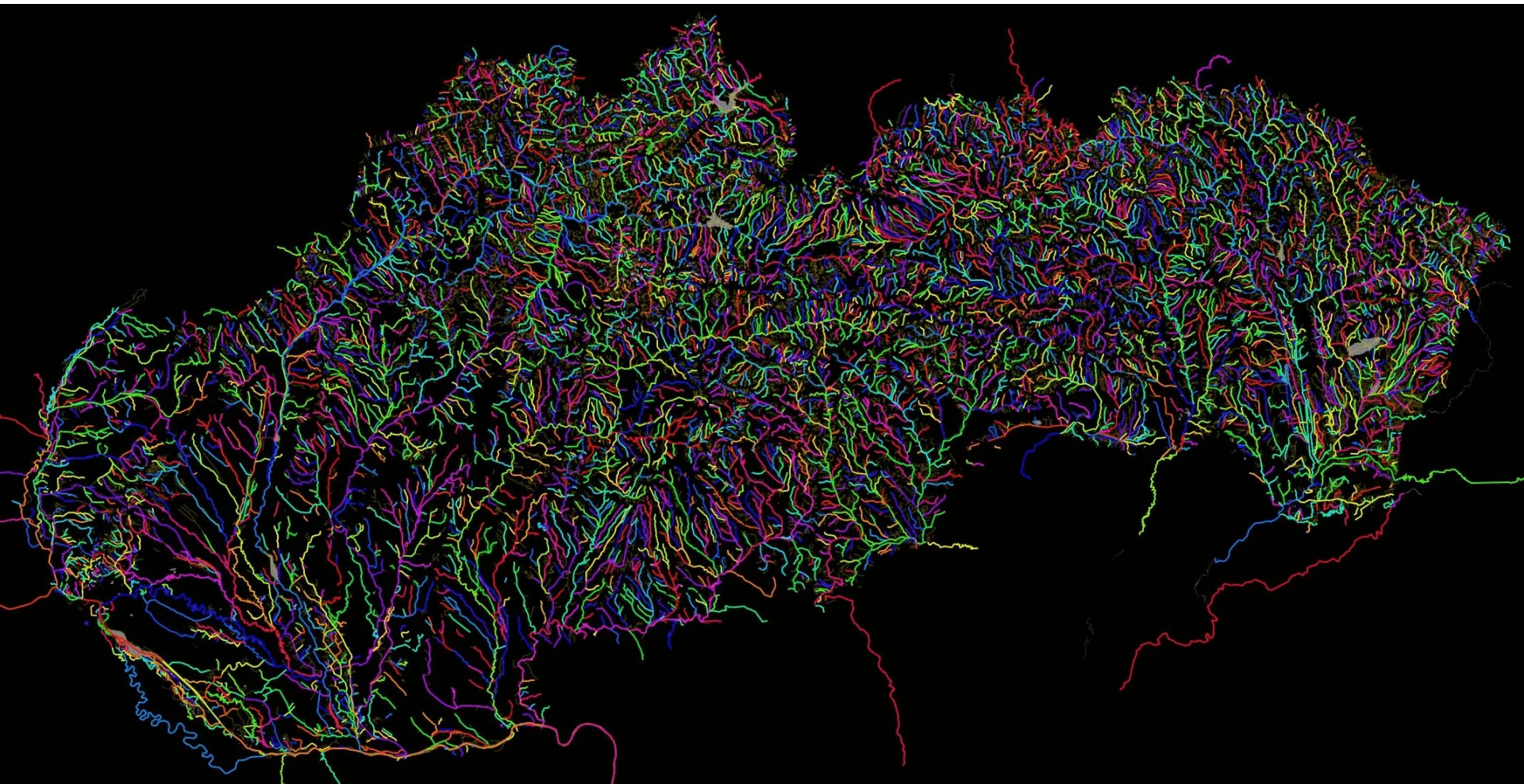


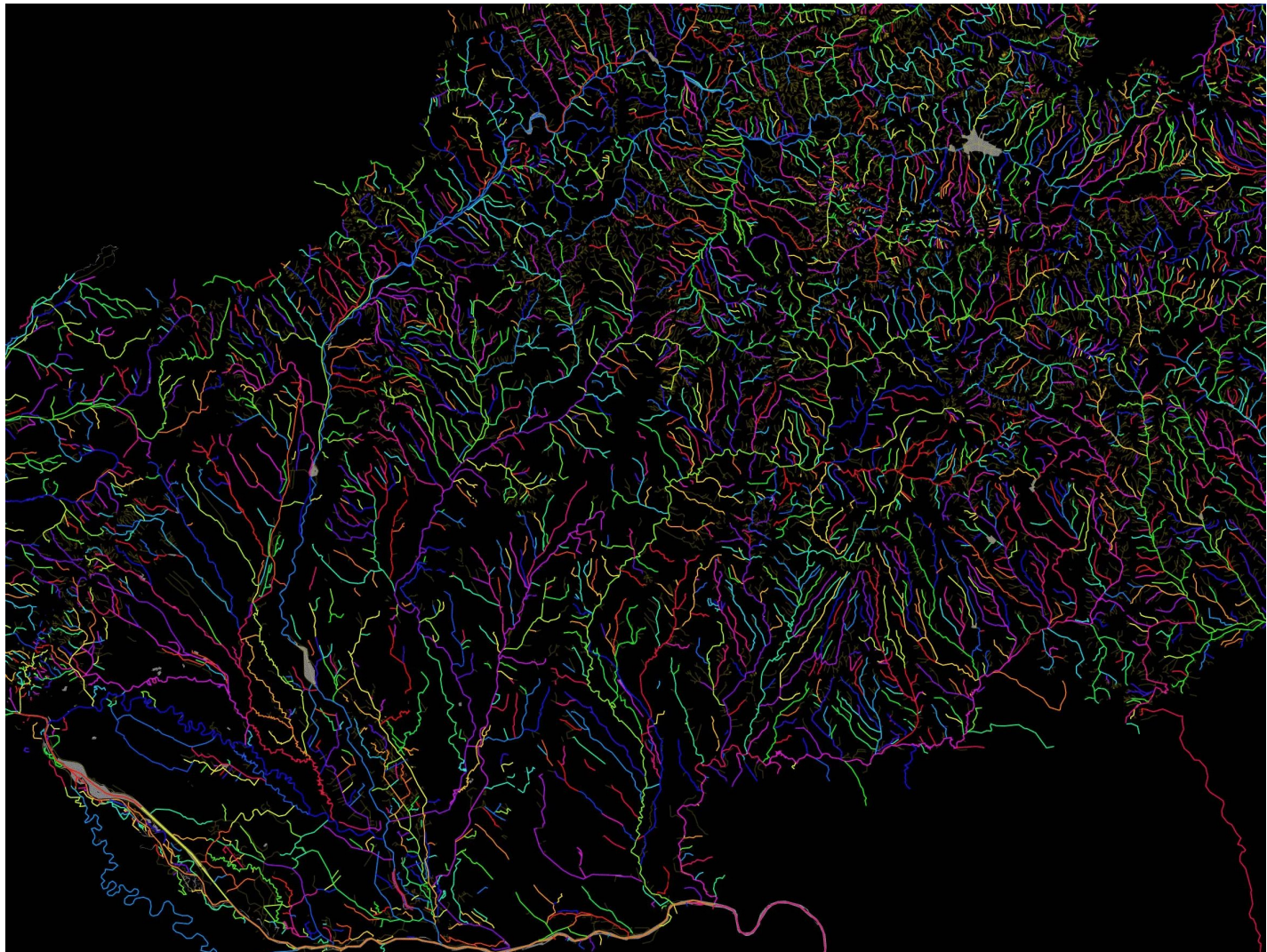




Waterway Cleanup

- OSM Inspector
- [split streams to relations](#) (JOSM scripting)
- [move tags to parent relations](#)
- added wikidata + wikipedia





Mapnik configuration with JsxNik

- [JsxNik](#)
- ~~[CartoCSS](#)~~
- ~~[JsNik](#)~~
- ~~[Mapnik XML](#)~~

```
import { serialize } from "jsxnik/serialize";
import { Datasource, Map, Parameter, Style, Rule, PolygonSymbolizer, Layer, StyleName } from "jsxnik/mapnikConfig";

const mapnikConfig = serialize(
  <Map backgroundColor="blue">
    <Datasource name="db">
      <Parameter name="type">sqlite</Parameter>
      <Parameter name="file">map.sqlite</Parameter>
    </Datasource>

    <Style name="some_style">
      <Rule>
        <PolygonSymbolizer fill="green" />
      </Rule>

      { /* this is a comment */ }

      { /* including markup as a string */ }
      <Raw>{`
        <Rule>
          <PolygonSymbolizer fill="green" />
        </Rule>
      `}</Raw>
    </Style>

    <Layer srs="+init=epsg:3857">
      <StyleName>some_style</StyleName>

      <Datasource base="db">
        <Parameter name="table">
          some_table
        </Parameter>
      </Datasource>
    </Layer>
  </Map>
);
```

Vector Maps

- [maplibre-gl-leaflet](#)
- OpenMapTiles
- by MapTiler
- <https://www.freemap.sk/#map=9/48.737173/19.441681&layers=VO>
- <https://www.freemap.sk/#map=9/48.737173/19.441681&layers=VS>

Freemap maps for Locus

Maps for GPS Devices

💡 Tips | ↗ Exporty máp

Freemap Slovakia vytvára pravidelné exporty mapy pre rôzne mobilné aplikácie/zariadenia. Tu si ich môžete stiahnuť. Ak tu nie je uvedený postup inštalácie mapy pre Vašu aplikáciu/zariadenie, je potrebné ho hľadať na webovej stránke Vami používanej aplikácie/zariadenia.

Mapové dáta © OpenStreetMap prispievatelia. Licencované pod ODbL 1.0.

Mobilné aplikácie (Android / iOS)

Priame stiahnutie mapy Slovenska a Freemap štýlu pre program niektoré programy:

Upozornenie: odkazy sú funkčné len cez prehliadač v mobilnom telefóne s nainštalovanou aplikáciou

Locus Map



- [štýl pre mapu V5](#)
- [mapa Slovensko V5](#)
- [mapa Česká republika V5](#)
- [mapa Polsko - juh V5](#)
- [mapa Rakúsko - sever V5](#)
- [mapa Rakúsko - juh V5](#)
- [POI Slovensko](#)
- [POI Česká republika](#)

Staršia verzia (mapa aktualizovaná, štýl už nie)

- [štýl pre mapu V3](#)
- [mapa Slovenska V3](#)

Dodatočné mapy pre Locus

- [Ortofotomozaika SR, DMR5 hillshading, Lesné cesty NLC \(online\) a Strava Heatmap](#)
- [Lesné cesty NLC \(offline\)](#)

OruxMaps

- [štýl pre mapu V5](#)

18:13

Maps

ONLINE OFFLINE

Base maps

- LoMaps online
Hiking, Bike
- Satellite **GOLD**
Aerial/Satellite

Partner maps

- OSM - Outdoor
World, Europe
- OSM - Other
World

Add online maps

18:13

Stamen

Free

Stamen Toner
Stamen
Free

Ortofotomozaika SR
Freemap Slovakia
Free

Freemap Outdoor
Freemap Slovakia
Free

Base map of the ČR
ČÚZK
Free

Satellite map - ČR
ČÚZK
Free

basemap.at - Standard
basemap.at

18:14

Freemap Outdoor

Freemap Slovakia

Free

ADD

Hike Online

VERSION 1

MAP Coverage

ELEVATION DATA Download for offline use:

Detailed hiking map displaying marked trails, shelters, huts as well as many topographic items and other terrain details

[Freemap Slovakia](#) "Data © [OpenStreetMap contributors](#) [Terms](#)"

18:15

Maps

ONLINE OFFLINE

Base maps

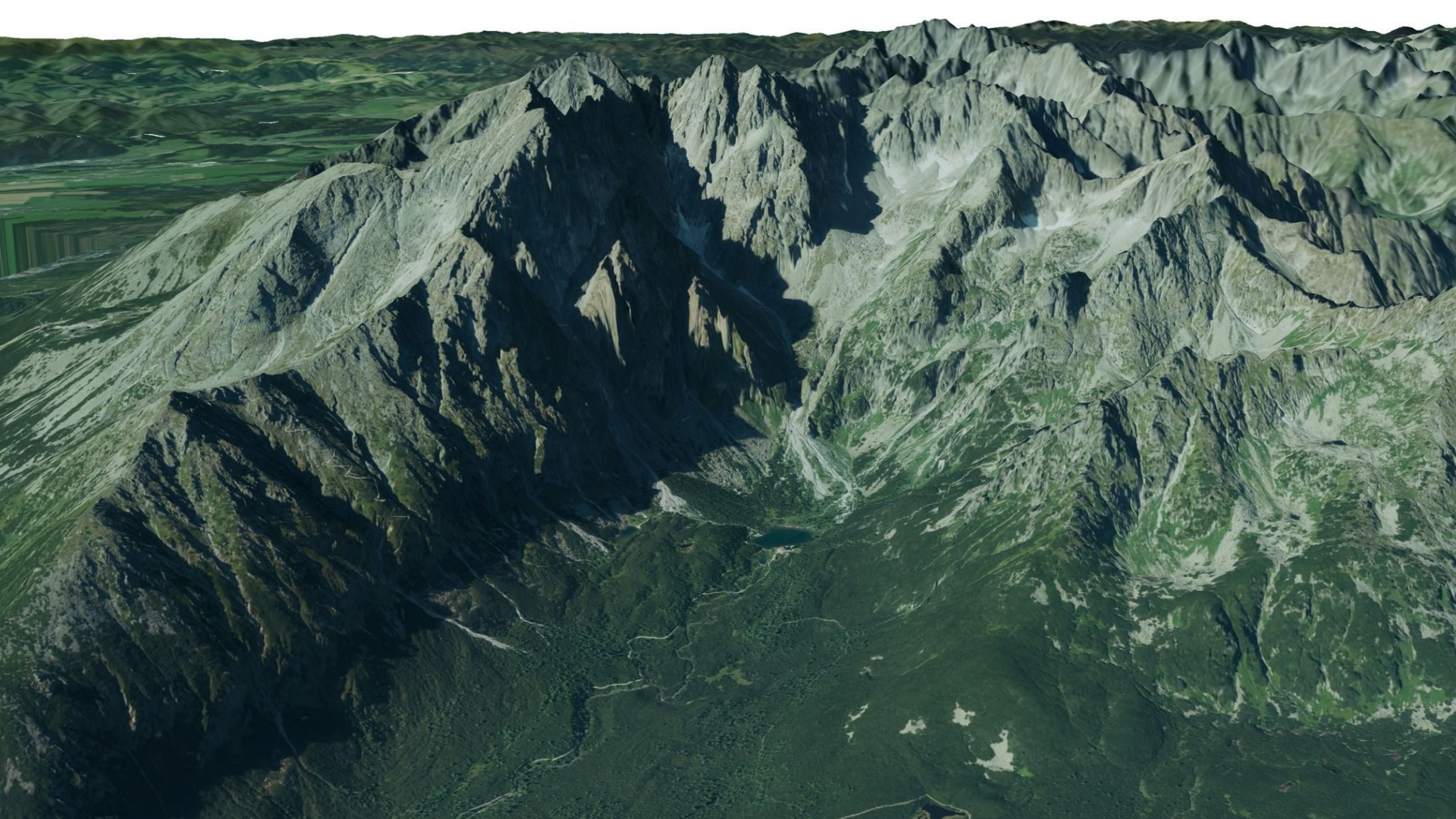
- LoMaps online
Hiking, Bike
- Satellite **GOLD**
Aerial/Satellite

Partner maps

- OSM - Outdoor
World, Europe
- OSM - Other
World
- Freemap
Czech Republic, Slovakia, Hungary, Austria
- Outdoor
Hiking, Bike, Road, Winter/ski
- Ortofotomozaika SR
Aerial/Satellite

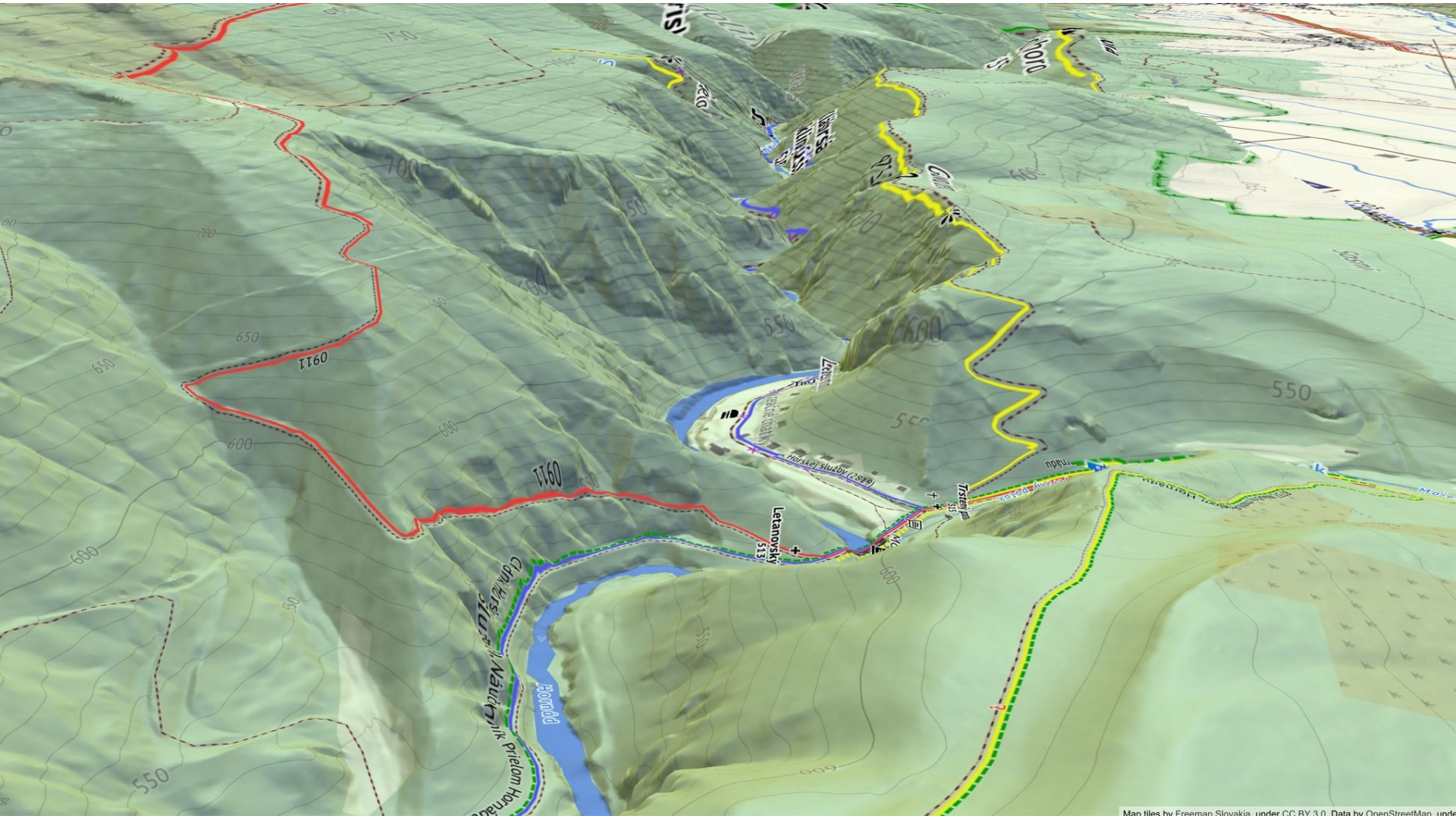
3D Maps Preview

- [MapLibre GL JS](#) rocks!
- [Demo 1](#)
- [Demo 2](#)











Outdoor map improvements

country names



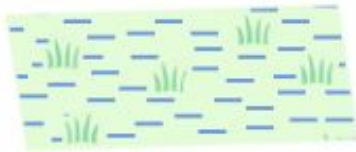
wetlands



mokrad'



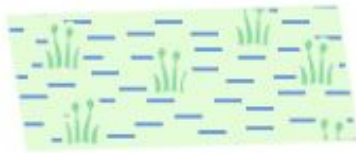
rašelinisko



močiar, slatinisko, mokrá lúka



bahnisko

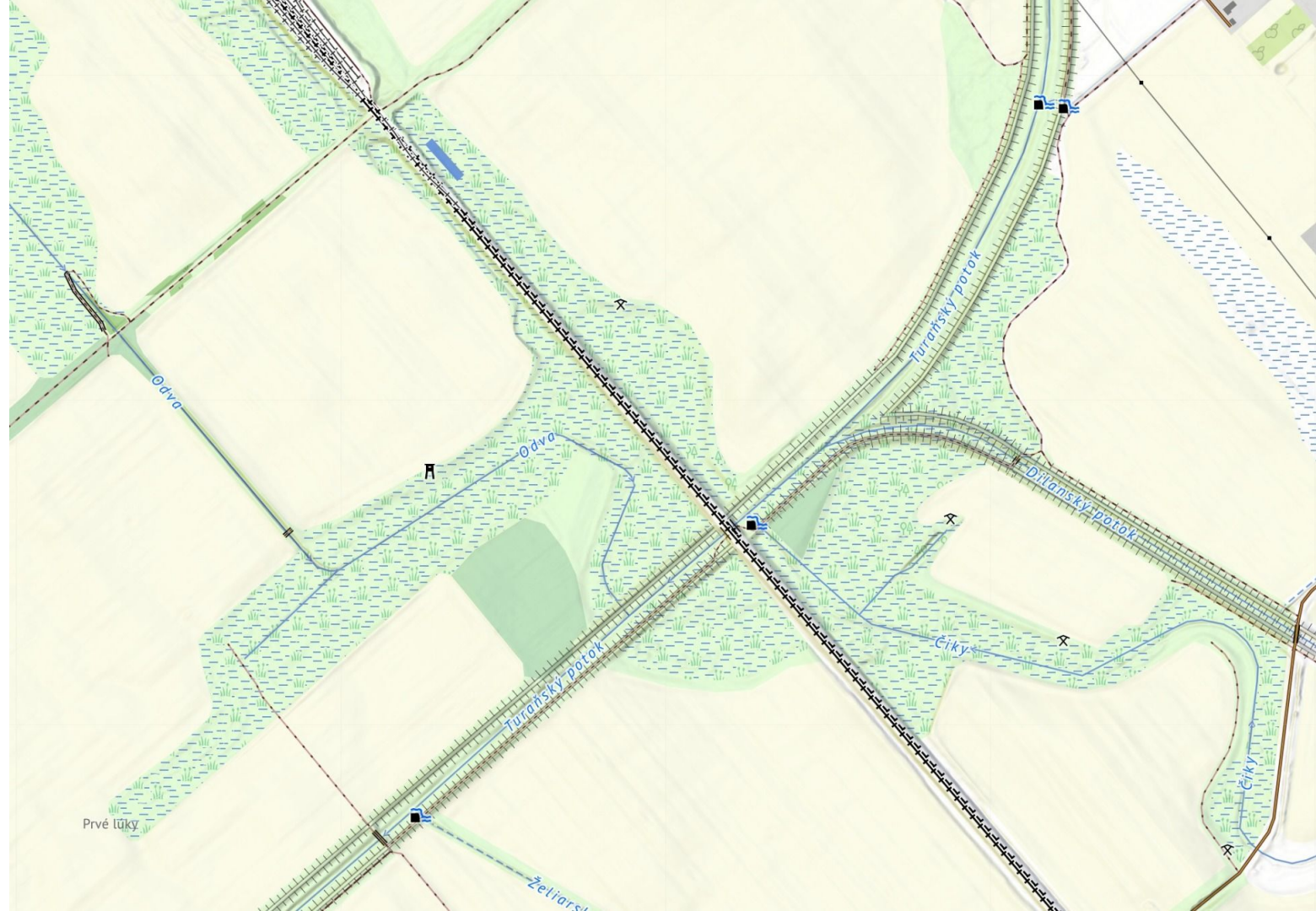


rákosie

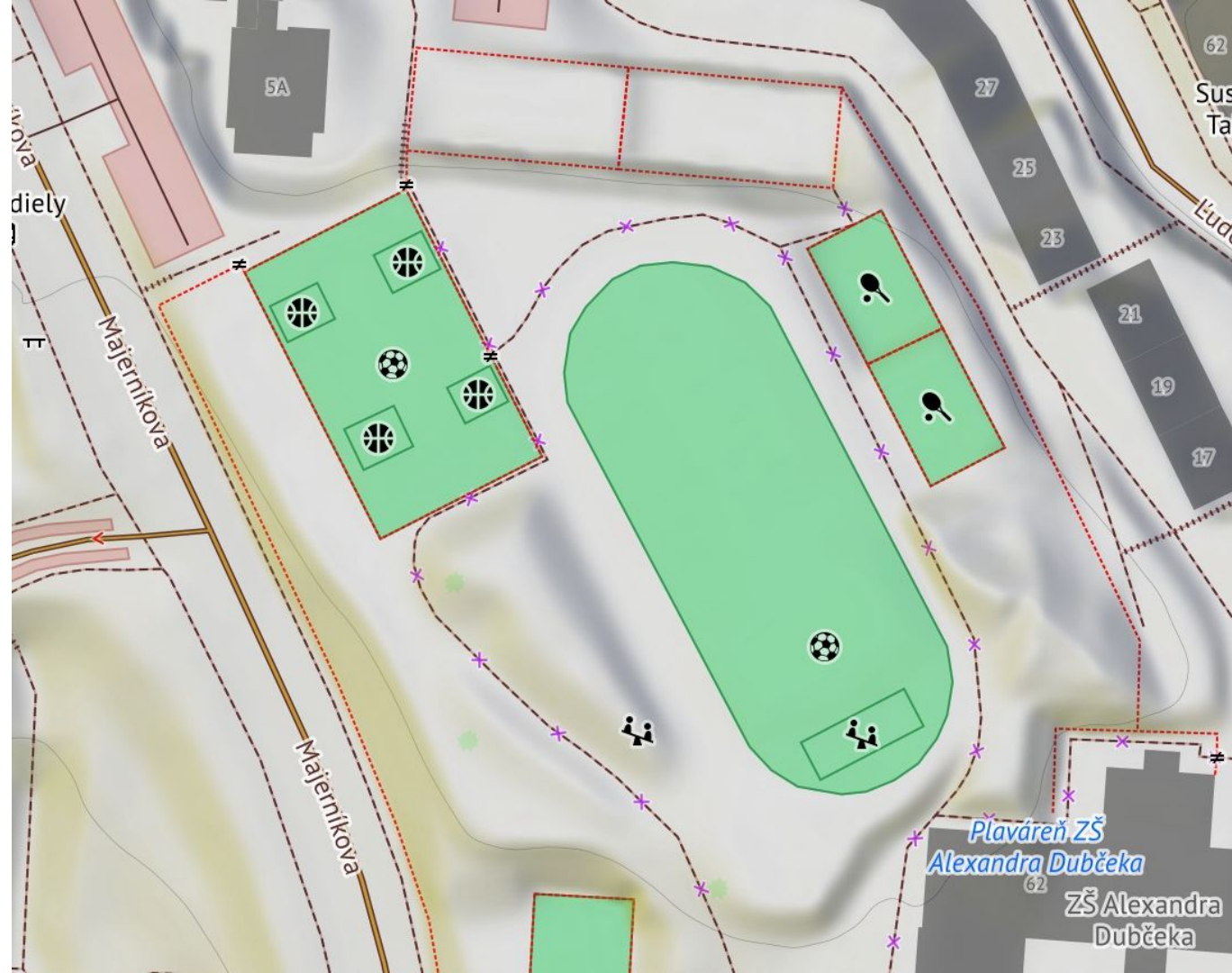


mangrovy

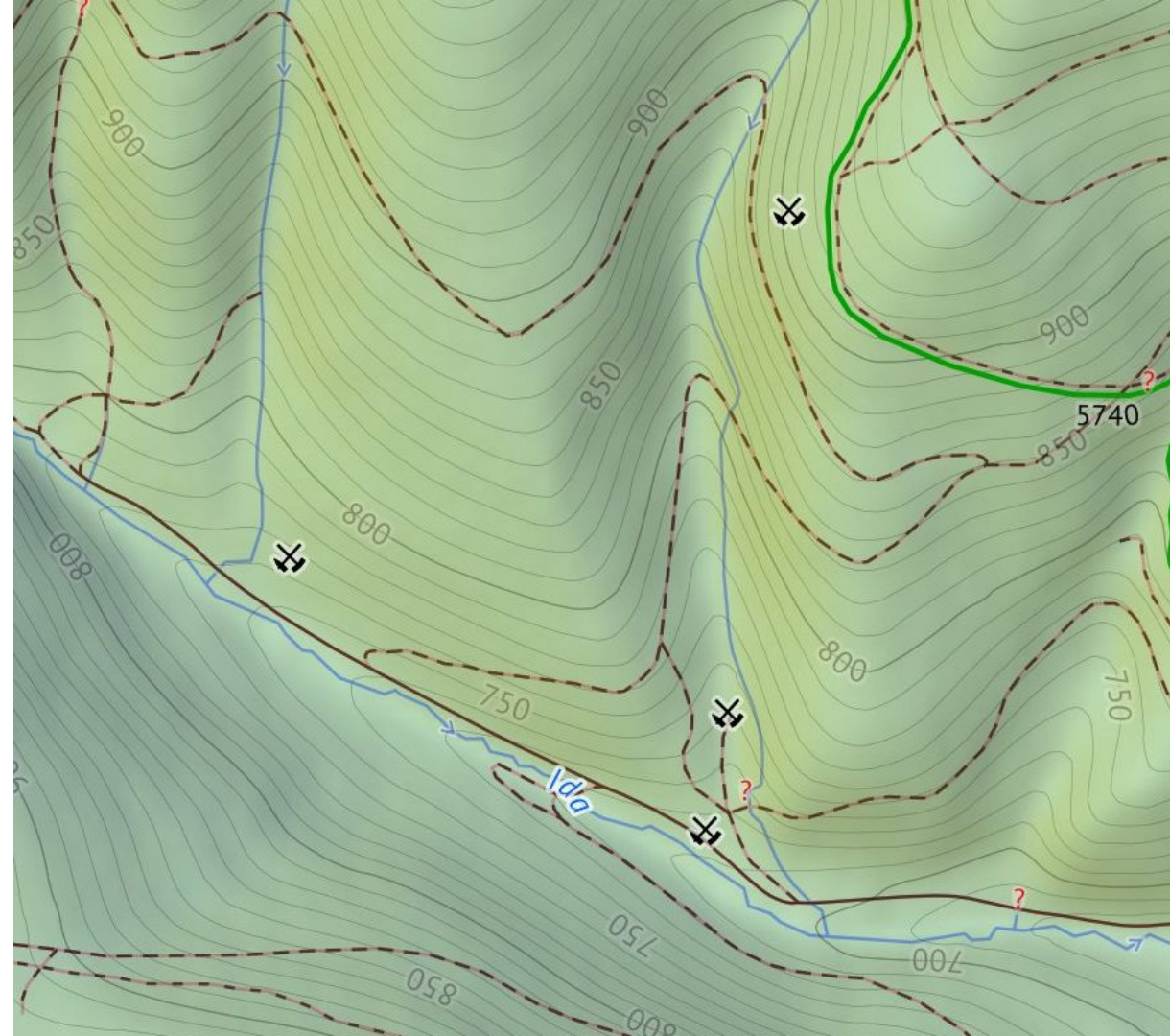
wetlands



pitch sport



disused adits / mineshafts



outdoor seatings



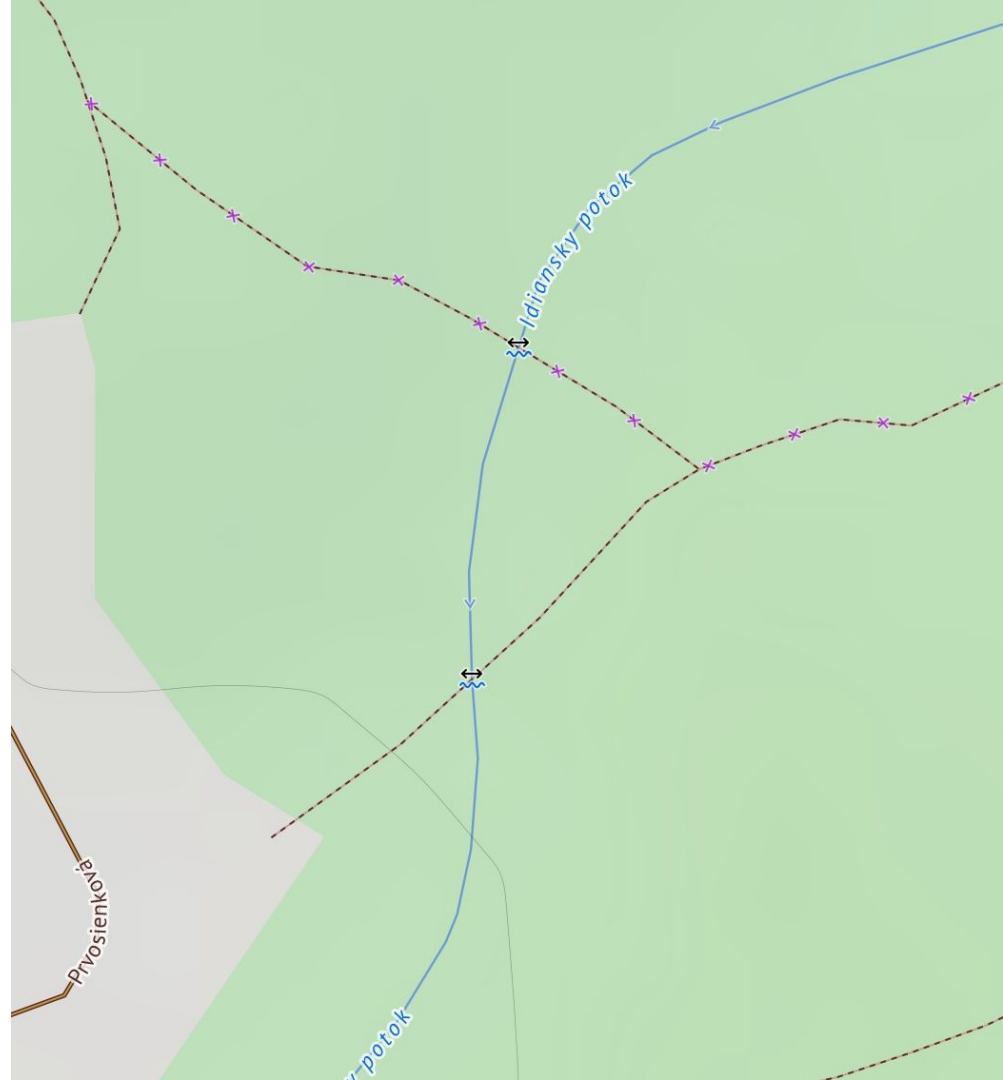
dams



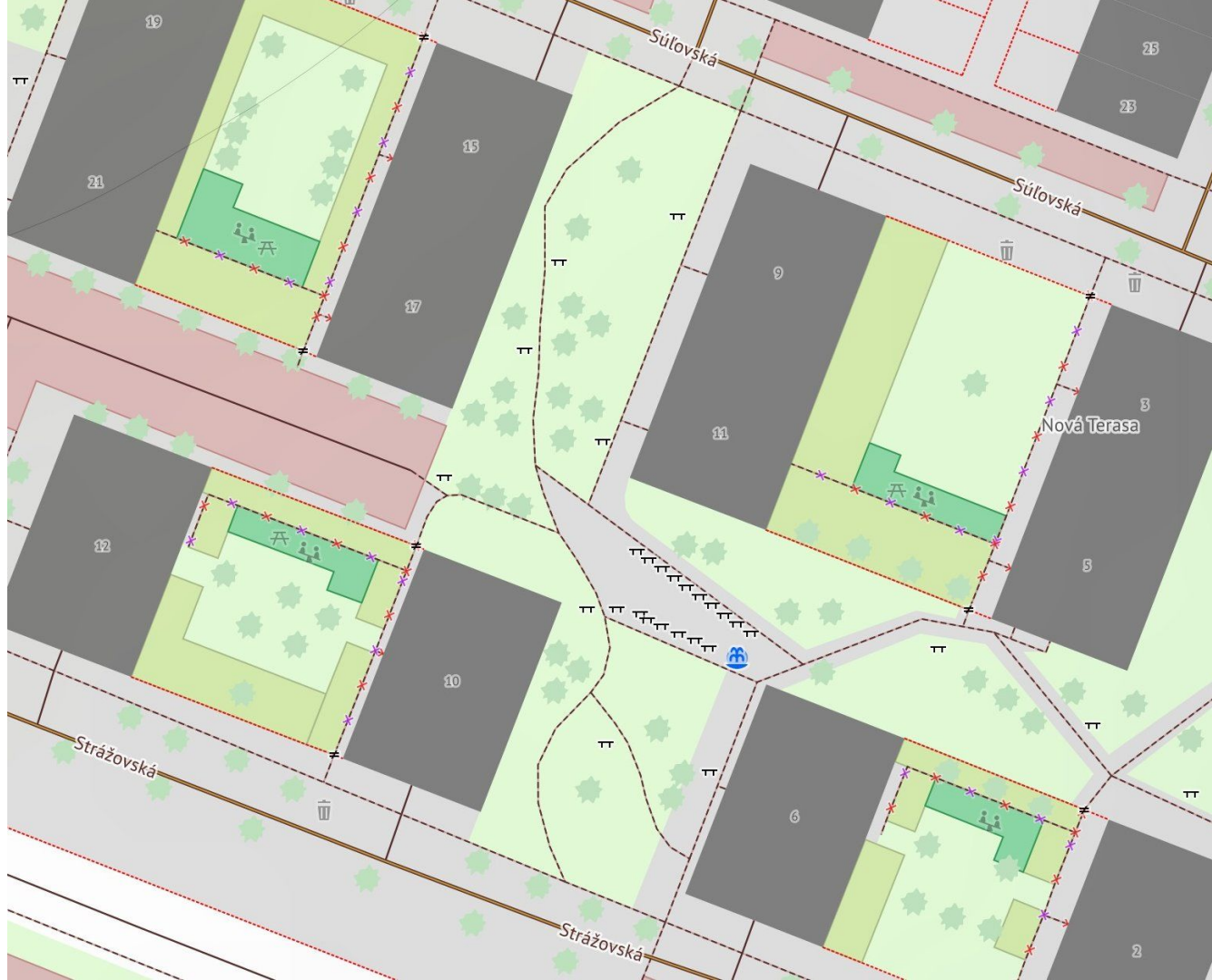
weirs



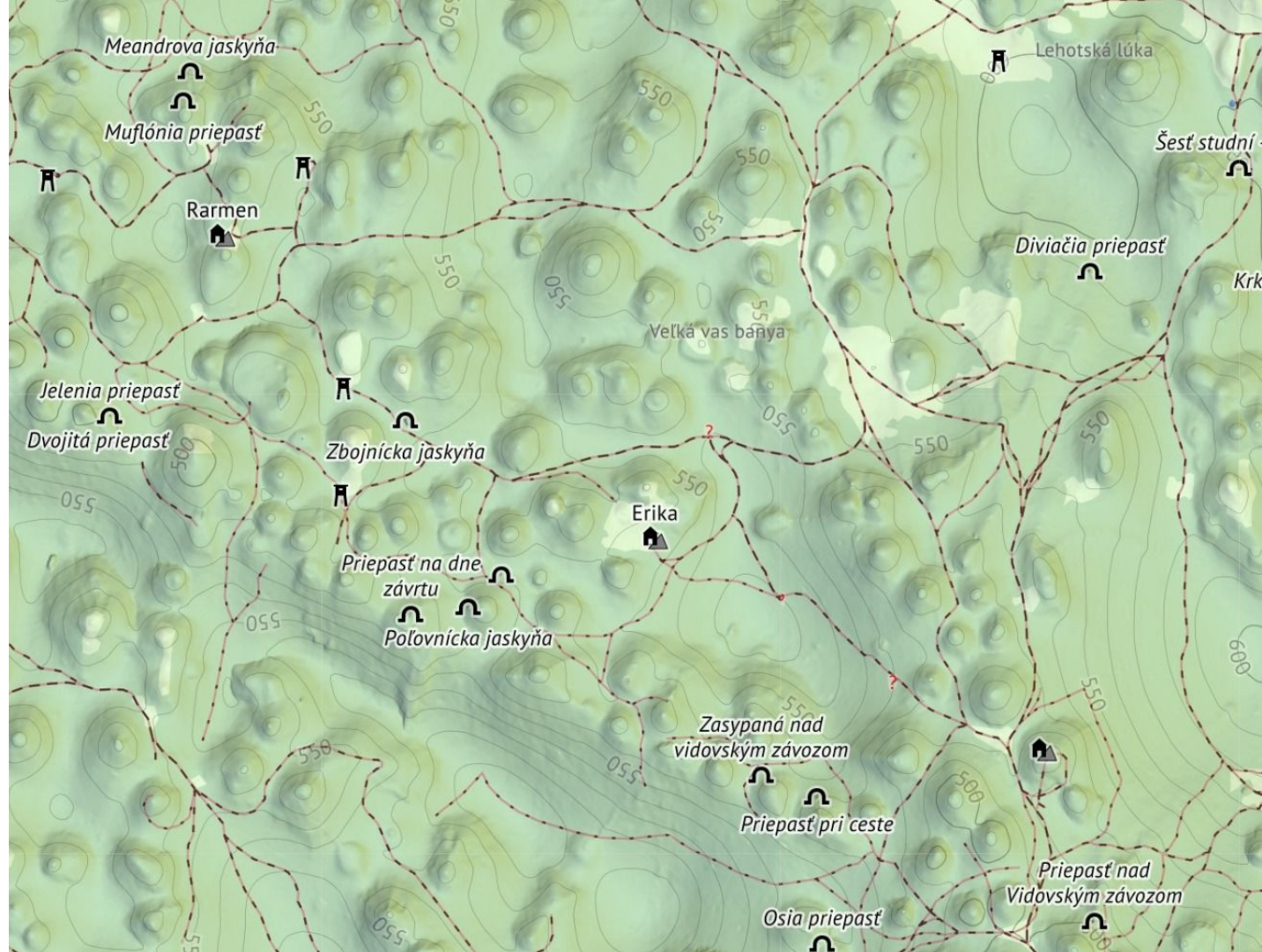
fords



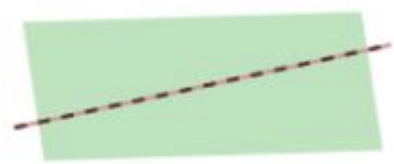
private features



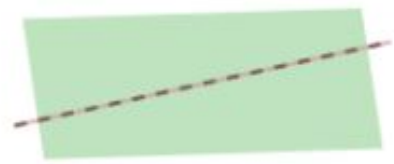
more labels



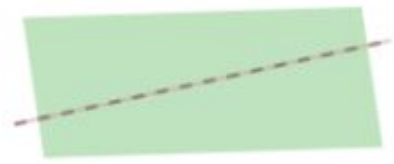
trail
visibility



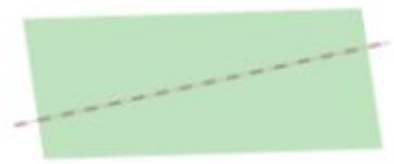
excellent or unspecified trail visibility



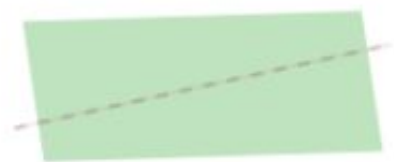
good trail visibility



trail is mostly visible



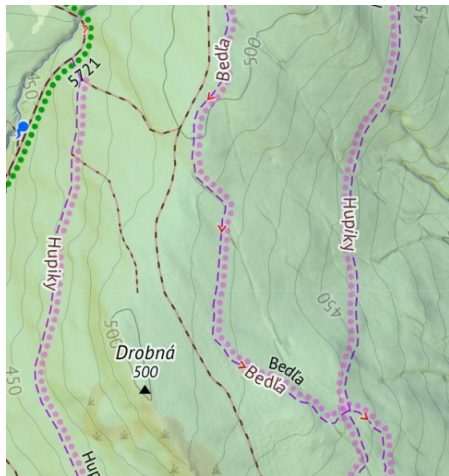
trail is sometimes visible and sometimes not



trail is mostly not visible



trail is not visible at all



škôlka



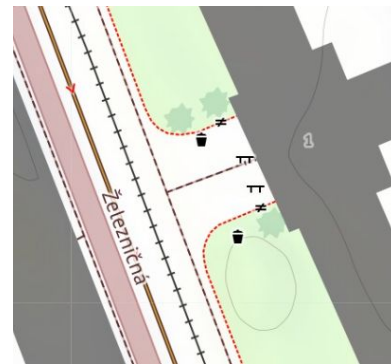
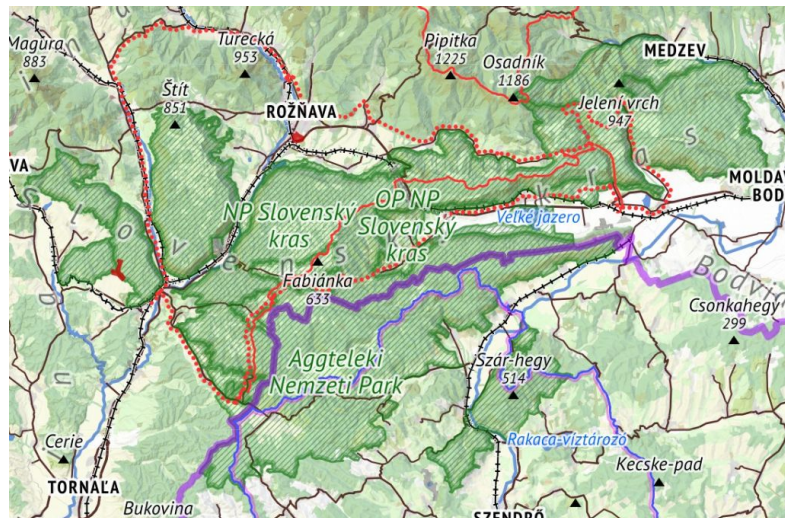
škola



vysoká škola, gymnázium



univerzita



Other outdoor map improvements

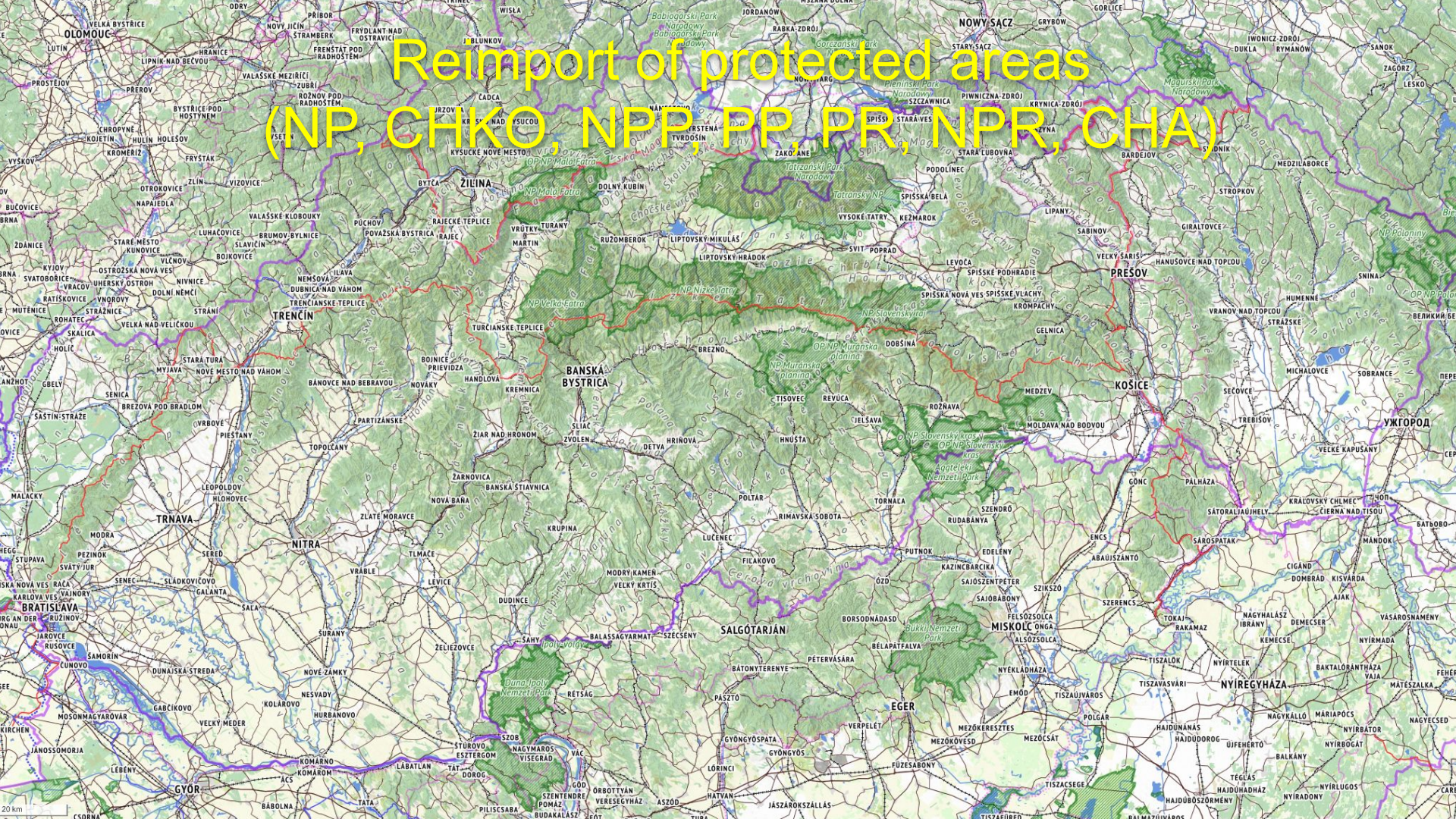
- nasadenie skrakovania názvov a odstraňovania niektorých všeobecných podstatných mien z názvov. Zatiaľ len pre slovenčinu.
- leisure=track
- improved rendering of place names (margin, placement)
- guideposts až od z13
- power pole až od z15, prečistenie power poles/lines/towers+aerials+pylons
- tracky grade2+ až od z13, ak nie sú v relácii
- pridanie renderovania názvov minoritných miest (plot, isolated_dwelling, square, farm, city_block, quarter, neighbourhood, allotments, borough)
- renderovanie "storage tankov" a síl - rovnakým štýlom ako bunker_silo
- odlíšenie miesta na piknik od piknikového stola
- pridané "monumentálne stromy", odlíšené od chránených
- protected_class=2 ako národný park
- optimalizácia pozície názvov dolín
- rozlíšené komunikácie zdieľané chodcami aj cyklistami
- odlíšené cestičky určené výlučne pre cyklistov (napr. singletraily)
- zjednodušenie tvaru vrstevníc pri nižších priblíženiach mapy
- zjednodušenie tvaru vodných tokov pri nižších priblíženiach mapy, vyhladenie čiar vodných tokov
- oprava prekryvu hlavných železničných ťahov
- oprava pozície názvov a smerových šípok vodných tokov
- zobrazenie značených trás na nižších zoomoch podľa tagu network: z9 - iwn a icn, z10 - z9 plus nwn a ncn, z11 - z10 plus rwn a rcn, z12 - všetko (od tohoto zoomu začínajú aj bežkárske a jazdecké trasy)
- značené trasy na z12 sa zobrazujú tenšie, ako to je a bolo na z11
- zlepšenie zobrazenia názvov vodných tokov a ulíc - v oboch prípadoch sa rovnomenné úseky spoja pred renderovaním, čo zabráni častým opakovaným názvom ak je cesta rozkuskovaná
- ďalšie mikrozmeny a vylepšenia

Other news

- Italian translation (thanks Diego!)
- server upgrade (Hetzner AX101)
- Freemap T-shirt



Reimport of protected areas (NP, CHKO, NPP, PP, PR, NPR, CHA)



Freemap Slovakia VZ



freemap.sk
digitálna mapa Slovenska

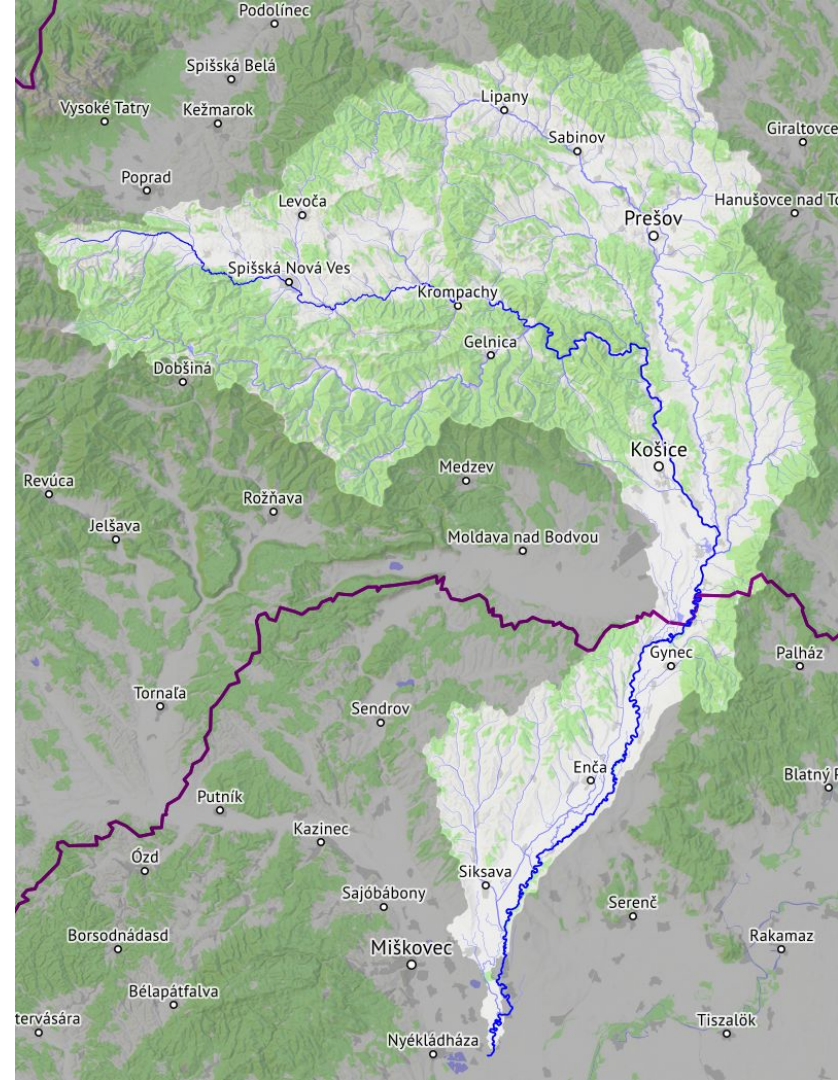


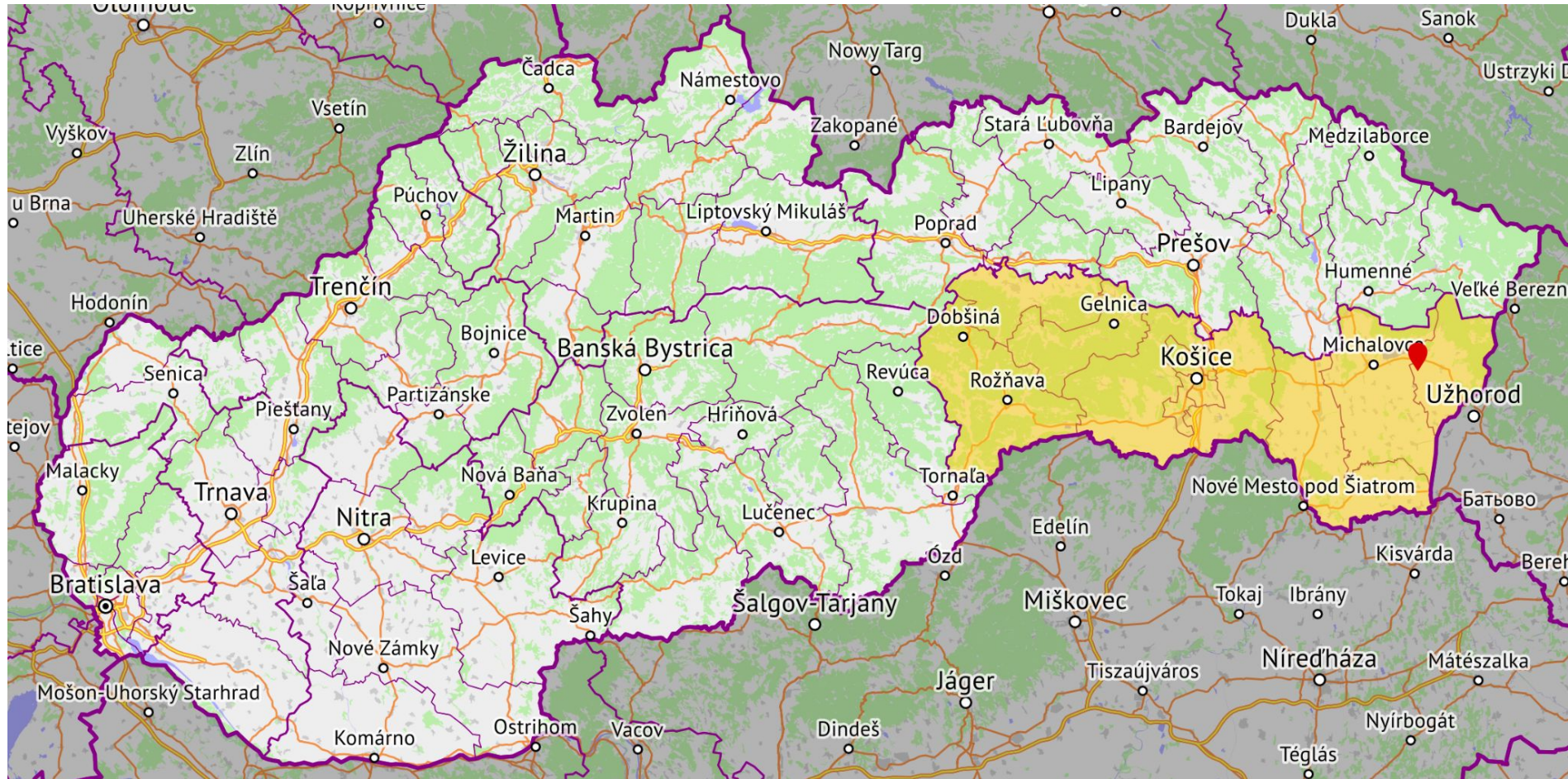
Свободная Wiki-карта мира El WikiMapaMundi libre 自由的 Wiki 世界地圖
O Wiki de Mapas Livres do Mundo Swobodna Wiki-Mapa Świata
Frjálsa wiki heimskortíð La carte coopérative libre

OpenStreetMap
Slobodná wiki mapa sveta
The Free Wiki World Map
Die freie Wiki-Weltkarte Il Wiki della mappa mondiale libera
Prost wikipi zemljevid sveta 免費维基世界地图 De vrije wiki-wereldkaart

MinimapCreator

<https://github.com/enu-sav/minimap-creator/>





This is the end