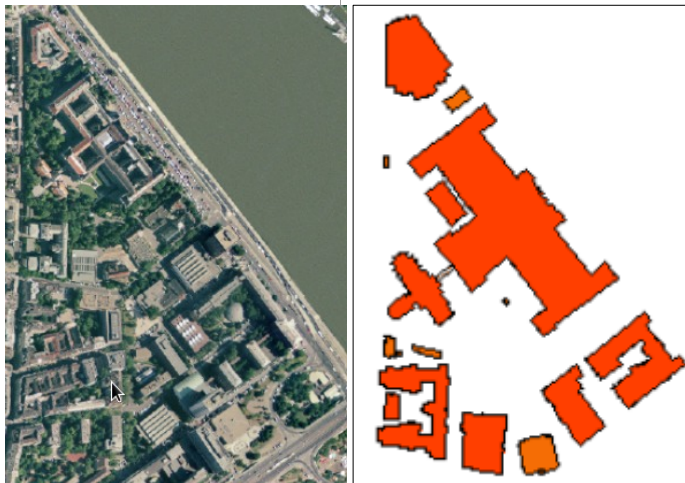
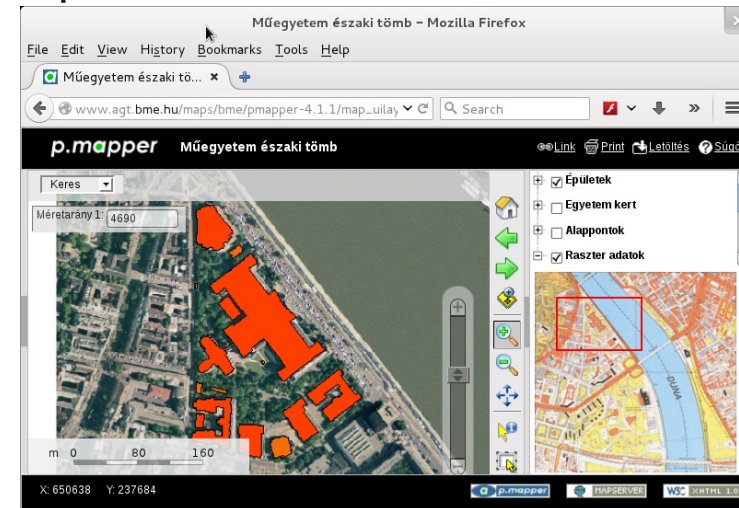
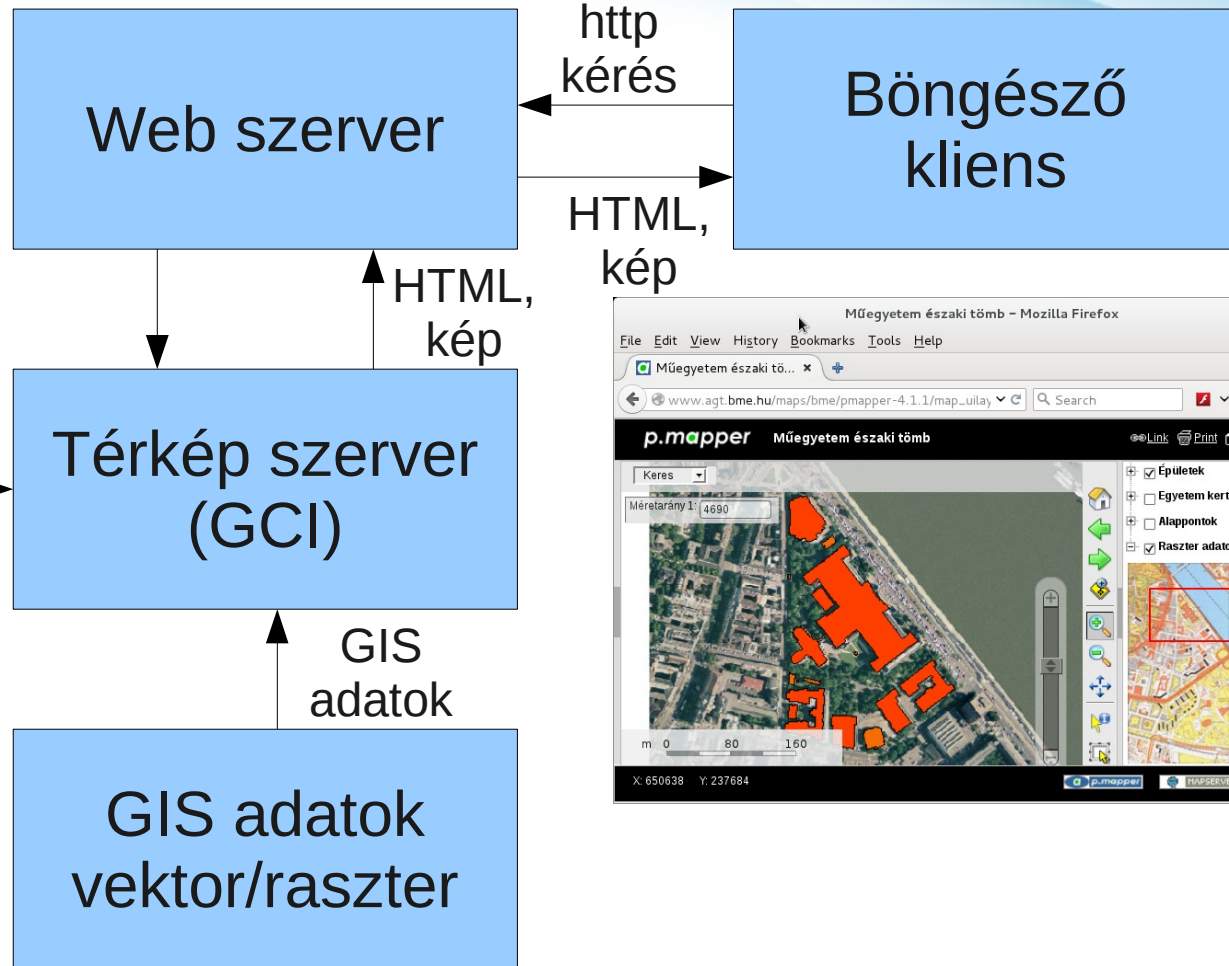


Térkép szerver (MapServer)

```
MAP
EXTENT 465638 79800 851291 313008
IMAGETYPE "png"
NAME "QGIS-MAP"
SHAPEPATH "/home/user/mo"
SIZE 600 600
STATUS ON
UNITS METERS

OUTPUTFORMAT
NAME "png"
MIMETYPE "image/png"
DRIVER "AGG/PNG"
EXTENSION "png"
```

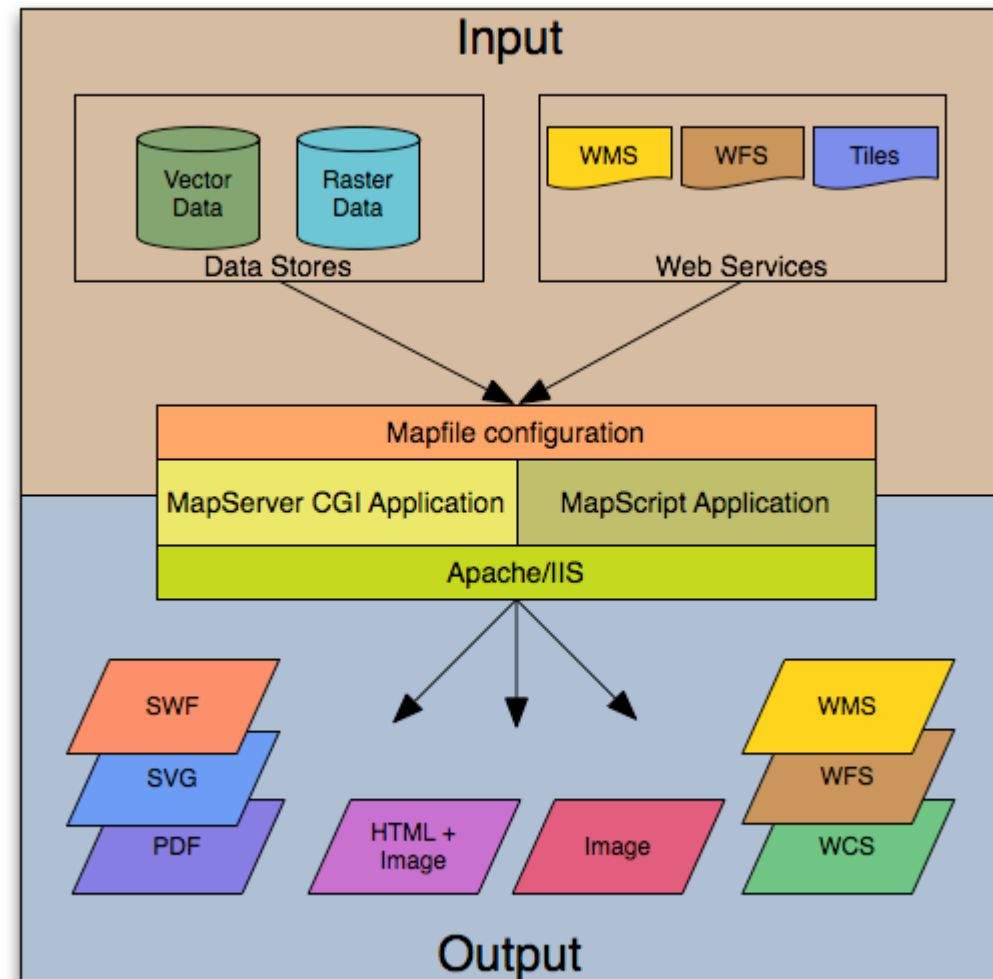


<http://mapserver.org/>

Telepítés/használat

Windows: OSGeo4W telepítő – Express Web-GIS Install

Linux: OSGeo Live DVD vagy pendrive (telepítés nélkül)
Ubuntu-GIS
apt-get, yum csomag telepítők



MapServer
open source web mapping

Térkép szerver

Telepítés ellenőrzése böngészőből:

<http://localhost/cgi-bin/mapserv>

Válasz:

```
No query information to decode. QUERY_STRING is set, but empty.
```

Saját munka könyvtár
(OSGeo-Live környezet):

```
cd /var/www/html  
sudo mkdir mo  
sudo chown user:user mo  
ls -ld mo
```

```
mapserv -v
```

```
MapServer version 6.4.1 OUTPUT=GIF OUTPUT=PNG OUTPUT=JPEG OUTPUT=KML  
SUPPORTS=PROJ SUPPORTS=GD SUPPORTS=AGG SUPPORTS=FREETYPE SUPPORTS=CAIRO  
SUPPORTS=SVG_SYMBOLS SUPPORTS=RSVG SUPPORTS=ICONV SUPPORTS=FRIBIDI  
SUPPORTS=WMS_SERVER SUPPORTS=WMS_CLIENT SUPPORTS=WFS_SERVER  
SUPPORTS=WFS_CLIENT SUPPORTS=WCS_SERVER SUPPORTS=SOS_SERVER  
SUPPORTS=FASTCGI SUPPORTS=THREADS SUPPORTS=GEOS INPUT=JPEG ...
```

Map fájl szerkezete

Fő részek:

MAP

 OUTPUTFORMAT

 WEB

 SCALEBAR

 REFERENCE

 LEGEND

 QUERYMAP

 LAYER (több)

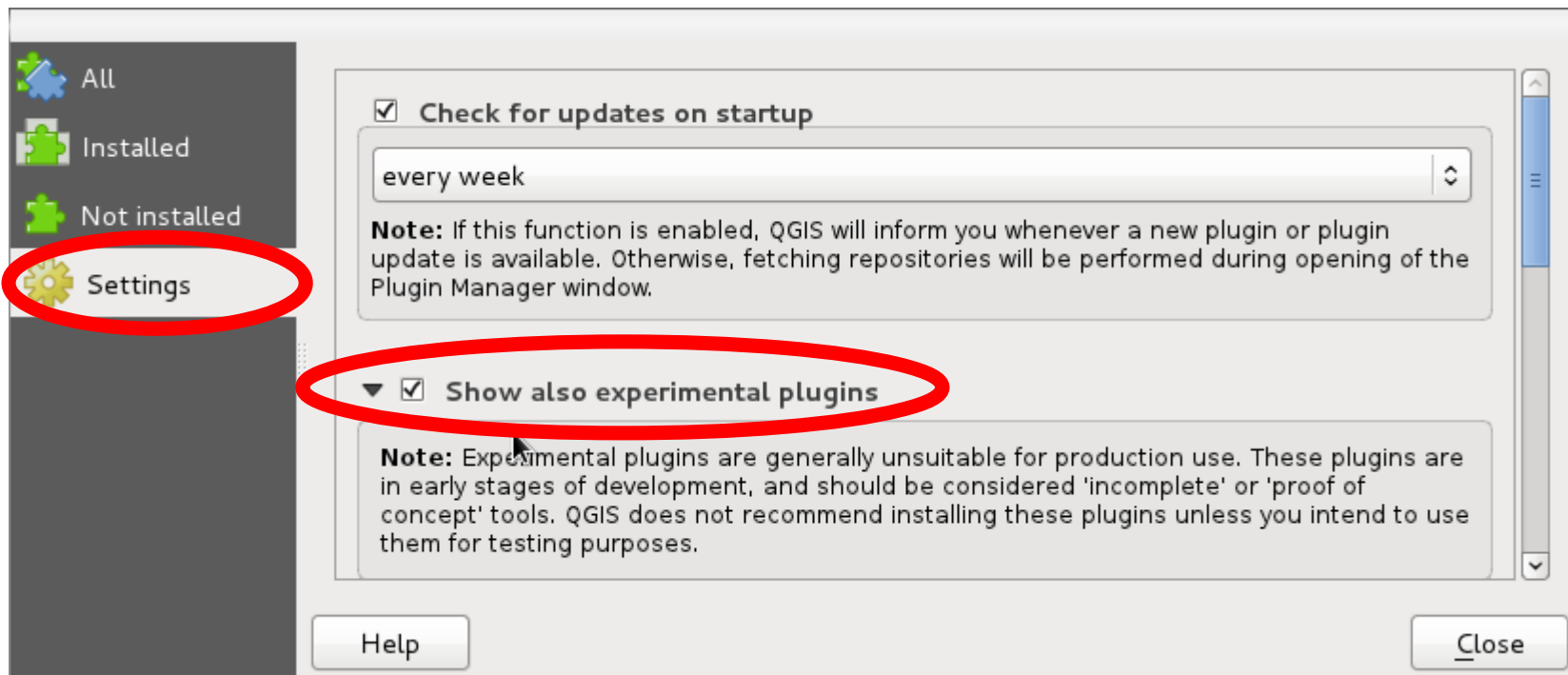
END

Map fájl létrehozás

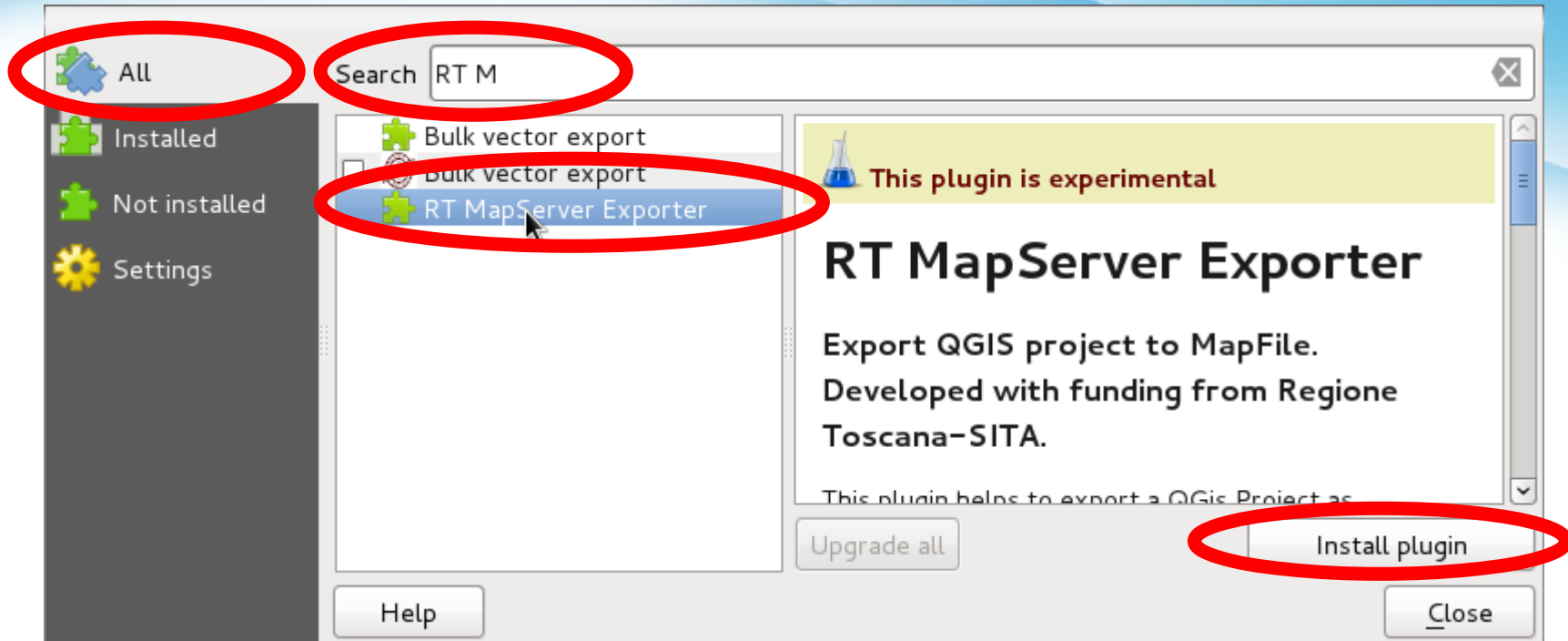
1. Szövegszerkesztővel (Notepad++, medit, stb.)
2. QGIS RT MapServer Exporter
3. MapMint

**Profiknak
QGIS-hez
Kényelmes**

RT MapServer Exporter telepítés (QGIS)



RT MapServer telepítés folytatás

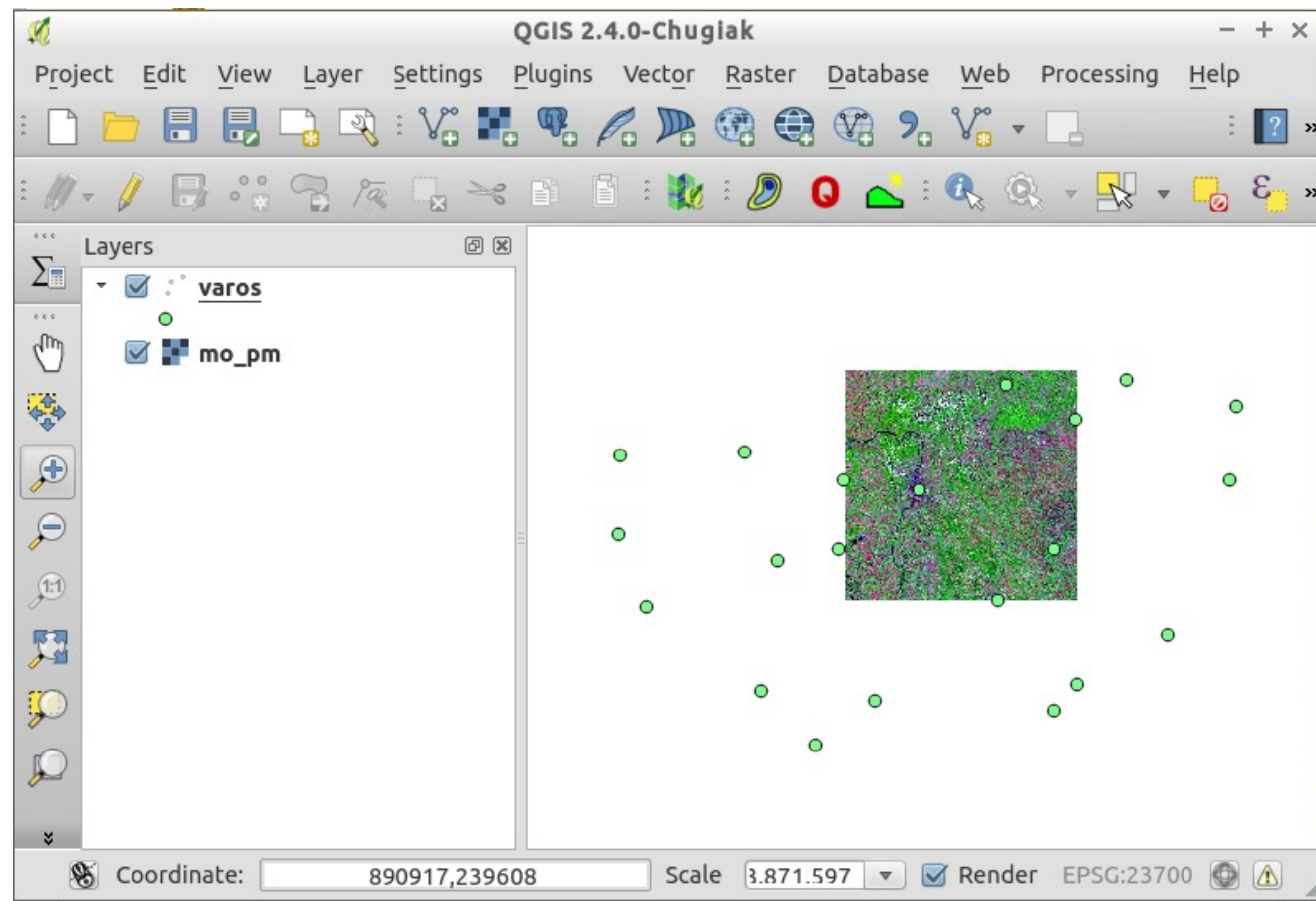


QGIS előkészítés

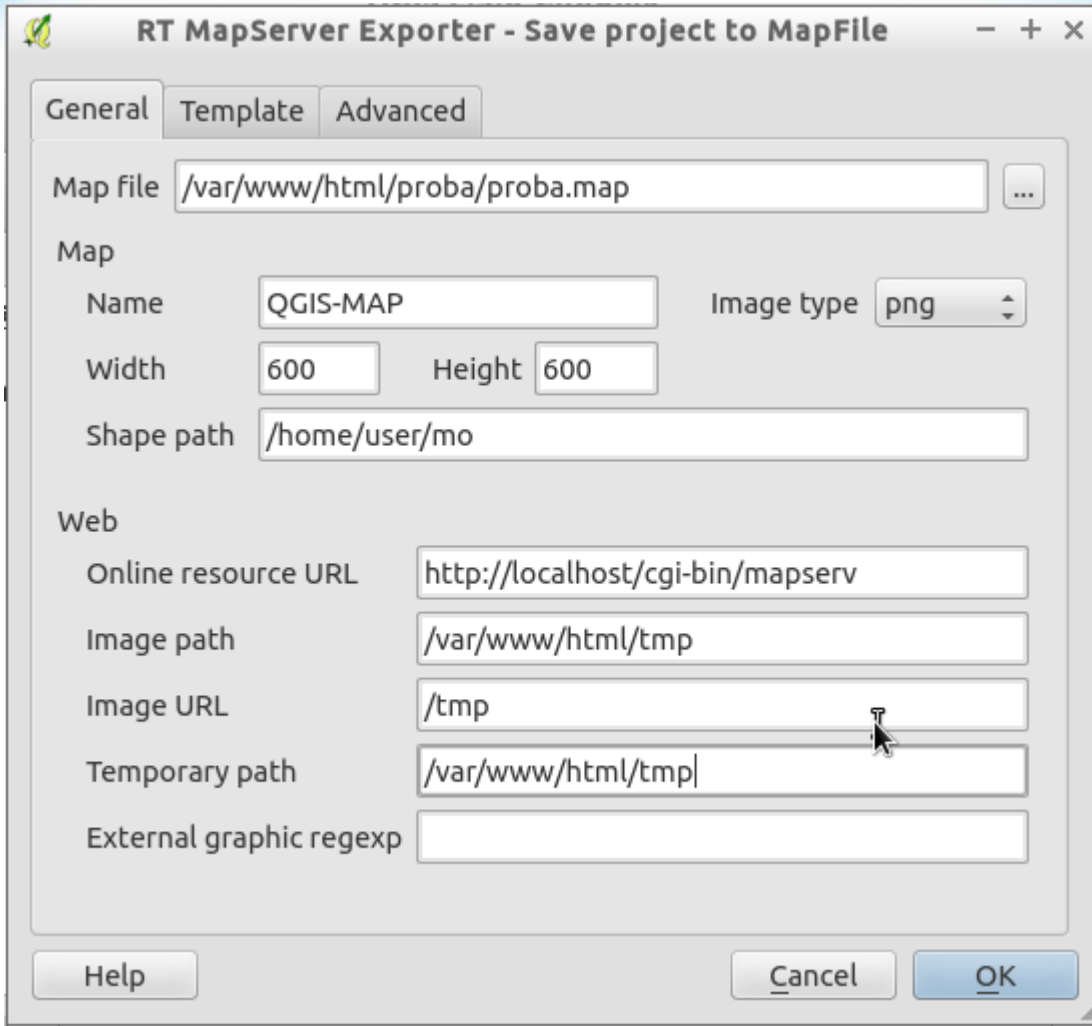
Adatok letöltése: <http://www.agt.bme.hu/php/browse.php?/foss>
mo.zip kibontása (/home/user/mo könyvtárba)

QGIS projekt létrehozása: varos.shp és mo_pm.tif rétegek

Projekt mentése minta.qgs



MapServer Export



The screenshot shows the 'RT MapServer Exporter - Save project to MapFile' dialog box. It has three tabs: 'General', 'Template', and 'Advanced'. The 'General' tab is active. The 'Map file' field contains '/var/www/html/proba/proba.map'. Under the 'Map' section, 'Name' is 'QGIS-MAP', 'Image type' is 'png', 'Width' is '600', and 'Height' is '600'. 'Shape path' is '/home/user/mo'. Under the 'Web' section, 'Online resource URL' is 'http://localhost/cgi-bin/mapserv', 'Image path' is '/var/www/html/tmp', 'Image URL' is '/tmp', 'Temporary path' is '/var/www/html/tmp', and 'External graphic regexp' is empty. At the bottom are 'Help', 'Cancel', and 'OK' buttons.

Map fájl módosítása (medit)

Kész map fájl:

<http://www.agt.bme.hu/gis/mapserv>

Kipróbálás segédprogrammal

```
shp2img -m minta.map -o minta.png -l "varos mo_pm"
```

Map fájl kipróbálása böngészőből

CGI MapServer

<http://localhost/cgi-bin/mapserv?map=/var/www/html/proba/proba.map&mode=map&layer=varos>

CGI MapServer + OpenLayers

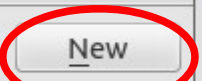
http://localhost/cgi-bin/mapserv?map=/var/www/html/proba/proba.map&mode=browse&template=openlayers&layer=varos&layer=mo_pm

WMS szerver:

<http://localhost/cgi-bin/mapserv?map=/var/www/html/proba/proba.map&SERVICE=WMS&VERSION=1.3.0&REQUEST=GetCapabilities>

<http://localhost/cgi-bin/mapserv?map=/var/www/html/proba/proba.map&SERVICE=WMS&VERSION=1.3.0&REQUEST=GetMap&LAYERS=varos&CRS=epsg:23700&BBOX=465000,79800,851000,313000&format=png&width=500&height=500>

WMS használata QGIS-ből



Create a new WMS connection

Connection details

Name:

URL:

If the service requires basic authentication, enter a user name and optional password

User name:

Password:

Referer:

DPI-Mode:

- Ignore GetMap/GetTile URI reported in capabilities
- Ignore GetFeatureInfo URI reported in capabilities
- Ignore axis orientation (WMS 1.3/WMTS)
- Invert axis orientation
- Smooth pixmap transform

Buttons: Help, Cancel, **OK**

OpenLayers – WMS szerver

```
<html>
<head>
  <meta charset='utf-8' />
  <title>Minta</title>
  <script type='text/javascript' src='/openlayers/OpenLayers.js'></script>
  <script defer="defer" type="text/javascript">
var map;
function init() {
  map = new OpenLayers.Map('map',
    {projection: 'EPSG:23700',
      maxExtent: new OpenLayers.Bounds(424000 41000 940000 361000), units: 'm'});

  var varos = new OpenLayers.Layer.WMS('varos', 'http://localhost/cgi-bin/mapserv?
map=/var/www/html/proba/proba.map&version=1.3.0',{layers: 'varos'});
  map.addLayer(varos);
  map.zoomToMaxExtent();
}
</script>
</head>
<body onload='init();'>
  <div style="width:100%; height:100%" id="map"></div>
</body>
</html>
```

OpenLayers

```
<html>
<head>
  <meta charset='utf-8' />
  <title>Minta</title>
  <script type='text/javascript' src='/openlayers/OpenLayers.js'></script>
  <script defer="defer" type="text/javascript">
var map;
function init() {
  map = new OpenLayers.Map('map',
    {projection: 'EPSG:23700',
      maxExtent: new OpenLayers.Bounds(424000,41000,940000,361000), units: 'm'});
  map.addControl(new OpenLayers.Control.LayerSwitcher());
  map.addControl(new OpenLayers.Control.OverviewMap());
  map.addControl(new OpenLayers.Control.KeyboardDefaults());
  map.addControl(new OpenLayers.Control.ScaleLine({
    MaxWidth: 200, bottomOutUnits: "", bottomInUnits: ""
  }));

  var varos = new OpenLayers.Layer.WMS('varos', 'http://localhost/cgi-bin/mapserv?
map=/var/www/html/proba/proba.map&version=1.3.0',{layers: 'varos'}, {transitionEffect: 'resize'});
  map.addLayer(varos);
  map.zoomToMaxExtent();
}
</script>
```

...