

GIS software

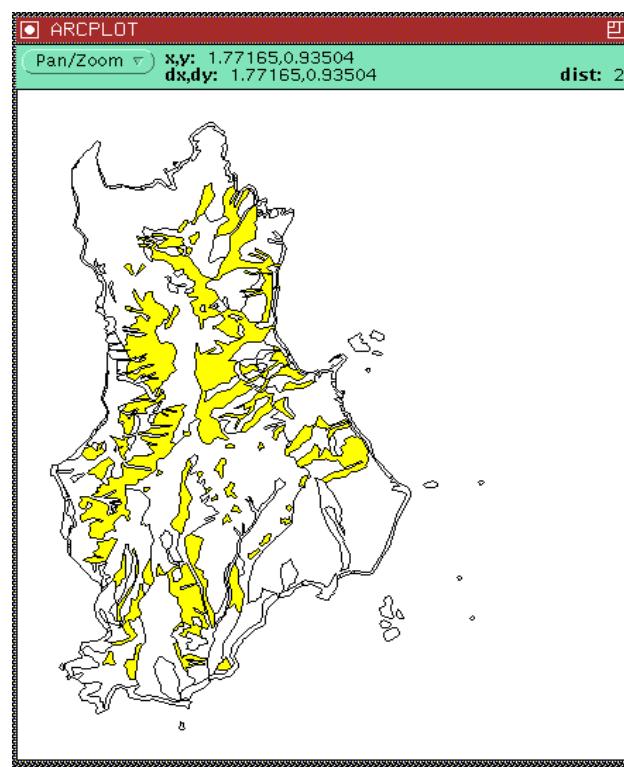
- Datový model
- Databázový stroj
- Funkcionalita
 - Analýza
 - Kartografické funkce
- Rozšiřitelnost
- Platforma
- Výkon

Typy software

- GDBMS
- Produkční systém
- Desktop GIS
- Web GIS server
- Viewer

ESRI

- 1969
- POIS
- Do 90-tych UNIX
- ARC/INFO – ArcView- ArcGIS
- TVM + GRID
- AML – AVENUE – COM(VBA)
- Dynamická vizualizace, Mapová a Overlay algebra, CGM podobná metagrafika



gort

```
: find all woodlands.

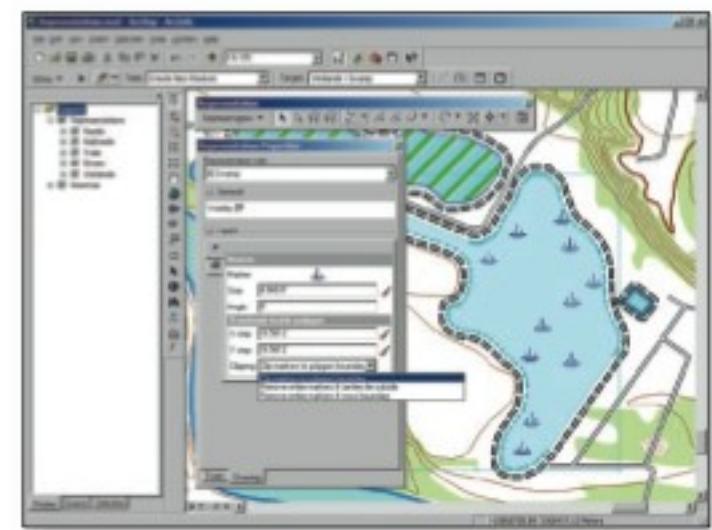
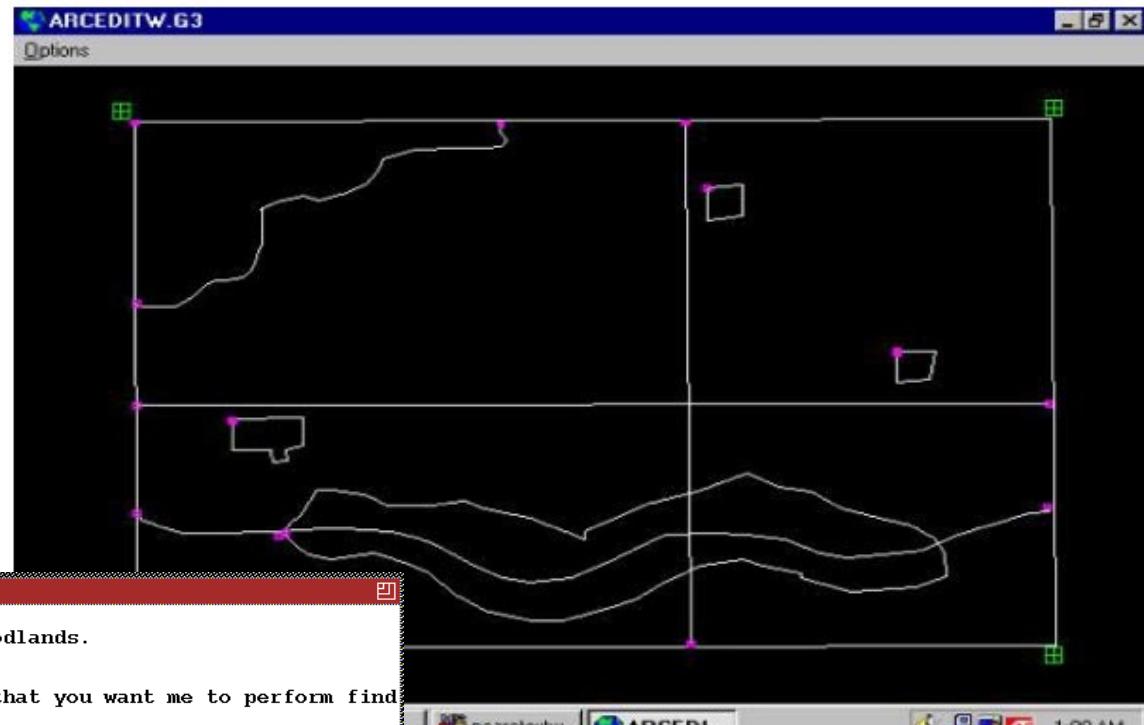
I understand that you want me to perform find
on woodlands.

Now doing: mapect %.db%//VEGETATION;clearsele
ct;reselect %.db%//VEGETATION POLYGON LEGEND//V
EGTYPE = 'woodlands'; &s .shadecolor = %.shade
color% + 1;polygonshades %.db%//VEGETATION %.sh
adecolor%;clearselect;linecolor black;arcs %.d
b%//VEGETATION
RESULT
Resulting parse:

Time (sec.): 117.84
```

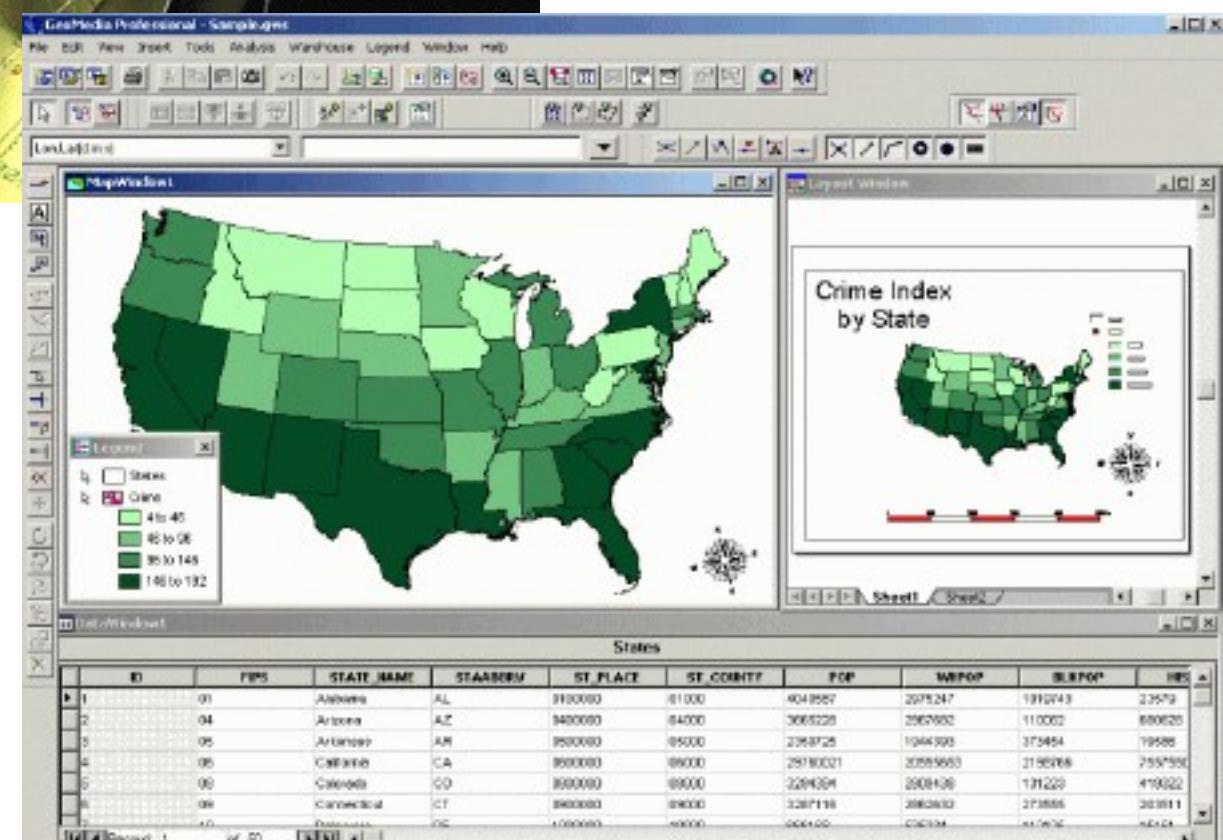
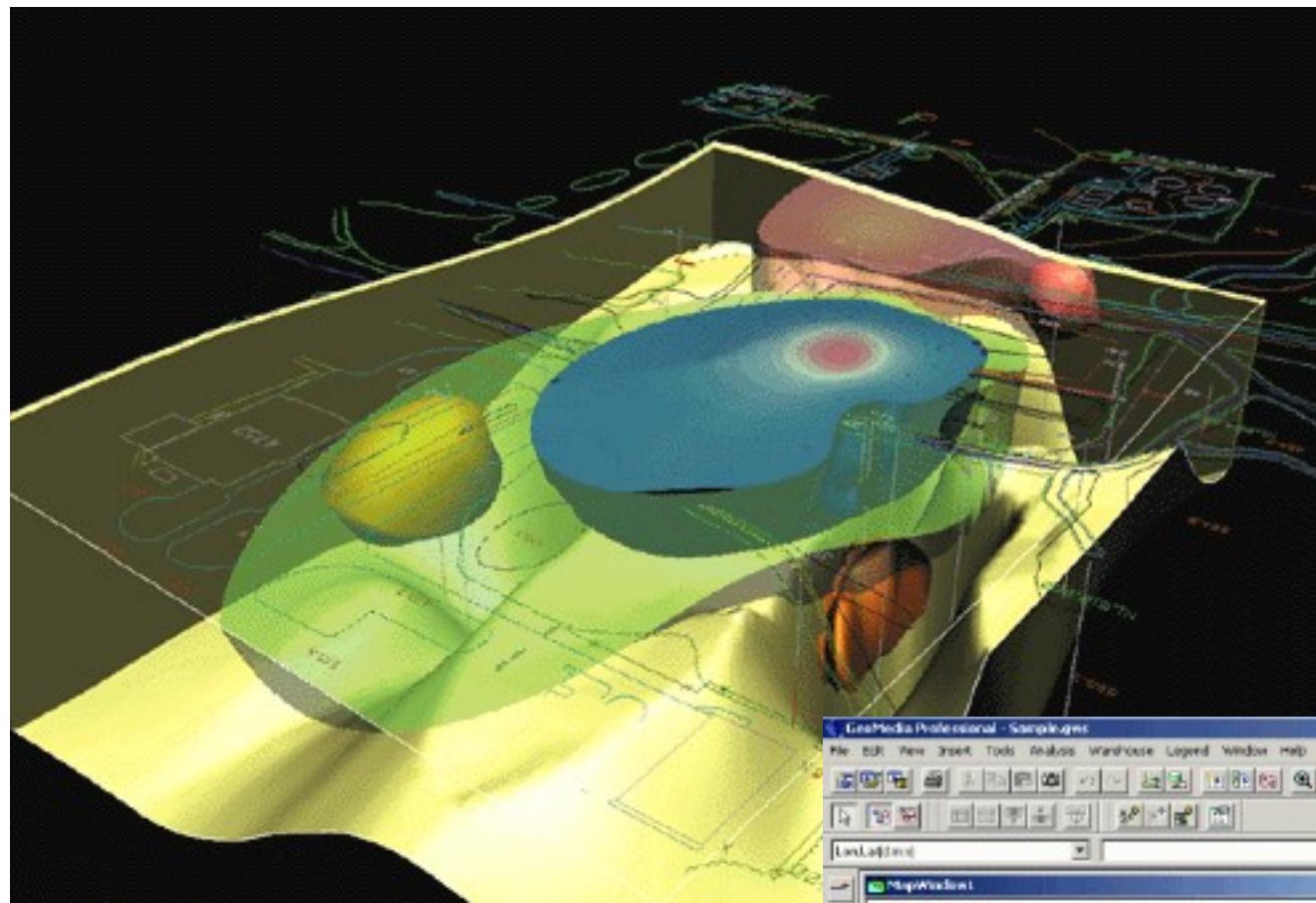
navi.cs.Buffalo.EDU

```
1: mapect /ncgia/naumov/public_html/project
/database/VEGETATION
1: clearselect
1: reselect /ncgia/naumov/public_html/proje
ct/database/VEGETATION POLYGON LEGEND//VEGTYPE
= 'woodlands'
/NCGIA/NAUMOV/PUBLIC_HTML/PROJECT/DATABASE/VEG
ETATION polys : 63 of 238 selected
1: &s .shadecolor = 6 + 1
1: polygonshades /ncgia/naumov/public_html/
project/database/VEGETATION 7
1: clearselect
1: linecolor black
1: arcs /ncgia/naumov/public_html/project/d
atabase/VEGETATION
```



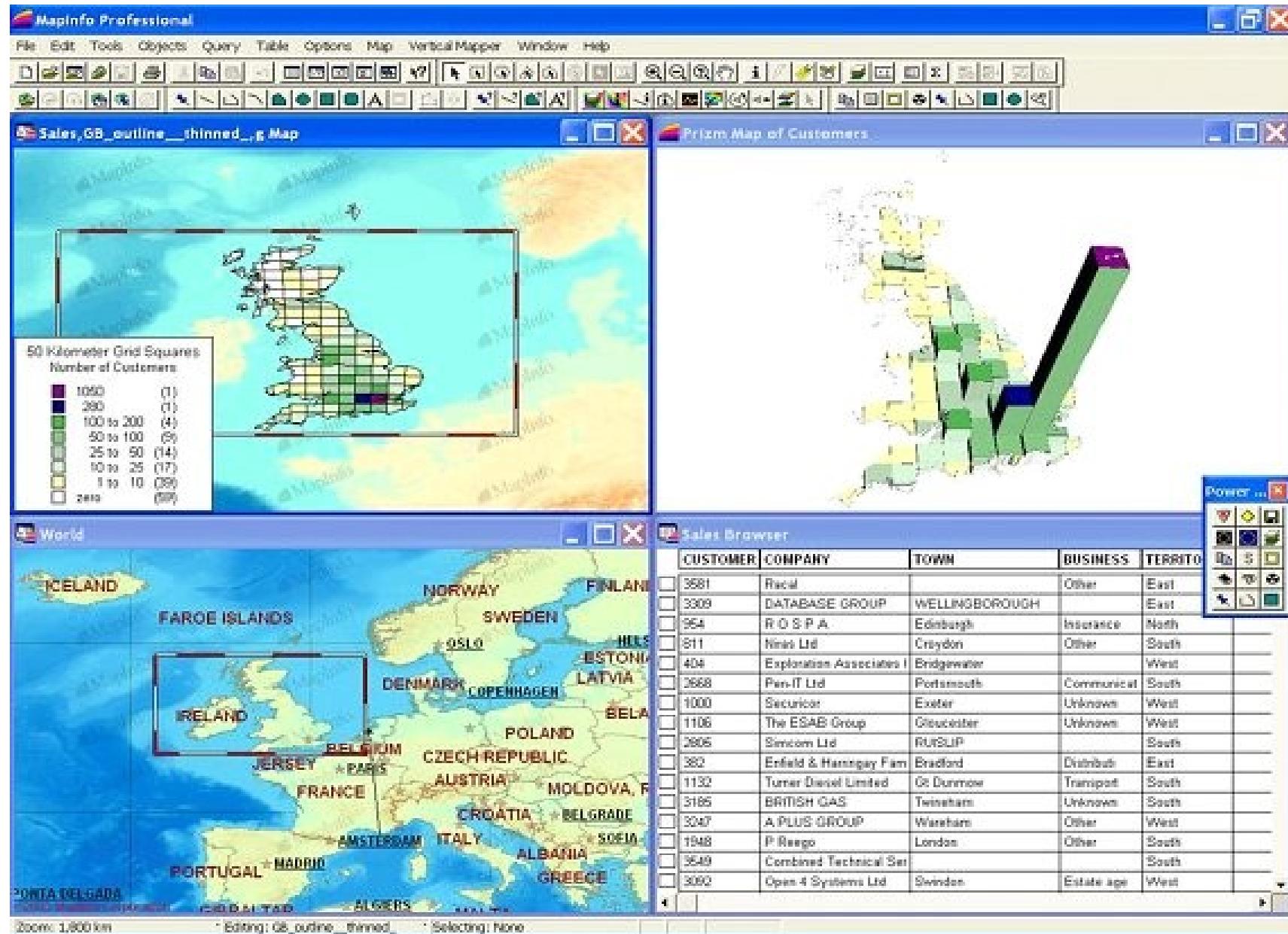
INTERGRAPH

- 1969
- IGDS
- MGE
- Spaghetti + TVM (Topofile)
- Dynamo
- Voxely
- Geomedia (



MapINFO

- 1986
- MS Win desktop GIS
- Kartodiagramy
- Spaghetti + SQL
- Bez gridu, OLE ...



GDBMS

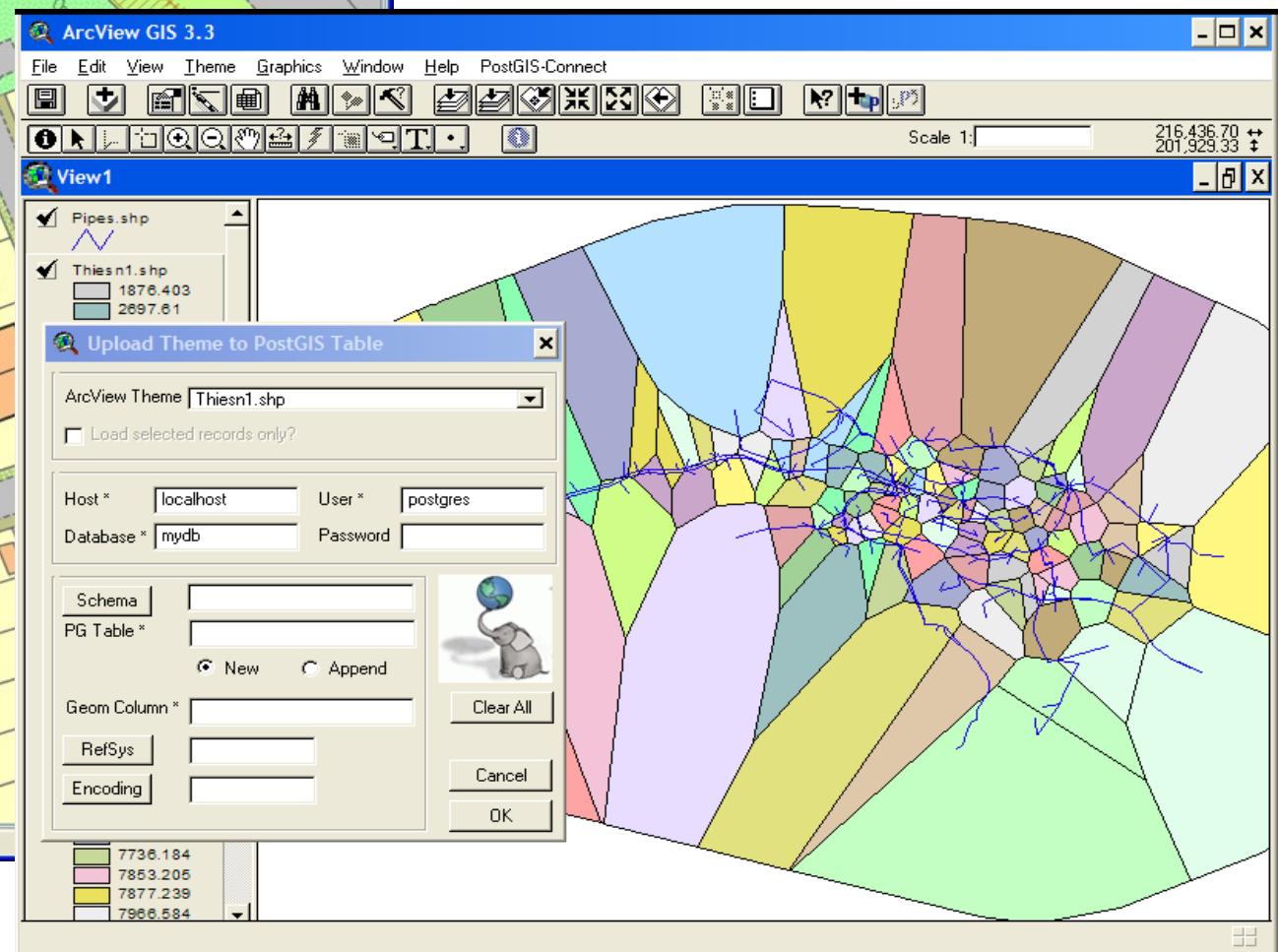
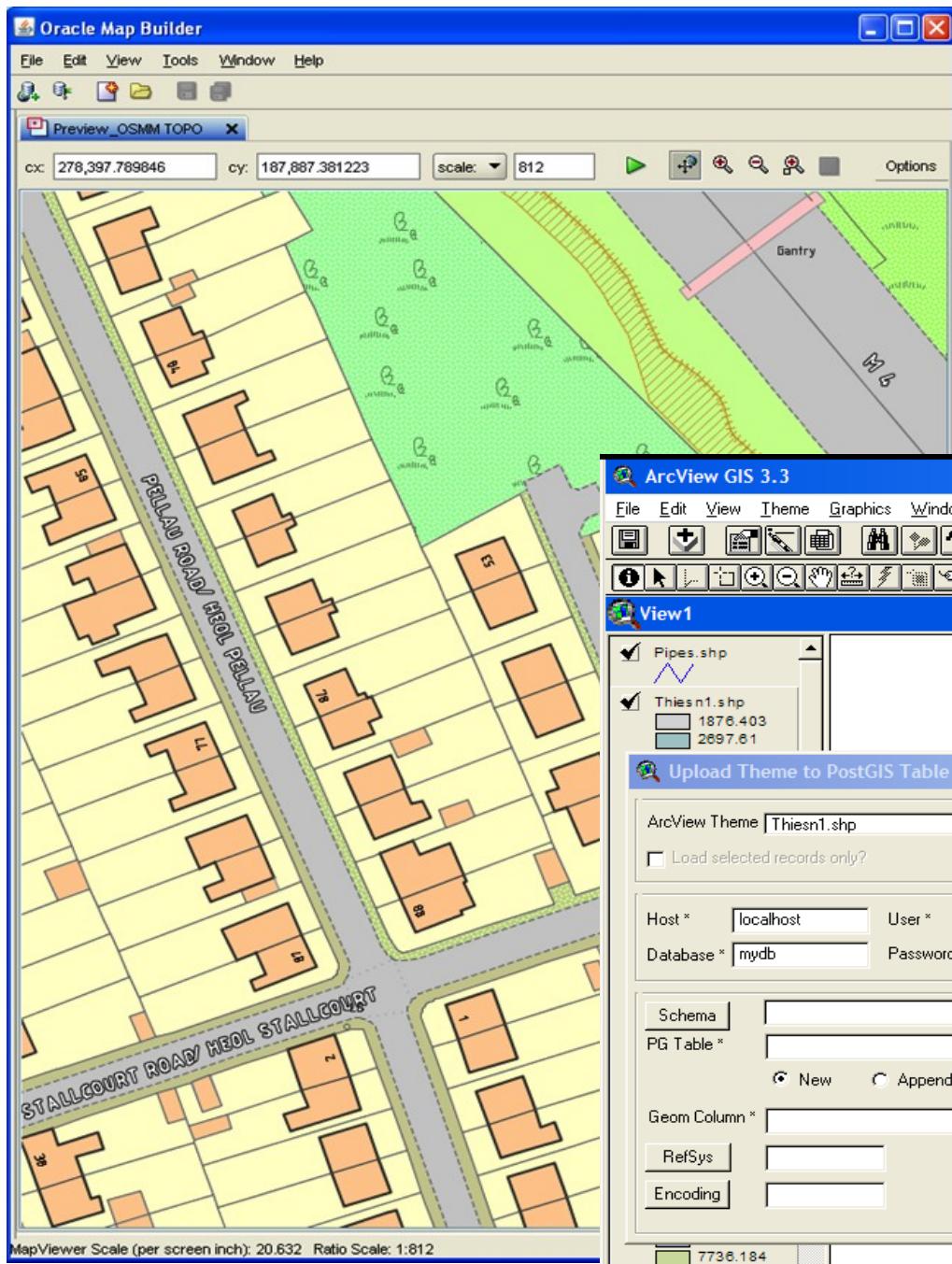
ORACLE SDO

ESRI SDE

SF for SQL

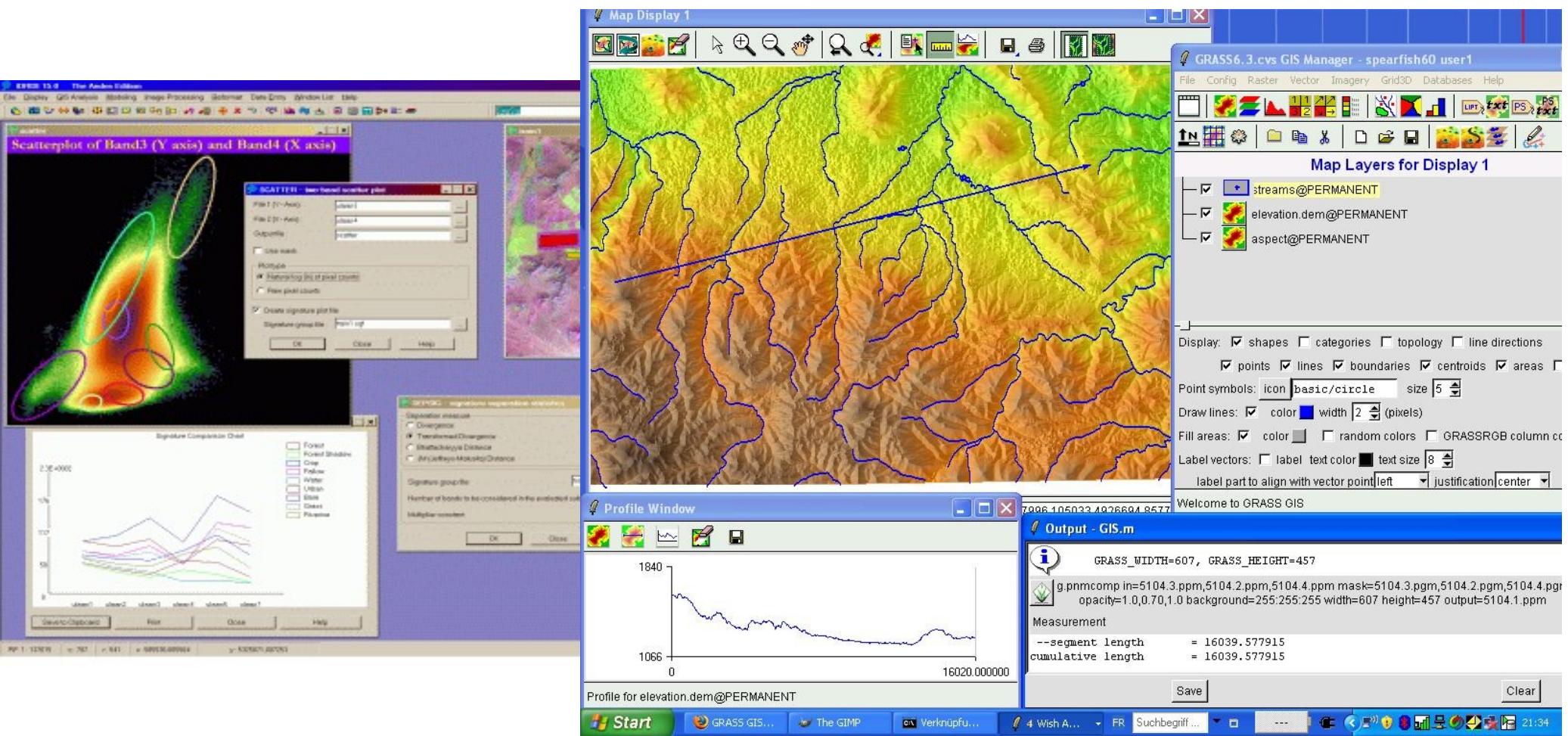
PostGIS

MySQL spatial extension



GRID GIS

IDRISI, GRASS, ERDAS



WebServer

- OGC WMS, WCS, WFS
- ArcGIS server
 - .NET +JAVA
- Mapserver
- Geoserver

Opensource

JTS - GEOS

JUMP

uDIG

QuantumGIS

