pitney bowes

GIS for local government and energy planning

ESTGIS Annual Conference

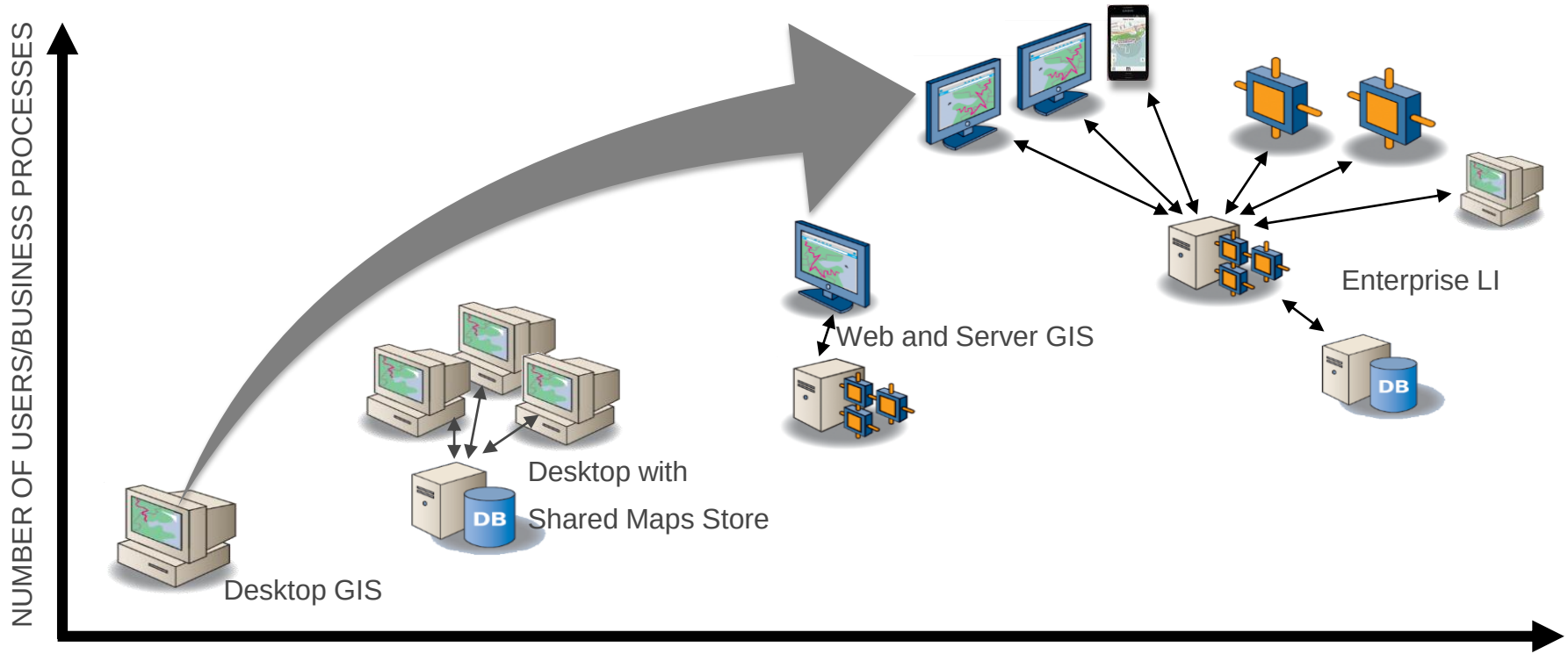
October 14, 2016

Håkan Karlsson, Systems Engineer GIS

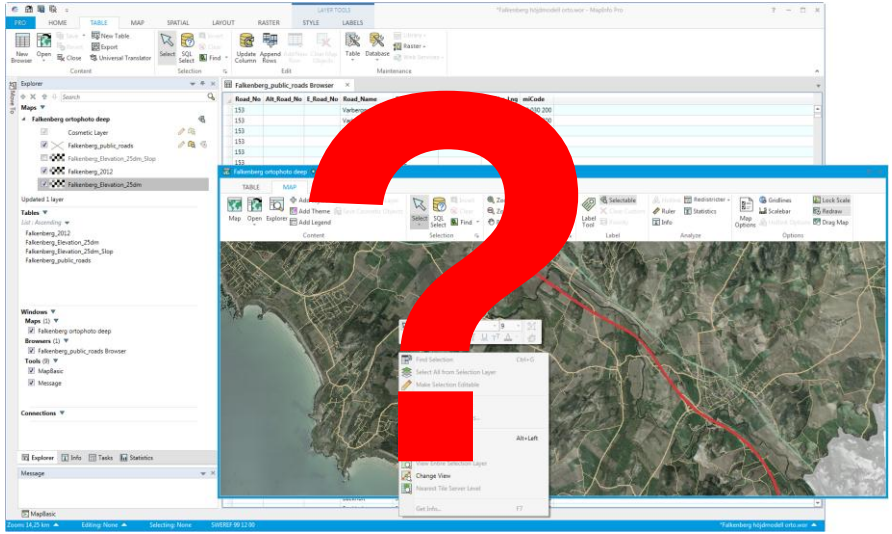
Desktop GIS

Swedish case studies in Local Government and Energy planning

Evolution of the GIS eco system

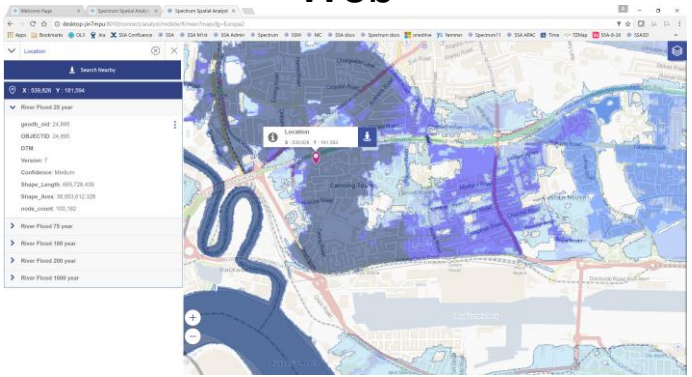


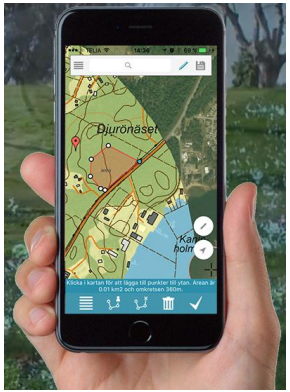
“Desktop GIS is dead!” – True or false?



Desktop GIS

Web





Mobile

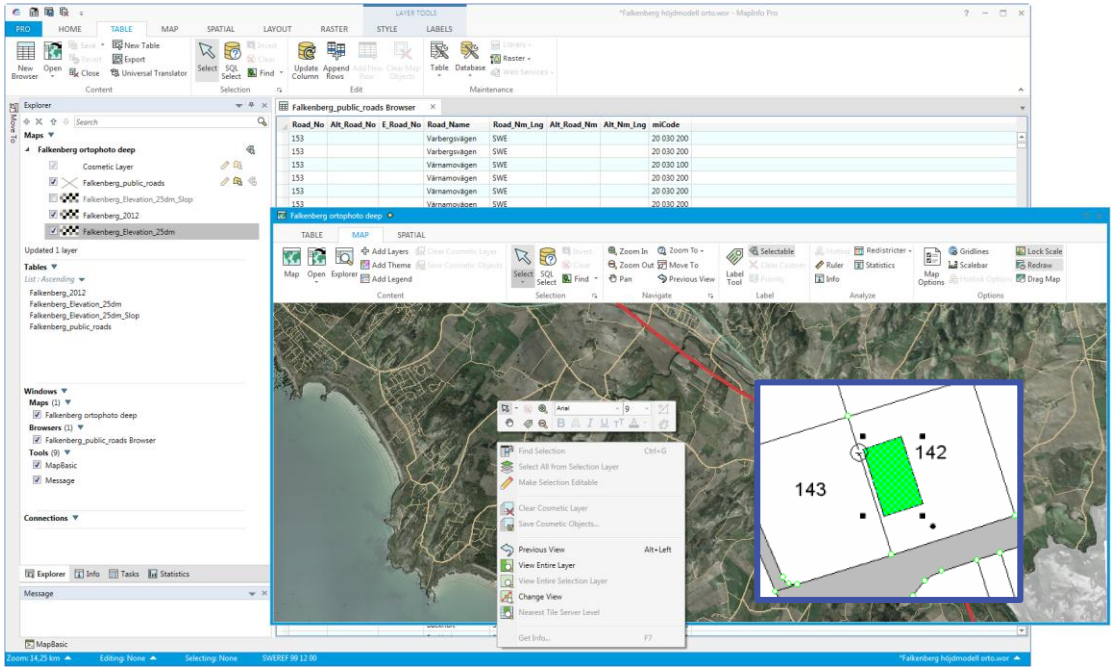
Desktop GIS strengths

Preparing and validating data

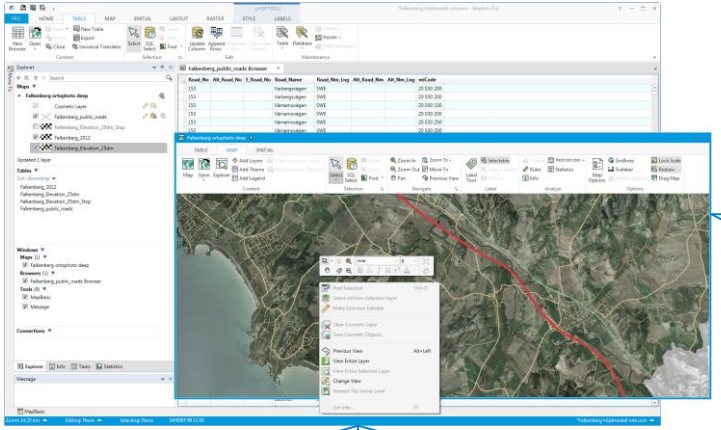
Edit and verify geometries
- Create, edit, check

Edit and verify attributes
- Insert, update, aggregate

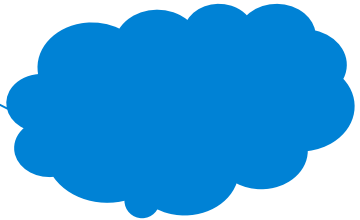
Create map definition
- Look ’n feel per zoom level



Combining multiple and large datasets add-hoc



OGC

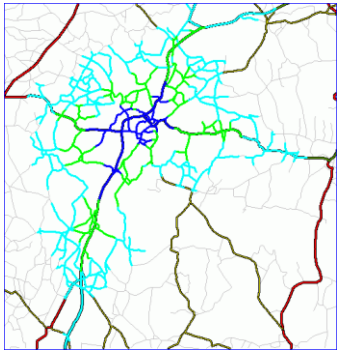


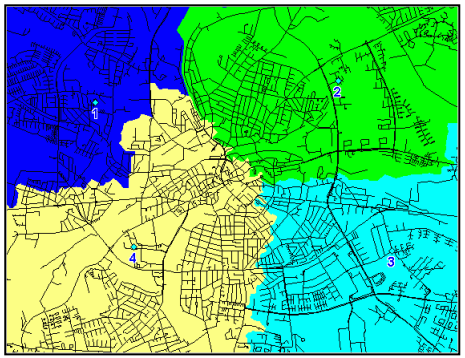
Large Local Files

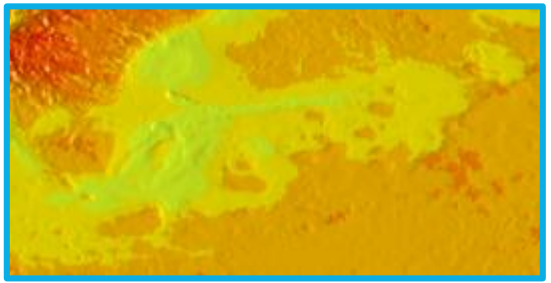
Business Systems

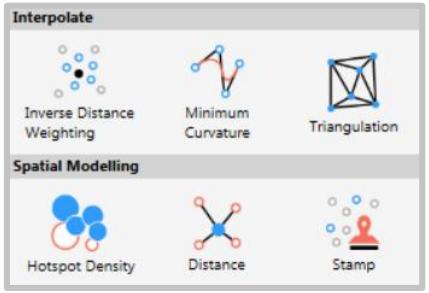
Scanned Images

Advanced analysis requiring rich toolsets



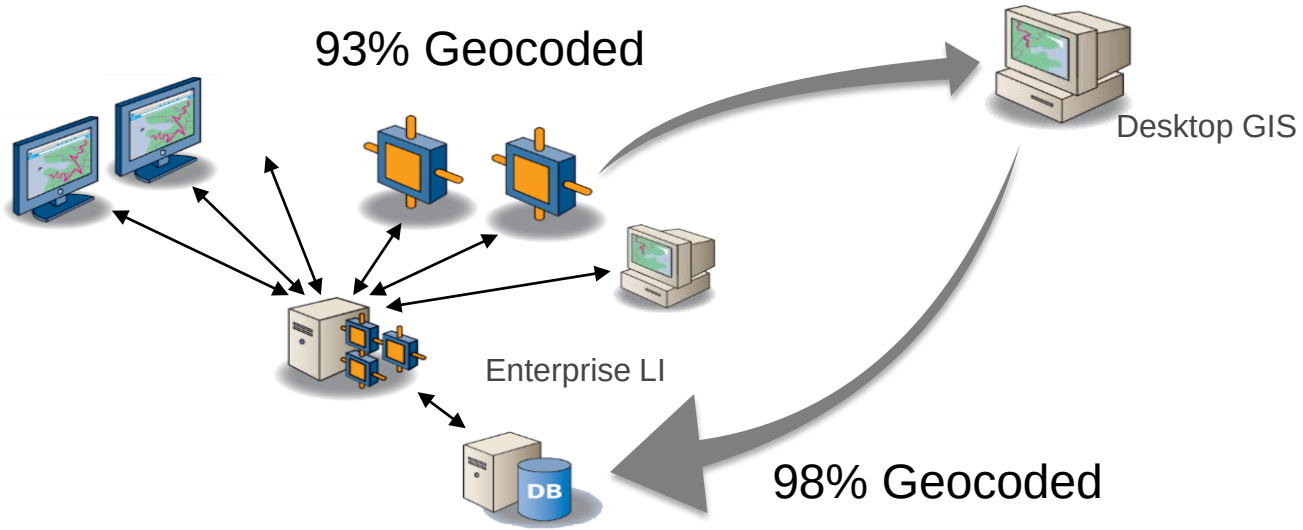




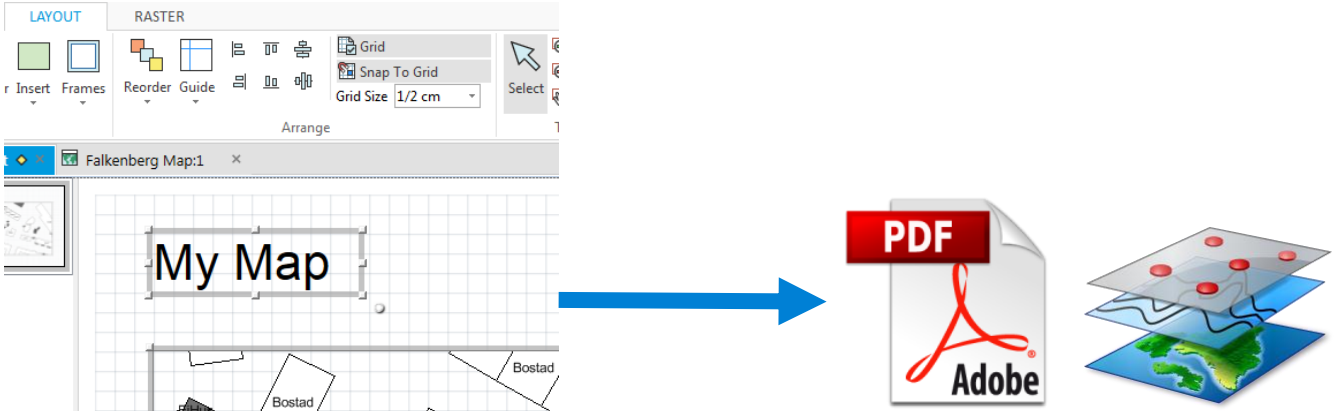


Exception Management

- Correct the data
- Complete the data
- Interpret the data

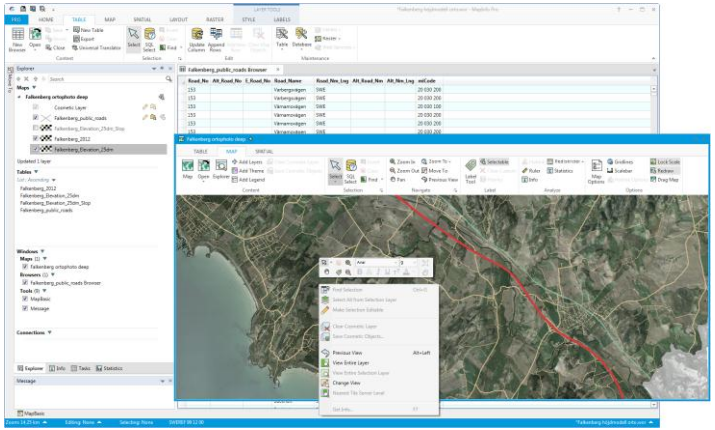


Producing Custom Reports

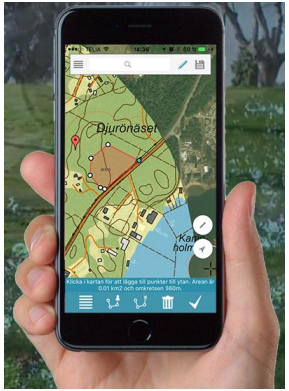


Desktop publishing capability

And what about off-line?

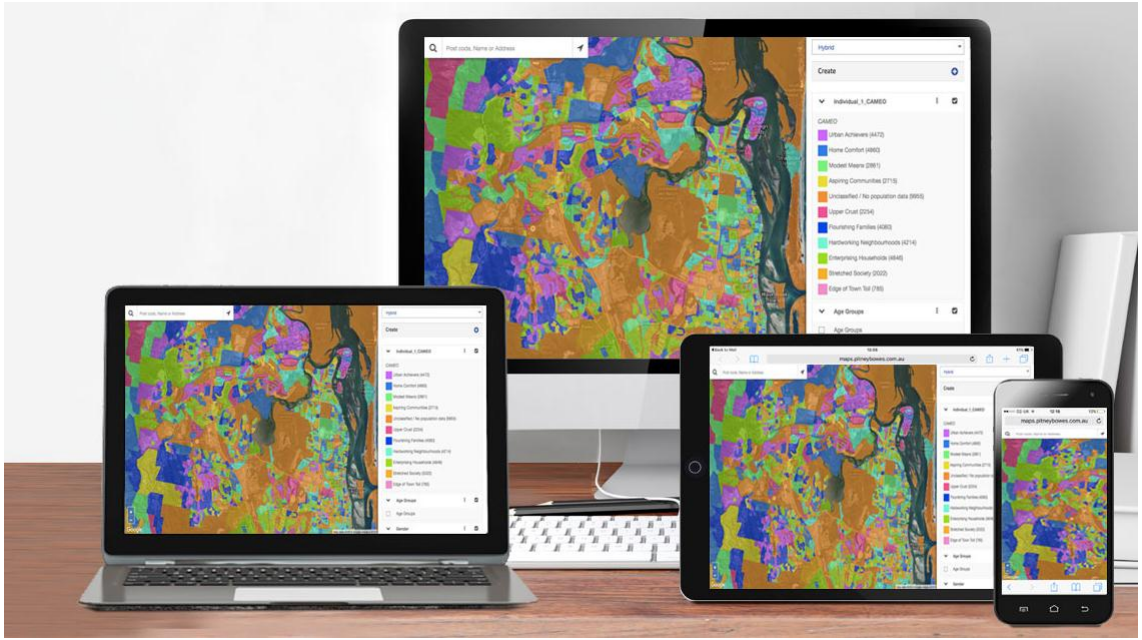


Rich toolset
Large volumes of local data



Limited toolset
Limited local data

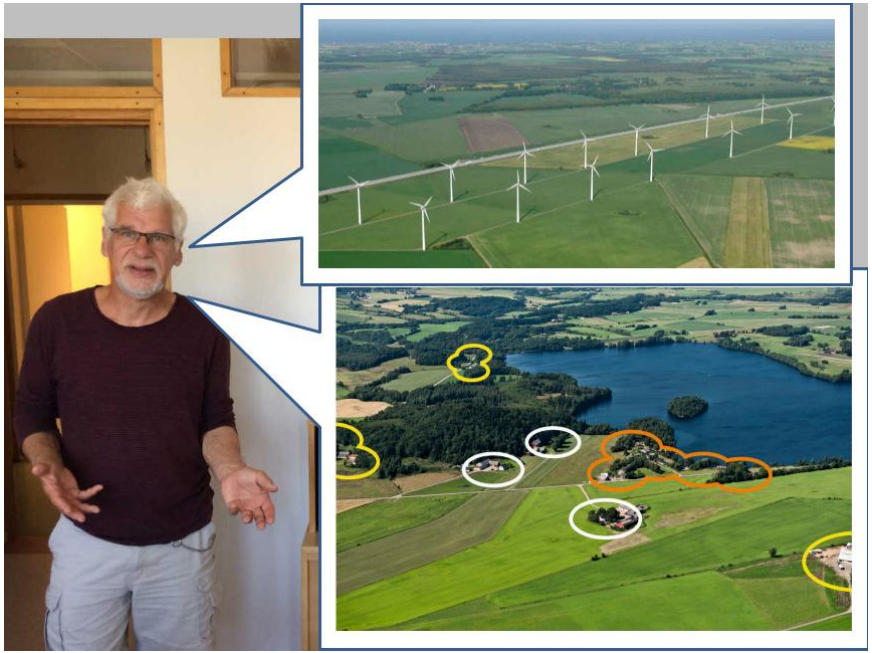
Conclusion



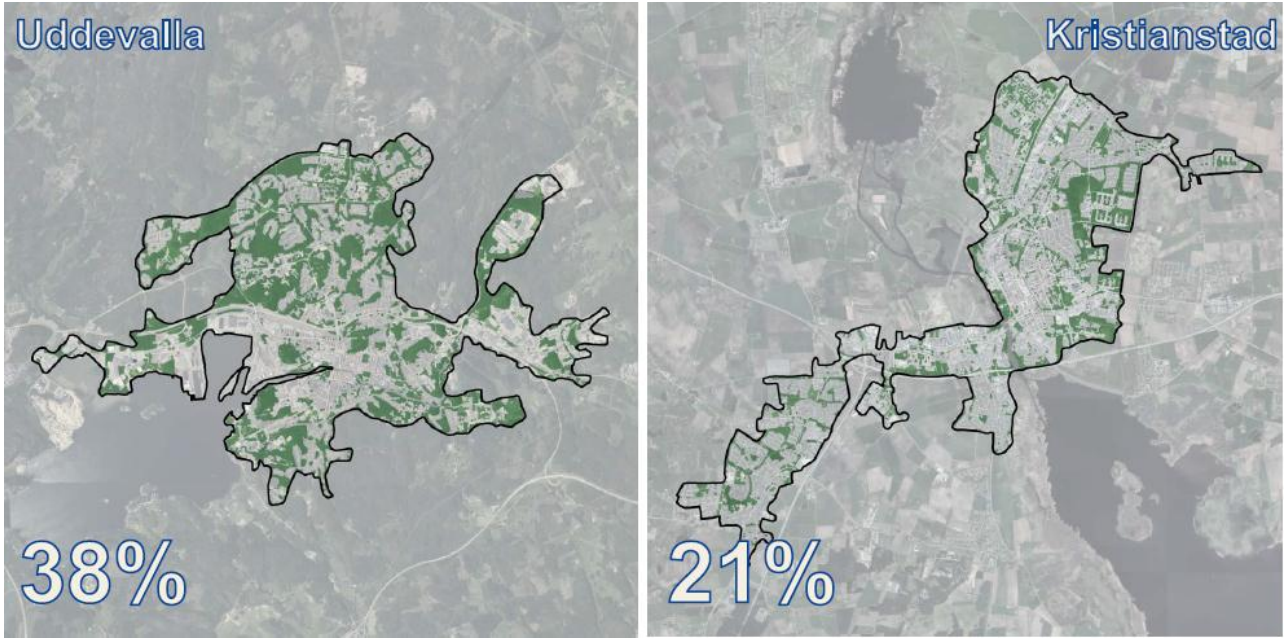
Desktop GIS is part of the mix for many years to come!

Swedish case studies with Desktop GIS

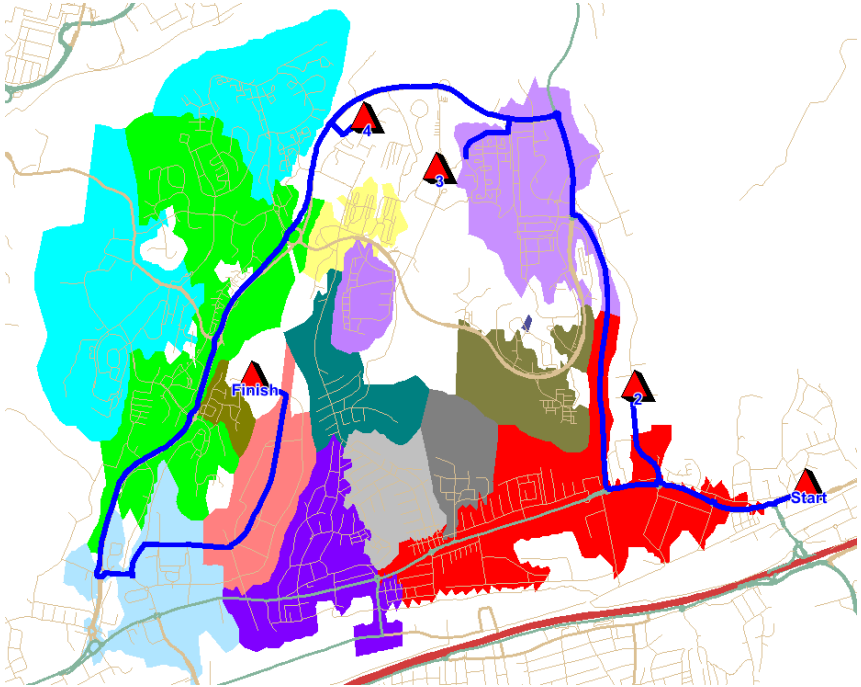
“Can we create larger restrictions zones around clusters where there are more residential buildings?”



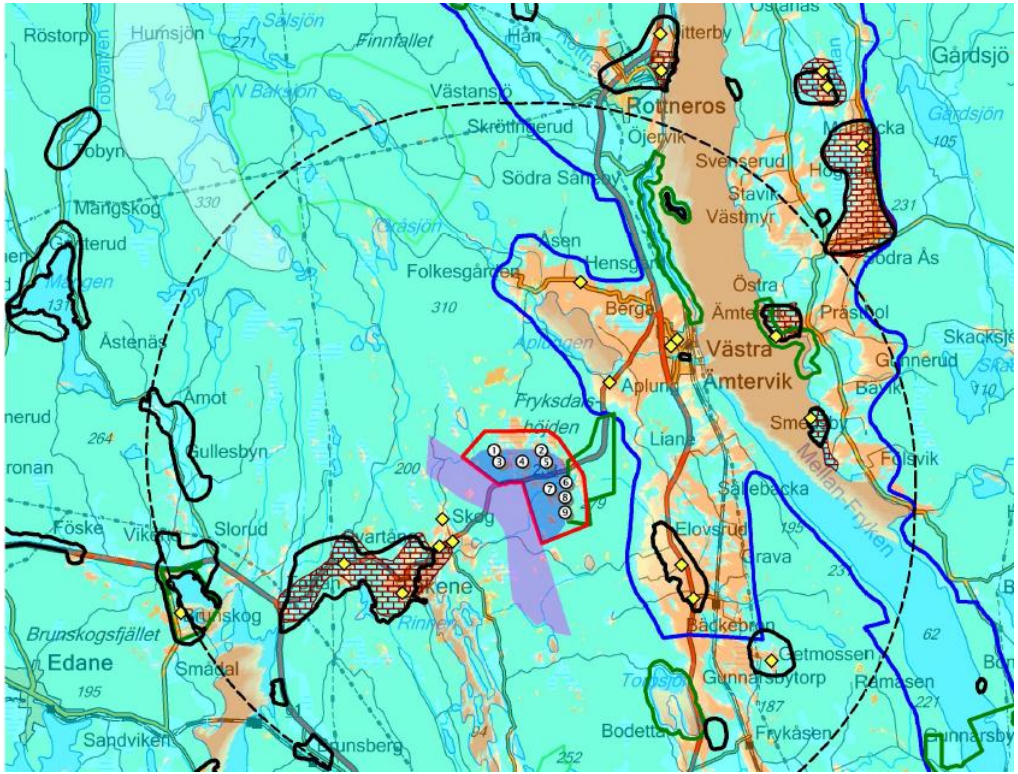
“How do different towns compare when it comes to the access to green areas in total and per citizen?”



“What capacity is needed for distributing water to all citizens in case of an emergency?”



“Where are the best locations for placing new windmill power plants, based on a multi-criteria analysis?”



Legend

- Proposed windmill
- Photo location
- Proposed windmill zone
- Regional culture protection zone
- Landscape protection zone
- National culture protection
- National recreation zone
- 10 km distance to nearest windmill
- Windmill zone, Sunne municipality
- Windmill zone, Arvika municipality

Visibility Analysis

For 9 windmills, 200 m height

- 0 visible
- 1-9 visible

0 5

kilometres

Scale: 1:150 000

Thank You!