

Migration to Open Source GIS - Case Study

About Us

- QGIS core development
- Public QGIS tools and plugins
- Other activities

Migration to Open Source GIS

- Current state
- Proprietary software
- Black box OS software

Case study - Newcastle City Council

- Business Case & Rational
- Evaluation and pilot study
- Full implementation

Lutra Consulting

- ▶ Core QGIS developers
- ▶ General (GIS) software/web development
- ▶ Support
- ▶ Training

Development of:

- ▶ Multi-threaded rendering (2.4)
- ▶ Legend re-factoring and support for virtual multi-canvas, multi-styling (2.6 - 2.10)
- ▶ Rule-based labelling (2.12)
- ▶ Trace digitizing and snap caching (2.14)
- ▶ For the upcoming 2.16 release:
 - ▶ Legend item widget tool
 - ▶ Enhancement to the "reshape" digitizing tool
 - ▶ Advanced "preset" settings for the Print Composer

Various plugins



Services

- ▶ Consultancy
- ▶ Web(mapping) development
- ▶ Training
- ▶ Support

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SDI environments:

- ▶ Proprietary software
- ▶ Black boxes with Open source components
- ▶ Hybrid

Pros and Cons

- ▶ Advantages:
 - ▶ Unified platform
 - ▶ Support and documentation
 - ▶ Usability
- ▶ Disadvantages
 - ▶ Dependency
 - ▶ Overall cost
 - ▶ Flexibility

Pros and Cons

- ▶ Advantages:
 - ▶ Things work
 - ▶ Easy to migrate away
- ▶ Disadvantages
 - ▶ Similar cost to Proprietary Software
 - ▶ Not configurable/Customisable

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Why migrate away:

- ▶ Performance issues
- ▶ Expensive software
- ▶ More number of users
- ▶ Unwanted extras

Evaluation and pilot study

- ▶ Migrating some data to PostGIS
- ▶ Migrating power users to QGIS
- ▶ Identifying blockers
- ▶ Assessing data & service compatibility and interoperability

Customised QGIS - based on the LTR

- ▶ Resolving issues with the Active Directory
- ▶ Development of a QGIS plugin for gazetteer
- ▶ Integration with their OGC services
- ▶ Fixing bug (backport to QGIS project)



Bespoke training for over 75 users

- ▶ Conversion from previous platform to QGIS
- ▶ Several new users