Oxford Archaeology and the Challenges of Going Open Source in Geomatics

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&

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Oxford Archaeology

- independent archaeology and heritage practice
- •250 staff
- founded in 1973
- educational charity
- •strategic commitment "Open Archaeology"



Open Archaeology FIRE SCHOOLS Open data Open standards Open Source RADCLIFFE SQUARE oxford archaeology: exploring the human journey

Open Source

• making/developing our own software open source

•using open source stuff:

Linux (SuSE)

NX

Solaris

Python

OpenOffice.org

FreeMind

Alfresco

PDFCreator

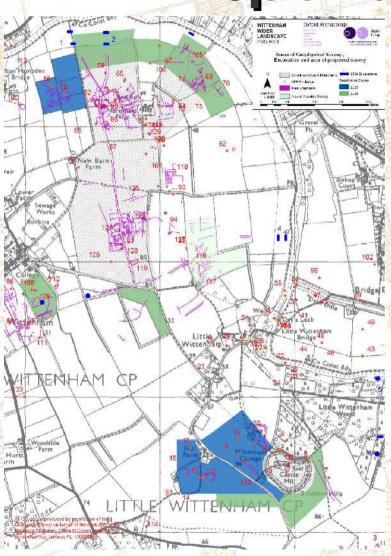
Joomla

GanttProject

LifeRay

PostgreSQL

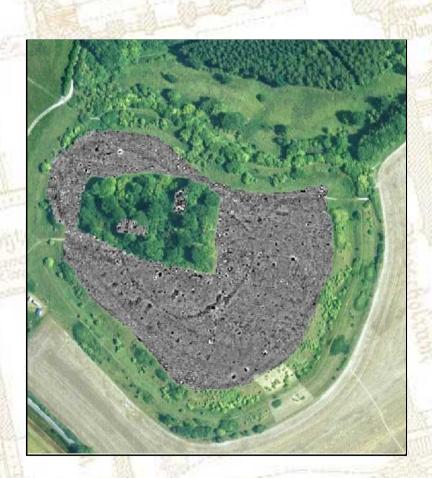
(and some GIS bits...)



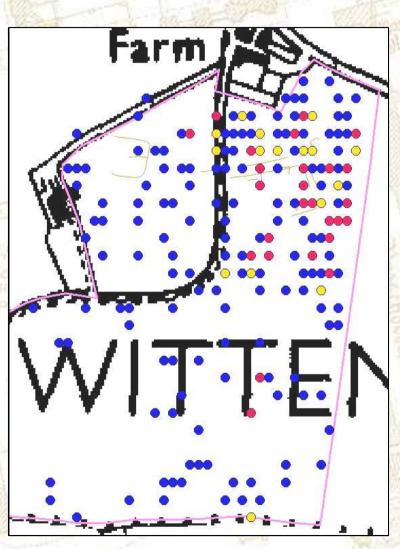
Landscape surveys

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Historic maps



- Landscape surveys
- Historic maps
- Aerial photos
- Geophysics

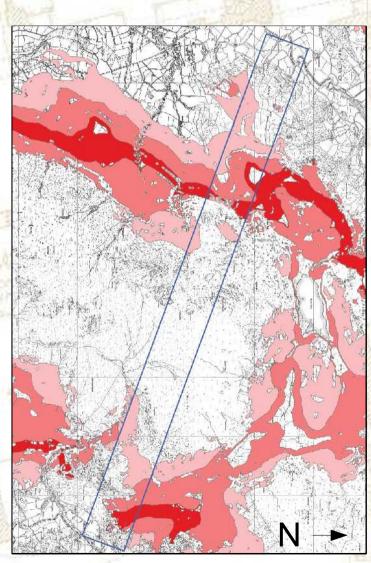


- Landscape surveys
- Historic maps
- Aerial photos
- Geophysics
- Site plans
- Artefact distributions



- Landscape surveys
- Historic maps
- Aerial photos & geophysics
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- Finds





- Landscape surveys
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- Finds
- Analysis



Legacy: ArcGIS and AutoCAD

• Pros

- Easier to find staff
- Wide support base
- Lots of extra features



Cons

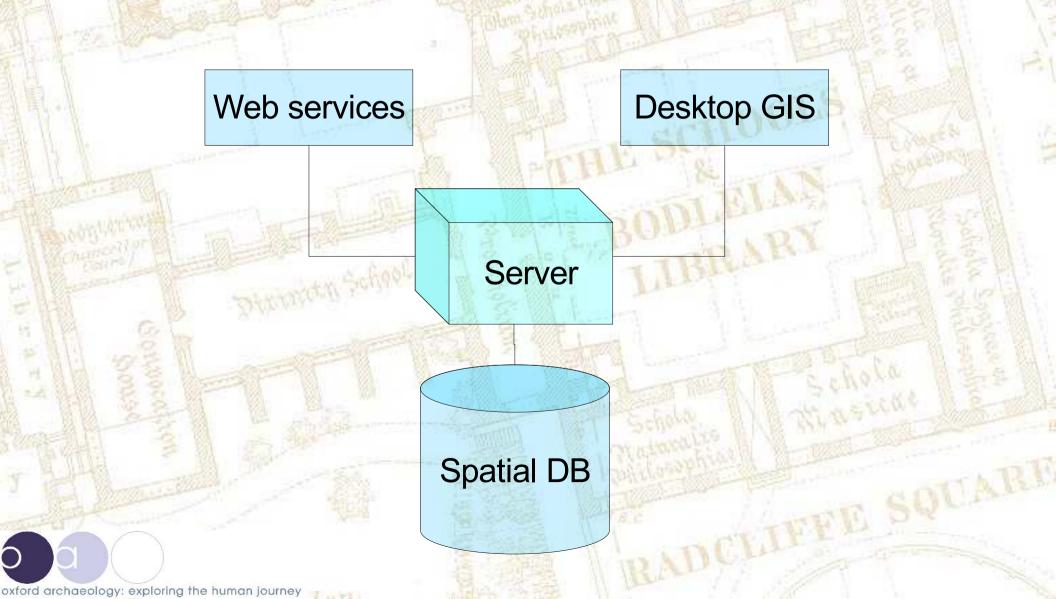
- Cost (but CHEST agreement)
- Cross-formatting
- Interoperability
- Backwards compatibility
- Published standards

Autodesk



oxford archaeology: exploring the human journey

A Spatial Data Infrastructure?



The Challenges

- Choice
- O verlap
- Standards
- Updatability
- Functionality
- Staff Training
- Documentation
- Changing specs
- Legacy migration
- Independent review
- Platform dependence
- File structures/formats



The Big Question

How do you get the BIG

picture?

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3 Proposals

An independent reporting webgroup

An abstract SDI framework

Generic models



