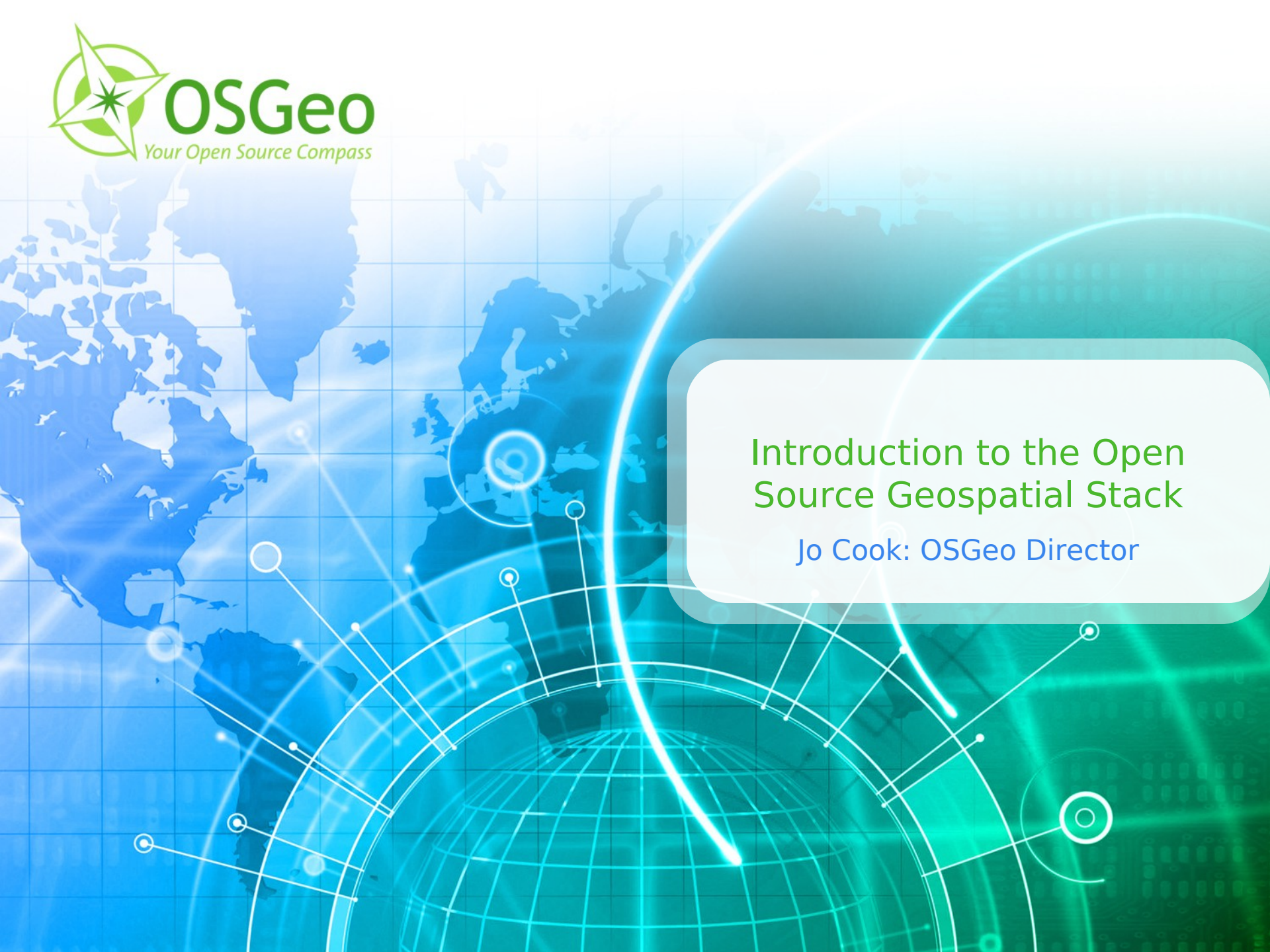


Introduction to the Open Source Geospatial Stack

Jo Cook: OSGeo Director

Talk Overview

- What is Open Source?
- What is OSGeo?
- What are the key components of the open source geospatial stack?

10 things you should know about open source software...

Paraphrased and reorganised from Directions Magazine (http://www.directionsmag.com/articles/ten-things-you-need-to-know-about-open-source-geospatial-software/233177

“Open source software” refers to any application delivered with an open source license.

An open source license must meet the definition developed by the Open Source Initiative.

Open source software is usually written by a community rather than a development team associated with a single software company.

Software developers and software users mix and match open source and proprietary software all the time.

Open source and open standards are not the same thing

Open source and open data are not the same thing

Implementing open source software may cost money

The opposite of open source is closed source or proprietary software, not commercial software

OSGeo is **the** body for open source geospatial software

OSGeo
Your Open Source Compass

Open source software is “just” software.

Open source misconceptions

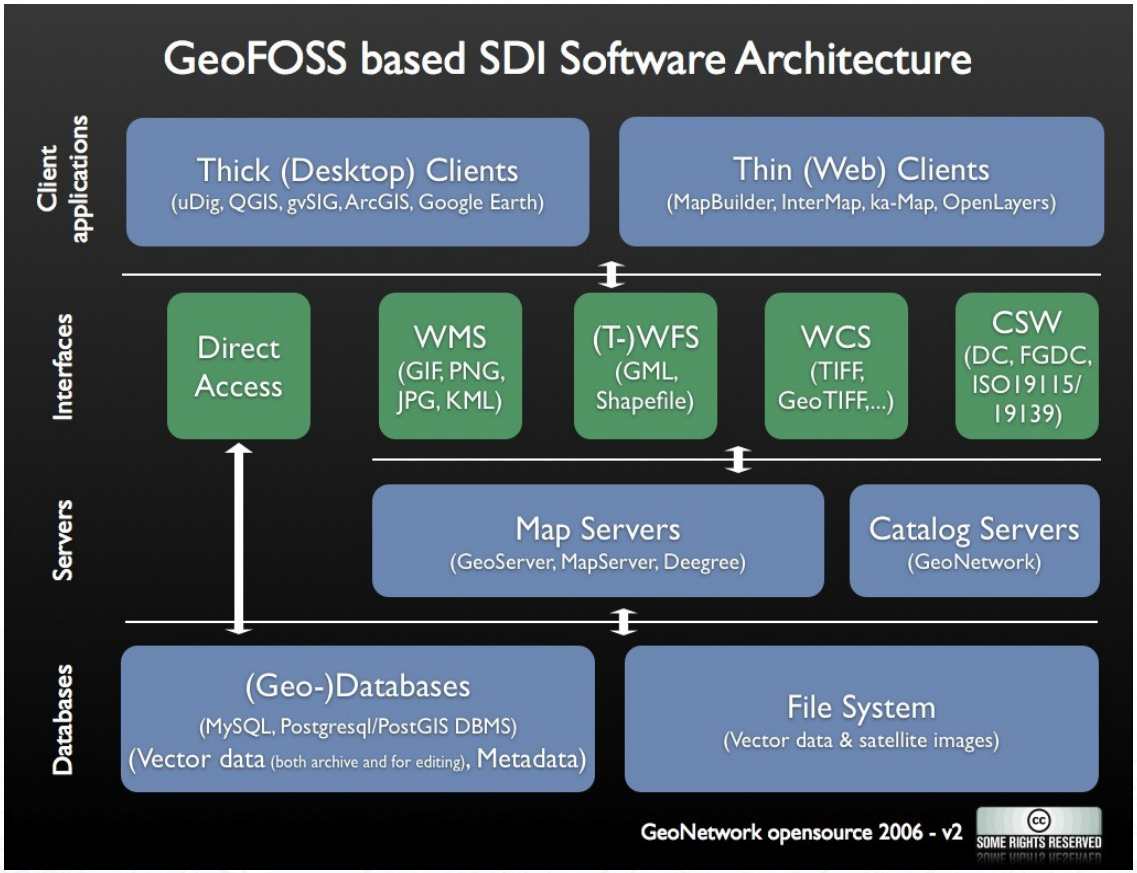
- It's not secure
- It's hard to install
- It's not professional/proprietary
- There's no support
- There are hidden costs
- There must be a catch!

Open source software is “just” software.

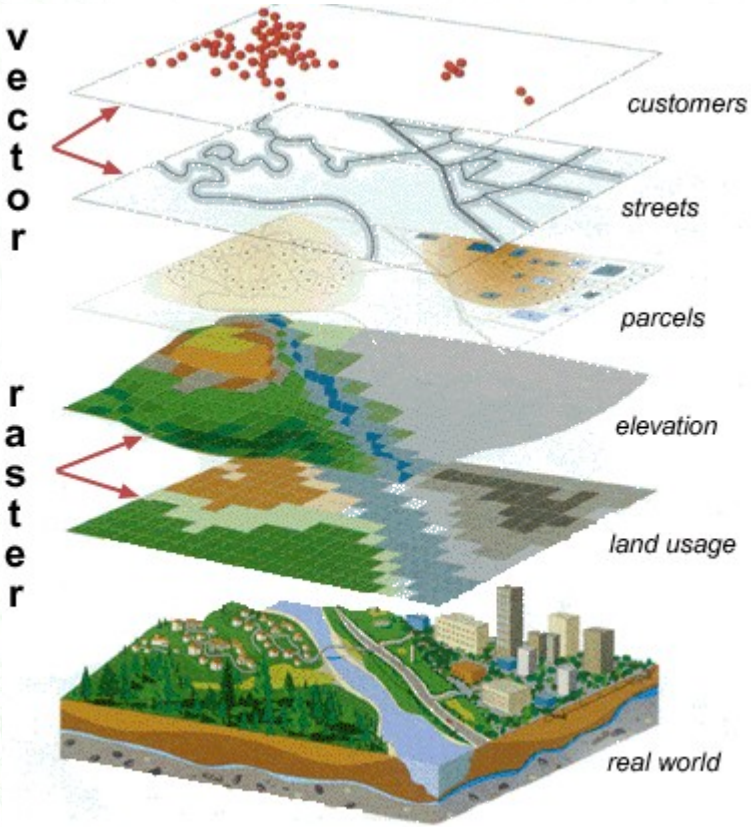
OSGeo Mission Statement

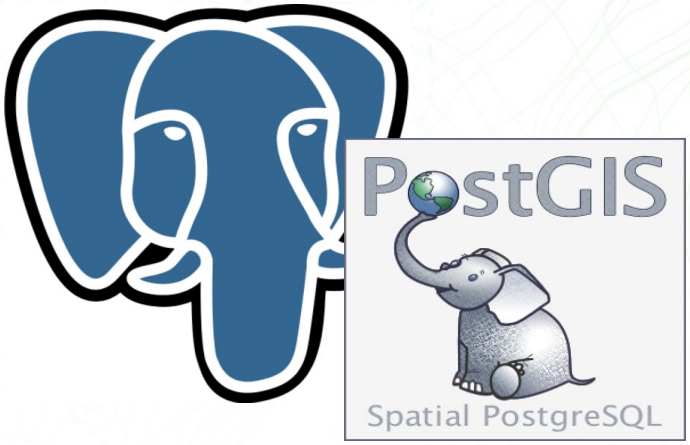
To support the collaborative development of open source geospatial software, and promote its widespread use.

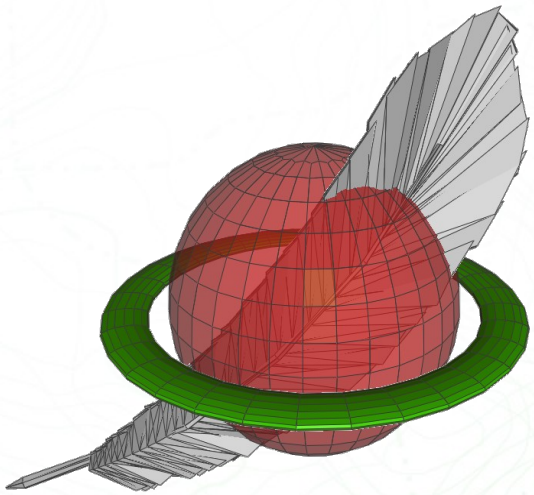
The Geospatial Stack



Data

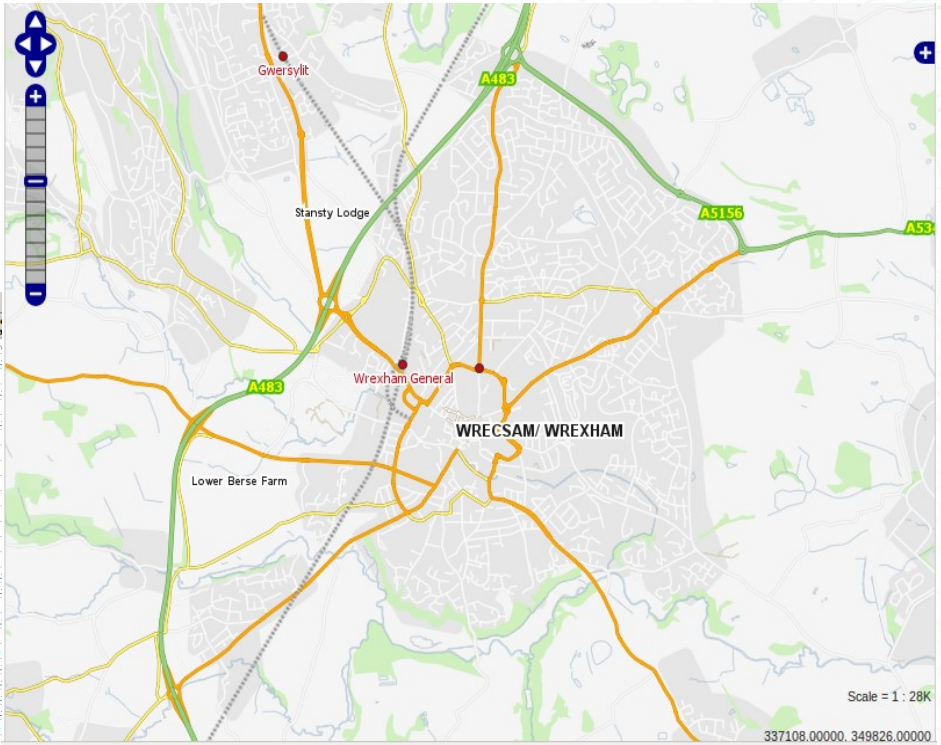

vector
raster
customers
streets
parcels
elevation
land usage
real world


PostGIS
Spatial PostgreSQL



OSGeo
Your Open Source Compass

Map Servers



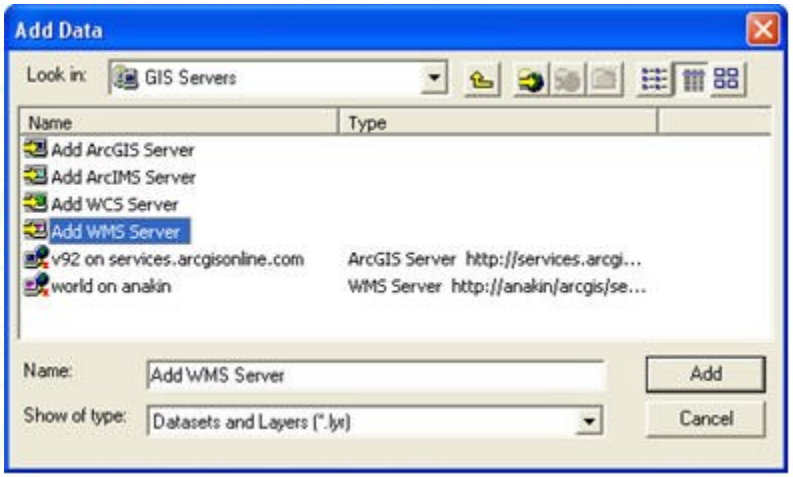
100 rows

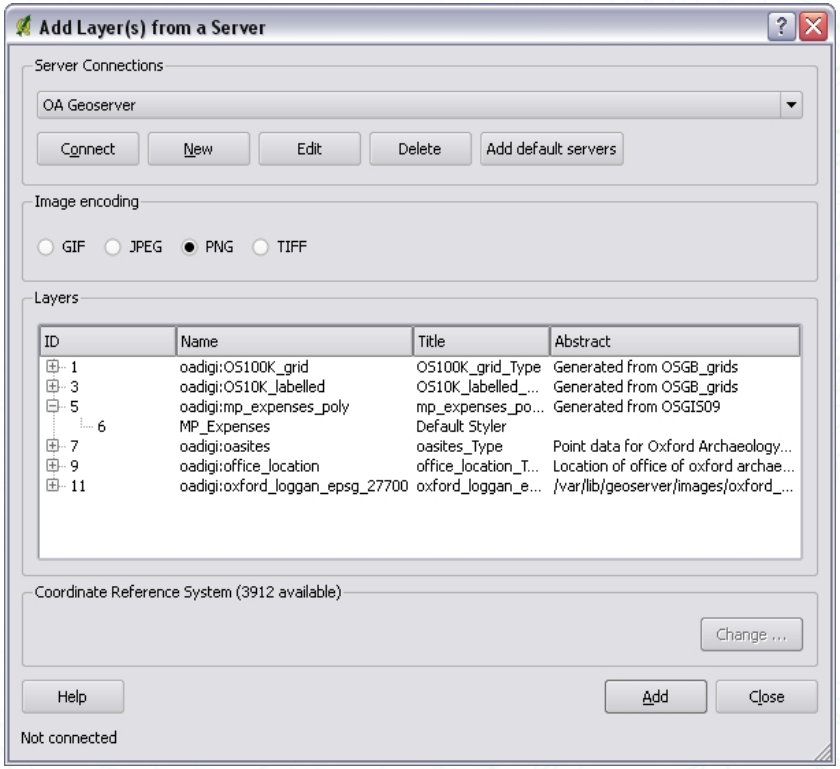
ogc_fid [PK] serial	wkb_geomet geometry	fid character(20	featurecode integer	version integer	versiondate character(10	theme character va	calculatedare double precis	changedate character va	reasonforcha character va	descriptivegr character va	descriptivet character va
1	01030000203	osgb1000000	10111	6	2006-06-27	{Land}	5085.759904	{2001-05-17	{New,Modifi	{"Natural E	{"Rough Gr
2	01030000203	osgb1000000	10053	5	2006-06-27	{Land}	293.179984	{2000-11-19	{New,Attrib	{"General S	{"Multi Su
3	01030000203	osgb1000000	10172	7	2006-06-27	{"Roads Tra	263.147552	{2000-11-19	{New,Attrib	{"Road Or T	
4	01030000203	osgb1000000	10053	6	2006-06-27	{Land}	562.457488	{2000-11-19	{New,Reclas	{"General S	{"Multi Su
5	01030000203	osgb1000000	10056	14	2007-09-12	{Land}	2145.758048	{2000-11-19	{New,New,Re	{"General S	
6	01030000203	osgb1000000	10053	5	2006-06-27	{Land}	238.325056	{2000-11-19	{New,Attrib	{"General S	{"Multi Su
7		osgb1000000	10183	6	2006-06-27	{"Roads Tra	387.438112	{2000-11-19	{New,Reclas	{Roadside}	
8		osgb1000000	10167	48	2010-03-29	{Rail}	55944.97499	{2000-11-19	{New,Attrib	{Rail}	
9		osgb1000000	10056	12	2007-09-12	{Land}	1576.66872	{2000-11-19	{New,Modifi	{"General S	
10	01030000203	osgb1000000	10167	5	2006-06-27	{Rail}	1451.566224	{2000-11-19	{New,Reclas	{Rail}	
11		osgb1000000	10183	13	2007-09-12	{"Roads Tra	2805.730416	{2000-11-19	{New,Reclas	{Roadside}	
12	01030000203	osgb1000000	10167	5	2006-06-27	{Rail}	231.82304	{2000-11-19	{New,Reclas	{Rail}	
13		osgb1000000	10056	11	2007-09-12	{Land}	18916.67702	{1990-08-03	{New,New,At	{"General S	
14	01030000203	osgb1000000	10167	6	2006-06-27	{Rail}	150.814224	{2000-11-19	{New,Reclas	{Rail}	
15	01030000203	osgb1000000	10056	8	2006-06-27	{Land}	4386.308336	{2000-11-19	{New,Reclas	{"General S	
16	01030000203	osgb1000000	10053	7	2006-06-27	{Land}	124.97904	{2000-11-19	{New,Attrib	{"General S	{"Multi Su
17	01030000203	osgb1000000	10053	5	2006-06-27	{Land}	210.309664	{2000-11-19	{New,Attrib	{"General S	{"Multi Su
18		osgb1000000	10183	6	2006-06-27	{"Roads Tra	507.526384	{2000-11-19	{New,Modifi	{Roadside}	
19	01030000203	osgb1000000	10053	6	2006-06-27	{Land}	313.358528	{2000-11-19	{New,Reclas	{"General S	{"Multi Su
20		osgb1000000	10056	13	2007-09-12	{Land}	61210.50665	{2000-11-19	{New,New,Re	{"General S	
21		osgb1000000	10203	16	2006-06-27	{Water}	79065.63529	{2000-11-19	{New,Attrib	{"Tidal Wat	{Foreshore
22	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	187.634336	{2000-11-19	{New,Modifi	{"General S	{"Multi Su
23	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	149.655408	{2000-11-19	{New,Modifi	{"General S	{"Multi Su
24	01030000203	osgb1000000	10053	5	2006-06-27	{Land}	885.394736	{2000-11-19	{New,Reclas	{"General S	{"Multi Su
25	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	130.18952	{2000-11-19	{New,Modifi	{"General S	{"Multi Su
26	01030000203	osgb1000000	10203	5	2006-06-27	{Water}	3356.561456	{2000-11-19	{New,Attrib	{"Tidal Wat	{Foreshore
27	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	149.221888	{2000-11-19	{New,Modifi	{"General S	{"Multi Su
28	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	181.200848	{2000-11-19	{New,Modifi	{"General S	{"Multi Sur	Multiple	50
29	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	8.537408	{2000-11-19	{New,Modifi	{"General S	{"Multi Sur	Multiple	50
30	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	283.334368	{2000-11-19	{New,Attrib	{"General S	{"Multi Sur	Multiple	50
31		osgb1000000	10203	6	2006-06-27	{Water}	54206.41102	{2000-11-19	{New,Attrib	{"Tidal Wat	{Foreshore}	Natural	50
32	01030000203	osgb1000000	10053	4	2006-06-27	{Land}	23.44568	{2000-11-19	{New,Modifi	{"General S	{"Multi Sur	Multiple	50

GeoServer

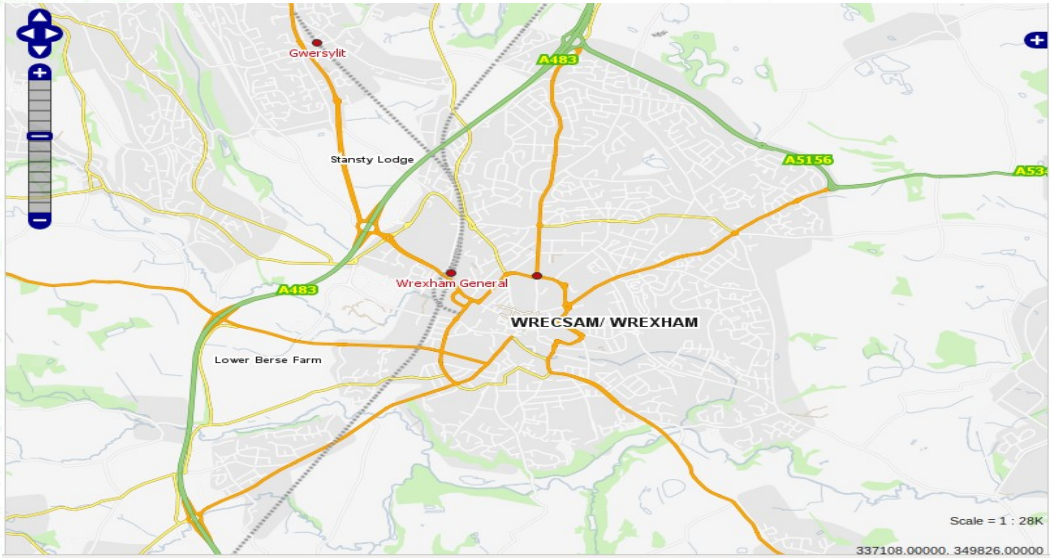
MapServer
open source web mapping

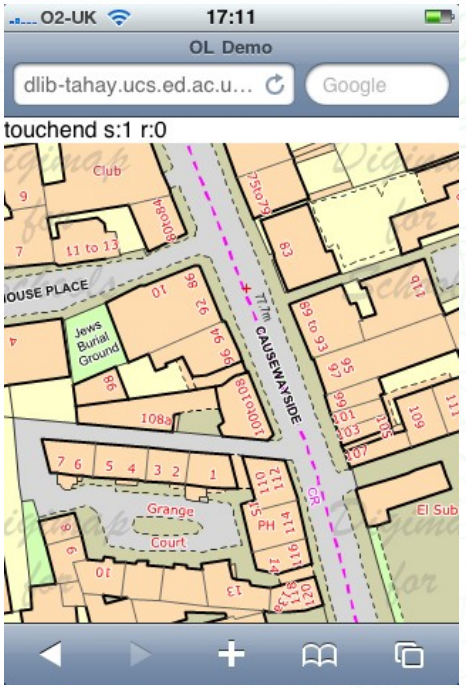
Web Services





Web Clients





OpenLayers™

mapfish

Desktop Clients

OSGeo
Your Open Source Compass
Thank You!
www.osgeo.org