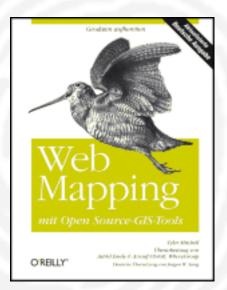# Fueling High Caliber Careers
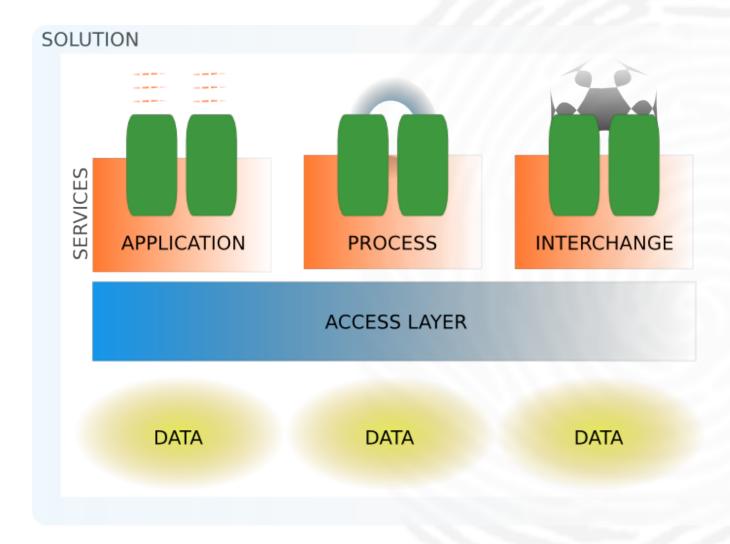## OSGeo & Open Source

Tyler Mitchell
1-May-2008

Personal Introduction

- Geographer
- GIS Professional
- Author, Web Mapping Illustrated
- Open Source Geospatial Foundation (OSGeo) Executive Director & Charter Member

Software Stack

OSGeo Open Source Project Stack

Desktop	Metadata	Web
GRASS GIS	GeoNetwork	Mapbender
gvSIG		MapBuilder
OSSIM	Processing API	MapGuide
Quantum GIS	GEOS	MapServer
		OpenLayers

Data Access APIs

FDO - GDAL/OGR - Geotools

Free Geodata

Project Stats
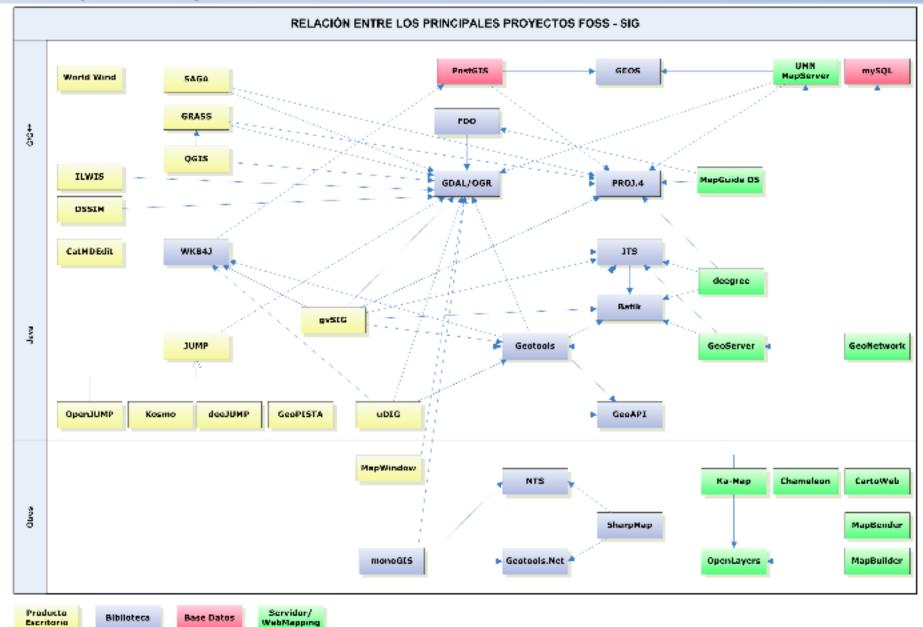
- ## From ohloh.net
  - Missing gvSIG and deegree

Replacement Cost of your Stack

This calculator estimates how much it would cost to hire a team to write each project from scratch. The cost is the sum of each project cost. More »
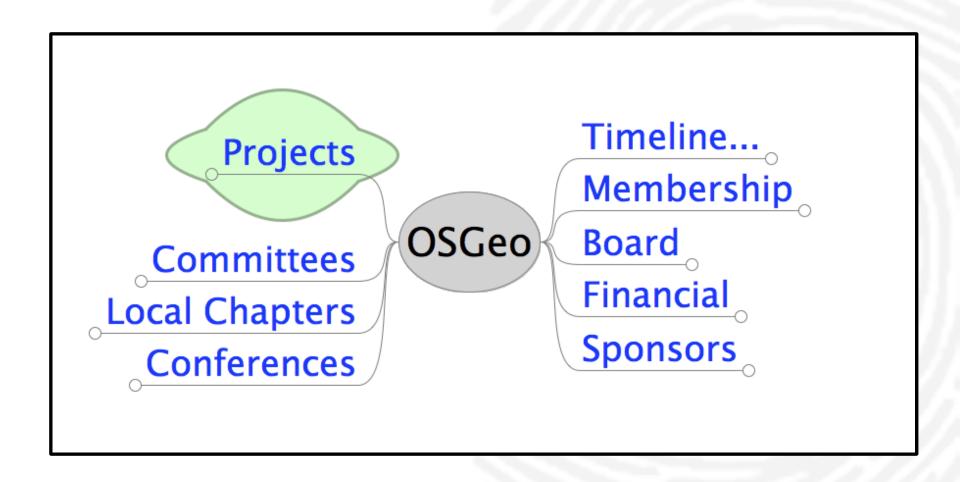
Include	Markup And Code
Codebase	5,450,649
Projects	14
Contributors	200
Effort (est.)	1474 Person Years
Avg. Salary	$ 55000 year
	$ 81,072,382

*http://www.ohloh.net/stacks/151/report

RELACIÓN ENTRE LOS PRINCIPALES PROYECTOS FOSS - SIG

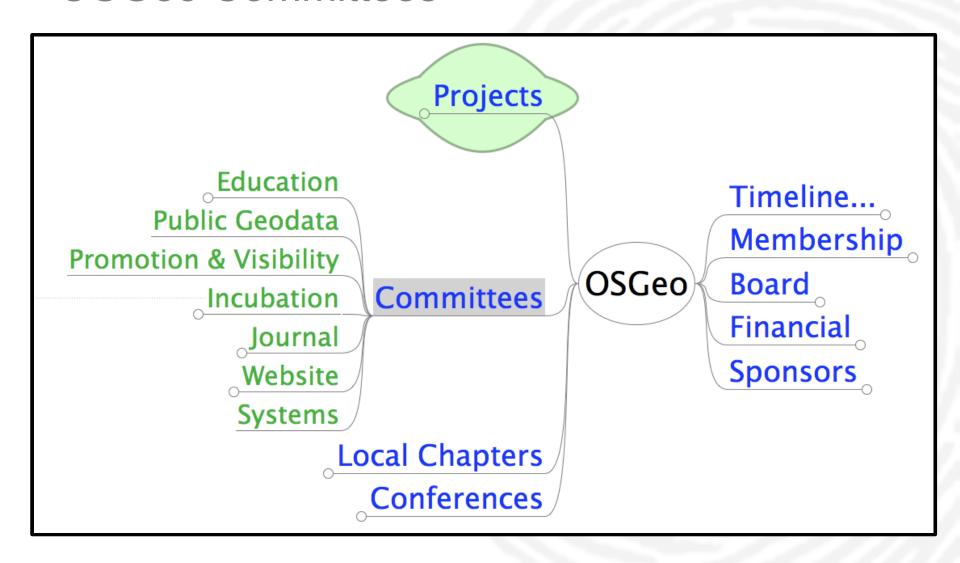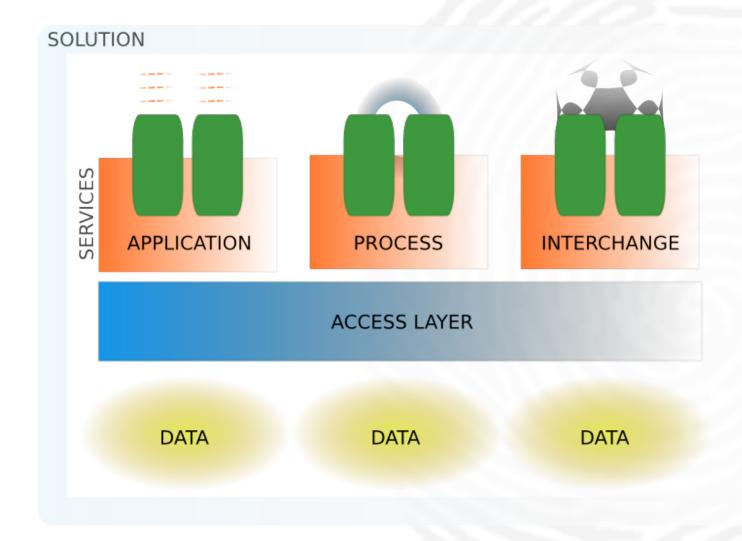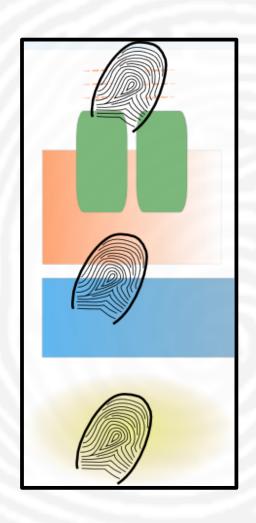# OSGeo Organisation

OSGeo Committees

Behind The Stack

What Holds Your Project Together?

Human Role

- Collect / maintain data
- Transport info.
- Build apps
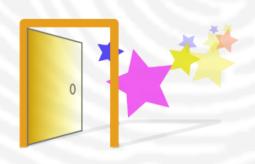- Implementing standards
- Users

Critical role but
easily overlooked

Project Success & Quality

- Quality depends on capability
  - Limited by your abilities & staff
  - Breadth of skills/experience required
- Need agility and an eye to the future
  - standards
  - platforms
  - data issues
  - what's next?

Help Wanted

Why Open Source Helps

Employ**ers**

- Broaden your project possibilities
- Diversify technology dependencies
- Encourage enthusiasm from communities
- Invest in your team – keep them/find them
- Flexibility as a *perk*

Why Open Source Helps

Employ*ees*

- – Build skills of interest – at home, school
- – Learn on the job
- – Develop a lifelong professional toolkit
- – Make your skills portable – e.g. from job-to-job
- – Show you are keen

Beyond Open Source

- Open standards (OGC)
- Complex architectures – db, geo, web...
- Platform independence
- Future reliability / re-use
- Black box suspicion – "*more than one way*"

Being In-Demand

- Broaden skills
- Diversify projects
- Be flexible
- Know standards
- Invest in others while building capacity
- Build projects with less lock-in

Tools for the Future

- Databases
- Geospatial analysis
- Mapping
- Operating systems
- Web hosting
- Web services
- Communication technology
- ....?

Conclusion

- Be in demand
  - Skilled help hard to find
  - Diverse skills are invaluable
- Build the skills and team for the future
- Mixing in open source can help

Looking Ahead

- High quality information management
- Powerful SDI's
- Meeting standards requirements

Impossible without good staff and tools

Sustaining Sponsors

Autodesk

Supporting Sponsors

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INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

INGRES

Associate Sponsors

camptocamp

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1Spatial

WhereGroup

FIRSTBASESOLUTIONS

Contact

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OSGeo UK Chapter Meeting to Follow

See you at **FOSS4G 2008** Cape Town, end of September

1Spatial Conference 2008

www.1spatial.com