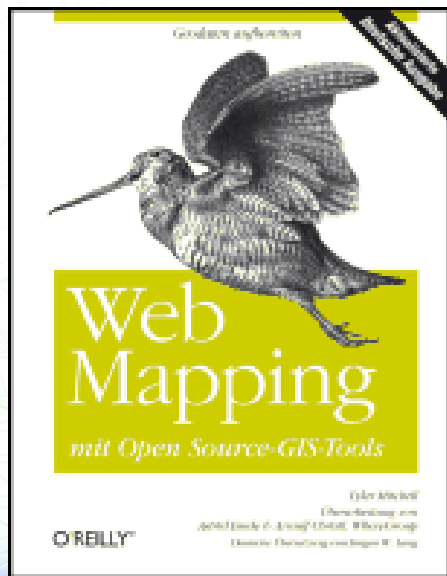


## **OSGeo's Open Source Mapping Stack**

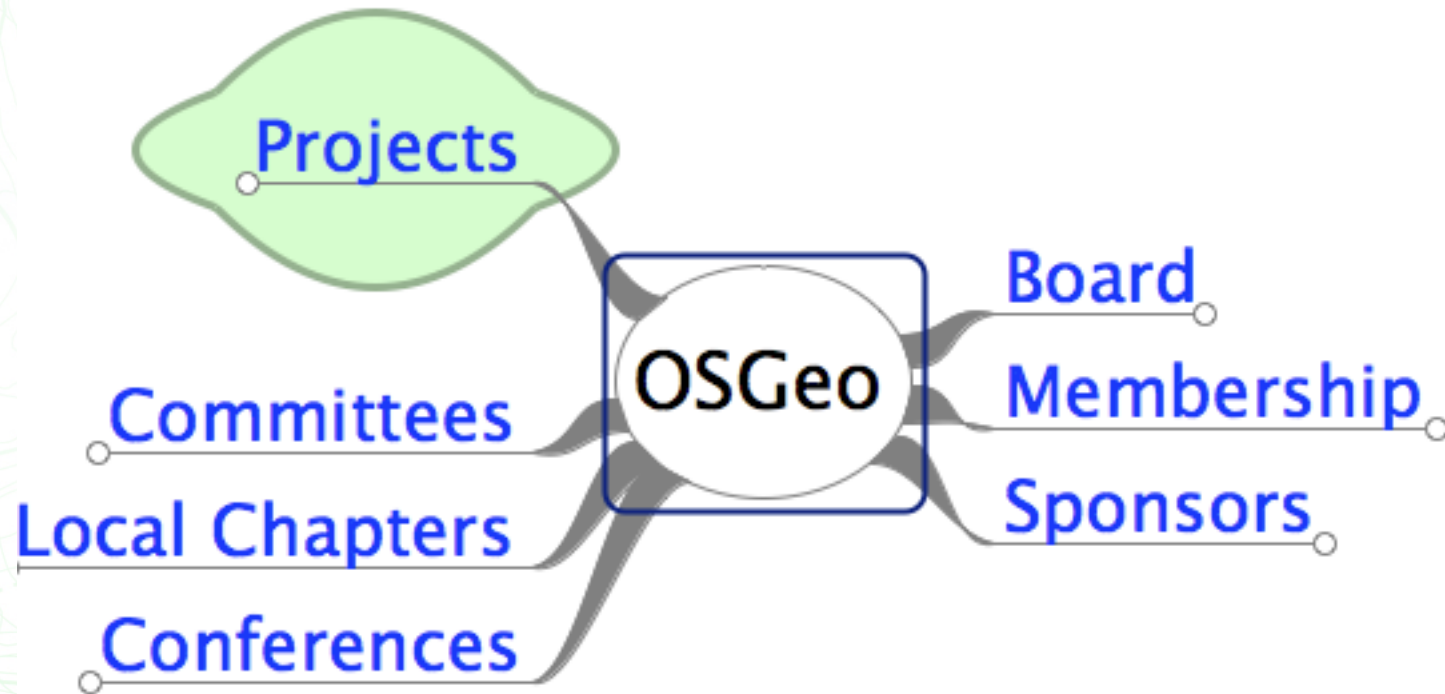
*Beyond Features & Tools*

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





# OSGeo's Ecosystem





# Geospatial Data Components

Spatial data access API

Databases

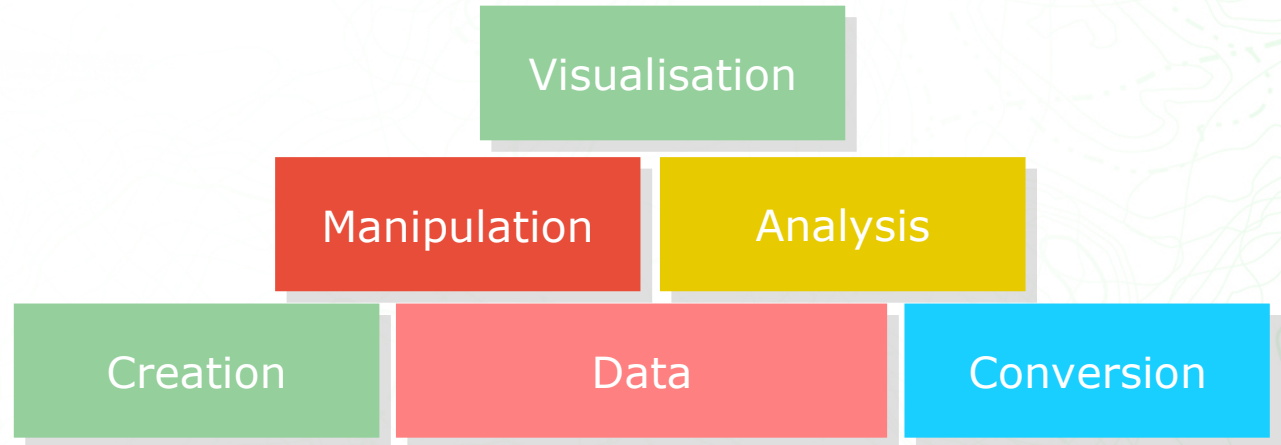
Files

Real-time  
apps



# Functional Components

Mapping  
Spatial Analysis  
(GIS)  
Data  
Management



# OSGeo Project Stack

Web Client

MapBuilder – OpenLayers

deegree  
Mapbender

MapFish  
MapGuide  
MapServer

GeoNetwork

Web Server

Desktop

GRASS GIS - gvSIG – OSSIM - Quantum GIS

Libraries

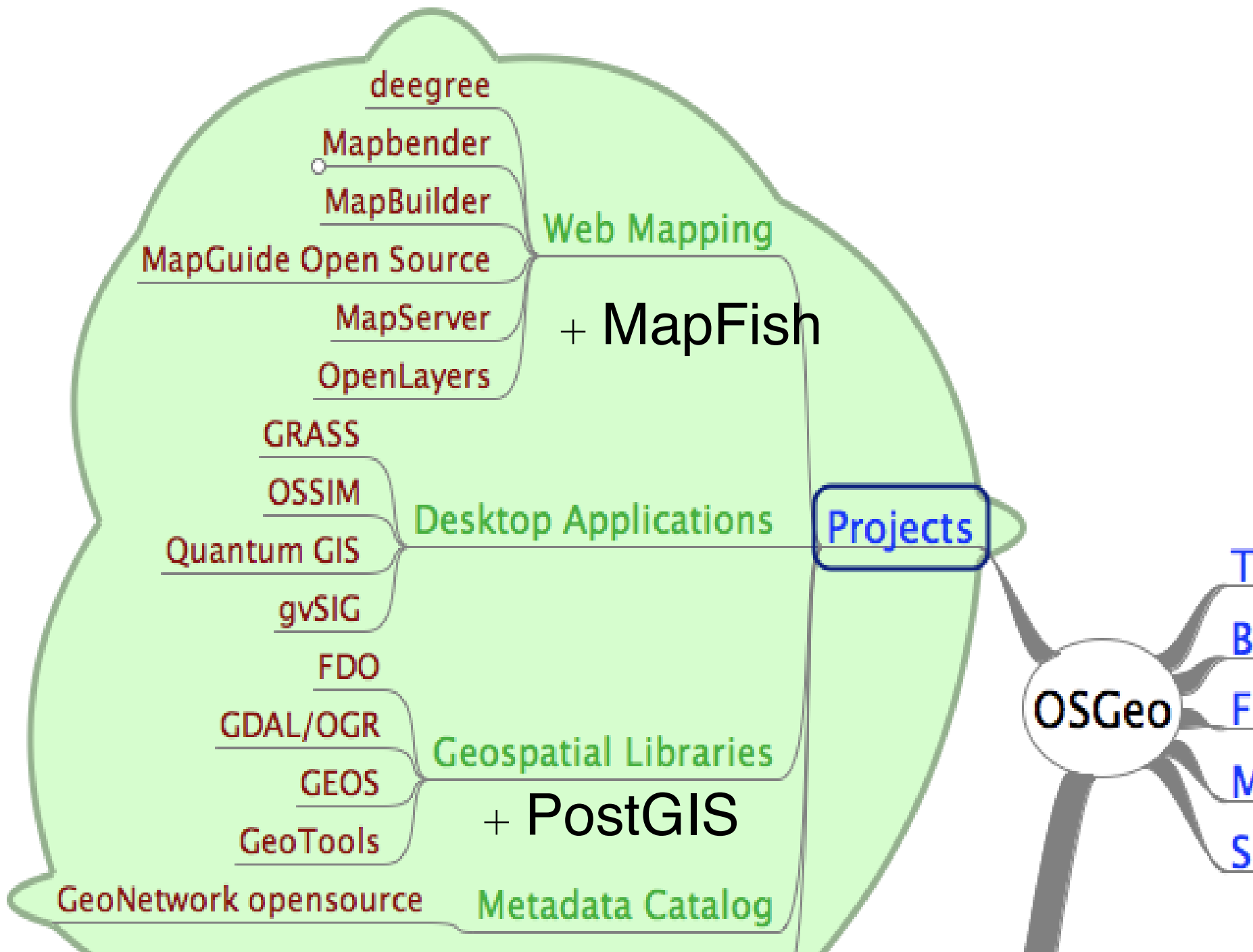
GDAL / OGR (C++, etc)  
GeoTools (Java)  
FDO (C++)

OSSIM - GEOS

Database

PostGIS  
& Other DB

Data Files  
(Imagery, vector, topography)



deegree

Mapbender

MapBuilder

MapGuide Open Source

MapServer

OpenLayers

Web Mapping

+ MapFish

GRASS

OSSIM

Quantum GIS

gvSIG

Desktop Applications

Projects

FDO

GDAL/OGR

GEOS

GeoTools

Geospatial Libraries

+ PostGIS

GeoNetwork opensource

Metadata Catalog

OSGeo

T

B

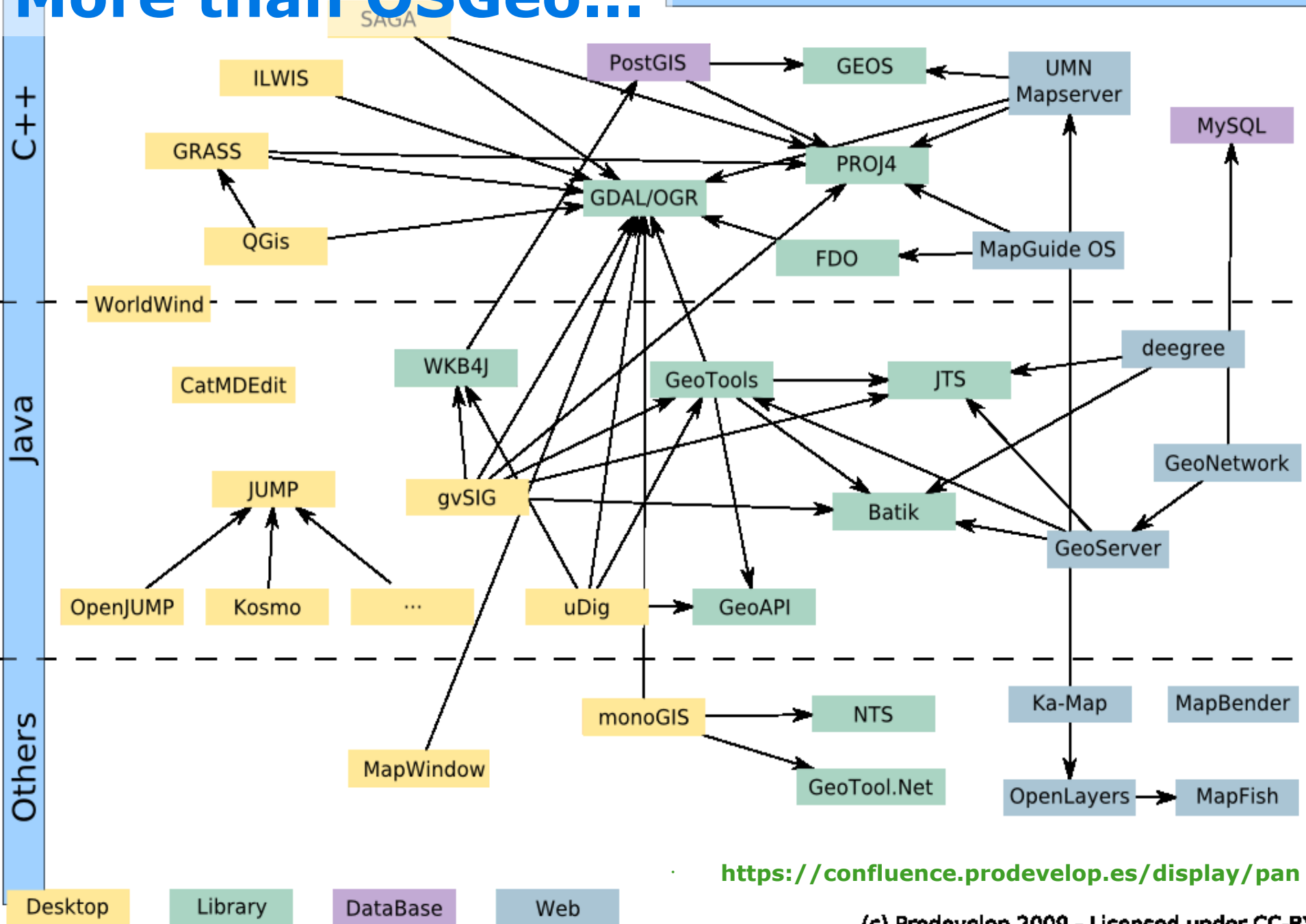
F

M

S

# More than OSGeo...

Relationships between FOSS4G projects

























# Project Development Statistics

Updated: 2-Nov-2008

<http://www.ohloh.net/stacks/151>

Project (link to stats page) 	Codebase Lines of code 	Contributors 	Effort (person years) 	Est. cost \$USD 
<a href="#">deegree</a> 	475,756	20	125	6,880,114
<a href="#">gvSIG</a> 	1,797,359	62	506	27,804,278
<a href="#">GEOS</a> 	93,369	14	23	1,252,806
<a href="#">Feature Data Objects (FDO)</a> 	770,748	22	212	11,679,154
<a href="#">GeoNetwork opensource</a> 	359,225	11	93	5,122,974
<a href="#">GeoTools</a> 	1,472,845	46	410	22,548,581
<a href="#">GDAL</a> 	619,706	26	170	9,357,931
<a href="#">Quantum GIS</a> 	193,174	34	50	2,761,972
<a href="#">OSSIM</a> 	525,942	21	143	7,846,712
<a href="#">GRASS GIS</a> 	518,049	61	140	7,682,948
<a href="#">OpenLayers</a> 	68,695	12	17	913,757
<a href="#">MapServer</a> 	108,306	32	27	1,499,454
<a href="#">MapGuide Open Source</a> 	360,959	34	95	5,240,110
<a href="#">Community MapBuilder</a> 	141,198	24	35	1,921,633
<a href="#">Mapbender</a> 	261,029	23	68	3,713,822
<b>2009 YTD Total</b>	<b>10M+ 7,766,360</b>	<b>547</b>	<b>442</b>	<b>51% this year</b>

# Meeting Your Software Needs

- **Required Features**
  - > Interoperability and standards\*\*
  - > Continuous improvement
  - > Open development process (OSI)
  - > Community support

# Meeting Your Software Needs

- **Bonus features**
  - > Relationship to other projects
  - > Modular options
  - > Proprietary integration

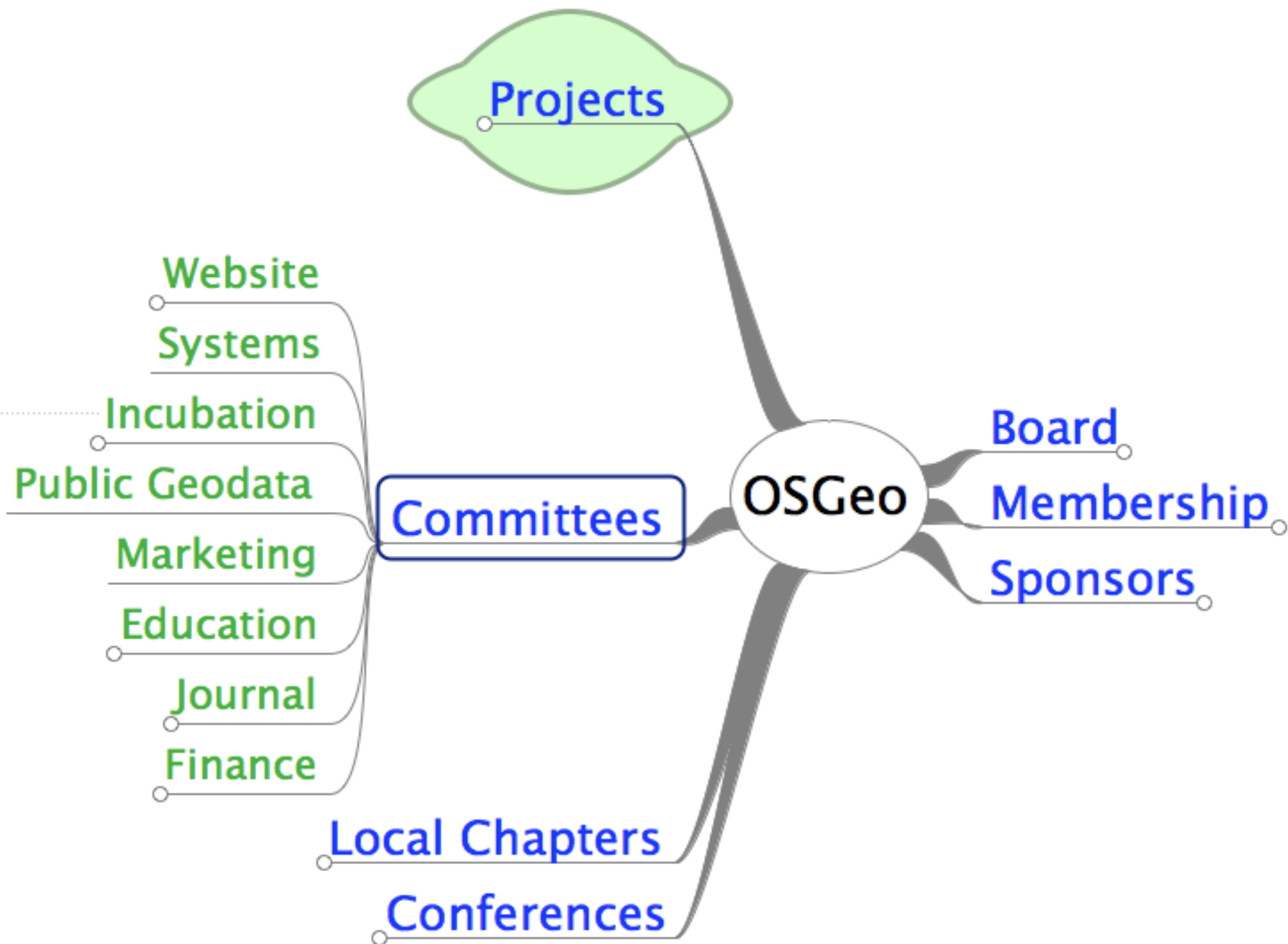


# Build Internal Capabilities

- > Bypassing restrictive licensing
- > Build a professional toolkit
- > Expand your offerings
- > Custom fit/flexible solutions delivery

# Community Involvement

- **Wide range of supporters**
  - > Advocates, enthusiastic power users
  - > Developers, writers, testers
  - > Sponsors!







OSGeo

Local Chapters

In Formation

- Africa
- Australia/New Zealand
- Brazil
- Canada
- Czech
- Deutsch Language
- Dutch Language
- European Network →
- Finland
- Greek
- Indonesia
- Israel (Hebrew Language)
- Portugal
- Romania
- Sudamerica
- Scotland
- Taiwan
- Thailand
- California (USA)
- More...

Projects

Committees

Local Chapters

FOSS4G 2006

FOSS4G 2007

FOSS4G 2008

FOSS4G 2009

FOSS4G 2010

FOSS4G 2011 ?

Conferences

Cape Town, South Africa

Sydney, Australia

Barcelona, Spain



## In 2010

- **Join Us!**
  - > Engage other professionals
  - > Support others and be supported
    - Local chapters, ad-hoc events
  - > Learn and share at FOSS4G conference

# FOSS4G 2010

Free and Open Source Software  
for Geospatial Conference

## Barcelona

6-9 September, 2010



## Sustaining Sponsor

# Autodesk

## Supporting Sponsors

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INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

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a celartem Company



## Contact Me

52.1534 N, 122.1498 W 

**TYLER MITCHELL**

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Executive Director

[OSGeo.org](http://OSGeo.org)

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[tmitchell@osgeo.org](mailto:tmitchell@osgeo.org)

Tel +1-250-303-1831

