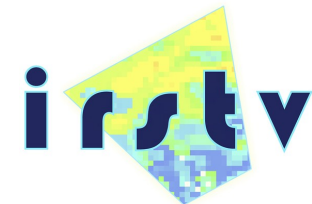


# OPEN SOURCE OPPORTUNITIES IN GIS

## Summer School

28<sup>th</sup> June - 9<sup>th</sup> July, 2010. Girona

Partners Contribution



Partner Collaboration



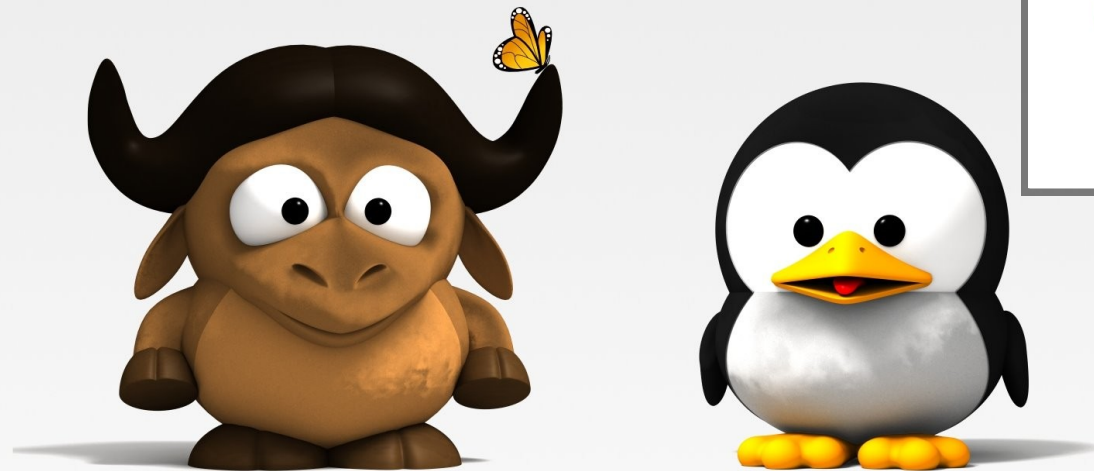
Erasmus IP

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

# Session: Introduction to Free and Open Source Software

GNU/LINUX

Free as in Freedom



OSGeo

# ¿What is Free and OS Software?



A software, to be considered as Free Software should guarantee<sup>1</sup>:

**Freedom 0:** Freedom to run the program for any purpose

**Freedom 1:** Freedom to study how the program works, and change to make it do what you wish.

**Freedom 2:** Freedom to redistribute copies so you can help your neighbor

**Freedom 3:** Freedom to redistribute copies of your modified versions to others. (Benefit for the communities)

## Freedom + Source Code

<sup>1</sup> According to *FSF (Free Software Foundation)* in: <http://www.gnu.org/philosophy/free-sw.html>

# Free not as in free beer

## Free Software is a matter of freedom, not price



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# GNU General Public License, v3, 2007

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<http://www.gnu.org/licenses/gpl.html>



**“If I have seen further  
it is only by standing  
on the shoulders of  
giants”**

**Isaac Newton, 1976**



# In summary...

- \* **4 freedoms: use, modify, redistribute copies, redistribute changes**
- \* **F1 & F3 need to access the Source Code**
- \* **Is not the same:**
  - \* **Free Software**
  - \* **Open Source Software**
  - \* **Private Software**

## Resources:

- \* **The Cathedral and the Bazaar (E.S.Raymond, 1999)**
- \* **Free Software, Free Society (Richard M. Stallman)**

# Free and Open Source Software for Geospatial

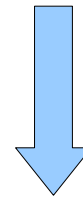


<http://www.osgeo.org/>

“The Open Source Geospatial Foundation (OSGeo), is a non-profit non-governmental organization whose mission is to support and promote the collaborative development of open geospatial technologies and data”

OSGeo (“the leader organization that promotes OS for Geospatial”) provides:

- \* **FINANCIAL**
  - \* **ORGANIZATIONAL**
  - \* **LEGAL**
- } **SUPPORT**



... to the Open Source  
Community

# OSGeo is:



**13 + 7**

**Community of  
Communities**



**Common voice**

**Share ideas, experiences & knowledge and increase  
visibility...**

# OSGeo as a Unity

**GFOSS Unites different type of people**  
**GFOSS unites different type of projects**

# OSGeo as a Unity

**GFOSS Unites different type of people:**

\* **Programmers**



\* **Governments**



\* **Business**

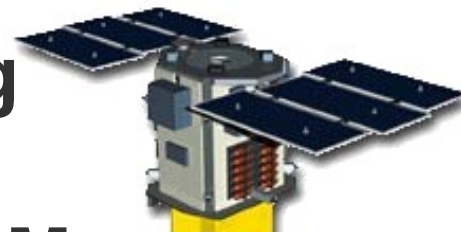
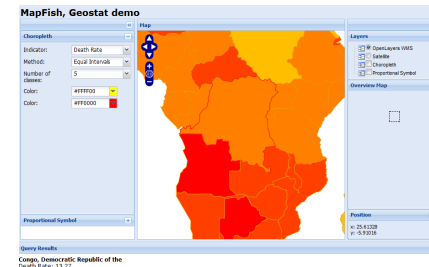


\* **Charities, NGO's... you**

# OSGeo as a Unity

**GFOSS Unites different type of projects:**

- \* **Web/Desktop Mapping**
- \* **Remote Sensing**
- \* **Enterprise Data Management**
- \* **Community**



# OSGeo projects in detail

**Data access libraries**

**Data analysis/processing libraries**

**Desktop GIS & image analysis**

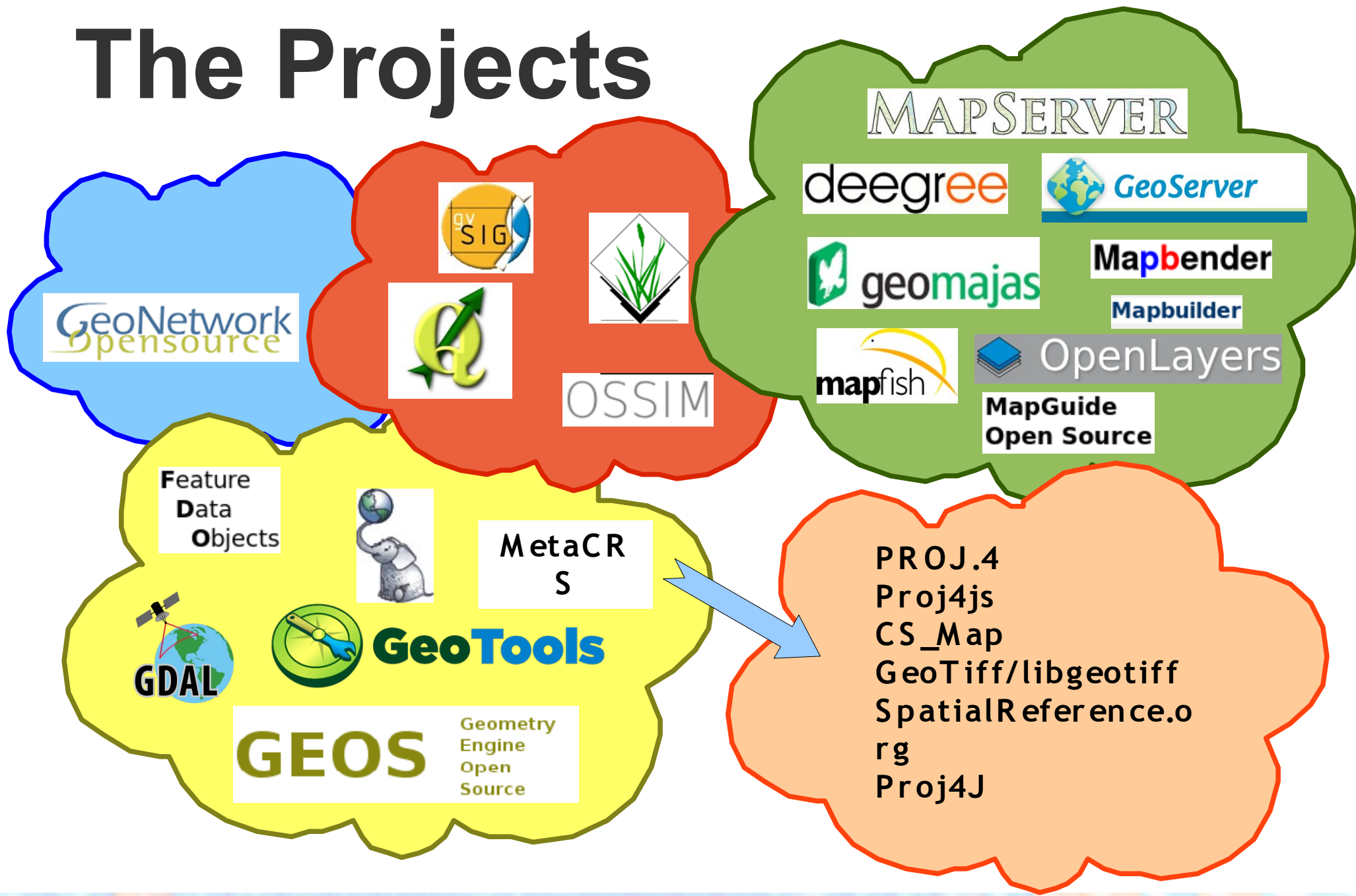
**Webmapping frameworks**

**Metadata Catalogues**

**... Open Standards ...**

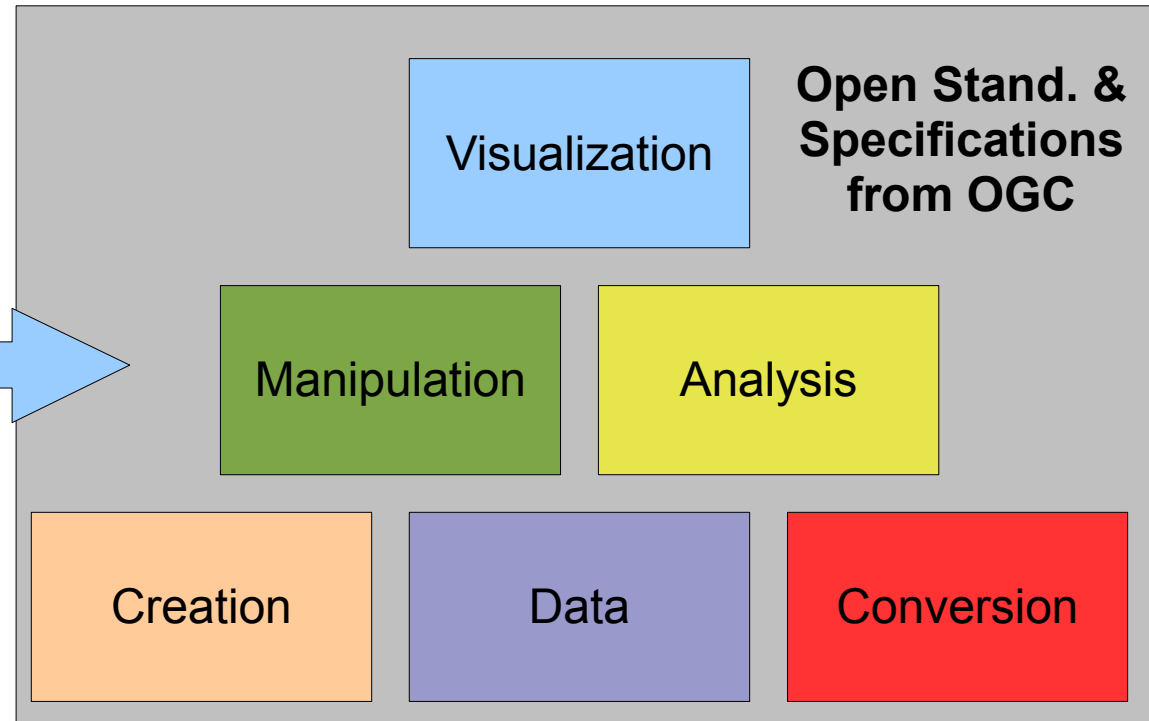
**Non software projects: Books, Education ,  
GeoData, Journal, Blog, Local Chapters, ...**

# The Projects



# Today's Toolkit

**Monolithic  
Black Box**



# Some numbers about OSGeo Projects (2009):

\* + 10 M

\* 547

\* ...and growing

# OSGeo on the net:

**Official Website:** <http://www.osgeo.org/>

**Wiki:** [http://wiki.osgeo.org/wiki/Main\\_Page](http://wiki.osgeo.org/wiki/Main_Page)

**Blog:** <http://planet.osgeo.org/>

**Mailing list:** [http://www.osgeo.org/content/faq/mailling\\_lists.html](http://www.osgeo.org/content/faq/mailling_lists.html)

**IRC:** <http://wiki.osgeo.org/wiki/IRC>

**Journal:** <http://www.osgeo.org/journal>

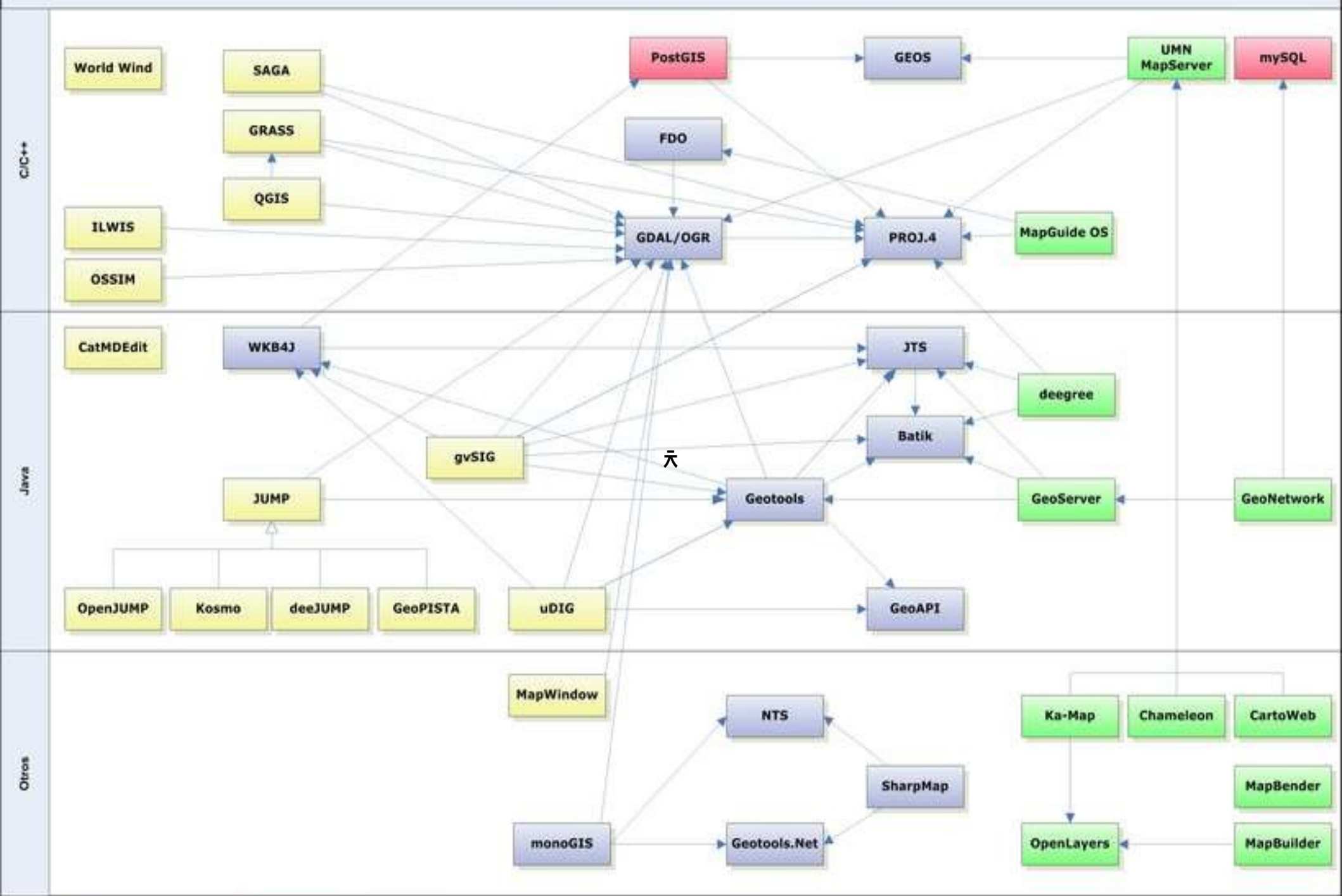
**Local Chapters:** <http://www.osgeo.org/content/chapters/index.html>

**LiveDVD:** <http://download.osgeo.org/livedvd/>

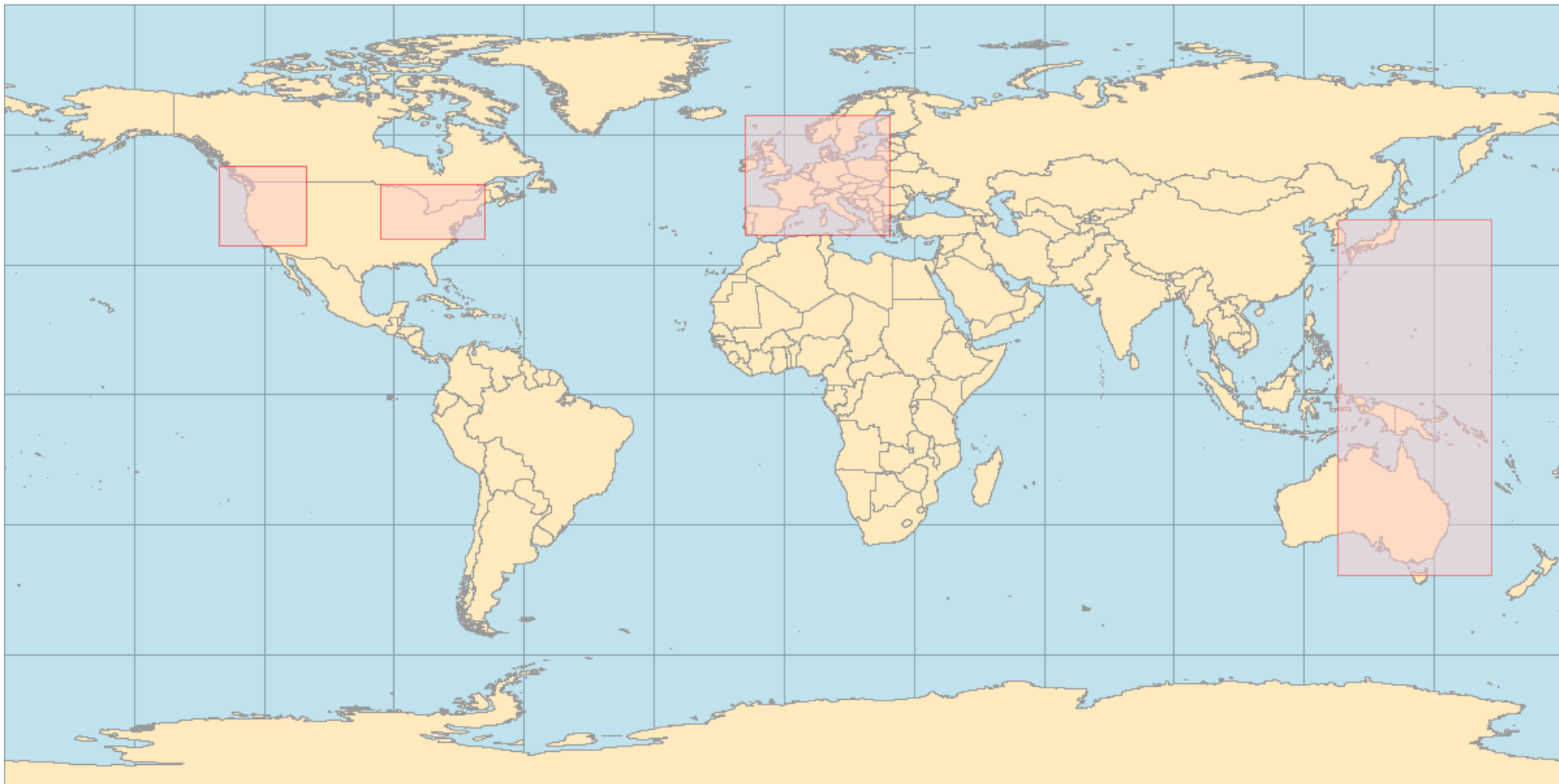
# **GFOSS - State of the Art: Projects & Relations**



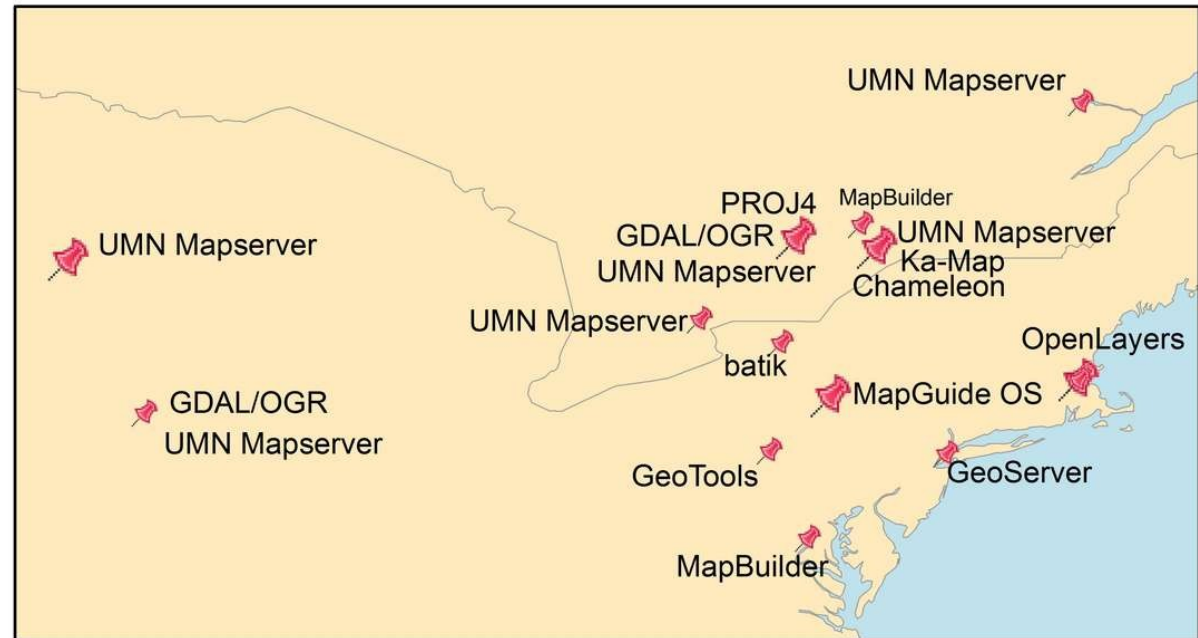
# RELACIÓN ENTRE LOS PRINCIPALES PROYECTOS FOSS - SIG



# Where?



# Where?



# Where?





FOSS4G 2010  
Barcelona  
SEP 6<sup>th</sup> - 9<sup>th</sup>

# The gathering of tribes in Barcelona...

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