



GeoSolutions

your one-stop-shop for geospatial open source software

Ing. Simone Giannecchini

Dott. Eleonora Fontana



Quick Facts

- **Founded in late 2006**
- **Expertise**
 - Image Processing, GeoSpatial Data Fusion
 - Java, Java Enterprise, C++, Python
 - JPEG2000, JPIP, Advanced visualization
 - Web Based Mashups, Mobile Solutions
- **Supporting/Developing FOSS4G projects**
 - No license cost, open codebase
 - MapStore, GeoServer, GeoNetwork
 - CKAN, GeoNode, GeoTools , ImageIO-Ext, JAI-Ext
- **Staff**
 - 14 full time – 12 Software Engineers/Architects



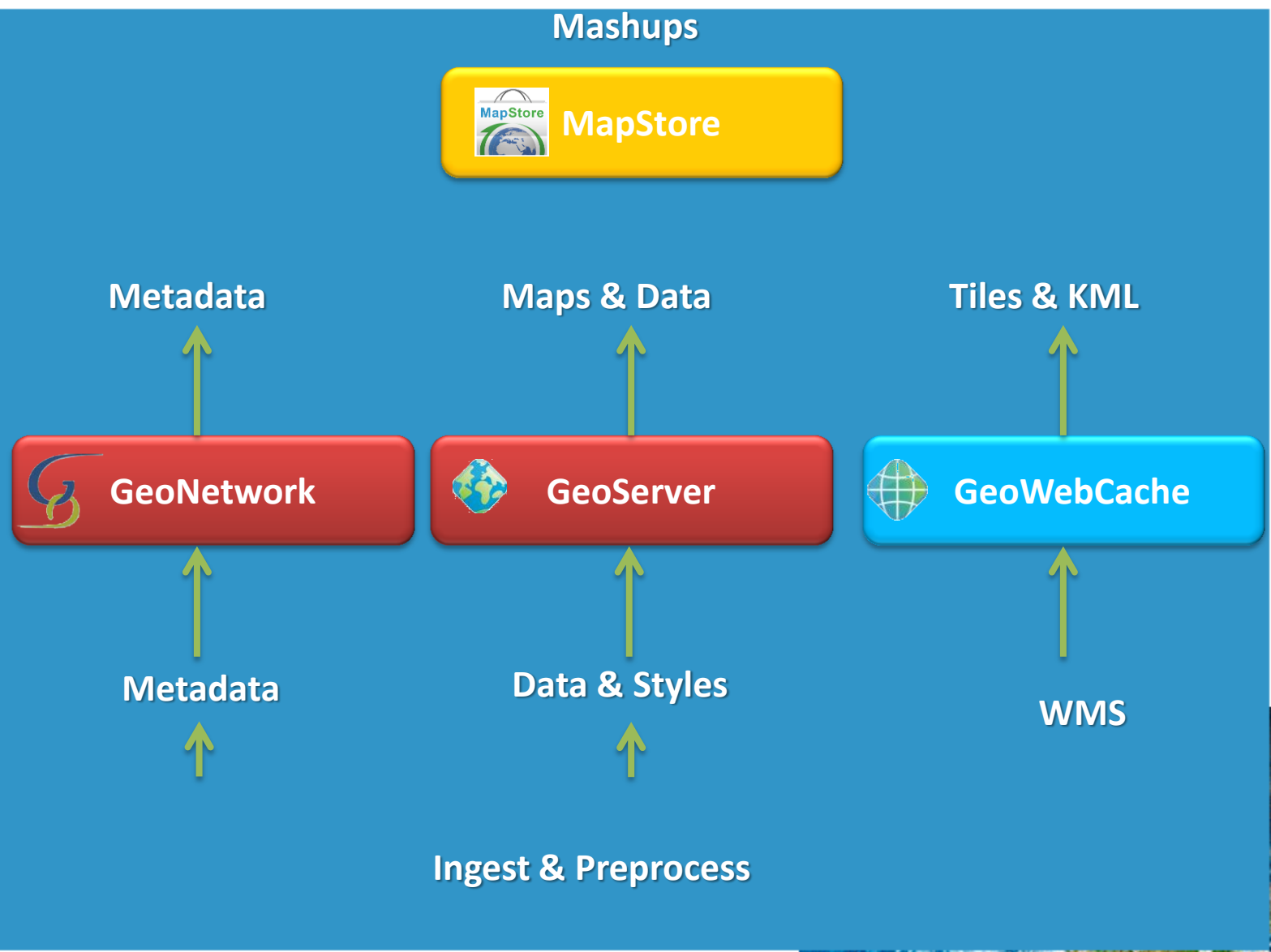
What we do

The screenshot displays a complex geospatial software interface with several key components:

- Top Bar:** Includes navigation options like "Imagery Available", "My Imagery", "Map View", "Use With", and "Supplemental Layers". A user profile for "Casey McCallar" is visible on the right.
- Search and Filter Panel (Left):** A search bar is followed by a filter menu with options: "Show less than 24 hours", "Show less than 7 days", "Show less than 30 days", "Show less than 6 months", "Show less than 1 year", and "Show all".
- Table of Contents (Middle-Left):** A list of map layers with checkboxes and expand/collapse icons. Layers include:
 - Gross Depositional Environment Maps
 - Minimum Non-Preservation Limits
 - Notes
 - Well and Outcrop Data
 - Formation
 - Max Regressive Surface picks
 - Sequence Boundary picks
 - Maximum Flooding Surface picks
 - Module Datasets
 - Geochronology
 - Petroleum Systems TOC
 - Petroleum Systems TOC Average
 - Reservoir Seal
 - Geodynamic Framework
 - Geodynamic Units
 - GDE Features
 - Drainage
 - Confidence
 - Highland Detail
 - Additional Lithology
 - Sedimentology
 - Depositional Environment
 - Primary Lithology

- Main Map Area (Right):** A large map showing a geographical region with a circular area of interest. A coordinate system is displayed at the bottom: "PRJ: North Pole 0°E (EPSG:1920) Longitude: -48.25, Latitude: 42.72". A scale of "1 : 91,420,944" is shown.
- MySnowMaps Panel (Bottom-Left):** A smaller map titled "val di rabbi - Mappa di altezza aggiornata al 11.12.2014". It features a color-coded legend for snow depth ranges:
- 2-5 cm (Yellow)
- 6-10 cm (Light Green)
- 11-30 cm (Green)
- 31-50 cm (Light Blue)
- 51-70 cm (Blue)
- 71-100 cm (Dark Blue)
- 101-150 cm (Purple)
- 151-200 cm (Dark Purple)
- 201-250 cm (Black)
- >250 cm (Dark Blue)
- LaMMA Panel (Bottom-Middle):** A panel for "CONSORZIO LaMMA" with a search bar and a list of layers under "Livelli". Layers include:
- Predefinito
- Stazioni
 - Pioggia cum. 15min (mm)
 - Pioggia cum. 1 h (mm)
 - Pressione a 1m (hPa) - freq. oraria
 - Vento - velocità (m/s) e direzione (°) h
 - Temperatura di rugiada (°C) freq. oraria
 - Umidità relativa (%) freq. oraria
 - Temperatura (°C) freq. oraria
- MODELLO
 - arw_3km_Temperature_height_above
- SATELLITE
- Limiti Mondiali
- Comuni Italia
- Province
- Regioni
- Stati
- Sfondo
 - None
 - Google Hybrid
 - Google Terrain
 - Google Roadmap
 - MapQuest OpenStreetMap
 - Open Street Map
 - Bing Aerial
- Temperature Graph (Bottom-Right):** A line graph titled "Temperatura (°C) freq. oraria" for "ARSIIA-Regione Toscana - POPPI - Quota: 419.0". The x-axis shows dates from Nov 11, 2013, to Nov 15, 2013. The y-axis shows temperature values from 0 to 15. A legend on the right indicates temperature ranges and their corresponding colors.

Our Products



Our Offer

- **FOSS Enterprise Support Services**

- Bug Fixing
- Support
- Customizations & New Features
- 5 packages → different types of needs

- **Professional Training**

- **End-To-End Projects (Integration)**

- Tell me what you need, I'll put it together for you

- **We take our core products and**

- Bend them, twist them, embed them
- Hammer them to make clients happy

- **FOSS4G Software is core for us**

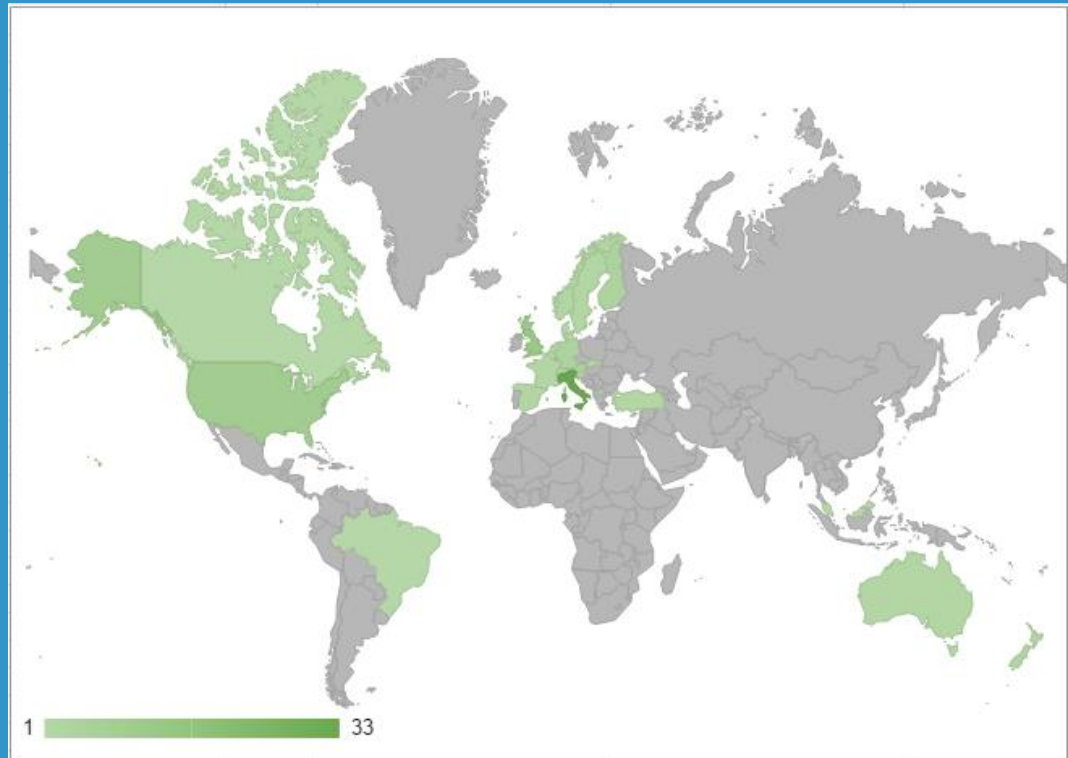
- Not simply use but develop and support



Clients

- UN FAO, UN WFP, World Bank, DLR, EUMETSAT, JRC, NATO CMRE
- City of Florence, City of Genoa, CSI-Piemonte
- DigitalGlobe, Airbus, Halliburton, MDA, etc...

ITALY	33
UNITED KINGDOM	13
UNITED STATES	10
AUSTRIA	5
GERMANY	4
NORWAY	2
SLOVENIA	1
AUSTRALIA	2
DENMARK	2
FRANCE	2
TURKEY	2
NEW ZEALAND	3
BELGIUM	1
SWITZERLAND	3
FINLAND	4
SLOVAKIA	1
SPAIN	2
SWEDEN	2
BRAZIL	1
BELIZE	1
NETHERLANDS	1
CANADA	1
MALAY SIA	1
MALTA	1
MACEDONIA	1
TOTAL	99



- 70%+ of 2015 Revenue made with non Italian organizations



Industries

Constructions
& Engineering

Real Estate

Smart
Mobility

Smart Cities

Earth
Observation

Meteorology
&
Oceanography

Defence

Natural
Resources

Emergency
Response

OpenData

PA &
Government

Utilities

Education

Research

Cultural
Heritage

Telecom

CloudSDI

- Cloud Spatial Data Infrastructure
- **WHY?** Explosion of Earth Observation Data
 - Landsat 8, Sentinel, Commercial Missions
 - Smallsat initiatives (PlanetLabs, SkyBox), Drones
 - Huge amount of data to manage and process
 - Crazy potential for innovation
- **SO?** Need to rethink current infrastructures
 - Democratizing EO Data management
 - Democratizing EO Data Processing
 - Lowering technical and financial barriers
 - Huge market potential (Precision Agriculture, Mining, O&G, Defence, ER...)
- **Competitors?** Many
 - Google, ESRI, Trimble, CartoDB, MapBox, PlanetLabs, Spaceknow

CloudSDI

- Cloud Spatial Data Infrastructure
- **WHY Us?**
 - Experience in bespoke solutions for satellite providers
 - Targeting also private clouds (Enterprise World)
 - Open Source components (OpenStack VS AWS)
 - Focus on international standards (OGC & ISO)
- **OK, now WHAT?**
 - Rethinking our products for a cloud approach
 - Enhance when needed, reimplement as needed
- **GOAL 1** → White Label, Cloud-ready, PAAS infrastructure for managing and serving access to EO data and products
- **GOAL 2** → Multitenant SAAS service for managing and serving access to EO data and products in public cloud (AWS)