



Tecnologías SIG en la nube



Universitat Oberta
de Catalunya



SIG en la nube
TFC actual
Ideas futuros trabajos

¿Qué trae la nube a los SIG?





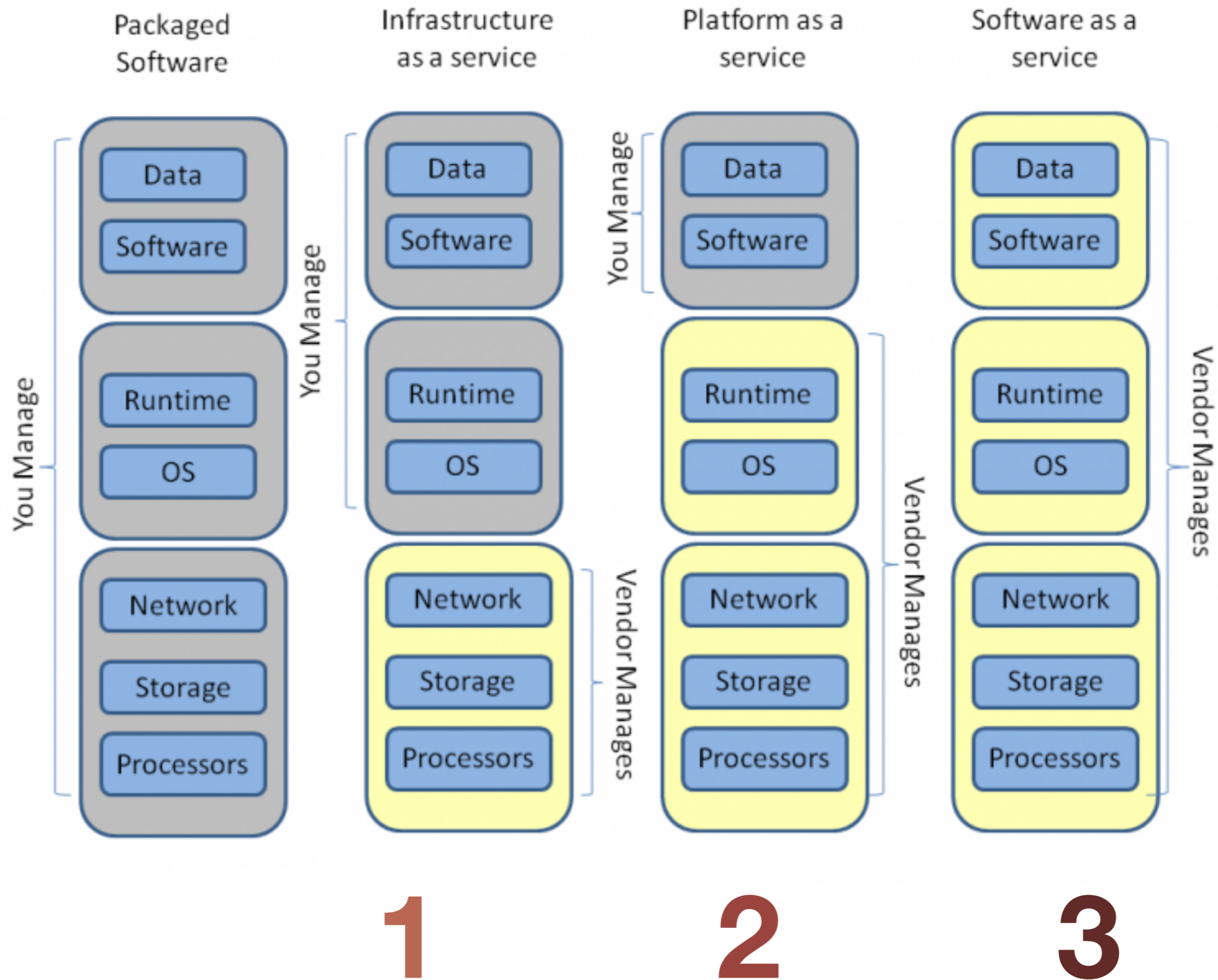
"Para un tecnólogo geospacial, los SIG en la nube pueden significar el ideal de datos siempre disponibles, siempre accesibles..."

Jack Dangermond,
Presidente de ESRI,
2012



Vale, ¿pero qué es la nube?

Tres modelos teóricos



A close-up photograph of a network switch or patch panel. Several blue Ethernet cables are plugged into the ports. One cable in the foreground has a blue label that reads "FLAT CABLE". The background is blurred, showing more of the network infrastructure and some red indicator lights.

1. Infraestructura como servicio (IaaS)

Amazon Elastic Compute Cloud (EC2)



AMIs con diversos Sistemas Operativos

2. Plataforma como servicio (PaaS)



IaaS + Geoserver y otros listos!



SKYGONE

theGISmarketplace.com

Plataformas publicación información geográfica





3. Software como servicio (SaaS)

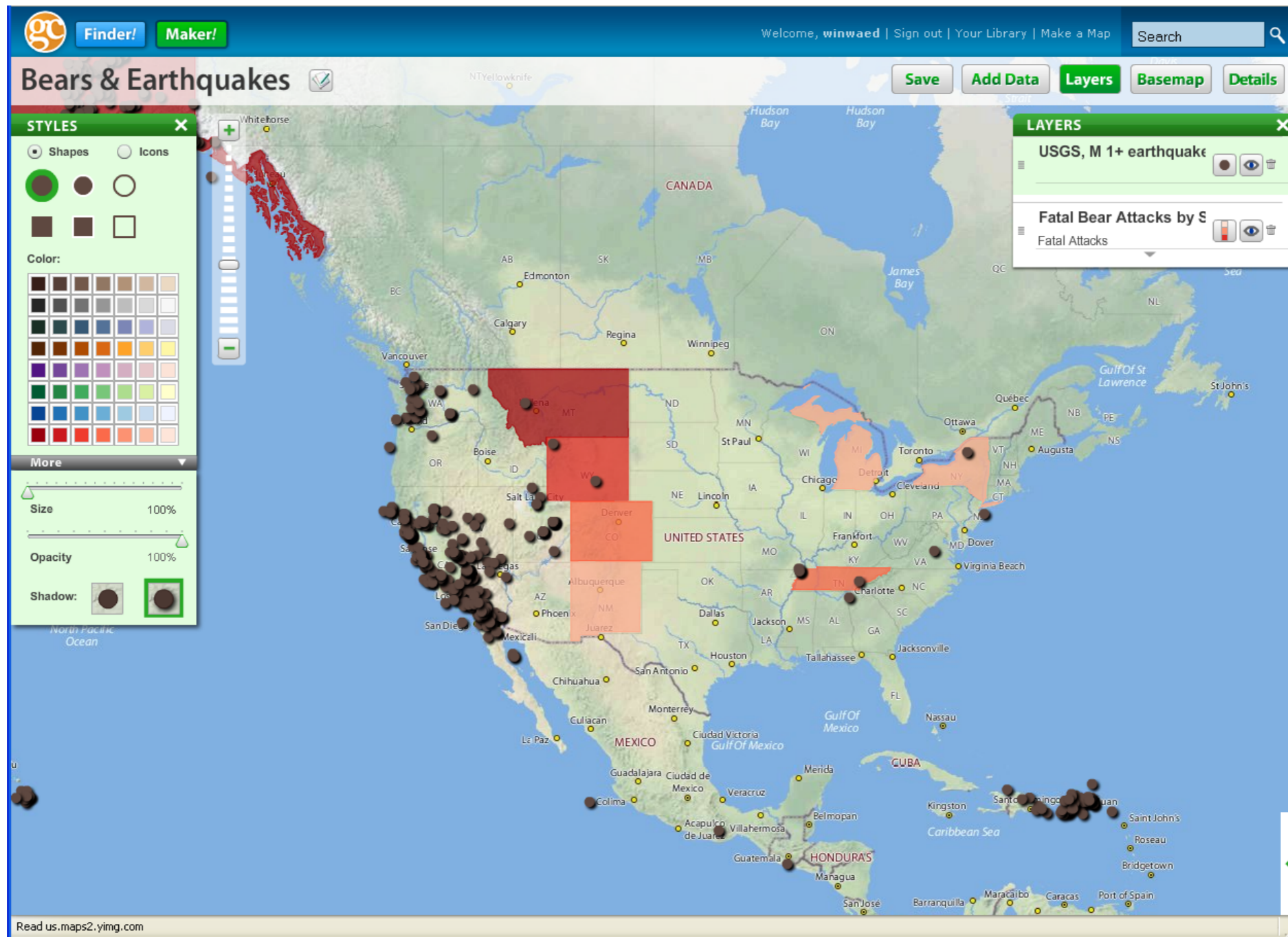
Google Maps y otros geoservicios





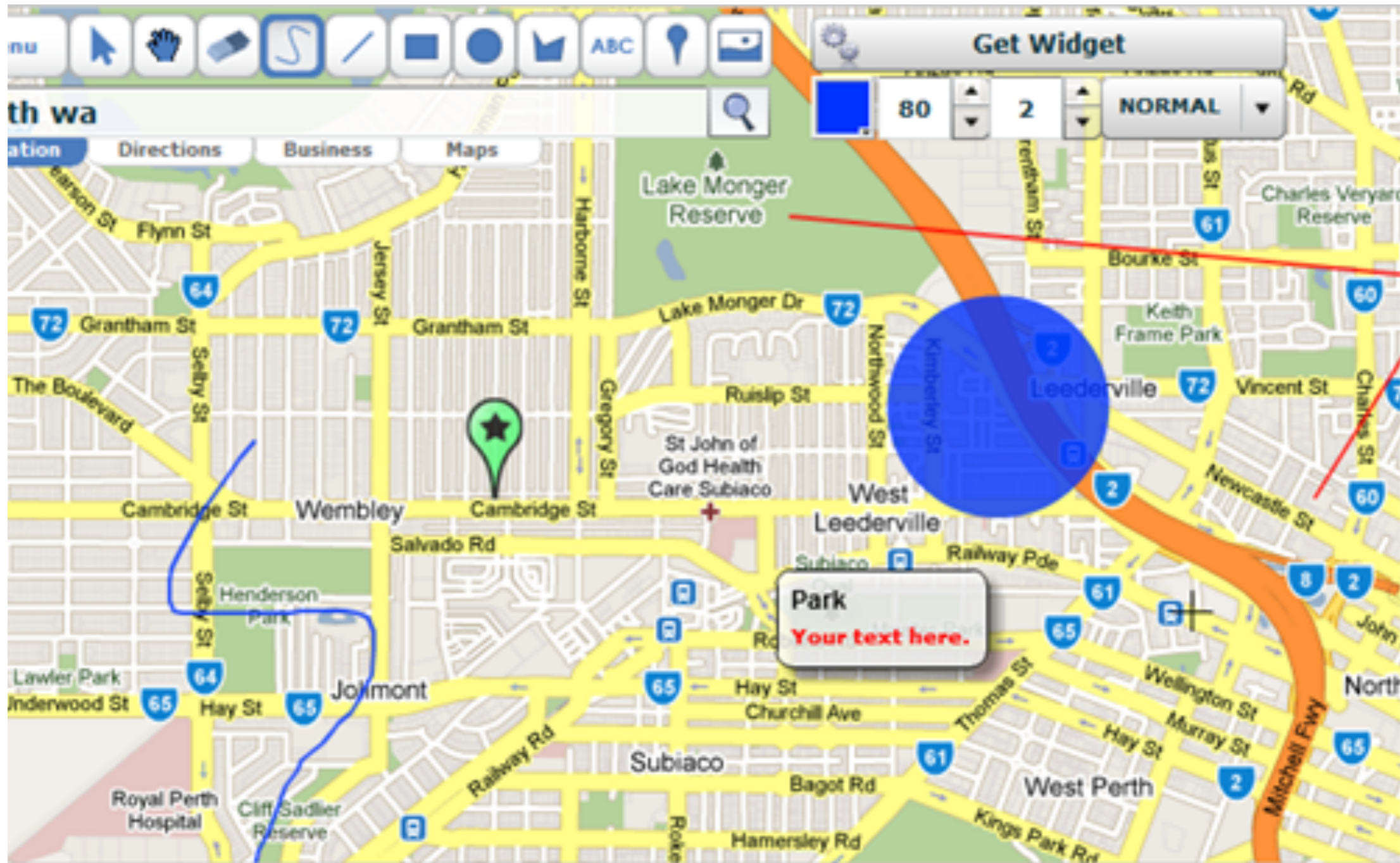
TFC Análisis de plataformas

GeoCommons



Pionera y con amplias funciones

ScribbleMaps



Compartir mapas anotados

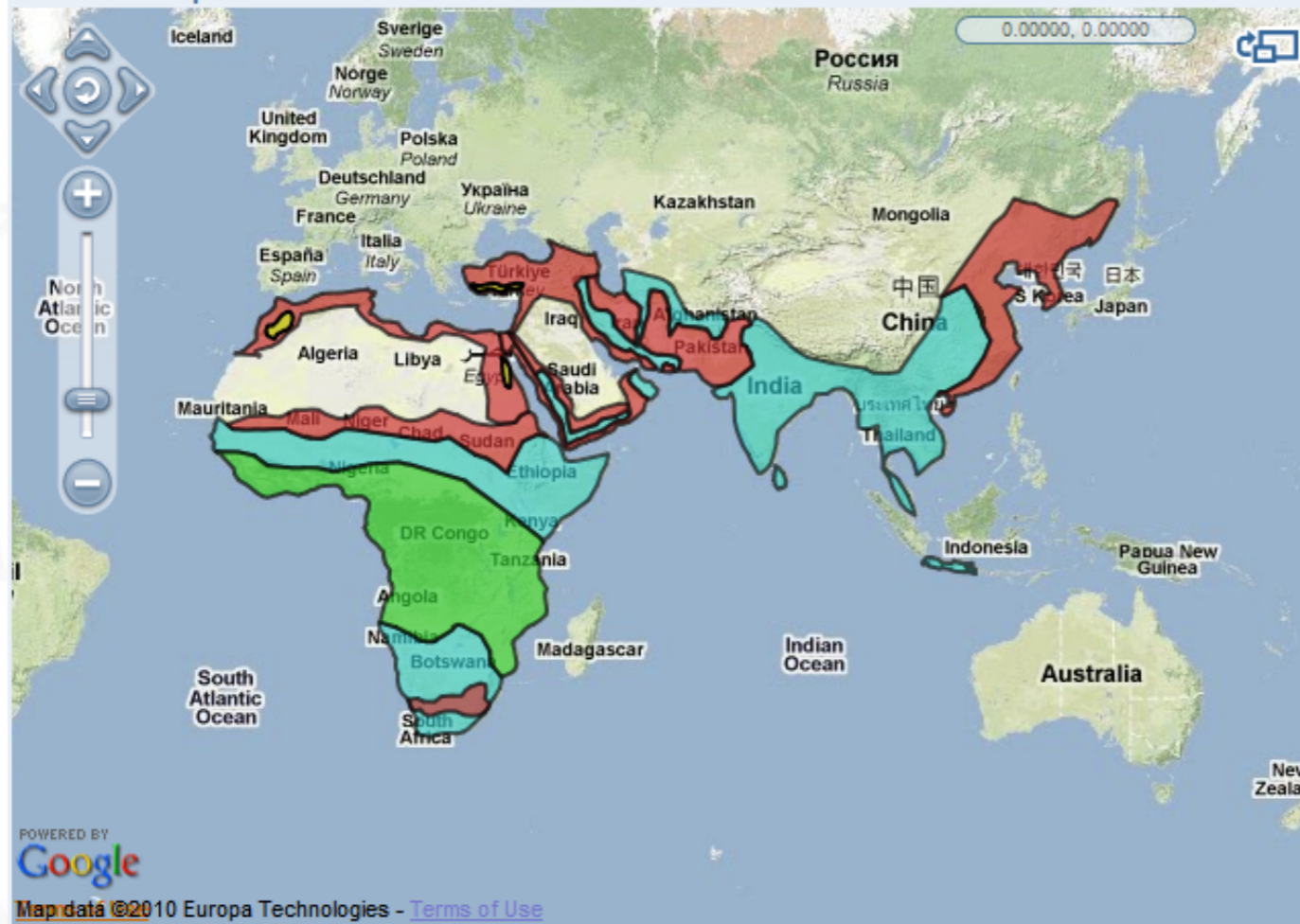
IkiMap

Subir mapas

Mi ikiMapa 









ikiMapa **Leopardo**



Descripción Controles Fondo

- MAPA**  **Leopardo presencia incierta**
  97 
- MAPA**  **Leopardo presencia verificada**
  67  
- MAPA**  **Leopardo presencia Histórica**
  67  
- MAPA**  **Leopardo presencia fragmentada**
  63  

Votar  Favoritos  Compartir  Exportar a KML  Añadir a...  Denunciar 

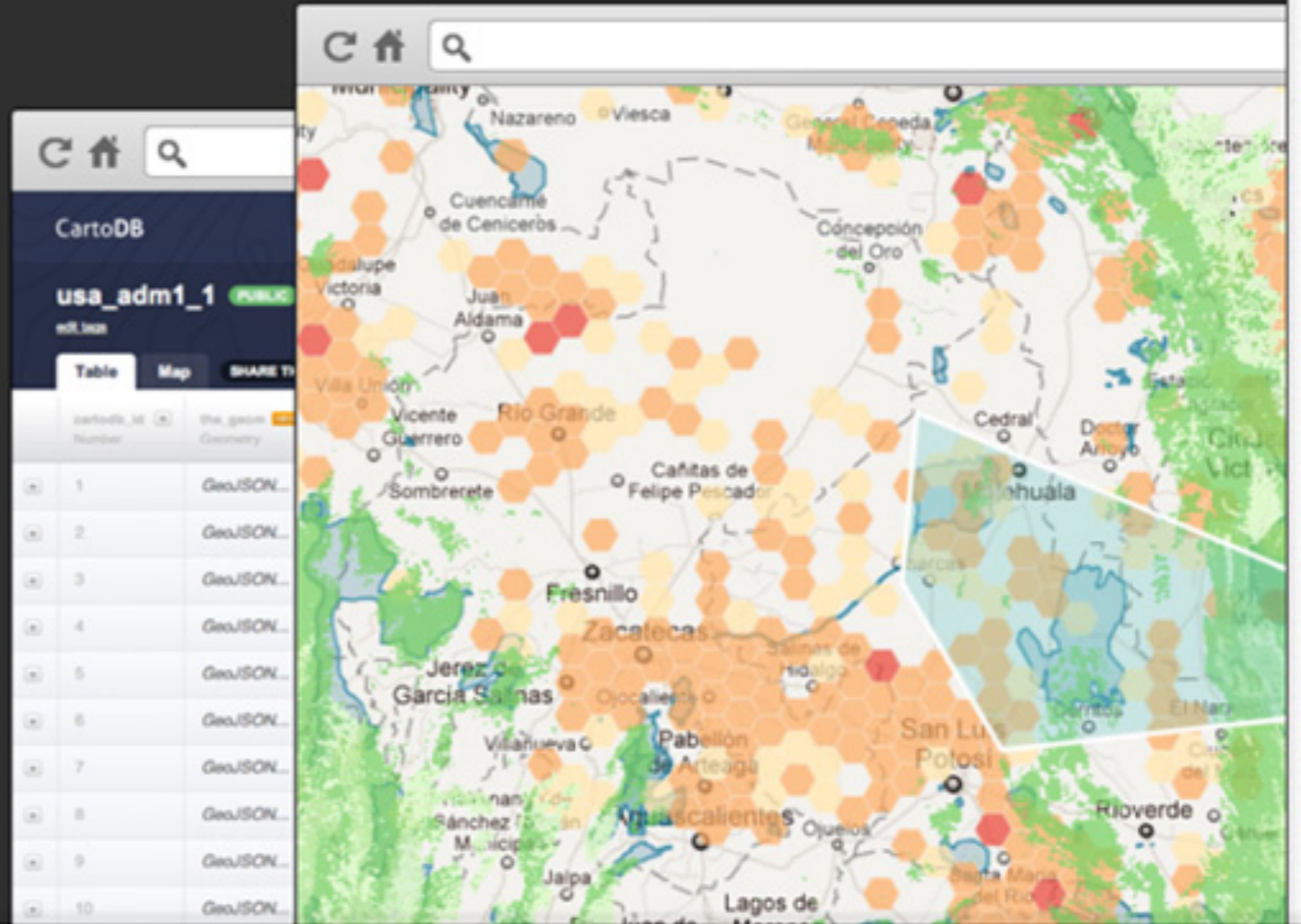
Nube de etiquetas

Una red social de mapas

CartoDB

**Map, analyze and
build applications
with your data.**

Sign up now
- it's free! -



Plataforma y software abierto, con buen diseño

Google Fusion Tables

Google Fusion Tables (Pre-Alpha)

http://fusion.googletable.com/DataSource?srcid=20001200

benjaminwiederh@... | [Join](#) | [FAQ](#) | [Feedback](#) | [Sign In](#)

Total Renewable Freshwater Supply, by Country (2006 Update)

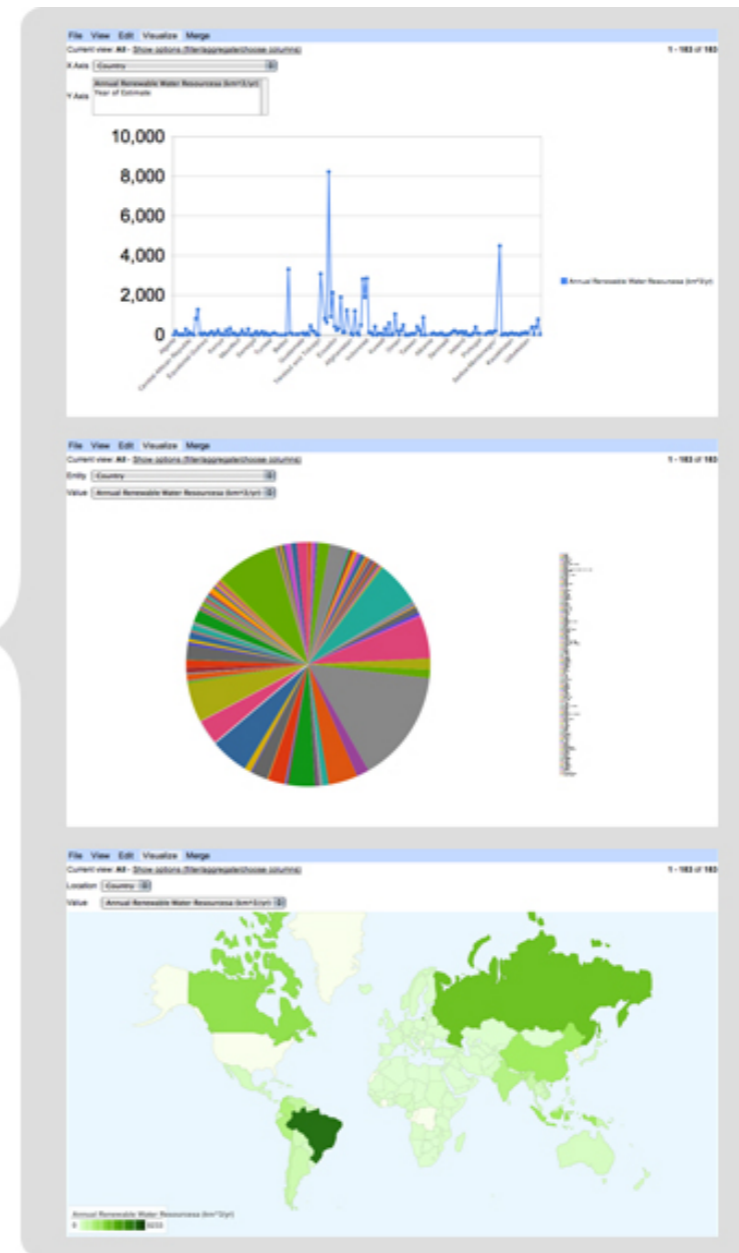
FAO Institute (http://www.pactnet.org/)

File View Edit Visualize Merge

Current view: All - Show actions, Show appropriate columns

1 - 100 of 183 Rows

Country	Annual Renewable Water Resour	Year of Estimate	Location
Algeria	14.3	1987	Estimates from FAO (1980) "Water Resources of Afr...
Angola	184.0	1987	Estimates from Beljean, Institute of Geography, US...
Benin	25.8	2001	Wargel, J./CBS, 2001. Low resources on...
Botswana	14.7	2001	Wargel, J./CBS, 2001. Low resources on...
Burkina Faso	17.5	2001	Wargel, J./CBS, 2001. Low resources on...
Burundi	3.6	1987	Estimates from Beljean, Institute of Geography, US...
Cameroon	285.5	2003	Estimates from FAO (2003) "Review of World Water R...
Cape Verde	5.3	1990	Estimates from FAO (1990) "Water Resources of Afr...
Central African Republic	144.4	2003	Estimates from FAO (2003) "Review of World Water R...
Chad	43.0	1987	Estimates from Beljean, Institute of Geography, US...
Comoros	1.2	2003	Estimates from FAO (2003) "Review of World Water R...
Congo	832.0	1987	Estimates from Beljean, Institute of Geography, US...
Congo, Democratic Republic (formerly Zaire)	1263	2001	Wargel, J./CBS, 2001. Low resources on...
Cote D'Ivoire	81	2001	Wargel, J./CBS, 2001. Low resources on...
Cyprus	0.3	1987	Estimates from FAO (1987) "Water Resources of Pa...
Egypt	86.8	1987	Estimates from FAO (1987) "Water Resources of Pa...
Equatorial Guinea	26	2001	Wargel, J./CBS, 2001. Low resources on...
Eritrea	6.3	2001	Wargel, J./CBS, 2001. Low resources on...
Ethiopia	110.0	1987	Estimates from Beljean, Institute of Geography, US...
Gabon	184.0	1987	Estimates from Beljean, Institute of Geography, US...
Gambia	8.0	1982	Estimates from FAO (1980) "Water Resources of Afr...
Ghana	53.2	2001	Wargel, J./CBS, 2001. Low resources on...
Guinea	226.0	1987	Estimates from Beljean, Institute of Geography, US...
Guinea-Bissau	31.0	2003	Estimates from FAO (2003) "Review of World Water R...
Kenya	30.2	1990	Estimates from FAO (1990) "Water Resources of Afr...
Lesotho	5.2	1987	Estimates from Beljean, Institute of Geography, US...
Libya	233.0	1987	Estimates from Beljean, Institute of Geography, US...



Gráficos y mapas desde una Tabla, marca "Google"

Ideas para futuros proyectos...



Software libre "opengeo stack"

OpenLayers
Geoserver
PostGIS

AMAZON AWS
SKYGONE
Plataformas

Drivers Google Fusion Tables / CartoDB
gvSIG / Geomeia



Proyectos reales en la nube

¿Amazon Web Services para el sector académico?

<http://aws.amazon.com/es/education/>

QGIS

Gamificación

Carto

Dostpatial

TileMill
Mapnik

Redes Sociales

Visualización

Spatialite