

photo: Yan Aarhus Bertrand

YANN
ARTHUR
BERTRAND
ORG

Why Data Democracy matters



CEOS Committee on Earth Observation Satellites



28 space agencies (mostly from developed countries)



World
Meteorological
Organization
Weather • Climate • Water

20 participating organizations



Group on
Earth Observations

80 Governments and the European Commission
(mostly developing nations)
58 participating organizations





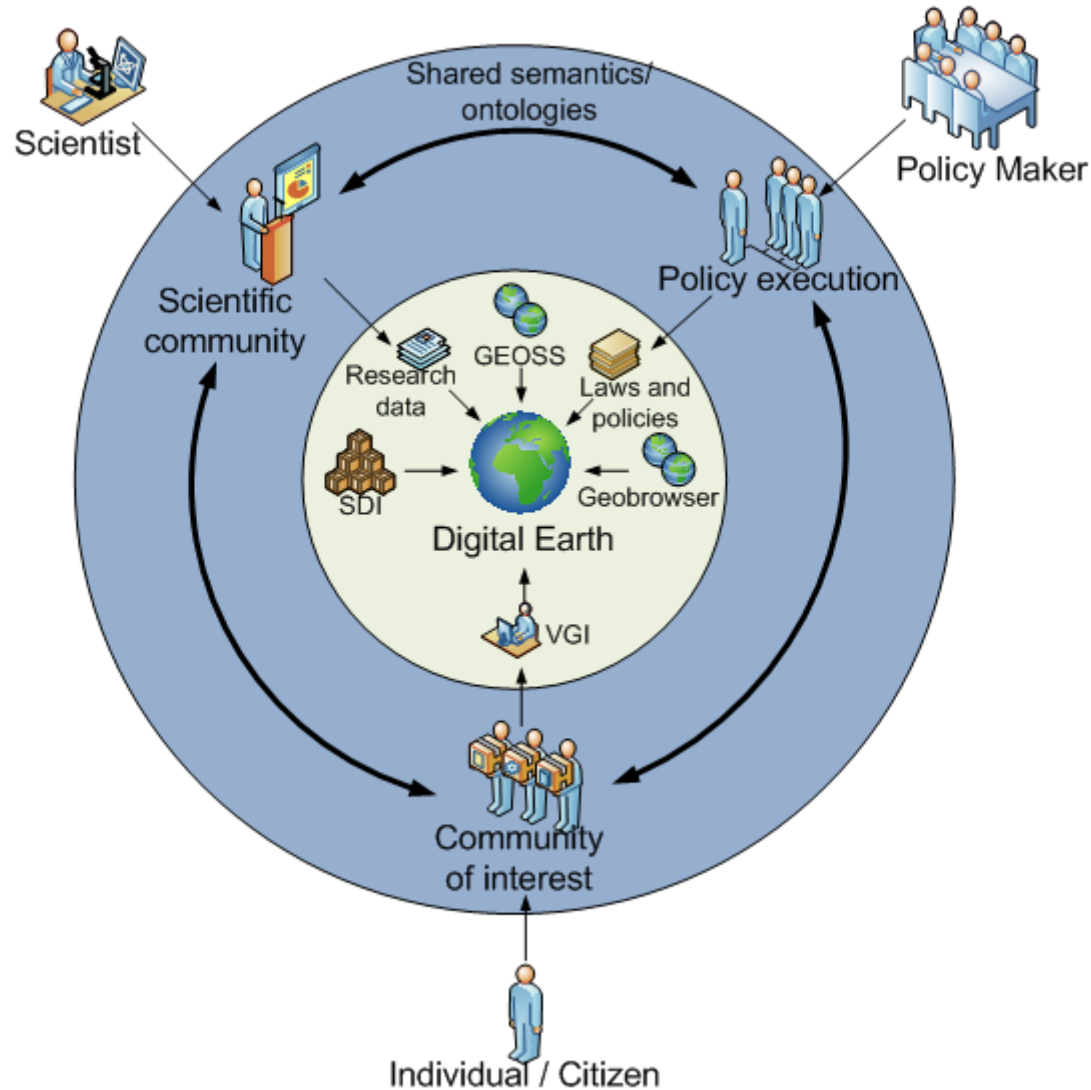
Group on
Earth Observations

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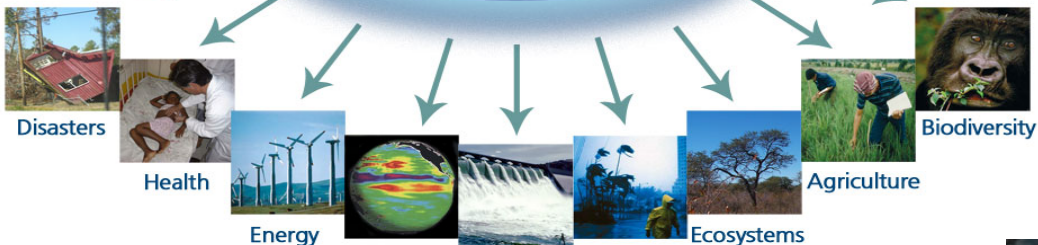
What's in GEOSS for me?

Sharing knowledge through GEOSS



We need tools to share knowledge...

OBSERVING SYSTEMS



NINE SOCIETAL BENEFIT AREAS

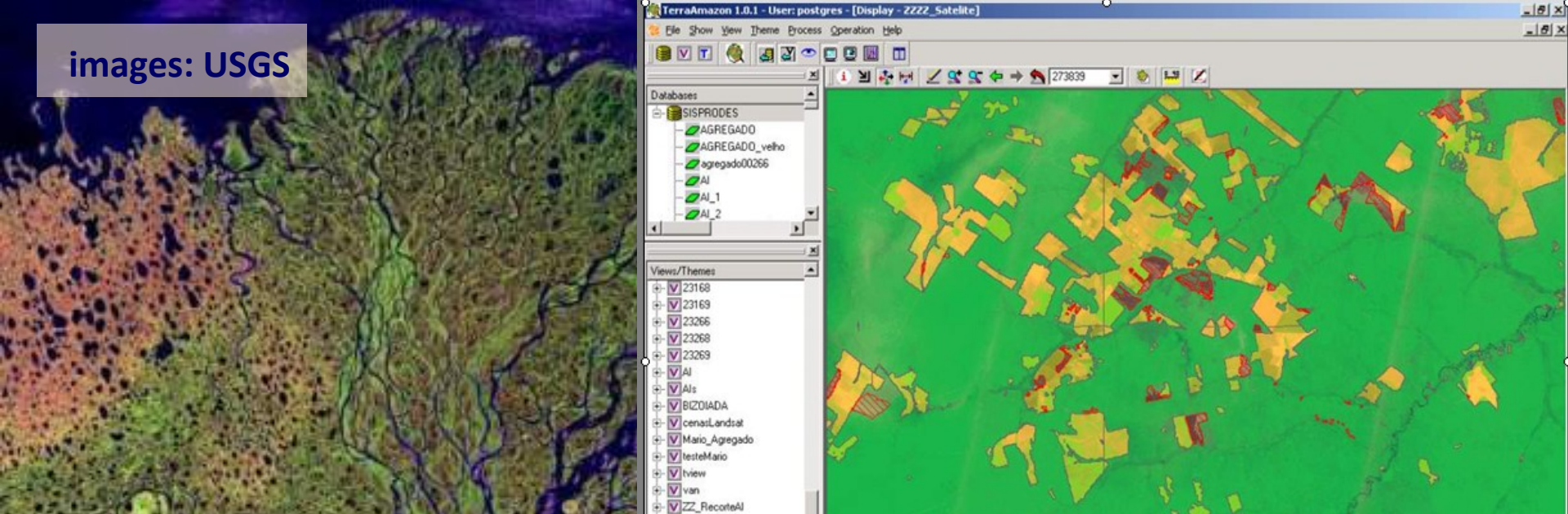
GEOSS's promise is to become a treasure chest



Data Democracy is the key to open the GEOSS treasure chest



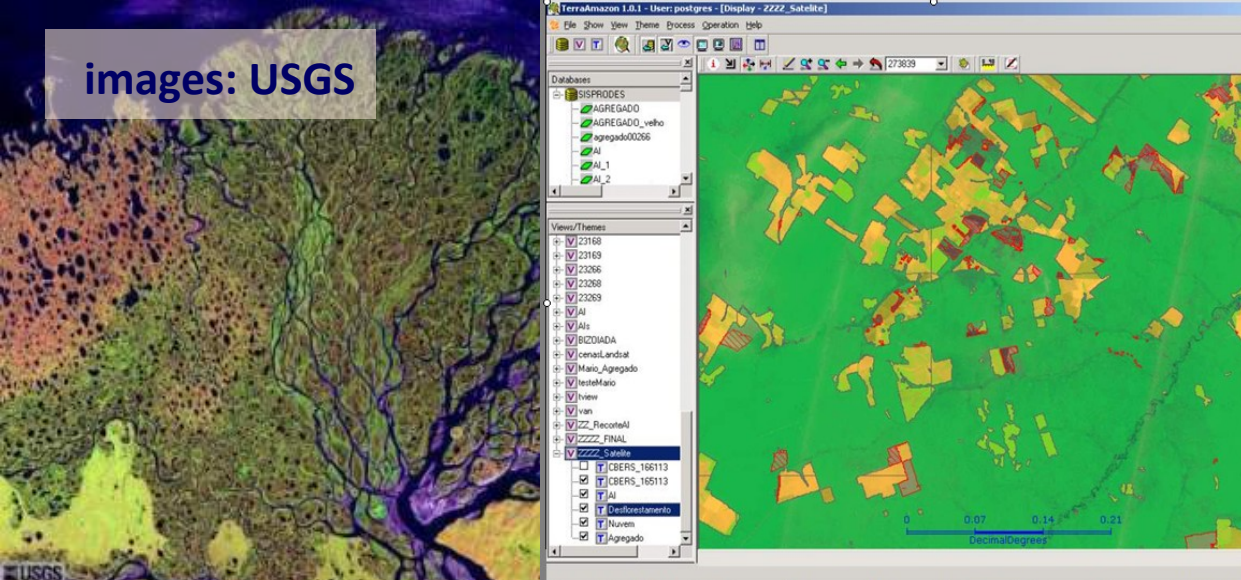
images: USGS



Data democracy = free data + OS software + capacity building?



images: USGS



Data democracy = community building



Open access data policy for optical data: a qualified success

**CBERS-LANDSAT @INPE:
1 million images (2004-2009)**



CBERS image of
Manaus

**LANDSAT @USGS:
1 million images (Jan-Aug-2009)**



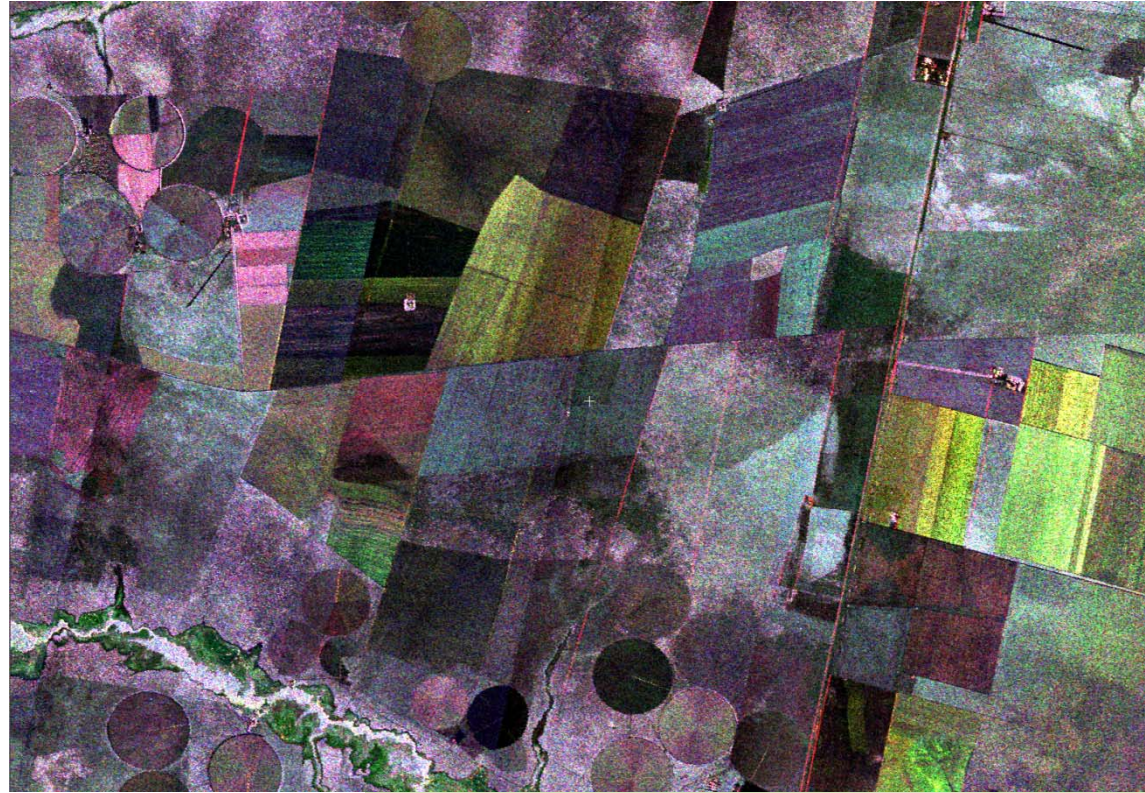
LANDSAT image of Guiné-Bissau



Sentinel-2

**GMES Sentinels @ESA-EC:
Data will be open access (Sep 2009)**

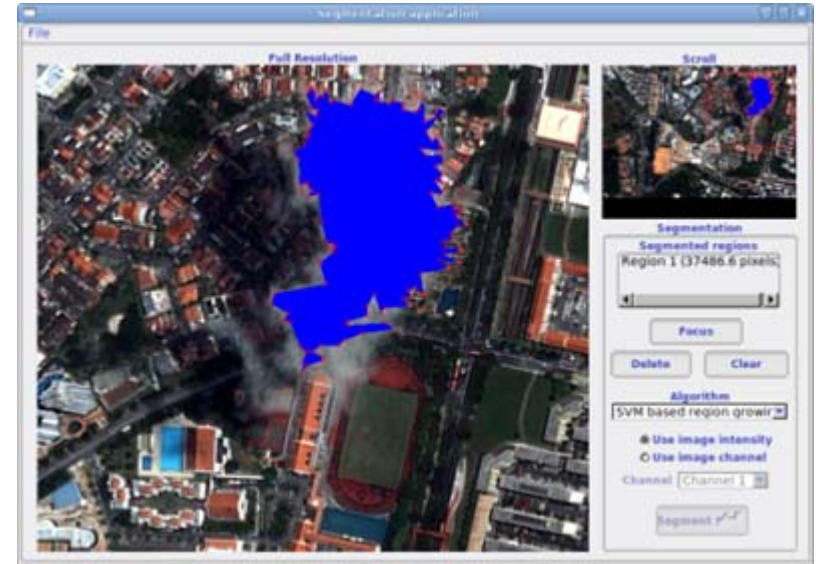
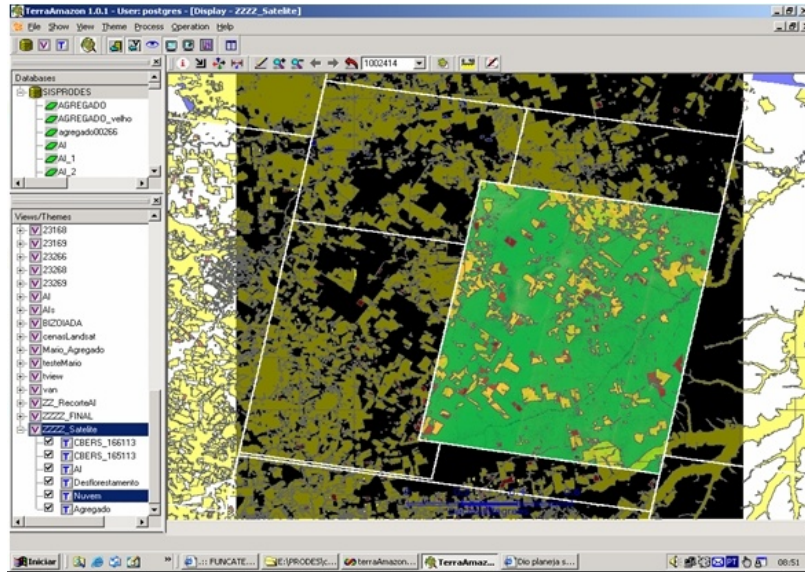
Open access data policy for radar data: a tough road ahead



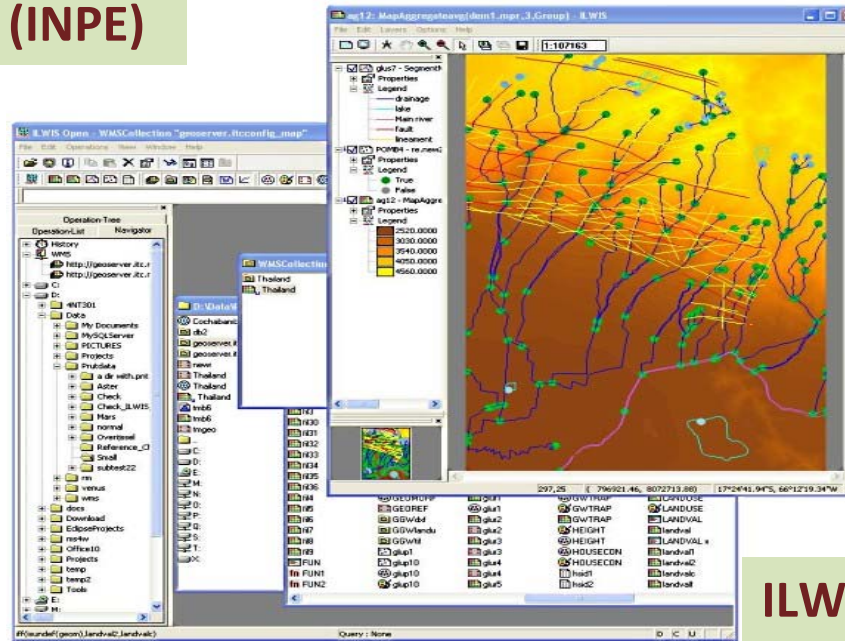
L-band SAR image (Bahia, Brasil)

Open access data policy for radar data: a tough road ahead

Open source software for EO data: More coordination is needed



SPRING + Terralib (INPE)



Orfeo Toolbox (CNES)

ILWIS (ITC - Netherlands)

How do we build an EO community in developing countries?



The screenshot shows the RealClimate website. At the top is a navigation menu with links: start here, home, about, data sources, RC wiki, contributors, index, and an 'ar' link. Below the menu is a banner image of a sunset over a body of water with the text 'RealClimate' and 'Climate science from climate scientists'. To the right of the banner is a search bar and a 'Search' button. Below the search bar are radio buttons for 'Site' and 'Google Custom Search'. Further down is a badge for 'SCIENTIFICAMERICAN 2005 Science & Technology WEB AWARDS' and a 'Top Blogs WIKIO' badge for 'Sciences'. A green circular logo for 'Guardian Environment Network' is also visible. The main content area features two article snippets. The first is titled 'The Economist does not disappoint' and is filed under 'Climate Science' by 'eric' on '13 April 2010'. The text of the snippet discusses the March 20th-26th cover story of The Economist, 'Spin, science and climate change,' and its focus on the politics of 'climategate'. A 'More »' link is provided. The second snippet is titled 'Krugman weighs in' and is filed under 'Climate Science' by 'david' on '11 April 2010'. The text discusses Paul Krugman's article in the New York Times Magazine, 'Building a Green Economy', and mentions fellow NYT columnist Tom Friedman. A 'Comments (pop-up) (34)' link is provided. On the right side of the page, there is a 'Recent Comments' section listing several comments, including 'Krugman weighs in: John Peter', 'Climate scientist bashing: David B. Benson', and 'The Economist does not disappoint: Edward Greisch'. At the bottom right, there is a 'With Inline' link.

The Economist does not disappoint
Filed under: [Climate Science](#) — eric @ 13 April 2010

The March 20th -26th cover story of *The Economist*, “Spin, science and climate change,” deftly bypasses the politics surrounding ‘climategate’, to tackle the more important issue: whether any of this has any bearing on climate change science and policy. This is a refreshing bit of journalism that everyone should read.

[More »](#)

[Comments \(pop-up\) \(34\)](#)

Krugman weighs in
Filed under: [Climate Science](#) — david @ 11 April 2010

After weeks and months of press coverage seemingly [Through the Looking Glass](#), Paul Krugman has sent us a breath of fresh air this morning in the New York Times Magazine, entitled “[Building a Green Economy](#)”. Krugman now joins fellow NYT columnist [Tom Friedman](#) as required reading in my [Global Warming for English Majors](#) class at the University of Chicago.

Recent Comments

- Krugman weighs in: John Peter
- Krugman weighs in: John Peter
- Climate scientist bashing: David B. Benson
- Krugman weighs in: Hank Roberts
- Krugman weighs in: Georgi Marinov
- Climate scientist bashing: Septic Matthew
- Krugman weighs in: Brian Dodge
- The Economist does not disappoint: Edward Greisch
- Krugman weighs in: Septic Matthew
- Climate scientist bashing: Geoff Wexler

With Inline

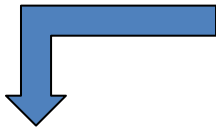
Use social collaborative tools and reach a critical mass

Virtual Globe = digital collection of data and services set within a global view of a world

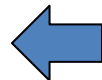
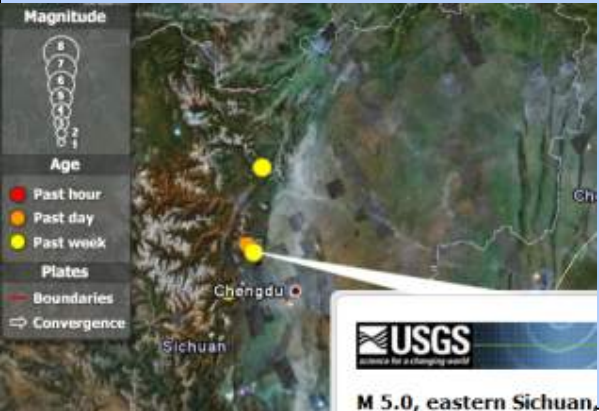
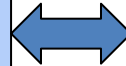
Virtual Collaborative Globe = virtual globe that allows collaborative participation



Open Globes



Virtual Globes



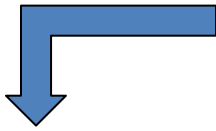
OpenStreetMap



Wikimapia



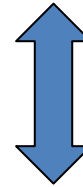
Open Globes



Virtual Globes

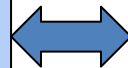


visibility,
communication,
accessibility



Data + services

(can only be provided reliably by organizations that are trusted)



Scientists as policy-makers

(peer-reviewed results)

Citizens as sensors

(perception, individual actions)

