Web 2.0, map production & publishing and geospatial information dissemenation

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President, International Cartographic Association

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Web 2.0

O'Reilly (2004)
"Open Source Paradigm Shift"

What is changing?

Access to information and media Ubiquitous devices Geo-enabled consumer electronic products Web 2.0 and Social Software Movement of data repositories New players in geospatial Public interest in mapping Technologically aware and savvy producer/users

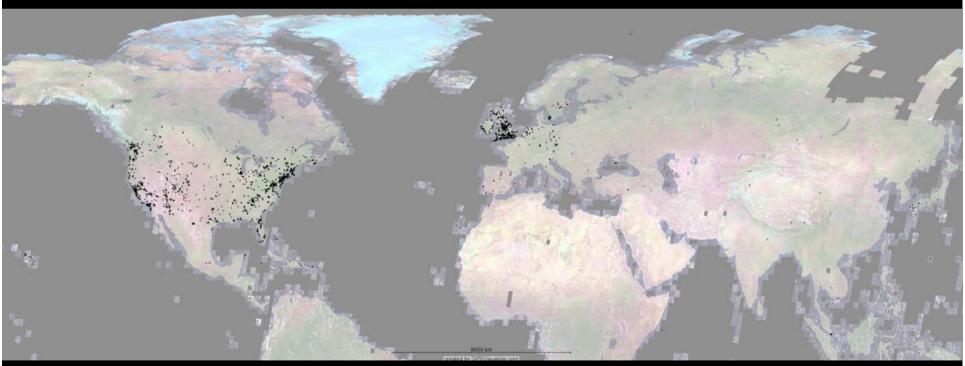
Web 2.0

Presents a new view on what can be done Presents a new genre of publishing (Including cartographic publishing)

Web 2.0 and location

Social network and sharing sites

- Flickr
 - 90 million geotagged images

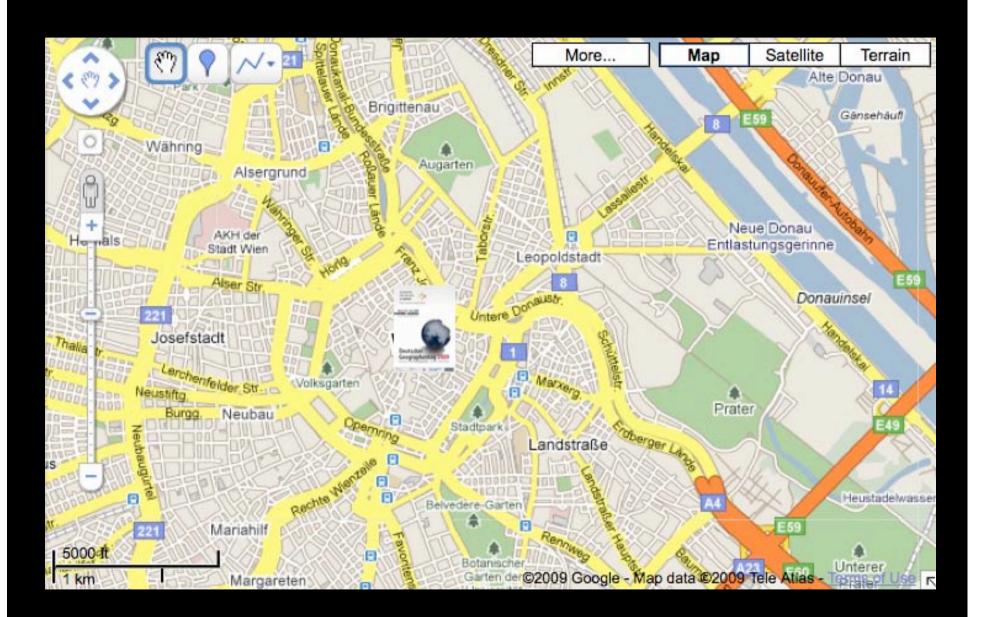


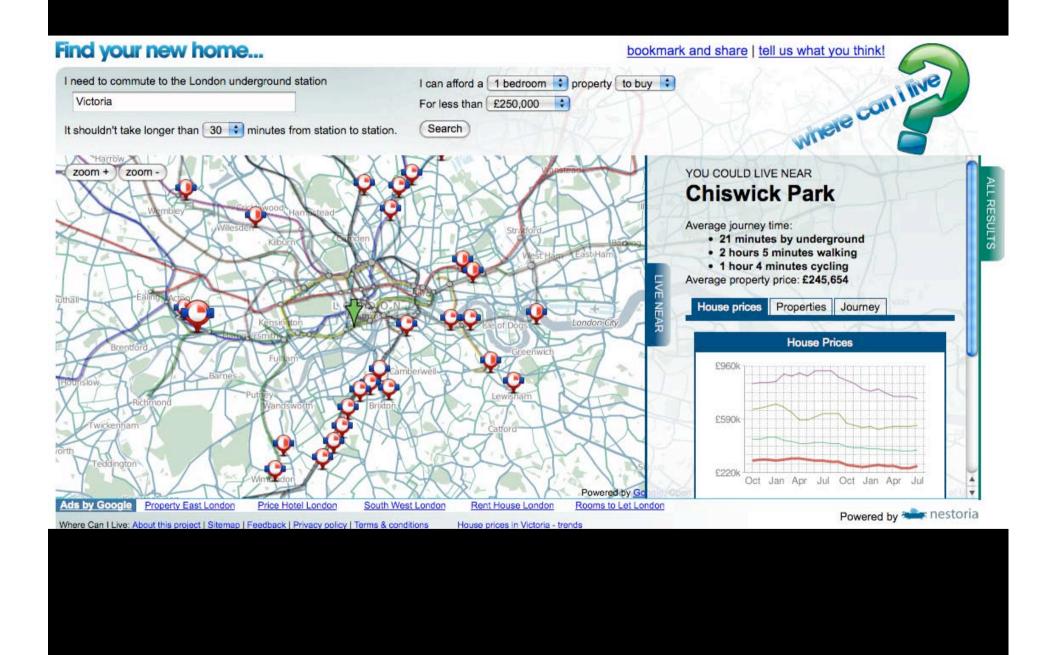
Web 2.0 and mapping

Community involvement

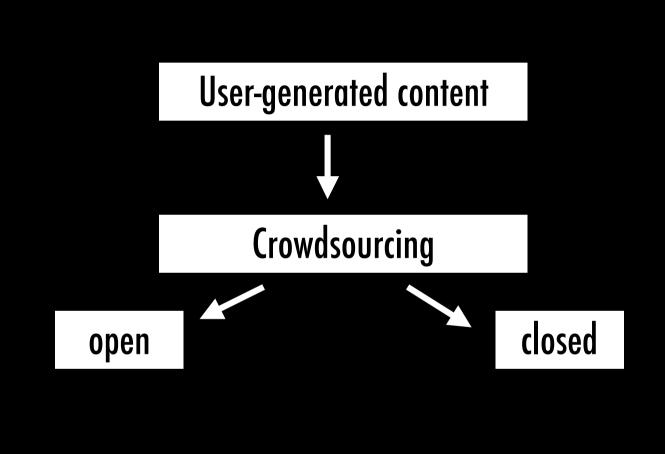


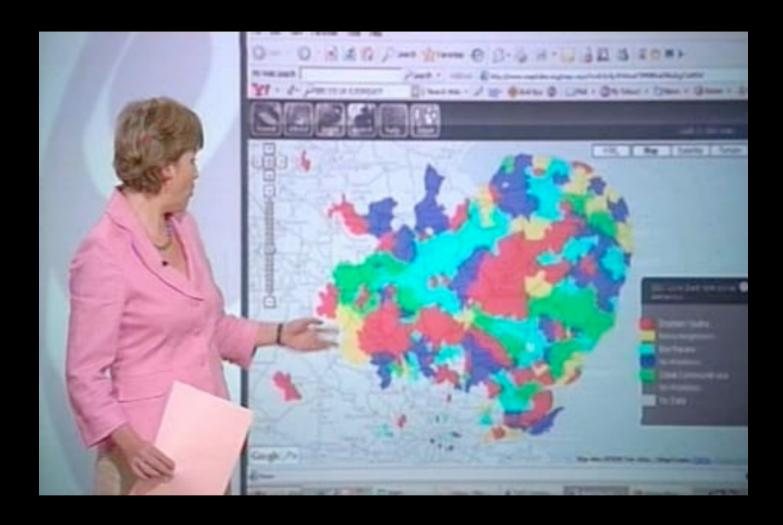
User-generated content





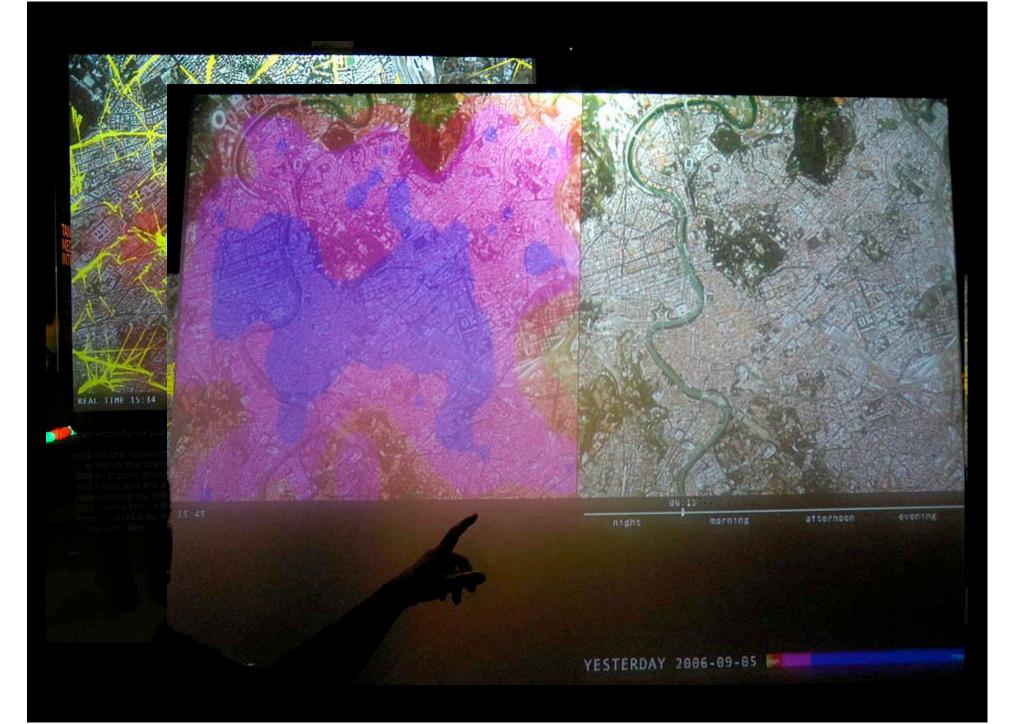
User-generated content





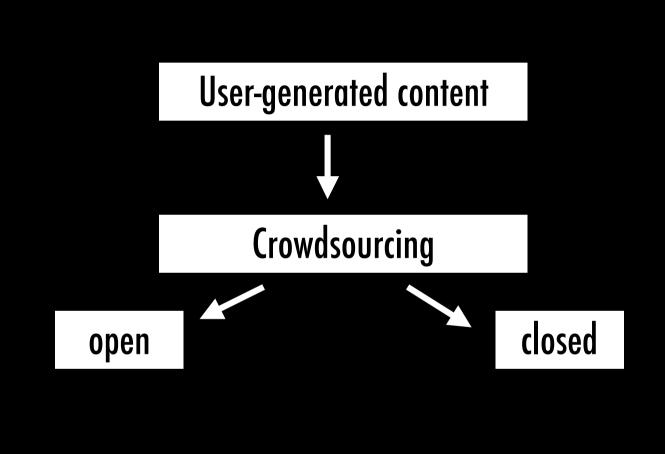
"Crowd sourcing"
CASA

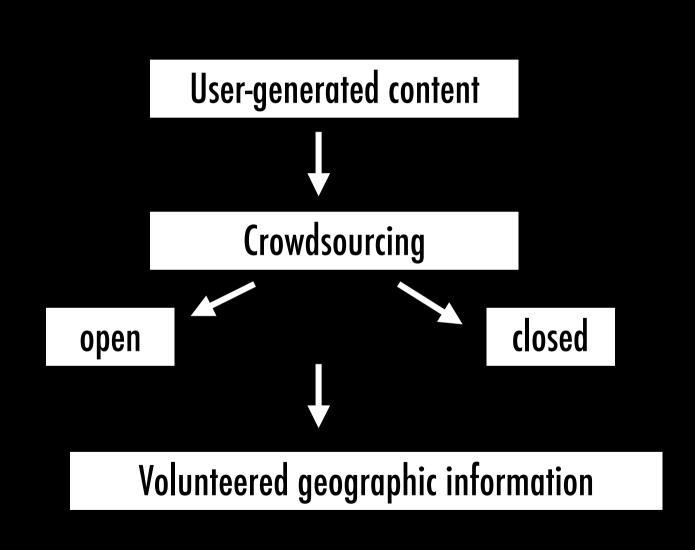
Mapping Anti-Social Behaviour in East Anglia Using *MapTube* on BBC TV Look East

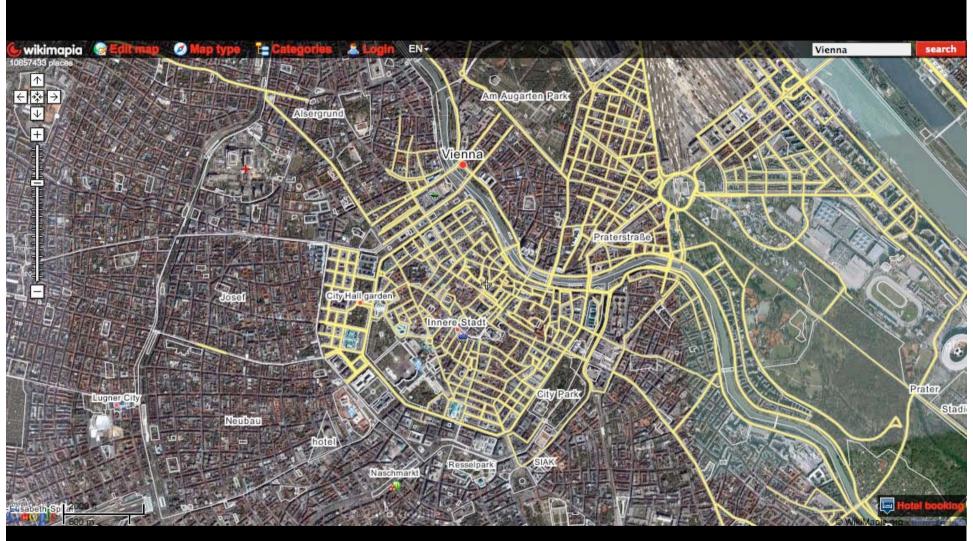




CitySense http://www.citysense.com/home.php







WikiMapia



View

Edit

History

Export

OpenStreetMap is a free editable map of the whole world. It is made by people like you.

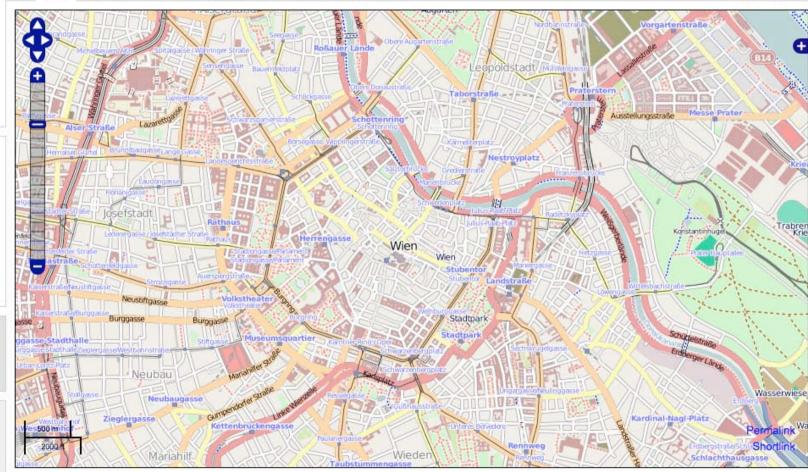
OpenStreetMap allows you to view, edit and use geographical data in a collaborative way from anywhere on Earth.

OpenStreetMap's hosting is kindly supported by the UCL VR Centre and bytemark.

Help & Wiki News blog Shop Map key

Search Where am I?

examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen' more



GPS Traces

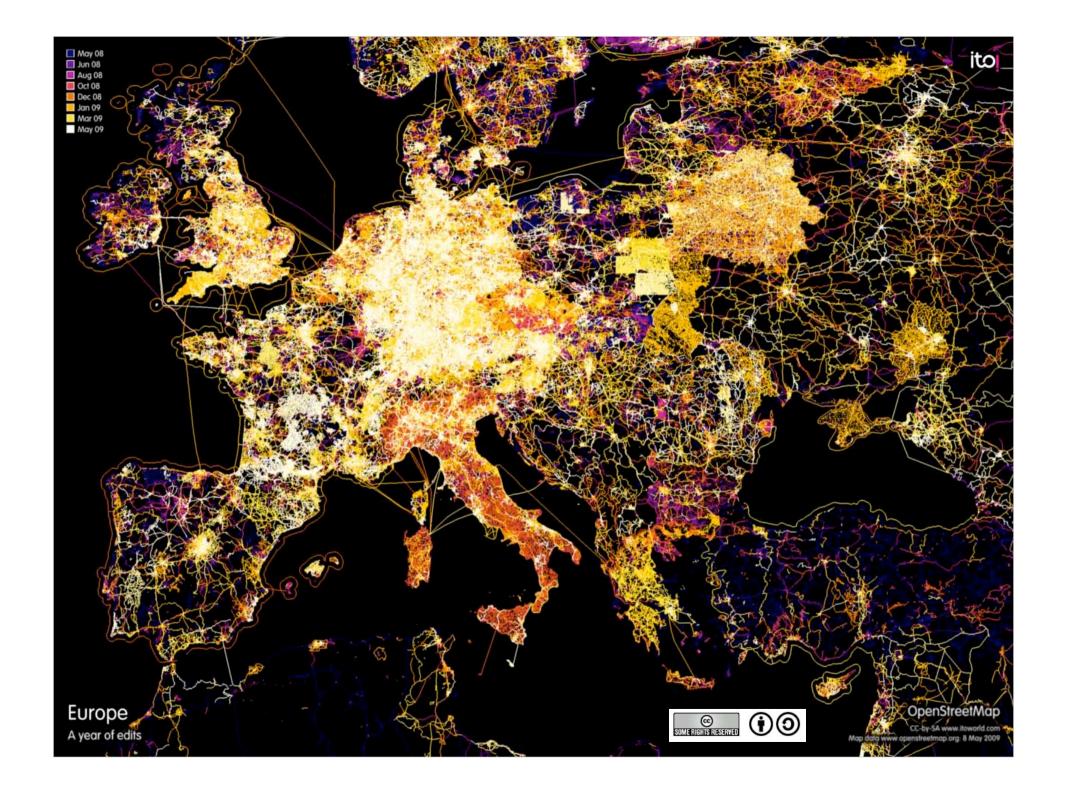
User Diaries

log in | sign up

OpenStreetmap



http://share.gigapan.org/viewGigapan.php?id=28013



Web 2.0, maps and informing



United Nations Environment Programme

Environment for Development



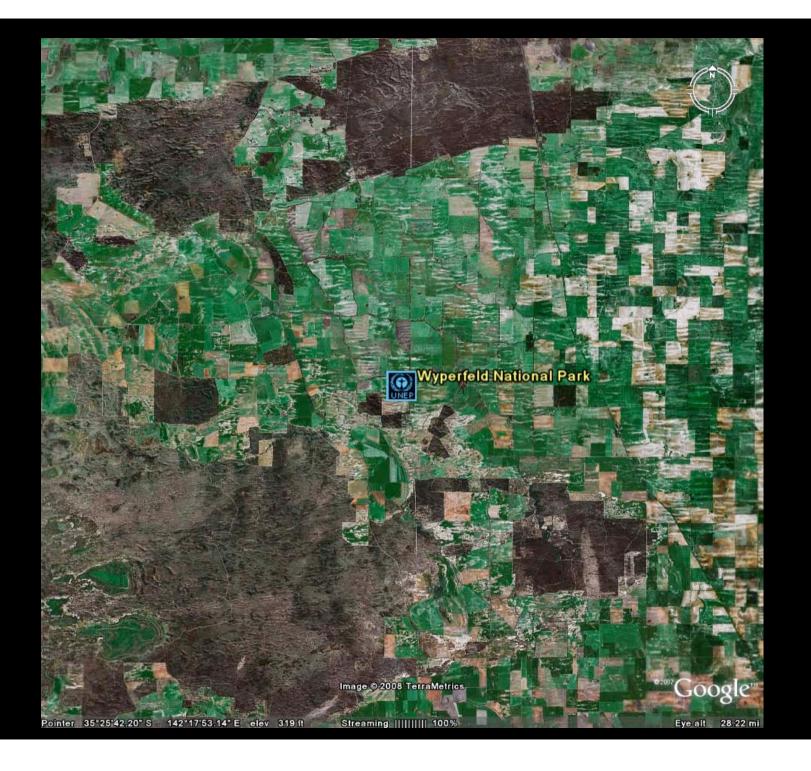
Atlas of Our Changing Environment

Search

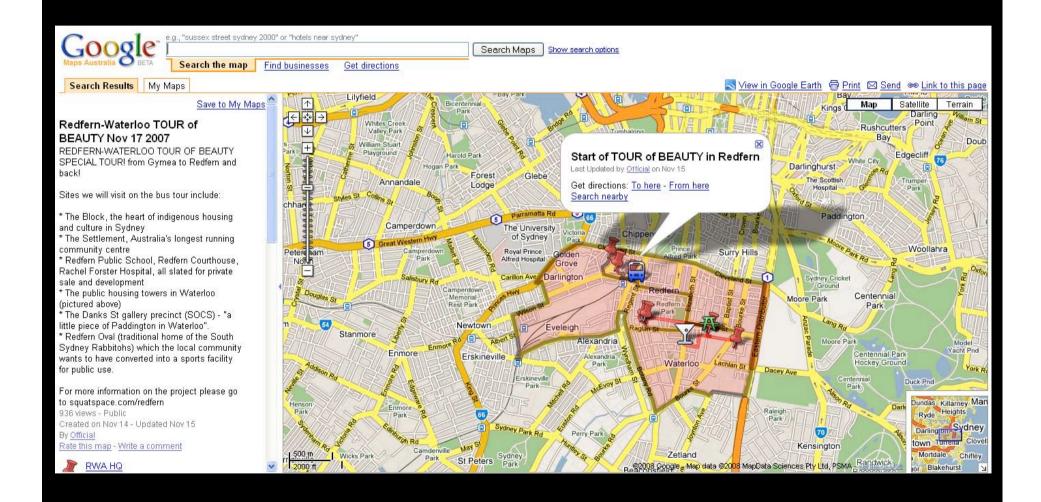
Go

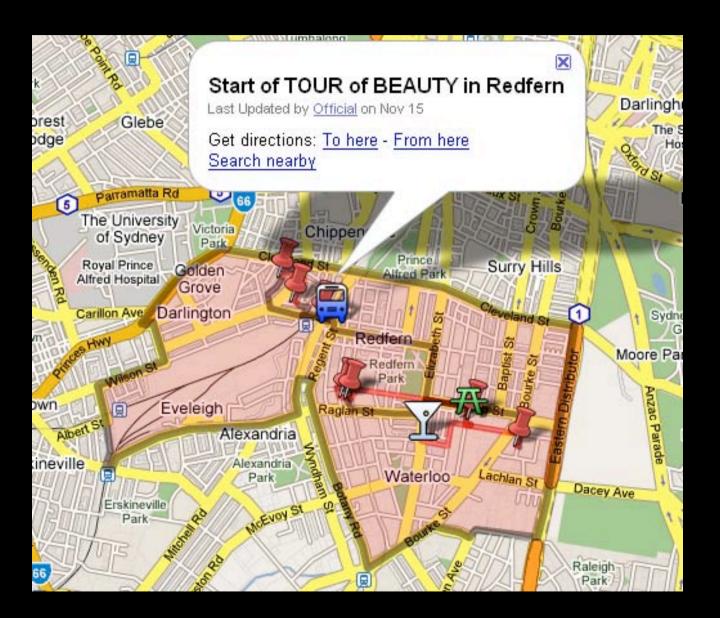


Directions: To navigate the Atlas of Our Changing Environment, use the zoom and pan tools located at the top left corner of the map. Click on the wife icons on the map to view each site with detailed information located on our website and in Google Earth.



Web 2.0, maps and community publishing





Home | About | Campaigns | Get Involved | Jobs | Join & Donate | Links | Bushwalking | Media | Regions | Shops | Contacts

CAMPAIGNS

■ See all Campaigns

Forests

■ Tasmanian Forests

In this section

- Protecting Forests, Growing Jobs
- Upper Florentine self-drive quide
- Stvx self-drive and walking guide
- 'PEFC-approved' the unsustainable stamp of approval
- Gunns Law Suit Against The Wilderness Society & Others
- Latest Campaign Updates
- Latest Media Releases
- Latest Events

Subtopics

- Gunns' Proposed Pulp Mill
- Styx Valley
- Tarkine

Related topics

- Gunns' Proposed Pulp Mill
- Tasmania





Home > Campaigns > Forests > Tasmanian Forests

Tasmania's devastating logging practices exposed

Ever wanted to see the devastating impact that logging is having on the Tasmanian landscape?

It is now possible to see the huge scale on which Tasmania's forests are being destroyed.

Each year in Tasmania, approximately 15,000 hectares of native forest are destroyed. The magnitude of this is hard to grasp but the following overlays for Google Earth now make it possible.

A total of 155 areas, totalling 57 square kilometres, of native forest will be permanently cleared of forest and converted to plantations in this year. This landclearing is devastating our biodiversity and water catchments.

Download Google Earth Overlay:

Tasmanian logging coupes | Gunns' proposed pulp mill and existing mills

Quick start: Download either or both (.kzm) files to your computer. Double-click them and it should automatically launch Google Earth, Need more help?

Quick tips:

- Tasmania), choose 'Download Google Earth overlay map'
- . To automatically zoom into an area click on coupe border. You may need to get closer first.
- Special feature: After launching Gunns' woodchip mill overlay, click on a mill and from the pop-up choose 'See Japanese Paper Mills!

Google Earth is a free program which enables you to view satellite images of any location in the world using your internet connection. By downloading these overlays into Google Earth, you can see all of the planned logging in Tasmania's public native forests for the 2006-2007 year. However, selective logging and contingency coupes are not vet included.



Once you have downloaded the overlays, you will see each planned logging coupe. As you zoom in you will see, in addition to the placemark circles, the outline of each coupe. Clicking in the placemarks will reveal further information about each logging operation.

Coupes with an orange border will be clearfelled and then replaced with tree plantations. Areas with a pink border will be clearfelled, allowed to regrow to native forest, and then placed on a logging rotation. Yellow areas are other types of logging, such as aggregated retention or clump clearfelling, but not including selective logging. Areas with green borders are reserves - these boundaries are still being worked on. Reserves are, at this stage, only included if logging is occurring close by.

To find out what much of this wood is destined for, you can also download overlays showing the locations of Gunns Ltd's Tasmanian woodchip mills. Zooming in to these locations will show you piles of woodchipped forest awaiting export. Clicking on the placemark circle will reveal further information, including a



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Tasmanian map showing logging coupes

Inset: a Forestry Tasmania overlay



Pledge your support to stop the Pulp Mill »

More Cyberactions »





SEARCE

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more »





You can help save Australia's environment by becoming a member today, more »





Support sustainable solutions for our environment, more »

LEAVE A BEQUEST



Help protect Australia's wilderness for future generations, more »





Australia's premier online shop for nature gifts, more »



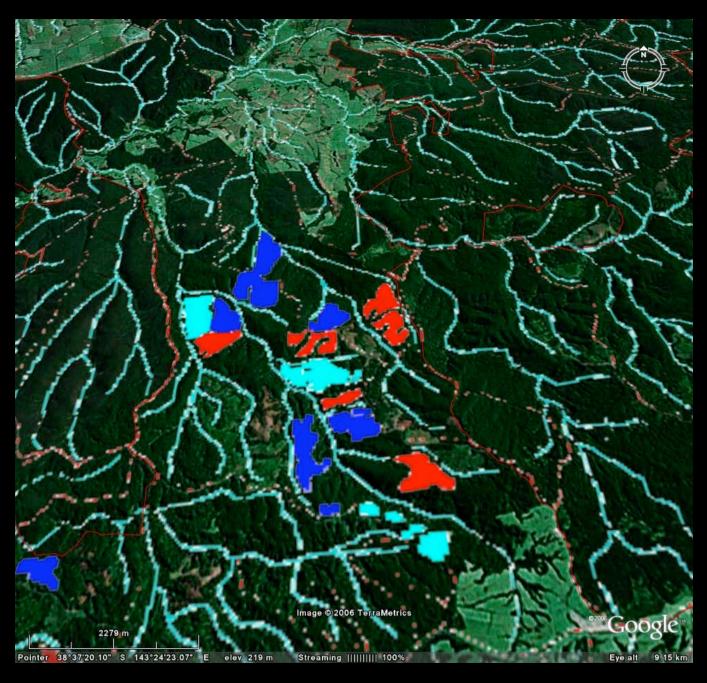


Be part of the solution volunteer with us! more »

Work for Wilderness

Help us raise public awareness and support





Otway Ranges Environment Network http://www.oren.org.au/oren/ge.html



Bad Developers
http://www.baddevelopers.green.net.au/Docs/gmw.htm



Bad Developers

Southern Rural Water also using Acrolein

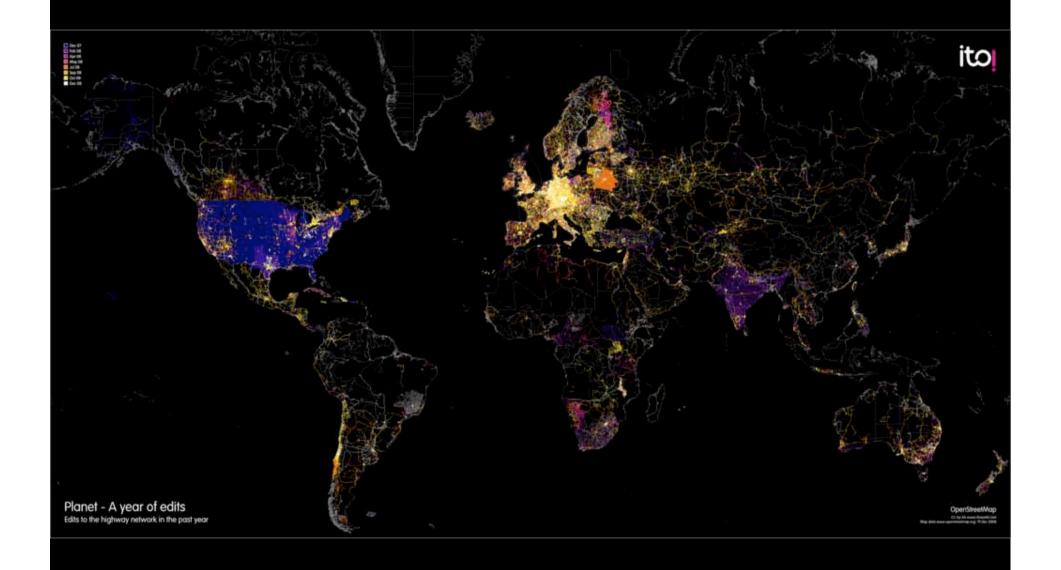
The orange indicates approximate location of channels sprayed with Acrolein in January and November $2005\,$

http://www.baddevelopers.green.net.au/Docs/gmw.htm

Change in how users access, use and publish geographical information

Issues to be addressed by the cartographic community

Accuracy Currency Coverage







Other issues

Hidden data provision agenda
Data scraping = data theft
"Just good enough" mindset
Anonymous collectors

Data access and exploitation



Research relating to 'different' use of geospatial information

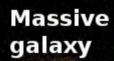
Collaborative publishing
Collaborative decision-making
Collaborative problem solving



"The wisdom of the crowds" (Random House)

James Surowiecki – *The New Yorker*

Ask a crowd, rather than a pair, and the average is quite close to the truth.





Mystery Blob

Changes in strategies

- Conventional and Web maps
 - 'Packaged' products
- Web 2.0
 - Collaborative outcomes
- Where 2.0
 - Geo-located outcomes

Government and profession

Data collection, maintenance and provision

Government and profession

Data collection, maintenance and provision

Data use and representation

Individuals and organisations

Data collection

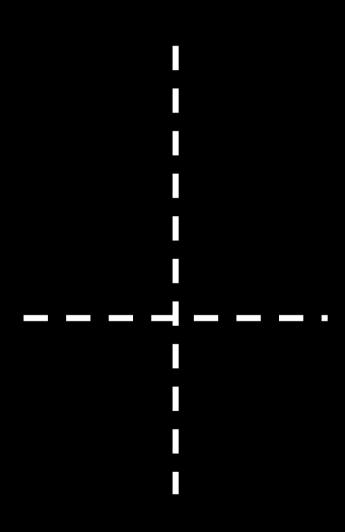
Government and profession Individuals and organisations

Data collection, maintenance and provision

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Data collection, maintenance and provision

Codie and condopgate ssitions representation



Boundaries are gone

Web 2.0 and changing landscapes

- The way in which information is accessed
- New ways of using products
- Users can be the map producer
- Data assembled from many discrete and dispersed sites
- Plethora of devices to generate maps and visualization products
- Many products available to visualise geography
- Not just maps to inform about geography, but also many 'mainstream' media



Web 2.0 and ICA activities

Research Agenda on Cartography and GI Science

- Geographic Information
- Metadata and SDIs
- Geospatial Analysis and Modelling
- Usability
- Geovisualization, Visual Analytics
- Map production
- Cartographic Theory
- History of Cartography and GI Science
- Education
- Society

Commissions



& Working Groups

COMMISSIONS

- Cartography and Children
- Digital Technologies in Cartographic Heritage
- Education and Training
- Generalisation and Multiple Representation
- Geospatial Analysis and Modeling
- Geospatial Data Standards
- Geovisualization
- History of Cartography
- Management and Economics of Map Production
- Mapping from Satellite Imagery
- Map Projections
- Maps and Graphics for Blind and Partially Sighted People
- Maps and Society
- Maps and the Internet
- Marine Cartography
- Mountain Cartography
- National and Regional Atlases
- Planetary Cartography

- Theoretical Cartography
- Ubiquitous Mapping
- Underrepresented Groups and Cartography
- Use and User Issues

WORKING GROUPS

- Art and Cartography
- Cartography in Early Warning and Crisis Management
- Census Cartography
- GIS and Sustainable Development
- Mapping Africa for Africa
- Open Data Access and Intellectual Property Rights
- Open Source and Geospatial Technologies
- Tourist Cartography

