OpenStreetMap

Steve Coast

www.cloudmade.com
steve@cloudmade.com
Why OSM?

• Geodata isn’t
• Free
• Open
• Current
• Wiki is obvious next step
• It’s just fun
Some Quotes
“It’s absolutely possible for a bunch of smart guys with the technology we have today to capture street networks, and potentially the major roads of the UK and minor roads”
“It’s absolutely possible for a bunch of smart guys with the technology we have today to capture street networks, and potentially the major roads of the UK and minor roads”

Ed Parsons, ex-CTO Ordnance Survey
“If you don’t make [lower-resolution mapping data] publicly available, there will be people with their cars and GPS devices, driving around with their laptops .. They will be cataloguing every lane, and enjoying it, driving 4×4s behind your farm at the dead of night. There will, if necessary, be a grass-roots remapping.”
“If you don’t make [lower-resolution mapping data] publicly available, there will be people with their cars and GPS devices, driving around with their laptops .. They will be cataloguing every lane, and enjoying it, driving 4×4s behind your farm at the dead of night. There will, if necessary, be a grass-roots remapping.”

Tim Berners-Lee
“You could have a community capability where you took the GPS data of people driving around and started to see, oh, there’s a new road that we don’t have, a new route .. And so that data eventually should just come from the community with the right software infrastructure.”
“You could have a community capability where you took the GPS data of people driving around and started to see, oh, there’s a new road that we don’t have, a new route .. And so that data eventually should just come from the community with the right software infrastructure.”

Bill Gates
We make beautiful maps
...which we give away
Using OSM
Viewing trace ostrachstr.gpx

Filename: ostrachstr.gpx (download)
Uploaded at: Thu Dec 13 11:42:43 +0000 2007
Points: 814
Start coordinate: 47.522993088; 10.282216072 (map / edit)
Owner: Klaus Winzek
Description: Ostrachstr
Tags: Germany Sonthofen
Your GPS Traces

see traces from all users

upload GPX file: Choose File  no file selected

description:
tag: [ ]
public? [ ]

Upload  help

Showing page 0 (1 - 20 of 33)  next page

Public?  Delete?

mc-steve-12.gpx  2,099 points  on 14-May more / map
ava taking two trams in manchester
by SteveC in: manchester uk

mc-steve-11.gpx  2,783 points  on 14-May more / map
conor & anne walking manchester sunday
by SteveC in: manchester uk

mc-steve-10.gpx  2,307 points  on 14-May more / map
chris & ben sunday mapschester
by SteveC in: manchester uk

mc-steve-9.gpx  3,435 points  on 14-May more / map
mapchester chris and lesley sunday afternoon
by SteveC in: manchester uk

mc-steve-8.gpx  3,196 points  on 14-May more / map
drew & karen saturday eve sunday morn
by SteveC in: manchester uk

mc-steve-7.gpx  5,175 points  on 14-May more / map
chris sunday morning
Workshops

Or, Map as Party
Fallout
Norman Dennison, director of Geographers' A-Z Map Company, confirms that Lye Close is a lie, which will now be removed. "The idea is to put something on the map to protect copyright," he says. "We try to put it in an area or a part of a road which would not be misleading to the ordinary person in the street. They have been put in out-of-the-way places."
Postcodes
Preliminary Kernel Density Values of FreeThePostcode data distribution.

Based on the distribution of FreeThePostcode point data on 12th August 2006.

Licensed under the Creative Commons Attribution-ShareAlike 2.0 License.
John Boyd's OODA Loop

- **Observe**
  - Unfolding Circumstances
  - Outside Information
  - Implicit Guidance & Control

- **Orient**
  - Observations
  - New Information
  - Previous Experience
  - Genetic Heritage
  - Cultural Traditions
  - Analysis & Synthesis

- **Decide**
  - Implicit Guidance & Control
  - Decision (Hypothesis)

- **Act**
  - Action (Test)
  - Unfolding Interaction With Environment
  - Feedback

Flow:
- Observe → Orient → Decide → Act → Observe
- Feedback loops:
  - From Orient to Observe
  - From Decide to Act
  - From Act to Decide
  - From Decide to Decide
  - From Observe to Observe
Coase’s Penguin
(Yochai Benkler)

Commons-based Peer Production:

• Non-monetary motivation
• Discrete multi-size pieces
• Low-cost integration
Coase’s Penguin
(Yochai Benkler)

Commons-based Peer Production:

- Fun
- Takes 5 minutes
- Easy
Comparing US to rest of planet
US GeoData Market

Price

‘Quality’

100 ‘%’

TIGER-derivative

e etc
EU GeoData Maket

Quality

Price

100 ‘%’
We’ve seen this before
Quality

Price

OS Market

Linux

Windows

(Think price per feature)

‘Quality’

100 ‘%’
• Consultancy
• Development
• OpenStreetMapData (cleaned, nice formats)
• Proprietary data, using OpenStreetMap tools (much cheaper)
Thank you

Steve Coast

www.cloudmade.com

steve@cloudmade.com