#### OpenStreetMap Through the Years

#### Kate Chapman Chairperson OpenStreetMap Foundation



#### Maps are Important

### Well...really geospatial data is important. Maps are a product of that data.



#### John Snow's Cholera Map





### The Beginning

In 2004 map data was very expensive. This was certainly the case in the UK with the Ordnance Survey

University student Steve Coast decided to make his own map.



#### OpenStreetMap was born

## People began using GPS to map their communities

### Remember this is 2004 "everyone" wasn't walking around with a GPS in their pocket



#### The Vision

## To create a free map of the entire world.

## Made by the people making up that world. ← me editorializing



#### Free Maps and the Cake Test

geographic data, or a map, is open only if someone can make you a gift of a cake with your map on it. - Iván Sánchez Ortega



"

### Map Cakes



#### What makes up OSM?

#### Nodes, Ways and Areas



Node : basic element Latitude & longitude Used for POIs

Way : ordered interconnection of nodes Used for linear features

Closed Way : first and last nodes of the way identical Used for areas

Relation : group of any primitives with associated roles Used for relationships between objects and abstract objects



### Key/Values

Most geographic data is made up of "layers"

OpenStreetMap is unique in that all the data is together, you can make layers from it, but it isn't always easy because of the crowdsourced nature of the data structure

horse=yes where is horse =no?



#### Major Milestones

(I probably missed something)



2004

## Domain registered, website up and first mailing list post



#### Isle of Wright - 2006

### 30 mappers convened to map the Island and get to know each other



#### The OpenStreetMap Foundation

Established to encourage the growth, development and distribution of free geospatial data and provide geospatial data for anybody to use and share.



#### The Rails Port

# The basis of the OpenStreetMap API today.

## (funny how names stick around, isn't it?)



#### First OSM Companies Founded

## GeoFabrik and CloudMade

## 50% of these still provide OpenStreetMap services



#### JOSM





#### Yahoo Imagery

### In December 2006 Yahoo confirmed OpenStreetMap could use its imagery for tracing for map production.



#### First State of the Map – 2007 Manchester





#### Mapnik





#### Potlatch

Potlatch is an online visual editing that appeared on the OSM home page in 2007 to make it easier for users to get started.



#### GPS2Go





Image: Mikel Maron

#### 2009 Gaza Mapping

#### Mikel Maron :: Building Digital Technology for Our Planet

#### Gaza OpenStreetMap

**Brain Off** 

January 5, 2009 at 8:05 pm · Filed under openstreetmap

We're making a push to get up to date maps of Gaza in OpenStreetMap. UN agencies, NGOs, web sites are requesting better maps of the crisis. For one, we are looking to re-activate the partnerships and routing services developed in Haiti last year. AidWorkerDaily has a quick survey of mapping API coverage right now.



Anyone interested in assisting with OpenStreetMap work in Gaza, please get in touch. Using the OSM wiki to coordinate: OpenStreetMap WikiProject Palestine Gaza.

WEB SEARCH

YAHOO! LOCAL

Mikel is at home in San Francisco. mikel Mikel Maron stuff » Art and Geometry of Sri Yantra GeoRSS Mapstraction Mapufacture My Yahoo! myRadio OpenStreetMap Resume / CV WaterWiki World as a Blog worldKit Meta » Email: mikel maron yahoo com Entries RSS Comments RSS Search Archives »

#### And again in 2014



#### Haiti Earthquake (2010)



#### OpenStreetMap and Contributors CC-BY-SA

### Haiti Earthquake (2010)





Image: Craig Luecke

#### Humanitarian OpenStreetMap Team

- 2006 is an idea
- Started going to Haiti in response to the earthquake
- Become an organization August 2010
- Began working in Indonesia to pre-map in 2011
- Today supporting humanitarian and international development projects around the world



#### OSM in Indonesia



#### Nepal Earthquake 2015





Image: Kathmandu Living Labs

#### License Change

#### CC-BY-SA $\rightarrow$ ODbL (Open Database License)



#### iD



#### Moves from Google

Margaret Street

Benito'

#### SWITCH2OSM

#### MAKE THE SWITCH TO OPENSTREETMAP

#### **Rich data**

OpenStreetMap data is rich and detailed, containing huge amounts of data which is relevant to people on the ground - the people who collected it.

Features include:

- · Roads, railways, waterways, etc...
- Restaurants, shops, stations, ATMs and more.
- · Walking and cycling paths.
- Buildings, campuses, etc...

WHY SWITCH? CASE STUDIES THE BASICS USING TILES SERVING TILES OTHER USES PROVIDERS FIND OUT MORE

La Tasca

#### Home

17

John prince

#### Take back control of your maps

D

All Bai

One

Mustard

Cafe

Nargaret Street

Fresco

Do your maps look like everyone else's? Are you paying high fees just to include maps on your website?

Í

Victoria Line

1

e & The Juice

Regent Stree

Switch to OpenStreetMap and discover how you can build beautiful maps from the world's best map data. We give you the data for free; you can make any map you like with it. Or benefit from the expertise of those already using OpenStreetMap. Host it on your hardware, or elsewhere. You have control.

switch2osm.org explains how to make the switch - from first principles to technical howtos.

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		anet.osm



#### White House Mapathon





#### More Imagery

- State Department Provides Imagery
- DigitalGlobe Provides Imagery
- Airbus
- Planet
- World Bank
- And others



#### Map Coloring Books!



#### Local Chapters

## 2016 was the first Chapters Congress at State of the Map

#### Local Chapters are officially recognized and have an agreement with the OSM Foundation



#### Corporate Membership


## The Pineapple Fund





# User Growth (registered users)

- 2005 1,000 users
- 2007 10,000 users
- 2007 20,000 users
- 2009 100,000 users
- 2010 200,000 users
- 2013 1,000,000 users
- 2015 2,000,000 users
- Today ~5,000,000 user



## The OSM of Today

Still a community mapping themselves, but has grown to be much, much more.

Like many other free projects we are not without tensions.



# OSM of the Future

- More data available from sensors (hopefully)
- Defined the place for automated mapping
- More editors from all over the world
- More users
- More community
- More map cakes!



## Join Us



### CC-BY-SA Francesco Giunta



# Start Mapping

# Go to OpenStreetMap.org and get an account. Then map what you know.



## Start Coding

Without our tools we wouldn't have a way to make a map, use a map or get data out. (And probably a million other things people have thought to do with OSM)



# Start Organizing

# Host a Mapathon, Mappy Hour, or Mapapalooza, Mapstock, or whatever other fun event you want to stick the word "map" on



## Become a Member

# join.osmfoundation.org



**OSMF Membership** 

START YOUR MEMBERSHIP HERE

Home

Normal Membership Associate Membership Corporate membership Fee Waiver Program

#### Become a member!

The OpenStreetMap Foundation needs you as member. Members are vital to our project and we welcome all who supports our goals to join us. We look forward to welcoming you to the Foundation!

#### Why should you join?

- Keep OpenStreetMap's servers running. OpenStreetMap is the world's biggest usergenerated map, free for everyone to use. Our volunteer sysadmins rely on the OSM Foundation to provide the server hardware.
- Influence the future direction of the project. Vote in the annual OSM Foundation elections for the board that steers the project.
- Support our volunteer working groups. Our <u>Working Groups</u> keep OpenStreetMap safe from vandalism and legal threat, resolve licensing issues, organise conferences, keep our hardware and software up to date, any many other things.
- Show your support for OpenStreetMap.

We have three membership classes: Normal (£15), Associate (£15) and Corporate (€500 to €20,000).

About 70% of our members are normal members. In short, normal membership gives you more voting rights, associate membership gives you more privacy, corporate membership is for organisations.

# Upcoming Events

### State of the Map 2019 in Heidelberg, Germany 21-23 of September

## State of the Map US 2019 in Minneapolis, Minnesota 5-8 September



## Thank you to the FSF



### Free Maps Power Free Software

After all you can't use free map software to make maps without data. People used to use samples of proprietary data mostly.



## Thank you to the OSM Community



## Thank You

# Kate Chapman kate@osmfoundation.org

