

# State of OSM



# Indonesia



# State of OSM



Indonesia





Hi,

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**Project Coordinator**

**@ Humanitarian OpenStreetMap Team Indonesia**



Adityo



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## Past (2011-2014)

- Increasing people awareness about OSM
- Increasing number of OSM data in Indonesia
- Increasing number of OSM user in Indonesia
- Building OSM Community for Indonesia
- Using OSM data for DRR



Hazard



Impacts &  
actions



InaSAFE  
[www.INASAFE.org](http://www.INASAFE.org)



Exposure



Maps

# *HOT Pilot Project - 2011*

## 1. OSM Socialisation Workshop & Mapping Competition

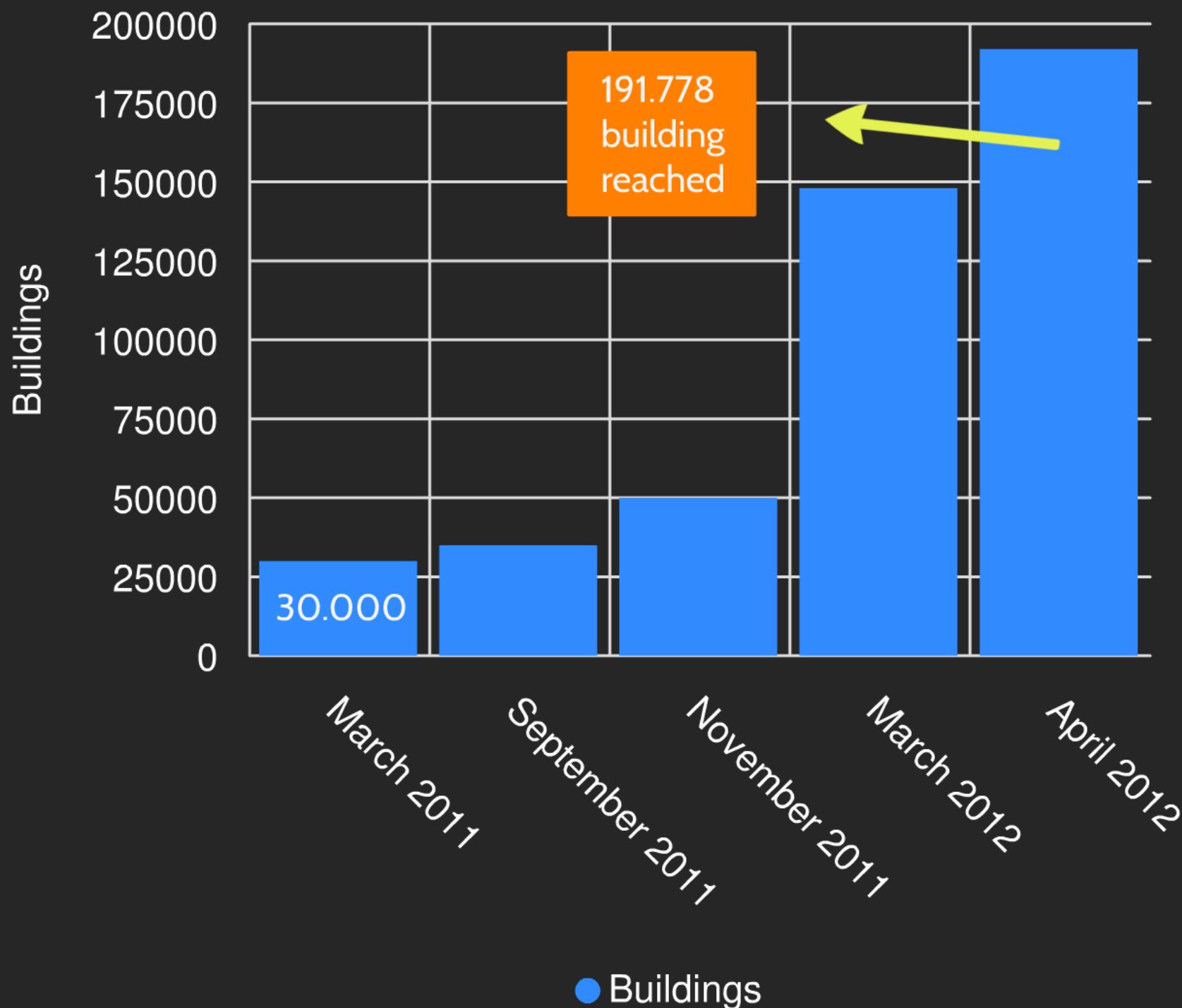


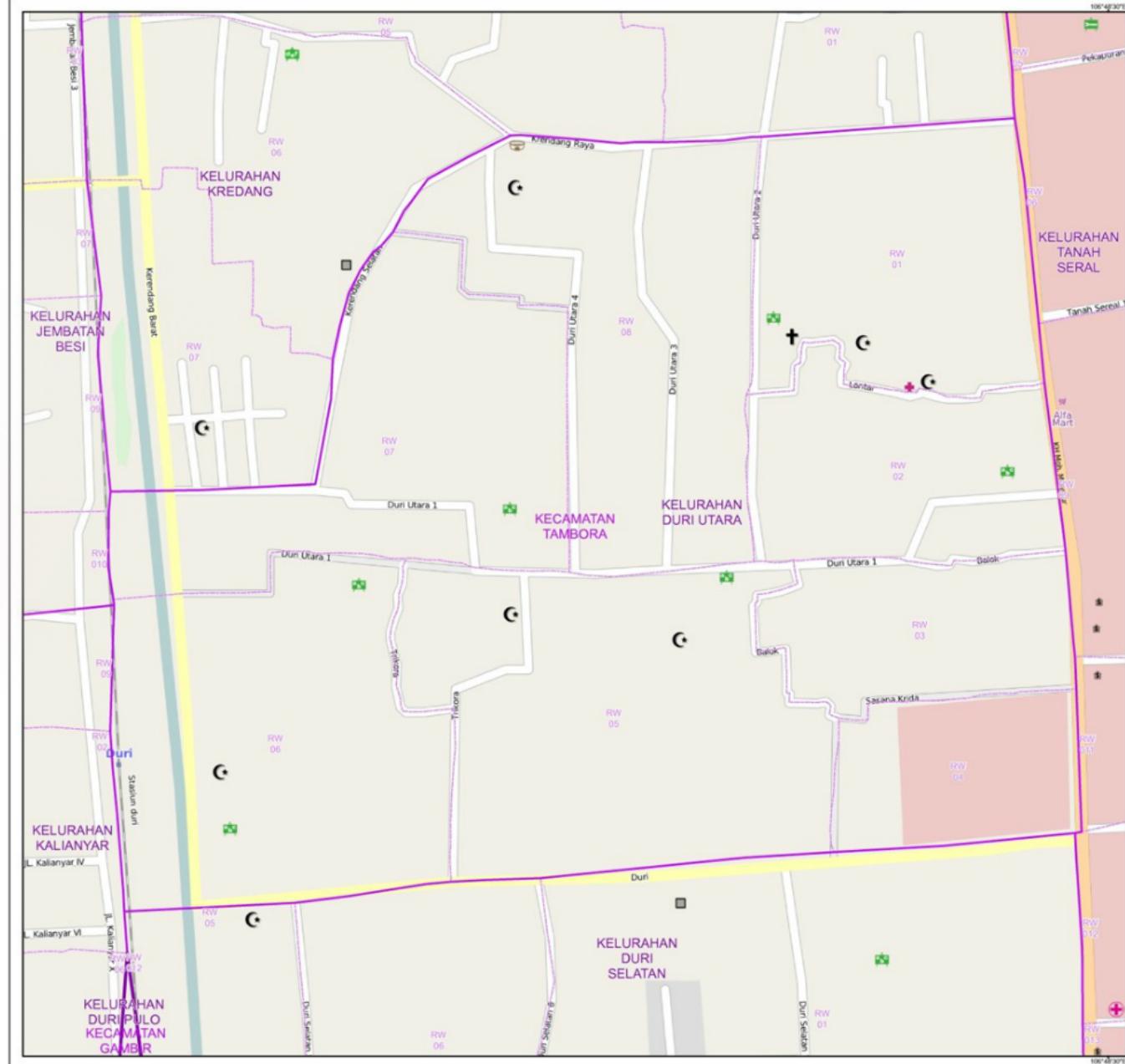
## 2. Rural areas mapping with ACCESS



# Jakarta Mapping RW Boundary Project







## PEMERINTAH DAERAH DKI JAKARTA BADAN PENANGGULANGAN BENCANA DAERAH (BPBD)

Data pada peta ini disusun secara partisipatif oleh Lurah dari Kelurahan Duri Utara dengan bantuan dari mahasiswa Universitas Indonesia menggunakan media OpenStreetMap dalam pelaksanaannya diukur oleh BNPB, BPBD DKI Jakarta, Kota Administratif Jakarta Barat, AIFDR dianai oleh AusAID, UNOCHA, World Bank-GFDRR, Universitas Indonesia dan HOT.

### KELURAHAN DURI UTARA KEC AMATAN TAMBORA JAKARTA BARAT



Proyeksi : Spherical Mercator  
Datum : WGS 1984  
Tanggal : 20/04/2012

Sumber Data:  
OpenStreetMap ([www.openstreetmap.org](http://www.openstreetmap.org))  
© OpenStreetMap contributors, CC BY-SA  
(<http://www.openstreetmap.org/copyright>)

Informasi lebih lanjut hubungi: Badan Penanggulangan Bencana Daerah (BPBD) DKI Jakarta, Jalan Merdeka Selatan No. 8-9 Blok F Lantai 2, Telp. 3622016 Fax. 3441233

### LEGENDA

Fasilitas Umum	Transportasi	
	Jalan Provinsi	Jalan Mayor
Rumah Sakit	Jalan Primer	Jalan Sekunder
Puskesmas	Jalan Tersier	Jalan Lokal
Pemadam Kebakaran	Rel Kereta	
Bangunan Publik		
Kantor Polisi		
GOR		
Masjid		
Gereja		
Pura		
Vihara		
Taman Kanak-Kanak		
SD		
SMP		
SMA		
SMK		
Universitas		
Administrasi		
Batas RW	Batas Kelurahan	Batas Kecamatan
Batas Kelurahan	Batas Kecamatan	Batas Kota Administratif
Batas Kecamatan		
Batas Kecamatan		



Didukung Oleh:



Disklaimer:  
Batas administratif dan nama wilayah yang ditampilkan dalam peta ini bukan merupakan pendapat resmi dari pihak-pihak yang menitikberatkan kegiatan ini.

# *Scenario Development for Contingency Plan (SD4CP) 2012-2013*

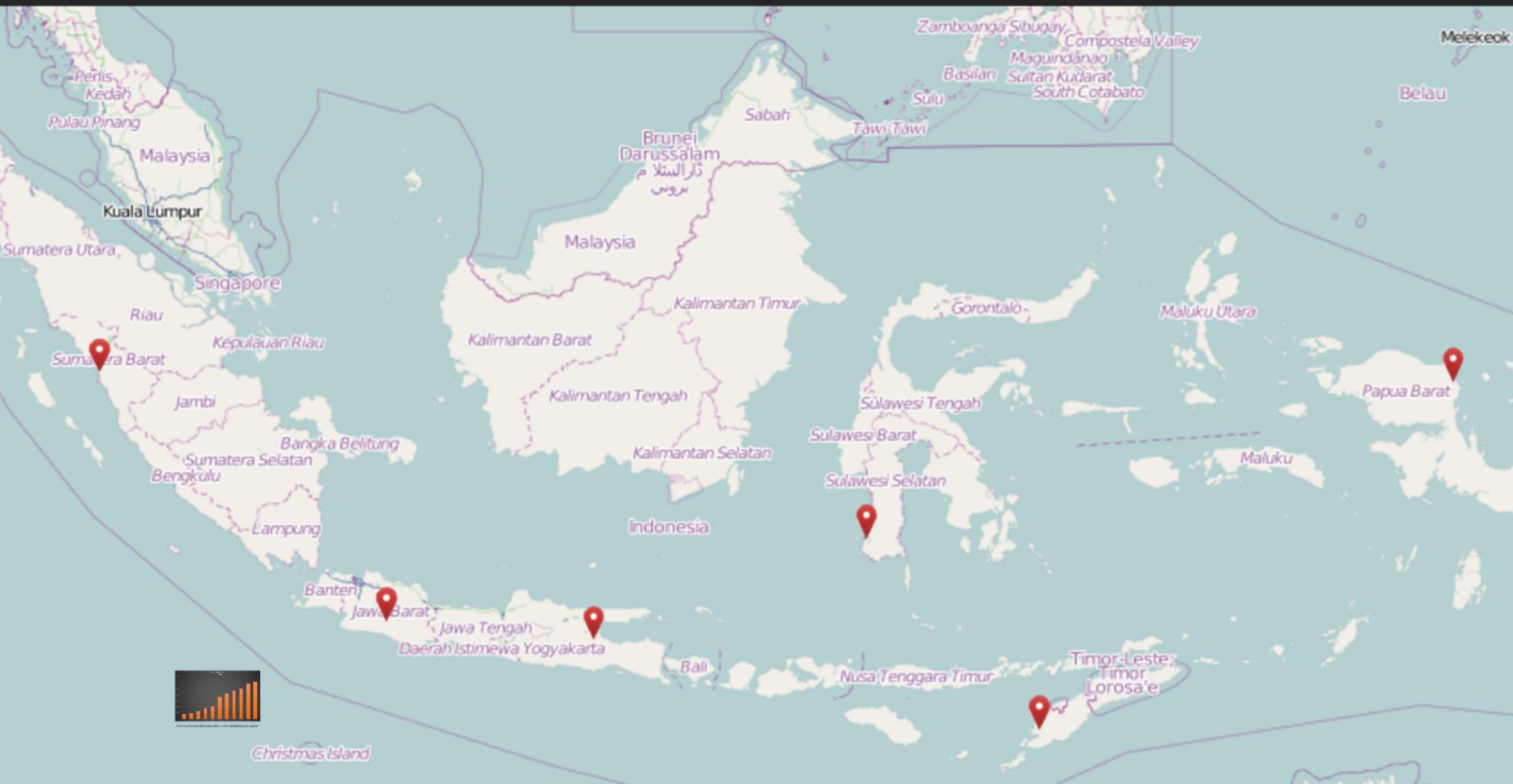


Most of participants:  
BPBD → Regional Disaster  
Management Agencies

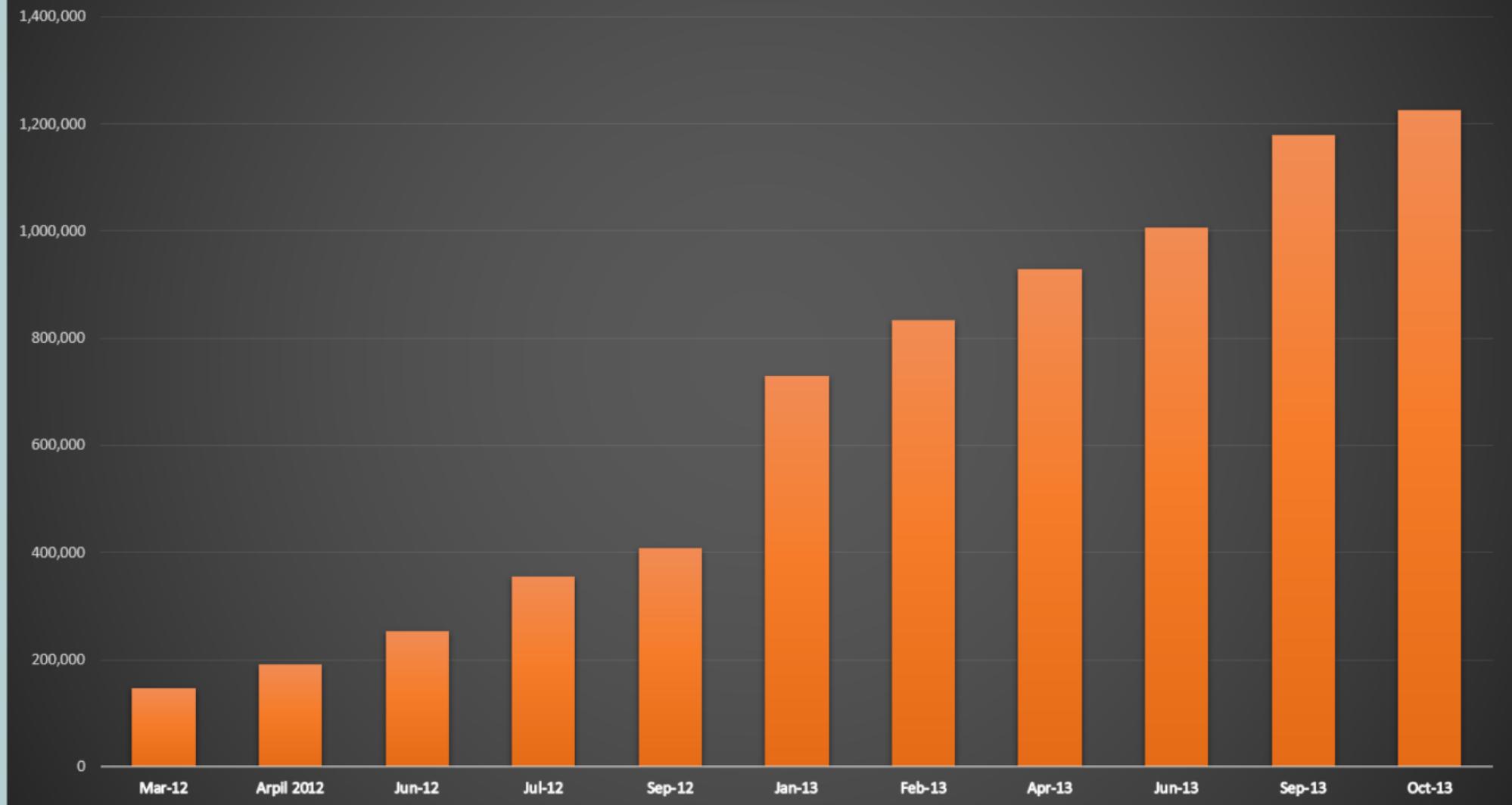


Beginner level  
Intermediate level



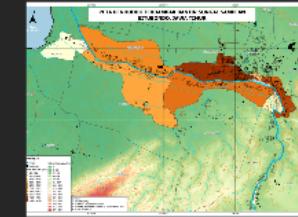
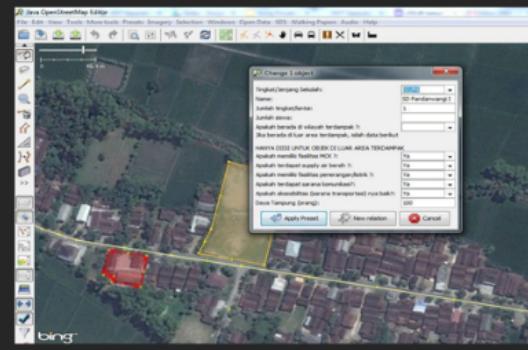
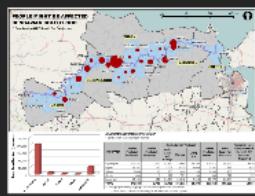


### Building vs Date 2012-2013



From March 2012 until October 2013, 1.079.028 buildings data gained

# Bengawan Solo Contingency Planning, East Java



# PEOPLE MIGHT BE AFFECTED

## BENGAWAN SOLO FLOOD

\* Based on InaSAFE Result. For Details, see

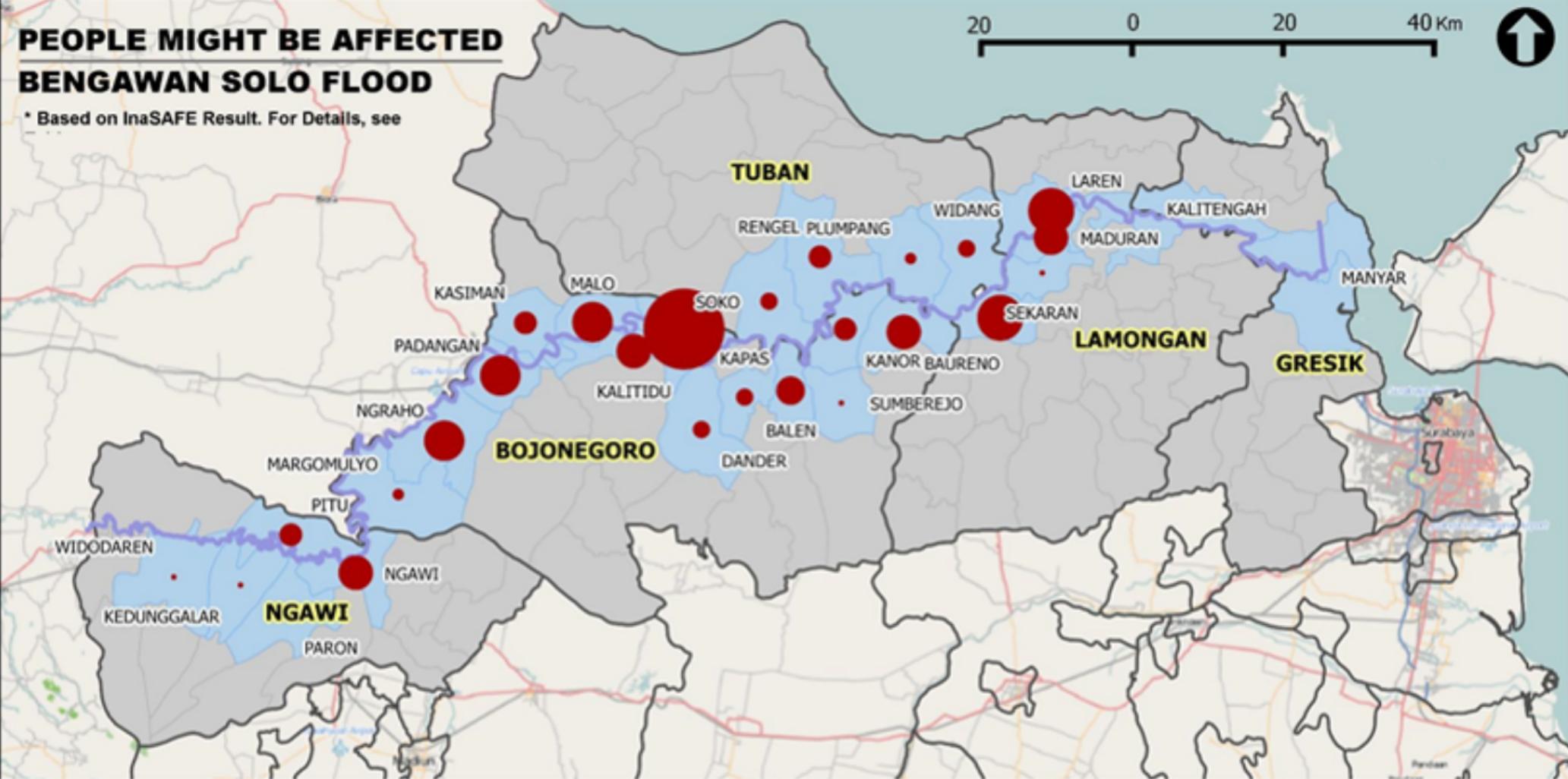


20

0

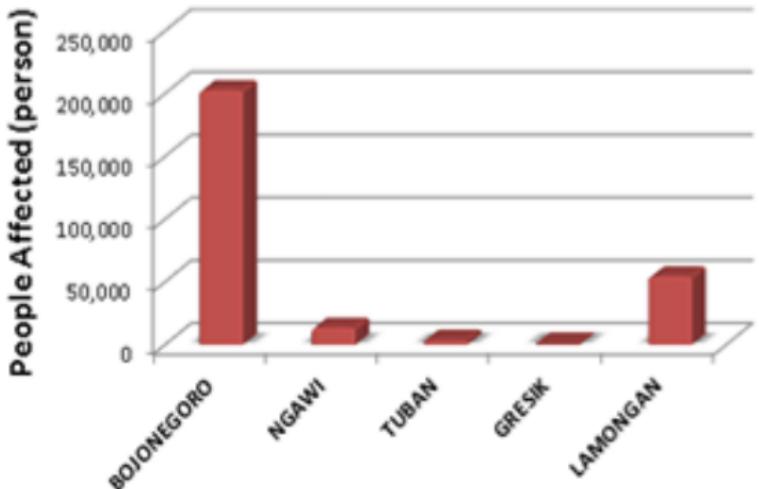
20

40 Km



### JUMLAH PENDUDUK TERDAMPAK BANJIR \*

\* Berdasarkan analisis dengan InaSAFE



KABUPATEN	Jumlah Penduduk Terdampak	Jumlah Penduduk Mengungsi **	Rincian Jumlah Penduduk			Jumlah Penduduk Wanita ***	Paket Kebersihan Mingguan	Tambahkan beras mingguan untuk ibu hamil dan menyusui (kilogram )
			Anak-Anak s.d. Remaja	Dewasa	Orang Tua			
Bojonegoro	202,821	2,000	53,342	133,659	15,802	101,411	80,490	9,450
Ngawi	13,701	130	3,603	9,029	1,069	6,851	5,437	638
Tuban	3,669	30	965	2,418	286	1,835	1,456	171
Gresik	803	8	211	529	63	393	312	37
Lamongan	54,540	540	14,344	35,942	4,254	27,270	21,644	2,541
<b>TOTAL</b>	<b>275,534</b>	<b>2,708</b>	<b>72,465</b>	<b>181,577</b>	<b>21,474</b>	<b>137,760</b>	<b>109,339</b>	<b>12,837</b>

\*\* Dengan perkiraan pengungsi 1% dari jumlah penduduk terdampak

\*\*\* Jumlah penduduk wanita dihitung berdasarkan sex ratio kabupaten



: 18.000

## PETA PENDUDUK TERDAMPAK BANJIR SUNGAI SAMPEAN SITUBONDO, JAWA TIMUR

113-3796

113°58'30"E

114709E

3347307

27

A choropleth map titled "Wilayah Ketinggian (m)" showing population density across different elevation ranges in Sungai Bangunan. The map uses color-coded squares to represent population counts for each elevation bracket. The legend on the right lists the elevation ranges and their corresponding population counts.

Wilayah Ketinggian (m)	Populasi Penduduk (jiwa)
0	15 - 721
0 - 21	721 - 1186
22 - 42	1186 - 1186
43 - 64	1186 - 1820
64 - 85	1820 - 3667
86 - 107	3667 - 3874
108 - 128	3874 - 3918
129 - 150	3918 - 4185
151 - 171	4185 - 4454
172 - 192	4454 - 17681
193 - 214	
215 - 235	
236 - 257	
258 - 278	
279 - 300	

Sumber:  
1. OpenStreet  
2. BAPPEDA  
3. WorldPop  
4. SRTM, CG

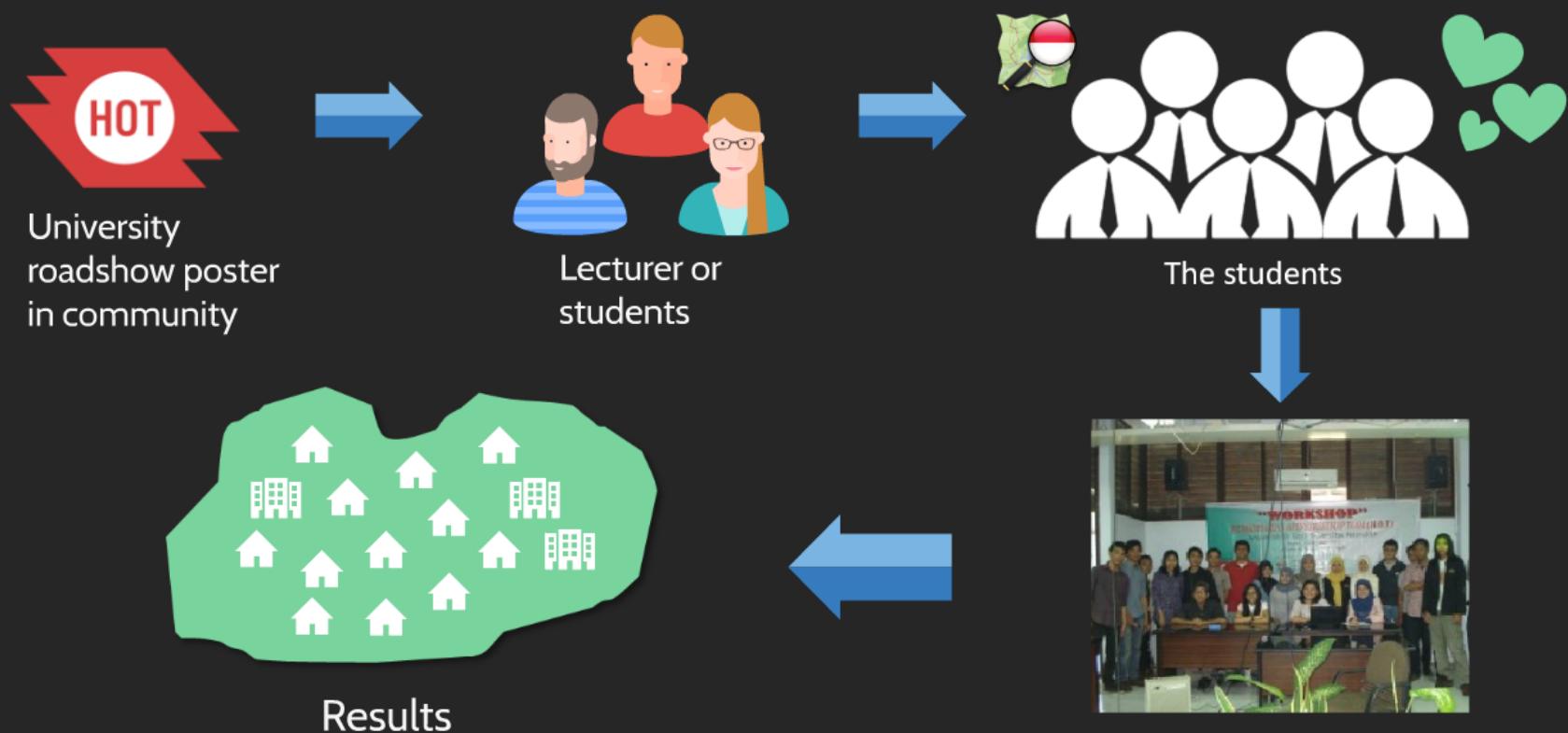
113-5797

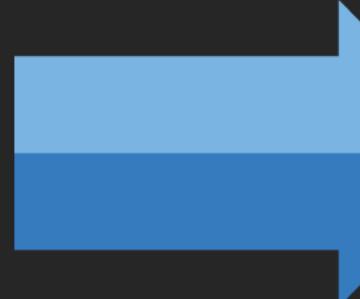
113°58'30"E

11400E

114°30'E

# *University Roadshow - 2014*





University  
roadshow poster  
in community



Lecturer or  
students



The students





# Results



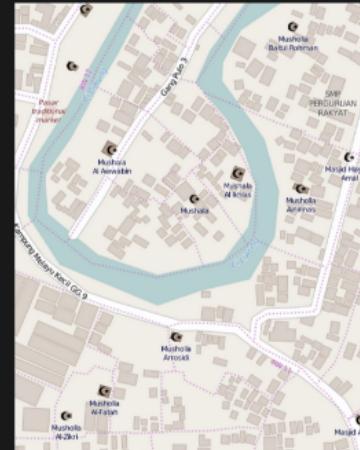
# RT Mapping in DKI Jakarta



8 People

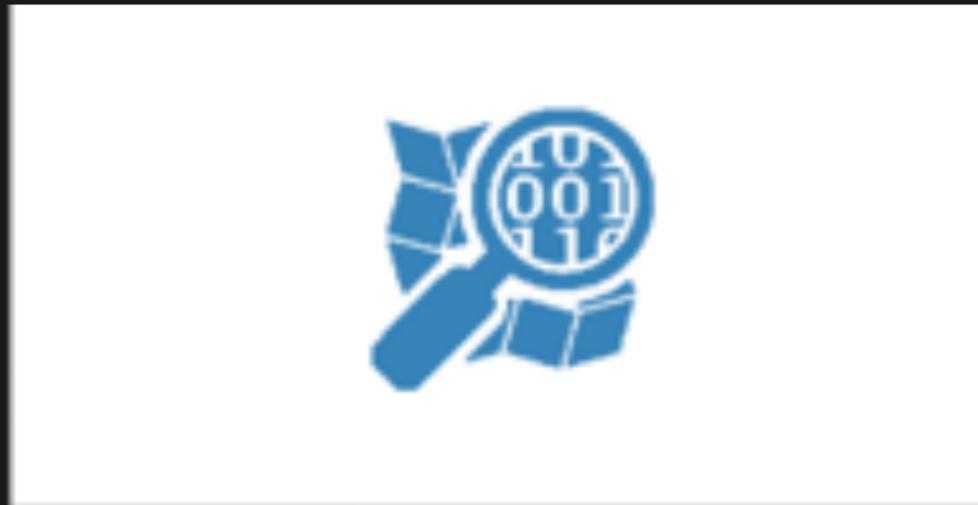
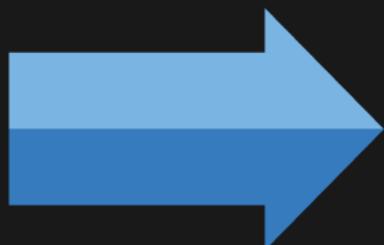


35 Chief of Villages





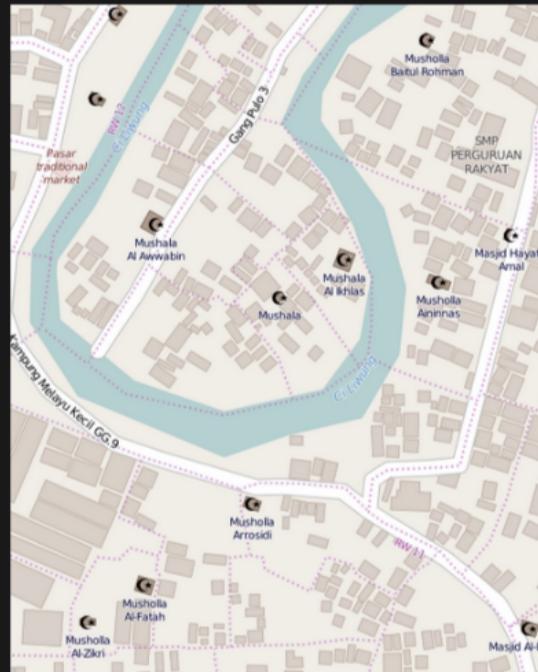
8 People



35 Chief of Villages



# of Villages



A black and white illustration featuring a man with orange hair and a beard, wearing a green t-shirt. He is looking towards the right side of the frame. A thought bubble above his head contains the text "My place is still empty". To the right of the man is a world map showing landmasses in white against a black background. A dashed line originates from the man's head and extends towards the location of Sri Lanka on the map, where a red location pin is placed.

My place is  
still empty

# Missing Maps Projects

# Rokatenda Mountain



[OSM Tasking Manager](#)

#746 - Mount Rokatenda/Paluweh/Palu'e #MissingMapsJKT

Description Instructions Contribute Activity Stats

The Missing Maps project aims to map the most vulnerable places in the world (affected by humanitarian crises, disease epidemics, conflict, natural disasters, poverty, environmental crises). Unlike HOT's disaster response activations, the Missing Maps tasks facilitate preemptive mapping of priority countries to better facilitate disaster response, medical activities and resource allocation when crises occur.

For more information on the Missing Maps, visit [www.missingmaps.org](http://www.missingmaps.org).

About Mount Rokatenda

Paluweh, also known as Rokatenda, is a stratovolcano that forms the small island of Palu'e, north of Flores Island in Sikka Regency in the province of East Nusa Tenggara, Indonesia. The volcano rises about 3,000 m (9,840 ft) above the sea floor.

Eruptions of VEI 3 have occurred in 1650 ± 50, 1928 and 1972 [2]. On 16 January 2005, there were signs of a pending eruption, causing the mountain to be placed under alert status.

Please help map this area to help official and volunteer do better preparedness and response for the disaster.

Instructions

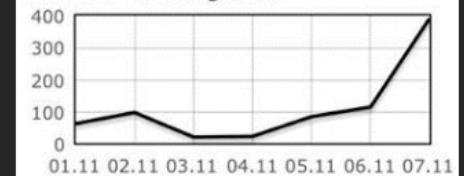
Cur. worried on (0)

Invalidated Done Validated

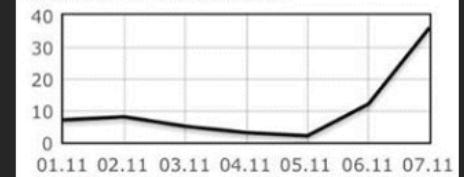
1 km 1 mi

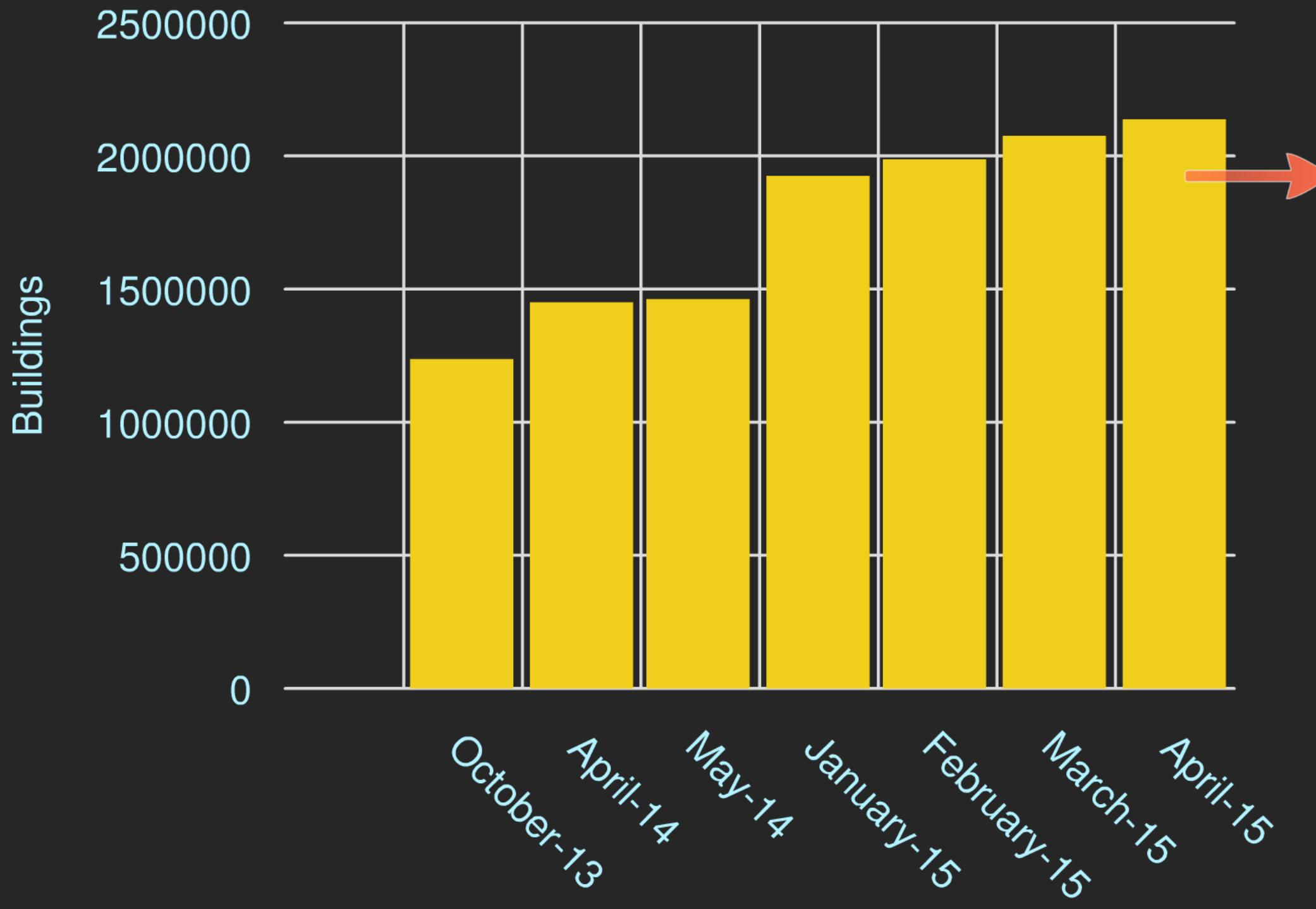
Number of OSM Contributors: 60  
Number of Map Changes: 110,432  
Total number of Changesets: 829  
(Display Limit is 4,000 Changesets)  
 hide large Changesets

## Number of Changesets



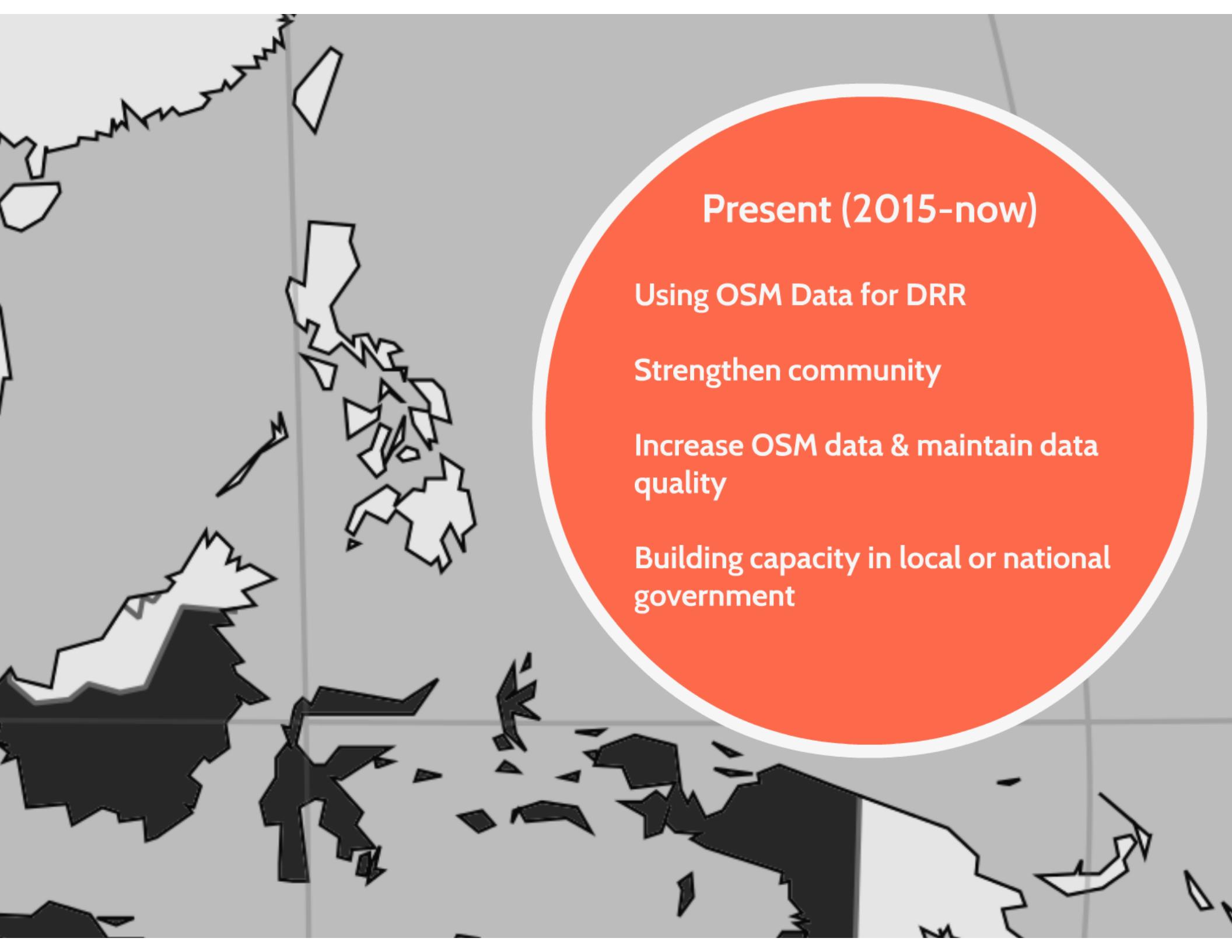
## Number of Contributors







**2.135.149 buildings  
reached in April 2015**



**Present (2015-now)**

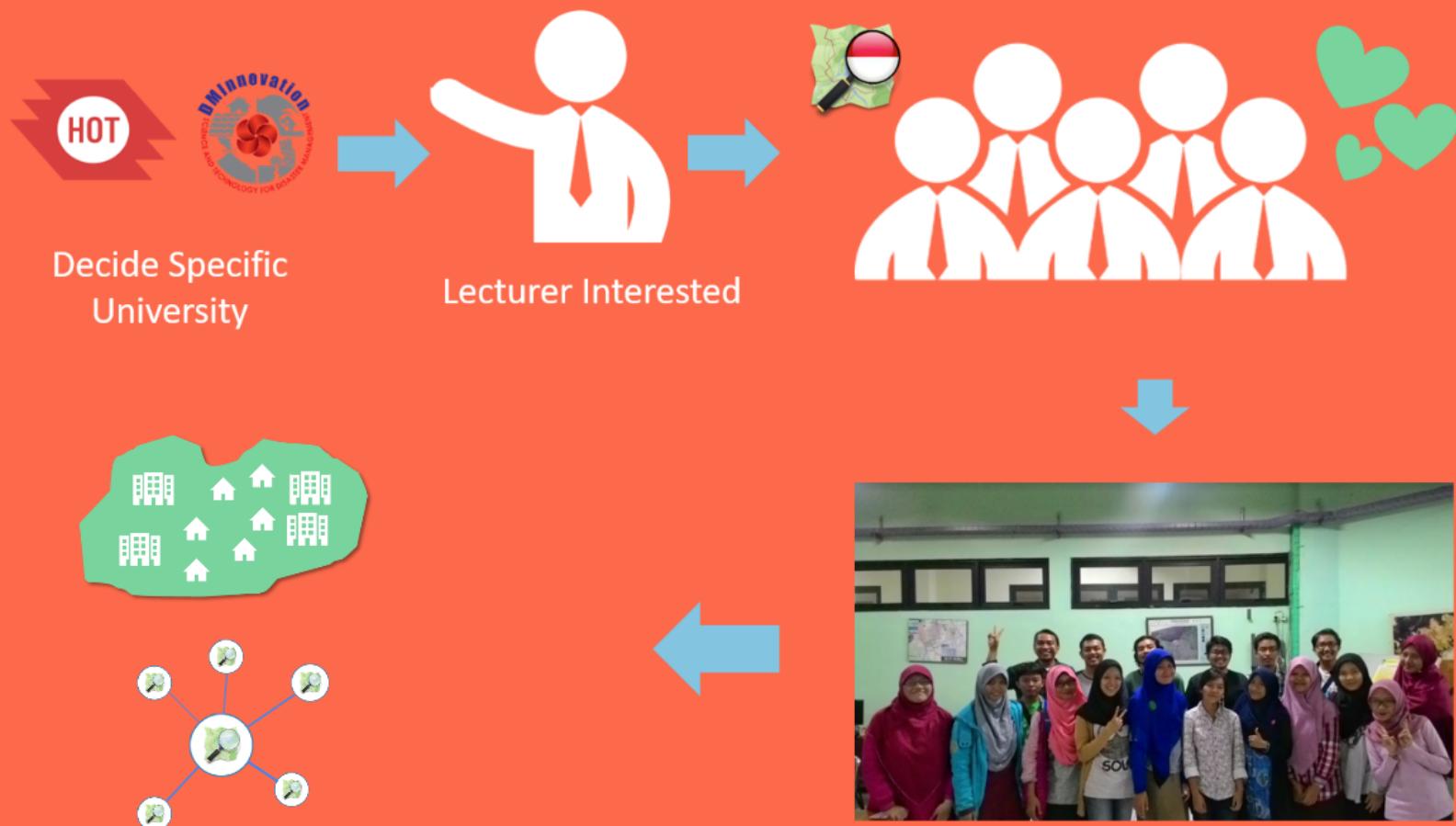
**Using OSM Data for DRR**

**Strengthen community**

**Increase OSM data & maintain data quality**

**Building capacity in local or national government**

# University Roadshow 2015





Decide Specific  
University

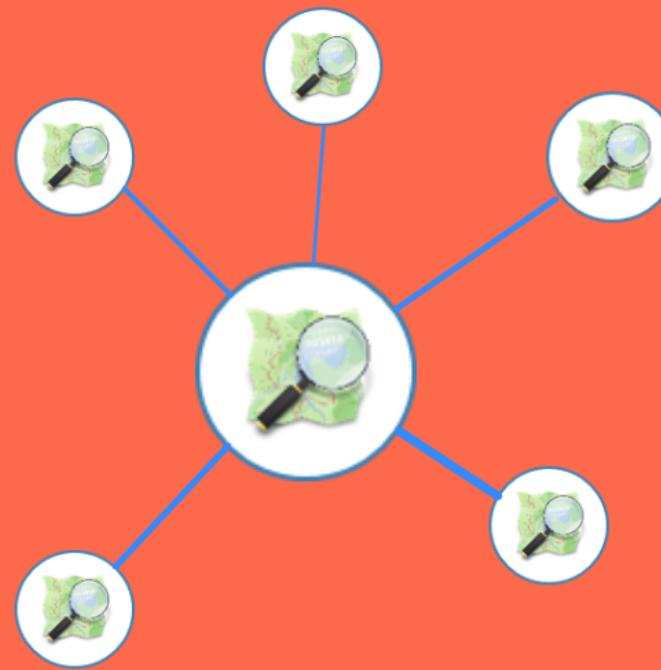


Lecturer Interested

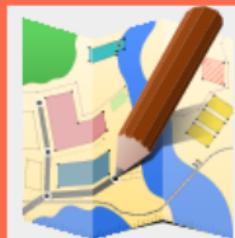


Interested





# OSM Validation and Quality Assurance



<http://keepright.ipax.at/>

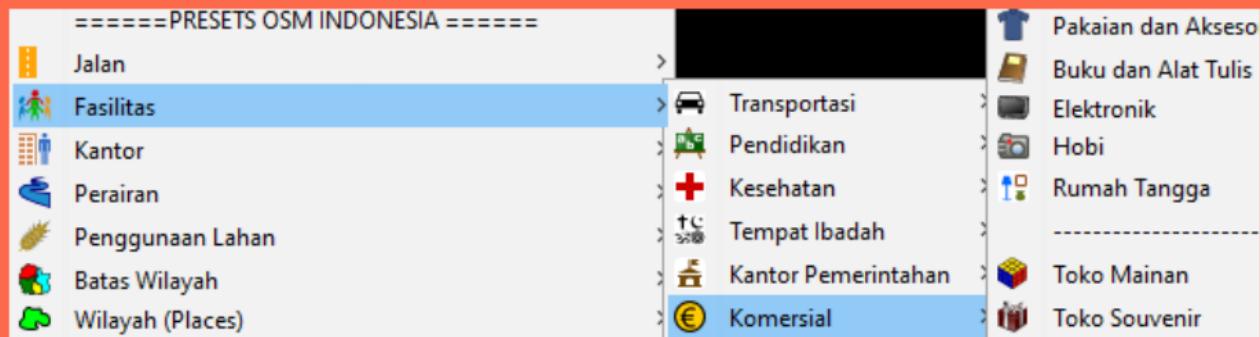


Validation Results

- Warnings
  - Area style way is not closed (22)
  - Crossing buildings (953)
  - Untagged ways (commented) (2)
  - Similarly named ways (1033)
  - Overlapping highways (23)
  - Overlapping railways (1)
  - Way end node near other highway (1)
  - Unnamed junction (3)
  - Ways with same position (2)
  - Untagged ways (151)
  - Building inside building (2)
  - Self intersecting ways (4)

Select Valid... Fix Ignore

# OSM Indonesia Presets & Tracing Guide



http://wiki.openstreetmap.org/wiki/Id:Referensi\_Atribut\_Objek\_OSM\_Indonesia

Page Discussion

OpenStreetMap Funding Drive - Please Donate Today -

## Id:Referensi Atribut Objek OSM Indonesia

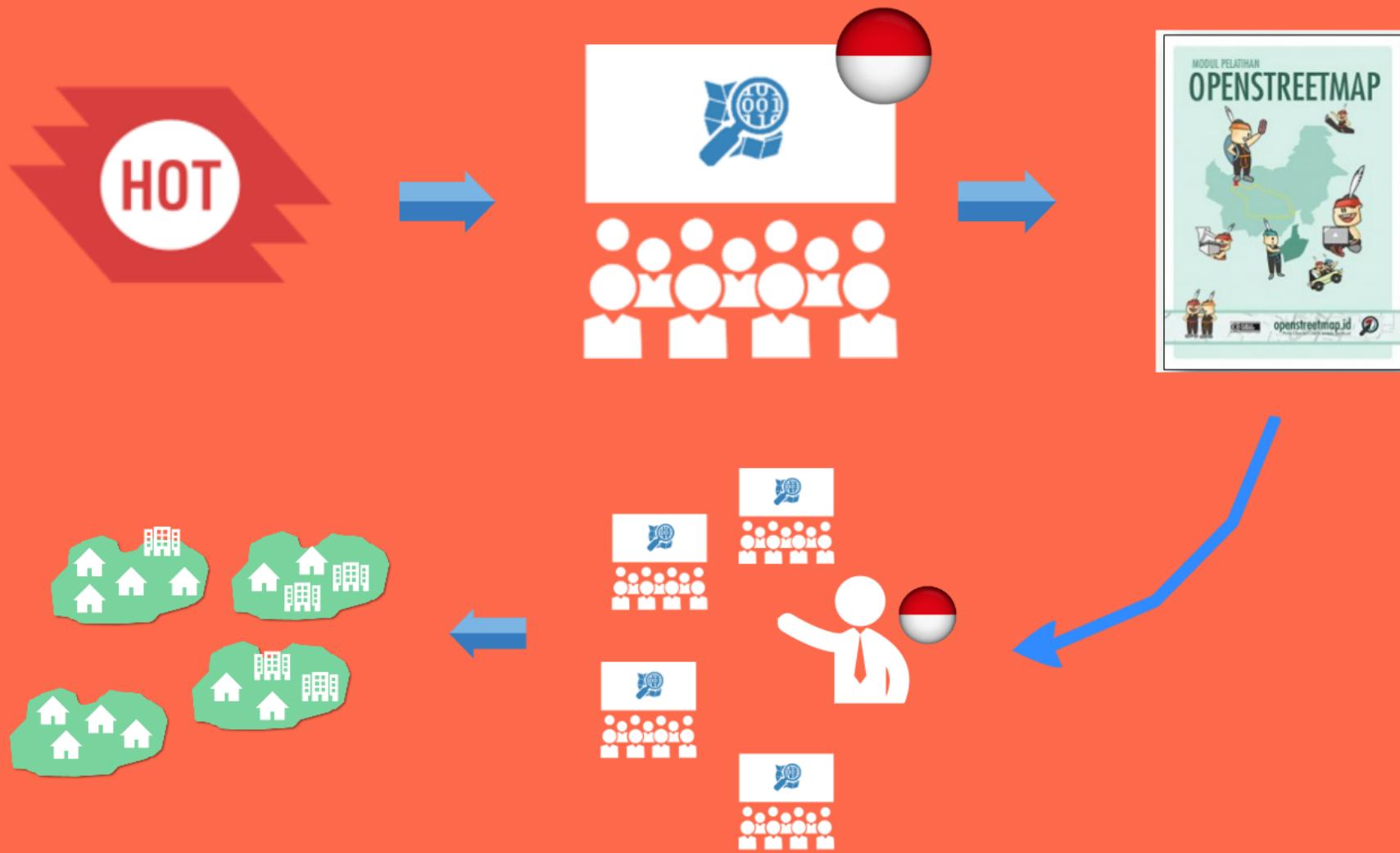
OpenStreetMap merupakan peta digital yang menampilkan berbagai macam objek yang terdapat di dunia. OpenStreetMap memungkinkan kepada para pengguna untuk memberikan tag/informasi apapun tentang objek tersebut. Hal ini penting karena ketidaksaamaan informasi terhadap objek yang ada maka OpenStreetMap telah membuat halaman Map Features dalam memberikan infomasi terhadap objek yang ditetapkan.

Akan tetapi, seiring bertambah banyaknya para pengguna OpenStreetMap di seluruh dunia maka dari Map Feature yang berisiakan informasi terhadap objek-objek di OpenStreetMap dianggap tidak terdapat di suatu negara termasuk di Indonesia. Seringkali para pengguna tidak mendapatkan informasi tentang objek tersebut karena berbeda nama. Biasanya objek tersebut memiliki nama lokal sendiri seperti Berangkat dari hal di atas maka halaman ini khusus dibuat untuk memberikan referensi atribut yang ada akan dibagi ke dalam beberapa kategori dimana akan disesuaikan pula dengan presets

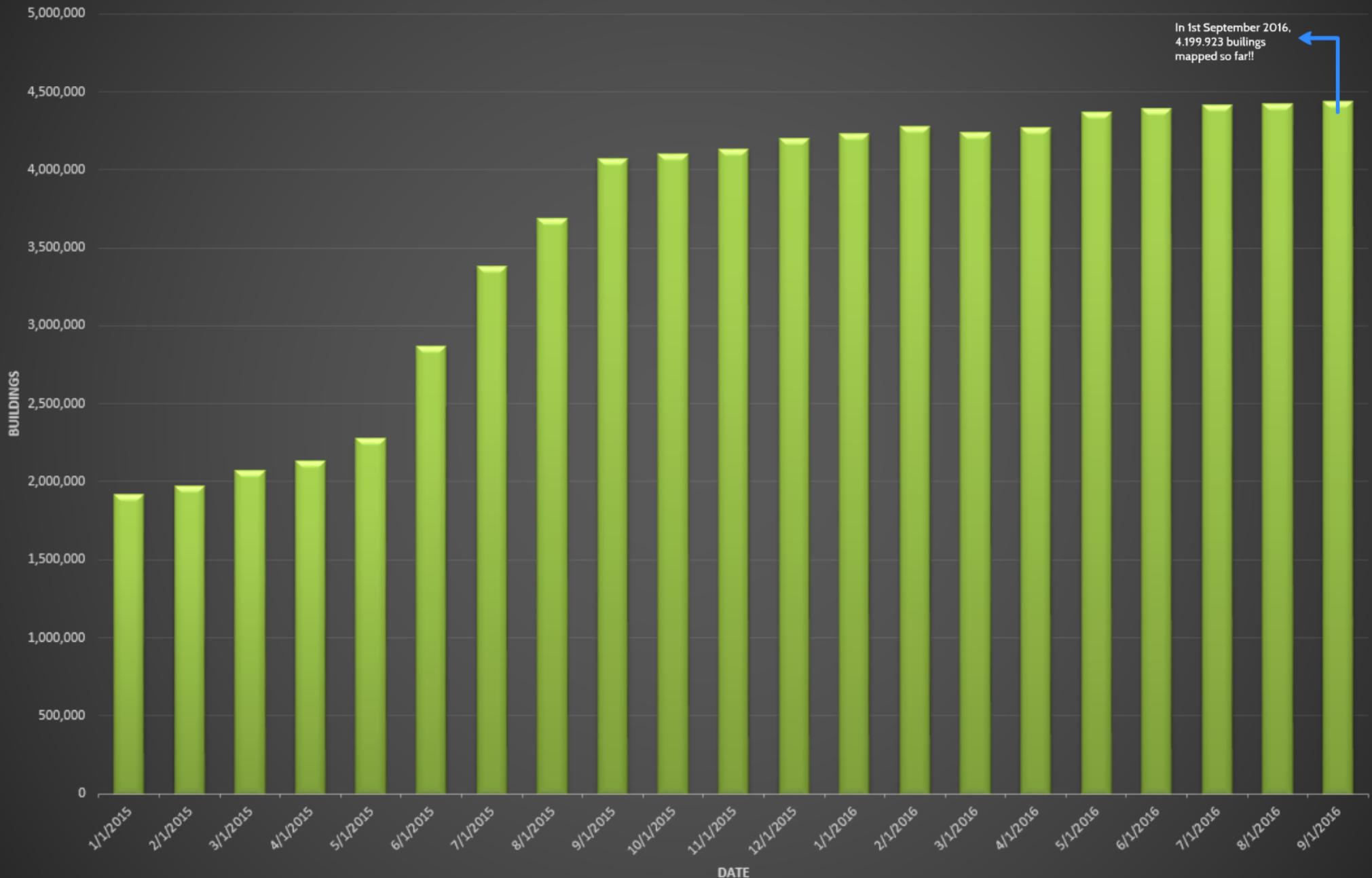
No.	Nama Objek	Jenis Objek	Deskripsi	Key	Value	Simbol di OSM	Foto
1.	Pelaku	[+/-]	Pelaku merupakan yang berbuat, melakukan atau menyebabkan sesuatu. Misalnya pelaku perbuatan, pelaku kejadian, pelaku kecelakaan	amenity	clinic		
2.	Pengada	[+/-]	Pengada merupakan yang bertanggung jawab atas pelaksanaan kegiatan. Biasanya tidak dilakukannya sesuatu hal dan hanya sedikit tidak valid	amenity	clinic		
3.	Rumah Sakit	[+/-]	Gedung tempat menyediakan dan merawat pelajaran sakit-sakitan yang meliputi berbagai macam klinik	amenity	hospital		
4.	Rumah Sakit Pemerintah	[+/-]	Rumah sakit yang dimiliki oleh pemerintah daerah atau pusat untuk mencegah kejadian penyakit	amenity	hospital		

[http://wiki.openstreetmap.org/wiki/Id:Referensi\\_Atribut\\_Objek\\_OSM\\_Indonesia](http://wiki.openstreetmap.org/wiki/Id:Referensi_Atribut_Objek_OSM_Indonesia)

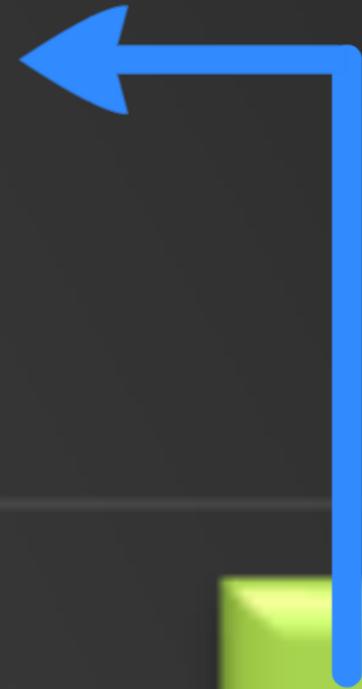
# Increasing National Disaster Management Agency (BNPB) Capacity



## Buildings vs Date



In 1st September 2016,  
4.199.923 builings  
mapped so far!!



**As of September 2016**



**118 Trainings**



**17 of 33 Provinces**



**2831 Participants**



**3.476 members**



**1030 followers**



**451 Subscribers**





**Thank you for your attention!**