



Connecting the dots: People, Data, and Technology

Presented by

Saurav Bhattarai

Tech & Innovation Lead

Kathmandu Living Labs (KLL)

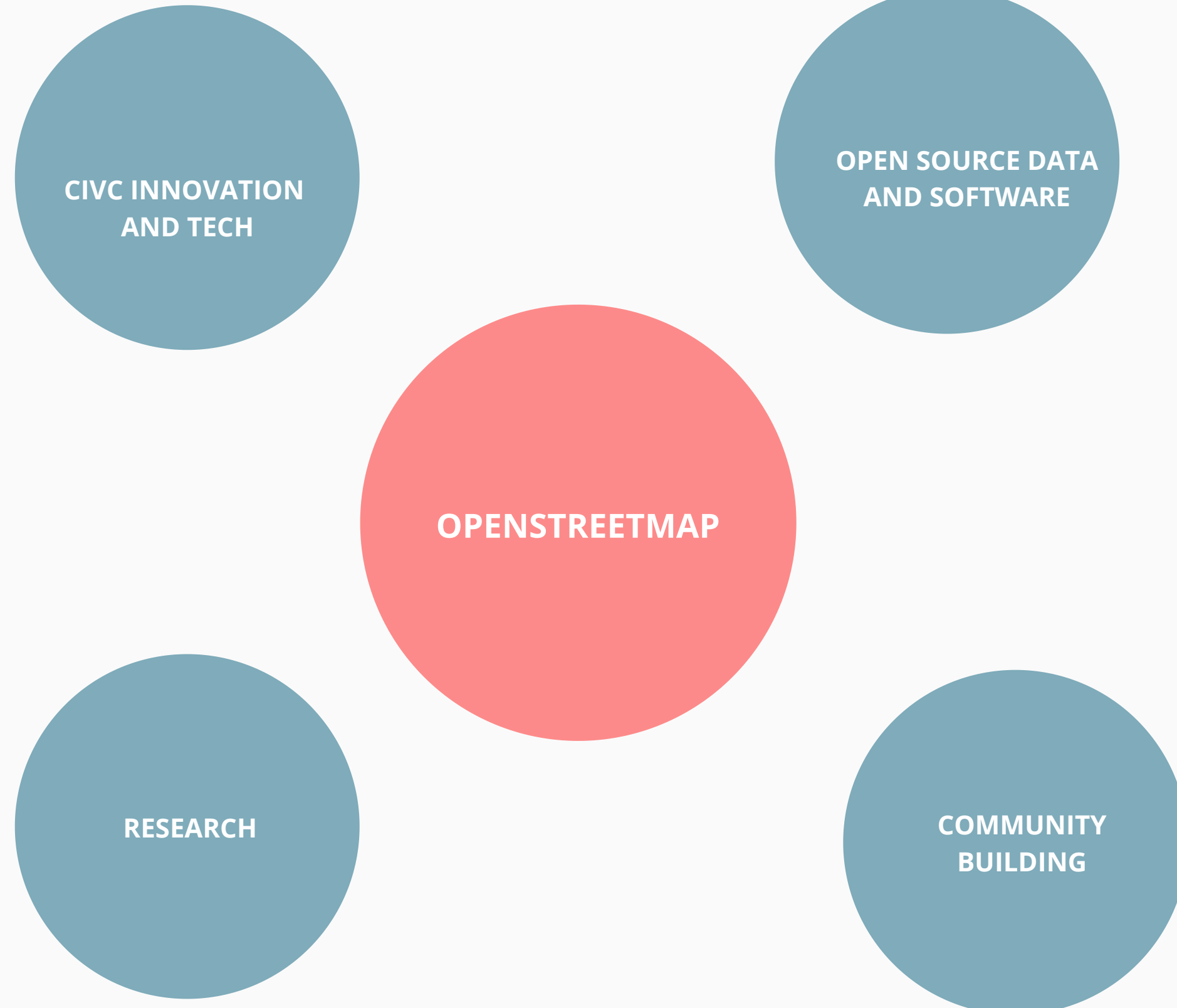
Once upon a time...

Humble beginnings

- Founded officially in 2013
- Advance the OpenMapping movement
- Aspiration to use ICT to solve the ground problems
- Spirit of open data and open mapping



Our passion and expertise



Losing our homes: Nepal Earthquake 2015

- Deployment of QuakeMap
- Coordinated over 9,000 OSM mappers all over the world
- Technical support to Nepal Government in a mobile-based survey of EQ affected districts training 3000 engineers - *1.05 million buildings, 5.5 million people, 10TB data*



Being resilient and strong

- Disaster resiliency and emergency preparedness in the secondary cities
- Capacity building in digital mapping to local and regional communities



Recent activities

Cities' COVID Mitigation and Mapping (C2M2)

- Kathmandu: Using geospatial tools and techniques to help revive the tourism sector
- Ulaanbaatar: Helping Public Lab Mongolia to develop a health portal

Recent activities

- Mapping Afghanistan (14 cities, 1.2 million buildings, 10 million HH, 25 mappers, 4 validators) and Pakistan
- Strengthening and growing OSM Nepal community
- Recurring Weekly Mapping Hour every Wednesday

Passion which mostly drives us

- Improving data and increasing the use of OSM
- Helping build and grow the OSM community
- Contribute to the OSM ecosystem through development of open source tools



OSM Before-after tool

Generate before-after maps with ease

Before-after maps are a good way to get an insight of mapping activity over time

Maharajjung, Kathmandu

Nov. 2012

Now



But why the before-after
tool? What's the need?

Normally, generating before-after maps is...



A manual process



Require some technical skills



Requires time and effort



Not all have such technical capacity

OSM Before-after tool



Aims to make this
process easier and
accessible for all



GENERATE
BEFORE-AFTER MAPS
WITH EASE

Demo of the tool: <https://beforeafter.baato.io/>

LOCATION

City, state, county, etc. ▼

MAP DETAILS

Name of this map

Compare against (year) ▼

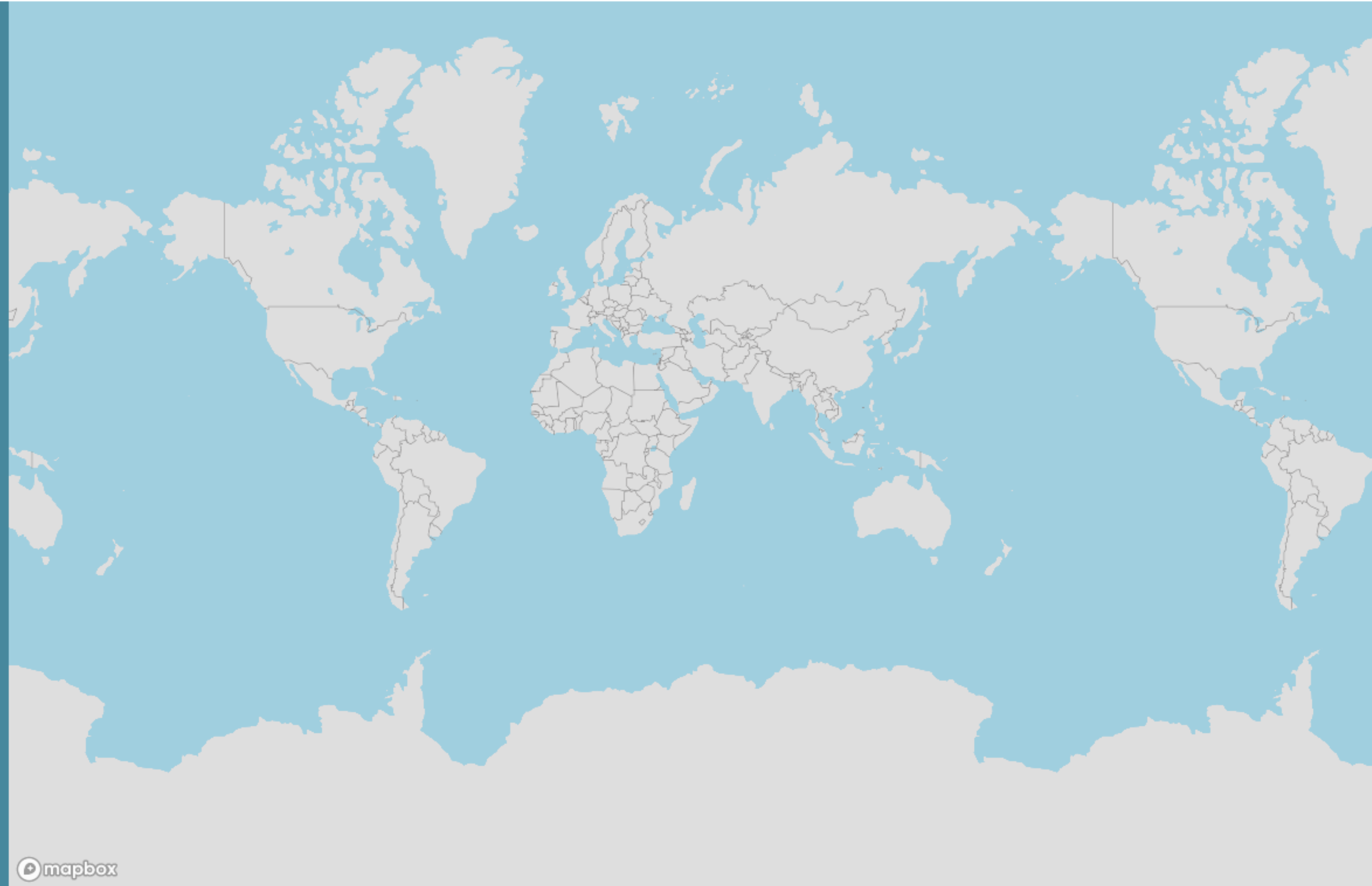
PERSONAL DETAILS

[why_personal info?](#)

Enter your full name

Enter your email address

GENERATE MAP



An example of generated before-after maps for Pokhara, Nepal: [Link to an example](#)

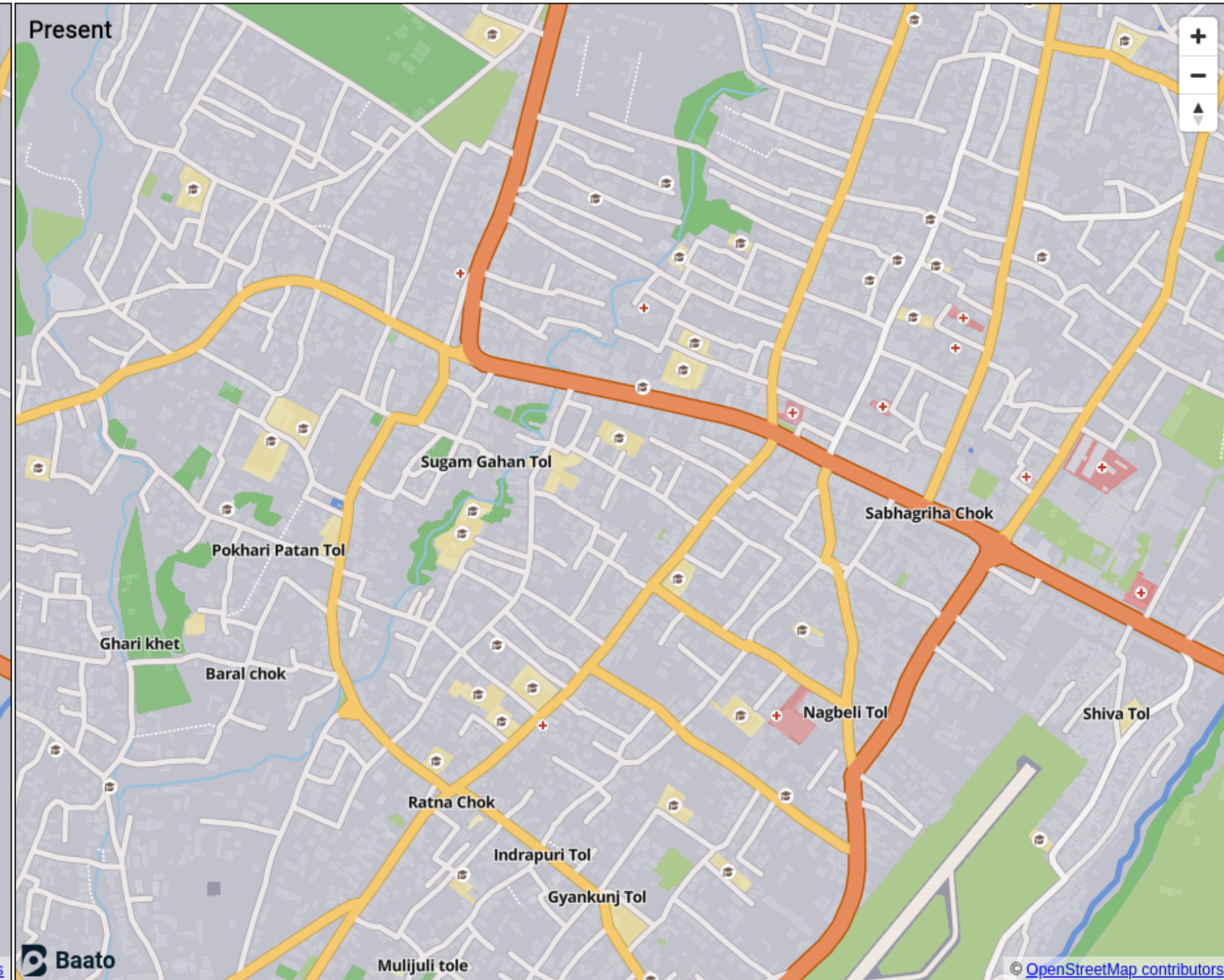
Share this on



BEFORE AFTER MAP

Pokhara

Choose map style: Retro



This map was generated using the [Before After Map Tool](#) from [Baato](#).



2hu4u · 1m

This is excellent, I've been waiting for this kind of thing to come along because the old way (downloading the planet files etc) was extremely time consuming.

Only thing I'd like to see is the standard osm-carto map style rendering implemented.

9 Reply Share Report Save



freischwimmer · 1m

That's a nice tool, and its fairly quick to generate such a map!

There are some minor issues with rendering `landuse=forest` when the landuse goes outside the requested region, but otherwise it's very nice! Thanks for providing this to the community.

6 Reply Share Report Save



askodasa · 1m

This is really awesome. Yeah, more color palettes would be a nice addition. But this is such a nice tool

1 Reply Share Report Save



joeybab3 · 1m · *edited 1m*

Generated 2 maps, cant wait to see the results.

The only thing I've noticed so far is that my city comes up as a "district" but that might just be due to regional mapping differences.

Edit: aw man both maps failed to generate :(

1 Reply Share Report Save

Enthusiastic response from the community



Current state and future plans for this tool

- Created using pre-existing open-source initiatives
- Under beta release
- Eagerly seeking feedback for improvement

**Strengthen the connection of the three dots in OSM
ecosystem**

Thank you!

You can reach out to me/us at:



<https://github.com/drklrd>
<https://twitter.com/srvbhattarai>



hello@kathmandulivinglabs.org