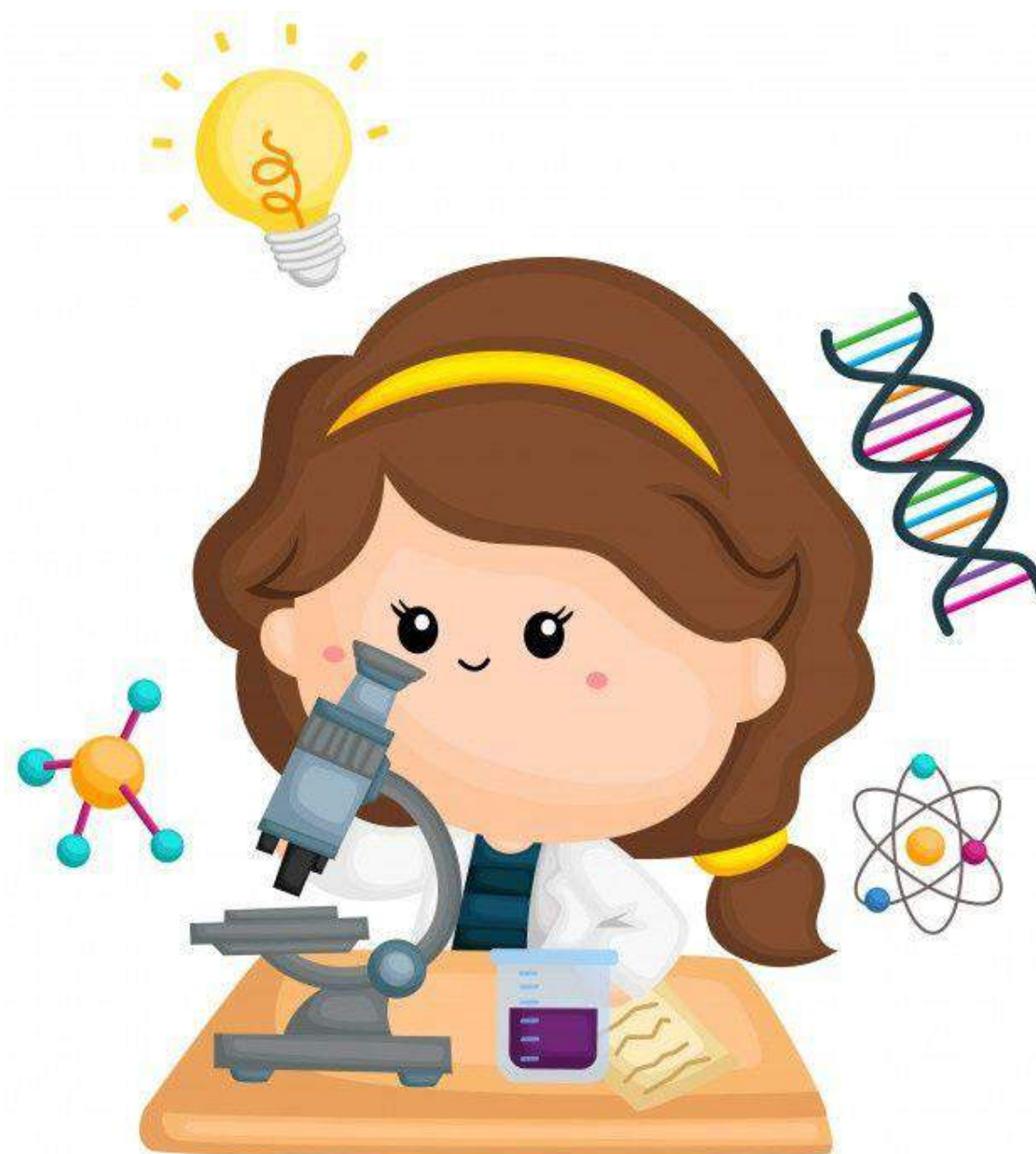




Kathmandu Living Labs





**fig: different OSM mapping and community building activities happened at KLL**

# NEWS

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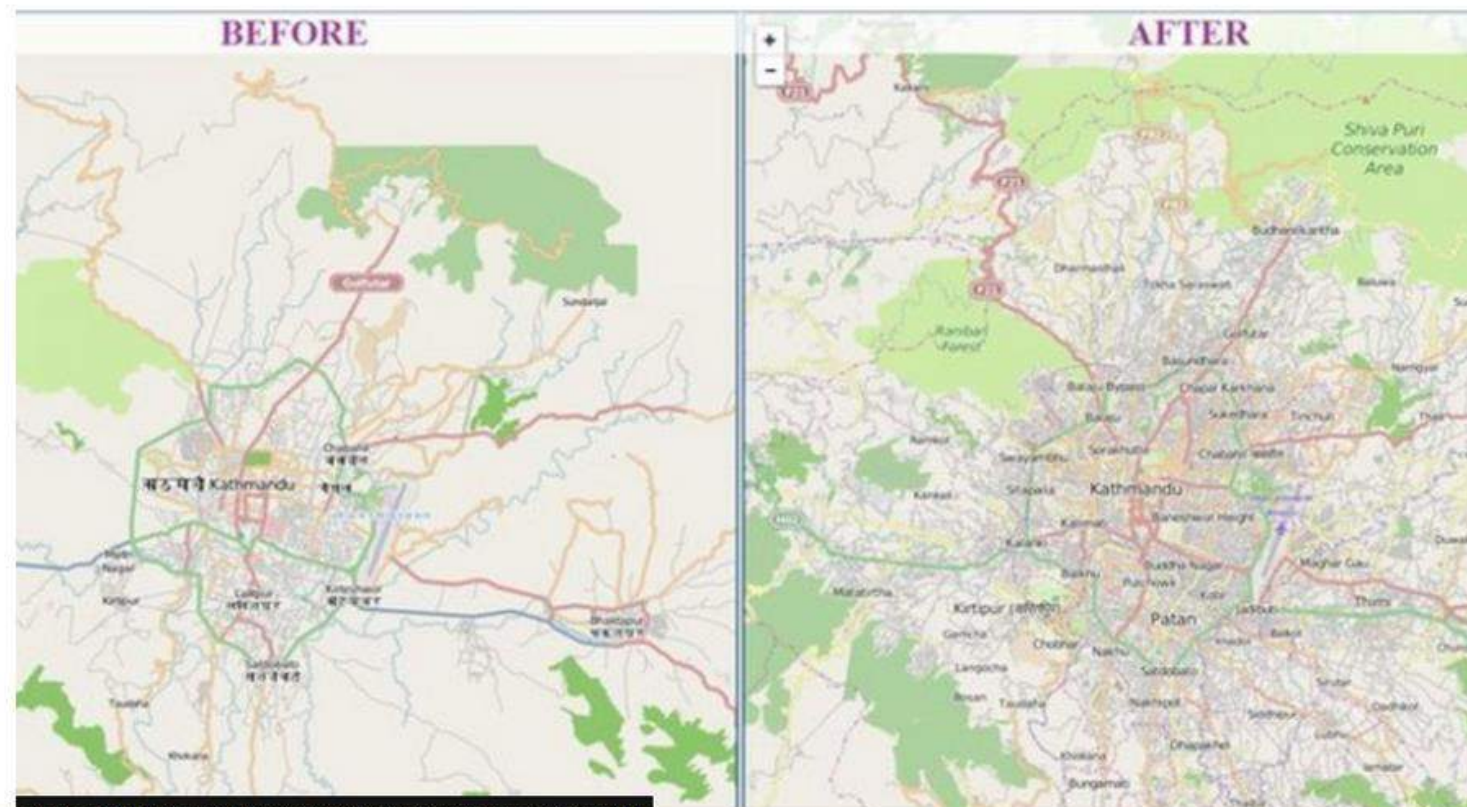
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## How 'crisis mapping' is helping relief efforts in Nepal

By Saira Asher  
BBC News

6 May 2015



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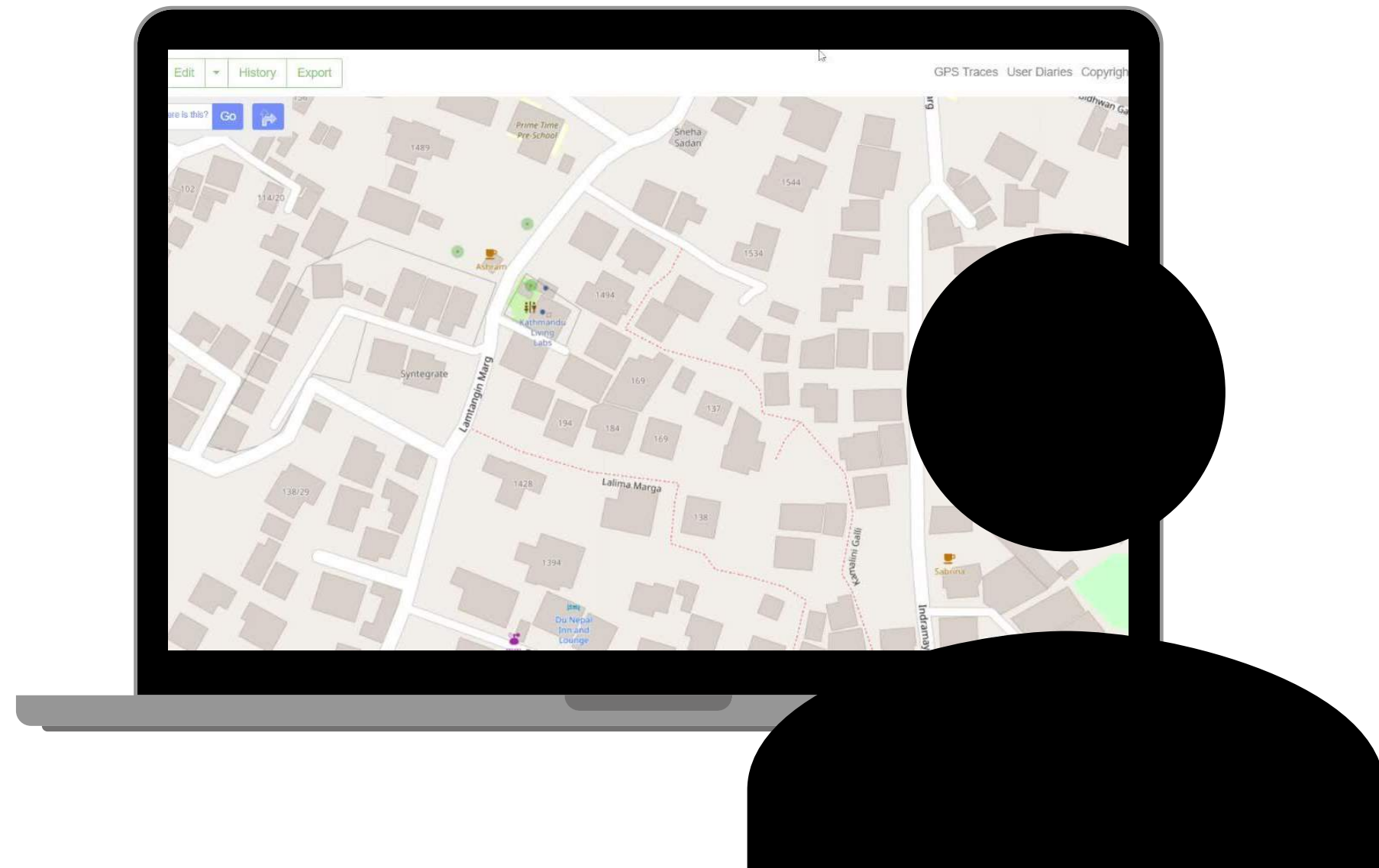


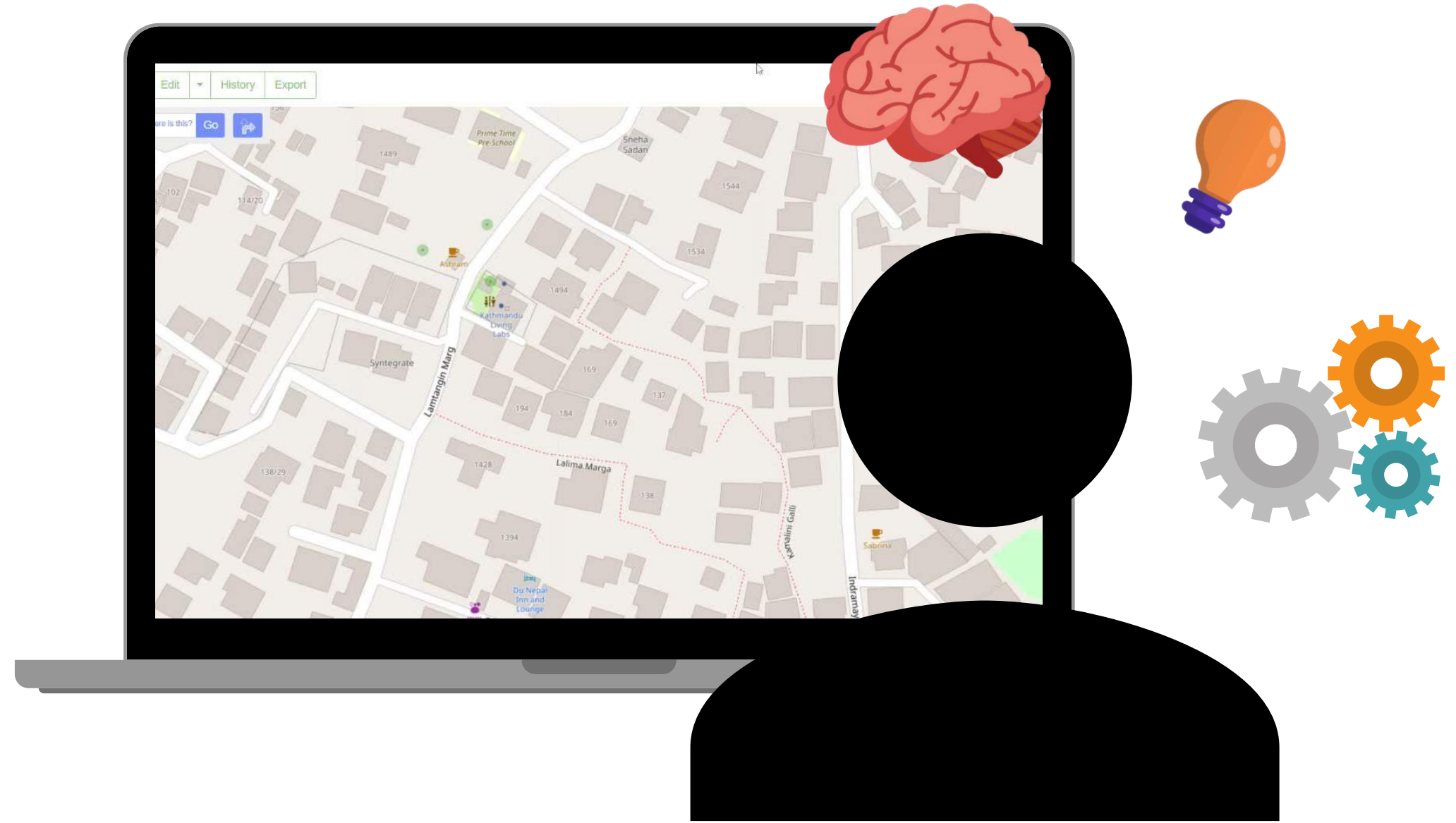
A look into the how OpenStreetMapping might aid skill building of its Mappers

# OpenStreetMap as a tool for skill building

Presented by:  
Aishworya Shrestha, Nama Raj Budhathoki, and Nancy Erbstein









# PEER Project

**PEER** = Partnership for  
Enhanced Engagement  
in Research

Funded by USAID; managed by National Academy  
of Sciences with Scientific input from the U.S.  
National Science Foundation

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Kathmandu Living Labs started the project in  
December 2016

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Goal of the project:

*Understanding the phenomenon of open mapping:  
creating open-source map data as a critical  
information infrastructure for disaster  
preparedness and development*

---

Action research methodology: generate scientific  
knowledge while expanding mapping



8  
MILLION+ PEOPLE

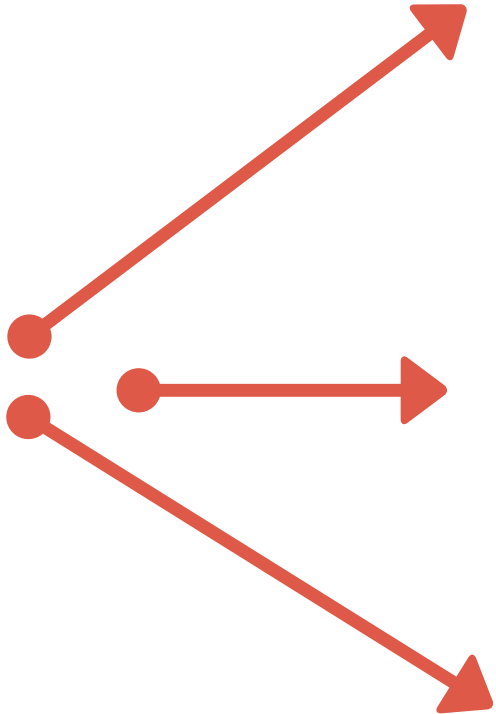
# Agriculture mapping



# App development



# Earthquake response



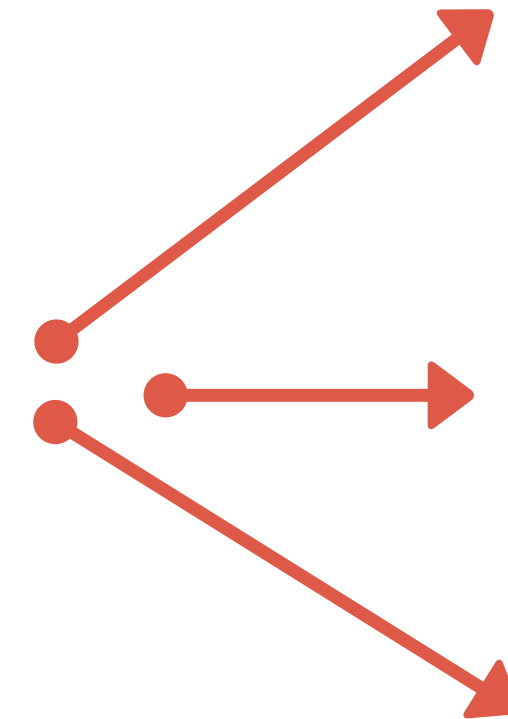
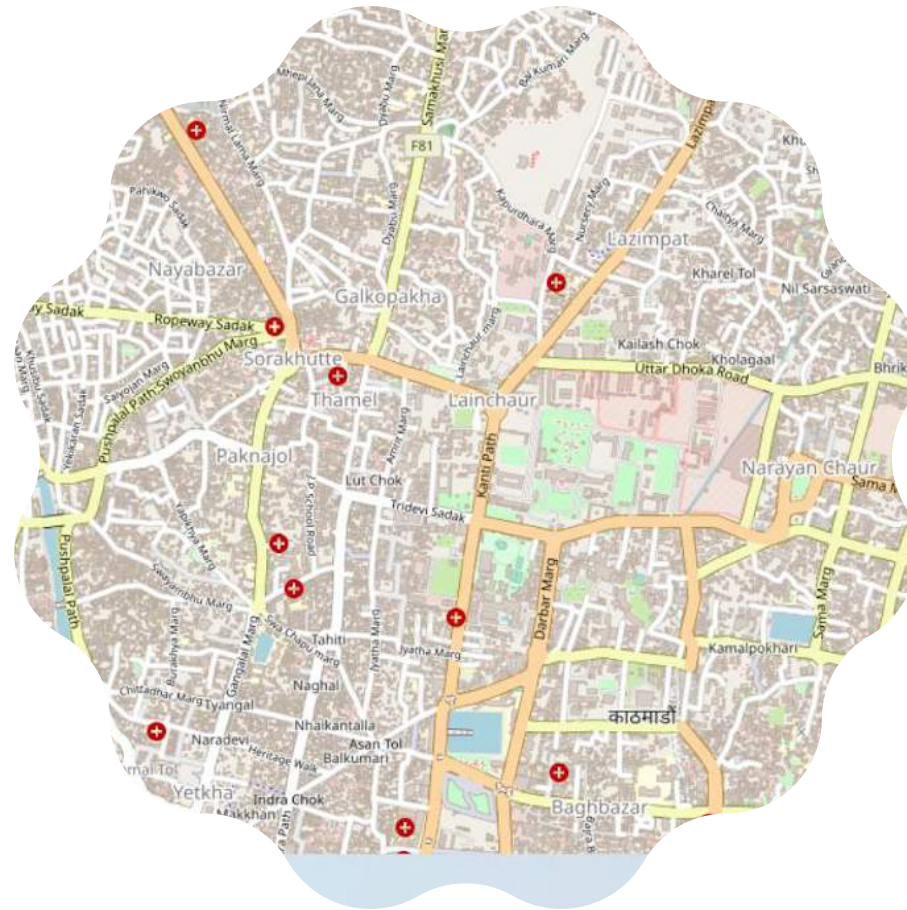
# Agriculture mapping



# App development



# Earthquake response



**Experience of mapping could be as important as the data contributed**



A QUICK GLANCE INTO THE DIAL PROGRAM

LINK TO THE DIAL PAPER:  
[HTTP://BIT.LY/DIALPAPER](http://bit.ly/dialpaper)

	<b>Cohort I (Summer 2017)</b>	<b>Cohort II (Spring 2018)</b>	<b>Cohort III (Fall 2018)</b>
<b>Number of interns:</b>	10 (5 Females; 5 Males)	19 (7 Females, 12 Males)	11 (2 Females, 8 Males)
<b>Time duration:</b>	2	3	3

**Sample size: 40**

A grounded theory of the  
reports and blogs  
informed the immediate  
effects



# FINDINGS

# Affective learning

Learning related to the learner's personal feelings, attitudes, perceptions and emotions

“The experience helped me better understand the **incredible reach of just one person’s contribution** in OSM”

“I was ranked top mapper of Nepal. That day was one of the **happiest days of my life.**”

“The most immediate outcome of the internship for me is being **recognized as a mapper** in the OSM world community.”

# Technical skills and digital literacy

Knowledge and ability to use ICT tools.

“We learned with OSM tracker to get raw data, handle issues such as tracking multiple information on one node, remote mapping with JOSM, map our own raw data in JOSM, and continue learning and experimenting with different features. Learned to get raw data with OSM tracker, handle issues. **Handy with open source map software.**”

# Cognitive skills

Mental skills relating to gathering  
and processing information



“The program has enhanced my **critical thinking**, it has made me **aware of the subjectivity of data**”

“I started **looking around and noticing places** I would probably have ignored, mapping made me aware of my surroundings and I would discover facts and details I might not have discovered otherwise.”

# Geographic knowledge

Knowledge related to geography, including use of maps and spatial awareness

“The mapping of the three different geographical locations provided the virtual tour of different parts of Nepal which helped us to **visualize the different living environments** of people and their access to road and the complexity of the life’s they are living.”

“Some of the potential impact of the work that I have performed...**useful for governance and infrastructure** in Banke, Jajarkot and Mugu districts,..**helpful for the pre and post disaster preparedness**”

# Professional skill-building

Skills relevant to career or academia.

“As I'm pursuing my Master's in **Crisis Management**, the leadership and mapping skills will further help me to work in the community”

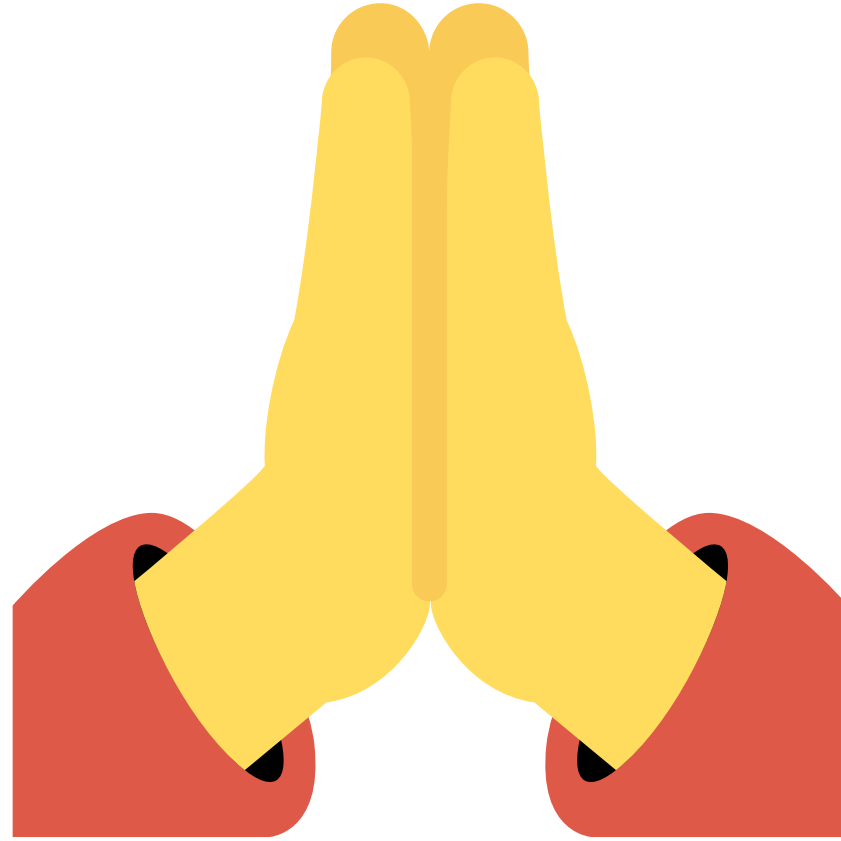
“The internship has changed my life on a professional level. It has propelled me to be able to overcome challenges and develop my career in **disaster management and sustainable development**. improved my professional and ability to work in a digital environment.”

“KLL provided me with a unique opportunity to not only map but also observe the layouts, the details of streets and in general I unexpectedly learned indirectly about **architecture** related things”

# WAY FORWARD

- Affective skills
- Civic engagement
- Technical skills and digital literacy
- Cognitive skills
- Geography-based knowledge
- Professional skills





<https://kathmandulivinglabs.org/projects/peer-grant>

# The Research Team



Nama Raj Budhathoki  
Principal Investigator



Nancy Erbstein  
U.S. Partner



Kshitiz Khanal  
Research Assistant



Team Kathmandu Living Labs