

STORYTELLING WITH MAPS

open-source community mapping
for rural development in India

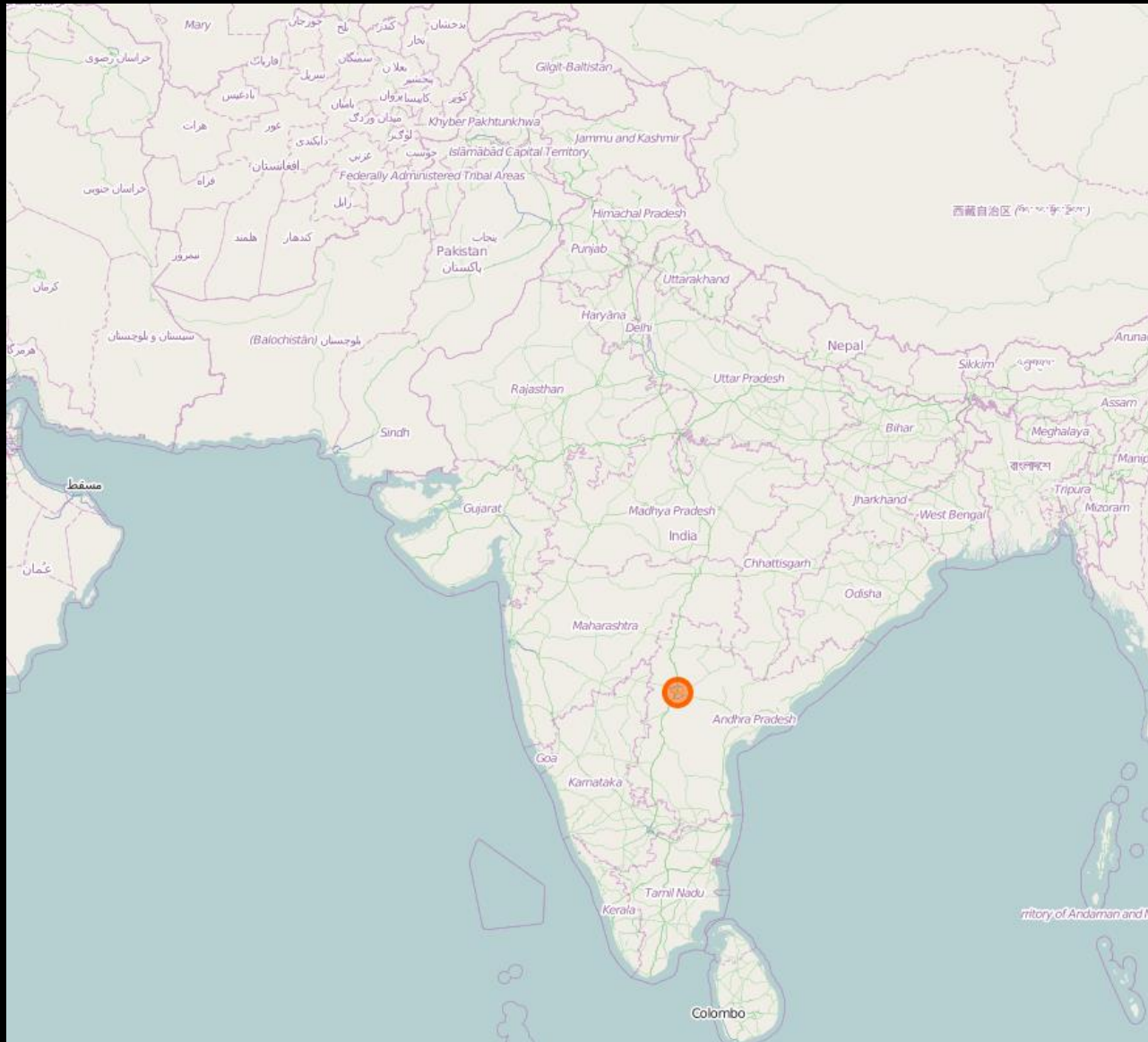
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What would I like to tell you today?

- What is community mapping?
- Why do we use GIS in development cooperation?
- What it is actually good for?
- How much does it cost?

What would I like to tell you today?



Why do we need community mapping?

- Maps have been used throughout history as weapons of imperialism (Harley 1988).
- Based on the idea that cartography is “the science of princes,” it was used by governments and elites to stake claim to valuable land and resources (Chapin et al 2005).
- But there is more to this than just the drawing of boundaries, maps were used to legitimize the reality of conquest and empire. They helped create myths which would assist in the maintenance of the territorial status quo (Harley 1988).

What are community maps?

- Development + community + participation =
- How do you conjugate the verb „to participate“?

I participate,

You participate,

He participates,

We participate,

They decide.

(Alperovitz 2004)



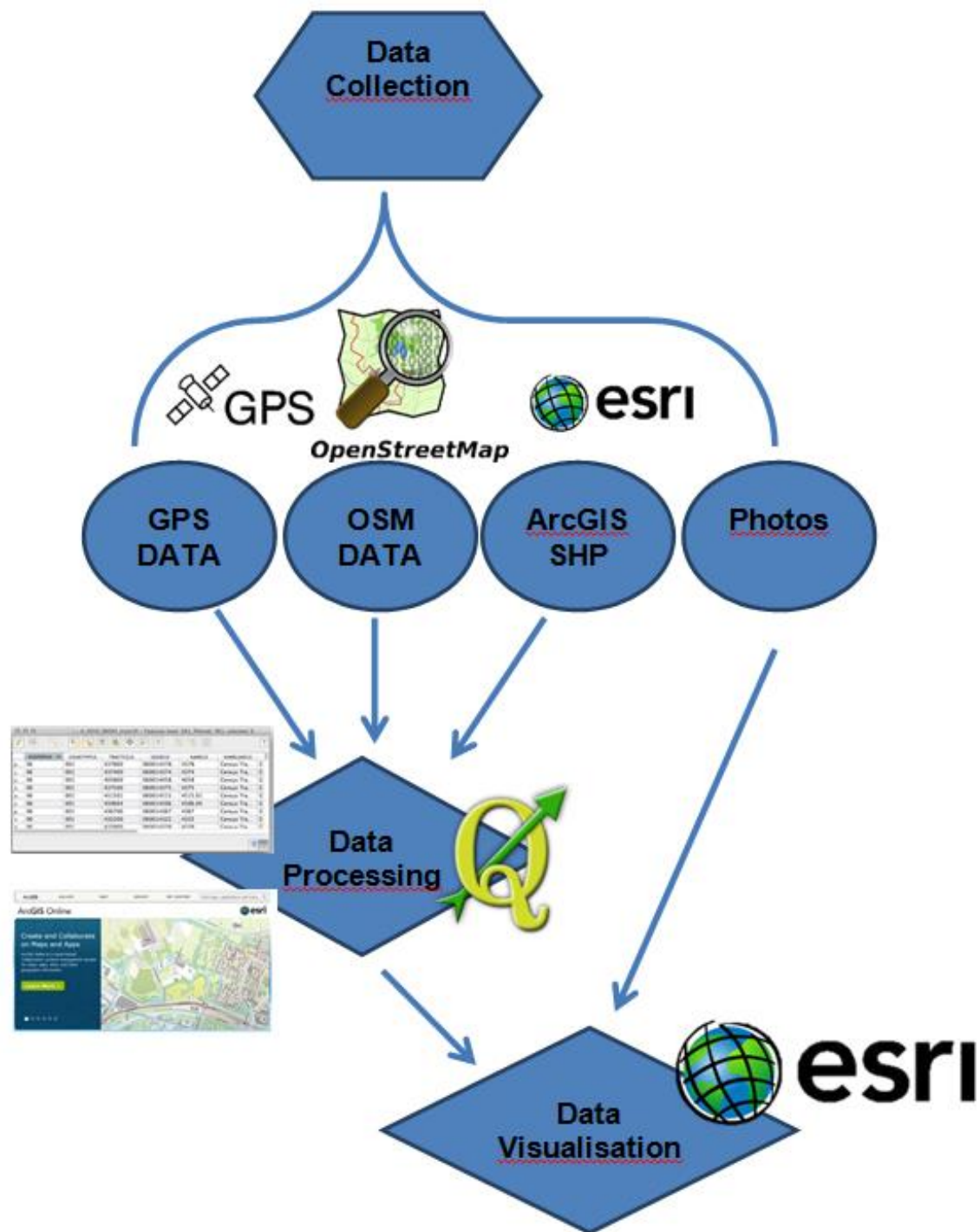
Methodology

Goals of the study

- To create a multimedia community map based on the example of the NIRD campus in Hyderabad, using only free or open-source technologies.

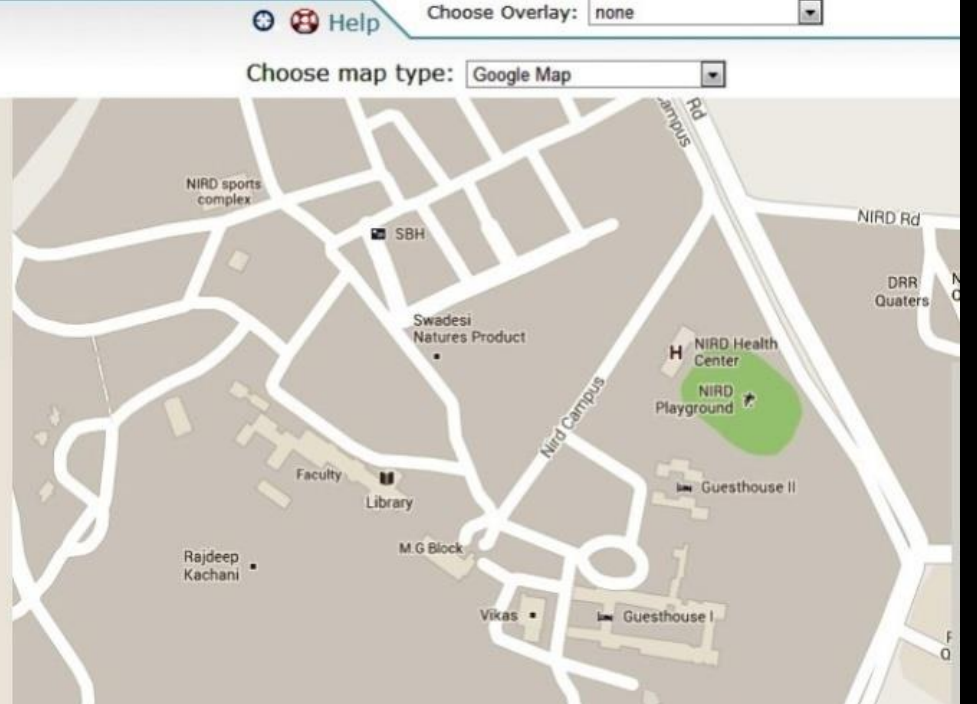
Hypothesis

- Multimedia web-maps can serve as tools for rural development if prepared with participatory approaches.
- Free and open-source technologies are better suited to community development, due to their easier accessibility and adaptability.



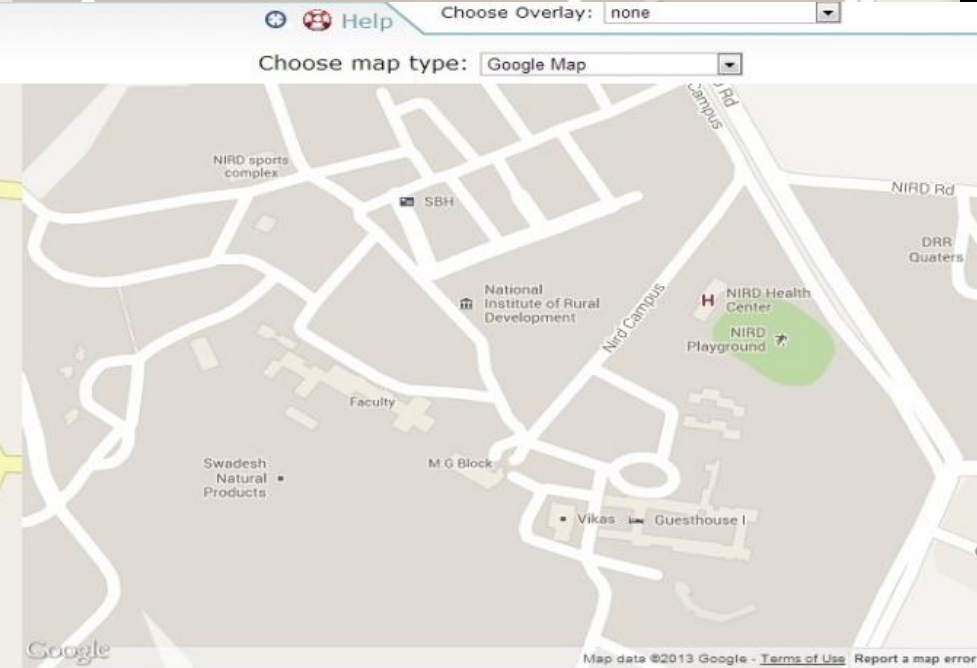
Map Compare

Choose map type: OSM Mapnik



Map Compare

Choose map type: OSM Mapnik



Technologies – ArcGIS online

ArcGIS - NIRD campus map

NOVÁ MAPA Jirka

Podrobnosti Přidat Podkladová mapa

Uložit Sdílet Tisk Měření Záložky Najít adresu nebo místo

O aplikaci Obsah Legenda

Obsah

- ☒ Administration
- ☒ Residential
- ☒ Free time
- ☒ OpenStreetMap

Map showing the NIRD campus with various facilities and landmarks. A popup window displays details for a specific feature:



FID	11
id	2,00
Title	Football pitch
Short_Des	The best place to play football/soccer in NIRD. You can also play cricket here, if desired.
Des1	The best place to play football/soccer in NIRD. You can also play cricket here, if desired.
Des2	
Image_URL	Další informace
Website	
Přiblížit na	

Map data © OpenStreetMap contributors, CC-BY-SA

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Technologies – storymap template *shortlist*

NIRD campus map

A story map  

Interactive multimedia map of NIRD campus in Hyderabad. This map was created as a final project at the International Training Programme on Geo-Informatics applications in Rural Development for Sharing Innovative and Best Practices.



Administration Residential Free time



1 Tennis court



2 Football pitch



3 Lake



4 NIRD sport centre



5 Swimming pool



6 Playground



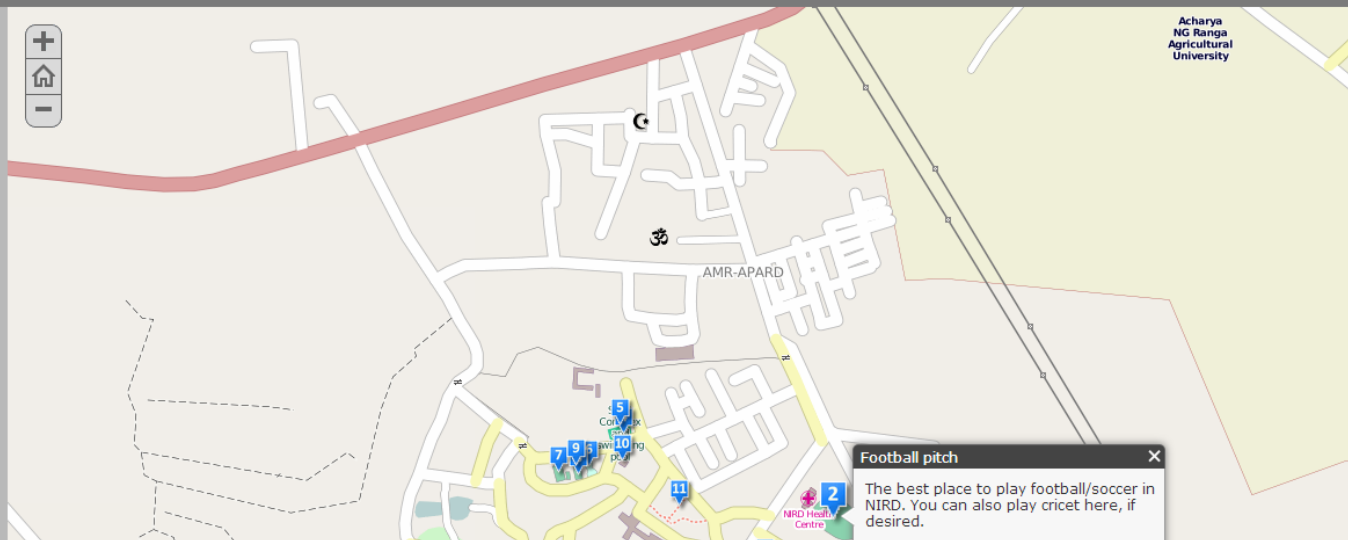
7 Basketball field



8 Sport Field



9 Sport Field



Attribute table – Administration2 :: Features total: 8, filtered: 8, selected: 0



	id ▲	Title	Des1	Des2	Short_Des	Image_URL	Website
7	1	Rural Technology Park	The vision is to serve as ...	Today, there are ...	The Rural Technol...	http://cestyrs.upol.cz/jirka/images/rtp.jpg	http://www.nird.org.in/RuralTechn...
6	2	Main Gate	This is the main entrance...	NULL	This is the main e...	http://cestyrs.upol.cz/jirka/images/010.JPG	NULL
5	3	School	This school is for children...	NULL	This school is for ...	http://cestyrs.upol.cz/jirka/images/014.JPG	NULL
4	4	NIRD Health Centre	NIRD Health Centre offer...	NULL	NIRD Health Cent...	http://cestyrs.upol.cz/jirka/images/009.JPG	NULL
3	5	Library	The library acts as a reso...	The computerize...	NIRD Library is pa...	http://www.nird.org.in/phtoforsite/librry/IMG...	http://www.nird.org.in/library.aspx
2	6	Vikas	Vikas is a modern auditor...	NULL	Vikas is a modern ...	http://cestyrs.upol.cz/jirka/images/026.JPG	NULL
1	7	Mahatma Ghandi Block	The Centre for Geo-infor...	Further more, on...	The Centre for Ge...	http://www.nird.org.in/phtoforsite/bldngs/D...	NULL
0	8	Mailbox	You can send you letters/...	NULL	You can send you ...	http://cestyrs.upol.cz/jirka/images/027.JPG	NULL

Show All Features



Conclusion

Creating an own map within a community has an empowering effect, because members of the community have the opportunity to think spatially about their environment and literally put their community on the map.

The process of creating the data triggers feelings of belonging to the community and ownership of the process.

With ownership comes the empowerment leading to sustainable development, driven and run by the community itself (Vlok & Pánek 2012).

Thank you for your time!

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