

Digital Champions fighting Gender Based Violence in rural Tanzania with maps



**CROWD2MAP
TANZANIA**

Putting rural
Tanzania on the map

crowd2map.org

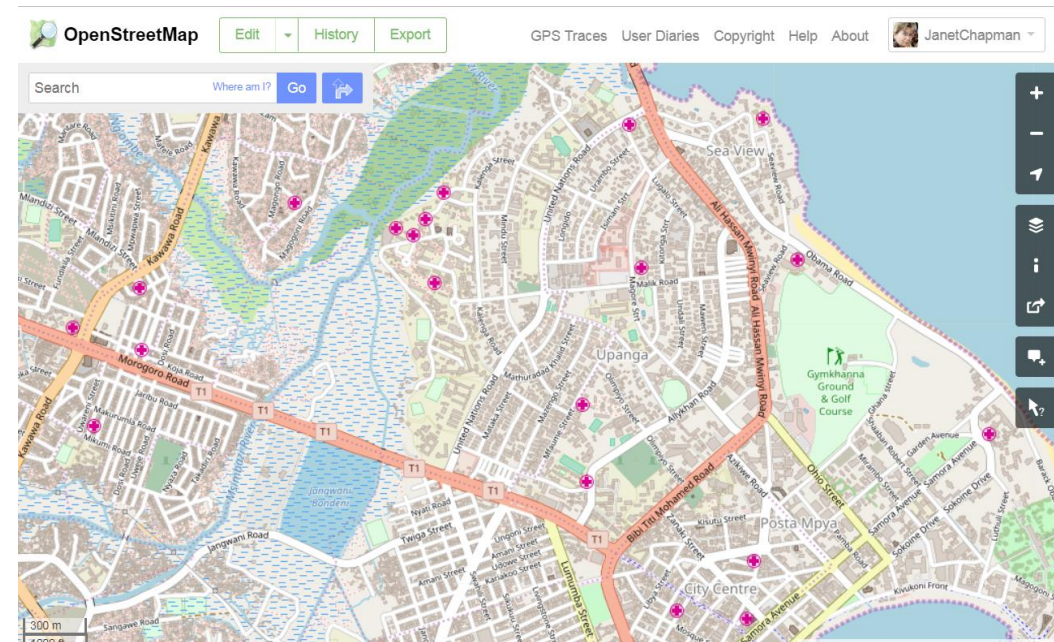


Tanzania
Development Trust



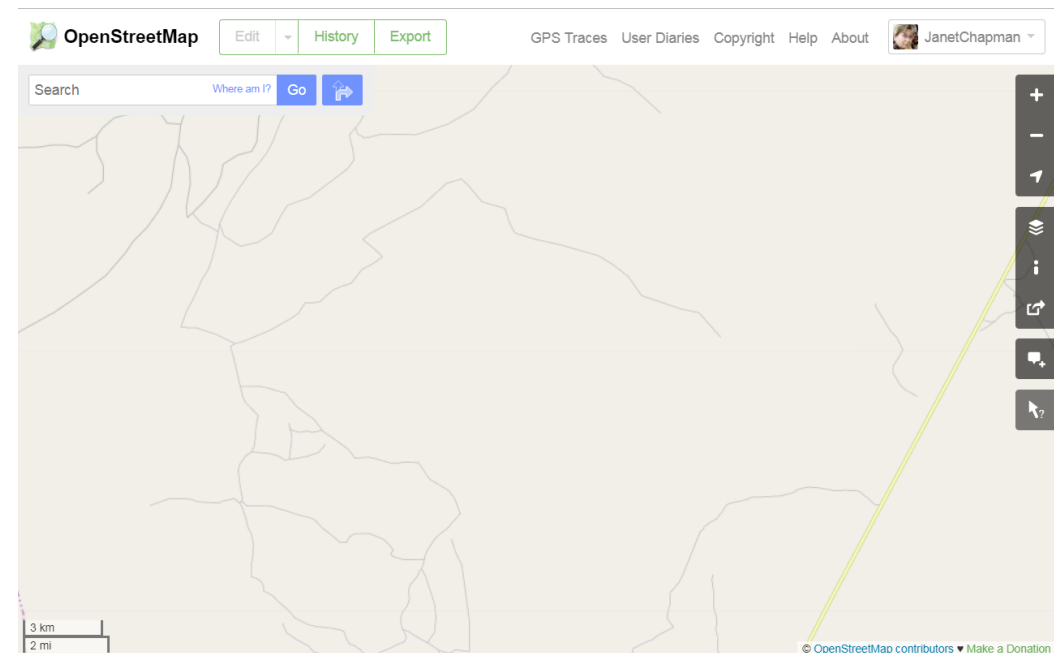
**Working with communities
in rural Tanzania since 1975**

This is Dar es Salaam:



This is rural Tanzania:

(Over 10,000 people live in this area, not shown on any map)



A photograph of a group of people in a rural setting. In the foreground, several men are looking down at a device, possibly a smartphone. A woman stands next to them, and a young child is visible in the center. To the right, a man in a red, white, and black striped shirt stands with his hands on his hips. In the background, a large crowd of people is gathered on a dirt path, with simple houses and trees in the distance.

**CROWD2MAP TANZANIA IS
A VOLUNTEER PROGRAMME THAT
IS PUTTING RURAL TANZANIA ON THE MAP**

We are working towards a world where...

- Everyone is **counted**
- Map data is accessible and **used in decisions** that save and improve lives
- Everyone can **engage and contribute** to the map





Rural Africa
needs
MAPS!



CROWD2MAP
TANZANIA
Putting rural
Tanzania on the map
crowd2map.org

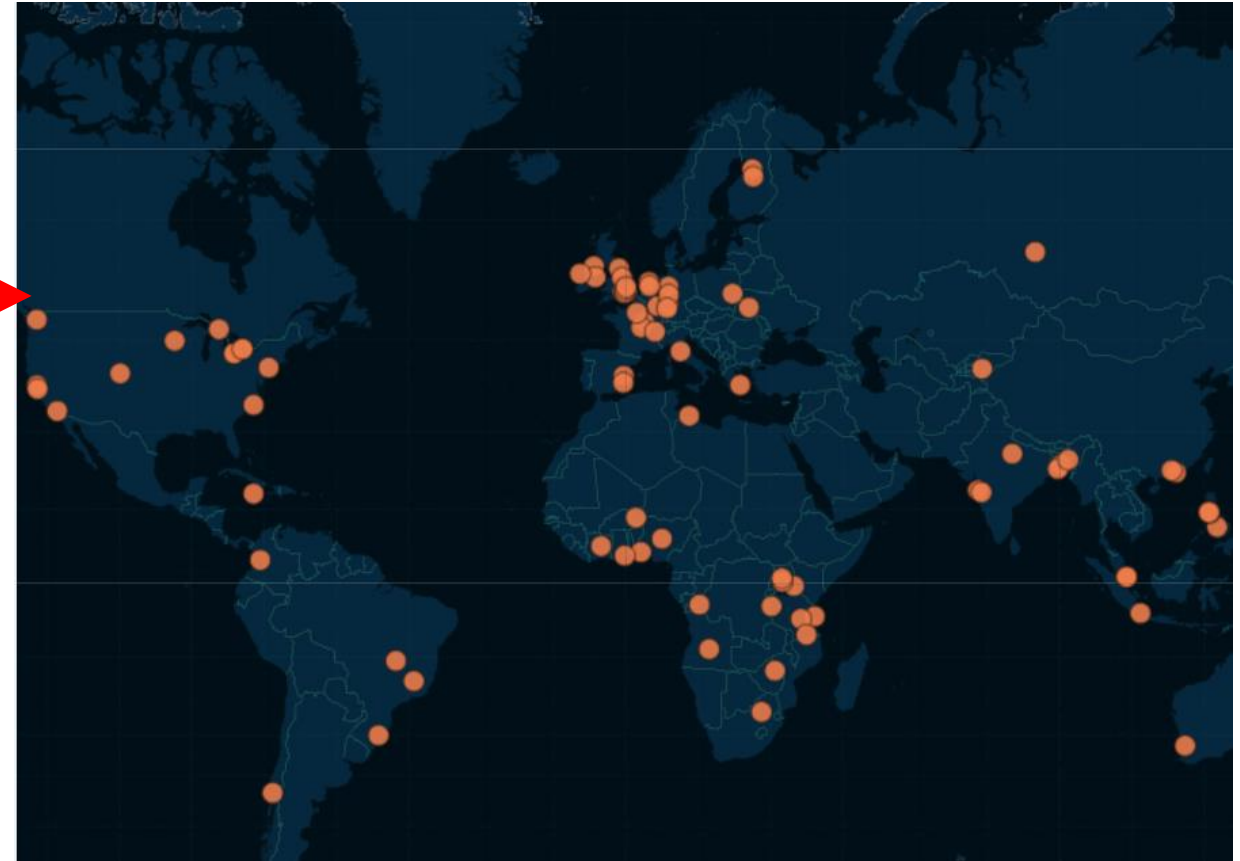


TANZANIA
Development Trust

Crowd2Map are making them!

Since October 2015...

- Over 17,000 Volunteers
- Worldwide contributors
- Over 5.6 Million buildings
- Nearly 300,000 km roads
- Over 12,000 sq km mapped
- Nearly 10,000 POI
 - Water points
 - Health facilities



Humanitarian
OpenStreetMap
Team

Remote volunteers' contribution

Description: The database shows the number of contributions with the #tanzaniadevelopmenttrust hashtag. You can sort by number of contributions or you can sort users in alphabetical order and/or you can use filter to find an OSM user. The data is generated with osm-stats from American Red Cross. PS: Don't rush, it take a time...



| Name | User ID | Edits | Changesets | Roads | Buildings | Last contribution |
|-----------|---------|--------|------------|------------------|-----------|--------------------------|
| Super-Map | 709289 | 141612 | 124 | 5555.24020521334 | 117687 | 2017-08-13T22:48:57.000Z |
| happywy17 | 4759876 | 132828 | 2772 | 7127.92758784326 | 69193 | 2021-06-29T16:16:34.000Z |
| sophs74 | 2482736 | 129384 | 2937 | 12984.8238972469 | 64727 | 2018-05-31T23:27:57.000Z |
| vichada | 2246826 | 128226 | 610 | 2309.13532647517 | 97285 | 2018-04-05T18:47:12.000Z |
| sab27 | 4367139 | 123694 | 6957 | 4247.37437834032 | 81825 | 2022-06-16T12:04:33.000Z |
| Honning | 633013 | 120105 | 1066 | 3926.08172315132 | 90156 | 2018-04-08T11:38:27.000Z |

OSM stats

#tanzaniadevelopmenttrust leaderboard

Number of volunteers: 17706

Covered area in Tanzania: 120358 sq km

Number of HOTOSM tasks: 76

Number of MapSwipe tasks: 10

Length of added road network: 303051.76 km

Added POI (Point of interest): 10316

Added buildings: 5609709

Total edits: 7738319

Last updated: 2022-08-16T09:54:05.000Z

Number of buildings - the most active volunteers:

- **Super-Map:** 117687
- **vichada:** 97285
- **Honning:** 90156

Mapped road network in km - the most active volunteers:

- **sophs74:** 12984.8238972469
- **happywy17:** 7127.92758784326
- **siwilde:** 6324.0925230354

[Check our dashboard too - created by ArcGIS Online](#)

Mobile ownership

% of adult population in Sub-Saharan Africa



69%



82%



Mobile internet use

% of adult population in Sub-Saharan Africa



29%



49%



Gender gap in ownership / use (%) = $\frac{\text{Male owners / users (\% of male population)} - \text{Female owners / users (\% of female population)}}{\text{Male owners / users (\% of male population)}}$

MOBILE OWNERSHIP

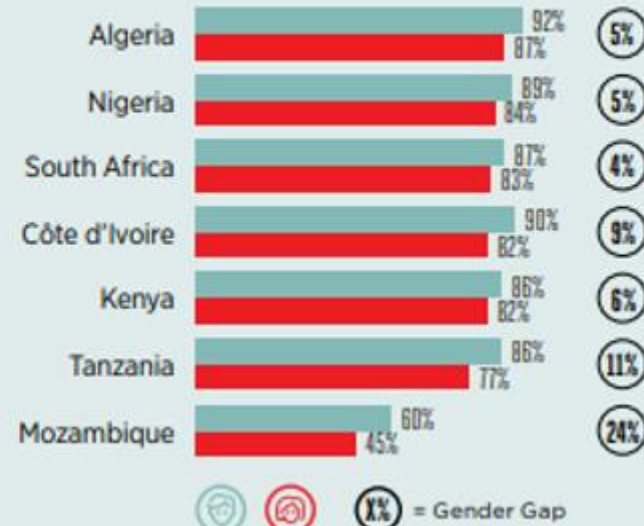
The top barriers to mobile ownership are Affordability and Literacy and Skills

Based on the single most important barrier to owning a mobile phone identified by non-mobile owners, averaged across surveyed markets

| | Women | Men |
|---|---------------------|---------------------|
| 1 | Affordability | Affordability |
| 2 | Literacy and skills | Literacy and skills |
| 3 | Safety and security | Safety and security |
| 4 | Network coverage | Relevance |

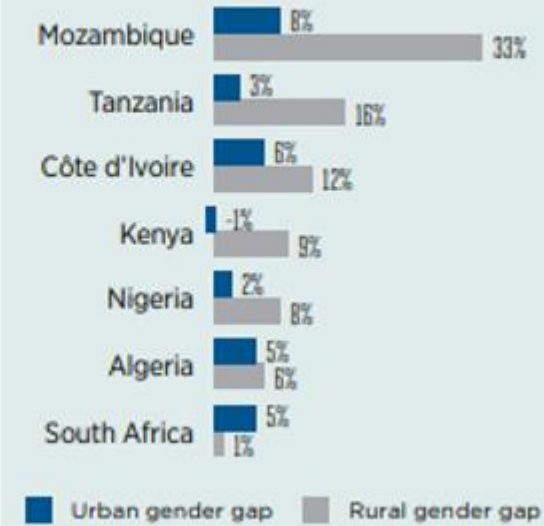
In all African countries surveyed, women's level of mobile ownership is lower than men's

Percentage of total adult population who own a mobile, by country and gender



The Gender Gap in mobile ownership is wider in rural areas than urban areas

Percentage difference in rate of mobile ownership by men and women in urban and rural areas, by country



WOMENCONNECT CHALLENGE: EMPOWERING WOMEN AND GIRLS TO CREATE GENDERED DATA ABOUT ISSUES AFFECTING THEIR LIVES

Community-Led · [Tanzania](#), [Peru](#), [Zambia](#) · COMPLETED



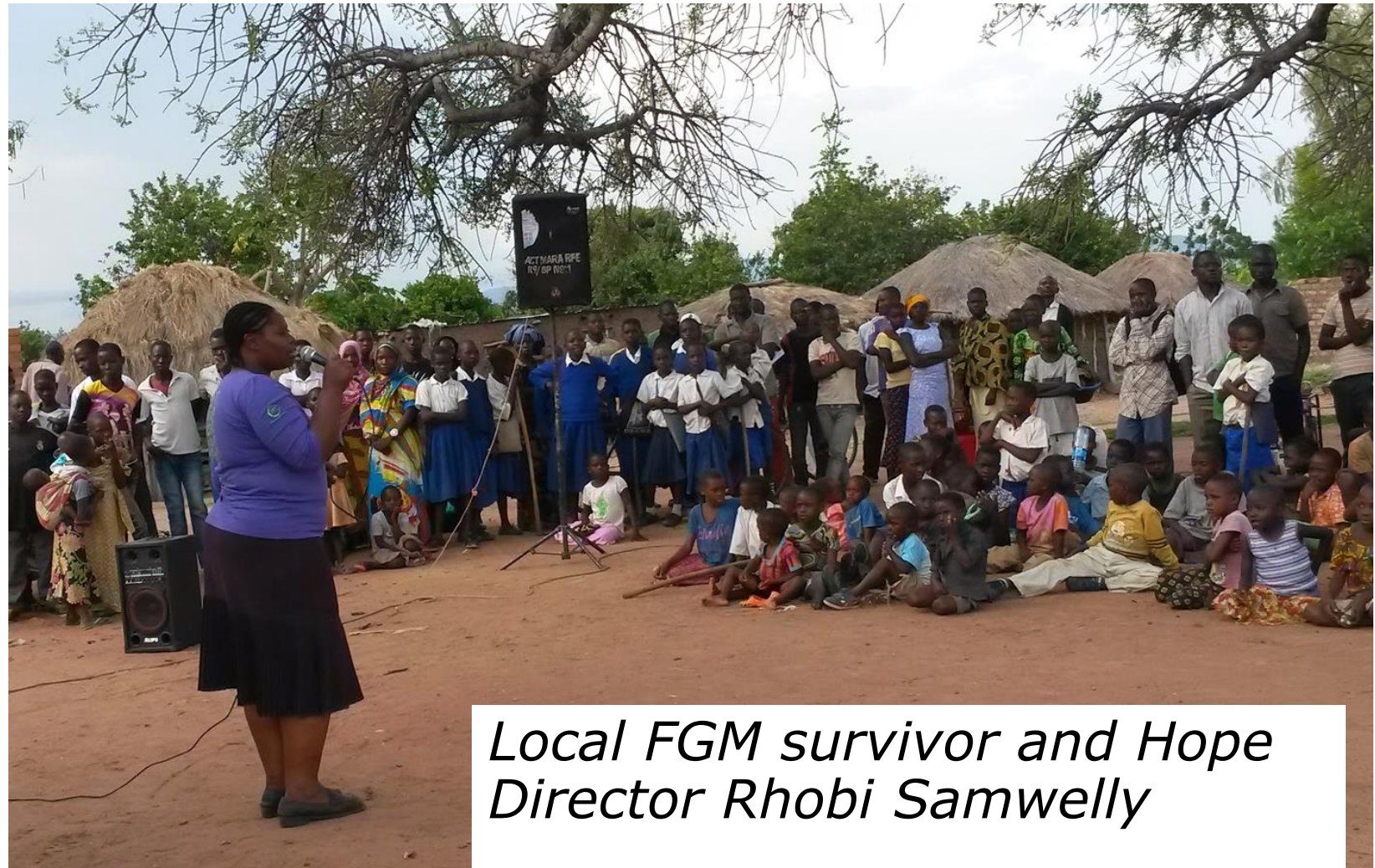
Hope for Girls and Women supports



Local Activists fighting
**Female Genital
Mutilation and Gender
Based violence**

Outreach work

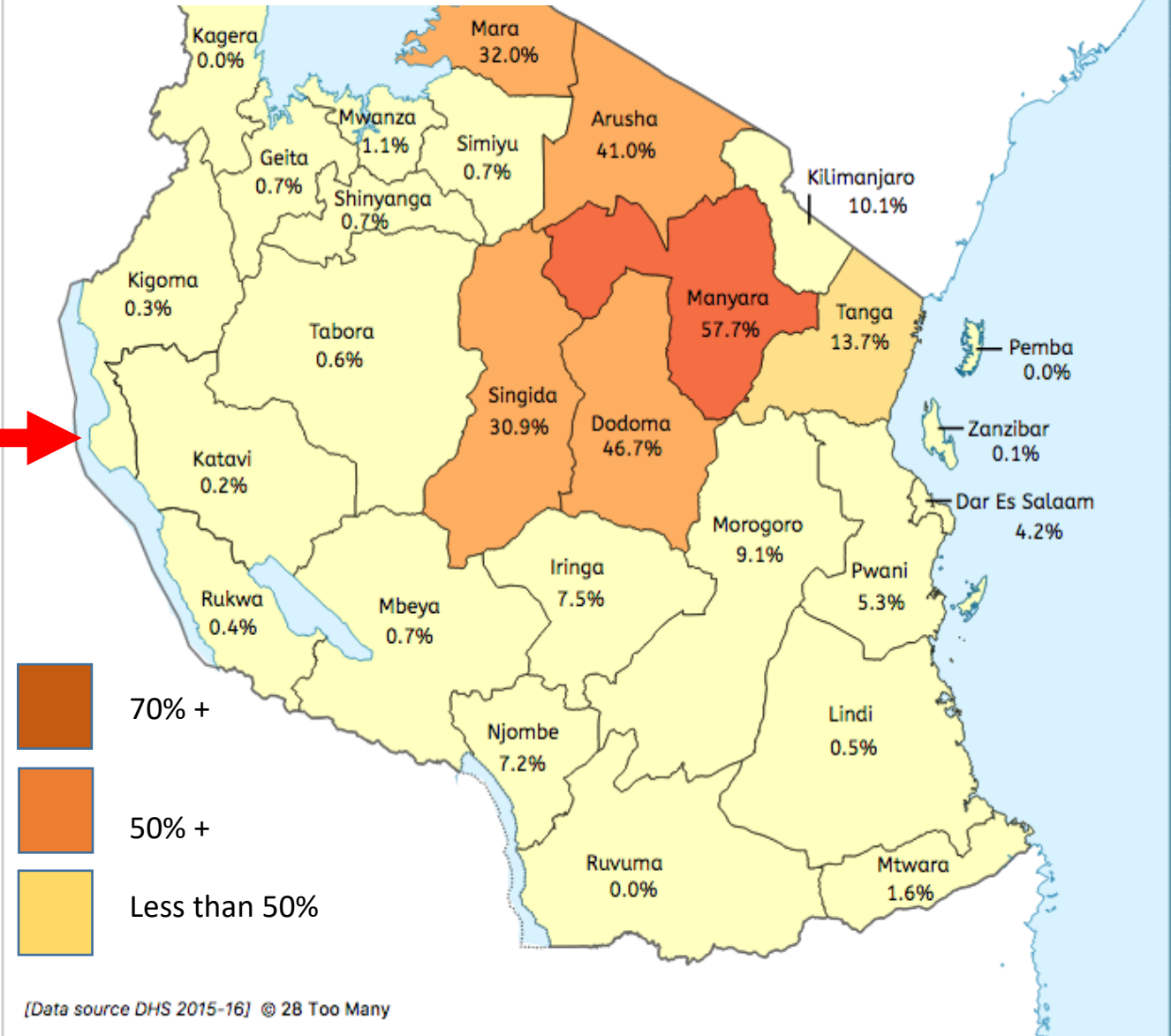
Safe Houses for girls
refusing FGM



*Local FGM survivor and Hope
Director Rhobi Samwelly*



FGM Prevalence in Tanzanian Women and Girls 2016

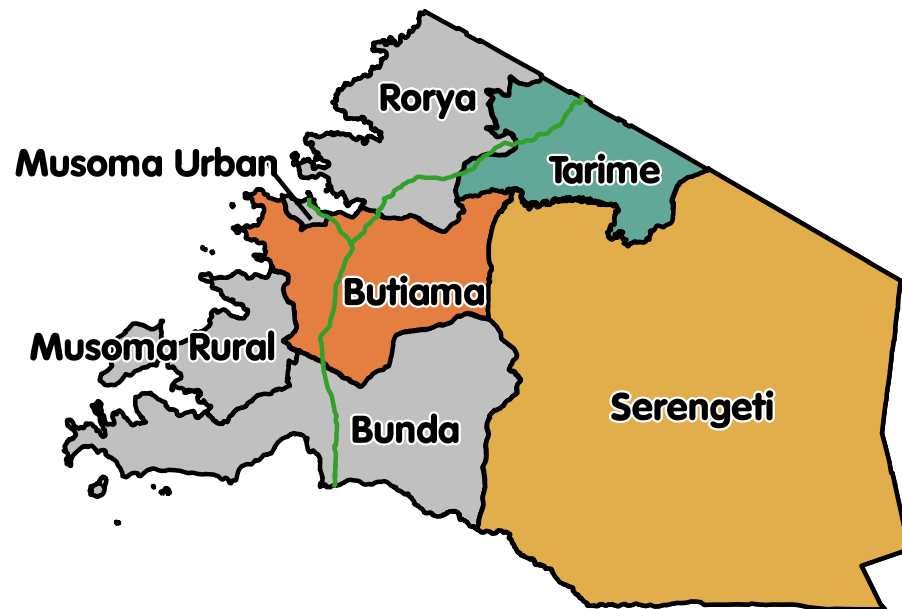


Girls are rounded up during
the
'Cutting Season'
when they are on school
holidays

Digital Champions

Set up **87** Digital Champions in every village in Serengeti District in 2019, who are still ongoing

Further funding from UNFPA in 2021 supported a further **56** in Butiama and **210** in Tarime Districts





Meet Tabu [here](#)



Meet Sikujua [here](#)



Meet Hulda [here](#)



Meet Deborah [here](#)

Digital Champions were selected from the Women and Children's Protection Committee by the village. They had never used a smartphone before.

Training included how to use the phone that they were provided with. It also included a micro sd (memory) card with downloaded videos, books and other materials about agriculture, health and womens' rights.

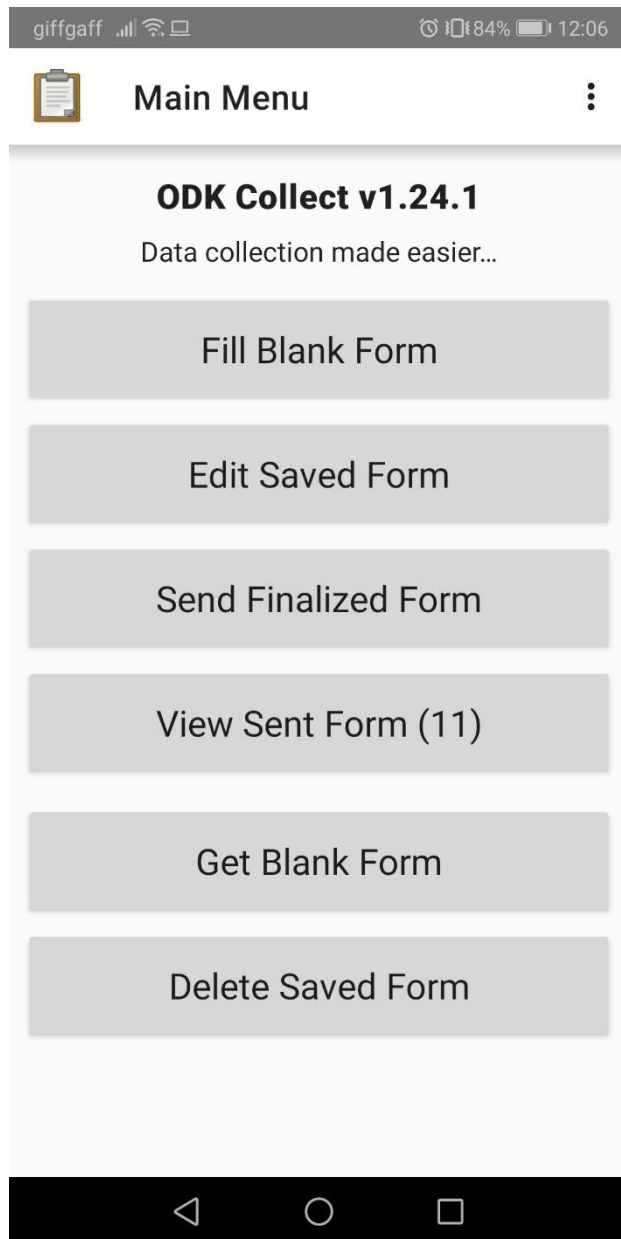


Digital Champions were joined into a WhatsApp group for ongoing training and support, as well as training in person and training visits by Safe House staff.



People love seeing a map of their village for the first time





Digital Champions were trained how to report incidents of GBV using ODK, Open Data Kit.

Incidents went to Social Welfare who dealt with them.

What is the type of violence?

TYPE: "SELECT_ONE". 434 out of 439 respondents answered this question. (5 were without data.)

Physical Violence Sexual Violence Emotional Violence
Economic Violence





Village pharmacy



Village water supply

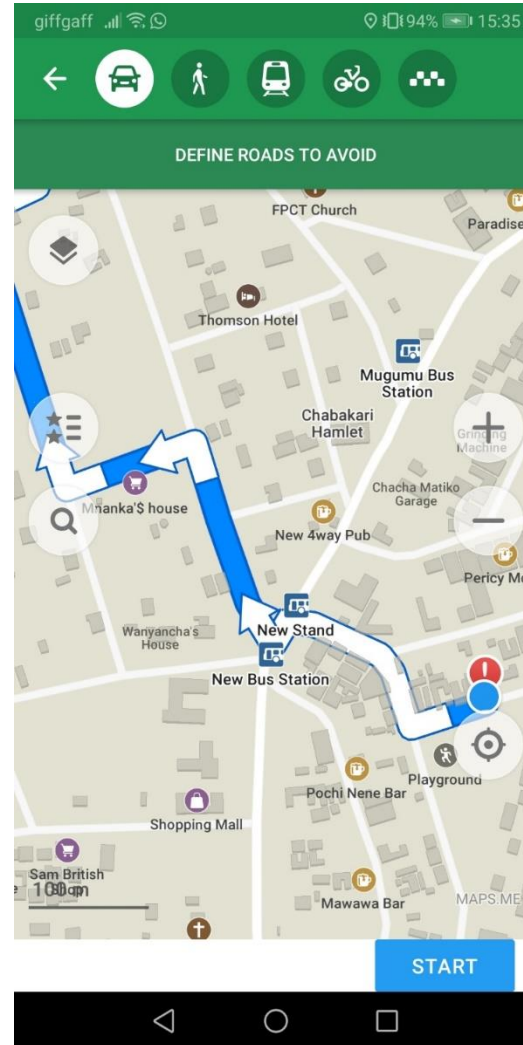
Digital Champions and Youthmappers are involved in ongoing research into progress towards the SDGs.

Village Digital champions



- Over 353 Digital champions trained who have delivered training to over 9000 women in their villages and reported over 470 cases of gender based violence
- Support from WomenConnect, UNFPA Tanzania
- Digital Champions also educate their communities on FGM and GBV – *in their village*
- Using ODK and Organic Maps
- Pharmacies, churches, clinics, police stations and safe places are also mapped.
- Also trained in better agriculture with PlantVillage Nuru

Finding women and girls at risk quickly...



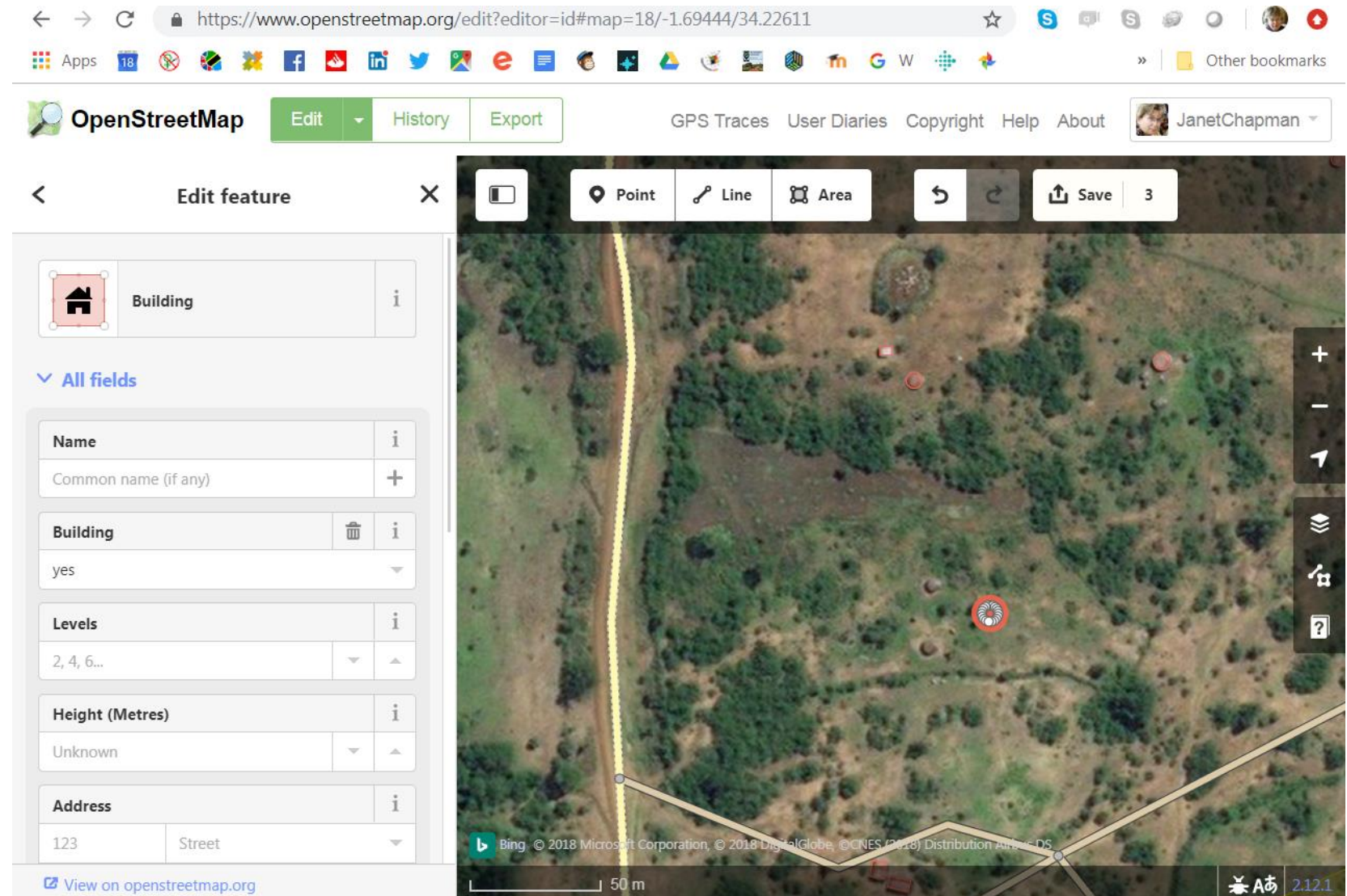
We trained the police and activists to use the maps to quickly find and protect girls at risk.

And also add missing places to the map.

Allows route finding

Remote mapping to create base map...

- Using the HOT platform
- iD Editor – Beginners
- Adding Basic features
 - Buildings, roads
 - Schools, Clinics
 - Villages





#9491 | Tanzania Development Trust

[Edit project](#)

TANZANIA DEVELOPMENT TRUST: SHINYANGA EAST

Missing Maps · Tanzania

- Author: HOT
- Requesting Organization: **Tanzania Development Trust**

Mwanza East has a high incidence of Child Marriage and Gender Based Violence. NGOs on the ground need better road and residential area data to facilitate their outreach work.

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). Building on HOT's disaster preparedness projects, the Missing Maps tasks facilitate pre-emptive mapping of priority countries to better facilitate disaster response, medical activities and resource allocation when crises occur.

[READ MORE](#)

TYPES OF MAPPING



IMAGERY

Maxar Premium

51 total contributors

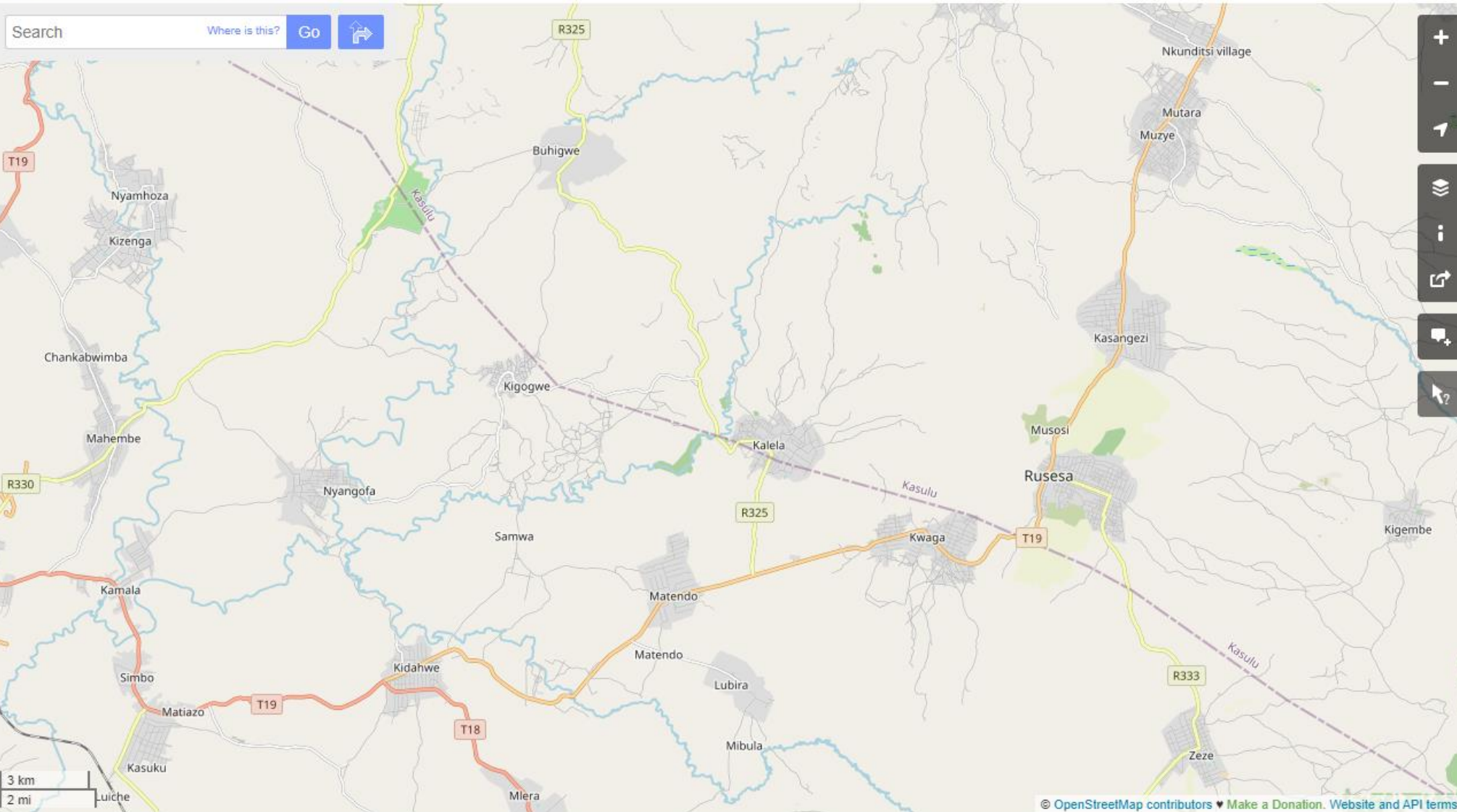
Last contribution 5 hours ago

Beginner Mapper

[Overview](#) · [Description](#) · [Coordination](#) · [Teams & Permissions](#) · [Questions and comments](#) · [Contributions](#)[Share](#)[Add to Favorites](#)[Contribute](#)www.tasks.hotosm.org

Humanitarian
OpenStreetMap
Team

| A | B | C | D | E | F | G | H | I | |
|------------------|--------------|----------|----------|-------------|----------|---------------|--------------|---------------------------------|--------------|
| mena | | LAT | LONG | COORDINATES | DISTRICT | TYPE | ADDED TO OSM | PROBLEMS? | Added by (O |
| rerere | Open 10 JOSM | -1.30831 | 33.964 | | Mara | Dispensary | N | no building | sguthmuller |
| ct Bunda | | -2.01881 | 33.872 | | Mara | Dispensary | N | unclear which building | sguthmuller |
| pha | | -1.25212 | 34.4751 | | Mara | Clinic | N | unclear which building | sguthmuller |
| gunda | | -1.82463 | 33.3571 | | Mara | Dispensary | Y | | Paulo Martim |
| sambara | | -2.14896 | 33.431 | | Mara | Dispensary | N | unclear which building | sguthmuller |
| yasi Sda | | -1.8619 | 33.3742 | | Mara | Dispensary | Y | | Paulo Martim |
| da | | -1.49514 | 33.8089 | | Mara | Dispensary | N | unclear which building | sguthmuller |
| ptic | | -1.50846 | 33.80567 | | Mara | Health Centre | N | unclear which building | sguthmuller |
| rt - Ikoma | | -2.08246 | 34.6439 | | Mara | Dispensary | N | same building as primary school | sguthmuller |
| masara | | -1.3487 | 34.34 | | Mara | Dispensary | N | no building | sguthmuller |
| mba | | -1.97744 | 33.3989 | | Mara | Dispensary | Y | | Paulo Martim |
| mba | | -1.69533 | 34.28605 | | Mara | Health Centre | N | unclear which building | sguthmuller |
| nyana | | -1.72537 | 34.49515 | | Mara | Dispensary | Y | already mapped (as a point) | Maratz1, Mar |
| abakari Magereza | | -1.77482 | 33.8218 | | Mara | Dispensary | N | unclear which building | sguthmuller |
| oumaye | | -1.37495 | 34.41807 | | Mara | Dispensary | Y | | Paulo Martim |
| nesi | | -1.46476 | 33.8634 | | Mara | Health Centre | N | unclear which building | sguthmuller |
| me | | -1.85177 | 33.3348 | | Mara | Dispensary | Y | | Paulo Martim |
| rugee | | -1.9137 | 33.3527 | | Mara | Dispensary | Y | | Paulo Martim |
| rikuba | | -1.73602 | 33.67564 | | Mara | Dispensary | N | unclear which building | sguthmuller |



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| rikuba | | -1.73602 | 33.67564 | | Mara | Dispensary | N | unclear which building | sguthmuller |

| | A | B | C | D | E | F | G |
|---|-----------------|--------------|-------------|------------|------------|----------------|---|
| 1 | WPTNAME | LATITUDE | LONGITUDE | VILLAGE | SUBVILLAGE | Village on OSM | |
| 2 | Mincha | -1.826495589 | 34.34512505 | Maburi | Mungori | No | |
| 3 | Makundya Mfungo | -1.697728916 | 34.28376916 | Nyagasense | Kibaoni | No | |
| 4 | Kebi Maro | -1.699217318 | 34.28673835 | Nyagasense | Kibaoni | | |
| 5 | Zahanati | -1.694683097 | 34.2863391 | Nyagasense | Tahuru | | |
| 6 | Mwita Mahemba | -1.672780561 | 34.31471909 | Mesaga | Senta | | |
| 7 | Nyakaho Mwita | -1.674011679 | 34.31417839 | Mesaga | Senta | | |
| 8 | Makori Nyitange | -1.674310709 | 34.31680839 | Mesaga | Senta | | |

Using water point location data to add village names.

Missing villages In Tanzania

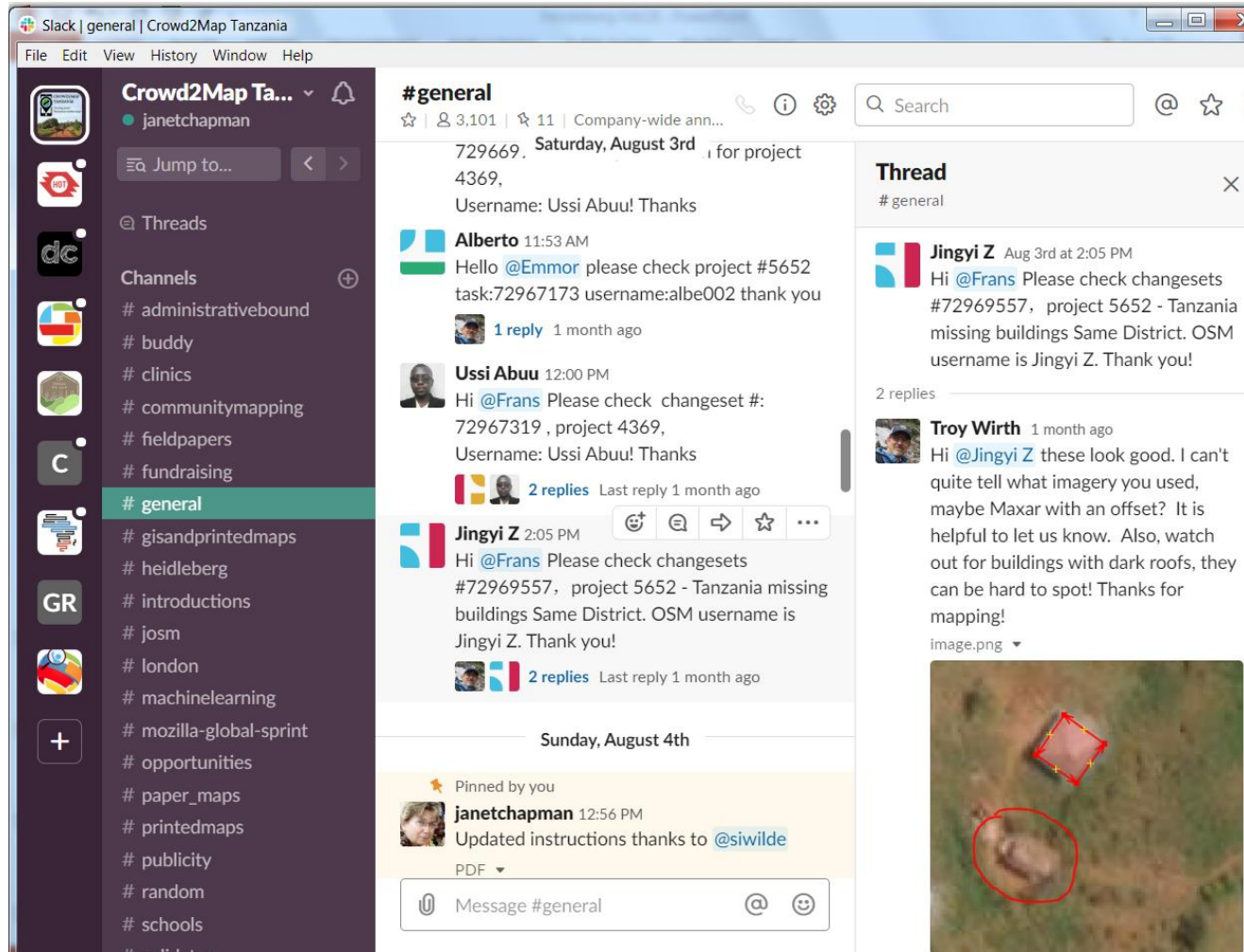
Goals of mapping

Minutes of meeting.docx Associates participation.docx [Show all](#)



Instructions [here](#)

Connecting Volunteers...



Slack channel is good for generating a community, and for volunteers to ask questions and get instant feedback on their 1st mapping attempts etc. – if anyone would like to join please let me know!




https://join.slack.com/t/crowd2map/shared_invite/zt-q04pcgqp-oilCJUFnP61Czn5vguV_lg


Training and retaining mappers...


Quizzes and Badges


- Development and expansion of training materials
 - Addressing the most common errors
 - Building skills quickly
 - Developed badges as an incentive, sign of recognition
 - Moved to make mappers independent of support, quicker






CANVAS
FREE FOR TEACHER



Account



Dashboard


Courses


Calendar


Inbox


Help





Question 4

1 pts

You are ready to mark a tile as "completely mapped", but see that another mapper had added these buildings. Which one/s need to be fixed?



Tanzania Development Trust

Crowd2Map

Target projects report card



5th Oct 2021

This weeks targets are -

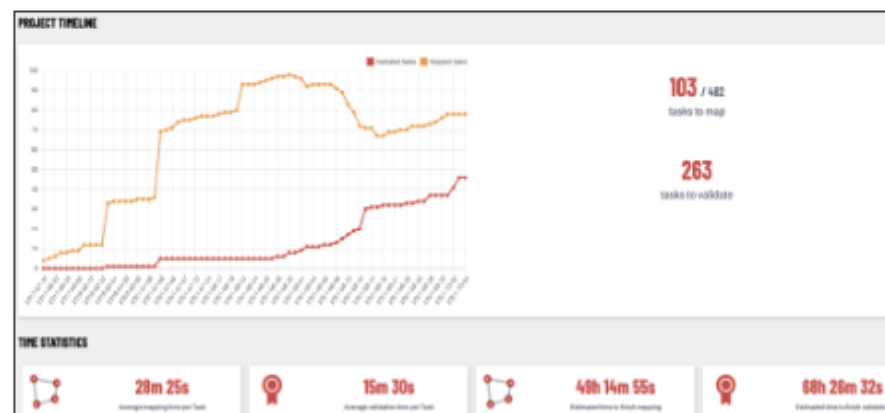
MAPPING #10852 - Get to 100%

VALIDATING #3319 - Get to 50%

Project #3319

- 1 Lot to do here, some remapping and validating
- 2 Some reassessment is going on

| | Last week | Today | |
|-----------|-----------|-------|------|
| Mapped | 91% | 78% | -13% |
| Validated | 14% | 44% | 30% |



Project #10852

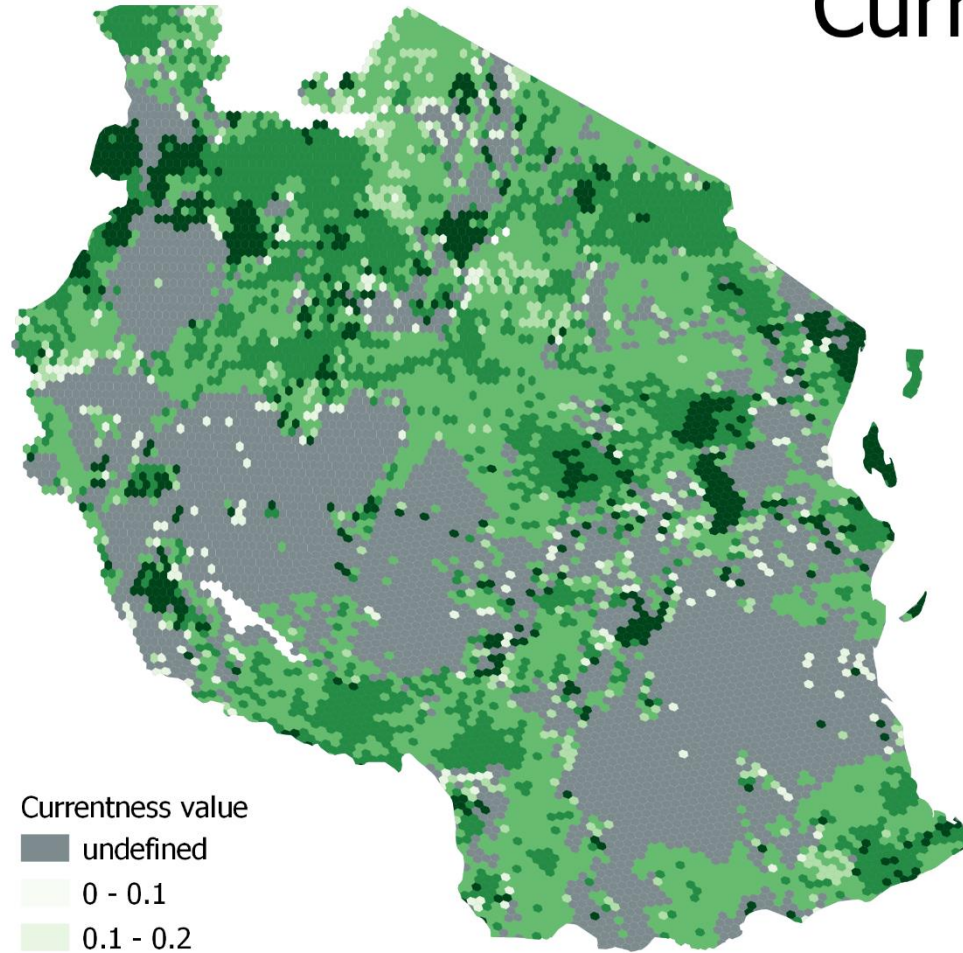
- 1 Great for beginners!
- 2 Don't forget to do you Buildings 101 Badges

| | Last week | Today | |
|-----------|-----------|-------|-----|
| Mapped | 49% | 88% | 39% |
| Validated | 13% | 28% | 15% |

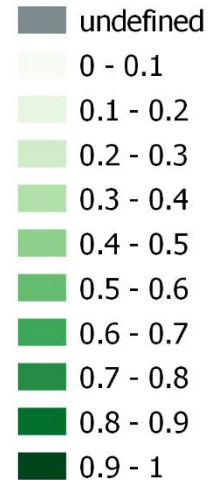
Currentness for building count



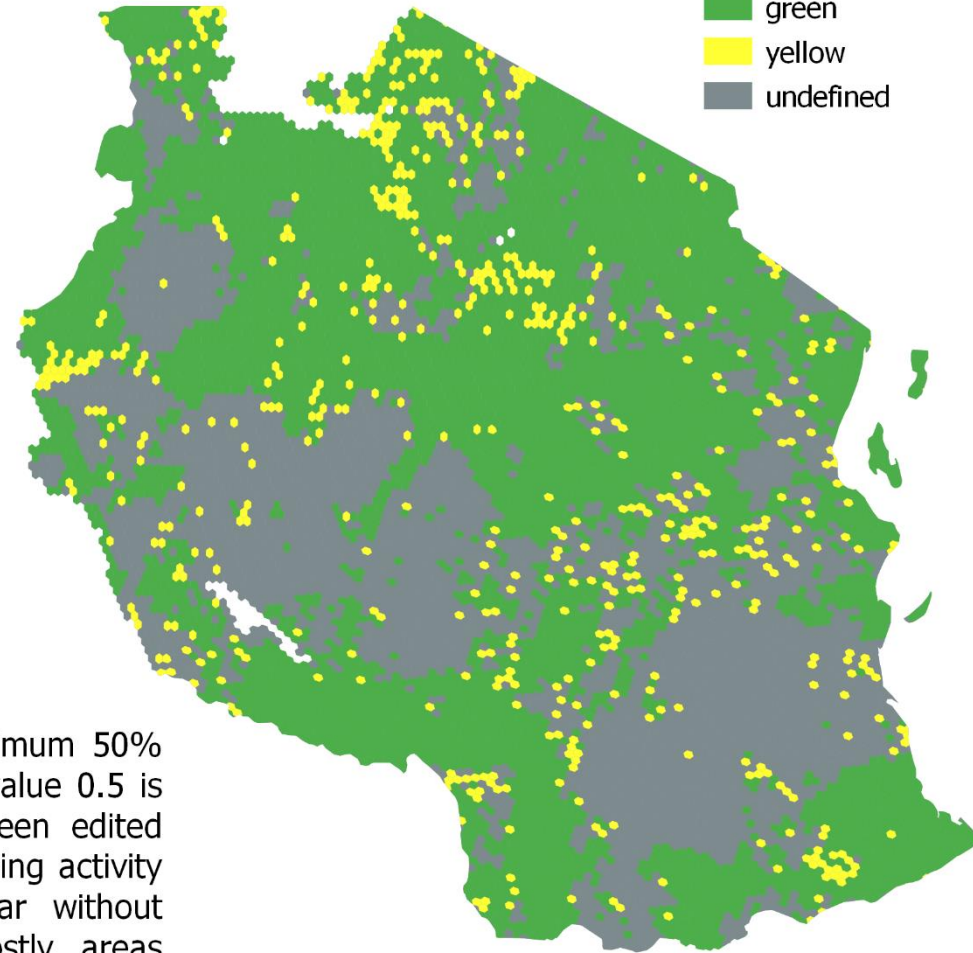
HEIDELBERG INSTITUTE
FOR GEOINFORMATION
TECHNOLOGY



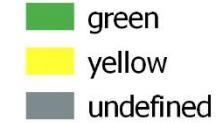
Currentness value



The currentness value is equal to 0.9 if minimum 50% have been edited since 2021. Accordingly a value 0.5 is reached when 50% of the features have been edited before 2018. In case there is no recent mapping activity the value is reduced by 0.1 for each year without mapping activity. Undefined areas are mostly areas without existing elements.



Currentness label



Press on Create account

09:42

Herry Tigo Mugumu


Create an account

| | |
|--|----------------------|
| Name | Organization name |
| <input type="text"/> | <input type="text"/> |
| Username | |
| <input type="text"/> | |
| E-mail | |
| <input type="text"/> | |
| Sector | Country |
| <input type="text"/> | <input type="text"/> |
| Gender | |
| <input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Other | |
| Password | |
| <input type="password"/> | |
| Password strength | |
| <div><div></div></div> | |
| Use a few words, avoid common phrases No need for symbols, digits, or uppercase letters | |

Fill in details

09:42

Herry Tigo Mugumu



Done

Okay

1

Hi

[illegible]

16 Youthmapper Chapters in Tanzania

| Year | University or Institution of Higher Education | YouthMappers Chapter | City / Town | Country | Public Email Address |
|------|--|---|------------------------|-----------|---------------------------|
| 2018 | Universidade de Santiago de Compostela | YouthMappers at USC | Santiago de Compostela | Spain | youthmappersusc@gmail.co |
| 2021 | Eastern University | YouthMappers at Eastern University, Sri Lanka | Vantharumoolai | Sri Lanka | mapperssrilanka@gmail.co |
| 2021 | University of Khartoum | Khartoum YouthMappers | Khartoum | Sudan | Hamad29911992@gmail.co |
| 2017 | Ardhi University | ARU Mappers | Dar es Salaam | Tanzania | bayonakennedy@gmail.com |
| 2019 | COMENIUS POLYTECHNIC INSTITUTE | CPI MAPPERS | TABORA | Tanzania | info@cpi.ac.tz |
| 2018 | Institute of Finance Management | IFM mappers | Dar es salaam | Tanzania | supermalik95@gmail.com |
| 2017 | INSTITUTE OF RURAL DEVELOPMENT PLANNING - DODOMA | MIPANGO YOUTHMAPPERSCHAPTER- DODOMA | Dodoma | Tanzania | msmapperschapter@gmail. |
| 2017 | INSTITUTE OF RURAL DEVELOPMENT PLANNING - LAKE ZONE CENTRE, MWANZA | YOUTHMAPPERS CHAPTER AT INSTITUTE OF RURAL DEVELOPMENT PLANNING - LAKE ZONE CENTRE, MWANZA ER | Mwanza | Tanzania | irdpyouthmappers@gmail.co |
| 2020 | Muleba Lutheran Vocational Training Centre | YouthMappers at Muleba Lutheran Vocational Training Centre | Muleba | Tanzania | |
| 2020 | Murgwaza School of Nursing | MSN Youth Chapter | Ngara | Tanzania | msnyouthchapter@gmail.co |
| 2018 | Open University of Tanzania | Youth Mappers at Open University of Tanzania | Dar es salaam | Tanzania | youthmapout@gmail.com |
| 2019 | Serengeti Tourism College (SETCO) | SETCO YouthMappers | Mugumu | Tanzania | setco.youthmappers@gmail |
| 2018 | Sokoine University of Agriculture | SMCoSE YouthMappers | Morogoro | Tanzania | SMCoSEyouthmappers@gr |
| 2019 | State University of Zanzibar | SUZA YouthMappers | Zanzibar | Tanzania | raya.ahmada@suza.ac.tz |
| 2019 | SUMAIT UNIVERSITY | Sumait University Geography Society | Zanzibar - chukwani | Tanzania | sumaitsugs@gmail.com |
| 2019 | The Nelson Mandela African Institution of Science and Technology (NM-AIST) | NM-AIST Mappers Association | Arusha | Tanzania | makawaa@nm-aist.ac.tz |
| 2017 | University of Dar es Salaam. | YouthMappers at University of Dar es Salaam | Dar es Salaam. | Tanzania | udsm.youthmappers@gmail |
| 2019 | University of Dodoma | YouthMappers at Dodoma University | Dodoma | Tanzania | youthmappersudom@gmail |
| 2021 | Institute of Accountancy Arusha | IAA YouthMappers | Arusha | Tanzania | iaayouthmappers@gmail.co |



Aug 27

Tanzania Mapping Groups August Mapathon

by [Crowd2Map Tanzania](#)

208 followers

[Following](#)

Free

[Register](#)

Everywhere She Maps



**SECURITY
IMPROVES**

**LIVES ARE
SAVED**

**POWER IS
GENERATED**

**PROSPERITY
RISES**

**INNOVATION
HAPPENS**



Congratulations **Aminata, Grace, Shelia, Asya, Zamzam, Gifthope, Bintkhamis, Lidia, and Innocencia** on your Crowd2Map Internship through the Everywhere She Maps Internship Match Program!



**CROWD2MAP
TANZANIA**
Putting rural
Tanzania on the map
crowd2map.org

REMOTE MAPPERS

VS

DIGITAL CHAMPIONS

Highly educated to degree level or beyond

Have used maps in their daily life since childhood

Own and can skilfully use a large range of technology

Many did not complete secondary school

Had never seen a map of their local area

Had never used a smartphone, or laptop or been online.



Female mappers face additional challenges:

- Men telling them they are “wasting their time” and should be at home doing their chores
- Harrassment, threats and inappropriate touching from men, particularly when travelling on public transport
- Plots to lure them to remote places to be raped



How can these challenges be overcome? IN THEIR WORDS

1. Educating people about maps and mapping and its importance to the community and nation at large.
2. Men in villages to be educated on gender equality and treating women right.
3. Security to be increased in villages; for example presence of more police stations



SO WHY DO WOMEN MAP? IN THEIR WORDS

1. We do it to help increase development in our communities.
2. To help girls escape FGM
3. To help other women in villages be able to escape gender based violences like women beating
4. To be part of change in our communities and progress to the SDGs



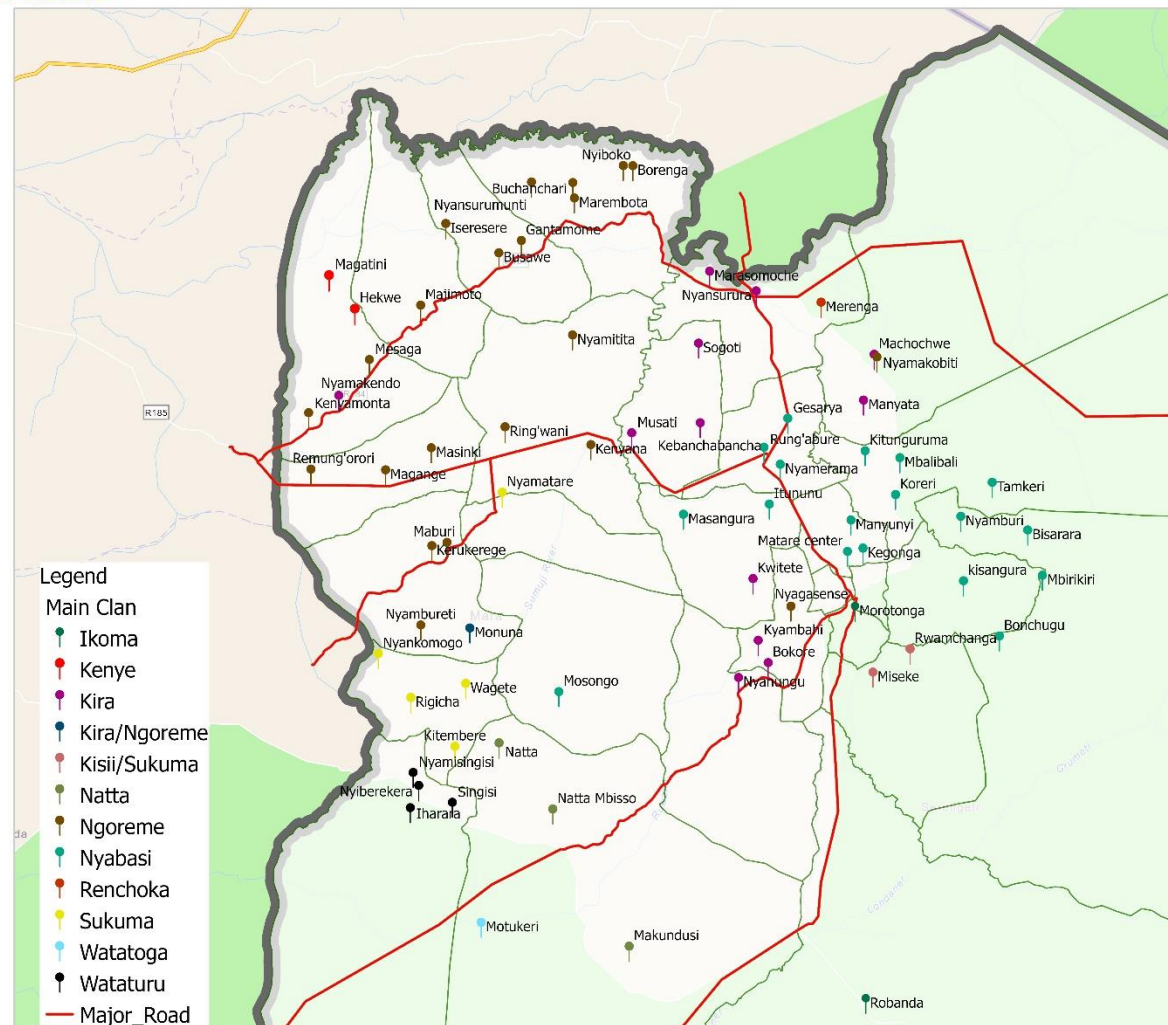
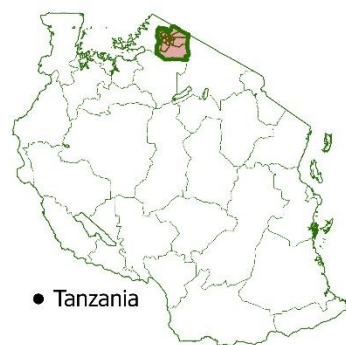
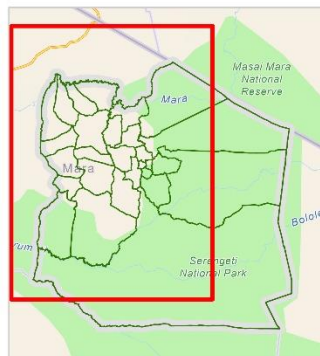
HOW CAN THE MAPPING COMMUNITY HELP?

- Recognise additional challenges faced
- Put in structures to assist ie 50% participation, women only groups, role models, being mindful of male domination in training.
- Mapping aspects that are of importance to women.
- More materials on why mapping rural areas benefits women.
- Recognising additional funding needs



Serengeti District, Tanzania

Village Locations and Clan name



Volunteer mapping project has saved 3,000 girls from FGM in Tanzania, charity says

The project helps to connect girls with nearby safe houses

Clea Skopeliti • Friday 06 November 2020 16:39 •  Comments



Lessons Learnt

- Engaging uneducated marginalised rural communities is hard but rewarding
- Training opportunities are hugely appreciated
- Women have many additional challenges
- Building relationships is key
- Long term



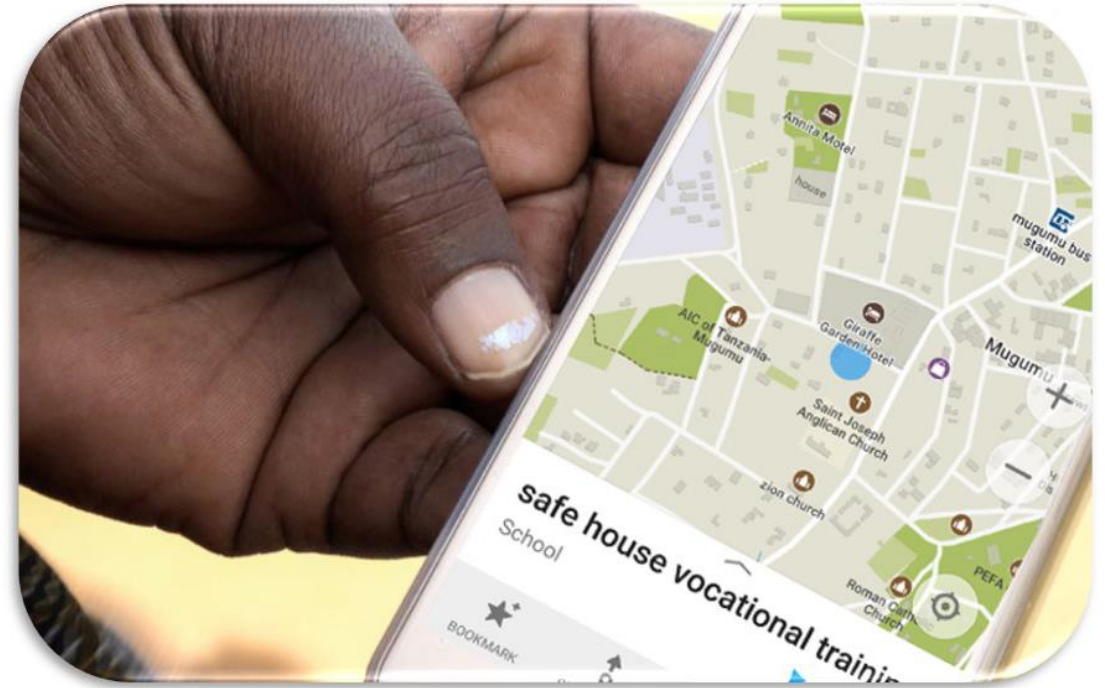
Giving rural African women the digital tools to **map**, **educate** and **protect** their sisters is an extremely cost effective, long term solution to empower women in isolated, impoverished rural communities.

Giving rural African women the digital tools to **map**, **educate** and **protect** their sisters is an extremely cost effective, long term solution to empower women in isolated, impoverished rural communities.

And make our
community more
inclusive..



Janet Chapman
Chair, Tanzania Development
Trust, Crowd2Map founder
j.chapman@tanzdevtrust.org



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