

# Citizen generated Data for Localized DRR and CCA

*Fathimath Lahfa, Head  
of Exploration*

nesto



# Climate problem

**Compound & cascading effects of climate change & sea level rise** that include

- beach erosion
- extreme weather leading to flooding and sea swells,
- threatened freshwater lense, critical infrastructure and livelihoods



**Most islands do not have a localized DRR and CCA plan** based on the island's unique hazards, vulnerabilities and capacities.

**Data Gap: Lack of georeferenced data** and information at island level to enable risk informed planning.

**Doing Gap: Lack of community participation and disconnect** between local and national level [data/policy/decisions]



# Value Proposition

## Community Value Proposition

Enable community participation in island level Disaster Risk Reduction & Climate Change Adaptation (DRR/CCA)

## Stakeholder Value Proposition

Generated accurate geo data of the island that is useful for local planning and decision making.

Enrich national level DRR/CCA data systems with citizen generated data.



# Participatory Mapping

CI Method: participatory mapping to develop an accurate island basemap.

Solution: Using rich Basemap to create Hazard, Vulnerability & Capacity Map (HVCA) that can be used for island level DRR/CCA



# Open Call




**Application form**  
<https://bit.ly/3FnVqpk>



**Inviting the community of  
Fuvahmulah City!**

Join the workshop on 'Community  
Participation for Climate Action!'

 25-26 Oct 2023

 Fuvahmulah City

**Sign up by 23 October, by 1300hrs.**



**ދިވެހިސަރުކާރުގެ ގެޒެޓް**  
<https://bit.ly/3Ebcy0Q>



**ސަރުކާރުގެ ގެޒެޓްގައި ބަޔާންކުރި ގޮތުގައި  
 ފުވާހުމުލާހުގެ ކޮމިއުނިޓީއަށް ފުވާހުމުލާހުގެ ސަރުކާރުގެ ބޭނުންތަކާ ގުޅިގެން  
 ޖަމާއިއްޔާތަކާ ގުޅިގެން ޖަމާއިއްޔާތަކާ ގުޅިގެން ޖަމާއިއްޔާތަކާ ގުޅިގެން**

**ބަޔާންކުރި ގޮތުގައި**

**ފުވާހުމުލާހުގެ ކޮމިއުނިޓީއަށް ފުވާހުމުލާހުގެ ސަރުކާރުގެ ބޭނުންތަކާ ގުޅިގެން  
 ޖަމާއިއްޔާތަކާ ގުޅިގެން ޖަމާއިއްޔާތަކާ ގުޅިގެން ޖަމާއިއްޔާތަކާ ގުޅިގެން**

**25 ޕްލެއިން ޑޭ** 

**ސ. ޕްލެއިން ޑޭ** 

**23 ޕްލެއިން ޑޭ 13:00 ޕްލެއިން ޑޭ ފުވާހުމުލާހުގެ ކޮމިއުނިޓީއަށް ފުވާހުމުލާހުގެ ސަރުކާރުގެ ބޭނުންތަކާ ގުޅިގެން**

# Onboarding and training

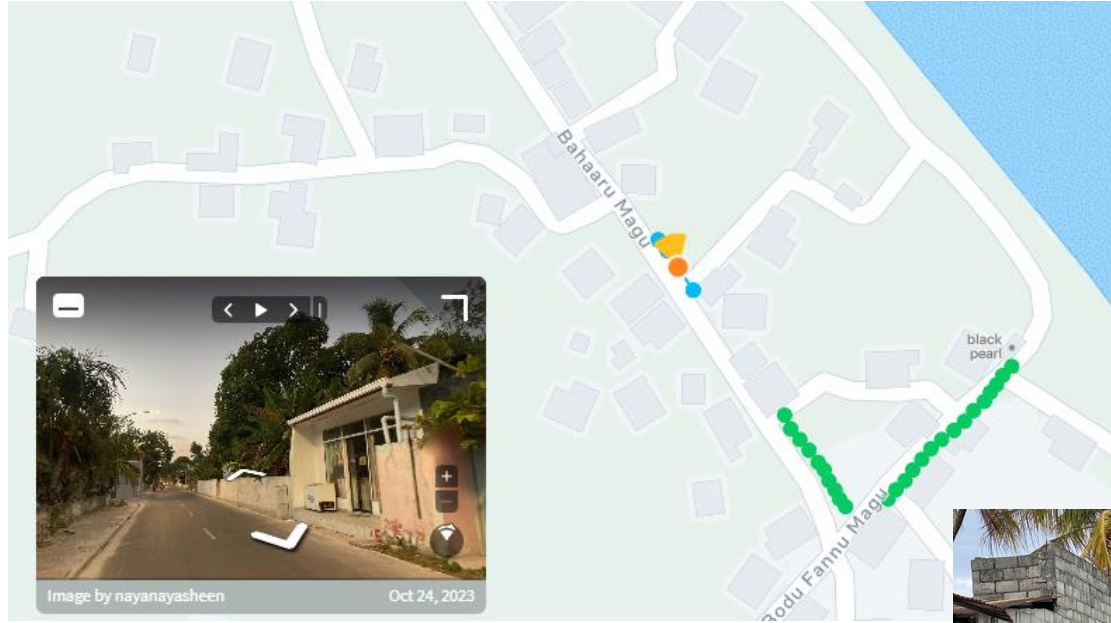


# Mapping 1: The basics





# Mapillary



# Open Street Maps

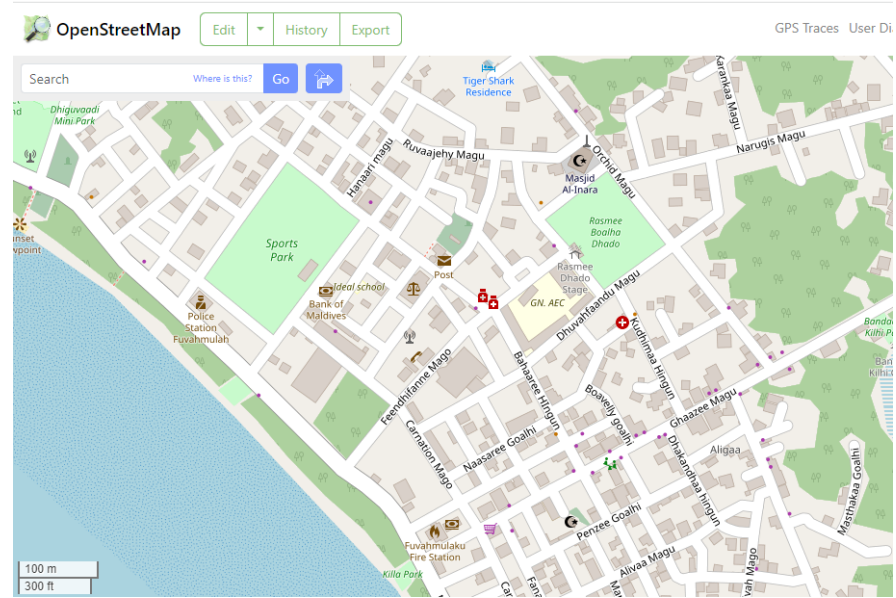
OpenStreetMap is a free, open geographic database updated and maintained by a community of volunteers via open collaboration. Contributors collect data from surveys, trace from aerial imagery and also import from other freely licensed geodata sources.

## View and edit OpenStreetMap Data

<https://www.openstreetmap.org/#map=15/-0.2947/73.4252>

## Download OpenStreetMap Data

<https://export.hotosm.org/en/v3/>



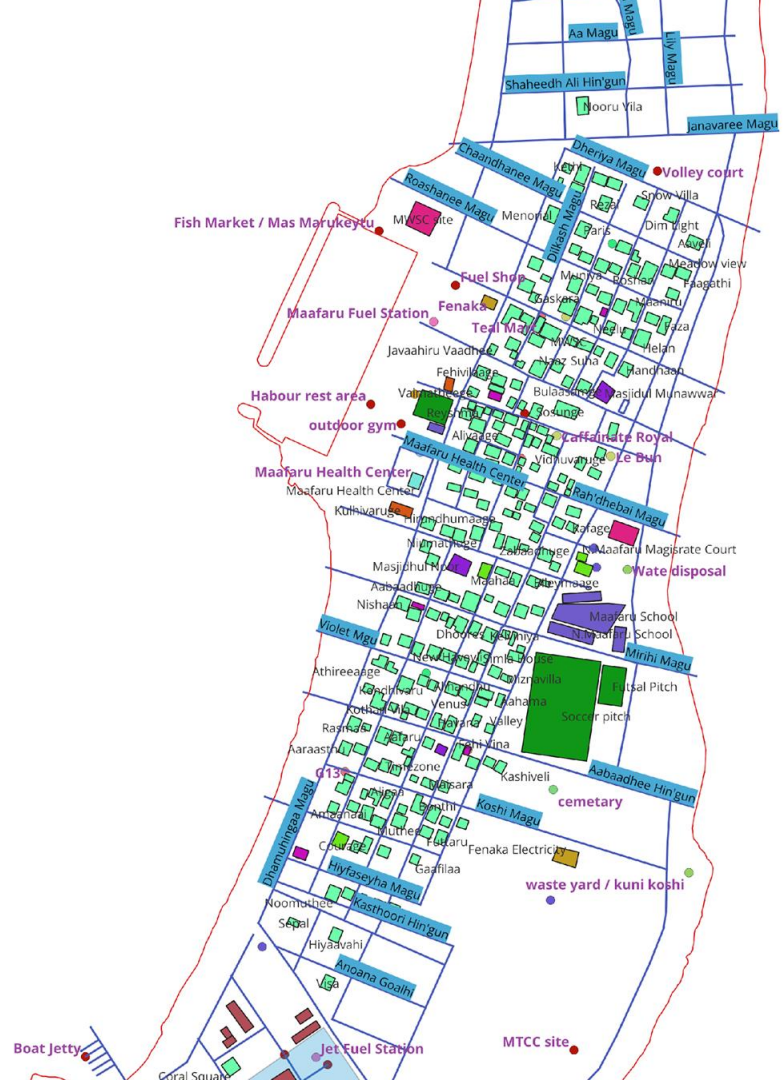
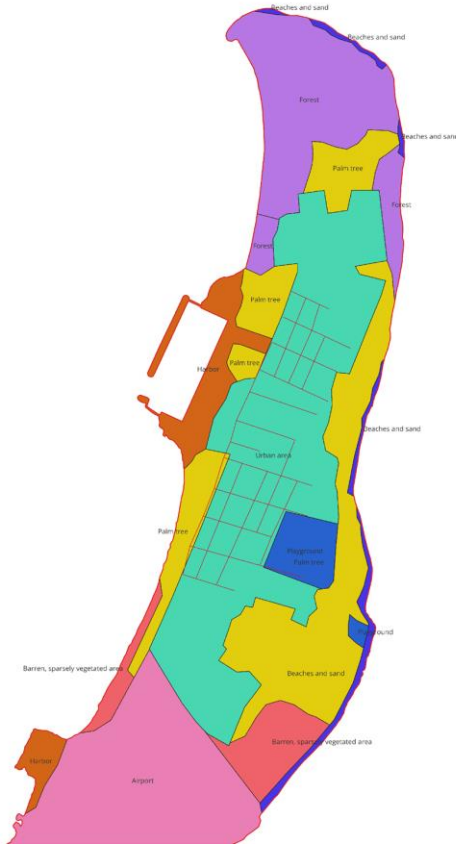
# QGIS

QGIS is a free and open-source cross-platform desktop geographic information system application that supports viewing, editing, printing, and analysis of geospatial data.

<https://qgis.org/en/site/forusers/download.html>



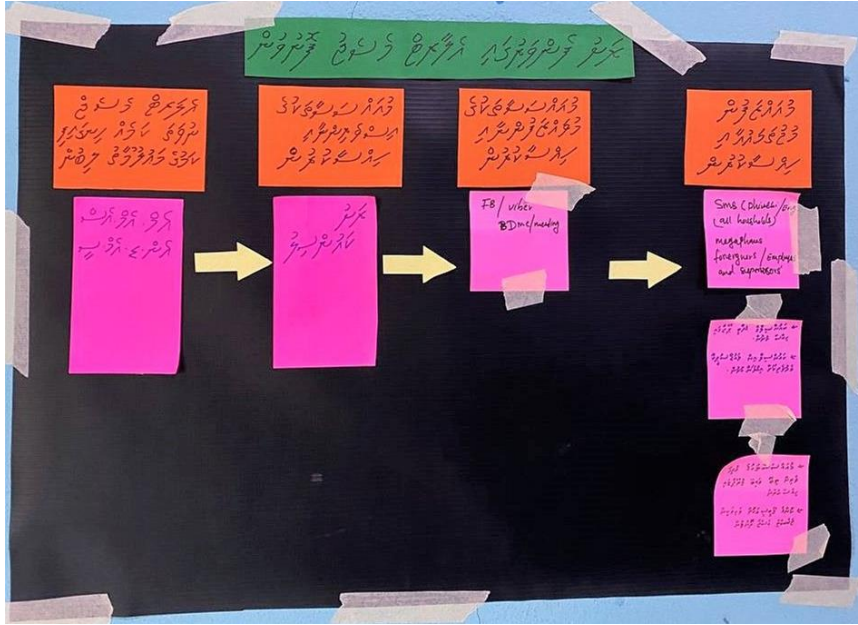
# Basemap



# Mapping 2: Hazard, Vulnerabilities and Capacities map



# Island Disaster Management Plan



# Learnings

*“Knowledge is power. It gives us confidence to talk about the issues”*

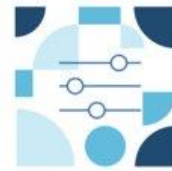
*Participation-Those who can and those who can't / don't*

*Data: Utility, coordination and integration with national systems*



# Collective Intelligence (CI)

Harnessing the collective intelligence of people *and* the power of digital technologies







Scan to read blog by UNDP Maldives Accelerator Lab “Beyond lines, points and polygons: Maps that amplify collective voices of communities



# Thank you



Watch UNDP Maldives Accelerator lab's CI4Climate journey with the Fuvahmulah community in the video "Rashi Experts / Local Experts"

