Use of GIS-mapping tools in local community resilience work

Arlina “Arlene” Mahinay
VSO Philippines

21 June 2018
VSOP-LAFCCOD initiative

VSO Philippines is part of VSO International, a development organization that works through volunteers.

VSO Philippines’ and LAFCCOD’S resilience programme focuses on:
-- resilience in the context of conflict (main)
-- resilience in the context of natural hazards
Location of resilience work of VSO Philippines and LAFCCOD: Tukuran, Zamboanga del Sur

Tukuran population: 39,820 (as of 2015 census)

Groups of people in Tukuran:
> Moros (Muslim)
> Christians
> Indigenous peoples

Specific villages/barangays supported: 8
> Alindahaw, Lower Bayao, Militar Panduma Senior, San Carlos, Santo Nino, Sugod, Tagulo
Where the 8 villages/barangays are located
Major man-made and natural disasters that hit Tukuran in the past decades
1. Barracuda-Iлага conflict in the 1970s
Which resulted in the displacement of Muslim and Christian communities...
Earthquake in Moro Gulf (1976)
2. Tsunami that hit Tukuran (Moro Gulf) in 1976

3. Communist insurgents-government conflict
Even small flooding would have huge impact to people
VSOP-LAFCCOD initiative

community resilience work
Rapid Risk Assessment (RRA) process
RRA process
Example: timeline
## Seasonality Calendar

### Event/Act:

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Resource mapping
Resource mapping
Hazard mapping exercise

Welcome speakers, guests, & participants to the COASTAL RESOURCE & HAZARD MAPPING

LGU Beach Resort Seminar House
Tukuran, Zambo. Del Sur
Feb. 26 to March 1, 2017

Supported by:
VOLUNTEER SERVICE OVERSEAS (VSO-PHILIPPINES)

Presented by:
LAFCCOD, INC. in coordination with Municipal Government of Tukuran, DENR, BFAR, POs, & BLGUs.
The coordinates as reflected in the geo-cam

8°3'54"N, 123°48'31"E
accuracy: 5m

Altitude
76 m

04/05/2018
11:18 AM
Geo-mapping exercise
Geo-mapping activity
Map produced from geo mapping exercise
Eco-system map
Map of the marine sanctuary
Map displayed in the village center
MUNICIPAL ORDINANCE No. 13-04-2004: CRM Code

Section 01. Penalty.
Under existing municipal ordinances, any person violating the provisions of this ordinance shall be meted the penalty of imprisonment of not less than 10 days to not more than 6 months, or a fine of not less than Php1,000.00 but not more than Php2,500.00, at the discretion of the court, taking into account the gravity of the offense.
Key learnings:

• The output is accurate and scientific, yet easy to understand and use by people
• It was not only the people from the local government units who were inspired by this. The use of the geo-mapping app also made the youth interested to participate in the exercises.
• Any smart phone can be used
• Can be used off-line.
• The maps inspire people to discuss more extensively about their plans to address resilience-related issues
• Because it is visual, the resources, or the presence of hazards became even more concrete for people, and help them in analyzing their situation
• A good focal point in encouraging people to discuss extensively
• Inspire the LGU to participate and work together with community people.
Thank you!