Community Mapping in Africa

Mark Iliffe: Horizon Digital Economy CDT
Community Mapping
Bottom-up SDI?


Aberley (1993) and King and Clifford (1985) produces an agenda for community mapping:

- Reasserting indigenous people's rights
- Re-publishing the past for contemporary consumption advancing local claims to land
- Re-mapping lost place-names
- Protecting local wildlife in the face of development
- Conserving landscapes threatened by agribusiness
- Protesting against planners
- Opposing military power
- Rejecting surveillance
- Showing the powers-that-be what might be locally distinctive.

Hence, by nature, Community Mapping = Volunteered Geographic Information
Tandale, August 2011
PLATFORM:
TAARIFA
Introducing #Taarifa

Mark Iliffe

taarifa.org
Ministry of Local Government
Taarifa - Development version **UNDER TEST**

FILTERS | REPORTS | NEWS | PICTURES | VIDEO | ALL

CATEGORY FILTER [HIDE]

ALL CATEGORIES
- HEALTH
- WORKS
- WATER
- OTHER
- MOLG

How to Report
1. By sending an email to taarifadev@gmail.com
2. By filling this form

RSS Feeds (copy the url below)
http://dev.taarifa.org/Feed/
QUALITY: BUILD IT IN
## Measuring VGI Data Quality

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Definitive Total Length 4,728,128.50m
OSM Total Length 4,319,135.92m
Discrepancy 408,992.58m (8.65%)
HOW DO YOU MEASURE QUALITY WHEN THERE IS NO COMPARATIVE DATASET?
Work Domain Analysis

• Understand the system with a holistic approach, not just what happens, but what are the drivers and ‘values’ of the system to the physical objects.
  – Rasmussen et. al (1994) and Vicente (1999)
Future Work

• Thematic Mapping, understand the quality attributes and methodologies of Thematic Quality

• “Go all the way” with Work Domain Analysis
  – Getting past first base: Going all the way with Cognitive Work Analysis, McIlroy, R and Stanton, N. Applied Ergonomics (2011)

• Mark is in Dar es Salaam at present to test effects of permeation in the community
Contact

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GEM Inventory Data Capture Tools

Map view
- Zoom to your location
- Zoom in or out of map
- Export SQLite file for import into Windows tool
- START HERE: Access the set-up form to create a project to group subsequent survey points
- Exit the application

Form view
- Edit survey point position and attributes
- Change base layer or add KML vectors
- Capture photo linked to this record
- Export text file (CSV)
- Delete this survey record
- Delete all survey records from this device
- Return to map screen
- Scroll and tap ticks to access different survey components
- Tap to make a selection from a list
- Tap to choose one list item
- View IDs of photos linked to this record
- View glossary of selected item
- Display menu items (all forms)
References

- Getting past first base: Going all the way with Cognitive Work Analysis, McIlroy, R and Stanton, N. Applied Ergonomics (2011)