

GeoSpatial Tools for Monitoring & Evaluating Peacebuilding Programs

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Today's Plan

- Overview
- Deep Dive: Trace Roads and Buildings with OpenStreetMap
- Deep Dive: Map Violent Events with ACLED & Kepler GL
- Deep Dive: Estimate Beneficiaries with WorldPop and GeoTIFF.io
- Further Reading & Resources

Overview of GIS for M&E in Peace Building

Overview: Program Design

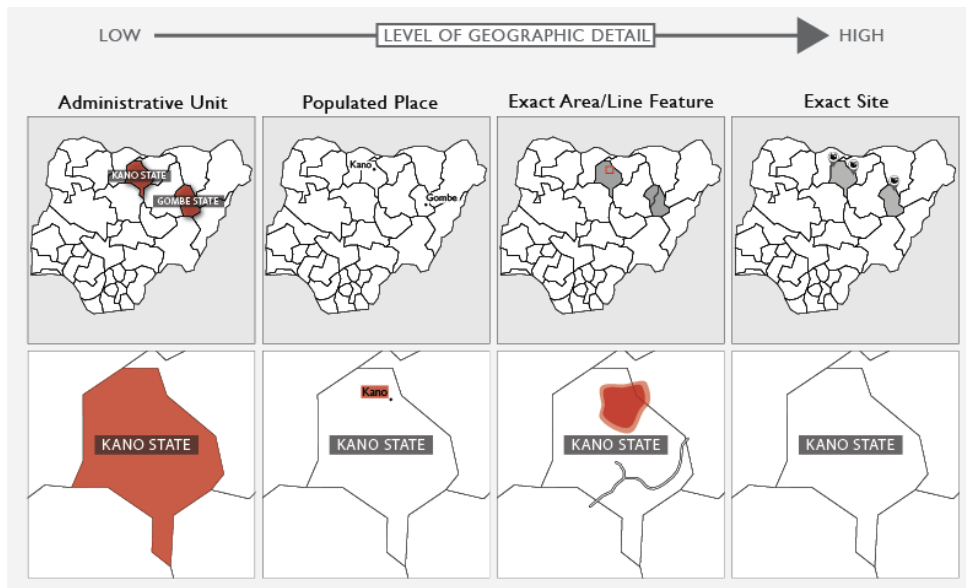
Goal	Broadest Change	Map the estimated level of violence by neighborhood
Objectives	Subgoals / Criteria	Map number of reported murders by neighborhood before and after a program
Outputs	Deliverable or Products	Map the location of agreements, new radio programs, marches, or soccer games
Activities	Concrete Services	Map the locations of planning meetings, workshops, or negotiations

Search for Common Ground, Designing for Results
<https://www.sfcg.org/Documents/manualpart1.pdf>

Overview: ADS 579

ADS 579

- ADS 579 governs USAID's data policy. It has recently been updated with supplemental guidance on collecting geographic data.
- *USAID Operating Units (OUs) will collect Activity Location Data at the most detailed geographic level appropriate for each activity they implement using one of the four Levels of Geographic Detail...*



Trace Roads and Buildings with OpenStreetMap

Deep Dive 1: OpenStreetMap

Objectives:

- Learn how to create fundamental data of where roads and buildings are

After this training you will be able to...

- Trace roads and buildings on OpenStreetMap
- Contribute to a global open database of geographic data
- Discuss the impact that open geospatial street map data has on programs

Visualizing Geo-Data with Kepler GL

Deep Dive 2: Visualizing Geo Data with Kepler.GL

Objectives:

- Learn how to visualize geospatial data to find latent patterns

After this training you will be able to...

- Import a csv (a type of spreadsheet used for sharing data) with geo data into kepler.gl
- Navigate the kepler's interface
- Be able to style data in different ways kepler.gl
- Filter data by its attributes

Estimate Beneficiaries with WorldPop and GeoTIFF.io

Deep Dive 3: Estimate Beneficiaries

Objectives:

- Learn how to estimate beneficiaries in a geographic area by age group

After this training you will be able to...

- Find Demographic Information on the WorldPop website
- Download and Unpack GeoTIFF Files
- Load a GeoTIFF on GeoTIFF.io
- Calculate the Sum of an Age Group within a Specific Area

Further Reading and Resources

Further Reading & Resources

OpenStreetMap

- [YouthMappers](#) - Free to use program (for USAID projects) for leveraging local groups of mappers
- [LearnOSM](#) - Tutorials and guides for using OSM

Kepler.gl

- [Making a map in 3 minutes with kepler.gl](#)
- [Making a choropleth map with kepler.gl](#)

Satellite Imagery

- GeoCenter Imagery Request Form: <https://geocenterusaid.org/remotesensing/request.html>
- HIU Imagery Request Form: <https://hiu.state.gov/imagery/request/>