

The MEASURE Evaluation Project: Using Geographic Information to Improve Decision-Making in Global Public Health

Excel to Google Earth (E2G) Tool

MEASURE Evaluation: Excel to Google Earth

Create thematic maps in Google Earth from Excel data for administrative areas.

Step 1: Select country.

Step 2: Select worksheet containing data to map.

Step 3: Select field containing names of administrative areas.

Step 4 (Optional): Select field containing second ID for administrative area labels.

Step 5: Select variable.

Step 6: Create variable description.

Step 7: Select type of classes.

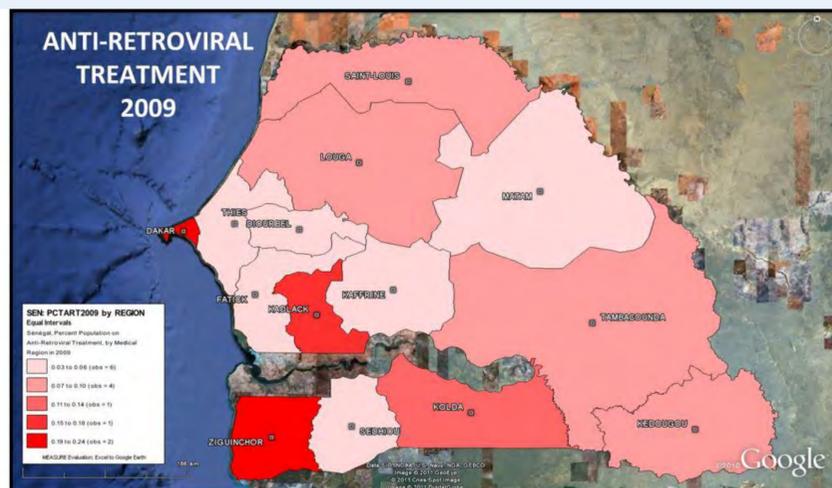
Step 8: Select number of classes.

Step 9: Select colors and create KMZ file for display in Google Earth.

Continue Quit

Step-by-step instructions, with tutorials included in download and help available via email

The E2G tool, with sub-country boundaries for over 40 countries, is freely available here: www.cpc.unc.edu/measure/e2g



DATA SOURCE: Senegal Ministry of Health and Prevention, HIV/AIDS Department, December 2010

Health data are often stored in Excel spreadsheet format. Google Earth provides free access to up-to-date background imagery, providing spatial context for countries that often lack digital spatial base data. This Excel Macro tool, created at MEASURE Evaluation, provides an option for quick and easy, step-by-step mapping of Excel data, without a GIS software investment and without costly training of personnel. The tool also encourages the use of a proper geographic data schema.

GIS Methods Publications, eLearning Courses

Geographic Approaches to Global Health

Process for Doing the Data and Tools: GIS as a Decision Support Tool—Thematic Mapping

You Decide...

These two maps of Côte d'Ivoire on the left both show the same population data, but use different methods of data classification. The first uses equal intervals and the second uses equal population. Which map emphasizes the dense coastal population? Which map better shows balanced groups of high, medium, and low population?

HIGH LIGHTS

These are the most common types of thematic maps:

- Choropleth
- Proportional symbols
- Isopleths
- Dot density

Population by province, Côte d'Ivoire, using two different data classification methods: equal intervals and equal population.

Global Health eLearning Center

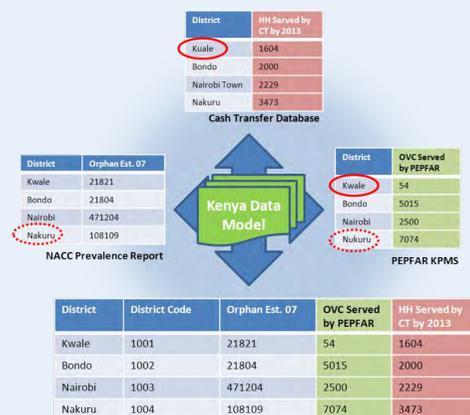
An Overview to Spatial Data Protocols for HIV/AIDS Activities

Why and How to Include the "Where" in Your Data



Available at www.cpc.unc.edu/measure: Publications, tools, and online learning, addressing spatial data protocols, spatial data confidentiality, GPS data collection, and health service mapping

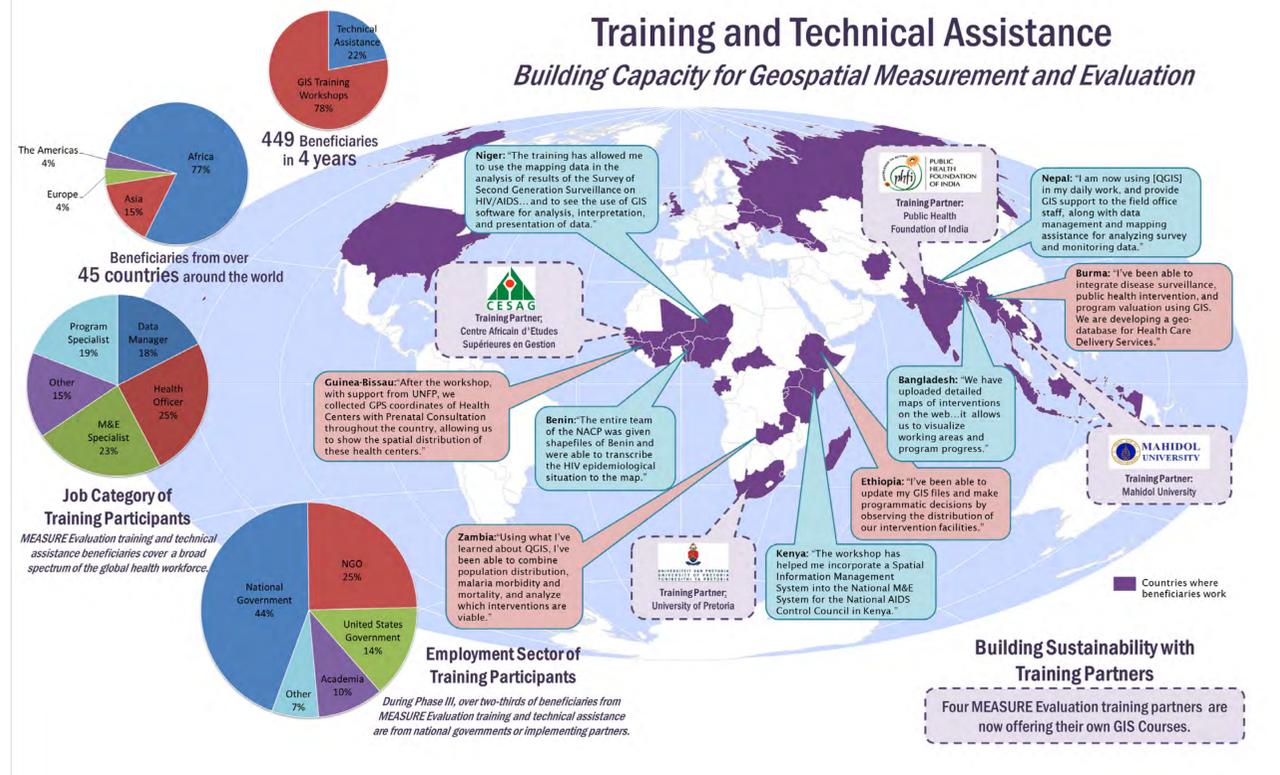
Health Systems Strengthening through Proper Data Collection and Data Schemas



The Kenya Data Model shows how data from several different agencies within one country can be joined using properly formatted geographic identifiers.

Training and Technical Assistance

Building Capacity for Geospatial Measurement and Evaluation



Conducted with regional training partners directly for key stakeholders in countries where we work. Guidance in data collection, formatting, and mapping in-country data.



For more information, please contact:
Becky Wilkes, MEASURE Evaluation
 Carolina Population Center
 University of North Carolina at Chapel Hill
bwilkes@email.unc.edu
 or visit: www.cpc.edu/measure

This research has been supported by the President's Emergency Plan for AIDS Relief (PEPFAR) through the U.S. Agency for International Development (USAID) under the terms of MEASURE Evaluation cooperative agreement GHA-A-00-08-00003-00, which is implemented by the Carolina Population Center at the University of North Carolina at Chapel Hill, with Futures Group, ICF International, John Snow, Inc., Management Sciences for Health, and Tulane University. The views expressed in this publication do not necessarily reflect the views of PEPFAR, USAID or the United States government.