

# Open source software

Built to meet CIET needs, used in distance education and by partner NGOs

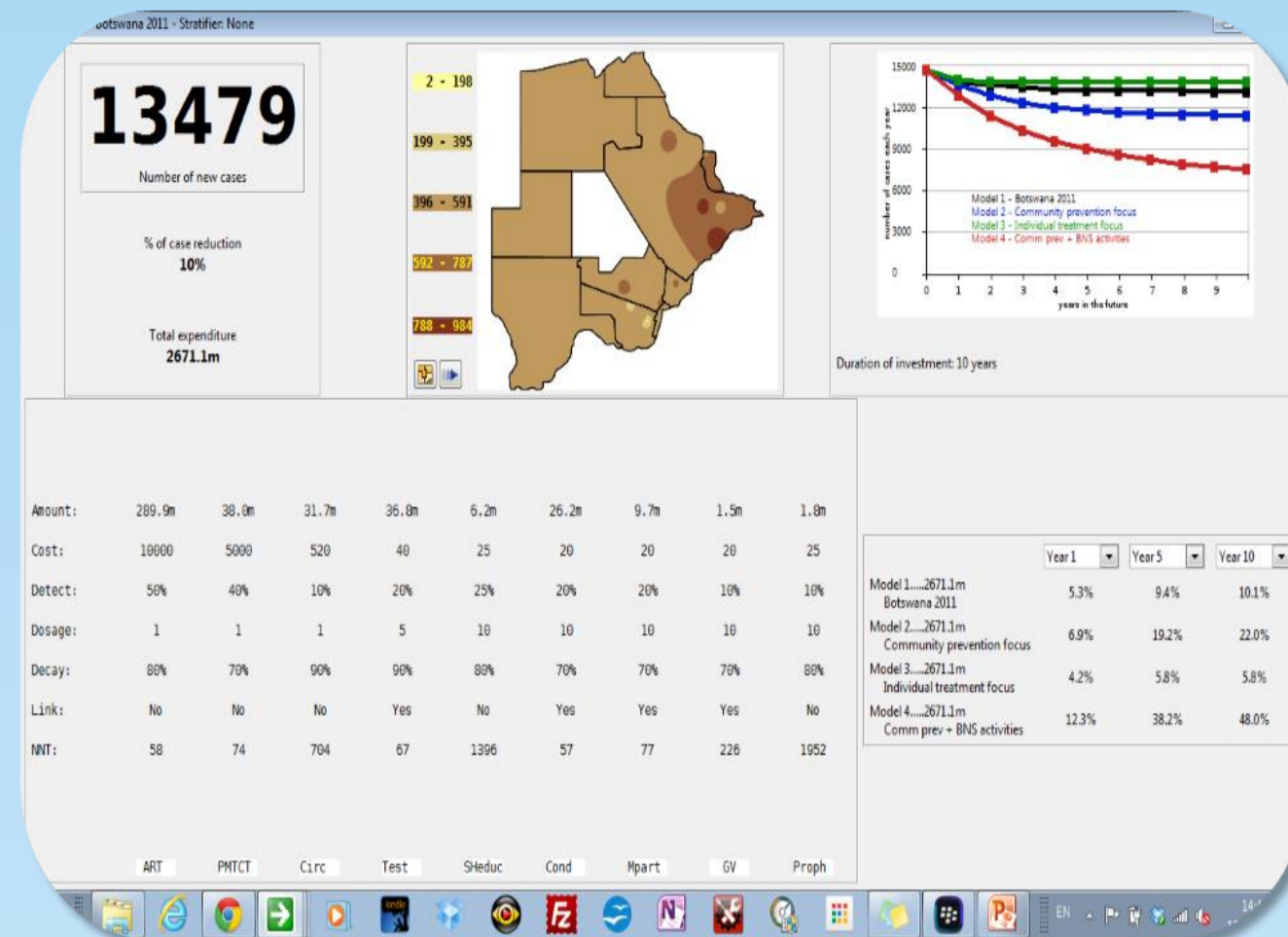
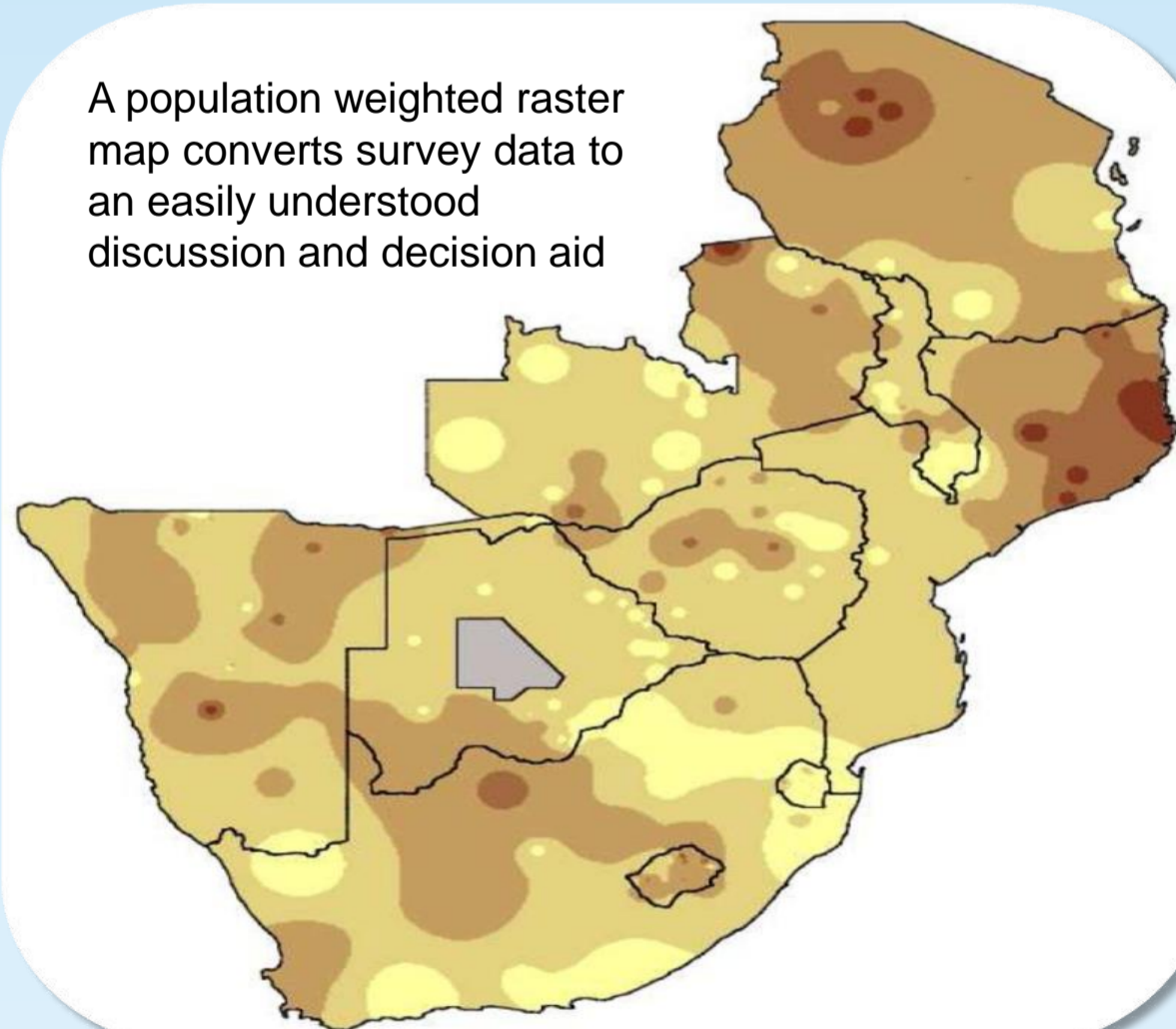
## CIET map

Since 1998, CIET has designed and built software for evidence-based planning. Initially this supplemented EpiInfo but later replaced this well known freeware for CIET trainees and partners.

CIETmap is an epidemiology analysis and geomatics package accessing R and other statistical packages through a windows interface. Analysis links seamlessly with raster or vector mapping, allowing interactive spatial presentation of survey or routinely collected data.

Most analysis uses simple EpiInfo commands; experienced users can access methods like MI, GEE and GLMM.

A population weighted raster map converts survey data to an easily understood discussion and decision aid



The "Gizmo": Budget models for HIV prevention

## Gizmo: policy decision tool

A decision aid within CIETmap combines systematic reviews, costs data and local survey data to model likely impacts of a given budget allocation across different investment options, allowing projections of gains and losses over 1-20 years.

Outputs are number of new cases expected each year (an indicator of progress), trend graphs and population weighted maps to show the likely impact in different locations.

This allows planners to choose between investment options.

## CIETdata gathering

CIETdg is an Android based client and server-based data integration system for one-off surveys and surveillance (linked surveys). An android tablet can run an interview using standard questions/answers, video clips, voice segments or pictures, sending the results to a server. There, data from different interviews can be joined as an integrated record. Uses include:

- visits during pregnancy (Nigeria)
- HIV prevention (Botswana)
- dengue prevention (Mexico).



An interview with data capture on a tablet, Nigeria

### For more information:

International Journal of Health Geographics 2006, 5:1.  
<http://nigeria.cietresearch.org>



Participatory Research at McGill

**CIET** Building the community voice into planning