

The CIET group:



- bring scientific research methods to local government and community levels
- •worked in 48 countries worldwide on a range of topics including sexual violence and HIV/AIDS, land mine awareness, prenatal care, education, water and sanitation
- dedicated to building the community voice into planning; capacity building

CIET levels of analysis:

- •level 0: coverage and outcomes (% of children vaccinated)
- •level 1: individual risk (odds ratios): the risk of an unvaccinated child compared with a vaccinated one
- •level 2: gains: # of children spared if all were vaccinated
- •level 3: combined gains: the net effect of different interventions (vaccination, food supplements etc)
- •level 4: investment options the best combination of interventions with the available resources

Use of GIS and maps in health planning: communication of evidence

- spatial perspective of access or risks
- visually summarise complex data
- •can be less intimidating than charts or graphs

However...

- •GIS software can be expensive (particularly in the developing country context)
- designed for use by GIS technicians and require training not easily available
- most are not designed in an epidemiological/health planning context

CIETmap: free GIS and analysis software

 analysis module can combine data from various sources; produce frequencies etc.



 data can be seamlessly linked to maps (raster and vector)

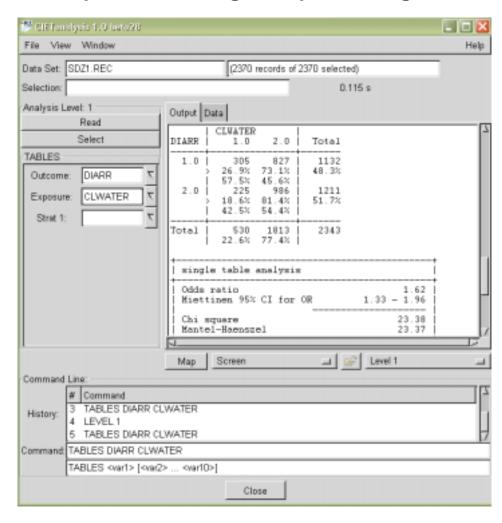


 CIETmap can be customized in order to accommodate specific groups

free to academic, non-profit and community researchers

CIETmap: analysis module

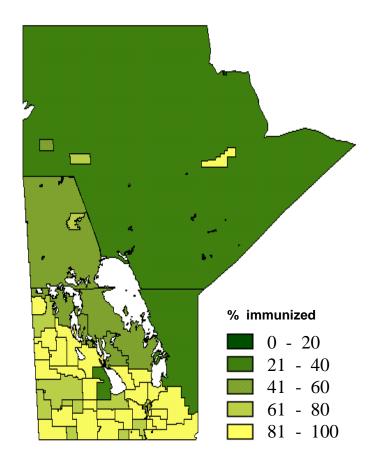
The analysis module is capable of most types of epidemiological analysis. It allows for basic frequencies through to epidemiological models of gains



CIETmap: vector maps

Vector maps can display layers like administrative boundaries and geographic features; and layers can be classified based on fields in the database



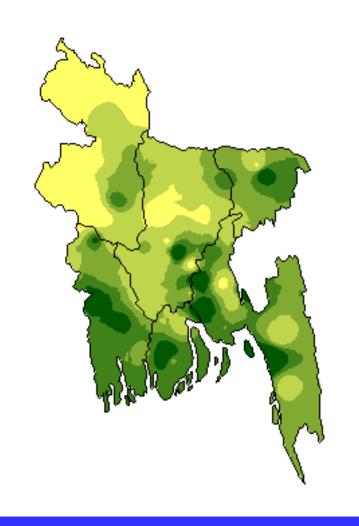


CIETmap: raster maps

Raster maps are interpolated from a set of sample points (communities) that are weighted to represent the population

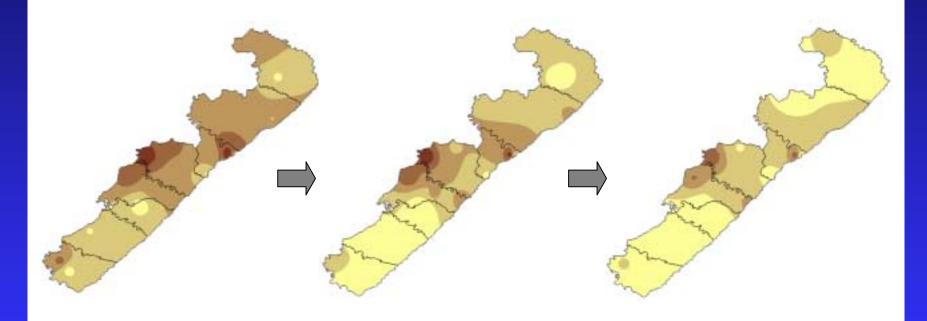
% of households with access to clean water

- 0 20
- 21 40
- 41 60
- 61 80
- 81 100



CIETmap: morph maps

The morph map module can be used to show the change in a variable over time (time-series), or to model the effect of a program (gains)



% without sufficient food

% without sufficient food after implementing Program A

% without sufficient food after implementing Program A and Program B

CIETmap: free GIS and epidemiology software helping to build the community voice into planning

Who can use CIETmap?

- planners and decision makers
- academics and researchers
- other non-GIS technicians

CIETmap can be customized

- additional modules
- custom colour palettes
- preference settings
- help files/training modules

CIETmap v1.0: technical specifications

- built using OpenEv and Python
- •installation file: approx 12mb, expands to 20mb
- Windows platform
- •currently in 29th beta format; expected release: Fall 2004