CIETmap: free GIS and epidemiology software from the CIET group, helping to build the community voice into planning

Neil Andersson and Steven Mitchell

You don’t have to be a meteorologist to read a weather map, and you don’t need a GIS expert to interpret a CIETmap.

CIETmap is an analysis, decision and communication tools to share facts from surveys and services in a way that is easy to understand.

CIETmaps weight for population size. A sample or all communities create a continuous raster surface of each indicator. Dark areas represent populations in need of attention or more investment.

The epidemiology analysis module allows interaction with a range of statistics, from simple or weighted frequencies through to epidemiological models of gains with different investment strategies.

‘Morph maps’ show variations in an indicator over time, or they can model different investment scenarios.

Maps can help to take decisions:
- potential impact of an intervention
- compare interventions from place to place
- evaluate synergies of interventions

CIETmap can be used for:
- raster surface mapping
- vector polygon mapping
- analysis and modelling
- population weighted interpolation
- time-series maps
- investment scenarios
- communication of findings

CIETmap can be customized:
- custom colour palettes
- preference settings
- help files/training modules

Who can use CIETmap?
- planners and decision makers
- academics and researchers
- other non-GIS technicians

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The five CIET levels of indicators:
Level 0 - outcome and coverage, weighted or unweighted by population: % of children vaccinated
Level 1 - individual risk (odds ratios): the risk of an unvaccinated child compared with a vaccinated one
Level 2 – gains (population attributable %): the number of children who would be spared if all were vaccinated
Level 3 - combined gains: the net effect of vaccination, deworming, food supplements, etc – whatever has an impact
Level 4 - investment options: the best combination of interventions with the available resources

The CIET group of non-profit, non-governmental organisations, charities and research institutes is dedicated to building the community voice into planning. CIET involves communities in gathering and interpreting quantitative and qualitative evidence. CIET analysis focuses on impact, coverage and costs, to produce locally relevant community-led solutions.

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