

PUMA

PUMA (Platform for Urban Management and Analysis) is an online geospatial tool created by the World Bank's EASIN unit, which allows users with no prior GIS experience to access, analyze and share urban spatial data in an interactive and customizable way.

Beginner's Guide

Click 'select in map' to select an administrative unit. You can also select via the graphs and tables on the right. Select using different colors for easy comparison.

Select the time point (2000 or 2010, +/-), or Ctrl+select both to see a side by side comparison (as shown). You can also do this with the "Multiple maps" tool.

Explore the various layers *within the selected theme* by selecting from this menu. Click on **i** for info on each layer.

Change the level of administrative unit.

Explore different types of data, each of which has some pre-set visualizations.

Click the button on the left and then anywhere else to go to the help page for that topic, or click on the button on the right to access the complete help pages.

Add custom graphs.

Save files or create snapshots of maps or graphs. Snapshots can be retrieved above the graphs.

The screenshot displays the PUMA web application interface. The top navigation bar includes 'Scope' (Local), 'Place' (Surabaya), 'Theme' (Land Cover), and 'Visualization' (LC structure - overvi). A 'Year (+/-)' selector is set to 2000, and an 'Analysis level' selector is set to '+'. The left sidebar contains 'Select in map', 'Selection color', 'Layers' (with 'Layers available' and 'Layers selected' sections), and 'Map tools' (including 'Hover', 'Zoom selected', 'Measure line', and 'Measure polygon'). The main map area shows a side-by-side comparison of land cover data for 2000 and 2010, with administrative units like Bangkalan, Surabaya City, Lamongan, Jombang, Pasuruan, Pare, and Batu visible. The right sidebar features a 'Page 1 of 1' indicator, a 'Only selected' filter, and a 'Displaying 9 of 9' status. Below this are four pie charts for Mojkerto, Mojkerto City, Pasuruan City, and Sidoarjo. A legend for 'Land cover-aggregated' shows categories: Artificial areas (red), Agricultural land (yellow), Natural and semi-natural areas (green), and Water (blue). A graph titled 'Artificial land x Natural areas' shows the percentage of aggregated LC classes for Surabaya City (2000): Natural and semi-natural areas (2.79%) and Artificial areas (59.40%).