CUBE is the most widely used and most complete transportation analysis system in the world. With Cube, Citilabs integrates the world’s standard in GIS software, ArcGIS technologies from ESRI. Cube offers a seamlessly integrated travel forecasting, traffic simulation, and transportation GIS software suite.

Cube’s broad range of capabilities answers all of your planning and traffic engineering questions. With Cube you can evaluate public transit alternatives, road pricing strategies, land use developments, freight terminal locations, updated signal plans, and alternative geometric designs. Cube generates decision-making information quickly, using powerful modeling and GIS techniques, statistics and comparisons, reports and graphs, high-quality graphics and stunning animations. Cube empowers you to make smarter decisions more quickly by uncovering key indicators for evaluating your planning alternatives helping you to create a better future. More than 2,000 cities in more than 70 countries use Cube. Cube is backed by over 25 years of research, development, and application. Cube is a complete travel forecasting family of software products that provides exceptional and easy to use capabilities for the comprehensive planning of transportation systems. Users of Cube combine Cube Base, the system interface, with one or more Cube Extensions depending on their planning tasks (Cube Voyager, Cube Analyst, Cube Avenue, Cube Cargo, Cube Land e Cube Cluster). This structure allows the professional planner to add functions as required without the need to learn a new interface or create multiple planning databases.

Cube Base is the system interface and it has four work areas: Cube GIS (GIS Window) for data editing, analysis, and mapping; Application Manager (Model Development Window) to design, document, and calibrate models; Scenario Manager (Scenario Development Window) to create, run, and manage scenarios; Cube Reports to add advanced, high-quality reporting and charting.

Cube Voyager offers a comprehensive library of programs that lets you model and analyze passenger transport systems containing any transportation mode. Cube Voyager uses a modular, script-based structure enabling you to use any modeling methodology, including standard four-step models, discrete-choice models, and activity-based models. You can also incorporate advanced methods, like junction-based capacity restraint for highway assignment and discrete-choice pathbuilding for multiroute transit assignment.

Cube Analyst is library of programs for estimating and optimizing trip tables from traffic counts and other survey data, estimates and updates the matrix containing base-year automobile, truck, and public transit trips.

Cube Avenue is an extension to Cube Voyager providing dynamic traffic assignment.

Cube Cluster adds functions that enable Cube Voyager models to run across multiple computer processors, those in one or multiple personal computers.

Cube Cargo is the library of programs for forecasting regional and long-distance commodity flow and truck demand. Cube Cargo forecasts commodity demand and vehicle flows using a commodity-based approach.

Cube Land is the library of programs for forecasting land use, based on the MUSSA procedure developed by Santiago del Chile University. Using mathematical models, Cube Land forecasts land use by simulating the real estate market under different economic conditions.