

Citilabs Consulting Services

Providing support for Citilabs software products

Citilabs, the world leader in software for transportation planning and simulation, provides consulting, technical support, and customer services to government agencies and consulting firms. Citilabs helps customers and partners discover and implement high-value Citilabs solutions that generate rapid, meaningful, and measurable results. With its partner network and support infrastructure, Citilabs helps clients successfully adopt, deploy, and use Citilabs solutions and technologies.

What does Citilabs offer?

A commitment to your success

Citilabs shares with its partners an unwavering commitment to provide great customer service. We strive to satisfy our customers, delivering on-time, within-budget, and effective assistance in the setup and application of our products.

Technology solutions that generate results

We work with you to understand your needs and to develop a comprehensive solution—and then help make sure that the solution generates results. You define the conditions of satisfaction for your project. We don't consider an

assignment complete until each of these conditions is met to your satisfaction.

The right services at the right time

We aren't looking to lock you into costly, ongoing commitments to on-site resources. Our goal is to complete the job to your satisfaction with the right level of service for your business and to transfer our knowledge to your team, helping to ensure your future success.

Comprehensive technology expertise

As the developer of the world's leading transportation modeling and simulation software, Citilabs has unique knowledge and expertise. We offer the right resources to help you optimize solutions for any stage of your transportation planning cycle, allowing you to gain more value from your investments.

Expertise from the source

Working with Citilabs gives you direct access to our technical expertise and resources. Our professionals and partners work closely with Citilabs product teams, providing unique access to the best experts in Citilabs technology. We're also skilled at integrating our products into mixed IT environments.

Citilabs, Inc.
312 Clay Street, Suite 180
Oakland, California 94607, USA

World Wide Web
www.citilabs.com

Copyright © 2006 Citilabs, Inc. All rights reserved.
Citilabs is a registered trademark of Citilabs, Inc. All other brand names and product names are trademarks, registered trademarks or trade names of their respective holders.

Many factors contribute to the results described. Citilabs does not guarantee results for all customers. Citilabs has carefully reviewed the accuracy of this document, but shall not be held responsible for any omissions or errors that may appear. Information in this document is subject to change without notice.

Services for agencies and consultants of all sizes

We provide a wide range of consulting and support services for every stage of planning, deployment, and management. All services can be tailored to fit the needs of any sized agency or consulting firm and to address specific technology and methodical elements.

Rapid, effective deployment of technology

With more than 25 years of expertise implementing and deploying technology, Citilabs provides proven best practices to help you minimize your risk, reduce project timelines, and deliver tangible results.

Technical solutions that work

Leveraging Citilabs' own best-practice models, Citilabs offers the framework for model development and application that our own product development groups use. We can train your staff on these practices to help ensure that your agency or consulting firm makes the best use of Citilabs technology.

What services does Citilabs provide?

Citilabs can assist with any aspect of the implementation, calibration, and application of our software products. Citilabs can help you set up a system, providing assistance with both planning and IT needs. And Citilabs can help you use the products as part of transportation and traffic studies.

Some example services:

Model conversion: Citilabs can convert your modeling and simulation systems to Cube from Citilabs' legacy products (Tranplan, TRIPS, and TP+), from independent executables (programmed in languages like Fortran, C, C++, and Java), or from competitor products. Citilabs can provide rapid and accurate translation of existing models to efficient applications of Cube Voyager scripts. Citilabs can also move your model from batch operation to the Cube Base working environment.

Public transport conversion: Citilabs can move existing public transport networks and modeling processes to the Cube Voyager PT environment from legacy products (TRIPS, TP+, Tranplan) or competitor systems.

Implementation of Cube Voyager's junction-constrained assignment: Citilabs can help you migrate to junction-constrained assignment. Innovative and effective, Cube Voyager's junction-constrained assignment process improves your assignment model's ability to evaluate corridor and sub-area-level policy and infrastructure alternatives. Citilabs can help you create a database of intersection infrastructure, prepare the data for use in Cube Voyager, and calibrate the assignment models.

Reducing model run times using Cube Cluster: Citilabs can help you configure your existing model for optimal use with Cube Cluster, leading to significant performance improvements when running your modeling and simulation system across multiple processors and personal computers.

Model audits: Citilabs can examine and improve your transportation models written in the Cube Voyager or TP+ scripting languages. By incorporating best-practice approaches and optimizing your scripts, Citilabs can improve your run times and help you create effective, efficient, and robust models.

Activity models: Citilabs can develop full activity models within the native Cube Voyager scripting language. Citilabs can work with you to implement this state-of-the-art approach for your agency.

Traffic microsimulation: Citilabs can support studies using Citilabs Cube Dynasim multimodal traffic microsimulation software. Citilabs can help you develop and calibrate microsimulations of public transit terminals, downtown traffic flows, suburban land-use change, freeway corridors, ramp and weaving sections, and any other transportation improvement or operation that you are considering.

Freight and commodity flow models: Citilabs can support studies implementing, calibrating, and applying Cube Cargo to estimate future-year commodity and truck flows, for both urban and long-distance scales.

Region-wide simulation and evacuation planning and analysis: Citilabs can support studies using Cube Avenue, a highly efficient and effective mesoscopic dynamic assignment system. Citilabs can help you implement, calibrate, and apply this innovative product to analyze region-wide traffic flows, to study special-event traffic, and to prepare evacuation plans associated with hurricanes and terrorist events.

Customized reporting and analysis: Citilabs can help develop an effective reporting system. Cube Reports is a Cube extension that creates high-quality reports and graphics you can use to analyze and communicate results to elected officials, management, and the general public. Citilabs can work with you to create reporting and charting templates that extract key differences from your model results. Well-designed templates enable you to highlight impacts of changes to transportation policy and infrastructure.

On-site training: Citilabs can create customized on-site training courses in our products.

Planning and modeling assistance: Citilabs can work as part of consulting teams to provide targeted expertise in the application and use of our software products.

What projects has Citilabs completed?

Los Angeles cargo model development

Citilabs helped a consortium of consulting firms develop a model for analyzing goods movement in the Los Angeles/Southern California region. The consortium developed the model with Cube Cargo, and used the model to analyze commodity flows within and beyond the L.A. region.

Los Angeles model conversion and integration

Citilabs helped the Los Angeles County Metropolitan Transportation Authority convert their UNIX-based Tranplan passenger travel demand model into a Windows-based Cube Voyager model. As part of the conversion, Citilabs created new road networks, combining attributes from the existing networks with true-shape networks. After converting the passenger model, Citilabs integrated the Cube Voyager model with a Cube Cargo model, creating a comprehensive model that included both passenger and freight traffic.

San Diego County microsimulation development

Citilabs helped the region develop a microsimulation model for traffic flow analysis in a San Diego County freeway corridor using Cube Dynasim software.

California high-speed rail transit network conversion

Citilabs helped a consultant project team analyze options for high-speed rail in the State of California. Using existing regional models, Citilabs converted public transport networks to Cube Voyager PT format for analysis.

Sonoma County network conflation

Citilabs helped Sonoma County, California, reconcile their travel modeling networks with available geographic data, which allowed them to use true-shape display for their schematic networks. Citilabs worked with the GIS projections and related the county's model networks to street centerline GIS files.

Santa Clara Valley Transportation Authority (San Jose, CA) model optimization and speed improvement

Citilabs helped the San Jose, California, transit operator and transportation planning authority optimize their model scripts and implement Cube Cluster to improve the run-time performance of their model set significantly.

Houston regional hurricane evacuation analysis model

Citilabs helped planners in the Houston region develop a regional-scale tool that can evaluate the effectiveness of hurricane evacuation traffic policies. Using Cube Avenue mesoscopic dynamic traffic assignment software, this effort entailed developing and modeling the hourly travel patterns for up to three days prior to the onset of a storm, and forecasting the traffic patterns resulting from the surge in travel demand during the evacuation window of a simulated category-5 landfall storm, such as Hurricane Rita of 2005.

Florida (FSUTMS) model conversions

Citilabs helped the Florida DOT and local jurisdictions migrate their models, scripts, and data to take maximum advantage of the new features of Cube Voyager while staying within the design parameters of the statewide FSUTMS modeling standard. This project involved model conversion, script-writing, implementation, and training throughout Florida, not only in smaller regions with relatively simple, “standard” models, but also in large regions with complex multimodal modeling issues.

Dorset County multimodal model development

Citilabs helped Dorset County, United Kingdom, develop a new model to replace their existing TRIPS/Saturn model. The new, Cube Voyager-based model satisfies the English Department for Transport (DfT) requirements for peak-hour spreading, as specified in *Variable Demand Modelling Advice (VaDMA)*. Citilabs developed the model structure and detailed scripting, and supervised the Dorset County Council during model calibration.

Netherlands network robustness scanner

Citilabs helped Grontmij, a leading Dutch consulting firm, create a “scanner,” a model that finds weak spots in large highway networks. The scanner makes an initial run to find potential weak links in the network, and then launches an automated series of runs to determine which links lead to congestion when blocked or when capacities are reduced, for reasons such as incidents or maintenance work.

Norway regional model

Citilabs helped institute a new model of Norway’s five regions to support NTP, Norway’s 2010-2019 transport investment program. Citilabs and SINTEF, the primary consultant, developed a Cube model that seamlessly integrated Cube Voyager, TRIPS, and external programs. Citilabs optimized scenarios and data management, making the models more efficient and easier to use. And Citilabs replaced existing TRIPS assignment models with more efficient Cube Voyager features.

Beijing Xi-Zhi-Men interchange microsimulation

Citilabs helped a Chinese consultant prepare a demand forecasting model and microsimulation analysis to study traffic management strategies during reconstruction of a critical interchange on the northwest corner of the Second Ring Road in Beijing. Citilabs used Cube Analyst to prepare an OD matrix, and used Cube Voyager for traffic assignment. The model’s highway network included junction information on stop-control, signal timing, and geometry. Citilabs exported the network directly from Cube Base to Cube Dynasim, simplifying the time and effort required to create the microsimulation network.

Further information

Please contact your regional Citilabs representative to discuss how Citilabs can help you implement, use, and apply Citilabs transportation planning and simulation products.

USA Pacific Coast:

Michael Clarke – mclarke@citilabs.com

USA Central:

Matthew Martimo – mmartimo@citilabs.com

USA Atlantic Coast:

Wade White – wwhite@citilabs.com

Latin America:

Vladimir Majano – vmajano@citilabs.com

UK/Northern Europe/Middle East/Australasia:

Tor Vorraa – tvorraa@citilabs.com

Southern Europe/Africa:

Alberto Brignone – abrignone@citilabs.com

Asia/Pacific:

Luke Cheng – lcheng@citilabs.com

About Citilabs

Citilabs develops, markets, and supports software products for a broad group of professionals involved in transportation planning, traffic engineering, GIS, and urban planning.

Citilabs' flagship software product, Cube, is a software suite, containing modules and extensions that form a complete travel forecasting system. Offering exceptional, easy-to-use capabilities, Cube supports comprehensive planning of transportation systems. Cube's modules provide different functions for different tasks. With Cube, you only need to acquire the modules needed to complete your tasks, reducing your costs.

Cube is the innovative and market-leading solution developed by Citilabs—the leader in transportation planning software solutions.