



SoCal Transportation Safety Predictive Modeling Platform

July 28, 2026

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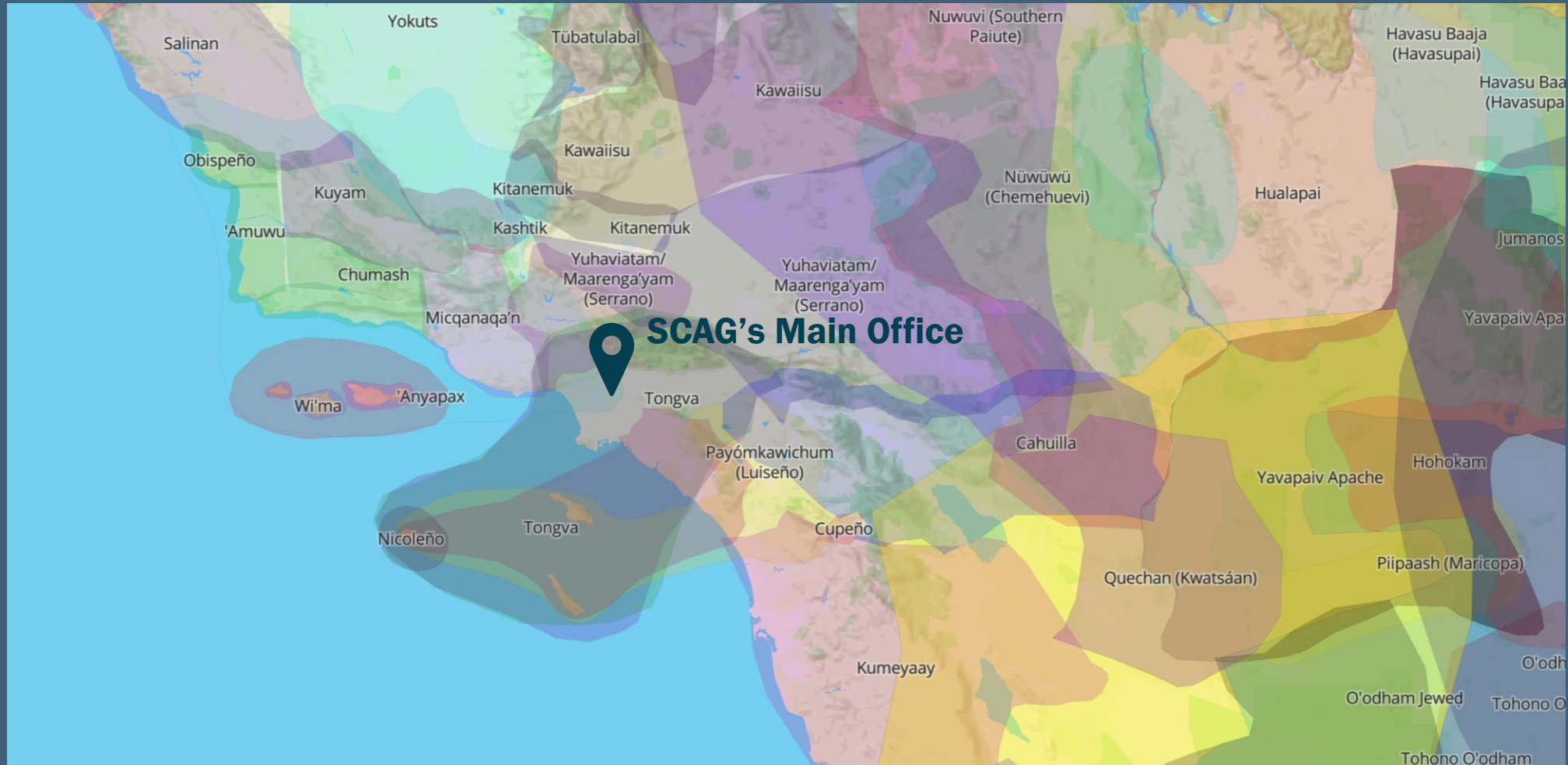


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Session Logistics

1. Meeting length: 1.5 hours.
2. This meeting is being recorded.
3. All participant lines will be muted.
4. At the end of the presentations, there will be time for Q&A.
5. If you have a question during the presentation, please type it into the chat.
6. We will log all questions & respond to them at the end of the presentation. You may also raise your hand to ask questions at that time.
7. A recording of this session & the PowerPoint slides will be made available on the SCAG website. We will send a link to everyone who has registered.

Land Acknowledgement



Previous Toolbox Tuesday Sessions

- Part 1: Toolbox Tuesday Predictive Modeling & Analysis Platform:
January 14, 2025
- Part 2: Toolbox Tuesday Predictive Modeling & Analysis Platform:
January 21 2025

We want to know...

1. What type of organization are you representing today?
2. Where are you joining from?
3. Is your organization interested in or currently using transportation safety tools for grant applications?
4. Which best describes your experience with the SoCal Transportation Safety Predictive Modeling Platform?

**Fill out the poll on
your screen!**

Agenda

- Overview
- The SoCal Transportation Safety Predictive Modeling Platform
- Demonstration
- Q&A

Overview

- SCAG collaborates with local agencies throughout the six-county region to coordinate multimodal transportation system investments, including safety.
- SCAG actively seeks opportunities to improve safety throughout the region, focusing on vulnerable road users.

Overview

- SCAG was awarded an OTS grant in 2024 to develop a web-based transportation safety analytical platform able to model & predict local traffic safety risks with the goal of reducing the number & severity of traffic collisions.
- SCAG has received subsequent OTS grant awards in 2025 & 2026 to continue this work.
- The web-based tool utilizes the Citian 'CRASH' traffic safety data platform to analyze, model, & predict traffic safety performance & current & future identify risks.

SoCal Transportation Safety Predictive Modeling Platform

Goals:

- Reduce the number & severity of collisions & collision-related fatalities & serious injuries.
- Generate recommendations for effective safety risk mitigation interventions.
- Assist local & regional planners in evaluating traffic safety performance.
- Support safety analyses at the roadway segment level.
- Facilitate the prioritization of locations where transportation safety investments are most needed.

SoCal Transportation Safety Predictive Modeling Platform

Comprehensive Safety Database

- Hosts profile pages for individual crash incidents
- Digitizes & refines crash data from various sources
- Performs advanced queries

Interactive Mapping

- View crash overlays on roadway network
- Automates collision diagramming process

Modeling & Analysis

- Automated network analysis to identify roadway segment & intersection safety performance anomalies
- Automated before-and-after studies

Automated Reporting

- Create customized dashboards & reports with user-defined queries
- Reports important safety information & results

Opportunities

- Incorporation of safety analysis in local land use planning decision-making process.
- Understand potential safety impacts of proposed development on specific communities & neighborhoods.
- Support jurisdictions in development of local safety plans & strategies.
- Conduct scenario planning to assess the safety impacts of proposed new development or redevelopment.

Opportunities

- Modeling of customized local safety planning scenarios.
- Generation of maps & charts to illustrate changes in projected safety performance.
- Comparison of safety expectations between current & future projected performance.
- Identify relationships between local safety investments & performance outcomes.

Demonstration



Citian

The Operating System for Infrastructure Performance Management

Transforming how state & local agencies plan, prioritize, and deliver transportation investments

July 2026



Agenda

Citian Intro

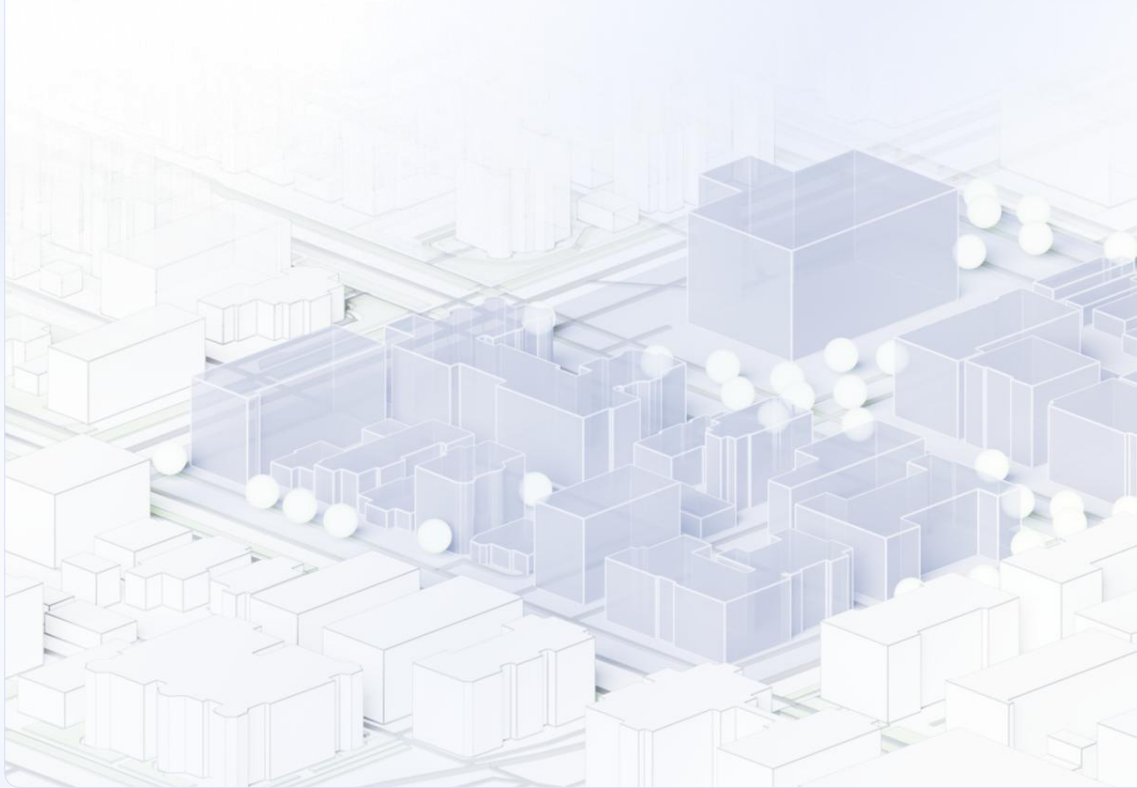
Workflow Slides

SCAG-Specific Demo

ATP, SS4A Workflows

Next Steps → New Travel Behavior Data for Advanced Predictive Modeling

Q&A



Who We Are

Citian is a team of transportation practitioners building the data and decision infrastructure agencies rely on.

We accelerate defensible decisions on projects, funding, safety, and infrastructure delivery.



Citian closes the gap

Fuse

We ingest **all** your data sources



Operationalize

A **single**, trusted operational dataset

The system of record for your agency

Decide

Our OS surfaces what matters, tells you **what** to fix & **how much** it will cost



CRASH

Fuses every kind of raw safety data into ground truth and operationalize it to surface every risk hotspot on your network in seconds

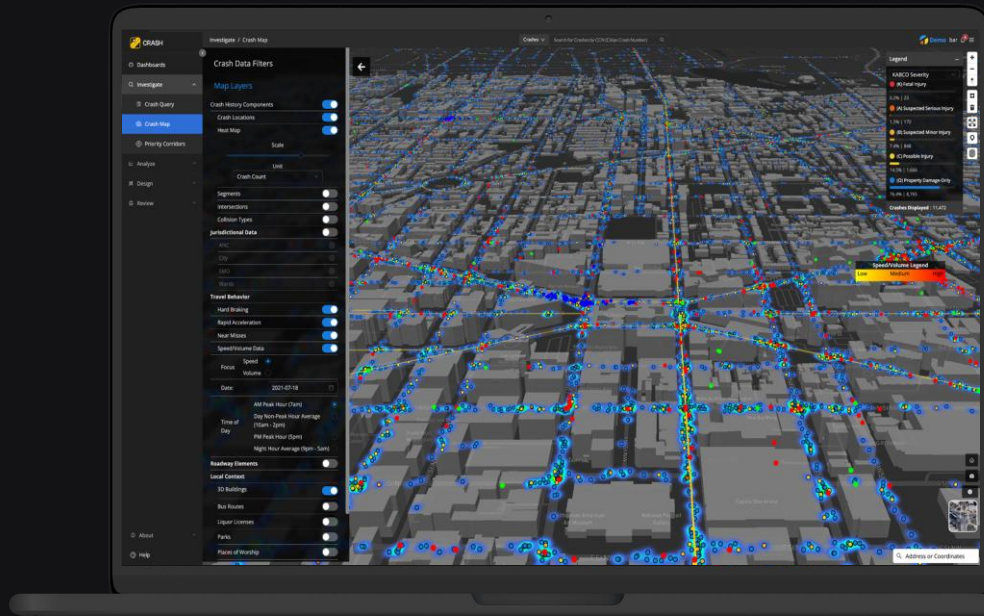
From

Scattered inaccurate data sources
& hours of manual review



To

A **single** reliable dataset powering
real time actionable intelligence
across the entire network





CRASH

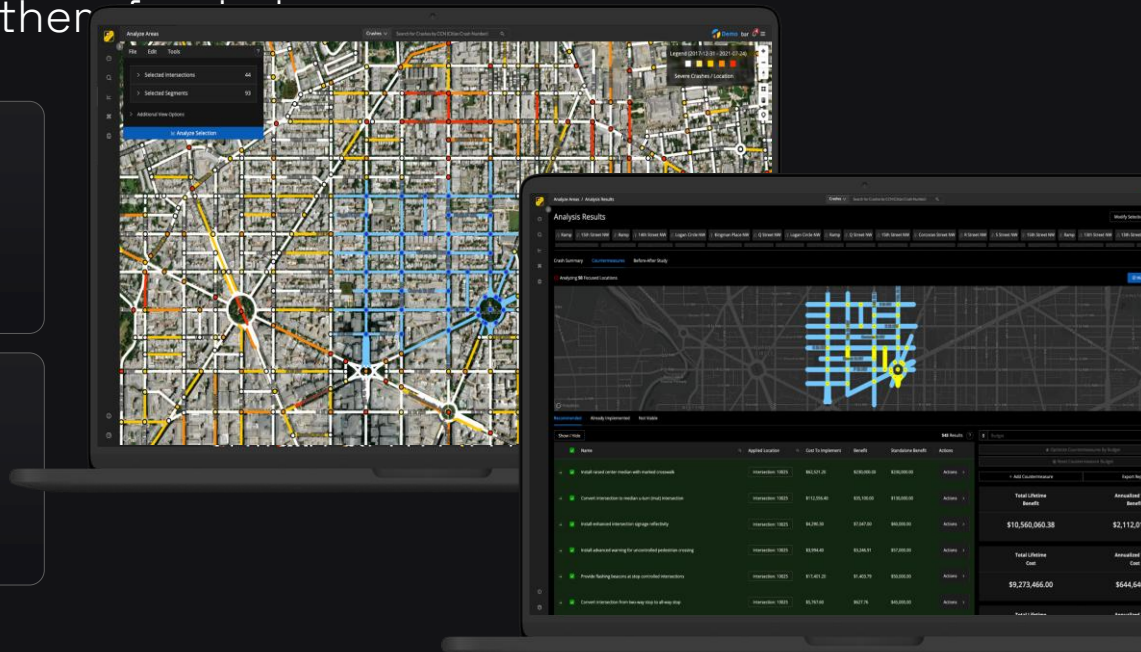
Then we provide ranked, costed countermeasures with the benefit/cost ratios to get them prioritized

From

Hours of reviewing safety manuals & budget spreadsheets

To

Automated, compliant and costed reporting & programming with cost benefit analysis for defensible decisions





CRASH

Outputs

Fund & Win Grants

- ❖ Submit grant applications backed by crash evidence and HIN ranking
- ❖ Rank and select regional safety projects for TIP
- ❖ Create grant-ready safety packages in a few clicks

Target & Act on Safety

- ❖ Stand up focused safety initiatives tied to real crash trends
- ❖ Screen the network for high-priority locations with B/C ratios
- ❖ Select countermeasures with defensible cost estimates

Defend & Report

- ❖ Prove to Council and residents why safety dollars are spent where they are
- ❖ Answer constituent complaints with crash history in 5 minutes
- ❖ Defend the safety budget in legislative testimony with ROI data

Track & Prove Impact

- ❖ Track before/after crash trends on invested corridors
- ❖ Produce HSIP, SHSP, and VRU reporting on time and protect funding
- ❖ Replace manual crash-record wrangling with one trusted source of truth

Primary Point of Contact



Dan Moore
Client Success Manager

Reach out for:

Day-to-day contact

Administration support

Training & Onboarding

Coordinate with Engineering and Development resources

Contact Information:

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Questions?

Contact:

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Tell us how we did!

Take a quick 2-minute survey to help us improve future Toolbox Tuesdays!



SCAN ME