Transportation Technology & Operational Improvements

Historically, transportation systems were operated and managed independently by each local city government or other agency, which resulted in a network of roads and transit that could not communicate well with one another or adapt to the ever-changing needs of its users. This is why we are working on cross-agency collaboration to ensure our regional transportation system operates as one.

We have established a regional task force that is helping local agencies share information and real-time data so that intelligent transportation systems across the region can work together more seamlessly. This can improve travel times and transportation reliability while managing traffic and reducing air pollution.

What does this look like in practice?

This program encourages our local government agencies to combine tools, resources, and solutions to improve system performance. For example:

- Investing in technology to integrate our region's major highways into one managed network.
- Helping technology providers and transit operators share information.
- Coordinating between agencies to make our transit as efficient and reliable as possible.
- Working with local agencies to prioritize policies and processes that support mutual data sharing within our transportation system.

Coordination like this allows for agencies to strategize as a team to improve people's experience moving throughout the region by communally pooling relevant data. The result is a better end-to-end experience for the user, regardless of which agency regulates the area they are traveling through.

I-15 Case Study

Five local agencies collaborated to get a pilot project on Interstate 15 up and running where transit, local roadways, and the freeway work as a unified system across jurisdictional boundaries. Because of interagency data sharing, traffic signals and ramp meters can now adjust automatically based on real-time traffic conditions to minimize back-ups on local roads and better manage traffic flow around major freeway accidents.

Policy and Program Connections

Digital Infrastructure · Fix It First · Pricing Strategies · TDM · Vision Zero
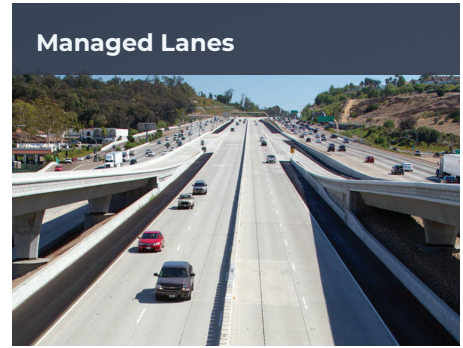
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What has SANDAG been working on and what are we considering next?

- Creating a seamless regional network of managed lanes.

- Planning and operating Smart Systems that ensure safety and efficiency at numerous intersections.

- Developing a Regional Border Management System that will serve as the transportation tool that will orchestrate the management of cross-border traffic over all existing and planned Port of Entries. It will provide operational strategies to reduce wait times, better manage traffic incidents, improve traveler information access, and more.

- Expanding smart stoplight systems so our Rapid bus routes can speed up trips by getting green light priority at intersections.

- Future activities include establishing a Transportation Systems Management and Operations Tasks Force. The Task Force will serve as the regional body that will provide guidance in the development of institutional, operational, and technical strategies and actions that advance the implementation of innovative transportation projects that support our Regional Plan.

Learn more

Visit **SANDAG.org/transportationtechnology** for more information.

Managed Lanes

Smart Intersections

Regional Border Management System (RBMS)

Smart Stoplights

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