Use Data. Target Investments. Save Lives.

Are you making the best transportation investments? With Data-Driven Safety Analysis, you can.

DDSA is the application of the latest software tools and methods for analyzing crash and roadway data. The tools quantify the expected safety impact of each decision in the project development process, so you can make more informed decisions. This lets you optimize investments. The result is fewer serious and fatal crashes.
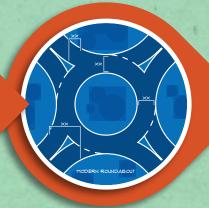
Planning

DDSA predictive and systemic tools can be applied early in the process, to help identify which roadways aren't performing as they should, determine the scope and need of potential projects, and prioritize them.

Alternatives Analysis

DDSA tools can predict the number and severity of crashes for multiple design options at once, and then compare them side-by-side.

Design

DDSA can be used to determine optimal design criteria, considering both safety and cost. This can include evaluating design exceptions or incorporating performance-based practical design.

Construction, Operations & Maintenance

Now that your agency has confidence in their investment decision, the project can be built.

After construction, DDSA tools can be used to help monitor how the project is operating, comparing safety performance to what was predicted and refining the tools for next time. The tools can then be used to identify future maintenance needs.

More Informed Decision Making • Better Targeted Investments • Fewer Fatalitie Serious Injurie

For more information visit
www.fhwa.dot.gov/innovation/everydaycounts/edc-3/ddsa.cfm

U.S. Department of Transportation
Federal Highway Administration