

About the Software

Collection, analysis and improvement of safety data is identified as an eligible project within the definition of a highway safety improvement program under 23 U.S.C. 148(a)(4)(B)(xiv).

Safety Analyst is a tool to help implement safety improvements and agencies can use their HSIP funds to license it.

- Helps with maximizing HSIP safety benefits and cost-effectiveness.
- Assists with identifying, prioritizing, and evaluating site-specific and systemic countermeasure improvement projects.
- Provides significant time savings by using software algorithms to automate network screening and complex calculations.
- Computerized analytical tools that incorporate safety management techniques from the AASHTO Highway Safety Manual.
- Standard safety database structure.
- Does not require statistical expertise.

Software Enhancements

Recently Added:

- Systemic Site Selection
- Safety Performance Report
- Modified LOSS
- MIRE/MMUCC Data Definitions
- Agency-Defined SPF Functional Forms

Analytical Tools Overview

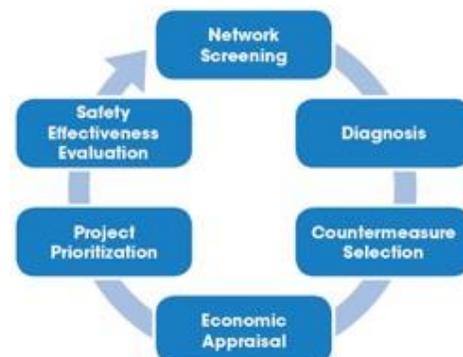
The **Network Screening Tool** is used to review the roadway network and identify and prioritize those sites where safety improvements are needed.

The **Diagnosis and Countermeasure Selection Tool** is used to analyze the type of safety problems at specific sites and help users select effective countermeasures to address those problems using basic collision diagramming and significant accident patterns, and systematic countermeasure selection through a series of site-specific questions.

The **Economic Appraisal and Priority Ranking Tool** is used to appraise the costs of countermeasures and possible alternatives for specific sites. It also prioritizes sites, countermeasures, and alternative improvements according to the level of safety risk posed by identified problems.

The **Countermeasure Evaluation Tool** is used for the before/after evaluation to assess the effectiveness of implemented safety improvements and provides valuable statistical feedback to help meet reporting requirements and plan for the future.

The **Systemic Site Selection Module** is used to identify the most appropriate sites from implementation of a selected countermeasure. The module incorporates network screening procedures to identify sites with crash patterns that can be remedied by the countermeasure selected for implementation and then economic analysis procedures are used to identify the most cost effective locations to implement the countermeasure given a specified budget.



Licensing and Service Units

Single Workstation Option

This license allows use of the software on a single personal computer. Use of the software is restricted to one user at a time.

Annual Fee: **\$21,200**



Site License

This license allows for use of the software on an unlimited number of workstations within the agency, consultants employed by the agency, and cities and counties within the licensing agency's jurisdiction.

Annual Fee: **\$37,200**

More Information:

AASHTOWare Safety Analyst Web Page:

www.aashtoware.org/products/safety/safety-overview

Data Requirements

Crash Data including location, date, type, severity, and vehicle maneuvers.

Segment, Intersection, and Ramp Data is consistent with the FHWA Model Inventory of Roadway Elements (MIRE) Fundamental Data Elements (FDE), including location, site classification, and AADT information.

- Safety Analyst requires a linked database of roadway, traffic volume, and crash data.
- Only a subset of the road network and minimal data is required to get started.
- A data management tool is included to help users import and manage their data.
- Technical assistance is available to help in preparing and importing necessary data.

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