

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

In Development:

- Agency-Defined SPF Functional Forms
- Improved Crash Diagram Tool

Future Initiatives:

- New SPFs for roundabouts, 6+ lanes and one way arterials, and missing HSM site types
- Freeway and Ramp Diagnostics
- Software Implementation Guide for Users

Analytical Tools Overview

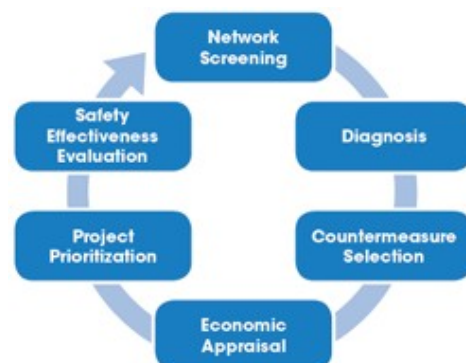
The **Network Screening Tool** is used to review the roadway network and identify and prioritize those sites where safety improvements are needed.

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: **\$20,600**

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: **\$36,000**

Agency Sponsored License

A member agency who is a licensee of the AASHTOWare Safety Analyst site license may purchase on behalf of consulting engineering firms or a local agencies performing safety analysis supporting the member agency goals to improve safety. The member agency licensee may purchase the following AASHTOWare Safety Analyst client software bundles for sharing.

Annual Fee: 5 Copies - \$2,500 10 copies - \$4,500

Educational License

Educational institutions within the jurisdictions of our AASHTO Member Departments and Associate Members can use a special version of AASHTOWare Safety Analyst for teaching and training in the classroom. This option is not available for individuals.

Annual Fee: **No Charge**

Free Product Evaluation

AASHTO member agencies may request to install and evaluate AASHTOWare Safety Analyst for a period of 120 days without licensing fees.

International License Options

AASHTOWare Safety Analyst licenses are available to agencies in countries with Associate-International membership in AASHTO.

Service Units

Service Units are optional special fixed-fee units of contractor-provided service offered to licensees for consultation and support to assist in implementation or customization of the software.



Services provided may include:

- Preparing and importing the required roadway inventory, crash report, and traffic volume data
- Specialized training in the use of the software
- Agency-specific modifications or customized reports and data exporting
- Agency-specific enhancements

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.

More Information:

AASHTOWare Safety Analyst Web Page:
www.aashtoware.org/products/safety/safety-overview

Contact:

Vicki Schofield
Project Manager
vschofield@ashto.org
(202) 624-3640