SSAVI demonstrates the art of the possible, employing a thin-client viewer that provides a highly responsive user interface. To date, a prototype has been developed to visualize launch data (collision avoidance) with key features such as satellite catalog propagation, sensor coverage, airspace closures, and suborbital awareness. This prototype is now being matured to address threat analysis.

SSAVI is data agnostic and can connect to various data sources for satellite catalog and sensor data. It is configured to run simultaneously against three different data sources. Using streaming data sources and indications and warnings (I&W) information allows for near-real-time data analysis.
Maneuver threat analysis can be very time consuming, so providing the business logic in a web service helps the UI's utility and responsiveness. SSAVI allows a user to define a set of high-interest satellites and can trigger off events based on the satellite list. Using maneuver capabilities such as Inclination match, Right Ascension, Hohmann transfer, and combo and drift, SSAVI can calculate the Delta V required to reach any satellite of interest, and the analysis runs are user configurable.

Additionally, the system permits users to export tabular data runs to a file—providing flexibility for further data analysis—and its user timeline delivers detailed, real-time viewing and scenario playback. Finally, using the advanced filter features, SSAVI can help users and decision makers quickly locate satellites of interest and assess potential opportunities and threats.

Sensor schedules can be produced by running the Pasched functionality; this can be done for single sensors or groups of sensors. This information can then be exported for use in other scheduling applications.