

5.2.1 Developing a “One-Stop” ArcIMS Application for High Accident Location (HAL) Management

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In 2004, the DOT became aware that their process of tracking, managing and reporting on HAL (High Accident Locations) was flawed. A mostly manual process composed of several desktop software systems connected perilously together, the system did a poor job of managing them, from identification through to resolving their root cause. So, the Traffic Safety Section (TSS) assembled a team to identify gaps and define a proposed solution. The result: CRAS, or the Crash Reporting and Analysis System.

CRAS is a web-based, ArcIMS application that allows TSS team members and its associated Safety Steering Committee, to identify, track, report on and manage HALs. The TSS chose to leverage Geocortex IMF, an application framework already in use at the City, to streamline ArcIMS development. The key symbolization reporting, selection, printing and database connectivity components were already included; they simply needed to configure them, and add some new modules to track HAL “issues” as they progressed through the application work-flow. The result is a “one-stop” application that allows the committee to manage issues as they are identified, all the way to the project stage where the root cause is identified and acted upon.

The associated presentation will focus on the unique work-flow CDOT uses to manage HALs, and the underlying ArcIMS application that supports it. Challenges, ideas and mistakes will be discussed.