

Technology in Rural Transportation



A recent study documented more than eighty proven, cost-effective, “low-tech” solutions to rural transportation needs, most developed or implemented by local transportation professionals. One of these solutions is outlined below:

Learn all about the simple solutions on the Internet at <http://inform.enterprise.prog.org>

The simple solutions report is available from Hau To at (503) 892-2533, or email: to@crc-corp.com

Collision Countermeasure System

Overall goal:

To engineer and install a system that would reduce the number of collisions at unsignalized intersections, which according to the study make up 27% of intersection crashes.

Technical approach:

A two-way stop sign-controlled intersection (Aden Road and Fleetwood Drive) was outfitted with the following:

- Six speed/presence detection zones on Aden Road (three in each direction).
- Four active warning signs on Aden Road (two in each direction).
- Four passage/presence detection zones on Fleetwood Road (two in each direction).
- Two dynamic warning signs on Fleetwood Drive (one behind each existing stop sign) that warn of approaching traffic in either direction from Aden.

This intersection was selected due to its high accident rate, low volume, low visual clutter.

Current status:

Project was undertaken in 1998, equipment is still in place.

Location / geographic scope:

City of Aden, Virginia.

Agencies involved:

Several private companies provided the equipment and consultants were hired to undertake the engineering and evaluation aspects.

Cost information:

The cost for the hardware was approximately \$16,000. The signs cost \$12,000. Due to being the first implementation of its kind, installation was



Technology in Rural Transportation



A recent study documented more than eighty proven, cost-effective, “low-tech” solutions to rural transportation needs, most developed or implemented by local transportation professionals. One of these solutions is outlined below:

\$52,000.

Key contacts:

George Beronio, Raytheon Systems Company, 703.560.5000, ext. 4263.

Have goals been achieved?

The system is designed to reduce the frequency and severity of accidents at unsignalized intersections. The full impact of the system has not been fully evaluated.

Solution timeline:

The system has been operational since April 1998. The evaluation was conducted through Summer 1998. The final report was issued December 1998.

