Advance Warning for End-of-Green System (AWEGS)

Srinivasa Sunkari, P.E.
Texas Transportation Institute





Transportation Operations Group

AWEGS Objectives

- Provide advance warning (≈ 6 sec) for end of green
- Improve dilemma zone protection
- Reduce red light running
- Improve safety

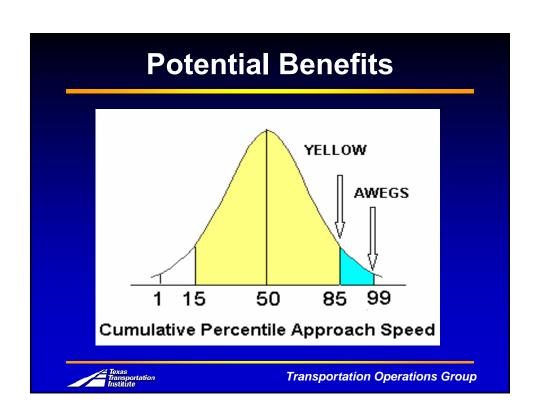


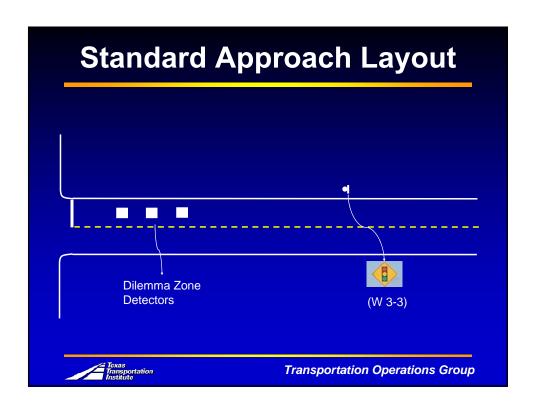


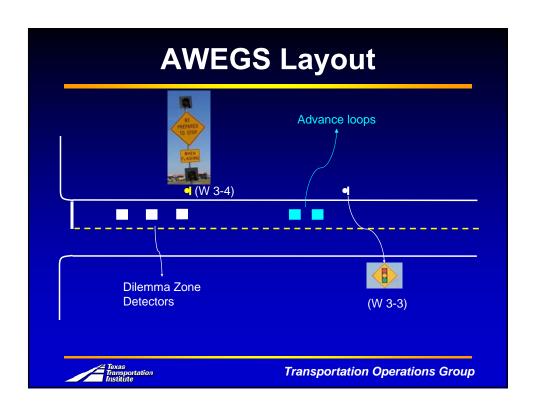
TxDOT Projects

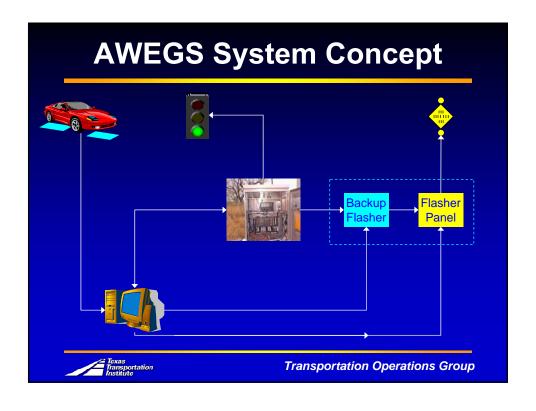
- 0-4260 (2001 2003)
 - Develop a prototype
 - Implement in two sites
- 0-5113 (2004 2006)
 - Improve algorithm
 - Implement at new site
 - Implement improvements at previous sites
- 5-5113 (2007-2008)
 - Implement at four sites

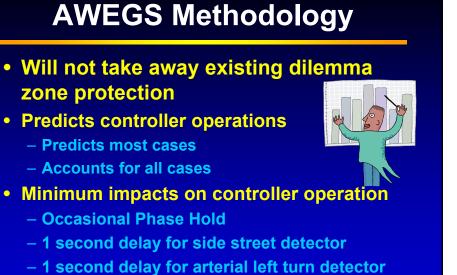




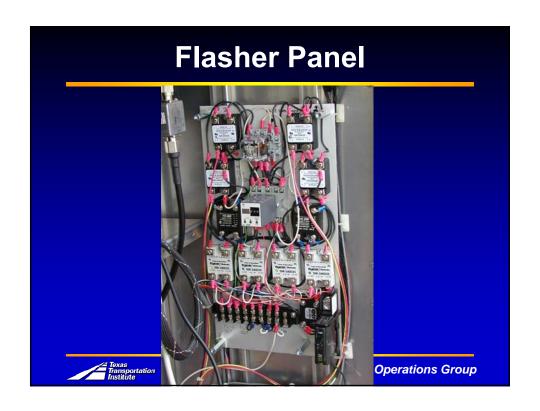


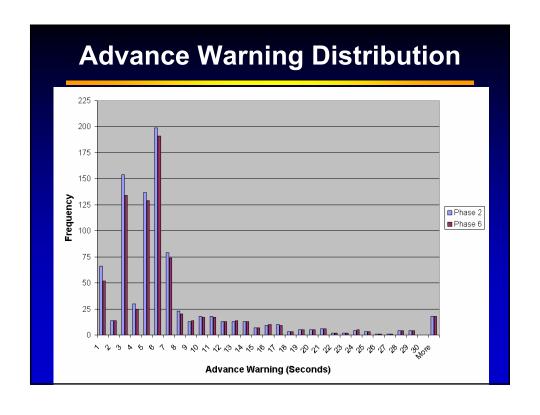




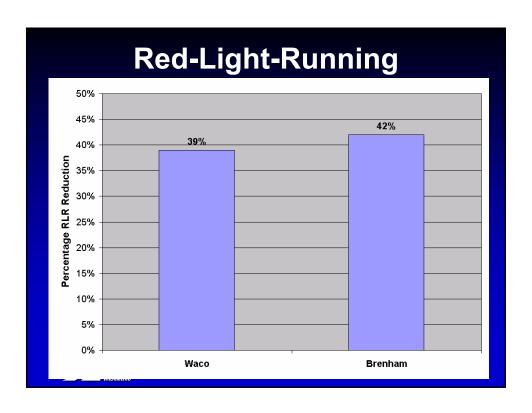












Algorithm Improvements

- Detector failures
 - Advance detectors
 - Dilemma zone detectors
- Phasing sequences
 - All types of left-turns
- Standardized implementation
 - Single lane or two lane
- Failure notification
 - Phone line to communicate











