ENHANCING RED LIGHT COMPLIANCE WITH TECHNOLOGY

Road School 2015
Today's Agenda

• The Problem
• The Solution
• A Strategy
The Problem:
Right Angle Collisions at Signalized Intersections

- Maim and Kill
- Increase Agency Operating Costs
- Increase Motorist Costs
- Create Negative Intangibles
Solution:

• Improve Red Light Compliance
Possible Solution Strategies

• Engineering
• Enforcement
• Education
Current Practice Solutions

• Use Crash Statistics to Diagnose
• Apply Countermeasures Based on Engineering Judgment
• And/Or Apply Periodic Enforcement
Enhanced Solution

• Use Crash Statistics to Identify Problem Intersections
• Use Crash Statistics to Identify Right Angle Patterns
• Record Red Light Running Activity
• Diagnose Using RLR Event Data
• Implement Countermeasures
• Re-measure, Try Something Else, and Repeat as Needed
• And/or, Use RLR Data to Focus Enforcement
Demonstration of an Enhanced RLR Tool
Example Diagnostic Approach

Depth of Red

One Second Vehicle Bins
Strategy

• Seek LTAP Assistance
  – Routinely Scan for Problem Intersections
  – Develop Crash Report

• If Solution is Obvious, Then Apply Countermeasures
  – Watch Crash History

• If Solution is Evasive, Then use Technology to Drill Deeper
  – Apply Countermeasures and Re-measure RLR's
  – Repeat as needed Until All Countermeasures are Exhausted

• If No Solution, Then Apply Enforcement
  – Use Technology to Focus Enforcement Resources
Benefits

• Rapidly Assesses Countermeasures
• Systematically Reaches the Most Affordable Solution
• Reduces Unnecessary Operational and Societal Costs
• Optimizes Targeted Enforcement (If Needed)
• Does Not Require Legislation
• Results Can be Validated in Weeks or Months, not Years
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