


# The Next Highway Safety Initiatives Systemic Safety Project Selection

## Hot Spot vs System-Based

from FHWA Pilot Study  
Kickoff Webinar June 4, 2012

# Hot Spot vs System-Based

- *Traditional (high crash )*
  - Hot spot safety planning on locations with a history of high crash frequency
- *System-based safety planning*
  - supplements the hot spot
  - Identifies system problem
  - Low-cost strategies to address the underlying contributing circumstances
  - Identify - prioritize locations based on high risk features



# Systems based (“systemic” ) safety improvement

An improvement that is widely implemented based on high-risk roadway features that are correlated with particular severe crash types.

# Identify Target Crash Types and Risk Factors

- Analyze system-wide crash data
- Define crash characteristics at the system level



- Identify potential risk factors from characteristics
  - Roadway and intersection features
  - Traffic volume
  - Other i.e. transit stops, land use

# Perform Systemic Program Evaluation

- Structured approach for tracking changes in crashes and defining benefits
  - Illustrations for presentations to elected/citizens
  - Economic for B/C calculations
- Program evaluation; not location evaluations
- Guidance for interpreting results
  - Identify if adjustments are needed