

All Roads Transportation Safety

Informing the Region 1 Systemic Safety Application Process

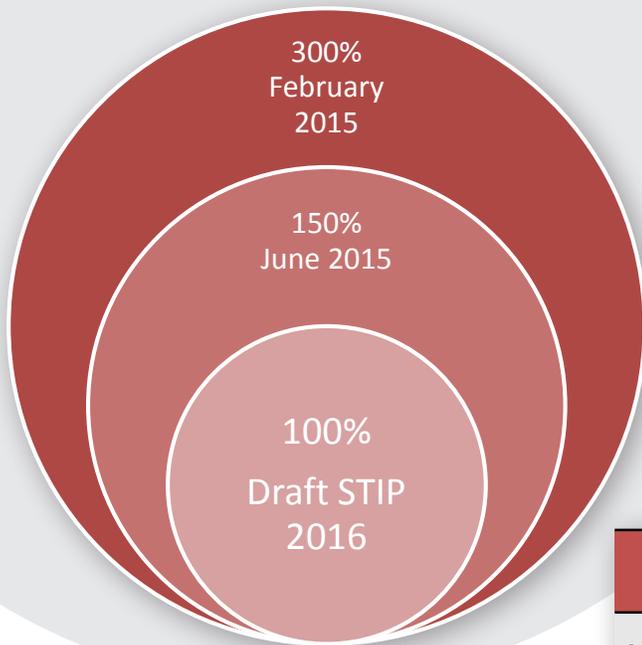
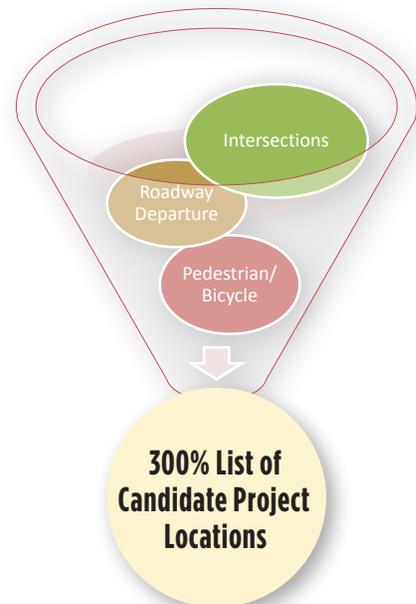
Objective: Develop the 2017 to 2021 STIP List
Focus: Fatal and Injury A Crashes

Consultant Support of Application Process



What is the Purpose of the 300% List?

- Data-informed list of frequent and severe crash locations where systemic countermeasures could be applied
- 300% list = 3x100% STIP
- Reference to projects funded in the 2017-2021 STIP



Systemic vs. Hot Spot Network Screening

ARTS Element	Systemic	Hot Spot
Safety Projects	Many low-cost countermeasures at many sites = 1 project	1 site = 1 project
Network Screening	<ol style="list-style-type: none"> 1. Rank segments or intersections (sites) 2. Combine adjacent priority sites into larger projects 3. Rank projects 	<ol style="list-style-type: none"> 1. Rank segments or intersections (sites)



Network Screening Methodology

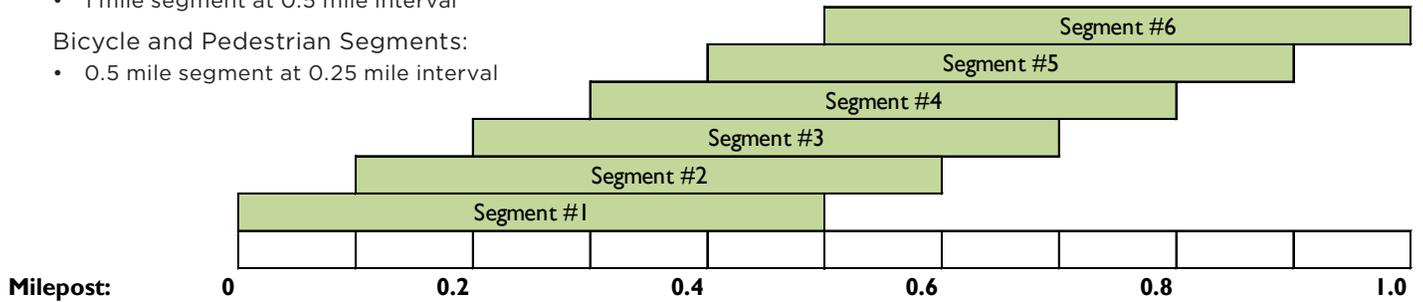
Sliding Window

Roadway Departure Segments:

- 1 mile segment at 0.5 mile interval

Bicycle and Pedestrian Segments:

- 0.5 mile segment at 0.25 mile interval



Performance Measure

- Equivalent Property Damage Only (EPDO) Average Crash Frequency
 - One of 13 performance measures from the HSM
 - Selected to reflect the severity of reported crashes
- Applied independently to intersections and segments

$$EPDO_Index = W_K K + W_A A + W_B B + W_C C + P$$

- Weighting Factors (consistent with SPIS):
 - * 100 for Fatal or Injury A
 - * 10 for Injury B or C
 - * 1 for PDO

Application Process Support

Crash data for priority project locations available online at:

www.kittelson.com/ftp

Login: SystemicSafety

Password: Region1

Hands-on workshops at Region 1 HQ and via web-enabled meeting

February 26

9:30 to 11:30 a.m.

March 5

9:30 to 11:30 a.m.

Contact Information



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