

Bicycle Boulevards as Public Health Strategy

- Traffic Safety as Public Health
- Trends
- Bicycle Boulevards as a Solution
- Partnerships & Cross-Pollination

SOME HEALTH STATS

Percent of American adults age 20 years and older who are overweight or obese: **66**

Pounds a new bicycle commuter can expect to lose during the first year of bicycle commuting: **13**

Percentage of heart disease/ stroke among leading causes of adult American deaths: **33%**

Hours of bike riding per week necessary to cut the risk of heart disease and stroke in half: **3**

Minutes per day Americans spend on a daily car commute (2004 average): **49**

NATIONAL PERSPECTIVE

Number of passenger kilometres and number of deceased cyclists and car occupants 1980, 2001, 2005

	1980	2001	2005
Passenger km by bicycles	9.9 billion	13.1 billion	14.4 billion
Passenger km by car	107.1 billion	141.6 billion	148.8 billion
No. of deceased cyclists	426	195	181
No. of deceased car occupants	910	477	371

Source: Ministry of Transport, Public Works, and Water Management (The Netherlands)

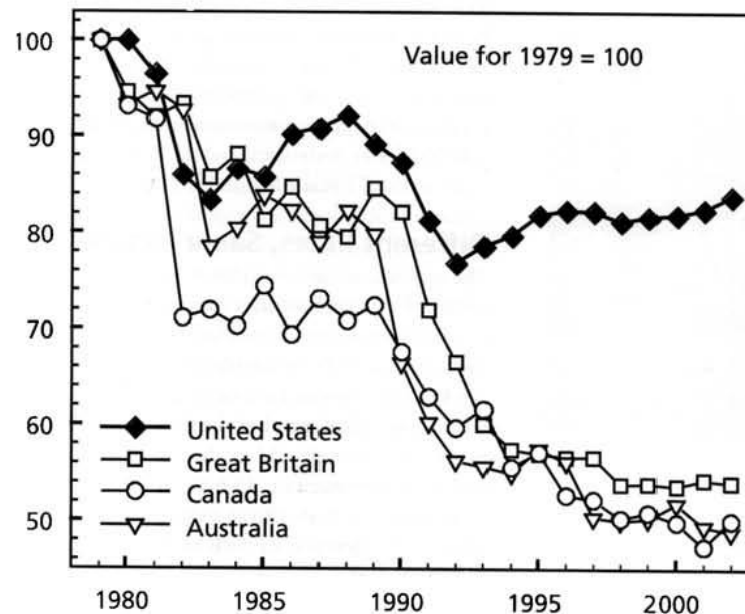
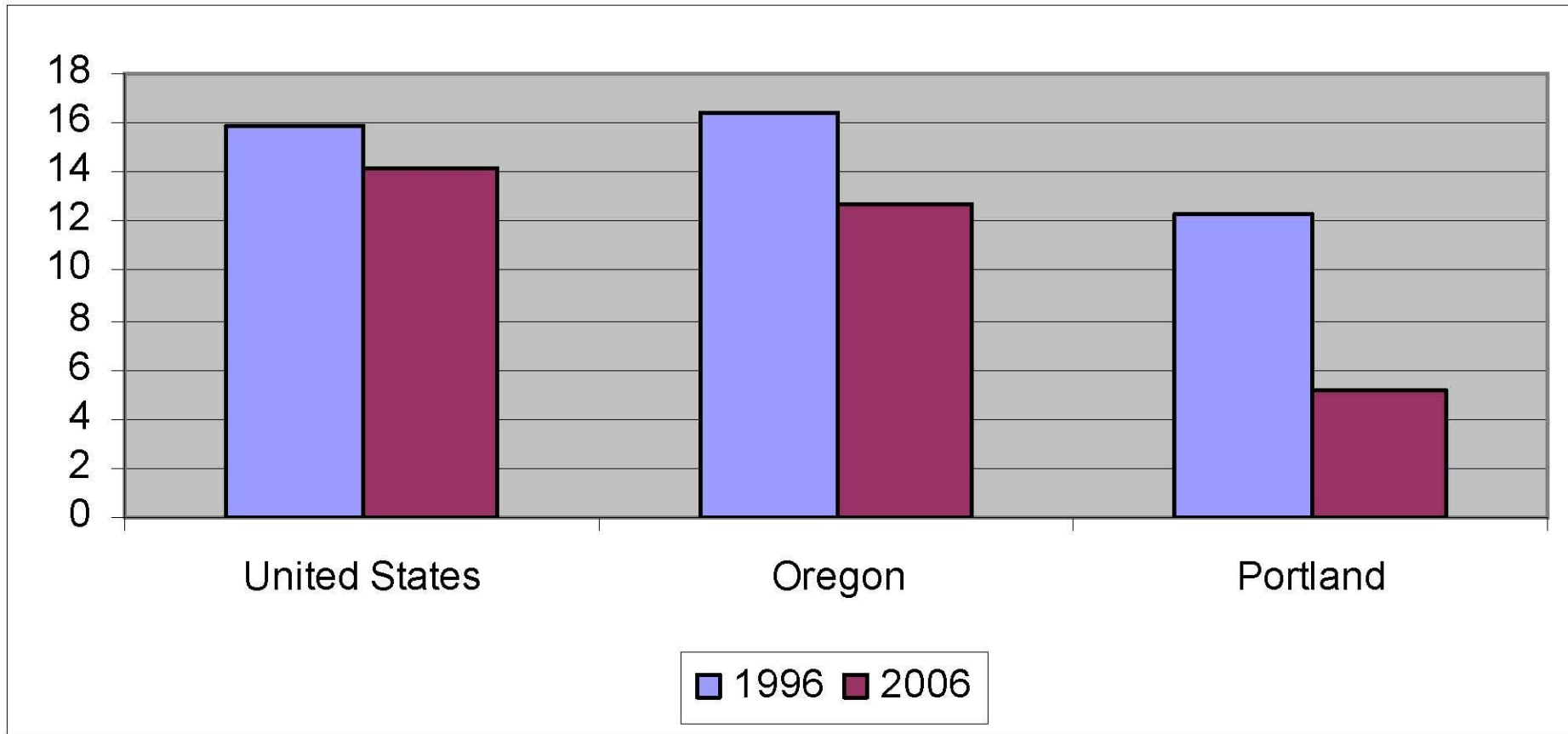


FIGURE 1 Traffic fatalities per year in the United States and in three comparison countries relative to the number in 1979 (1, p. 382).

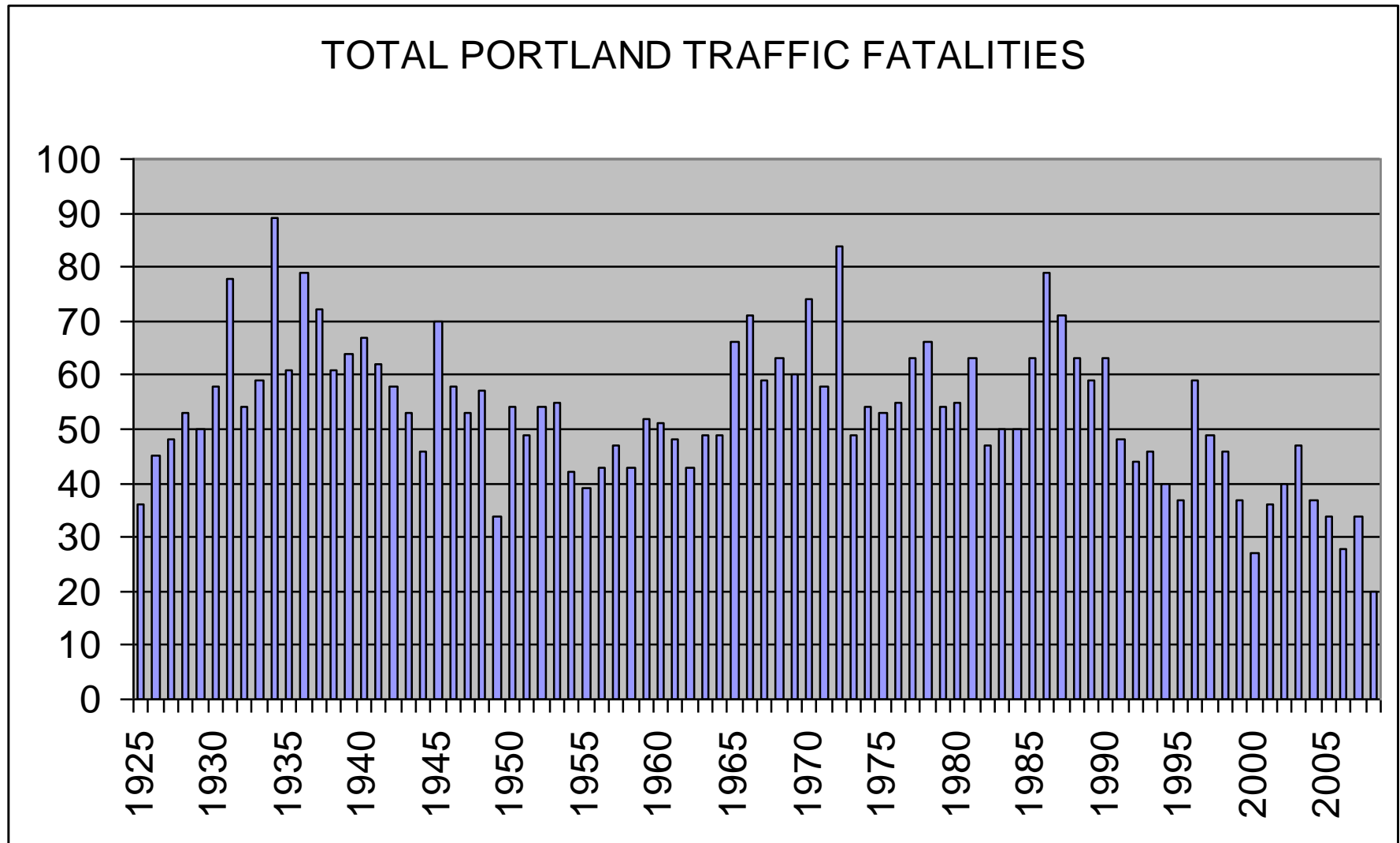
TRAFFIC FATALITIES PER 100,000 RESIDENTS

1996 and 2006

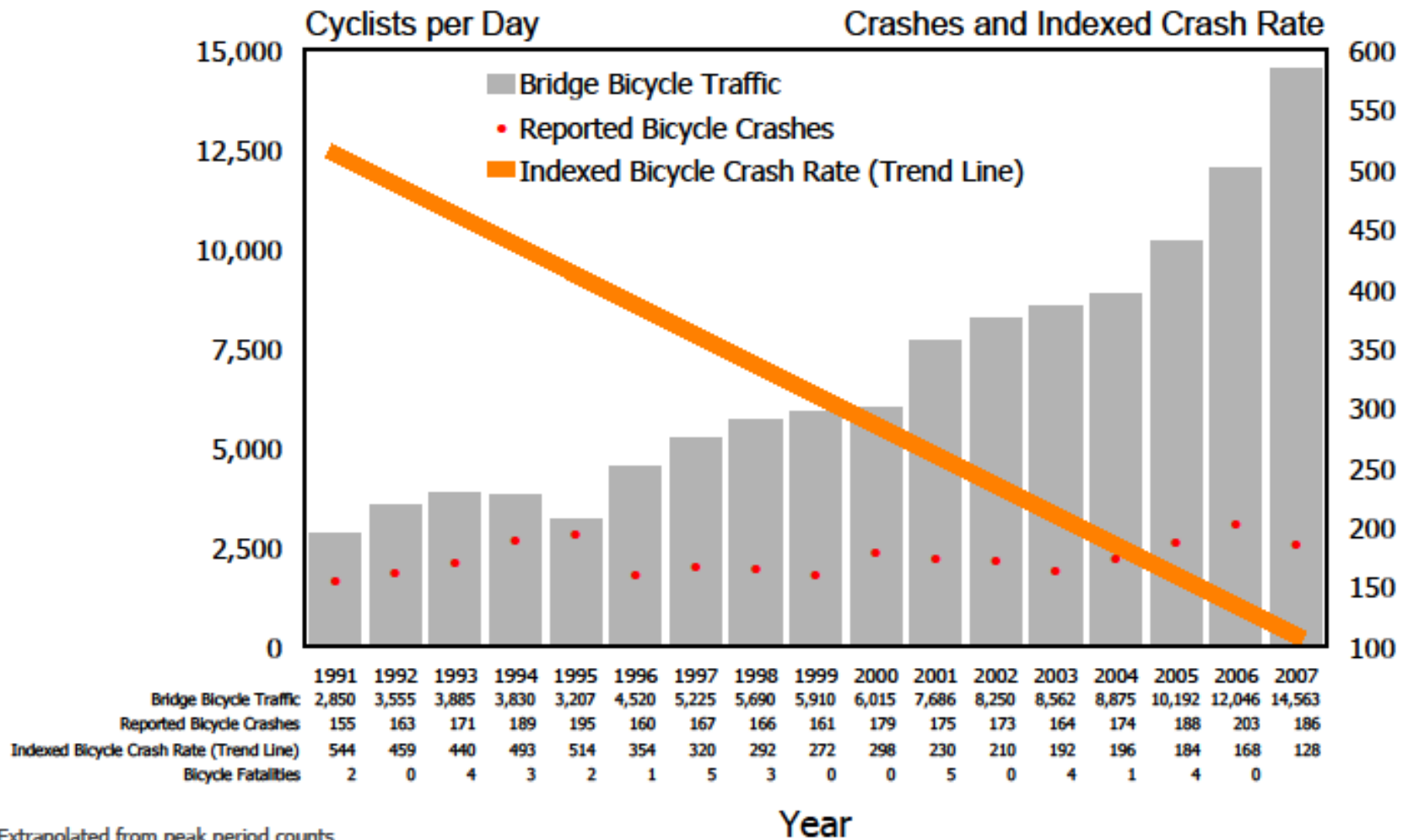


HISTORIC SAFETY TRENDS

Prevention vs. Survivability?



Combined Bicycle Traffic over Four Main Portland Bicycle Bridges Juxtaposed with Bicycle Crashes

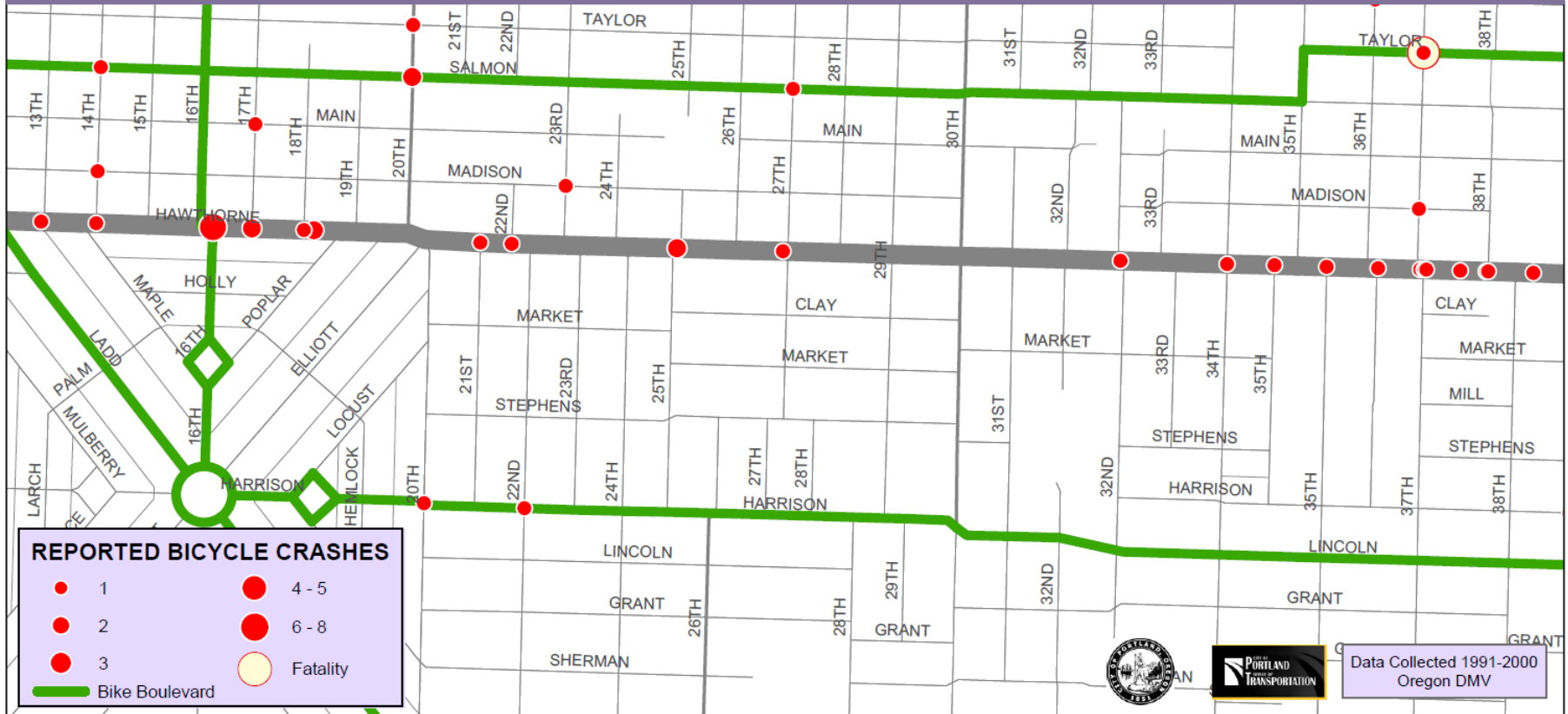


Extrapolated from peak period counts

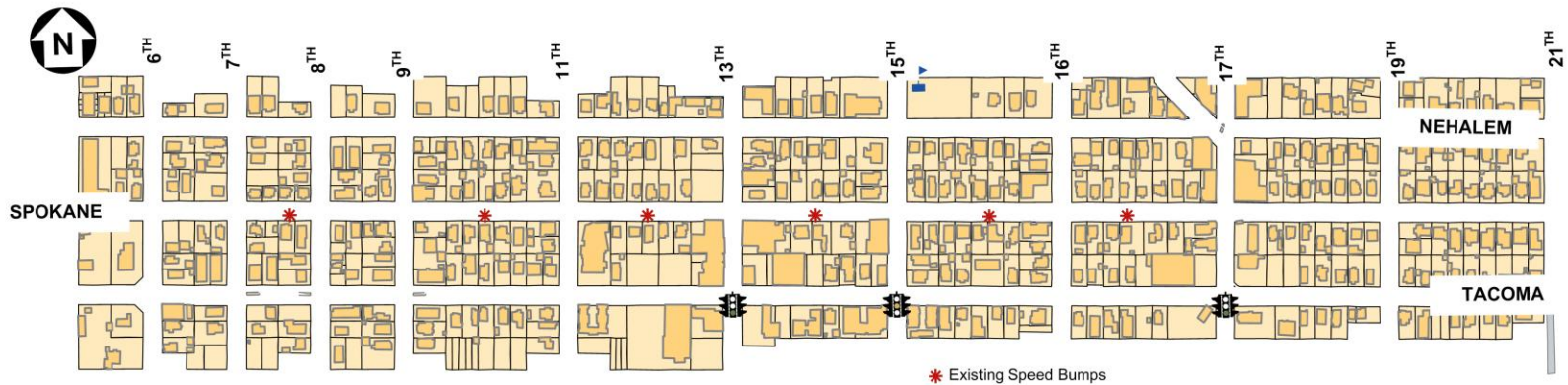
"Crash Rate" represents an indexing of annual reported crashes to daily bicycle trips across the four main bicycle bridges.

COMPARING BOULEVARD TO NON

TEN YEAR BICYCLE CRASH SUMMARY between SE 12th Ave & SE 39th Ave



OPPORTUNITY TO PARTNER?



Bike Boulevard Crossing Improvements and Medium Diversion

- 20-mph business speed zone on 13th and 17th
- Marked and signed crossings with Refuge Islands at 13th and 17th
- Pinch point east of 7th
- Semi-diverter west of 13th with median barrier in 13th
- Semi-diverter west of 16th
- Turn STOP signs at 9th, 11th and 15th with added speed bumps

