

ODOT TRAFFIC-ROADWAY & NATIONAL RESEARCH



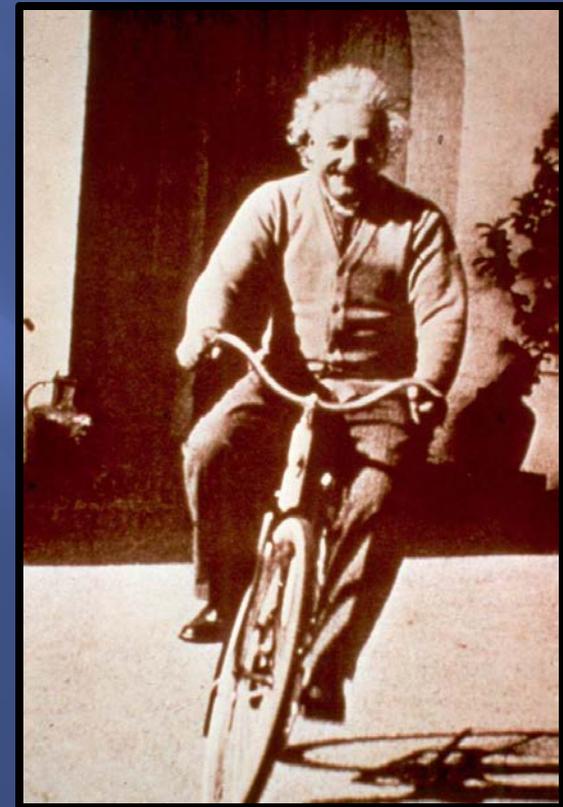
SPR 733- Developing Safety Performance Measures for Roundabout Applications in the State of Oregon

- Evaluate safety of single-lane four-leg roundabouts
- Conforms to Highway Safety Manual methodologies
- Provides process for crash prediction



SPR 474- Operational Guidance for Bicycle-Specific Traffic

- ▣ Objectives
 - Develop engineering guidelines for the need for and design of bicycle-specific traffic signals; and
 - Develop operational guidelines for timing and phasing of bicycle-specific traffic signals or modifications that can be made to existing signals to better accommodate bicycles.
- ▣ Expected Results
 - Improve safety for bicyclists
 - Consistent design and application of bike signals
 - Increase the use of bicycles



SPR 754- Pedestrian & Bicycle Specific Data Collection Methods in Oregon

- ▣ Objectives of Research
 - Evaluation of Bike/Ped collections methods, data retrieval, storage, and analysis
 - Focus on bike/ped trips:
 - ▣ On or near roadways
 - ▣ On Multi-use Paths
 - Provide guidelines on location and collection procedures
- ▣ Completion Date of Dec. 2013

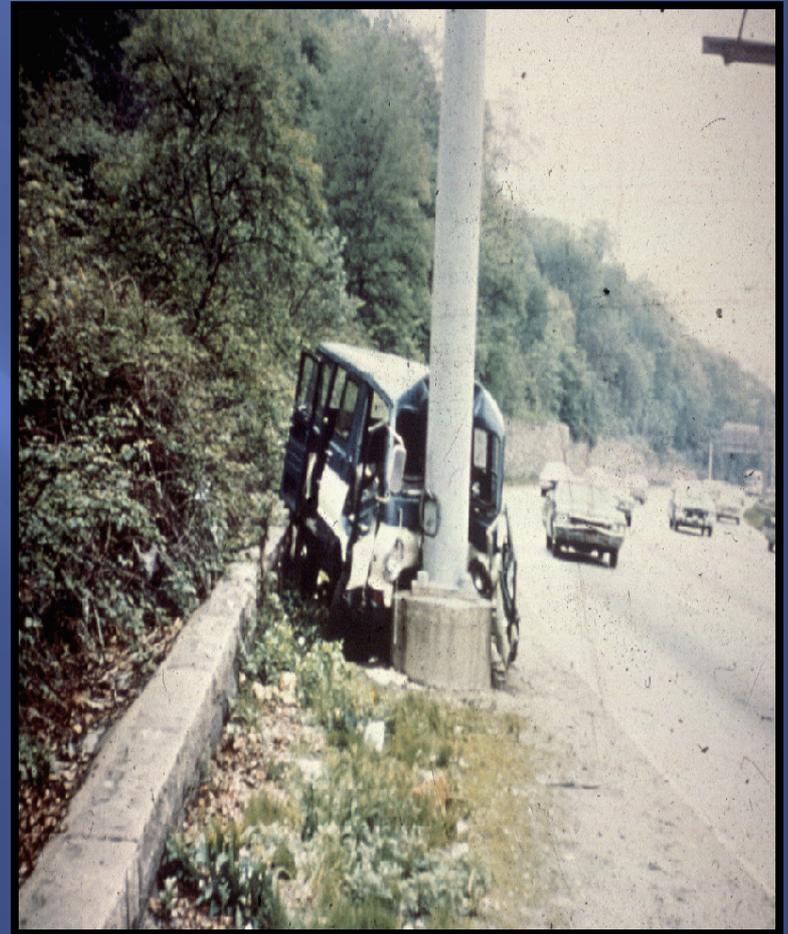


SPR 756- Improved Safety Performance Functions for Signalized Intersections



Research in Progress

- ▣ SPR 771-Risk Factors Associated with High Potential for Serious Crashes
 - Identify risk factors and features that contribute along low and moderate volume roads
 - Establish cost effectiveness of low cost countermeasures
 - Conduct case studies to demonstrate the use of risk factors and potential application of low cost countermeasures to address



National Research

- NCHRP 659- Geometric Design of Driveways,
- NCHRP 687- Ramp and Interchange Spacing
- NCHRP 745- Left Turns @ Unsignalized Intersections
- NCHRP 730- Freeway Mainline Ramp Terminals



National Research (cont.)

- ▣ NCHRP 737- Hi to Low Speed Transitions Zones on Rural Highways
- ▣ TRB-TPF-5(220)- Accommodating Oversize/Overweight Vehicles @ Roundabouts

