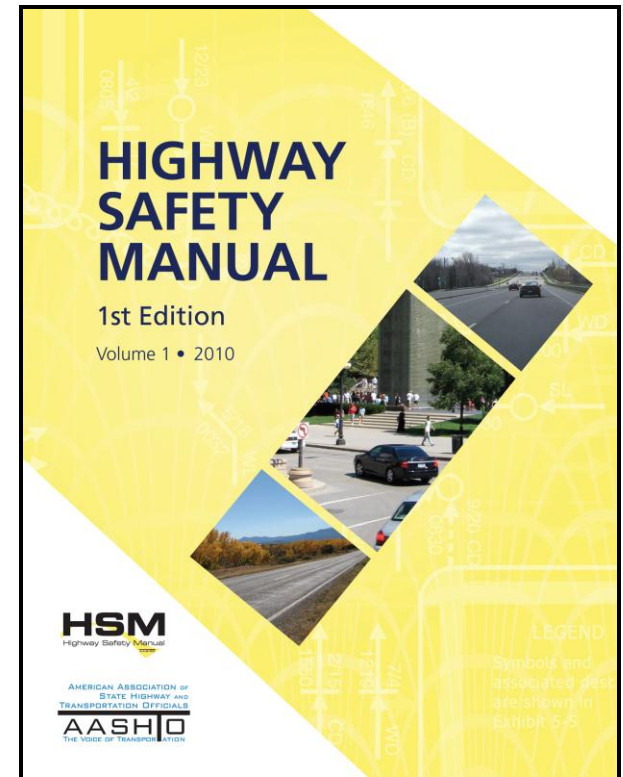


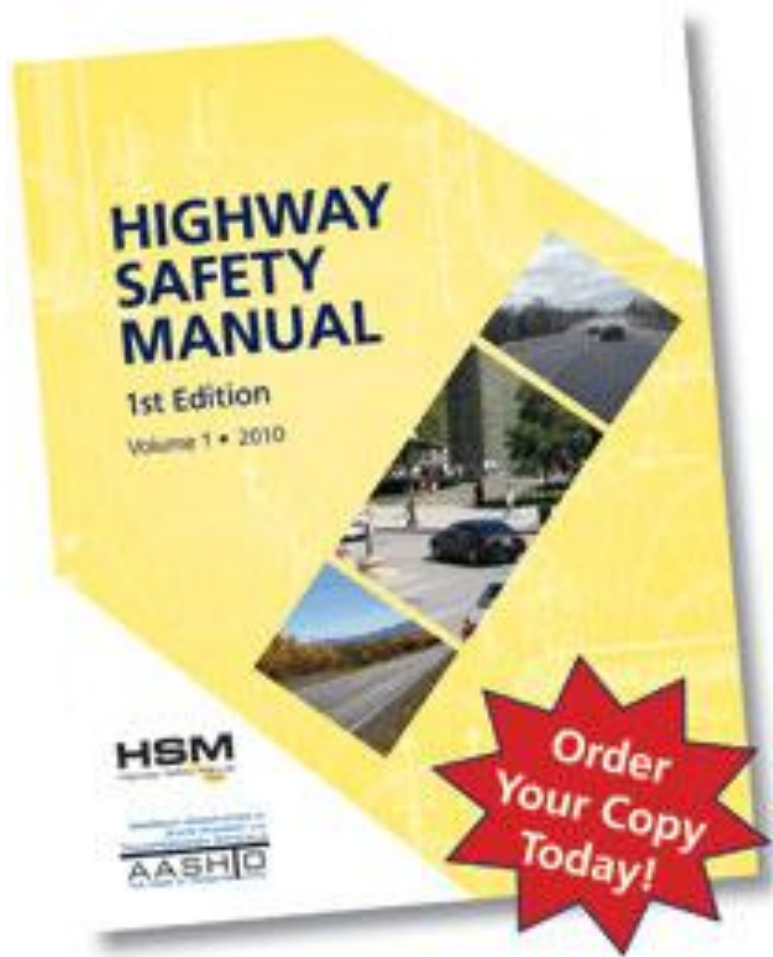
Highway Safety Manual Overview

Introduction & Background



What is the HSM?

Kinda Hot Off the Press



- Released July 2010
- Print version
- Single-user CDROM
- Planning for 2nd Edition

What is the HSM?

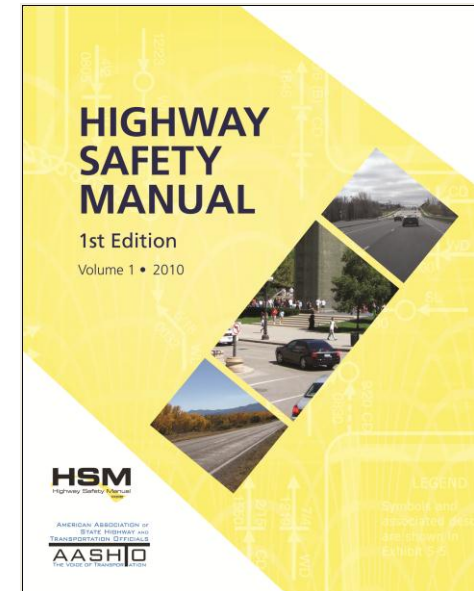
A Decade of Effort

- Millions of dollars invested
- Thousands of hours expended
- A clear and ambitious Vision
- Steady progress; Occasional setbacks
- A Historical First



What is the HSM?

Contains Best Science & Research



- Synthesis of previous research
- New research commissioned by AASHTO and FHWA

What is the HSM?

An AASHTO Publication that...

- ▶ Synthesis of validated highway safety research
- ▶ Analytical tools for predicting road safety
- ▶ Facilitates safety throughout project development process

HSM Content and Structure

Part A
Introduction
Human Factors
Fundamentals

Part D
Crash Modification
Factors (CMFs)



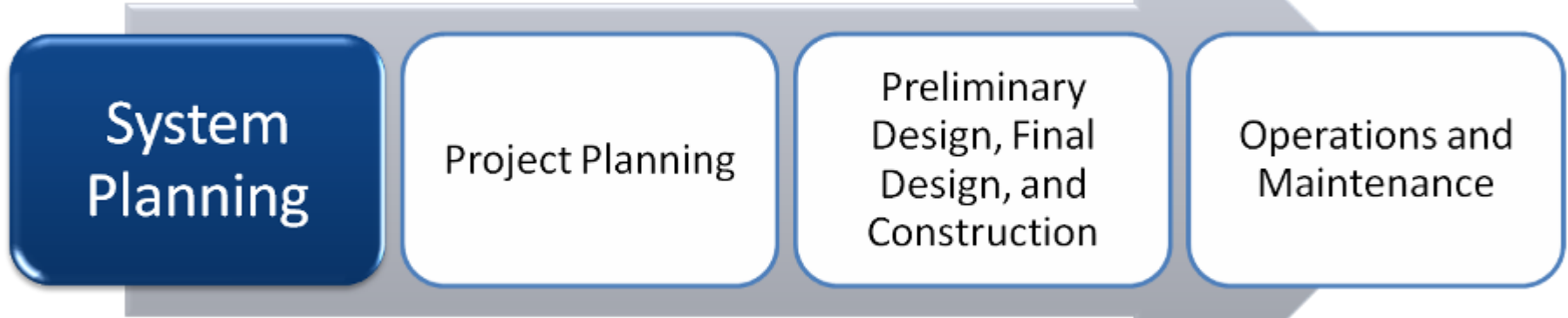
Part B
Roadway Safety
Management
Process

Part C
Predictive Method

Why Do We Need the HSM?

- ▶ Identifying crash frequency or severity reduction sites
- ▶ Identifying treatments to address crash patterns
- ▶ Conducting economic appraisals
- ▶ Estimating design effects on crash frequency and severity
- ▶ Evaluating crash reduction benefits of treatments

When Can We Use the HSM?



- Assess the system needs & identify projects/studies
- Program projects
- Evaluate system-wide safety effects of programs

EXAMPLE



26.3 crashes/mile

Existing Conditions



17.2 crashes/mile

Alternative 1



8.6 crashes/mile

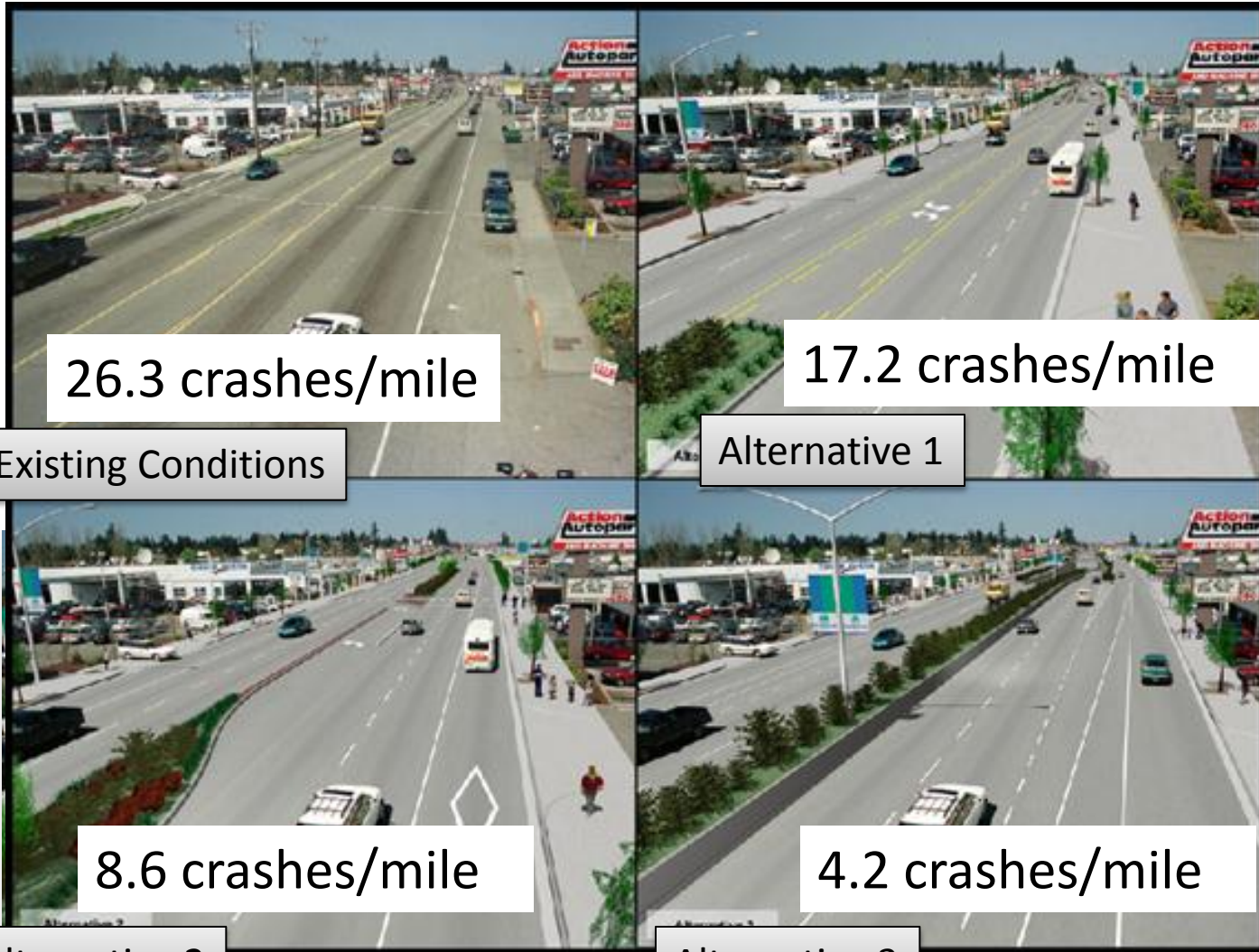
Alternative 2



4.2 crashes/mile

Alternative 3

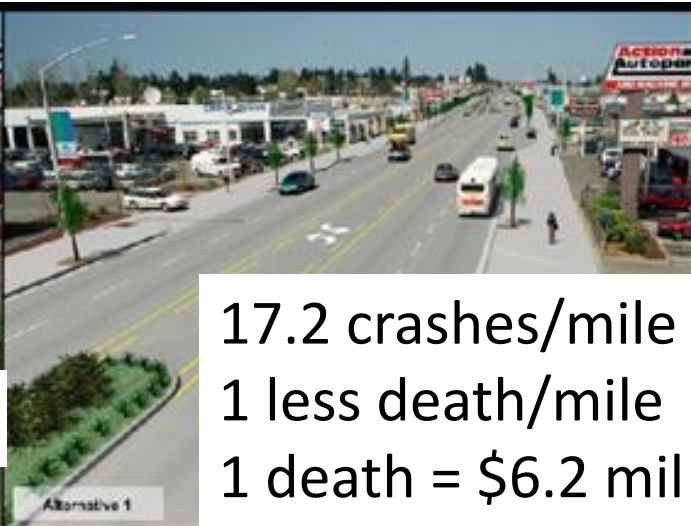
How much money was saved?



EXAMPLE



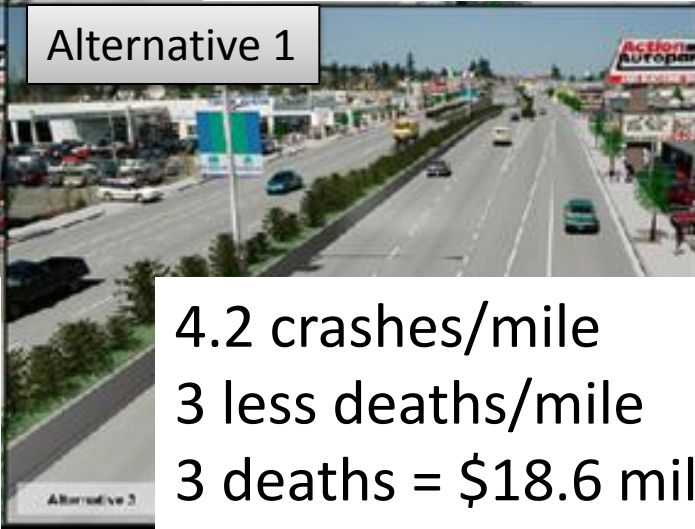
Existing Conditions



Alternative 1



Alternative 2



Alternative 3

Easily double; doesn't account for any injuries

Local Resources for HSM

Cindy Cramer, P.E.

Donna Hardy, P.E.

Questions?