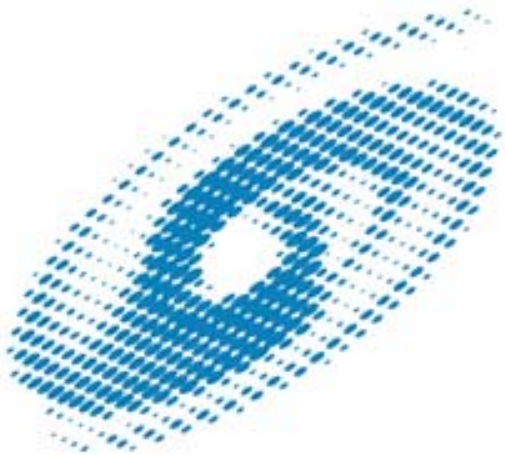
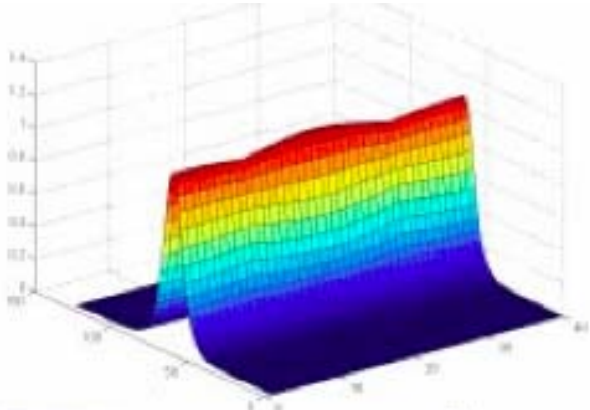
Routinizing the Routine:
Ubiquitous Sensing of Routine Patterns

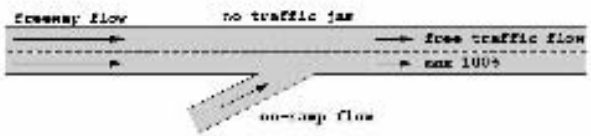
John Leslie King

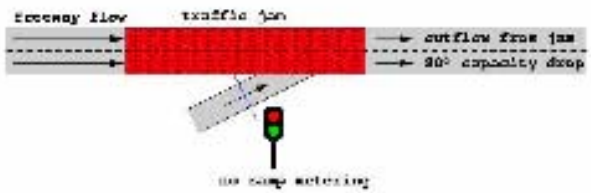


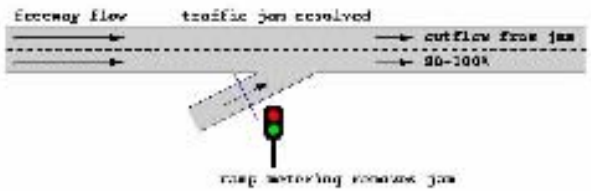
SCHOOL OF INFORMATION
UNIVERSITY OF MICHIGAN

Clayton Pkwy
65

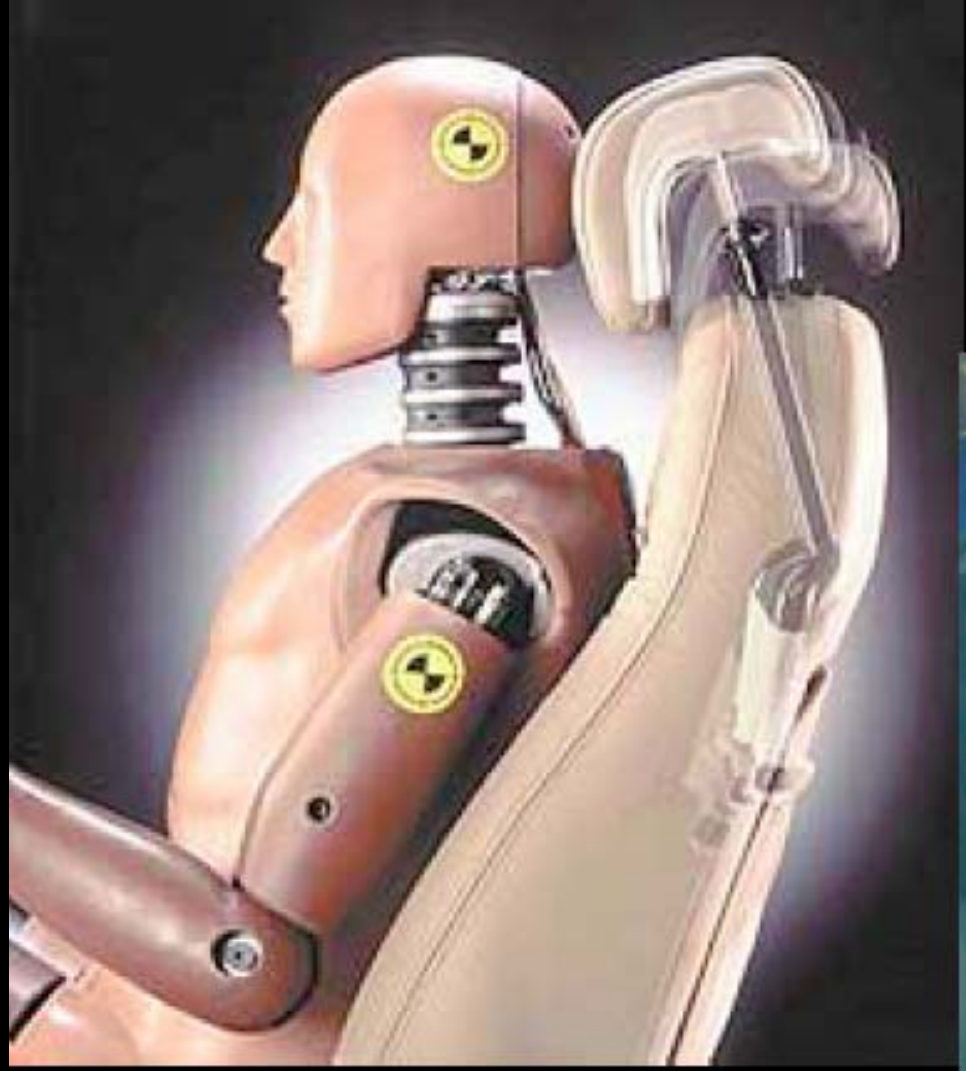


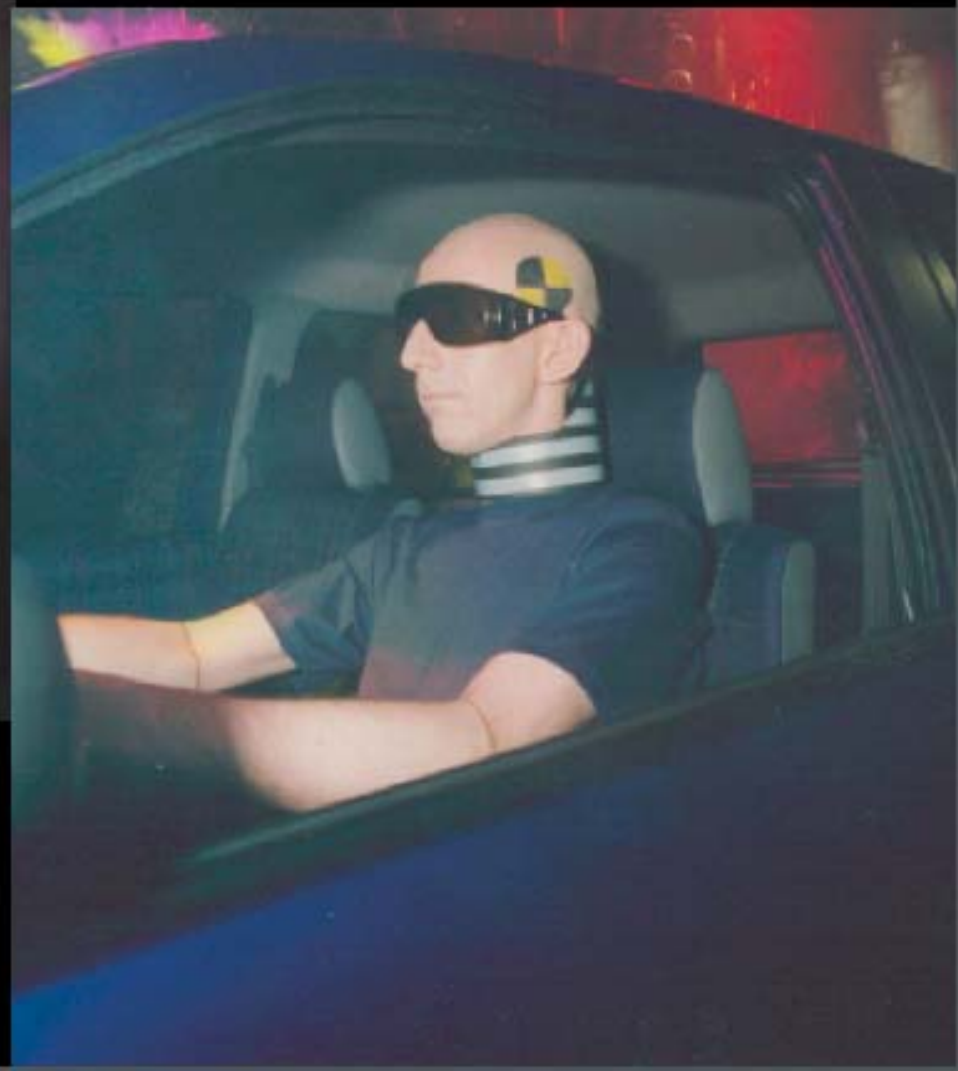

freeway flow
no traffic jam
free traffic flow
max 1000

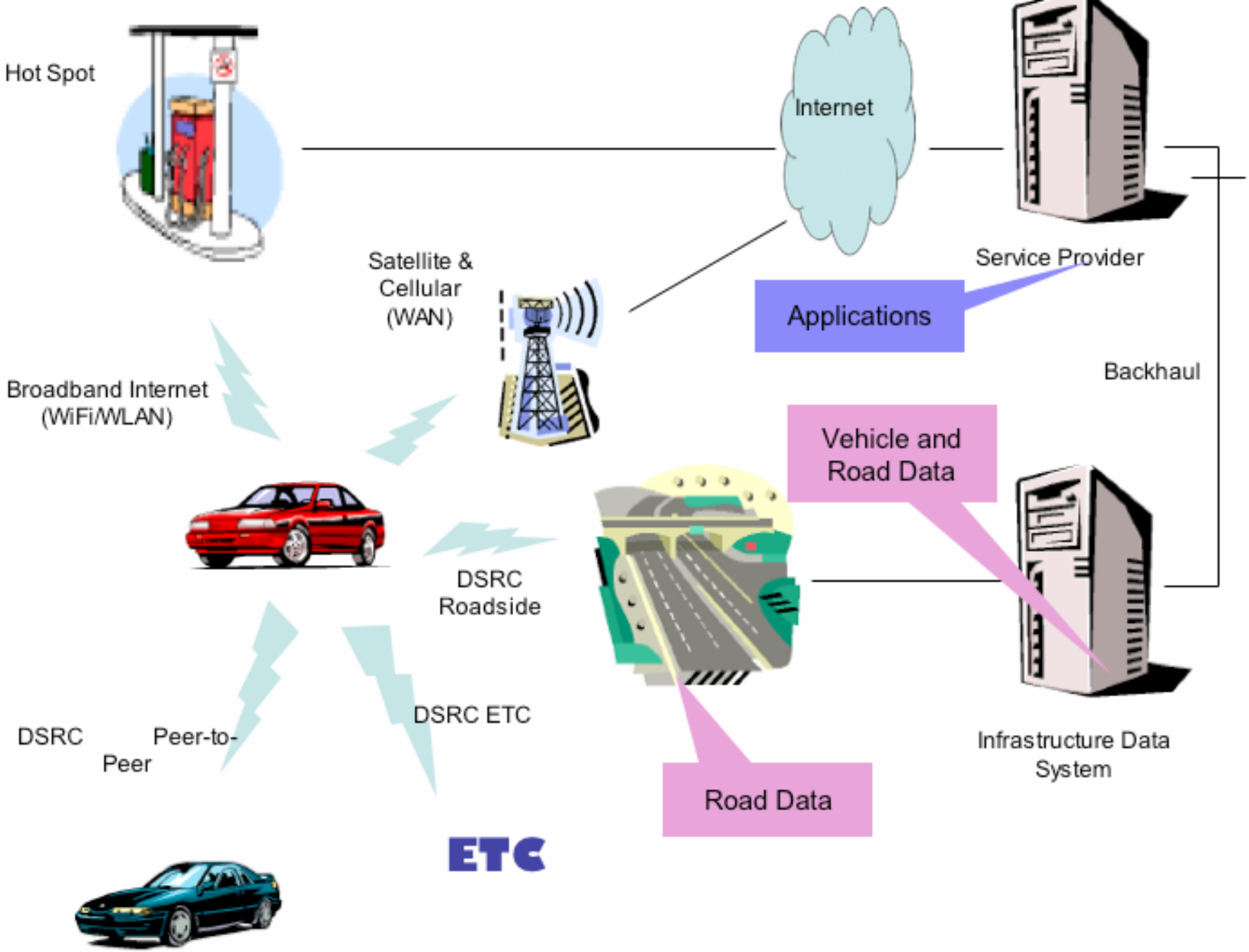

freeway flow
traffic jam
outflow from jam
80% capacity drop


freeway flow
traffic jam resolved
outflow from jam

STOP
HERE ON
RED






Hot Spot
Internet
Service Provider
Satellite &
Cellular
(WAN)
Applications
Backhaul
Broadband Internet
(WiFi/WLAN)
Vehicle and
Road Data
DSRC
Roadside
DSRC ETC
DSRC
Peer-to-
Peer
Infrastructure Data
System
Road Data
ETC

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Technology Overview

Focus Areas
New Initiatives
Exploratory Initiatives
Other Program Activities

Foundational Framework
Architecture
Standards
Telecommunications

Deployment Support
Deployment Statistics

Vehicle Infrastructure Integration (VII)

21,000 of the 43,000 deaths annually on America's highways are caused by roadway departure and intersection related incidents. Building on work previously done in the Intelligent Vehicle Initiative, the Vehicle Infrastructure Integration initiative will work toward deployment of advanced vehicle-vehicle and vehicle-infrastructure communications that could keep vehicles from leaving the road and enhance their safe movement through intersections.

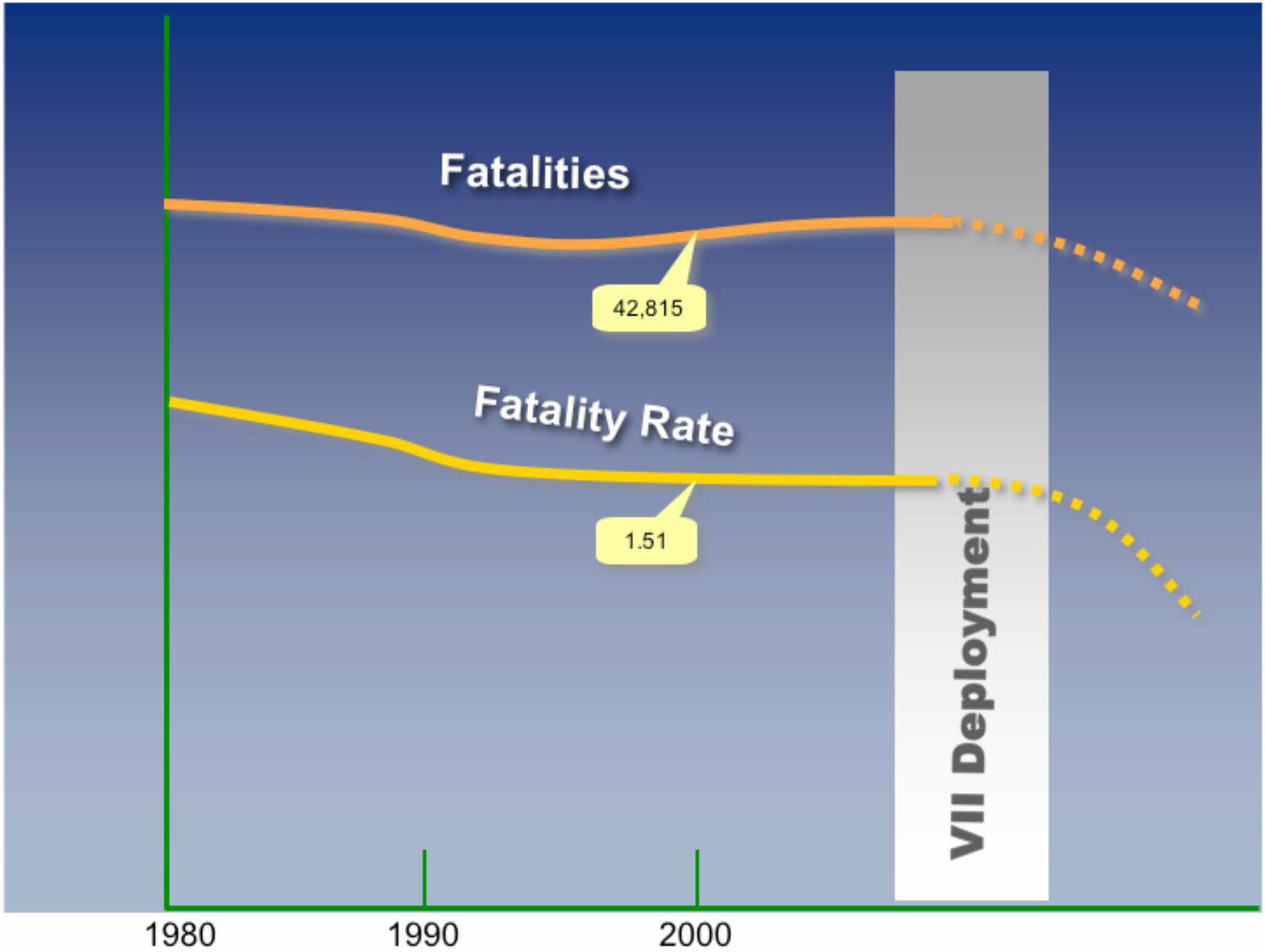
- VII Concept of Operations

- Initiative Overview
- VII Public Meeting
- Related Areas of Interest
- Publications and Presentations

Contact

For more information about this initiative, please contact:

Bill Jones
Manager, Vehicle Infrastructure Integration Initiative


Fatalities
42,815
Fatality Rate
1.51
VII Deployment
1980
1990
2000

USDOT -- FHWA, NHTSA

AASHTO (American Association of State Highway and Transportation Organizations) 10 state DOT's

Auto OEMs -- BMW, Daimler Chrysler, Ford, GM, Nissan, Toyota, VW

Insurance Industry

STOP NOW