

The Role of IVI in Highway Safety

June 25, 2003



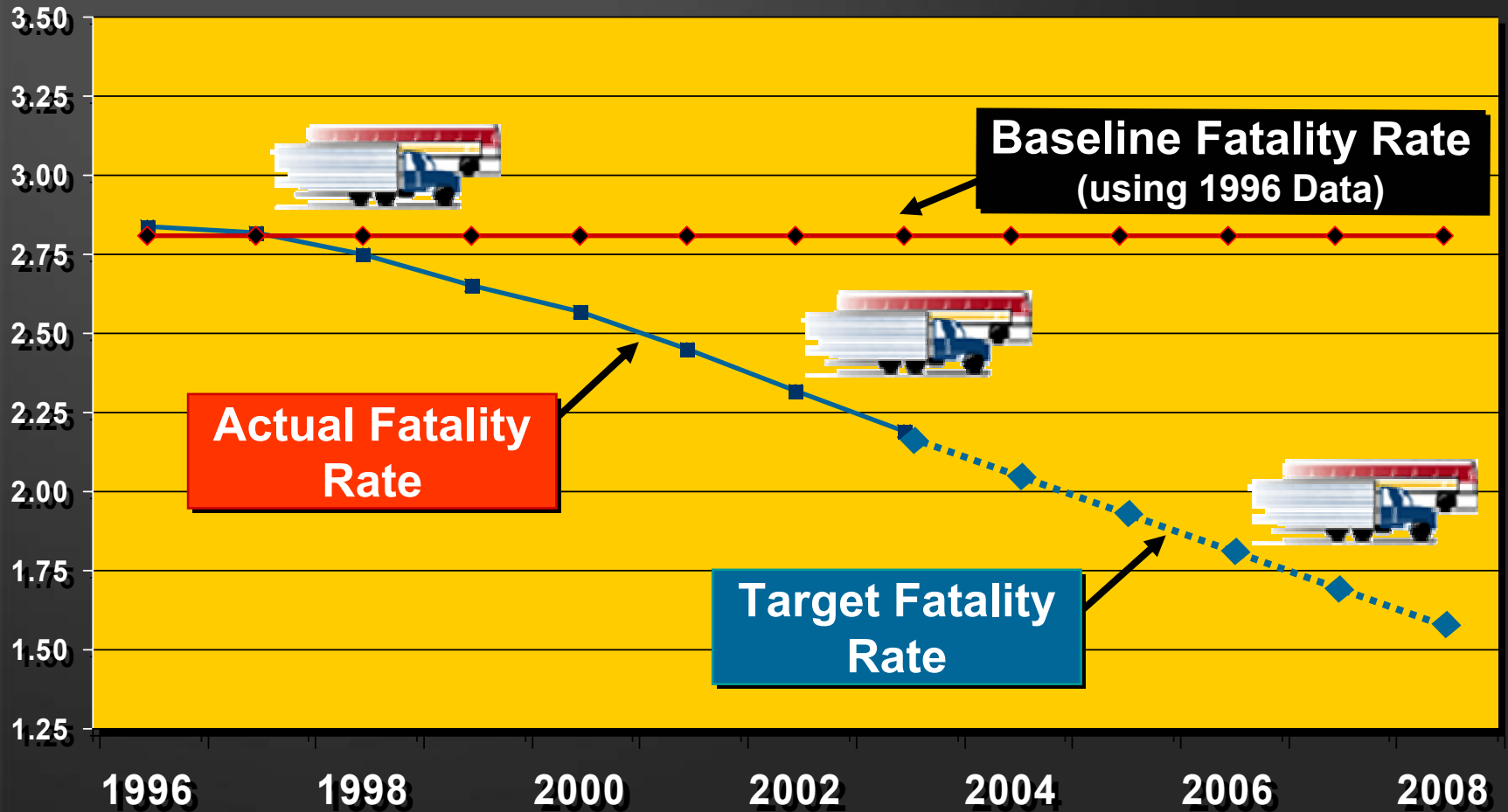
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Administrator Designate
FMCSA

Our Mission



- **Save lives and reduce**
- **Injuries by preventing truck and bus crashes**

Decreasing Truck-Related Fatalities



IVI's Positive Impact

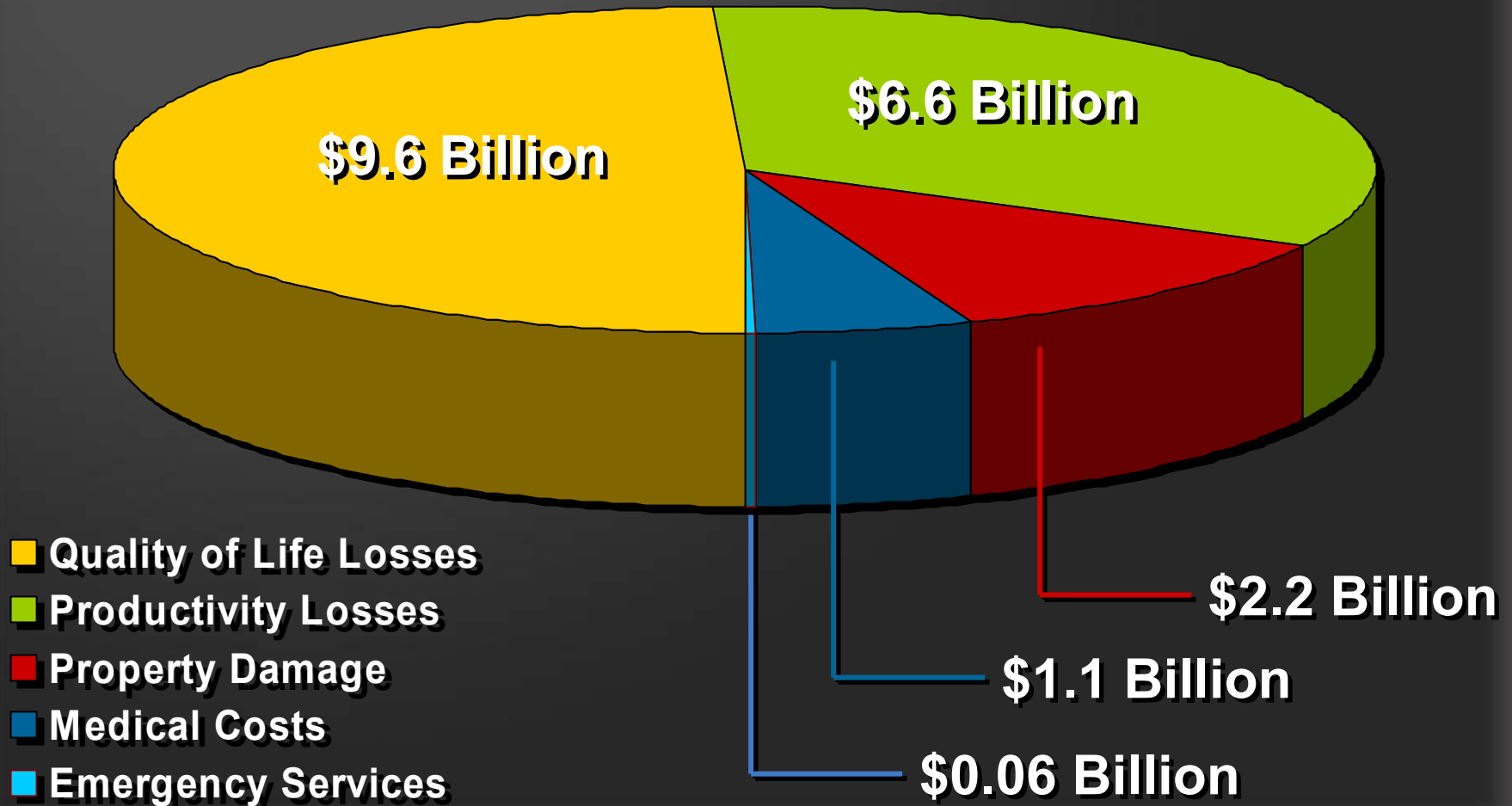
- **Directly relates to FMCSA safety goal**



- **Driver error is cited in a high percentage of police reported crashes**
- **IVI technologies address behaviors including: following too close, unintended lane departures, driving too fast in turns, etc.**

Cost of Large Truck Crashes

Total of \$19.6 Billion (2000 Costs)



FMCSA's Role in IVI

- **Manage commercial vehicle platform**
 - **Evaluate a wide range of IVI technologies through research**
 - **Several large-scale projects initiated**



FMCSA and IVI Rely on Partnerships

- IVI fosters strong relationships
- Provides cost sharing, shared expertise and resources

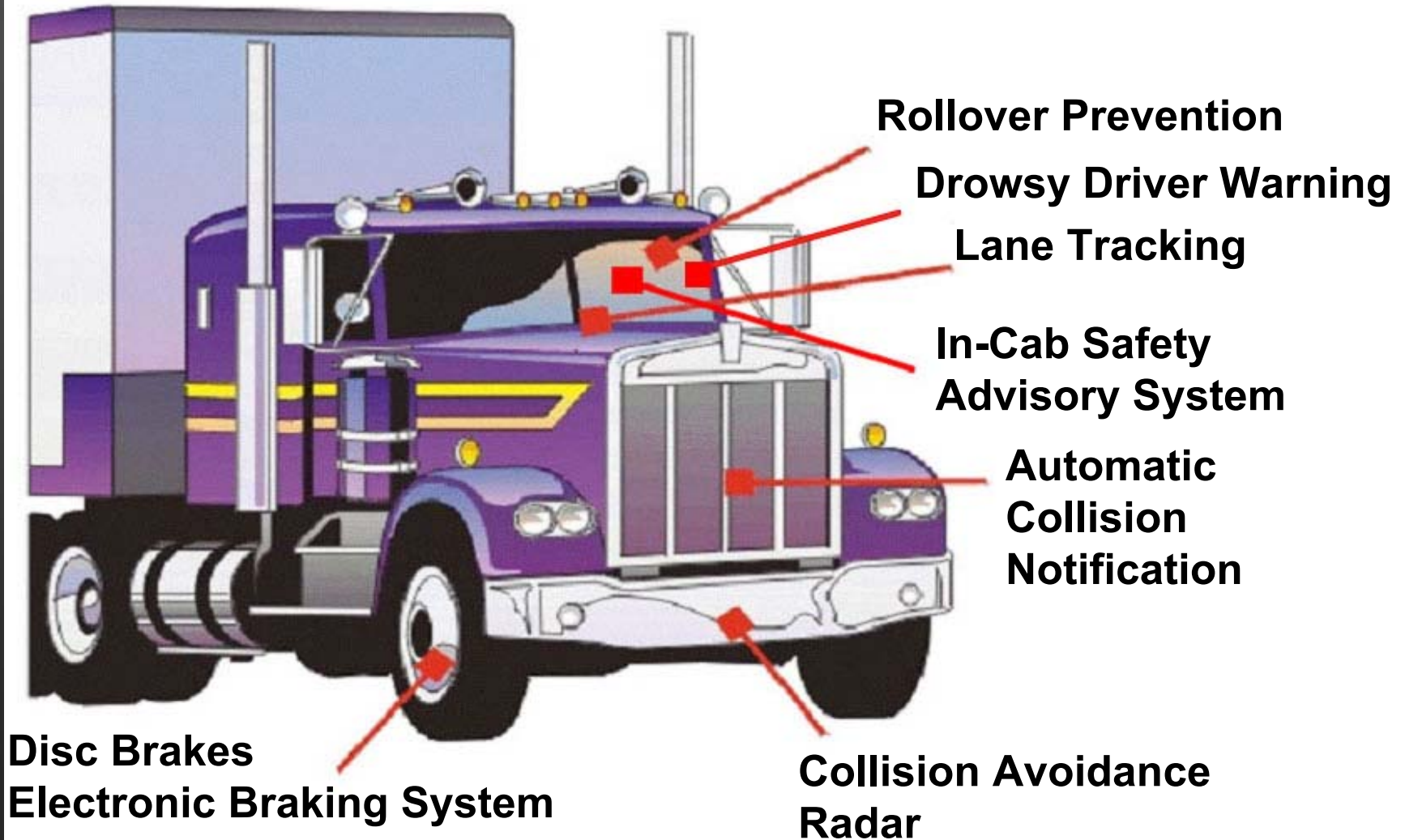


Funding



- **Commercial vehicle IVI – About \$4 million to \$5 million annually**
- **Commercial vehicle fleets**
 - **Optimal test beds for new technologies**

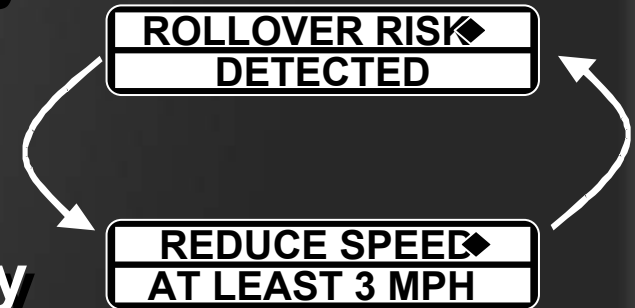
How We've Applied IVI Funding



Crash Prevention – Near Term Results

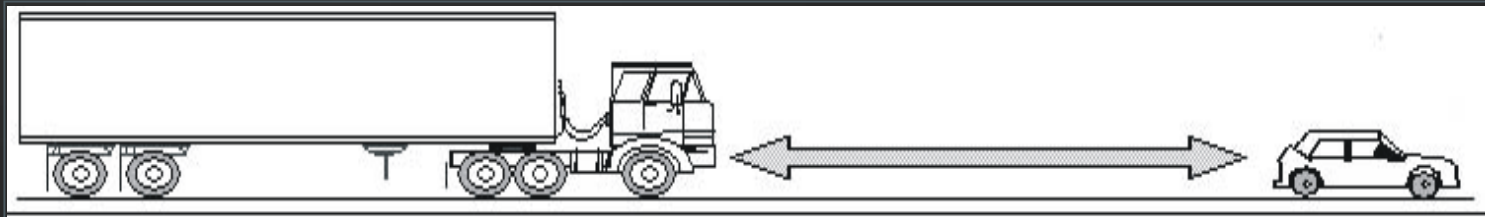
■ Rollover prevention technology

- Large field test completed
- Effectiveness demonstrated
- Improved system commercially available



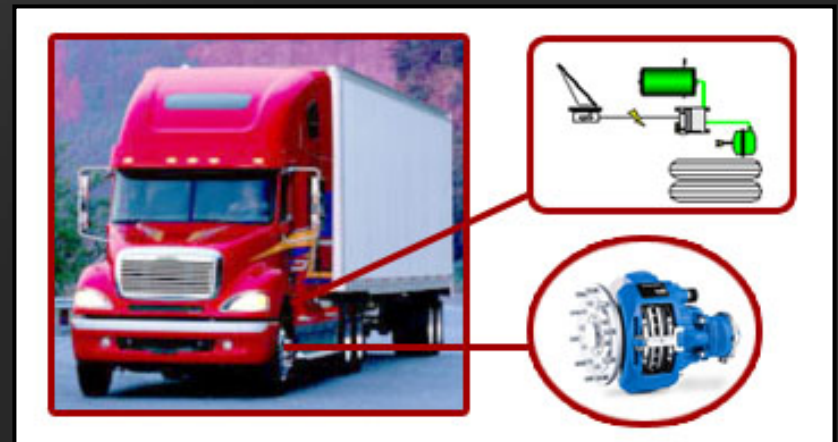
■ Rear-end collision avoidance

- Large-scale field test soon to be completed
- Many fleets already using the technology



Improving Large Truck Braking

- **Advanced electronic braking systems**
 - **Enable integration of IVI technologies with brakes**
 - **Reduce large truck stopping distance**
 - **Automatically correct unstable vehicle dynamics**
 - **Provide real-time brake diagnostic information**



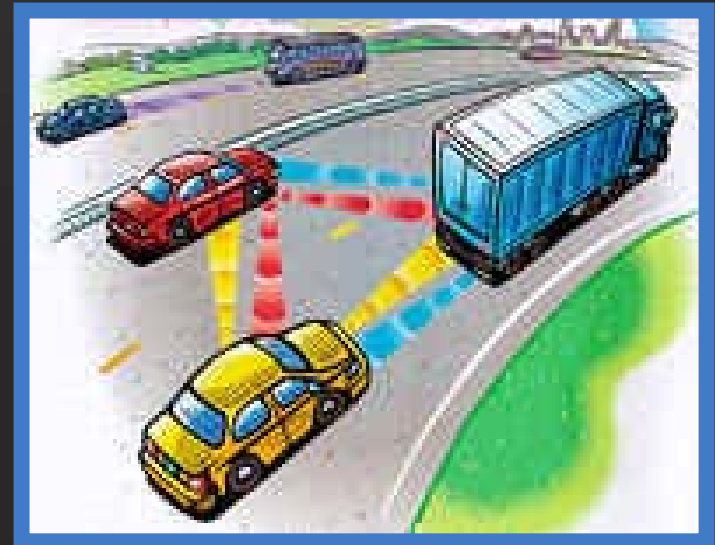
Additional Key Technologies



- **Additional large-scale field tests underway**
 - **Lane tracking**
 - **Safety advisories**
 - **Collision notification**
 - **Drowsy driver warning**

Future Vision

- **Integration of technologies**
 - **IVI**
 - **Fleet management systems**
- **Comprehensively address additional safety areas**
- **Widespread deployment**
 - **Save lives**
 - **Reduce injuries**



SAFETEA and Commercial Vehicle ITS

- **SAFETEA supports future ITS vision**
 - **ITS/IVI field operational tests**
 - **Improved safety of commercial vehicle operations**
 - **Improved crash avoidance systems, including systems integration**
 - **Partnerships with industry**

