# FMCSA R&T: Today and Tomorrow

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U.S. Department of Transportation Federal Motor Carrier Safety Administration TRB

# **On-Board Vehicle Recording**

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## **On-Board Recording: Why Do It?**

 Operational productivity Proactive vehicle maintenance Vehicle performance Driver feedback Compliance assurance Impartial observer

#### Where Are We Today?

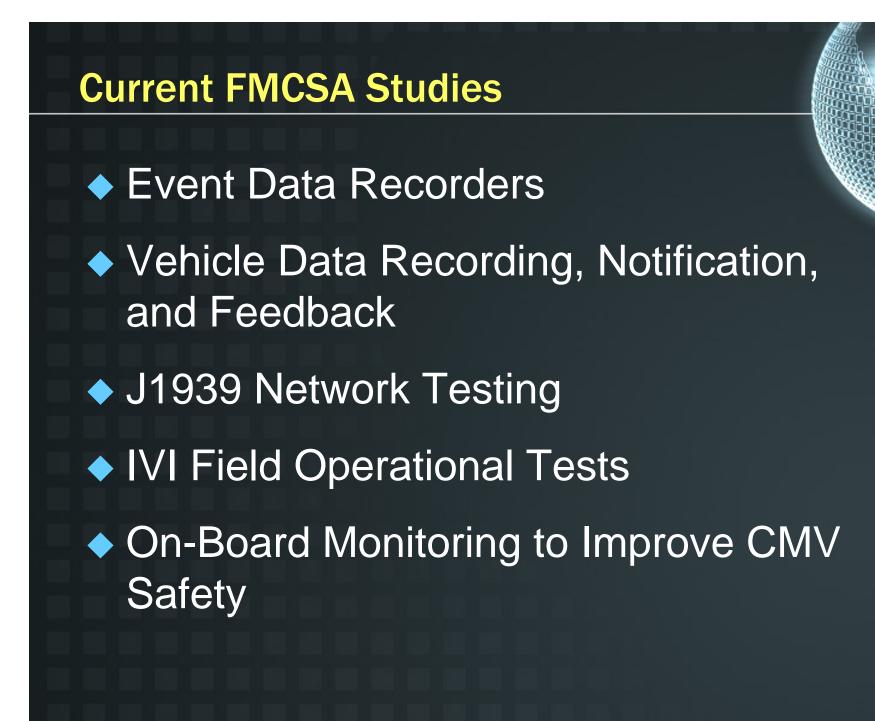
 Voluntary use of technology in highway vehicles

 Emerging recommended practices for gathering, storing, and retrieving data from highway vehicles

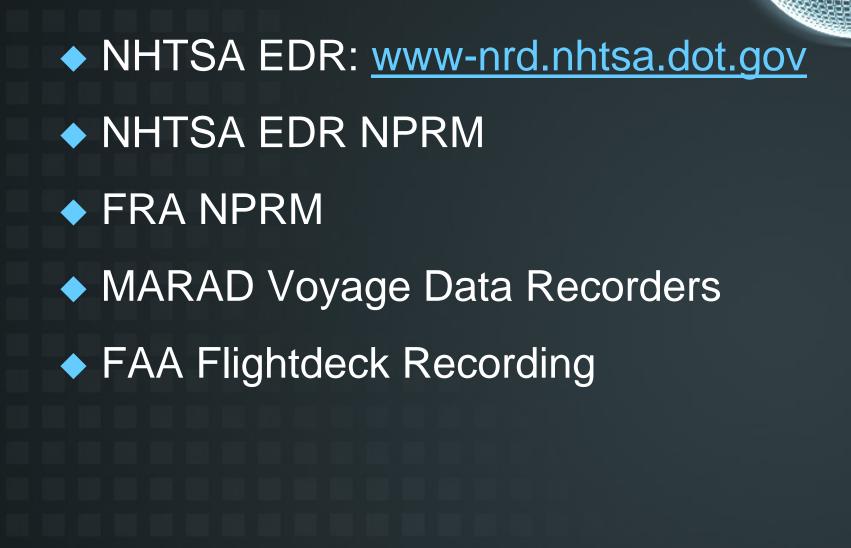
## What Are The Technology Drivers?

Electronically-controlled engines
High-speed vehicle databus
Smaller and more durable sensors
Smaller, more durable, and cheaper recording devices and media

 Improved communications technologies







#### **Research and Technical Activities Outside USDOT**

♦ SAE J1698-1 ("VEDI") ◆ SAE T&B EDR ◆ TMC RP 1214 ◆ IEEE 1616, 1616a ◆ NCHRP 17-24

#### **HOS Recording**

- 1980s: Pilot project, AOBRD rule
- **1998:** Electronic Recorder Study
- 1998: NOI GPS Technology Pilot
- 2002: Literature & Technology Review
- 2003: HOS Research & Analysis Modules
- **2004:** Werner Exemption GPS Technology
- 2005: Technology & Market Assessment

## **EOBR Rulemaking**

 ANPRM published Sept. 1, 2004 Comment period closed Nov. 30, 2004 Approximately 300 comments in docket Analysis is in progress Next steps TBD

## It's Not Just About The Record . . .

... it's about the data

- How the data is transformed into useful information
- How the information is used to improve both safety and productivity

## For more information:

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