

# **FMCSA Data Quality Program Overview**

2014 Transportation Research Board 93<sup>rd</sup> Annual Meeting Federal Motor Carrier Safety Administration Analysis, Research, and Technology Forum January 14, 2014



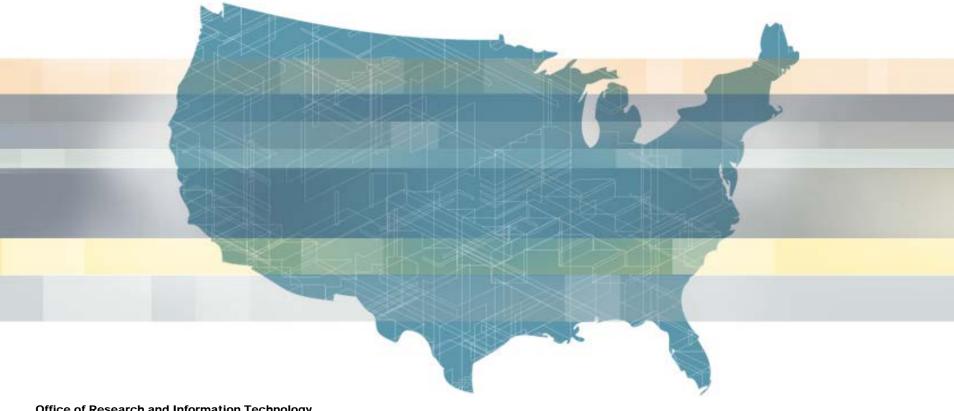
## Agenda

- Why Improve Data?
- How Does Data Quality Impact the Federal Motor Carrier Safety Administration (FMCSA)?
- State Safety Data Quality (SSDQ) Program
- Trends in Data Quality



# Why Improve Data?

- Effective safety programs need high quality data.
- FMCSA tasked with improving State-supplied data.
- FMCSA created a Data Quality Program to collect better



## How Does Data Quality Impact FMCSA?

Crash and inspection data are critical to FMCSA's data-driven safety systems that help the Agency prevent crashes, injuries, and fatalities related to commercial motor vehicles.



#### Data-Driven Safety Systems

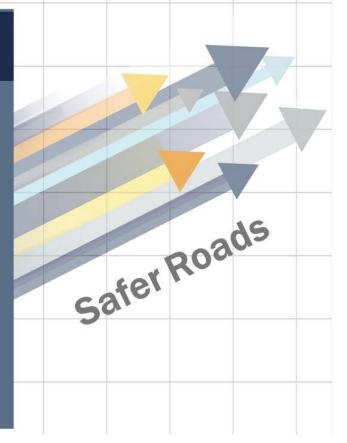
Safety Measurement System (SMS)

New Applicant Screening (NAS)

Inspection Selection System (ISS)

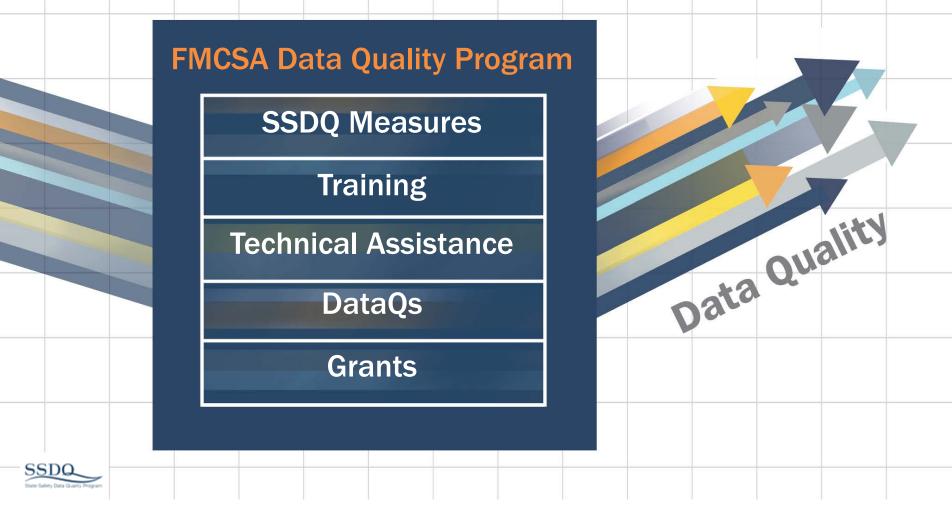
**Driver Information Resource (DIR)** 

Pre-Employment Screening Program (PSP)

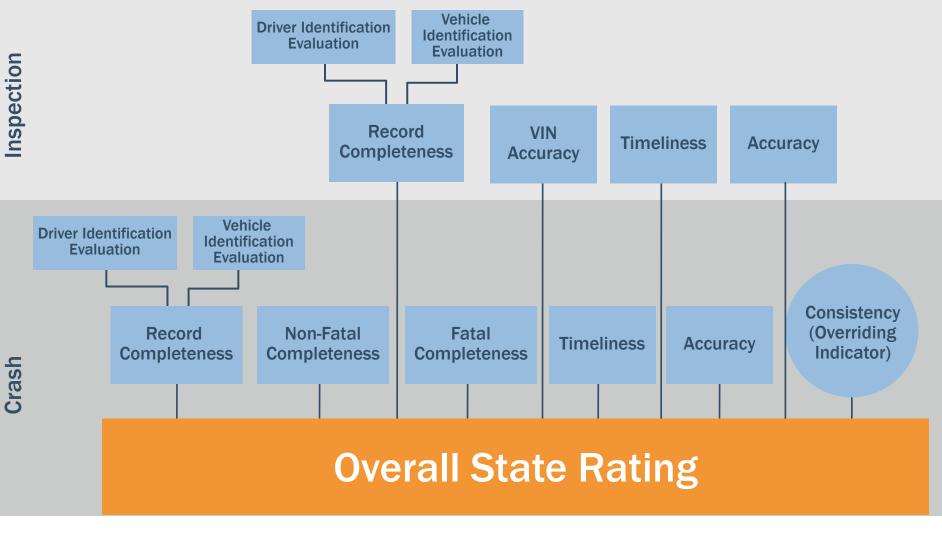


# **SSDQ Program**

The FMCSA Data Quality Program addresses the different phases of the data reporting process to meet each State's needs.



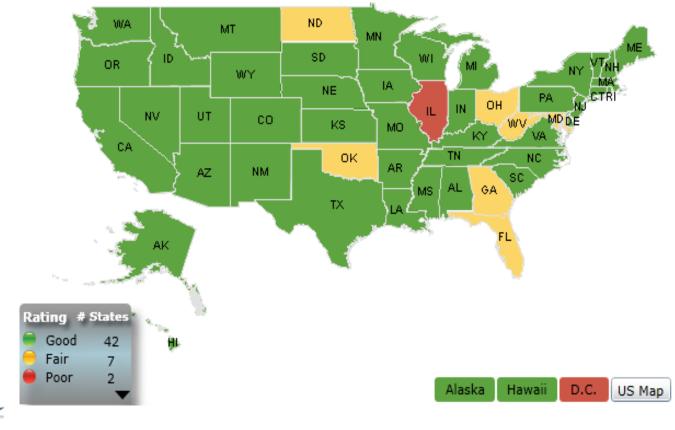
#### **SSDQ Measures**





## **Measuring Results**

- SSDQ results are updated monthly and available online.
- Map changes monthly and is a barometer for national data quality (map shown is for November 2013).



## **Data Quality Trends**

Data quality is improving, but we still have work to do. The table below shows ratings according to SSDQ measures. Data quality improved over the non-consecutive 3-year period.

Measures	2004 Rating	2007 Rating	2013 Rating	2013 Record Counts
Crash Timeliness	69%	80%	90%	13,319 late (>90 days)
Crash Accuracy	87%	87%	98%	1,681 not matched to a carrier
CRC* – Vehicle	N/A	<b>72</b> %	96%	5,863 missing vehicle data
CRC – Driver	N/A	65%	95%	7,331 missing driver data

\*CRC = Crash Record Completeness



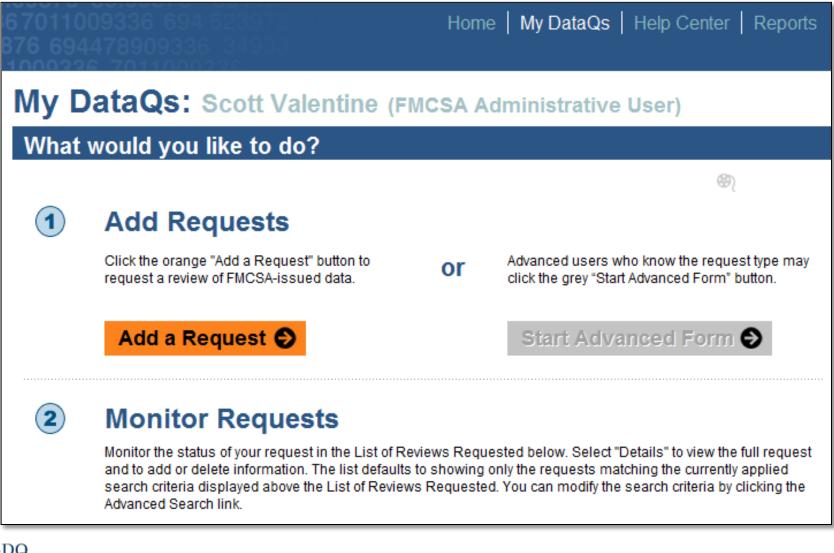
## **Training and Technical Assistance**

FMCSA provides training to State law enforcement agencies collecting data, and technical assistance to State organizations that send data to FMCSA.





#### DataQs





#### **Grants - SaDIP**

The Safety Data Improvement Program (SaDIP) is available to the States, the District of Columbia, and the U.S. Territories to help with the completeness, timeliness, and accuracy of the crash and inspection data reported to FMCSA.

- \$3,000,000 per year in grants.
- Typically, 9 to 15 grants are awarded per year.
- Applications for fiscal year 2014 are due in late February 2014.
- 36 States have received 97 SaDIP grants since the inception of the program in 2006.



#### **Contact Information**

For more information about FMCSA's Data Quality Program, please contact:

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Data Quality Website: http://ai.fmcsa.dot.gov/DataQuality/dataquality.asp

> DataQs: http://dataqs.fmcsa.dot.gov/

