



U.S. Department of Transportation  
**Federal Motor Carrier Safety Administration**  
Office of Analysis, Research, and Technology

# CVSA and FMCSA Data Quality Training

CVSA Annual Workshop  
Information Systems Users Workshop  
April 7, 2014



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Office of Research and Information Technology



# Data Quality Supports FMCSA Safety Programs

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)

Driver Safety Measurement System (DSMS)

Safer Roads

# State Safety Data Quality (SSDQ) Program

The FMCSA Data Quality Program offers a toolbox of improvement tactics to meet States' varying needs

## FMCSA Data Quality Program

SSDQ Measures

Training

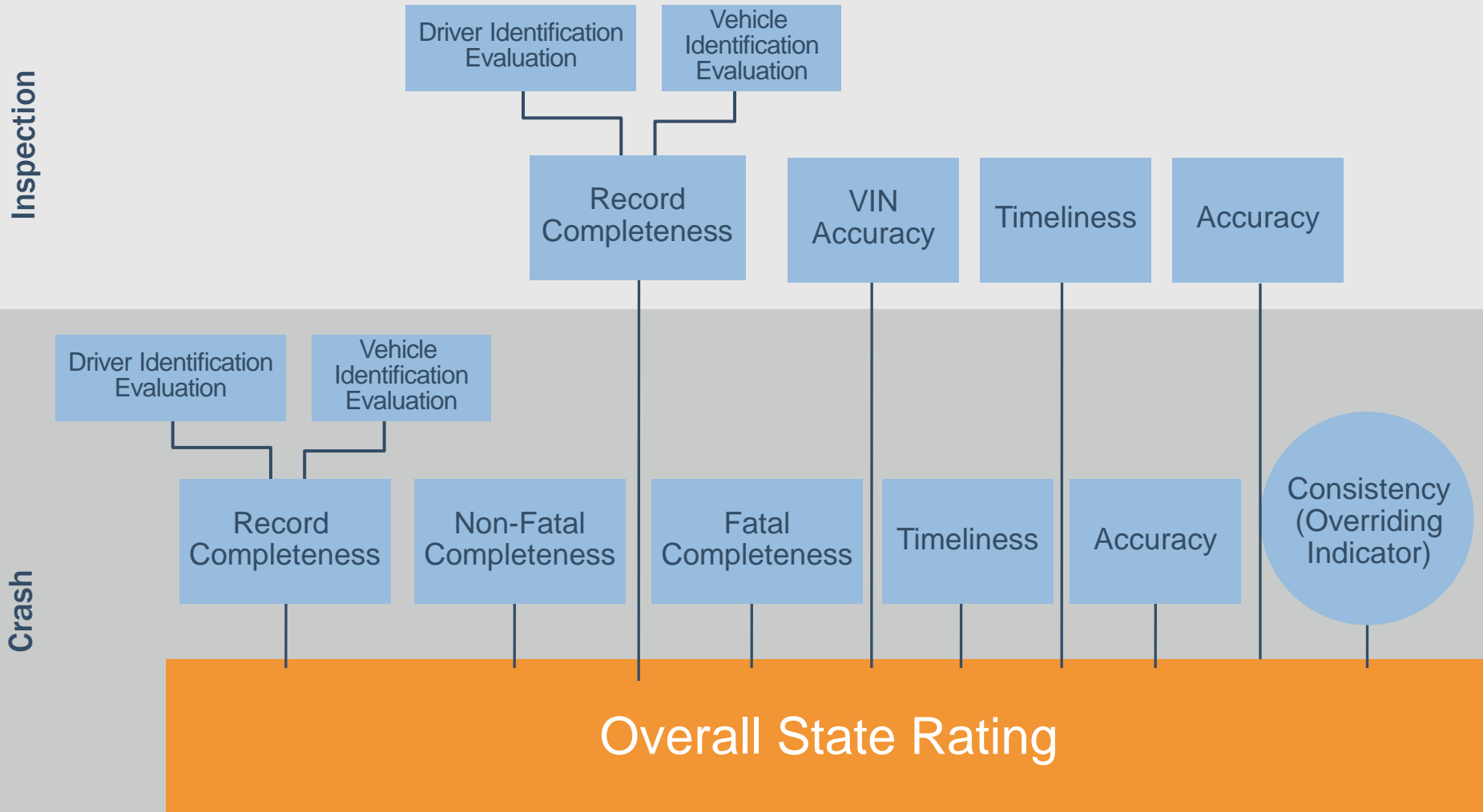
Technical Assistance

DataQs

Grants

Data Quality

# SSDQ Measures



# The SSDQ Measures that Support SMS BASICS

BASICS

- 1 Inspection Accuracy
- 2 Inspection Timeliness
- 3 Non-Fatal Crash Completeness
- 4 Fatal Crash Completeness
- 5 Crash Accuracy
- 6 Crash Timeliness
- 7 Crash/Inspection Record Completeness

## Driver Information

- 1
- 2
- 3
- 4
- 5
- 6
- 7



## Unsafe Driving

- 1
- 2



## Hours-of-Service Compliance

- 1
- 2



## Driver Fitness

- 1
- 2



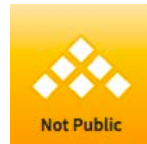
## Controlled Substances/Alcohol

- 1
- 2



## Vehicle Maintenance

- 1
- 2



## Hazardous Materials Compliance

- 1
- 2



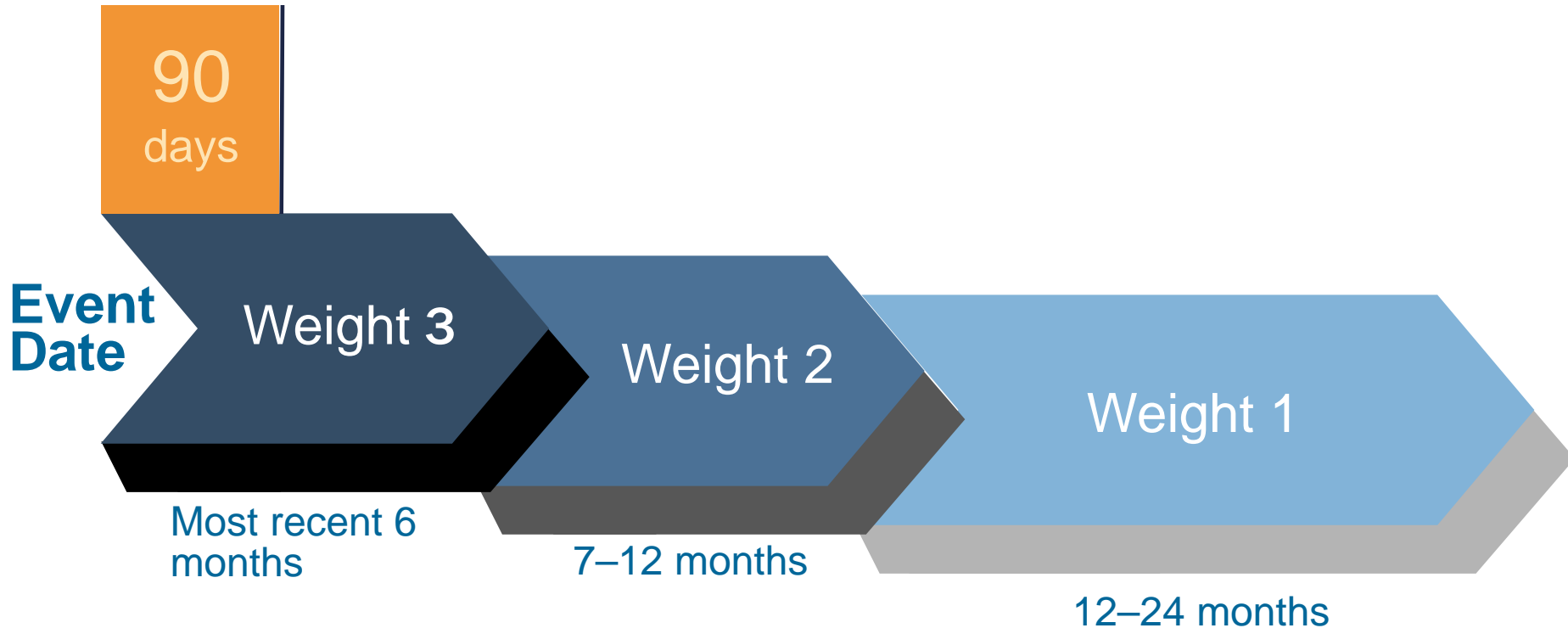
## Crash Indicator

- 3
- 4
- 5
- 6

# Why Timeliness Matters

## SMS Weights Crashes by Time

SSDQ Crash Timeliness  
Measure: submit records  
within 90 days



# SSDQ Results

- SSDQ results updated monthly and available online (February 2014)
- Map changes monthly and is a barometer for national data quality





# Data Quality Trends

- Data quality is improving, but we still have work to do
- The table below shows ratings according to SSDQ measures

Measures	2004* Rating	2008* Rating	2013* Rating	2013* Record Counts
Crash Timeliness	69%	88%	91%	<b>12,483</b> late (>90 days)
Crash Accuracy	87%	96%	98%	<b>1,846</b> not matched to a carrier
CRC – Vehicle	N/A	87%	96%	<b>5,548</b> missing vehicle data
CRC – Driver	N/A	81%	95%	<b>6,935</b> missing driver data

\* Fiscal Year



# 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



## My DataQs: Scott Valentine (FMCSA Administrative User)

### What would you like to do?



#### 1 Add Requests

Click the orange "Add a Request" button to request a review of FMCSA-issued data.

or

Advanced users who know the request type may click the grey "Start Advanced Form" button.

**Add a Request** →

**Start Advanced Form** →

#### 2 Monitor Requests

Monitor the status of your request in the List of Reviews Requested below. Select "Details" to view the full request and to add or delete information. The list defaults to showing only the requests matching the currently applied search criteria displayed above the List of Reviews Requested. You can modify the search criteria by clicking the Advanced Search link.

## Grants – SaDIP

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

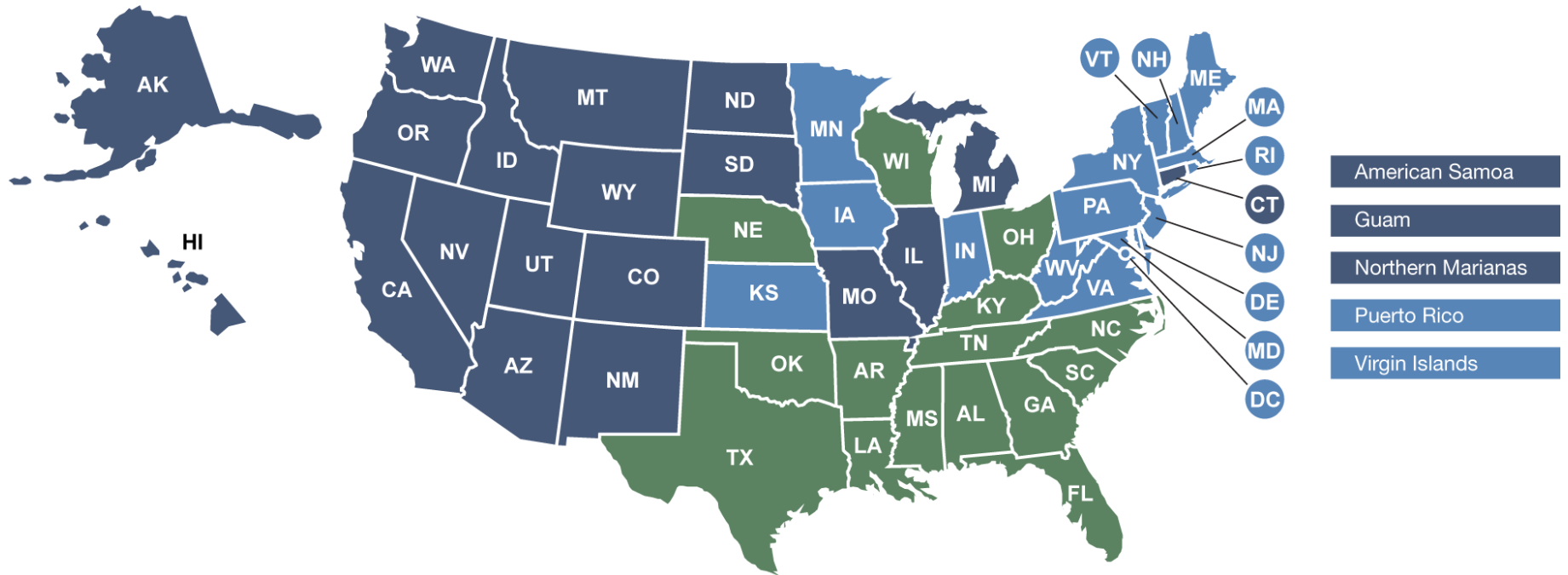
- \$3,000,000 per year in grants
- Typically, 9–15 grants awarded per year
- 97 SaDIP grants awarded to 36 States since the program began in 2006

# Meet Your DQ Specialist

 Kevin Berry

 Deirdre Hering

 Janet Bibinski



# Training Overview

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Today's training covers:

- Reports and resources to help monitor SSDQ measures
- Examples of how States identified and improved their SSDQ
- Possibilities to improve the SSDQ ratings and the challenges we face
- Responding to Requests for Data Review received through DataQs

# Visit the Data Quality Website

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

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(202) 366-4869

Data Quality Website:

<http://ai.fmcsa.dot.gov/DataQuality/dataquality.asp>

DataQs:

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