

## Federal Highway Administration Traffic Incident Management Program Update

### The Evolving Business Case: Why TIM?

The business case for training incident responders:

1. The safety of incident responders.
2. The safety of all road users.
3. Congestion mitigation and commerce.







Source: Arizona Department of Public Safety | Source: Vinco Fairmont | Source: Ben Wiggo



### Responder Struck-By Fatalities

In a typical year, the following number of responders are struck and killed:

- 10 Law Enforcement Officers.
- 4 Fire and Rescue Personnel.
- An estimated 40-60 Towing and Recovery Professionals.
- Several transportation professionals from DOTs, Public Works, and Safety Service Patrol Programs.





### Unknown Number of Injuries and Property Damage

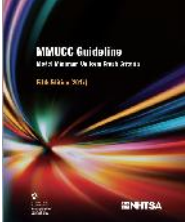




Source: Ron Moore | Source: Joseph Ross

### What Are Key Performance Measures?

-  **Secondary Crashes**
-  **Responder Struck By Incidents**
-  **Roadway Clearance Time (RCT)**
-  **Incident Clearance Time (ICT)**




As TIM programs mature, they collect more and detailed data for performance-informed planning and operations.




How do you identify responders who are struck among hundreds or thousands of pedestrian crashes?








Model Minimum Uniform Crash Criteria (MMUCC) 5<sup>th</sup> Edition



- Under the Persons data elements, **Person Type (P4)** contains an element for **“Pedestrian (P4.1)”**, **Incident Responder (P4.2)**, and if **YES**, **Type of Incident Responder**

P4. Person Type	01 Incident Responder*	01 FMS
Person Type	02 Fire	02 Fire
03	03 Police	03 Police
04	04 Tow Operator	04 Tow Operator
05	05 Transportation	05 Transportation

4 states currently have something similar – More to follow.

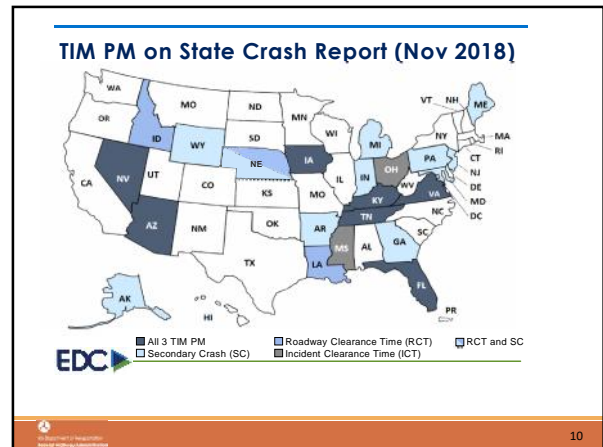


5<sup>th</sup> Edition  
Summer 2017

- Include the following data elements:
  - C2 Crash Date and Time: Roadway Cleared
  - C3 Secondary Crash: Y/N
  - NM2.1 “Working in Trafficway (Incident Response)”
  - P4.1 “Pedestrian” (Typically already present)
  - P4.2 “Incident Responder?” and
  - P4.2 “Yes, Type of Responder” with responder list
  - Time Scene Cleared (Not MMUCC, used by 1/3 states)

### Accomplishments Highlights

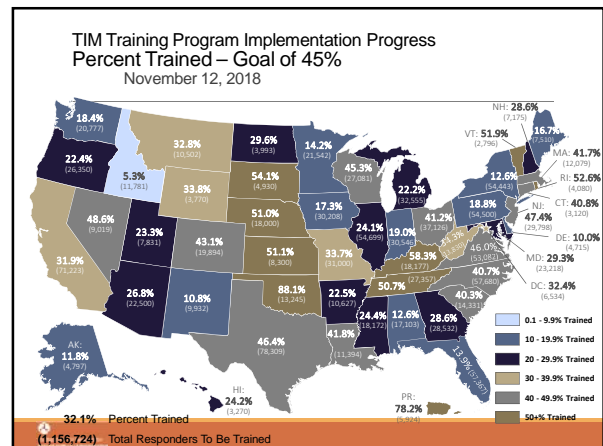
<b>Crash Reports Data Collection</b>	<ul style="list-style-type: none"> <li>Nine States now collecting at least one TIM Performance Measure in their crash reports; 10 will add measures</li> <li>Three States are training law enforcement on data collection</li> </ul>
<b>Traffic Management Center (TMC) Data Collection</b>	Six States improving TMC (training, software) data collection for TIM Performance Measures

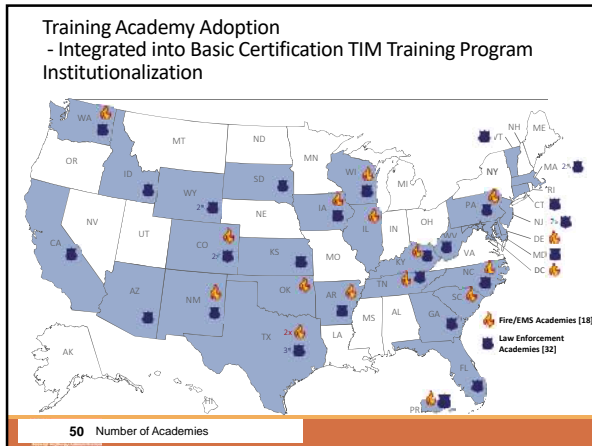


### National TIM Responder Training Program Implementation Progress - As of November 12, 2018

- Train-the-Trainer Sessions**
  - 386 sessions with 11,336 participants
  - 23% of participants have provided training
- In-Person Responder Training**
  - 13,788 sessions with 319,916 participants
- Web-Based Training (WBT)**
  - 40,362 total | 29,663 NHI | 1,610 Other
  - 9,089 ERSI Responder Safety Learning Network

**Total Trained: 371,614**





- ### TIM Training Program Institutionalization Training Academy Adoption - Integrated into Basic Certification
1. Arizona Department of Public Safety
  2. Arkansas LE Technical College
  3. Arkansas Fire Technical College
  4. Austin Texas DPS Academy
  5. California Highway Patrol
  6. Colorado State Police Academy
  7. Colorado Fire Departments
  8. Connecticut State Police
  9. New Mexico State Police
  10. New Mexico State Fire Academy
  11. Delaware Fire School
  12. Denver, CO Police Academy
  13. District of Columbia Fire/Rescue
  14. Florida Highway Patrol Academy
  15. Georgia State Police Academy
  16. Houston Police Academy (Pending)
  17. Houston Fire Academy
  18. Idaho Police Academy
  19. Illinois Fire Service
  20. Iowa, Fire Service Training Bureau
  21. Iowa LE Academy Basic Training
  22. Kansas LE Academy
  23. Kentucky Fire Commission
  24. Kentucky Law Enforcement Council
  25. Maryland State Police Academy
  26. Massachusetts State Police Academy
  27. Massachusetts Municipal Police Academy
  28. New Jersey State Police Academy
  29. New Jersey Forest Service Academy
  30. N. Carolina Fire/Rescue Academy
  31. N. Carolina State Police Academy
  32. Pennsylvania Fire Academy
  33. Pennsylvania State Patrol
  34. Puerto Rico Fire Institute
  35. Puerto Rico Law Enforcement Academy
  36. E. Oklahoma City Fire Technical College
  37. S. Carolina Fire/Rescue
  38. S. Dakota Law Enforcement Academy
  39. Texas Commission Fire Protection
  40. Texas Commission on Law Enforcement
  41. Memphis, Tennessee Fire Academy
  42. Memphis, Tennessee Police Academy
  43. Wisconsin Fire Academy (Pending)
  44. Washington State Police Academy
  45. West Virginia LE Academy
  46. Washington State Fire Academy
  47. Wisconsin State Patrol Academy
  48. Wyoming Law Enforcement Academy
  49. Wyoming Highway Patrol Academy
  50. Vermont Police Academy

### Federal Highway Administration Traffic Incident Management

The FHWA TIM Program goals are to advance safety and operations across the transportation system.

FHWA will achieve these goals by pursuing two courses of action:

- Continued focus on traditional programs such as training, program development and capacity building, and
- Taking a leadership role with emerging technologies for responders:
  - Connected and automated vehicles
  - Computer aided Dispatch
  - Data collection and use
  - Accident reconstruction and more

### Next Steps for the National TIM Program

- Developing a new TIM business case for national and State programs.
- Drafting a new 5-year Roadmap, which will:
  - Keep traditional efforts (training, self assessments, program development, use of data)
  - Incorporate advancing TIM-related technologies:
    - Connected/Automated Vehicles and Automated Driving Systems
    - Integrated Computer-Aided Dispatch
    - Unmanned Aerial Vehicles (UAVs)
    - Crowdsourcing/Big data

### The Future of TIM Nationally

- Better trained TIM Responders.
- Increase the use of data to identify needs/focus.
- Connected and Automated Vehicle opportunities.
- Increased use of practical exercise facilities.
- Statewide or Regional TIM conferences.
- Expanded use of Integrated Computer-Aided Dispatch.
- Other Emerging Technologies (e.g., UAVs, Big Data).
- Crowdsourcing for Operations – early notification.

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