

# Final Rule – 49 CFR, Part 670 Public Transportation Safety Program

October 4, 2016

Presented to: Safety & Security Committee



Greater Cleveland Regional Transit Authority



# 49 CFR, Part 670 Background

The Final Rule provides the framework for FTA to monitor, oversee and enforce transit safety, based on the methods and principles of Safety Management Systems (SMS)



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# 49 CFR, Part 670 Major Provisions

- Monitor – More data collection and SMS
- Oversee – More involved State Safety Oversight Agency (SSOA)
- Enforce – Withhold funds for non-compliant SSOAs and Agency Safety Programs



# SMS – 4 Pillars

- Safety Management Policy
- Safety Risk Management
- Safety Assurance
- Safety Promotion



# SMS – Answer 5 Questions re: Safety

- What are the serious concerns in an area?
- How do we know this?
- What are we doing about it?
- Is what we are doing working?
- How do we know what we are doing is working?



# Agency Safety Plan (49 CFR Part 673)

- Board of Directors approve the plan and any updates
- Designate an Accountable Executive ultimately responsible for Safety
- Designate a “Chief Safety Officer” who reports directly to the GM



# State Safety Oversight (49 CFR Part 674)

- Strengthens SSOA authority to investigate
- Expanded criteria for what is reported to SSOA
- FTA can impose penalties on States with non-compliant safety oversight programs



	Pre-MAP 21 (49 CFR Part 659)	Post-MAP 21 (49 CFR Part 674)
Financial and Legal Independence	None Required	SSOA is financially and legally independent from any entity it oversees
Operational Independence	None Required	Does not provide public transportation services in an area with fixed Rail Fixed Guideway (RFG)
Administrative Independence	Entity could not provide services to both the oversight agency and the transit agency it oversees	Does not employ any individual who is responsible for administration of RFG
Oversight Agency Authority	Varied from state to state	Authority to review, approve, oversee, and enforce the implementation by the RFG agency of the Agency Safety Plan
Investigative and Enforcement Authority	Varied from state to state	Has investigative and enforcement authority with respect to the safety of RFG public transportation systems of the eligible State.
Triennial Auditing	On-site reviews at least every 3 years	Wording change for “review” to “audit”
Annual Reporting	Annual certification of compliance submitted to FTA	Provides a status report on the safety of RFG system to the FTA, Gov. of State, and Board of Directors





Questions?



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# E-TRP Update

## USDOT Connected Vehicle Research Program

October, 2016



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## Concept

The Enhanced Transit Safety Retrofit Package (E-TRP) is 2-year project awarded by the FTA to Battelle and GCRTA

The project is being undertaken to SAVE LIVES

- Secondary goal is to Create a “Connected Vehicle” environment



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## Logistics of E-TRP

- 5-10 intersections (approx.)
- 91 Buses
- Operator Focus Groups (Saving lives only happens with detailed Operator feedback)



## Two Ways to Save Lives

Project 1 involves...

- V2I technology to prevent collisions with pedestrians that are in/near intersections and in crosswalks
- V2V technology to warn buses being “cut off”
- Installation of back-up cameras



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## Two Ways to Save Lives (Cont'd)

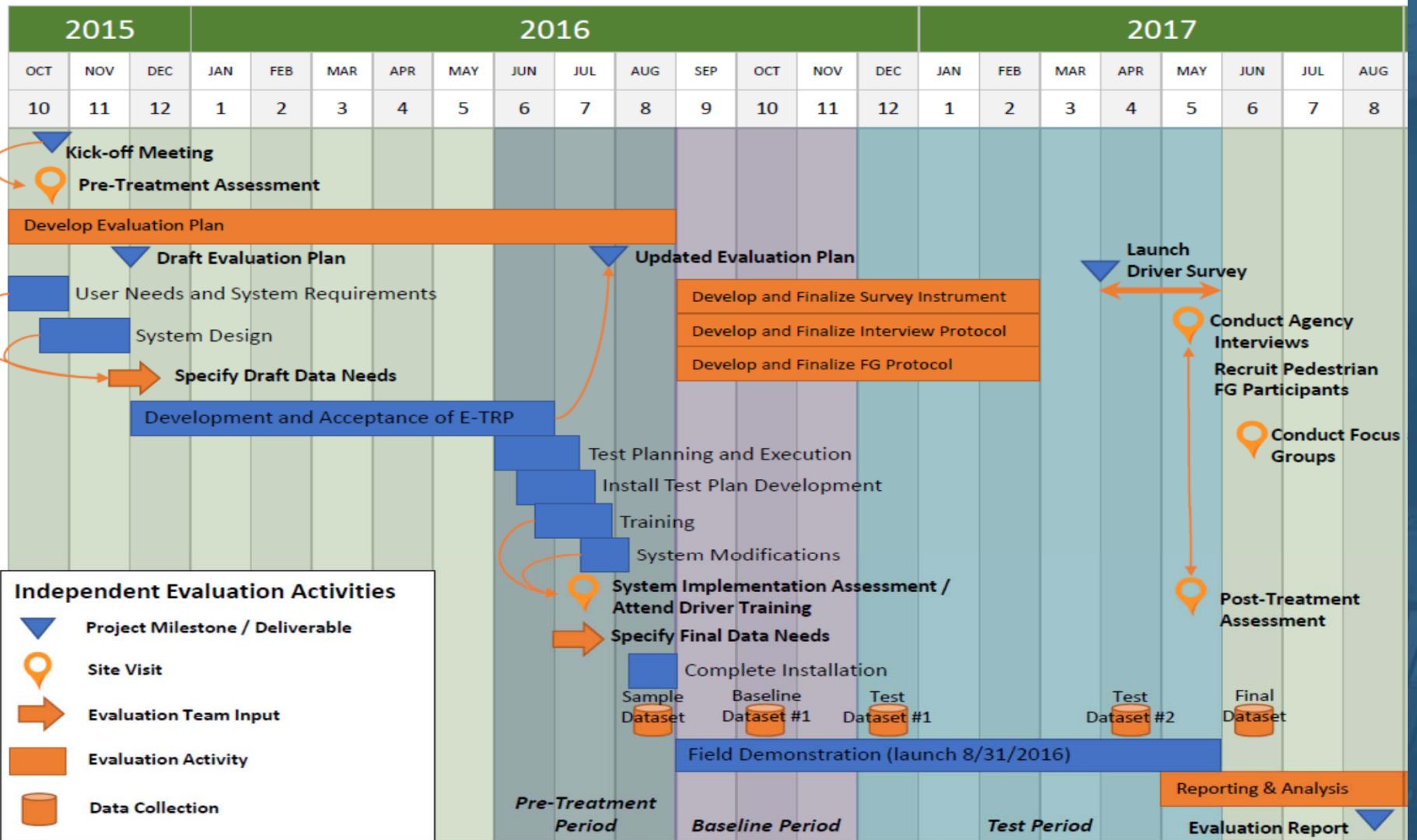
Project 2 involves...

- Alerting customers at Bus Stops/Transit Hubs of approaching and exiting buses
- This portion is known as “Transit Bus Stop Pedestrian Warning”



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## Latest News

- 1<sup>st</sup> Pilot Bus outfitted by Battelle week of 9/26/16
- Wi-fi to be installed in Triskett and Hayden for automatic data upload
- City of Cleveland Traffic Engineering meeting with Battelle on 10/12/16.





## Early 2017

- First 6 pilot buses on road for active testing
- Use Harvard for testing of VPoL technology



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Questions?



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# FTA Safety Advisory 14-2 Update

## Verification of Rail Vehicle Safe Stopping Distances in Terminal Stations

October, 2016



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# Bumping Post Update

- Our Trains are safe
- Train rehabs can affect calculations
- Our calculations are based on “crush loads”



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# Bumping Post Update

- Upgrade Airport, Warrensville-Van Aken, and Tower City
- Transfer current bumping post from Airport to Green Rd.



## Bumping Post Update (cont'd)

- Study already has been completed
- Funds already encumbered
- IFB to be put out before end of 2016



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Questions?



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