

Enhanced Transit Safety Retrofit Package (E-TRP)

Safety & Security Committee

December 1, 2015

Greater Cleveland Regional Transit Authority



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

Logistics of E-TRP

5-10 intersections (approx)

80-100 Buses

Operator Focus Groups (Saving lives only happens with detailed Operator feedback)

Two Ways to Save Lives

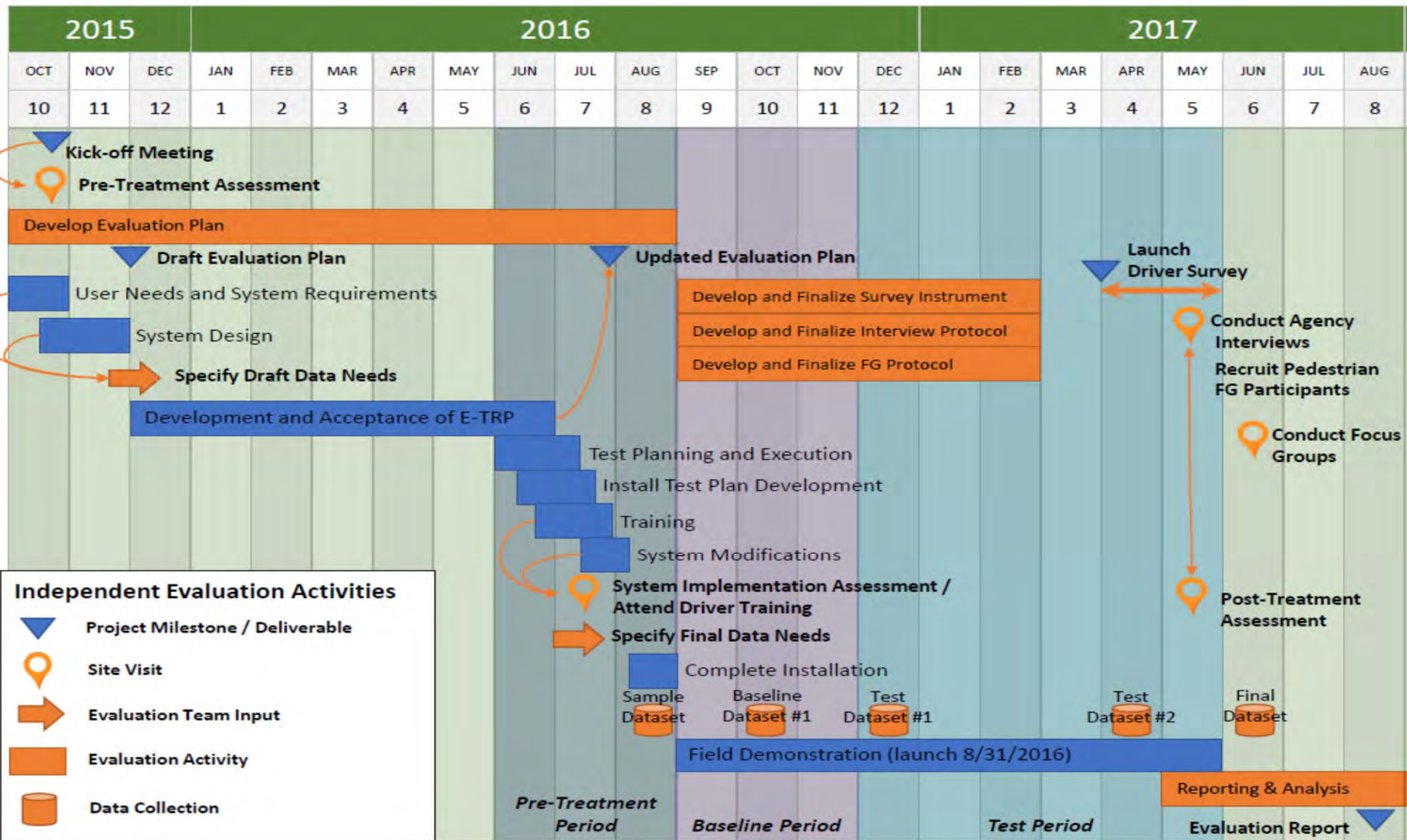
Project 1 involves...

- 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

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 know as “Transit Bus Stop Pedestrian Warning”



Benefits of E-TRP

Saving lives and helping to lower RTAs
Preventable Collision Rate

Help Bus Operators be more alert, especially
during adverse weather and at night

A program for others to follow. MTA has already
adopted our Safe Turn Alert (STA) system.



Questions?

Greater Cleveland Regional Transit Authority



DRIVECAM

RTA Mission:

**To Provide
Safe, Reliable, Clean, and Courteous
Public Transportation**

Greater Cleveland Regional Transit Authority



DriveCam Implementation

- Partnership with Lytx, Inc. since 2012
- Pilot Program: 2012/2013
- Full-fleet Implementation
 - Bus Fleet (500± vehicles): July 1, 2014
 - Rail (HRV, LRV): (70± vehicles): November 2014

FULL TEAM EFFORT: ONE RTA

DriveCam Implementation

Coaching, Recognition,
Improvement:

- Multiple methods of coaching: letters, face to face, mobile/field, multiple behaviors
- Weekly calls/communication with Lytx Client Management Team



DriveCam Implementation

Coaching, Recognition, Improvement:

- Monthly calls with other public sector clients for best practices
- Quarterly Operator Recognition Breakfast/Luncheons
- Quarterly Program Reviews

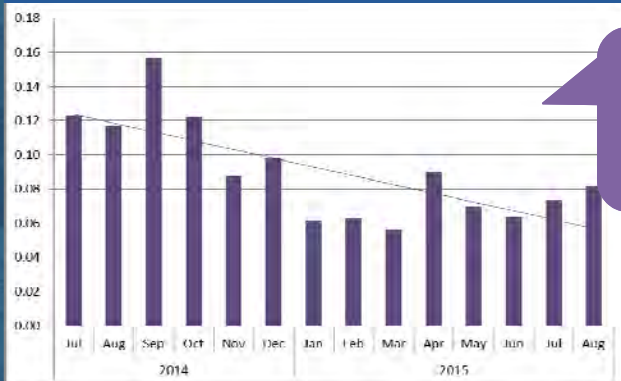


Successes



Results

Following Too Close (<3 sec)



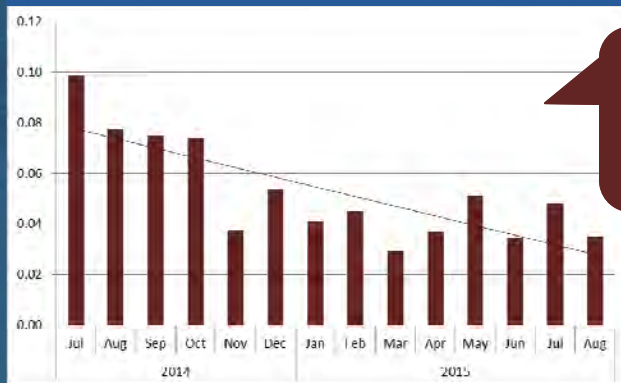
45%
Improvement
Jul-Sep'14 to
Jun-Aug'15

Posted Speed Violations



60%
Improvement
Jul-Sep'14 to
Jun-Aug'15

Driver Unbelted (All)



53%
Improvement
Jul-Sep'14 to
Jun-Aug'15

Red Light Violations

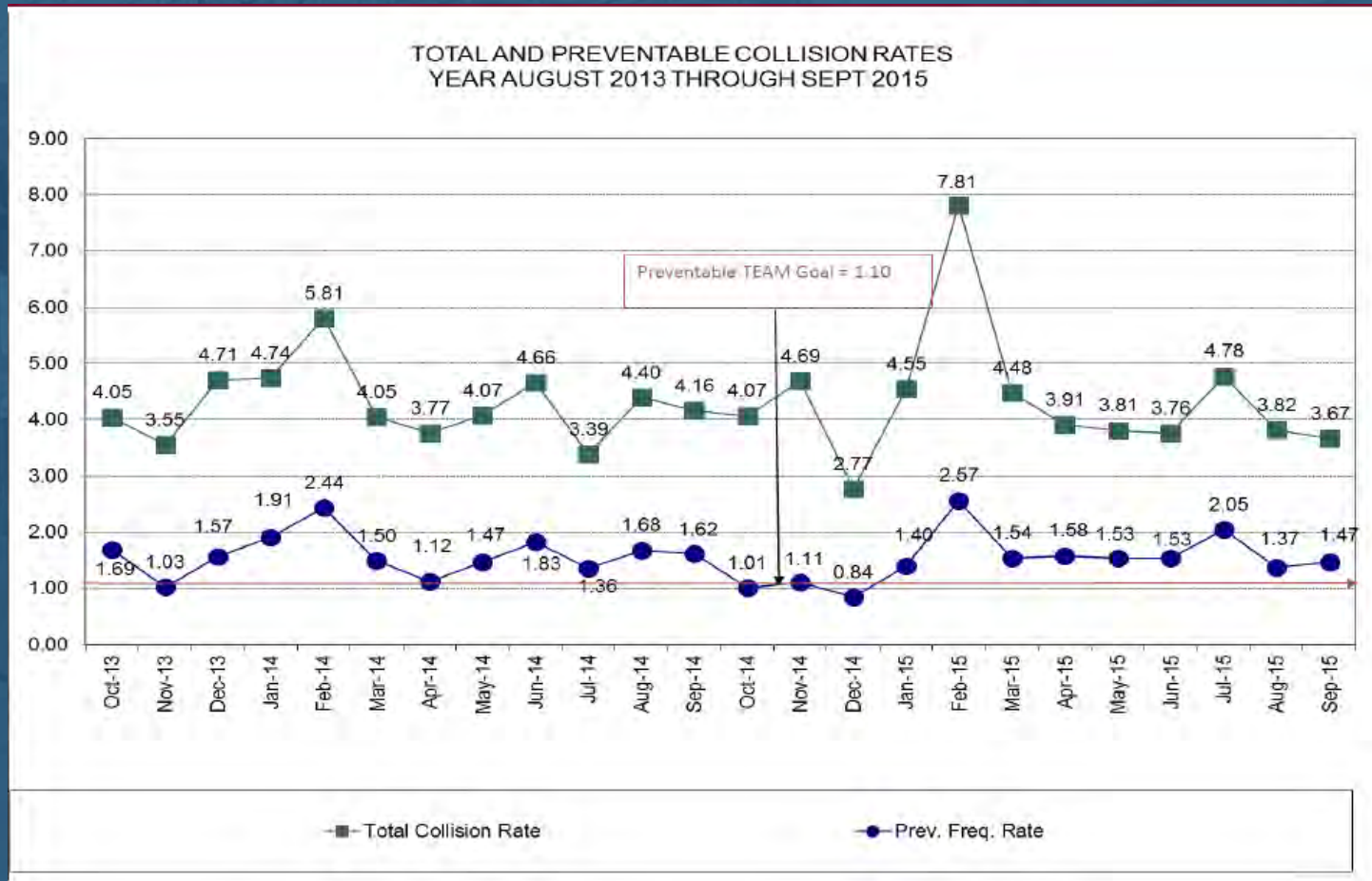


55%
Improvement
Jul-Sep'14 to
Jun-Aug'15



*Bar charts show Events normalized by # of Active ERs per Month

Results



Future Plans

- Continued Implementation of Rail
- Coaching Model Enhancements
- More Positive Recognition



Questions?

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