



Vehicle Technology Tools

Increasing Safety

**Presented at CALACT Fall Conference
November 12-15, 2018 - Napa CA**

Agenda

- Introductions
- Expected Outcome
- Overview
- Why Electronic Inspections
- Most Useful Features
- Questions

Marc Ellison

- 32 years in the automotive business
 - 17 at Ford Motor Company (Dearborn, MI / field)
 - 15 at InterMotive / LGS Group
- Director at InterMotive
- VP of Sales & Marketing at LGS Group
- Presenter at numerous conferences and events

mellison@intermotive.net

530-823-1048 x 102

Dr. Michael St. Denis

- 30+ years in the automotive business
- Former Engineer at Ford Motor Company
- Principal at Revecorp, a data and engineering company
- Extensive work with the state and federal government on vehicle emissions and safety standards and testing

michael@revecorp.com

916-786-1006

Expected Outcome

To provide each attendee with actionable information from the slide presentation, questions and handouts to be used when considering pre-trip, post-trip and maintenance safety inspection solutions.

Overview

- Why electronic Pre-Trips, Post-Trips, Driver Swaps and Maintenance inspections?
- What inspection system features are the most useful?
- Collect vehicle, driver, location and inspection data together
- Use and management of the data

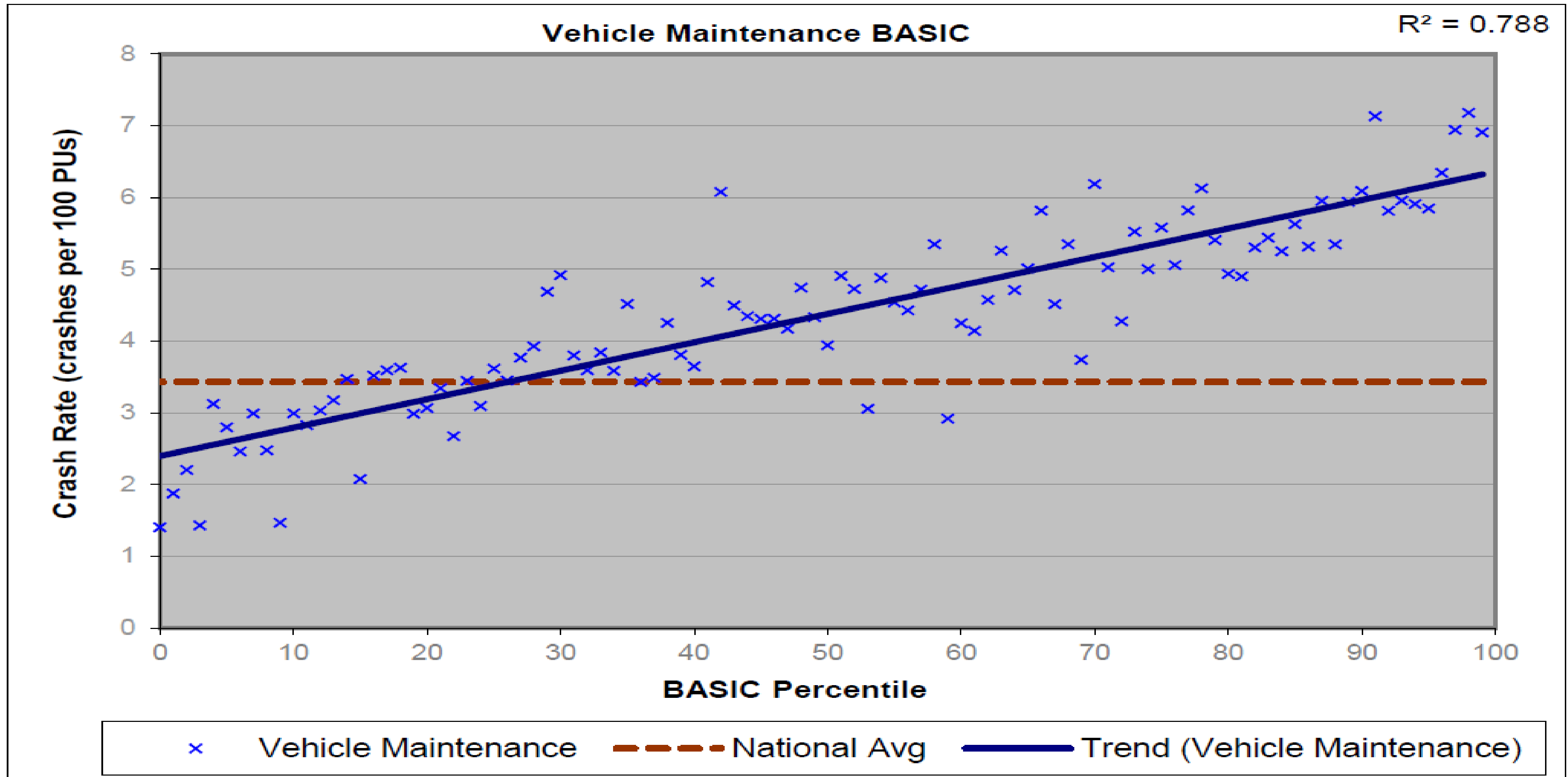
**Is an electronic inspection
system right for everyone?**

**Show of hands... Who here has an
electronic inspection system?**

**If you do inspections on paper,
what is that costing you, to get
filled out forms - as opposed to
actionable data?**

**Why would you want an
electronic pre/post-trip, driver
swap and maintenance
inspections?**

FMCSA data shows well maintained vehicles are much safer



Why electronic inspections?

A good inspection software solution will:

- Create confidence that an inspection is performed thoroughly and properly
 - Was it done? When? By Whom? How long did it take?
 - Was everything truly inspected?
 - Could lower insurance costs
 - Can protect drivers if something happens
 - Vehicles do not leave the yard with failures
- Require less training and drive more consistently performed inspections

Why electronic inspections?

Does the solution:

- Get data into the maintenance queue quickly?
 - Can be tracked for CHP inspections
 - CCC – Concern, Cause, Correction – cradle to grave
- Have an OBD II interface to speed up the process?
 - Automatically collect VIN, fuel level and odometer
 - Automatically cycle lights
- Less expensive than paper!
- Generate digital data?
 - Triggers automatically set against the data
 - Easy to analyze

What inspection system features are the most useful?

Can it be deployed quickly, easily and inexpensively?

- No hardware to be installed/maintained on the vehicle
- Minimal inspector training
- Standard data analysis tools (reports, filters, etc.)

Management Features

Is the system managed through a simple web portal, accessible from anywhere?

- User can customize inspections process at any time themselves – the inspection process is not static
- Customize inspections by vehicle, vehicle type, inspection type
- Set your own pass/fail/warn logic and criteria
- Should be about access to data, control access and reports

An Ideal System Should...

- Document issues with pictures, video and/or written comments during the inspection
- Allow the order of responses to be randomized
- Collect where the driver was when they checked each item
- Calculate the distance traveled and the time to inspect each item
- Show where your vehicles are on a map (track vehicles)
- Allow you to own your data!
 - You should be able to access or download it at any time
 - Even after your contract expires, at minimal cost

Tablet Features

Does the system require you to use a particular tablet?

- Can you buy your own hardware?
- Can you use existing hardware?
- Is a “hardened” tablet, mounting solution, etc. available?
- Is the tablet tied to the vehicle or can any tablet be used by any driver on any vehicle?
- Can the tablet be used for other purposes (e.g., routing, maps, etc.), or is its operation locked?

Maintenance and Data Sharing

Does it provide a simple maintenance tracking solution integrated into the inspection software?

- Do failures get instantly transmitted for repair?
- Can you track failures from the driver identifying them, to correction and the vehicle going back in service?

Does it interface with other technologies? Provide APIs?

- Get vehicle, driver data?
- Export maintenance data?

Features Summary

- You have to measure safety - to manage safety
- There should be real reliability and safety benefits as you learn what is working and what is not
- The system should save cost over paper to operate
- The drivers and maintenance staff will both appreciate knowing each other is being helpful
- Audits should be easier

A handout with a list of ideal features is available.

Questions

InterMotive

12840 Earhart Ave.

Auburn, CA 95602

530-823-1048

www.InterMotive.net

Revecorp, Inc.

5732 Lonetree Blvd

Rocklin, CA 95765

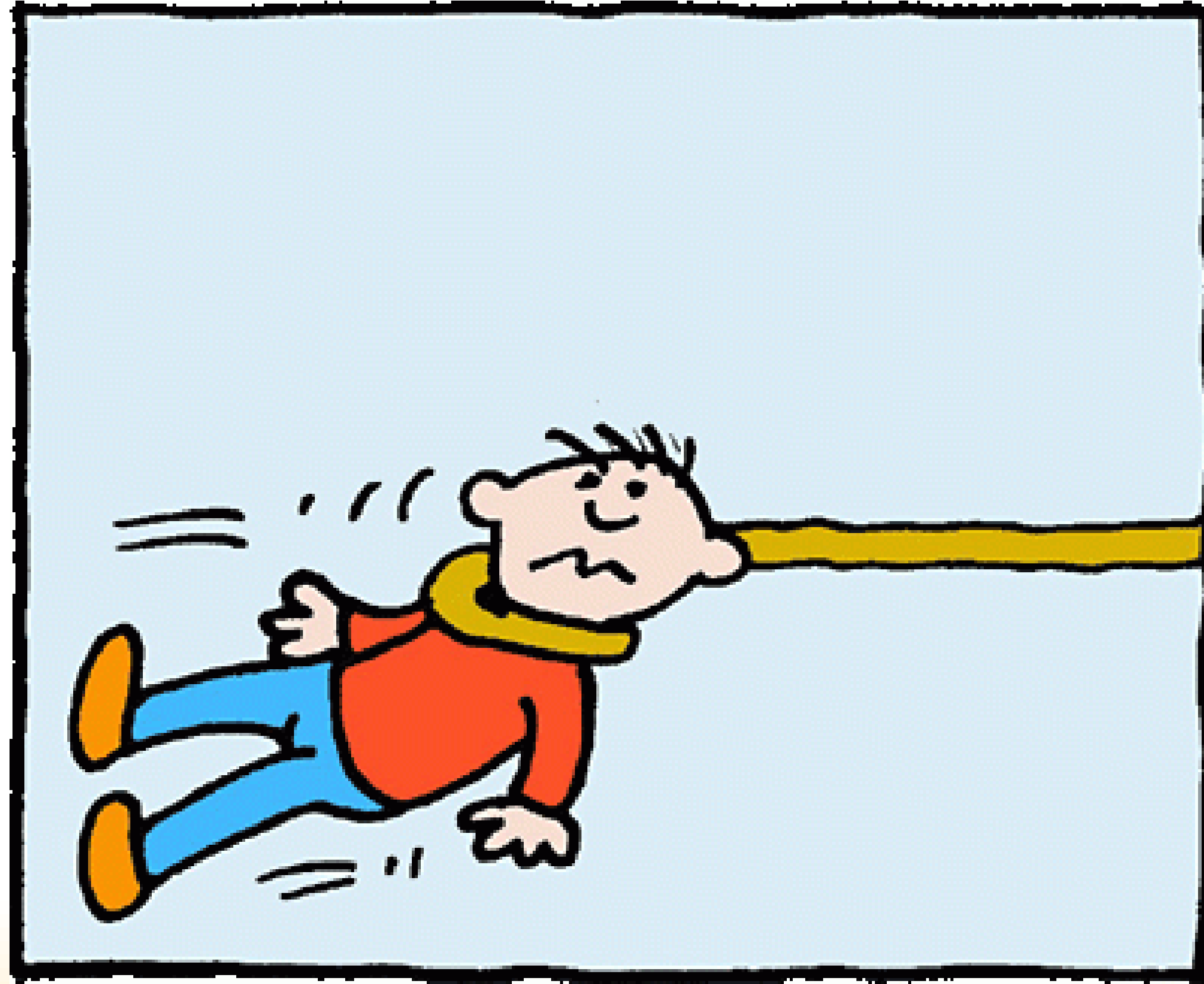
916-786-1006

www.revecorp.com

Agenda

- Introductions
- Expected Outcome
- Overview
- Why Electronic Inspections
- Most Useful Features
- Questions





Thank You