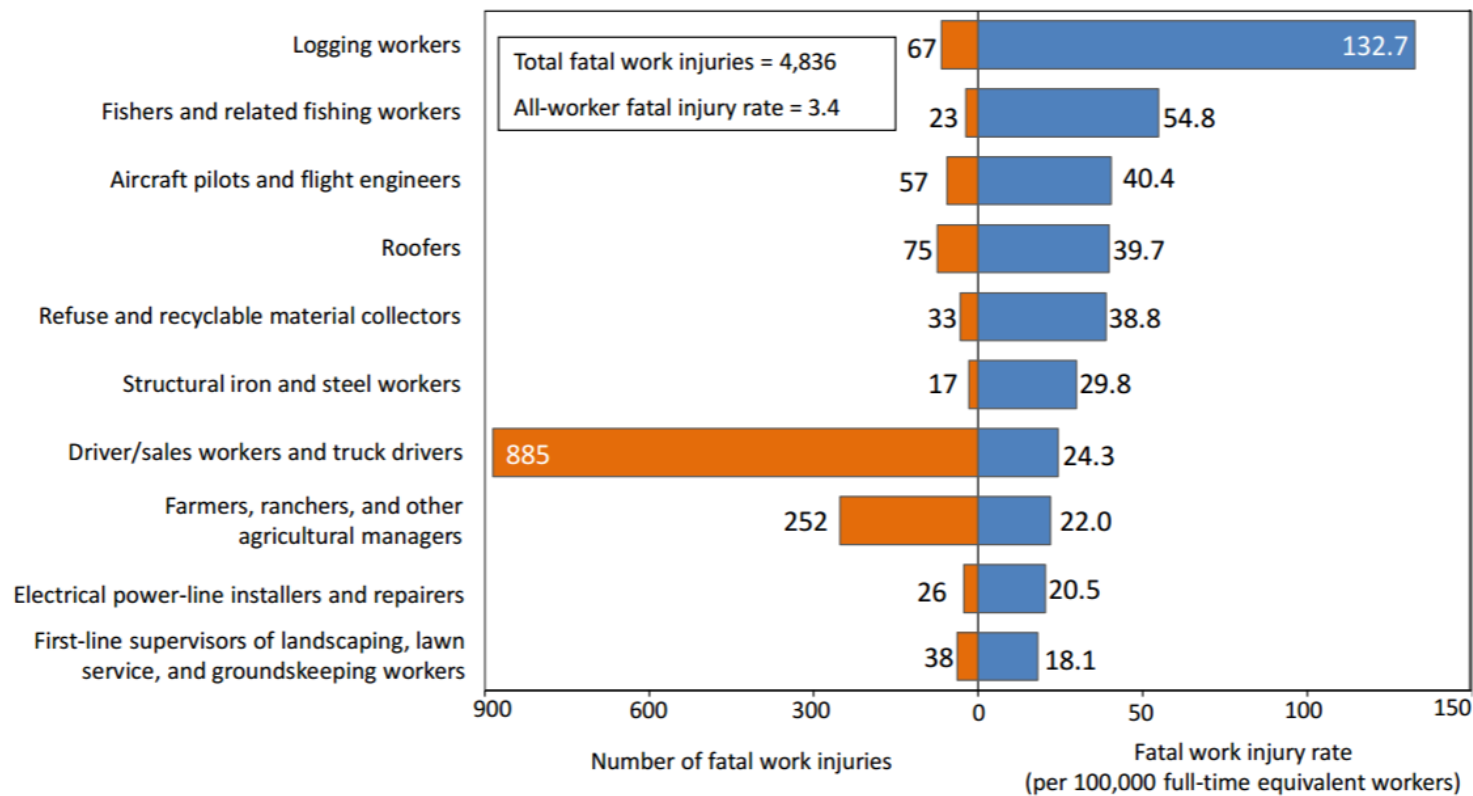# Developing Smarter, Safer Drivers
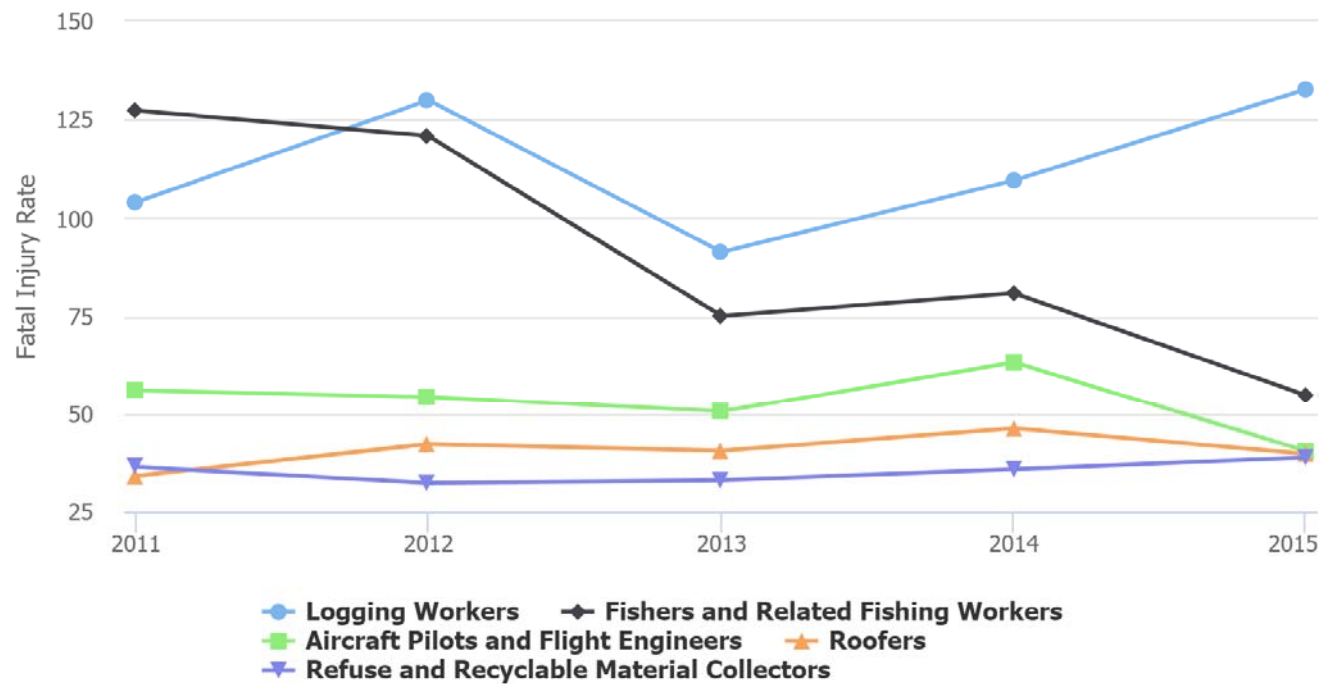
Tools for Educating, Monitoring and Coaching Drivers for Optimal Safety

Civilian occupations with high fatal work injury rates, 2015

Occupation	Number of fatal work injuries	Fatal work injury rate
Logging workers	67	132.7
Fishers and related fishing workers	23	54.8
Aircraft pilots and flight engineers	57	40.4
Roofers	75	39.7
Refuse and recyclable material collectors	33	38.8
Structural iron and steel workers	17	29.8
Driver/sales workers and truck drivers	885	24.3
Farmers, ranchers, and other agricultural managers	252	22.0
Electrical power-line installers and repairers	26	20.5
First-line supervisors of landscaping, lawn service, and groundskeeping workers	38	18.1

Total fatal work injuries = 4,836
All-worker fatal injury rate = 3.4

Number of fatal work injuries

Fatal work injury rate
(per 100,000 full-time equivalent workers)

Fatal Injury Rates for Top 5 Sectors (2011-2015)

The 3rd Most Dangerous Job?

"If you compare the last two or three years, the fatal injury rate for third and fourth most dangerous jobs are declining," he says. "If current trends, hold, we are likely to be the third most dangerous job when the 2016 data comes out."

David Biderman

Solid Waste Association of North America

Executive Director and CEO

Safety is a Big Deal

Every year, an estimated 20 percent of all fleet vehicles are involved in accidents.

- People safety is paramount

- Direct and indirect costs of accidents can be tremendous

- Risks need to be mitigated wherever possible

Influencing driver behavior is the key.

Influencing Driver Behavior

4 steps to smarter, safer drivers:

1. Identify high risk drivers

2. Coach and incent safer behavior

3. Monitor and reinforce constantly

4. Ensure accident response management process

For this to be effective, fleet managers need the right tools.

The Right Tools - Fleet Managers

Fleet managers need:

- 360˚ views into truck and driver behavior

- Centralized fleet safety data/dashboard

- Fleet tracking, reports and alarms

The Right Tools – Drivers

Drivers need:

- Less distraction
- Real-time, hands-free directions
- Real-time, hands-free communications
- Round-the-truck views
- Driving alerts

Onboard Computer / Smart Display

Dispatch and Back Office Reporting

A connected smart truck solution provides these tools.

Mobile DVRs

Record live digital video and all essential waste fleet management activities.

Safety Cameras

- Capture video of all internal and external activities from all angles.

- Identify any driver-related safety issues for rapid remediation.

- Capture evidence for accident and dispute resolution.

- Eliminate blind spot areas for a complete round-the-truck view.
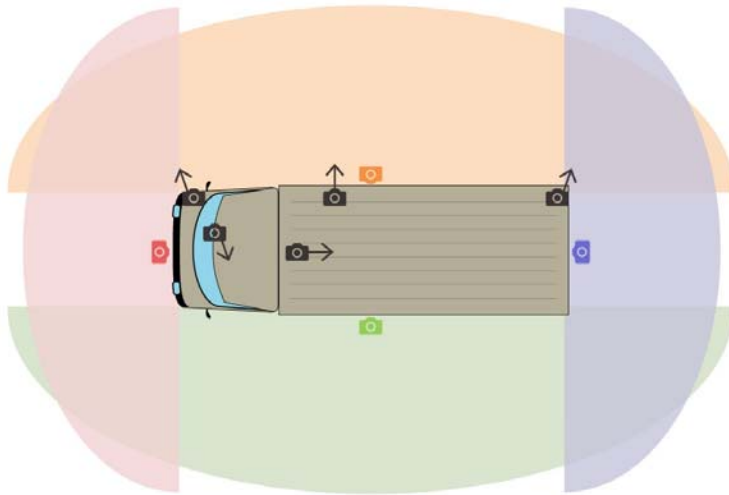
Digital Dashboards – Benefits

- Identify and solve problems faster

- Improve operational efficiency

- Meet your goals

- Make better informed decisions

- Align your organization

- Spot costly and unsafe driver maneuvers

Safety Dashboards

You can track:

- Incidents

- Alarms

- Driver Scoring

- Video streaming and playback

Benefits:

- Spot costly and unsafe driver maneuvers

- Know how your vehicles are being handled

- Plot location of alarm occurrences

- Access supervisor, driver, sensor and server recorded incidents

- Determine which drivers generated alarms and where

- Replay selected vehicles, surroundings and driver's activities
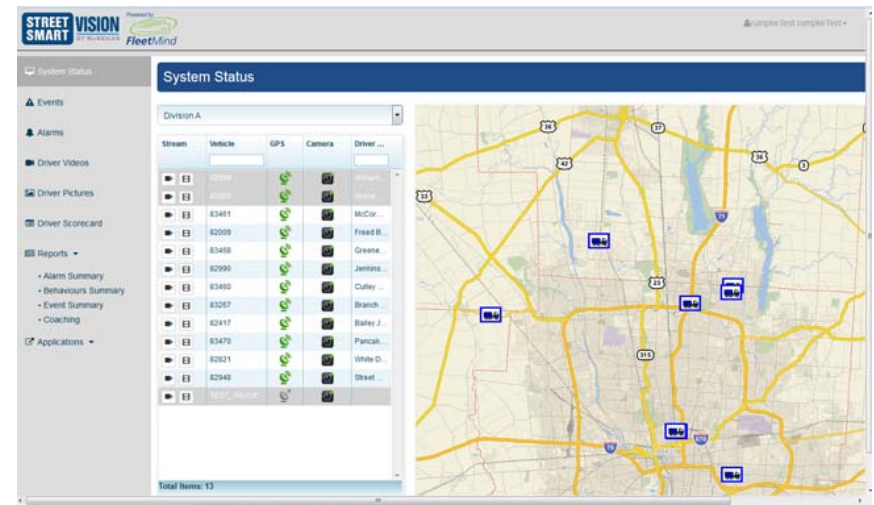
Driver Scoring and Monitoring

- Give constructive feedback to drivers

- Reward safe driving behavior

- Provide coaching for any unsafe activity

Driver activity can be monitored easily and immediately, and accurate data can be readily captured to deal with any driving incidents.
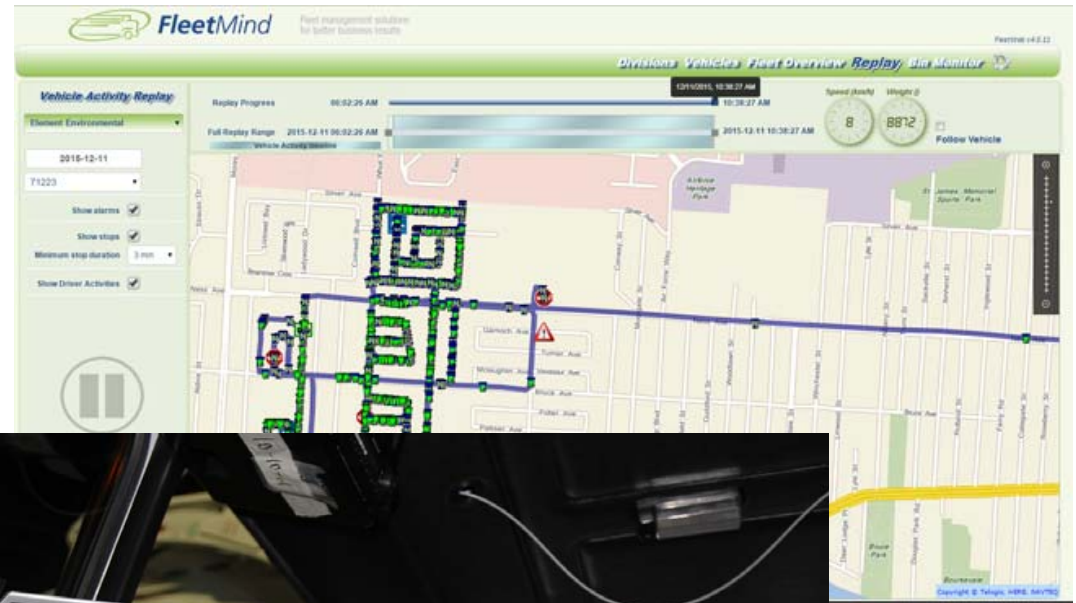
Driver Direction

- Automatic driver directions

- Automatically re-calculates routes

- Directions provided audibly and automatically

- Reduces driver distractions

Fleet Tracking Tools

You can track:

- Vehicle activity and alarms

- Route progress

- Speed limits

- Alarms and incidents

- Vehicle stops

- Driver activities

- Driver notes and photos

Vehicle Maintenance Reporting

- Fuel Consumption

- Fleet Performance

- Vehicle Alarms

- Fuel Tax

- Vehicle usage

Benefits:

- Optimize maintenance procedures

- Refer to service logs for up to a month prior

- Know vehicles' status and anticipate maintenance

- Spot service anomalies over time

Accident Management

- Record detailed information

- Track incidents and alarms

- Accurate data improves time and costs associated with accident administration

- Photo/video recordings can help exonerate drivers

Driver Alarms

Start Date 10/1/2013   End Date 10/31/2013
Divisions (all)   Line of Business (all)   Alarm Type Hard Braking over 55 MPH,   View Report
Export in : Pdf   Csv

Driver	# Alarms	Duration	Dist. Alarms (Mi)	Total Dist. Driven (Mi)
-HELPER, JOSE	17	00:02:19	0.00	1632.34
ALEXANDER JR, DONALD	6	00:00:38	0.00	2427.32
DALE, LENNY	37	00:10:50	0.00	824.99

Export in : Pdf   Csv

Drag a column header here to group by that column

Division	Vehicle	Name	Date	Hour	Duration	Distance
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	6:29:19 AM	00:00:06	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	6:30:20 AM	00:00:06	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	7:01:09 AM	00:00:05	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	7:04:15 AM	00:00:05	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	7:10:55 AM	00:00:06	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	7:11:26 AM	00:00:06	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	7:56:34 AM	00:00:06	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	8:01:20 AM	00:00:05	0.00
Albion	HS-4290	Speeding Over 65MPH	10/3/2013	8:01:46 AM	00:00:15	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	8:03:28 AM	00:00:05	0.00
Albion	HS-4290	Hard Braking over 55 MPH	10/3/2013	10:45:08 AM	00:00:07	0.00
Albion	HS-4290	Speeding Over 65MPH	10/3/2013	10:54:38 AM	00:01:03	0.00

Kimble Recycling & Disposal – Optimizing Safety

Deployed connected smart truck system to:

- View all driving activity

- Minimize unsafe driving habits

- Respond more effectively to complaints

All departments now have access to:

- Centralized fleet safety data & fleet safety performance.

- Daily route reconstruction for any driver

As a result, Kimble can now:

- Determine how their vehicles are being handled

- Monitor driver speed and alarm occurrences.

- Provide drivers with greater visibility when backing up

Knight Waste Services – Improved Safety Operations

- Monitors drivers in real-time to ensure adherence to expected guidelines and behaviors.

- Collects image-based evidence with real-time video feed and archive/playback capability for incident investigations.

- By making accident investigation more accountable and accurate, the system has already saved Knight thousands of dollars in potential claims and dozens of man-hours in investigation.

- Enables better driver coaching by allow remote viewing of problematic behaviors for timely intervention and remediation.

Knight's Waste Services, Fort Worth, TX

Questions?

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