



Annual Workplace Safety and Health Conference

Optimizing Driver Safety and Fleet Management



How to Successfully Implement an IVMS Program and Manage Your Fleet in Real Time

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The Cost of Vehicle Accidents

- Network of Employers for Traffic Safety (NETS) Estimates Crashes Cost Employers \$47.4 Billion in 2013.
- According to the National Transportation Safety Board (NTSB), the average cost of a motor vehicle incident to employers:
 - \$24,000/crash
 - \$128,000/injury
 - \$3,800,000/fatality

<https://ohsonline.com/articles/2016/03/04/nets-traffic-crashes.aspx>
<http://trafficsafety.org/wp-content/uploads/2016/03/NETS-CostOfCrashes-Report-2015.pdf>



Why Do We Wreck?

Contributing Factors in Fatality Crashes, 2014:

1. Speeding (28 percent)
2. Alcohol (31 percent)
3. Internal distraction (11 percent)

<http://www.ihs.org/ihs/topics/t/general-statistics/fatalityfacts/overview-of-fatality-facts/2014NHSTA> - National Motor Vehicle Crash Causation Survey DOT HS 811 059
<http://www.ghsa.org/html/issues/distraction/index.html>

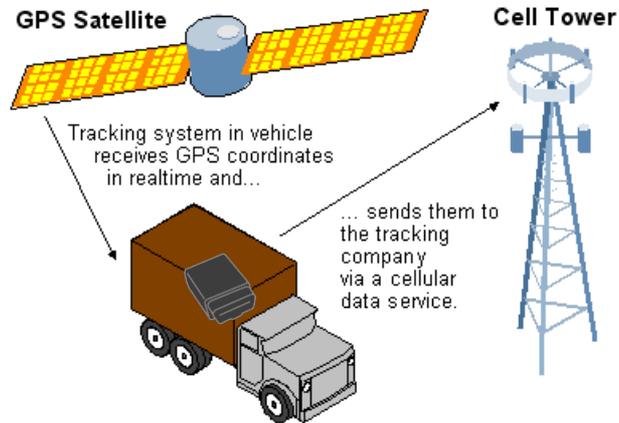


About IVMS

- In-vehicle monitoring system (IVMS) is technology that records data.
- IMVS can be as simple as vehicle location or as advanced as monitoring driver behavior and engine diagnostics.
- The right IVMS programs can save significant amounts of money.
- IVMS is a tool for real-time feedback.



How Does IVMS Work?



What Kind of Information Does IVMS Capture?

1. Location
2. Speed
3. Hard Braking
4. Rapid Acceleration
5. Lateral Acceleration
6. Seatbelt usage
7. Idling
8. Diagnostics
9. Odometer
10. Fuel Economy
11. Engine Hours
12. VIN

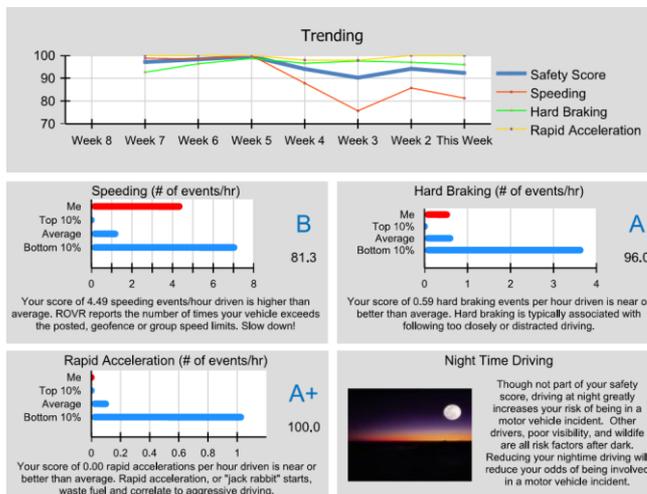


How Can You Use That Information?

- Safety
- Security
- Efficiency



Scorecards

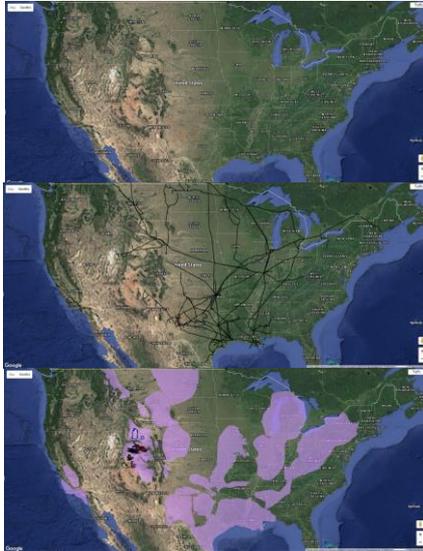


When your vehicle is idling, your fuel efficiency is exactly 0 mpg. While there are times when idling is necessary, excessive idling wastes fuel and causes unnecessary engine wear.

Idling Cost
\$61.08



GIS - Layering/Geofences

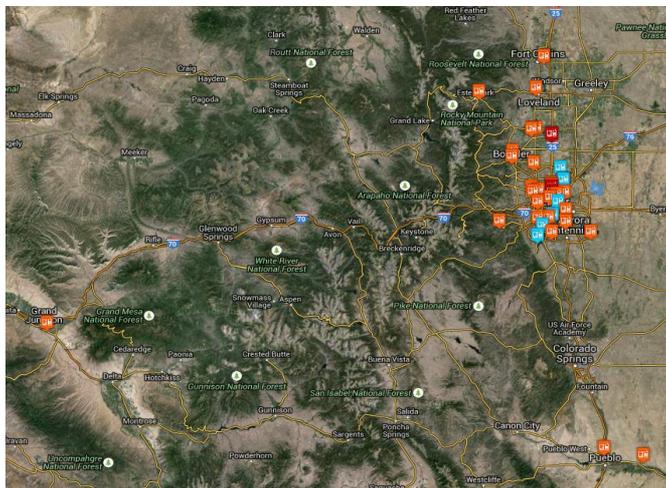


Visually Know Locations of:

- People
- Physical assets
- Things



Better Customer Service



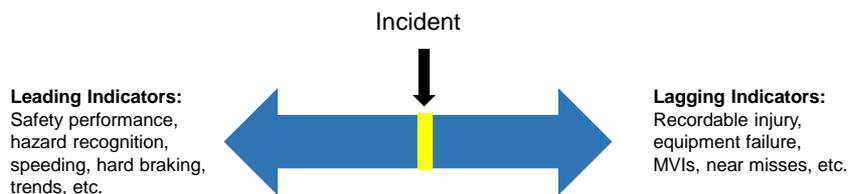
Program Management Is Key

- The program must be transparent.
- Drivers must have a form of feedback.
- Communicate clearly why change is needed.
- Set clear, attainable expectations.



What to Do with the Info?

1. Capture; then
2. ACT!



ACT! So You Achieve

1. 49 percent – 93 percent reduction in MVIs
2. Reduce speeding events by 60 percent
3. Decrease at-risk behavior
4. Reduce fuel costs and environmental impact
5. Reduce maintenance costs
6. Decrease insurance premiums

Implementing an In-Vehicle Monitoring Program: A Guide for the Oil and Gas Extraction Industry
NIOSH
National Highway Transportation Safety Administration
Cartasite Case Studies

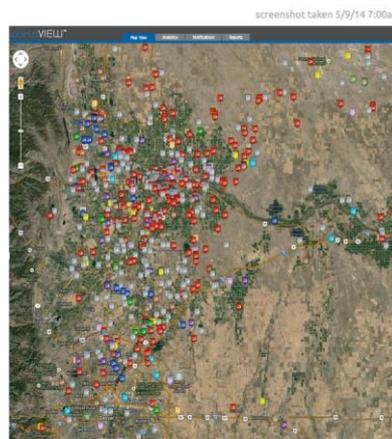


Weld County Success

In every active O&G market in North America, traffic fatalities have soared in recent years except for Weld County.

Weld **DOWN 25%** while logging a record number of permits in 2013

ND up 350%
Marcellus up 42%
TX up 76%



Questions



Need More Info?



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