

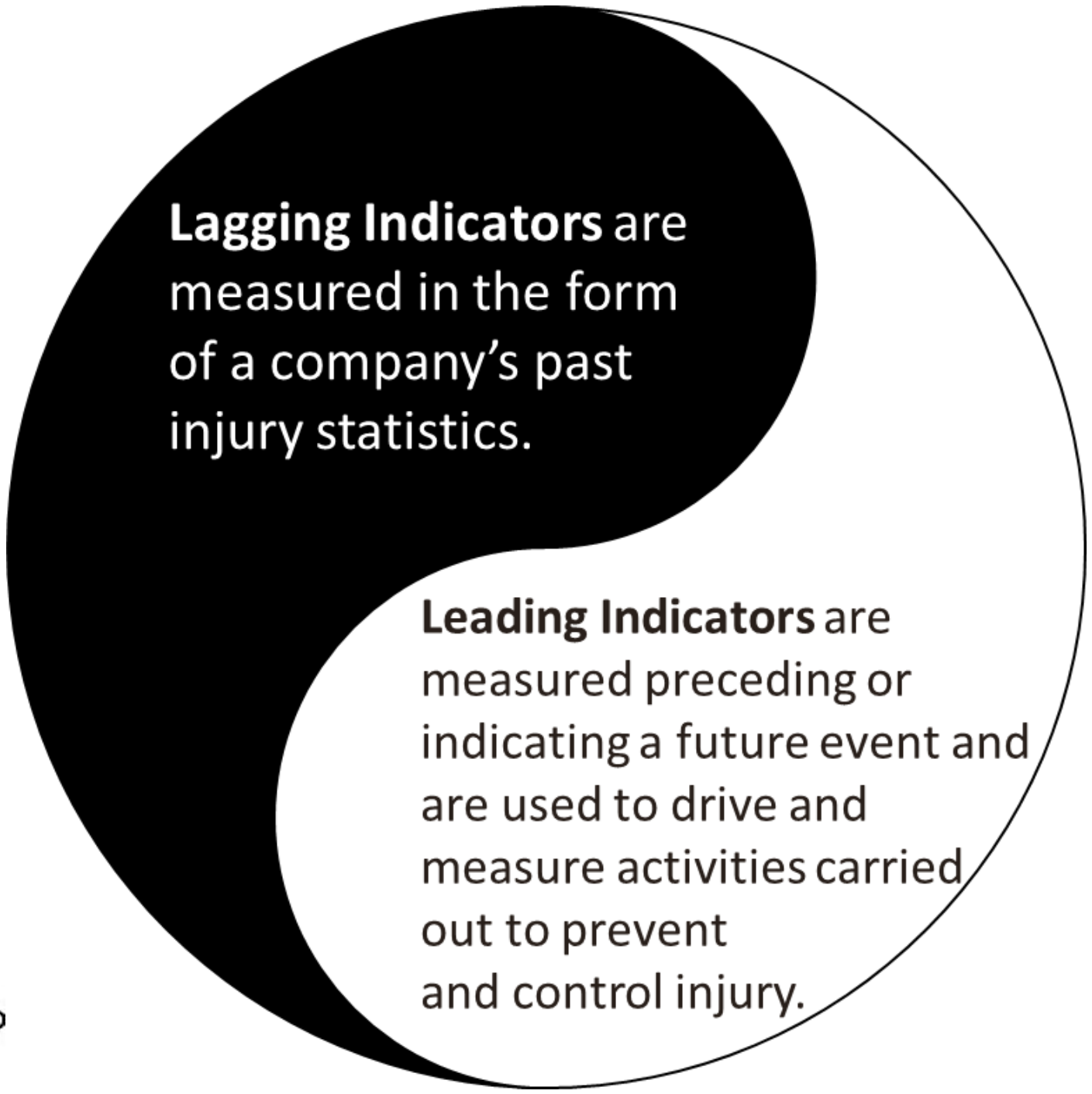
# Harnessing Leading Indicator Data for Sustainable Safety Excellence



## HILE GROUP

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Margaret Davis, Vice President  
Presented at WEDA Dredging Summit & Expo  
Chicago, IL  
June 6, 2019



**Lagging Indicators** are measured in the form of a company's past injury statistics.

**Leading Indicators** are measured preceding or indicating a future event and are used to drive and measure activities carried out to prevent and control injury.

# Types of Leading Indicators



## Operations-based

*Relevant to the functioning of an organization's infrastructure (e.g. machinery, operations); potentially site-specific*



## Systems-based

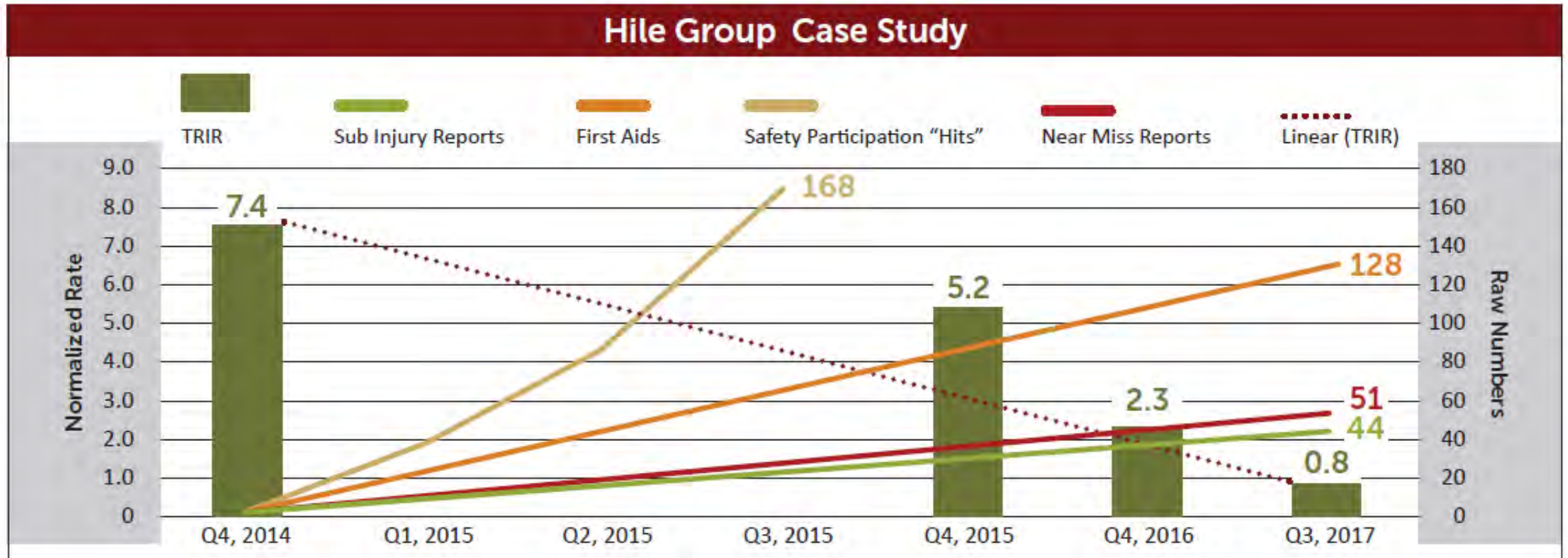
*Relate more to the management of an EHS system; can be rolled up from a facility level to a region/business unit or corporate level*



## Behavior-based

*Measure the behavior or actions of individuals or groups in the workplace; people-to-people interactions related to supervision and management*

# Lagging/Leading Inverse Correlation



# Dredging Safety Dashboard Excerpt

## REACTIVE INCIDENTS

**3**  
OSHA  
RECORDABLE

**201**

  
LOST TIME

RESTRICTED DUTY

  
MEDICAL ONLY

**16**   
FIRST AID

2018

## PROACTIVE MEASURES

**307**  
GOOD CATCHES

**33**  
NEAR MISSES

2019

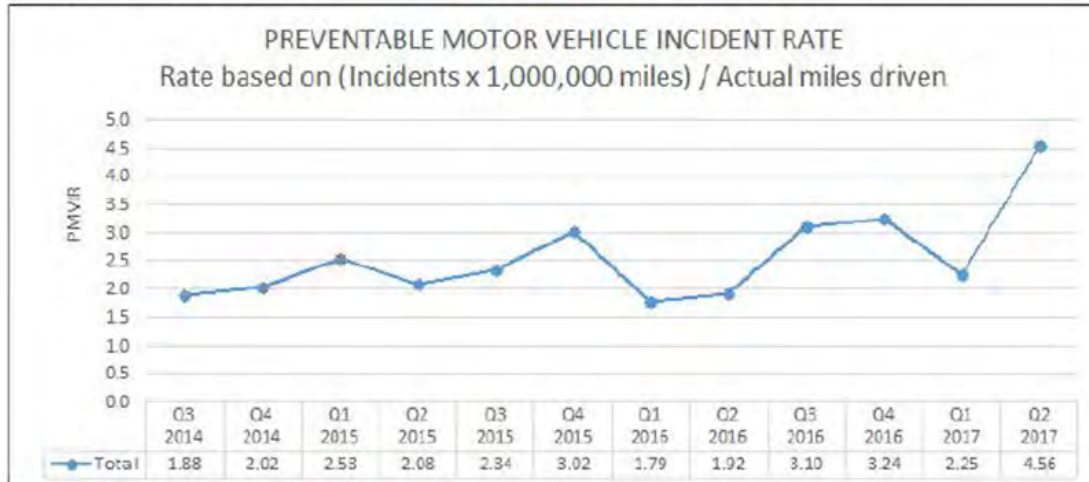
**417**  
GOOD CATCHES

**21**  
NEAR MISSES

# Next Level Leading Indicator Tracking/Trending

## Motor Vehicle Trends

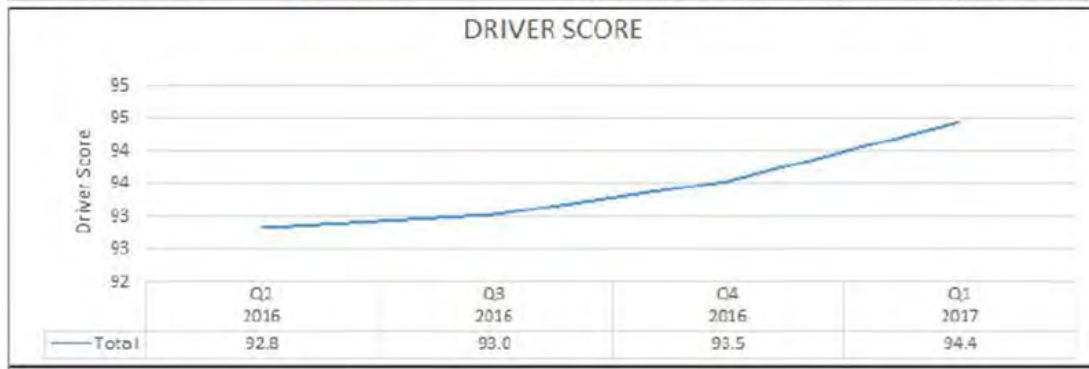
[PMVI Log](#)



## Geotab Trends

[Geotab Login](#)

(note: Geotab info cannot be sliced by Service Line)



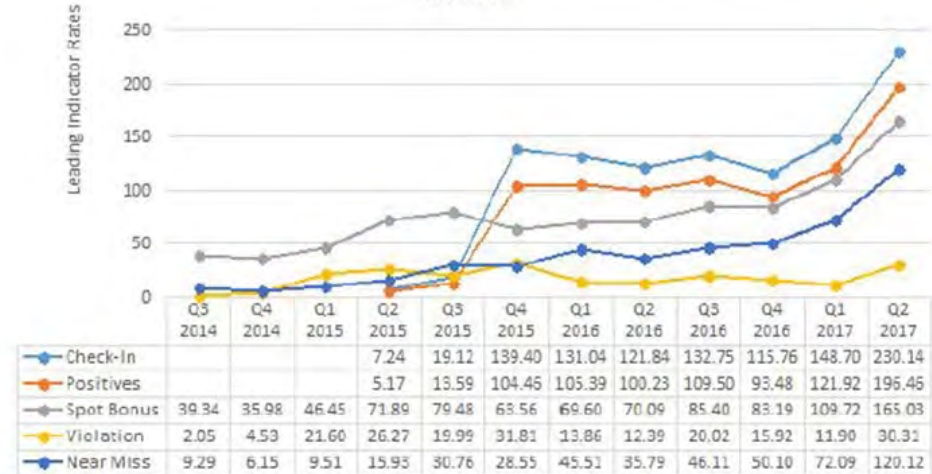
## Leading Indicator Trends

[Check-In Log](#)

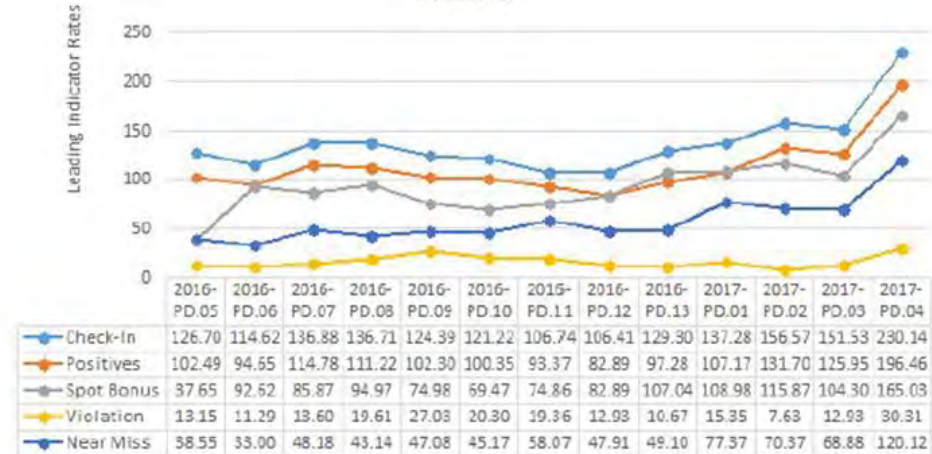
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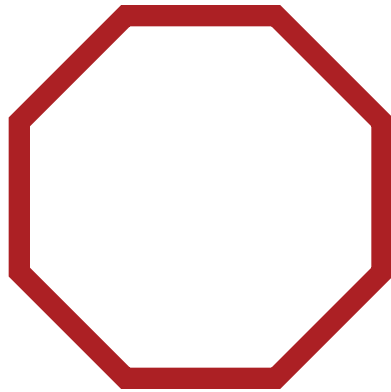
[Violation Log](#)

**LEADING INDICATOR RATES (Quarterly)**  
All rates based on (Incidents x 200,000 hours) / Actual hours worked



**LEADING INDICATOR RATES (Periodic)**  
All rates based on (Incidents x 200,000 hours) / Actual Hours Worked





What leading indicators  
are you tracking (or  
*thinking* of tracking)?

# Essential considerations for creating, tracking, and trending meaningful leading indicators

- ✓ **Measure the positive:** what people are doing versus failing to do
- ✓ Have a **short list** to be implemented at the corporate, business unit and site level
- ✓ Create **vigilant observers at every level**
- ✓ Consider **not publishing scores from site audits**
- ✓ **Incident Analysis:** to predict the future, look at the present
- ✓ Track/provide **data on open/closed corrective actions.**
- ✓ Focus on **impact versus intention**
- ✓ **Adjust your requests** for info from the system based on the types of injuries you see and the kinds of risks that are out there





## contact

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## services

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