

CONSTRUCTION

Benchmark Report





In the engineering and construction industry, it is hard to imagine a worker getting into a severe car crash. But bodily injury extends far beyond being maimed on the job site and can end up costing those in engineering and construction exponentially in worker's compensation.

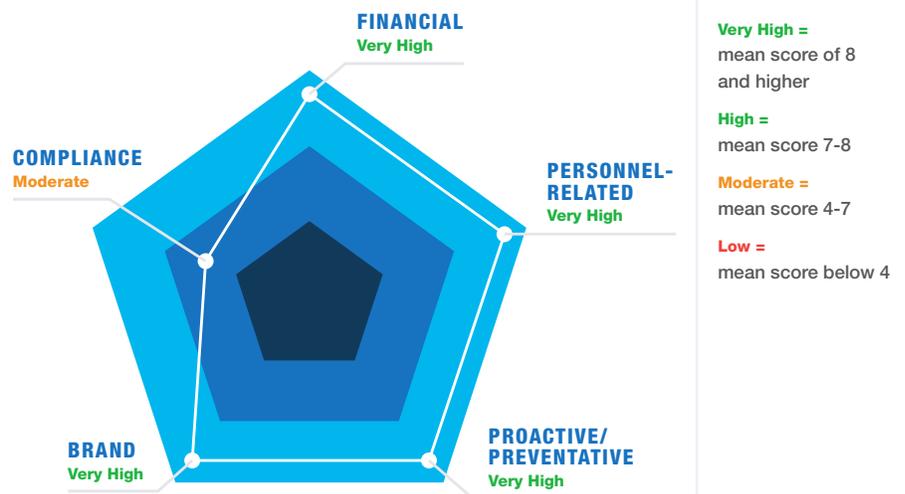
Projects have to get done in a timely fashion, meaning workers on job sites have to be as efficient as possible – potentially to a company's detriment. Caring about those who work for the company and retaining top talent is important and companies need to take every measure to keep their employees safe.

Caring for employees strengthens the relationship between a company and those who work for them. Intervention and proactivity are both important and beneficial when looking at how top talent is managed and subsequently retained.

In addition to these overarching themes, there is an emergence of industry-wide engineering and construction trends that begin to appear.

Benefits of Mitigating Driver-Related Risk

BY CATEGORY





MARKET DISRUPTIONS

Market disruptions are hard to avoid, and overhead costs are intensifying—pressures that are driving companies to better plan, manage and execute projects.

Construction earnings before interest and tax average 5.5 percent and additionally, take into account that the cost for key building materials is on the rise, driven by limited supply and tariff uncertainties. In the third quarter of 2019, The Turner Building Cost Index measured non-residential building construction costs in the United States at the highest it's been in 13 years.

Smart project management has risen in tandem with increased popularity of modularization, including modular assembly yards, strategically located fabrication sites and building element assembly. The adoption of digital technologies eliminates the need for manual data entry and provides the insights required to identify trends in potential problem areas.

According to Deloitte, “...digital technology and real-time data enables schedulers to make better informed decisions around scheduling labor and materials for a particular project.”





DIGITAL TECHNOLOGIES

The progression of digital technologies continues to change the way many engineering and construction companies operate. With many engineering and construction companies looking to keep their employees safe, technologies like telematics have informed management and above. One main concern of technology within this industry? The conceptualization that implementing monitoring means employees are constantly being watched.

INFRASTRUCTURE GROWTH

With growth of the United States infrastructure, opportunities requiring new partnership models and project structures will begin to emerge.

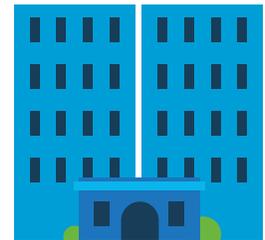
Some of these projects include:

- The costly deteriorating infrastructure and the subsequent launch of upgrade initiatives, which will consist of congested roads, unsafe bridges, aging water and wastewater treatment facilities.
- Restoration of the country's competitive advantage, taking into account the unprecedented infrastructure investment of \$2 trillion over the next ten years.
- Upgrades including roads, bridges, water systems, broadband and power grid, all with a wide array of opportunity for the engineering and construction industry.
- Constant navigation of election and tariff implications and the impact they have on the field.
- The need for private funding and by default, the opportunity for engineering and construction companies to engage in mutually beneficial public-private partnerships.



SMART CITIES

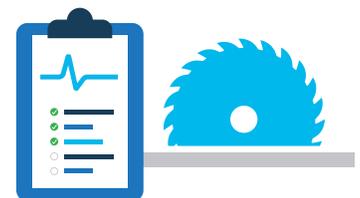
Engineering and construction firms are employing smart technologies to continue transforming cities including sustainability movement, including LEED certification and a rise in intelligent buildings and management systems that can better serve their inhabitants through artificial intelligence. Smart cities are only being bolstered through the use of advanced technology.

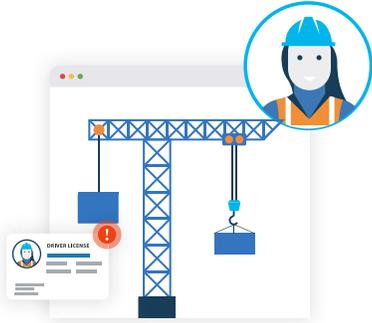


SAMBASAFETY'S EXECUTIVE PRIORITIES

Risk Priorities are as follows:

- Project Management Risk – digital technology answers this
 - Supply chain risk, quality and timeliness
 - Subcontractor performing work as agreed upon

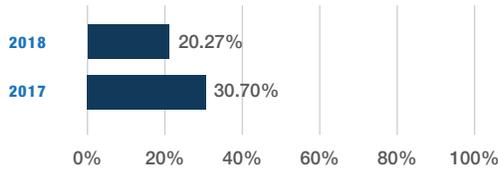




Vehicle travel is the backbone of the engineering and construction industry, with risk derived from individuals traveling to and from work sites. The time when the risk for a crash or incident is highest? Early in the morning or late at night when fatigued.

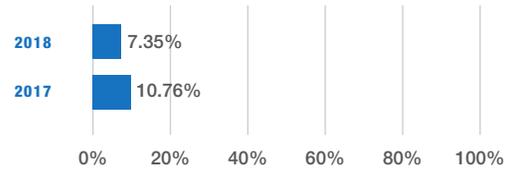
Findings

Violation %



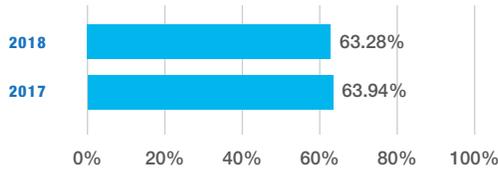
Number of events of type 'VIOLATION' per monitored person

Action %



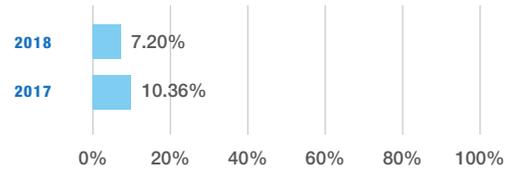
Number of events of type 'VIOLATION' per monitored person

Clean %



Number of MVRs with no events per number of orders

Major %



Number of events of type 'VIOLATION' that has the risk category of 'MAJOR' per monitored person

CONCLUSION

The engineering and construction industries take risk prevention seriously through a variety of measures. When thinking of those measures, continuous driver monitoring is often overlooked despite the logical safeguarding that comes alongside it. Those in engineering and construction are looking for simplified solutions to keep their employees safe (and not disqualified) and making them better-equipped when it comes to safety.