Next Level Safety-
AI Changing Lives Every Day

Chesapeake Region Safety Council
Safety and Health Conference & Expo
Towson, MD

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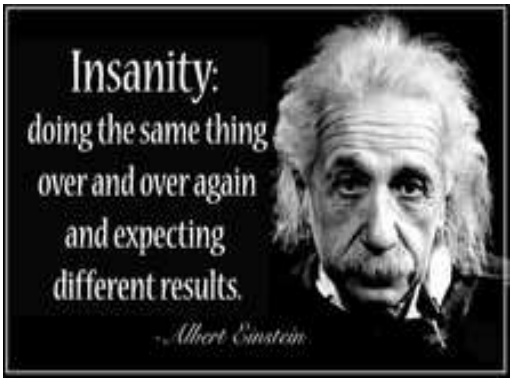
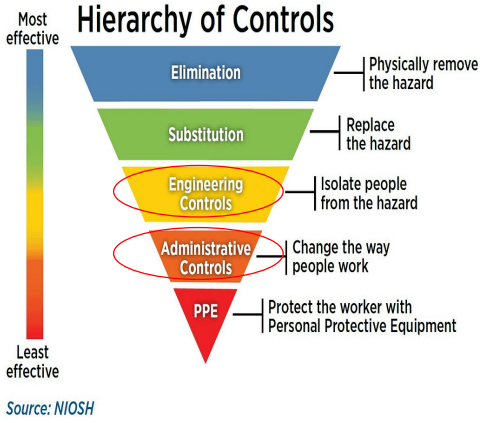
New Technology?





Source: NIOSH

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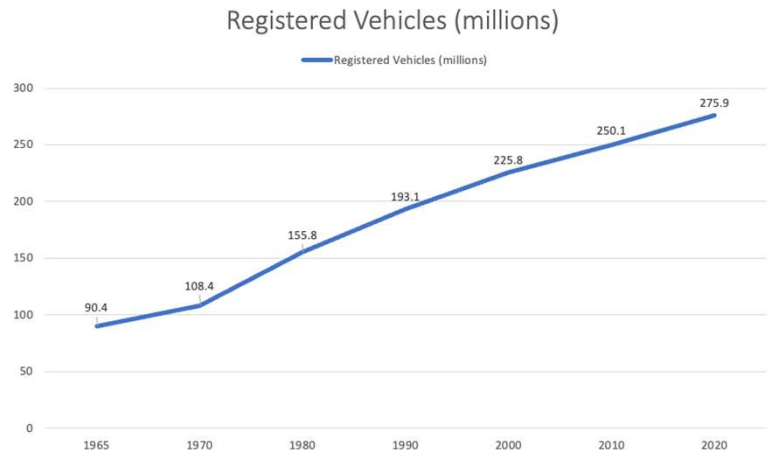
US : No. of Registered Vehicles & Fatalities



No of Fatalities	47,089

Sources: NHTSA, CEIC Data, AutoInsurance.com

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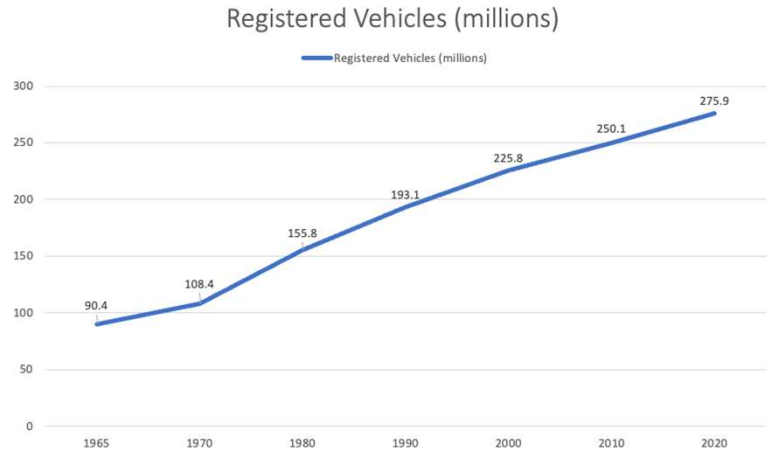
US : No. of Registered Vehicles & Fatalities



No of Fatalities	47,089	52,627	51,091	44,599	41,945	32,999	38,824

Sources: NHTSA, CEIC Data, AutoInsurance.com

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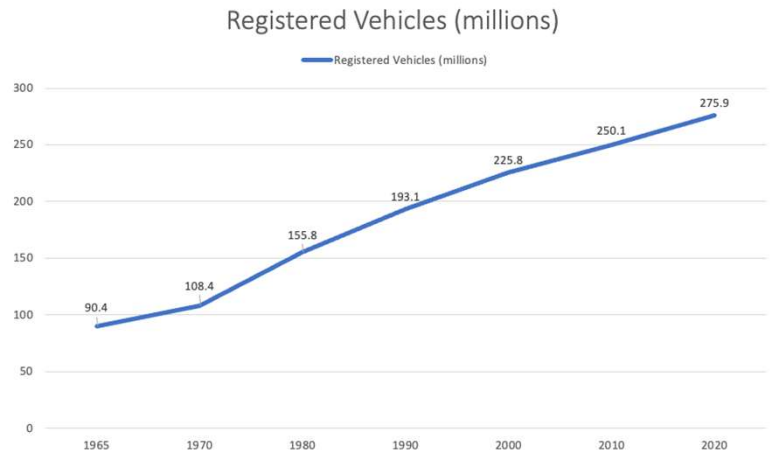
US : No. of Registered Vehicles & Fatalities



No of Fatalities	47,089	52,627	51,091	44,599	41,945	32,999	38,824

Since 1975, seatbelts are estimated to have saved more than **370,000 lives in the U.S**

Sources: NHTSA, CEIC Data, AutoInsurance.com

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Our Mission

ONE IS TOO MANY.

Yet, avoidable, preventable accidents continue to occur at the workplace, **leading to serious injuries and fatalities**.

Our mission :
To protect companies' most important assets – *their people*

Work Related Deaths Per Year

330,000 Globally*

5,283 USA, 2023**

* International Labor Organization
** US Bureau of Labor Statistics

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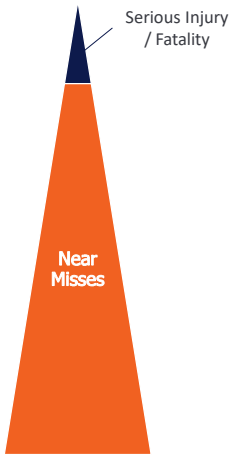
What if we can **prevent** 'Unsafe Acts' using **AI?**

What if we can **reduce** 'Low Frequency/High Severity' events using **AI?**

'Unsafe Acts' precede 'Serious Accidents.' Reactive safety approaches have limits.

Safety Pyramid



Low Frequency/High Severity Event Pyramid

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EG US Business – Current Customers

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GERDAU · NUCOR · North Star BlueScope · BRS Big River Steel a U. S. Steel company · Charter Steel · ELLWOOD · CSI California Steel Industries, Inc. · INFRA-METALS · SSAB · Zekelman Industries · Kuehne Company · CLIFFS · MAC · DONCASTERS · PACIFIC STEEL GROUP · U. S. Steel

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Our Technology

- ***Computer Vision*** works 24/7/365 to identify ***customized*** 'predefined' unsafe acts
- Provides ***real time alerts*** to workers on the factory floor to prevent accidents and change workers' behavior
- Uses advanced **edge computing** to address complex safety challenges, continuously learning and becoming smarter over time
- ***User Portal*** surfaces data, trends and provides coaching modules to decrease 'unsafe acts' by taking proactive measures

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Tarping Bay Risk

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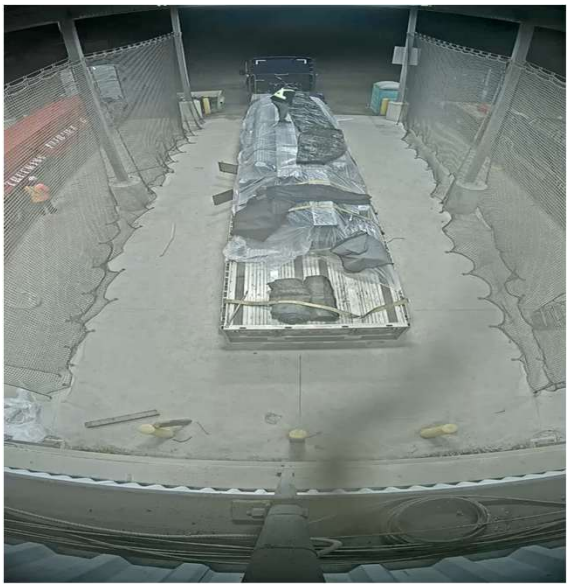
Tarping Bay Risk



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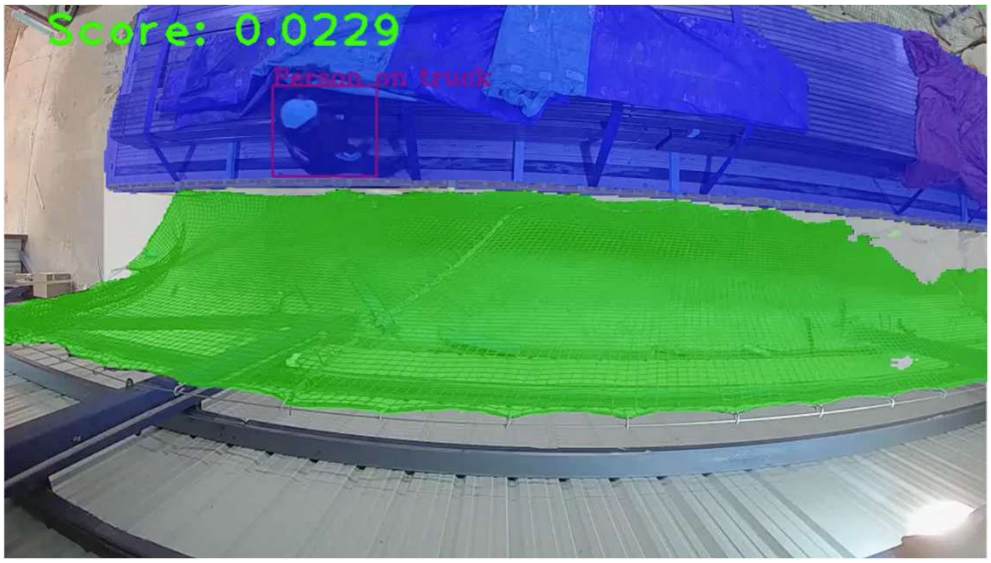
Sentri360 : Fall Prevention



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Sentri360 : Fall Prevention

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Sentri360 : Fall Prevention

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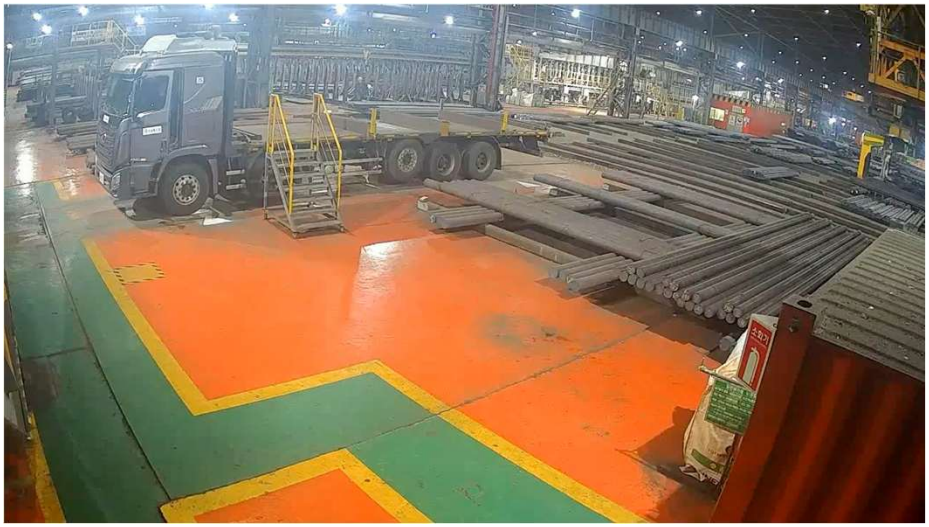
Sentri360 : PPE Detection



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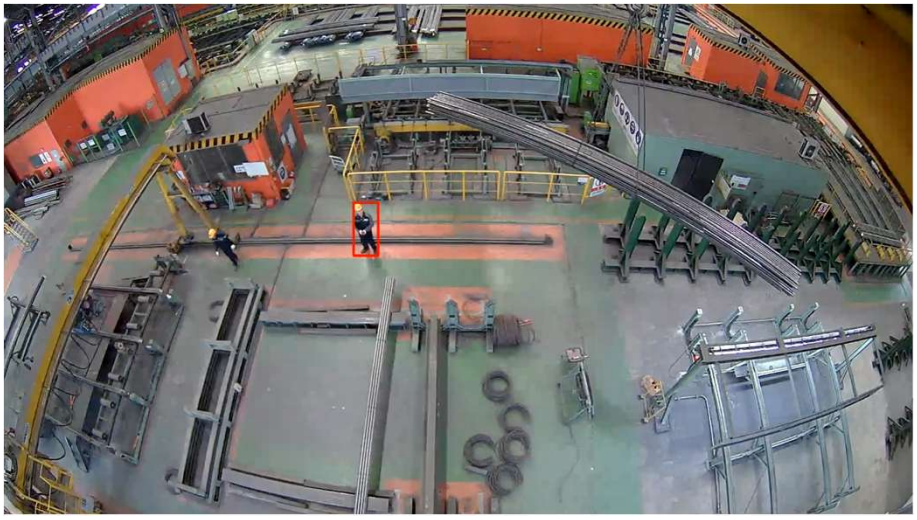
CraneSafe : Worker Proximity



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Sentri360 : Multi-tasking

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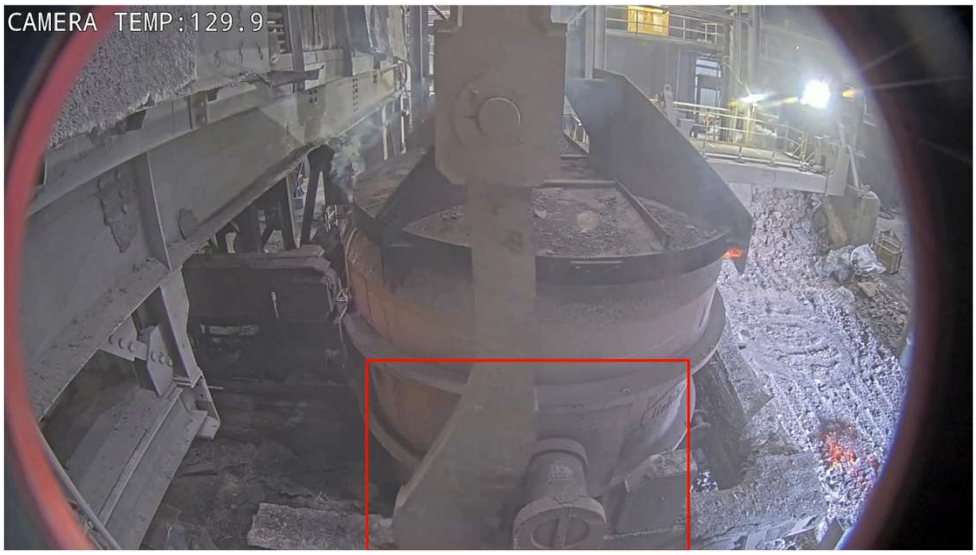
Sentri360 : Blindside J-hook detection



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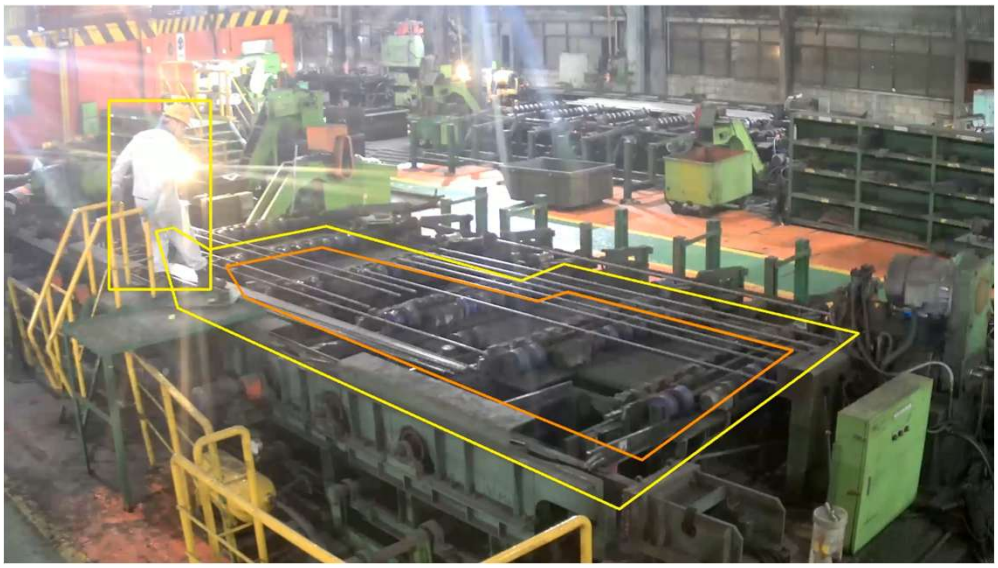
Sentri360 : Geofence



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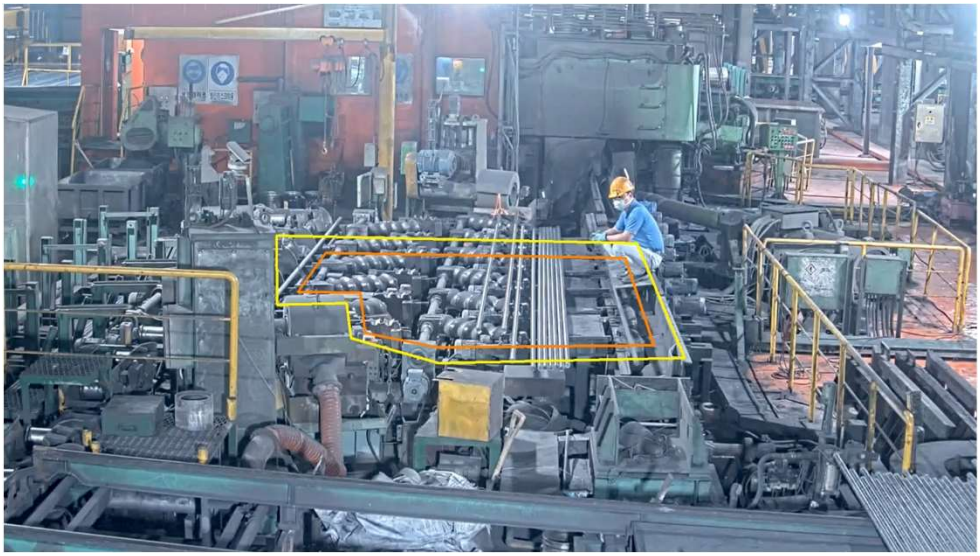
Sentri360 : Geofence



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Sentri360 : Geofence & PLC Integration

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Sentri360 : Cobble Detection

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Sentri360 : Cobble Detection

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Sentri360 : Vehicle Collision

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Operational Use Case

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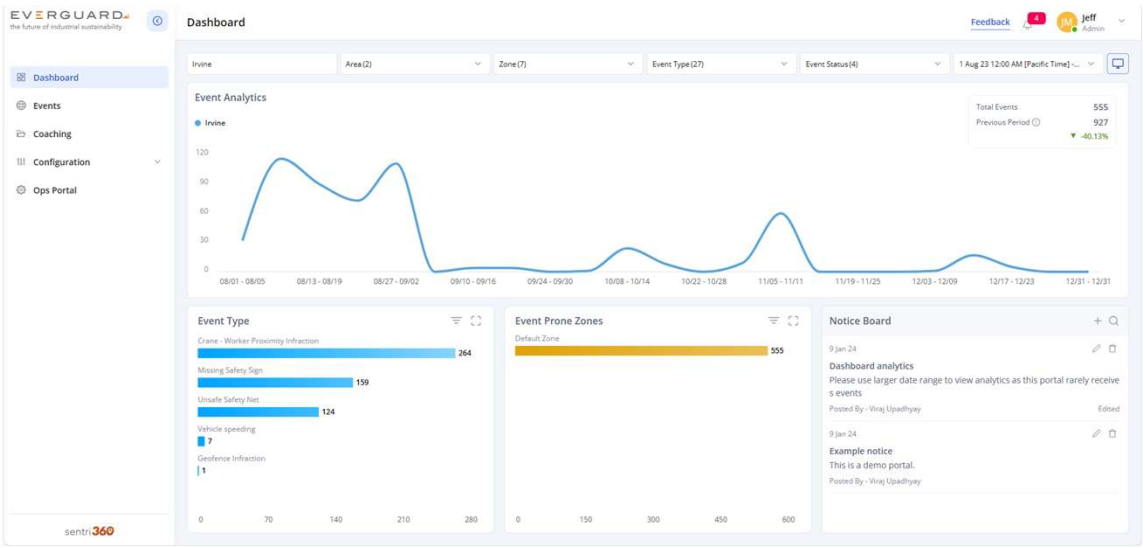
User Portal - Dashboard



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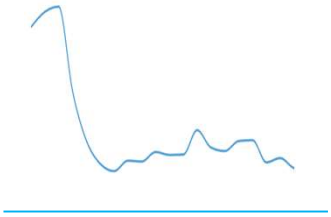
Unsafe Act Reduction – Customer Example

<Global Steel Company A>

No. of Geofence Events



No. of Missing PPE Events

- More than 90% reduction in unsafe acts upon a few months of deploying EG solution
- Utilized EG user portal to train and coach workers
- Safety team able to measure progress and reach target results

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the future of industrial sustainability

Thank you

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