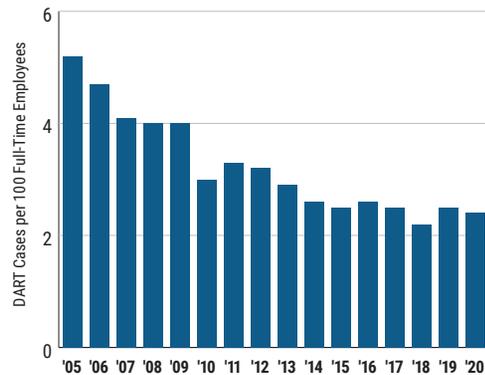


Milepost 2020: Occupational Safety and Health

Through a combination of investment and innovation, USTMA member companies continue to drive progress toward the industry's aspirational sustainability vision of zero injuries and illnesses in the workplace:

- Proactive efforts have led to a 53% reduction in serious injury and illness rates from 2005-2020.

U.S. TIRE MANUFACTURERS INCIDENCE RATE
DAYS AWAY, RESTRICTED OR TRANSFERRED (DART)



- In 2020, 83% of USTMA member company tire manufacturing facilities had safety and health management systems in place, up from 68% in 2018. These comprehensive programs integrate four interdependent elements: Management Leadership and Employee Involvement; Worksite Analysis; Hazard Prevention and Control; and Safety and Health Training.



- 100% of new employees at member facilities receive safety training.

USTMA's Sustainability Awards for Safety and Health amplify members' efforts by highlighting innovation and fostering reproducibility. In recent years OSHA, leading safety and health experts, and USTMA members have recognized that when addressing workplace safety and health, measuring for success must go beyond data collection of injury rates. What we've learned is that achieving true success in this area is also driven by factors such as a strong organizational culture and effective systems and processes. USTMA members are constantly striving for ways to improve these indicators, and we are proud to recognize through our Sustainability

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USTMA Members' Award-Winning Innovations Boost Worker Health & Safety

USTMA presents the competitive Sustainability Awards for Safety and Health annually to member companies promoting innovative programs to improve workplace safety and health for the U.S. tire manufacturing industry. The hallmark Innovation Award is presented in two categories, Technology and Culture. The following programs were recognized between 2019 and 2021:

INNOVATION AWARD FOR TECHNOLOGY

- **Goodyear Motion Capture Ergonomics (2021)** Sensorless motion-capture technology allows Goodyear to make faster, more precise evaluations of potential injury risks in workers' daily tasks. Video – taken on any mobile device – is uploaded to special analytical software and results are returned in minutes. The use of artificial intelligence

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USTMA's annual awards highlight and promote safety innovations and best practices

VISION:

USTMA members strive to have zero workplace injuries and illnesses.

SNAPSHOT:

- 53% reduction in safety incidence rate since 2005. Rates have been essentially flat for several years.
- 83% of USTMA member tire manufacturing facilities now have safety and health management systems in place, up from 68% in 2018.



Members Rise to the COVID-19 Challenge

The COVID-19 outbreak underscored the critical importance of USTMA's ongoing work to advance workplace safety and health for the industry's most important resource: its people. USTMA member companies responded to the global pandemic with action both within the factory walls and beyond:

- Bridgestone's Griffin, GA facility introduced an automated temperature screening process that combined real-time temperature readings and a digital risk questionnaire to efficiently control access to the work environment and automatically share data with management.
- Hankook provided tire centers with financial assistance and supplies to improve sanitization in their shops.
- Michelin collaborated on an app giving its facility managers and employees access to timely COVID-19 data compiled from key national, state and county databases.
- USTMA members Bridgestone, Cooper, Continental, Giti, Goodyear, Hankook, Michelin, Pirelli, Sumitomo, Toyo and Yokohama also engaged in the broader societal response to the global pandemic, whether by producing much-needed supplies or financially supporting efforts to protect community health and safety.

Innovation *continued from p.1*

eliminates variability and human error in safety assessments.

- **Michelin Tire Building Knife Redesign (2020)** After research identified the cutting process as one of three high risk upper body tasks in tire building — operators perform nearly 1,000 cuts per shift — Michelin collaborated with Everhard to develop and test ergonomically improved tire building knife designs. The final design improves the angle of the operator's wrist and helps eliminate the risk of finger contusions. In six weeks of testing with the new knife, the plant recorded only one general ergonomic injury in the tire building; the previous monthly average was seven.
- **Bridgestone Forklift ID System (2019)** To reduce forklift-related accidents at its Warren County facility in Tennessee, Bridgestone implemented a technology-based system that ensures forklifts can only be activated after completion of a pre-use checklist and by employees whose electronic badges indicate they are properly trained. On-board sensors also shut down a forklift if a collision is detected so that the scene of the accident can be properly analyzed and remediated, if necessary. Use of the system has reduced incidents and guided safety-enhancing changes to the facility layout.

INNOVATION AWARD FOR CULTURE

- **Michelin Bib Bowl Stretching Initiative (2021)** Michelin's Ardmore, OK plant kicked off its new ergonomics program with a football-themed competition to drive participation in pre-shift stretching regimens. Each day of the contest, work crew "teams" submitted photos of themselves doing their stretches to earn qualifying yardage toward the "Bib Bowl." Bowl-qualified teams then submitted videos of their stretching and a plant-wide vote determined the winning team. The enthusiasm generated helped the



In this award-winning program, work teams competed for a coveted WWE-style belt by identifying and addressing the most potential safety concerns

facility record a 7% year-to-year improvement in ergonomic-related injuries.

- **Yokohama Tire STOP-CALL-WAIT and Hazard Prediction (2020)** In 2011, Yokohama's Salem, VA facility implemented a successful, easy-to-understand safety protocol in which any worker with safety concerns was encouraged to immediately stop their machine, call a supervisor and wait for the concern to be addressed. However, an uptick in workplace accidents in 2018 signaled the need for a refresh. All employees and managers now attend guided re-enactments of prior accidents to better understand what went wrong and how the accident could have been prevented, yielding measurable improvements in safety metrics.
- **Michelin Amber Light & Safety Belt Challenge (2019)** Michelin found success mixing high visibility and worker engagement to improve safety performance in its Norwood, NC facility. Workers identify potential safety problems with magnetic amber lights that only stop flashing once a manager confirms the problem is resolved. Once a month, plant leadership awards a coveted WWE-style championship belt to the work teams addressing the most concerns.

Milepost *continued from p.1*

Awards the cultures and systems driving workplace safety at our members' facilities.

- **The Innovation Award** recognizes companies that implement creative programs, technologies or systems that drive progress in workplace health systems and cultures. Examples of projects receiving this award include an ergonomically redesigned tire building knife and a motion capture video app in the technology category, and an interactive hazard simulation training and a WWE-style belt awarded to teams identifying/resolving the most potential safety risks in the culture category.
- **The Leadership Award** recognizes companies that share initiatives to reduce risks and improve outcomes in safety and health with all USTMA members.

For more information on USTMA and member company actions to promote occupational safety and health, visit sustainability.ustires.org