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LYTX'S ANNUAL

STATE OF THE DATA

A snapshot of roadway risks and safety improvements

Over 36 billion miles of new driving data captured in 2022, bringing the total dataset for the Lytx Vision™ Platform to over 221 billion miles total

Lytx's 2023 "State of the Data" report is designed to help fleets improve driver and road safety, save costs, and increase operational efficiency. Looking at the data from 2019-2022, roads continued to be extremely dangerous as traffic returned to pre-pandemic levels last year. Drivers who leveraged Lytx's video safety and video telematics applications continued to show long-term improvements in safe driving, resulting in a significant drop in risky driving and collisions per mile traveled in 2022, compared to 2019.

"We hope that by sharing the findings in this report, derived from extensive data from the Lytx Vision Platform, we can help fleets celebrate their wins in 2022, as well as provide insights to help them save money, time, and most importantly, lives."

DAVE RIORDAN
Executive Vice President and
General Manager, Enterprise, Lytx

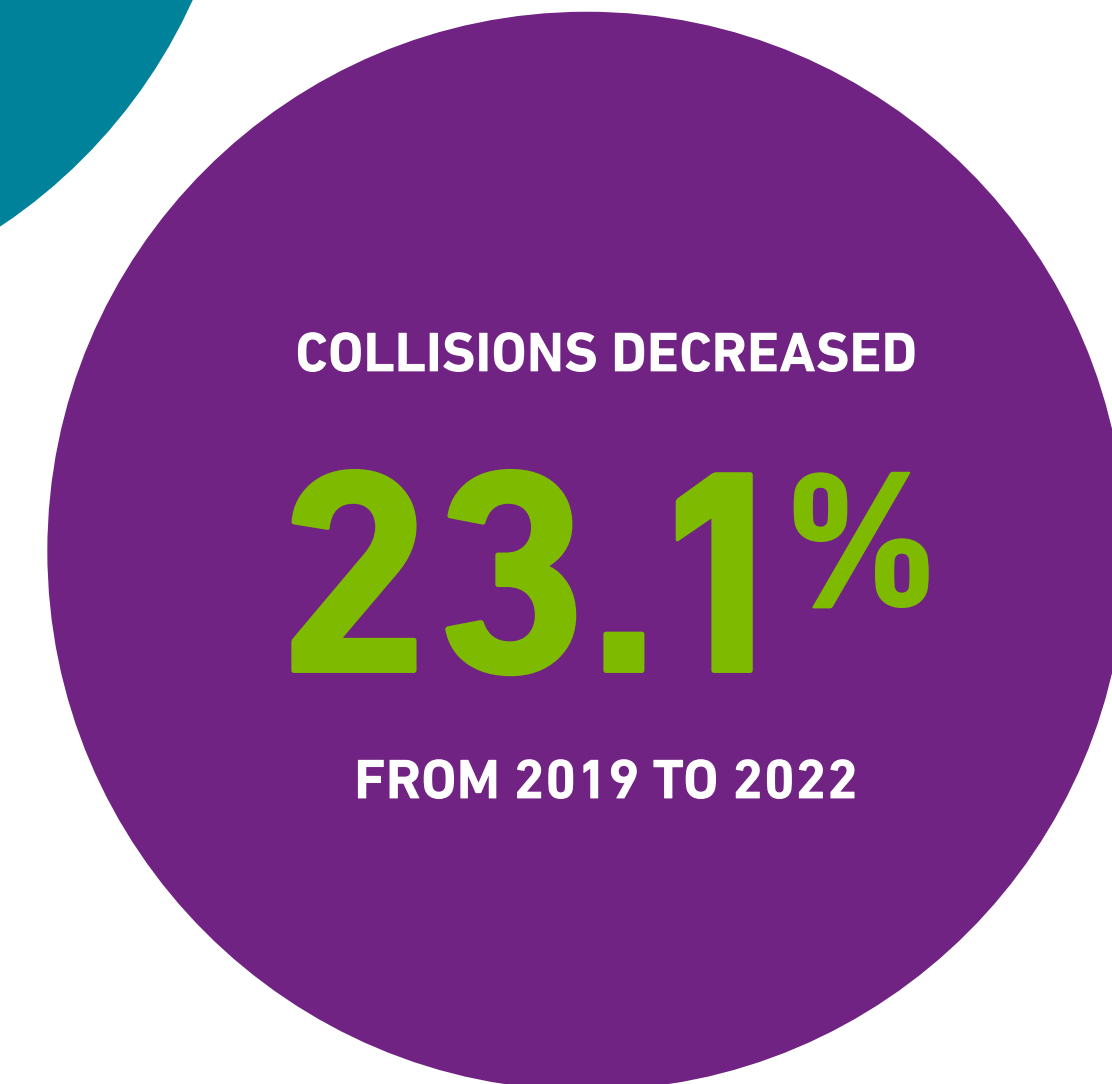# Overall risky driving in North America decreased in 2022

LYTX RISK SCORE

In 2022, overall risky driving improved by a significant 29% over 2019 (the last "normal year" before COVID-19 related disruptions). As Lytx's technology has continued to improve its capacity to detect risk, clients have also gotten better at driving down those risks through a combination of coaching workflow and MV+AI* alerting. The overall weighted Risk Score** for 2019 was 18.3, while in 2022 it improved to 12.9.

COLLISIONS

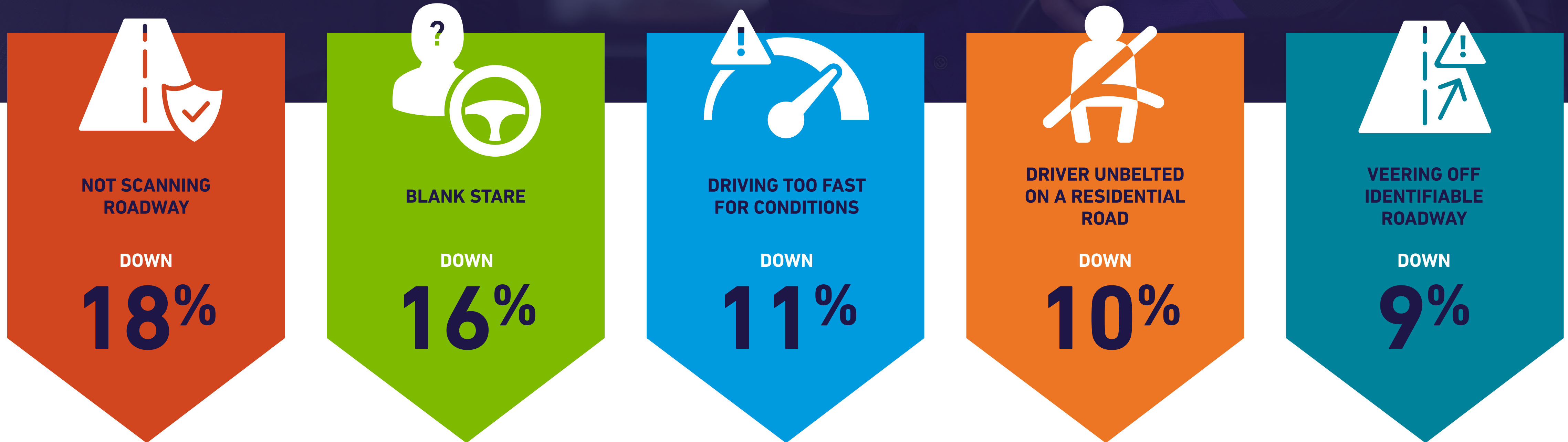Collisions per 1,000,000 miles driven also dropped, resulting in a 23.1% decrease from 2019 to 2022.

According to the data and analytics, as traffic returned to pre-pandemic levels on the roads, drivers showed measurably safer and more attentive driving habits, resulting in fewer collisions per miles driven.

RISKY DRIVING IMPROVED

29%

OVER 2019

RISK SCORE IMPROVED TO

12.9

FROM 18.3 IN 2019

COLLISIONS DECREASED

23.1%

FROM 2019 TO 2022

Driving down risk

Drivers showed significant improvement in certain risky driving behaviors, when comparing 2022 to recent years. This progress can be attributed to more fleets employing coaching tools and workflows that allow fleet managers and drivers to work together to continually identify areas of improvement and reward risk reduction.

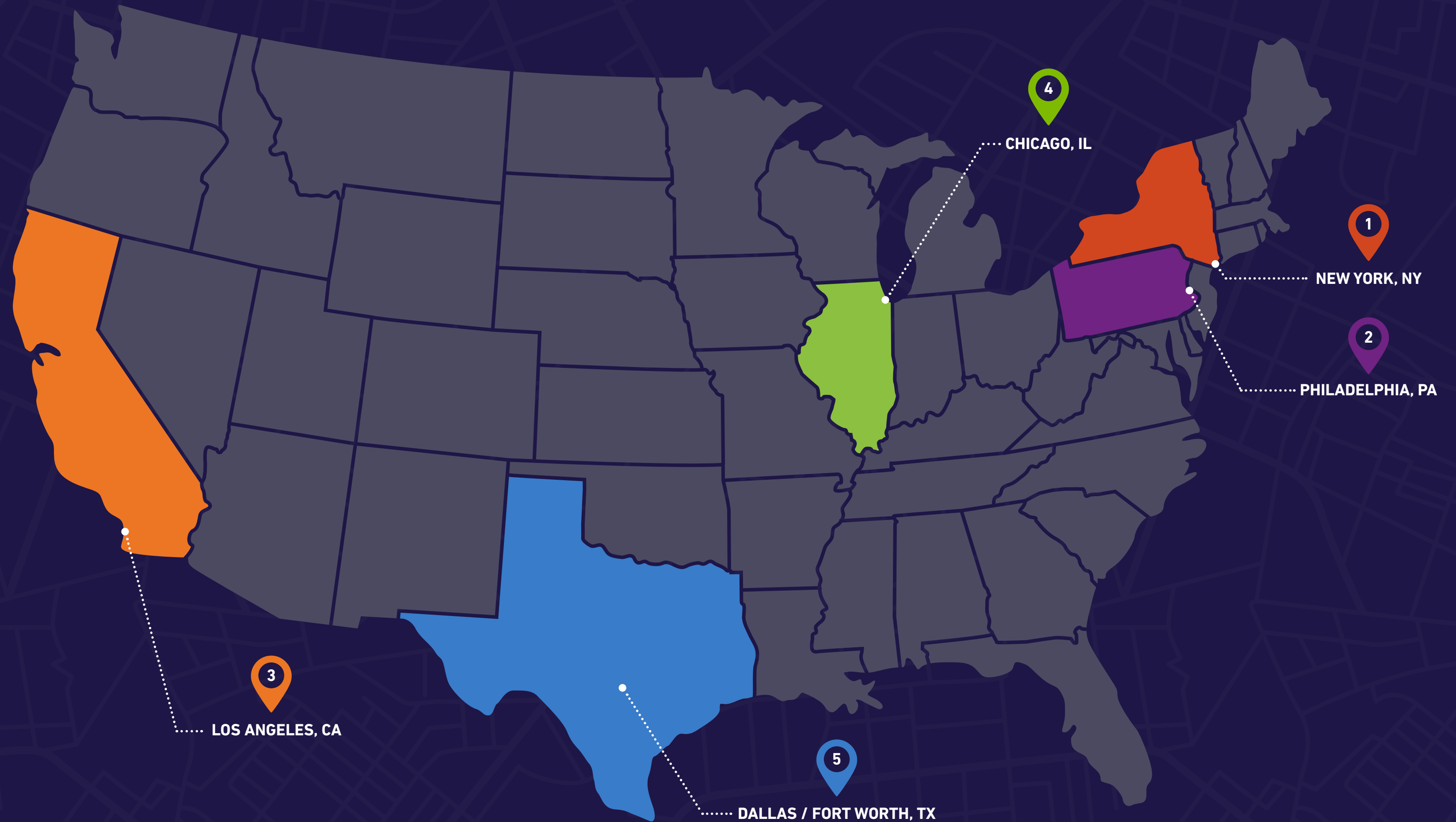*The following were the five most improved risky driving behaviors from 2021 to 2022.*

NOT SCANNING ROADWAY	BLANK STARE	DRIVING TOO FAST FOR CONDITIONS	DRIVER UNBELTED ON A RESIDENTIAL ROAD	VEERING OFF IDENTIFIABLE ROADWAY
DOWN	DOWN	DOWN	DOWN	DOWN
18%	**16%**	**11%**	**10%**	**19%**

While various driving habits improved over the last year, "driving too fast for conditions" was also the number one improved risky driving habit comparing 2022 to 2020, down 52%, and number two down 74% comparing 2022 to 2019.
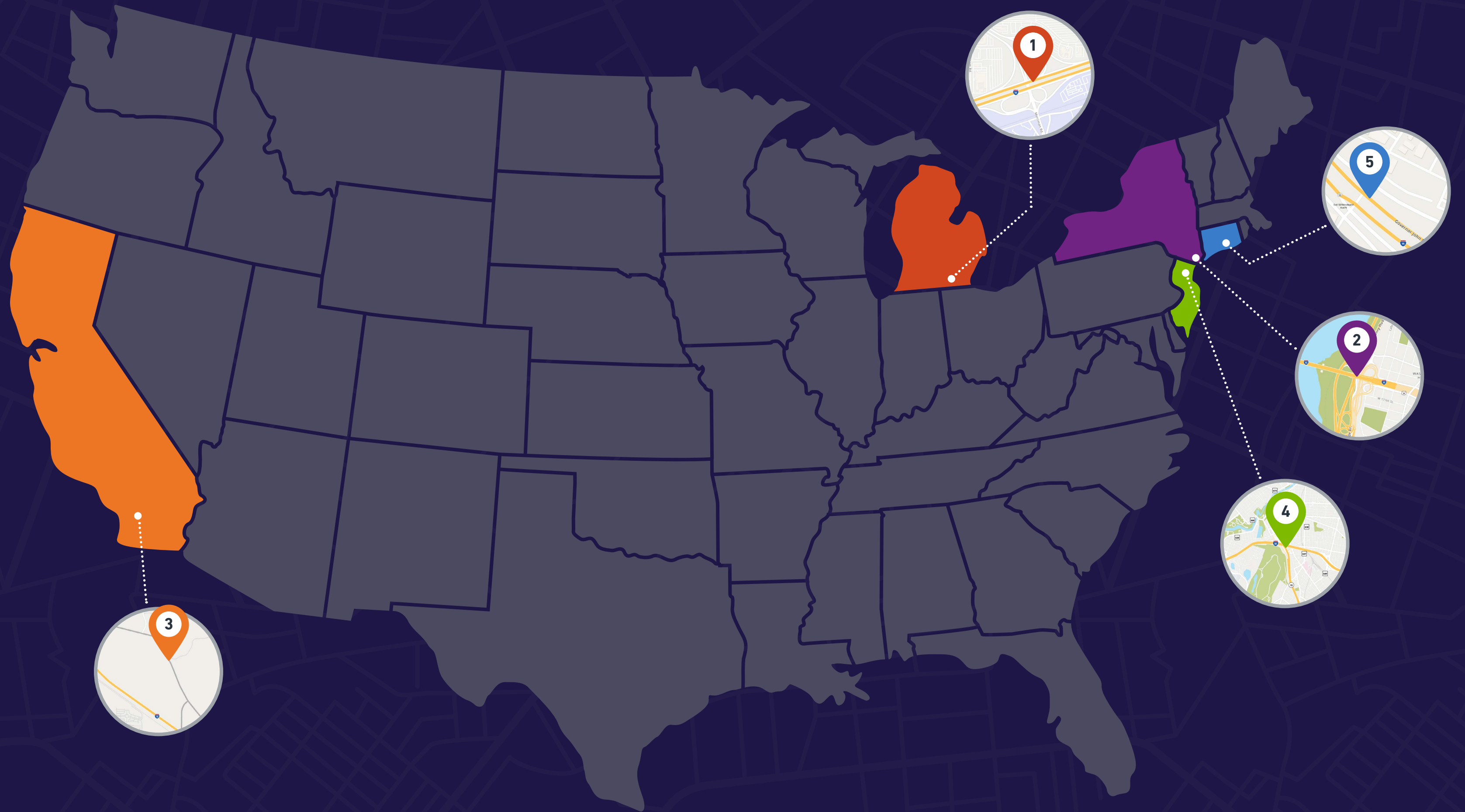
Top five riskiest driving cities

While many of 2021's **riskiest driving cities** remained in the top five, Atlanta improved to number seven, while Dallas/Fort Worth entered the top five. New York remained number one for the second year in a row.

1 NEW YORK, NY

2 PHILADELPHIA, PA

3 LOS ANGELES, CA

4 CHICAGO, IL

5 DALLAS/FORT WORTH, TX

CHICAGO, IL

1 NEW YORK, NY

2 PHILADELPHIA, PA

3 LOS ANGELES, CA

5 DALLAS / FORT WORTH, TX

Top five risky public roadways

1 MICHIGAN
I-94 at Merriman Road, Romulus
• A complex airport interchange

2 NEW YORK
George Washington Bridge near Riverside Drive, NY
• The world's busiest vehicular bridge

3 CALIFORNIA
Edom Hill Road and Varner Road, Desert Hot Springs
• A lack of lane markings

4 NEW JERSEY
NJ19 and I-80 in Paterson
• A complex interchange, with highways terminating into city streets

5 CONNECTICUT
I-95 near Fulton Terrace, New Haven
• A curved freeway entering the busy port of New Haven

Airports have emerged as some of the nation's most dangerous driving areas

14 out of 30 of the highest-risk sections of public and private roadways were within 2 miles of airports, in 2022. This was **up 86%** from 2021, when 8 of the top 30 riskiest roadways were near airports.

TOP 5 HIGH-RISK AIRPORTS TO DRIVE AROUND

1. Denver International
2. John Glenn Columbus International
3. Phoenix Sky Harbor
4. John F. Kennedy International
5. Newark Liberty International

"Airports likely stand out as having among the more dangerous roadways due to several factors, including the high number of intersections and transitions, the high percentage of drivers unfamiliar with the routes, the high concentration of cars, and of course, hurried or distracted behaviors such as looking at mobile phones."
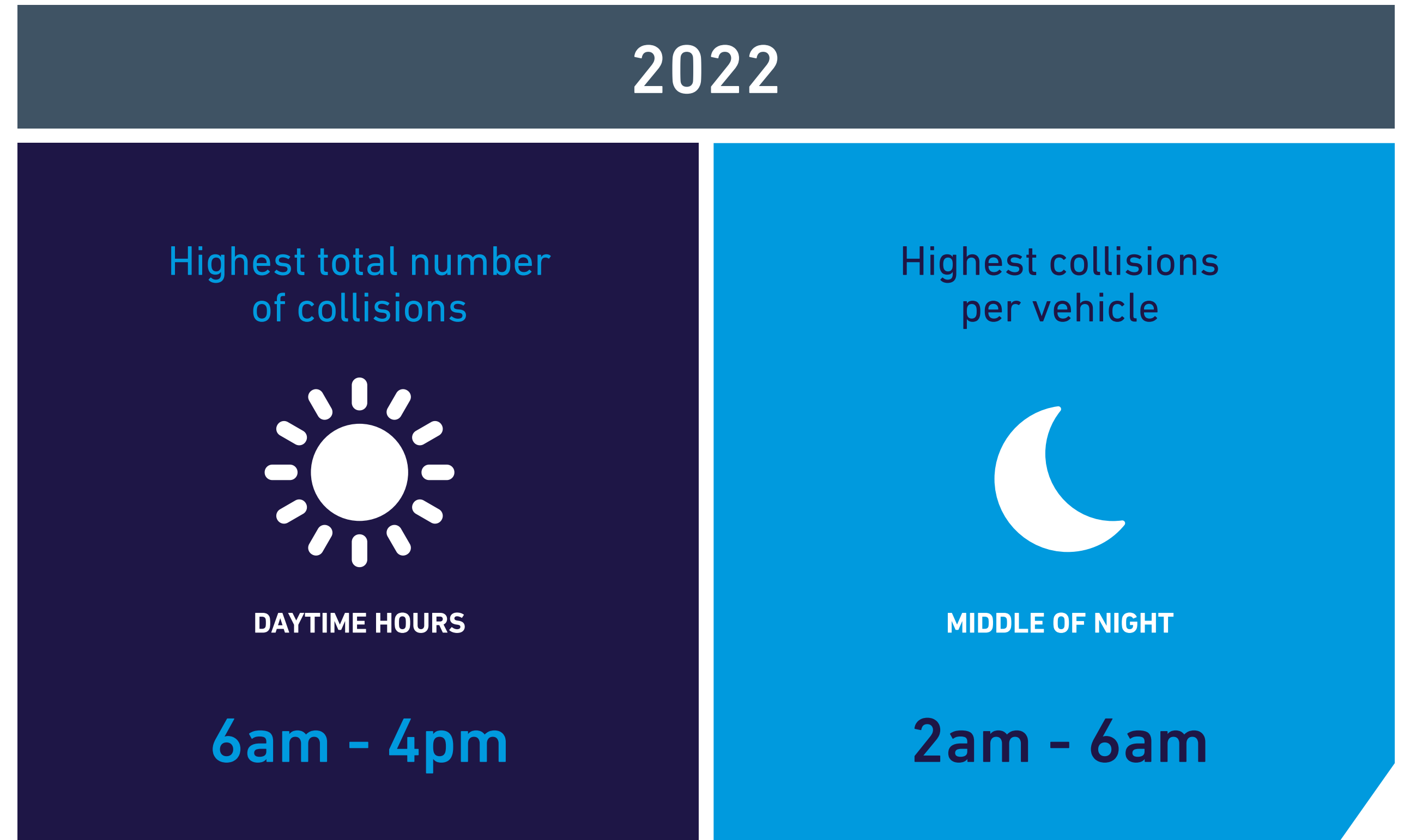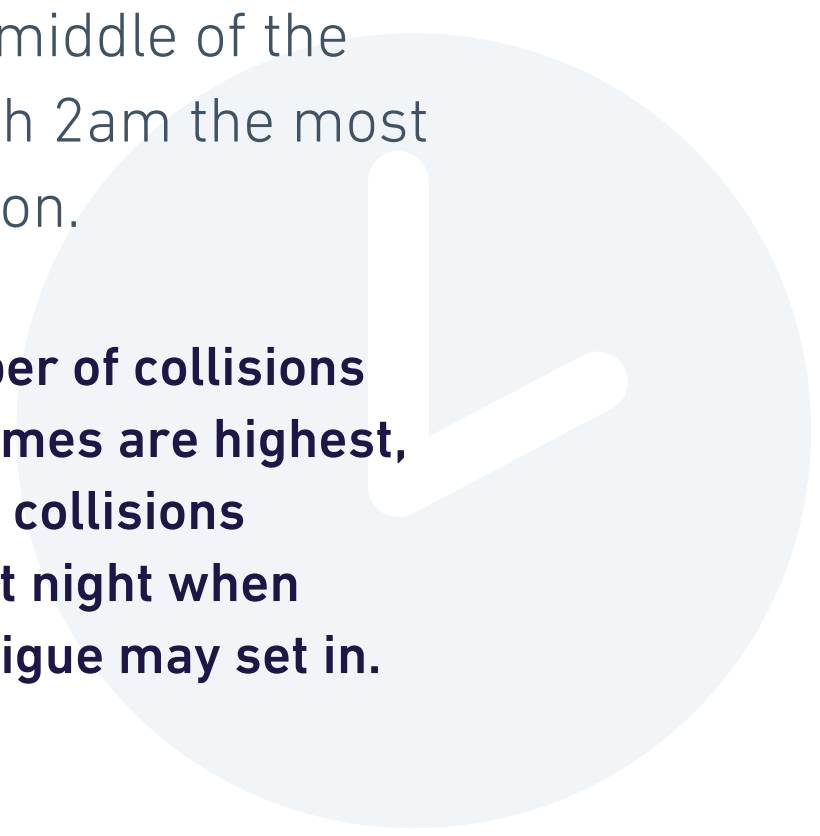
KYLE WARLICK
Client Intelligence Analyst, Lytx

Time of day impacts the likelihood of a collision

- In 2022, the highest total number of collisions occurred during the daytime hours (6am - 4pm), with the most occurring at 11am.

- Alternatively, the highest collisions per vehicle (those on the road at each hour) occurred in the middle of the night (2am - 6am), with 2am the most likely time for a collision.
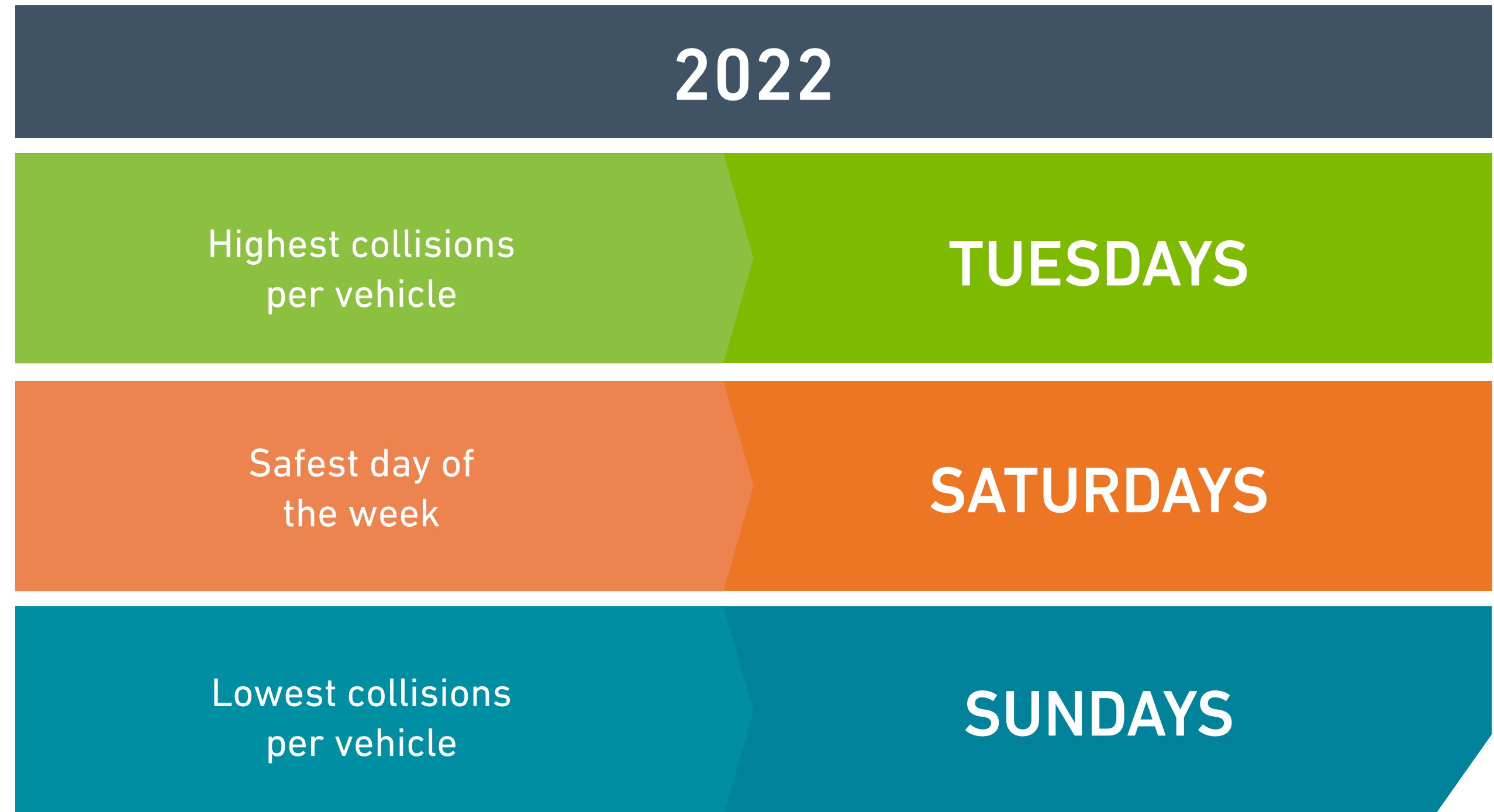
Although the largest number of collisions occurred when traffic volumes are highest, during the day, per vehicle collisions occurred most often late at night when visibility is darkest and fatigue may set in.

2022

Highest total number of collisions	Highest collisions per vehicle
DAYTIME HOURS	MIDDLE OF NIGHT
6am - 4pm	2am - 6am

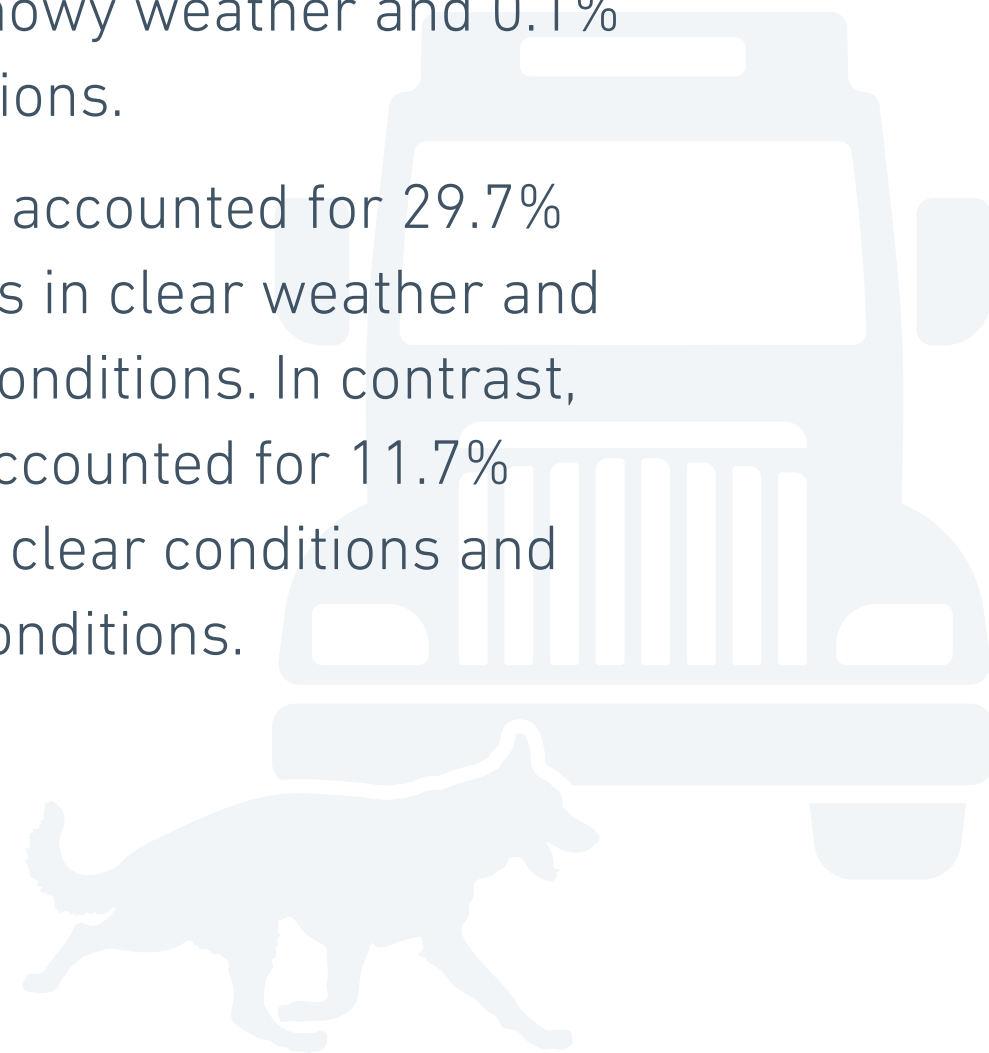# Even the day of the week impacts the likelihood of a collision

- In 2022, the highest collisions per vehicle occurred on Tuesdays.

- Saturdays were the safest day of the week, with the lowest collisions per vehicle. Sundays were second lowest.

Findings suggest that high weekday commute traffic very closely correlated to higher numbers of collisions and was further supported by weekend lows.

2022

Highest collisions per vehicle	**TUESDAYS**
Safest day of the week	**SATURDAYS**
Lowest collisions per vehicle	**SUNDAYS**

Most collisions happen in clear weather, often due to animal strikes

- While 13.1% of collisions occurred during rainy weather, 83.9% occurred in clear conditions, with only 2.9% occurring in snowy weather and 0.1% in foggy conditions.

- Animal strikes accounted for 29.7% of the collisions in clear weather and 9.4% in rainy conditions. In contrast, fixed objects accounted for 11.7% of accidents in clear conditions and 16% in rainy conditions.

2022

Collisions

13.1%
RAINY WEATHER

83.9%
CLEAR CONDITIONS

2.9%
SNOWY WEATHER

0.1%
FOGGY WEATHER

Animal strikes

29.7%
CLEAR CONDITIONS

9.4%
RAINY CONDITIONS

Fixed objects

11.7%
CLEAR CONDITIONS

16%
RAINY CONDITIONS

Animal strikes continue to rise

UP
27%
2022 to 2019

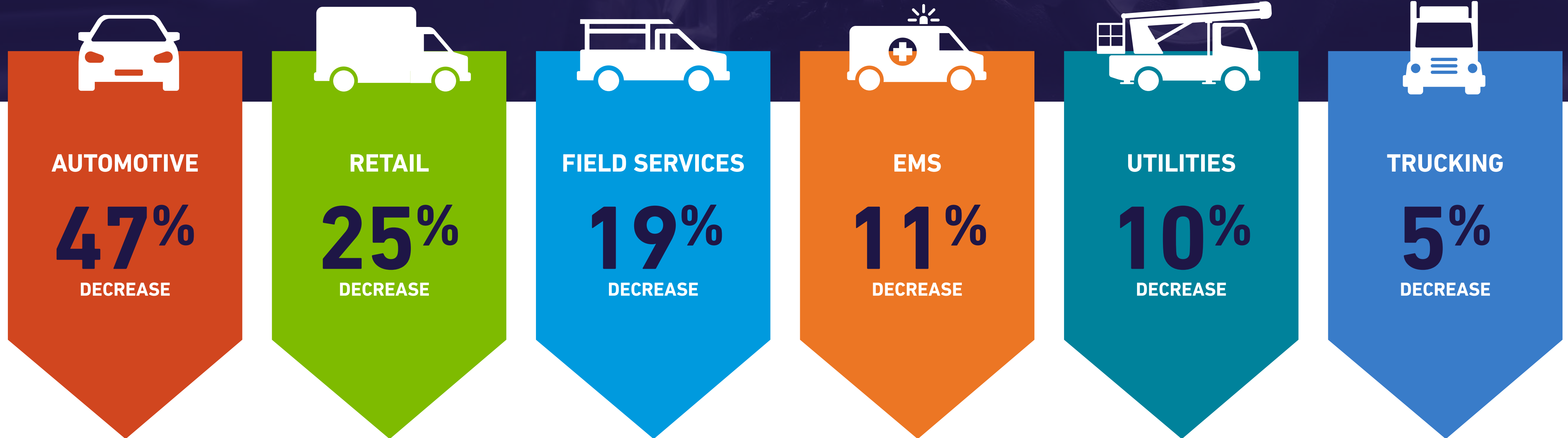**DOWN**
1%
2022 to 2020

UP
12%
2022 to 2021

"*Looking at recent years, animal strikes were responsible for a significant percentage of collisions. Further, collisions involving animals were up considerably, with a relative dip only in 2020 as overall traffic volumes dropped dramatically. When traffic returned, strikes again increased.*"

KYLE WARLICK
Client Intelligence Analyst, Lytx

Collision frequency and severity

Despite the high levels of risk on the nation's roadways in 2022, key transportation sectors saw significant decreases in their collision frequency and severity, in 2022 compared to 2021.

AUTOMOTIVE

47%
DECREASE

RETAIL

25%
DECREASE

FIELD SERVICES

19%
DECREASE

EMS

11%
DECREASE

UTILITIES

10%
DECREASE
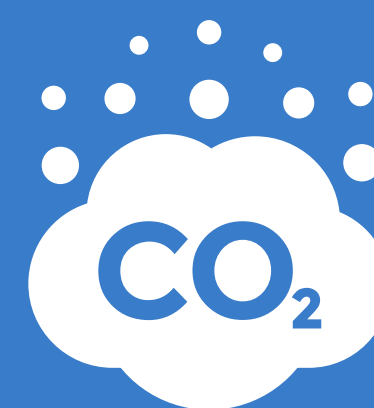
TRUCKING

5%
DECREASE

Supply chain impact

- Vehicles spent less time idling in 2022 compared to 2021. Idle times for Lytx clients dropped about 16%, helping to prevent more than 90 million tons of CO_2 emissions and over $24 million in wasted fuel.

- In 2020 and 2021 there were dramatic disruptions to the supply chain. These headwinds led to fleets of trucks regularly waiting at ports and other shipment locations for hours or days, rather than minutes. As the supply chain recovered, idling related losses and pollution dropped measurably.

Positive findings from 2021 to 2022

IDLE TIMES DROPPED

16%

TONS OF EMISSIONS PREVENTED

90M

WASTED FUEL PREVENTED

$24M

The Lytx impact

IN 2022, LYTX HELPED CLIENTS:

- Achieve an estimated $1.4 billion savings on claims including workers compensation a nd insurance claims.

- Realize an estimated $402 million savings on vehicle maintenance.

- Save an estimated $920 million in fuel costs including idling savings above.

Client savings in 2022

CLAIMS

VEHICLE MAINTENANCE

FUEL COSTS

$1.4B $402M $920M

U.K. INSIGHTS
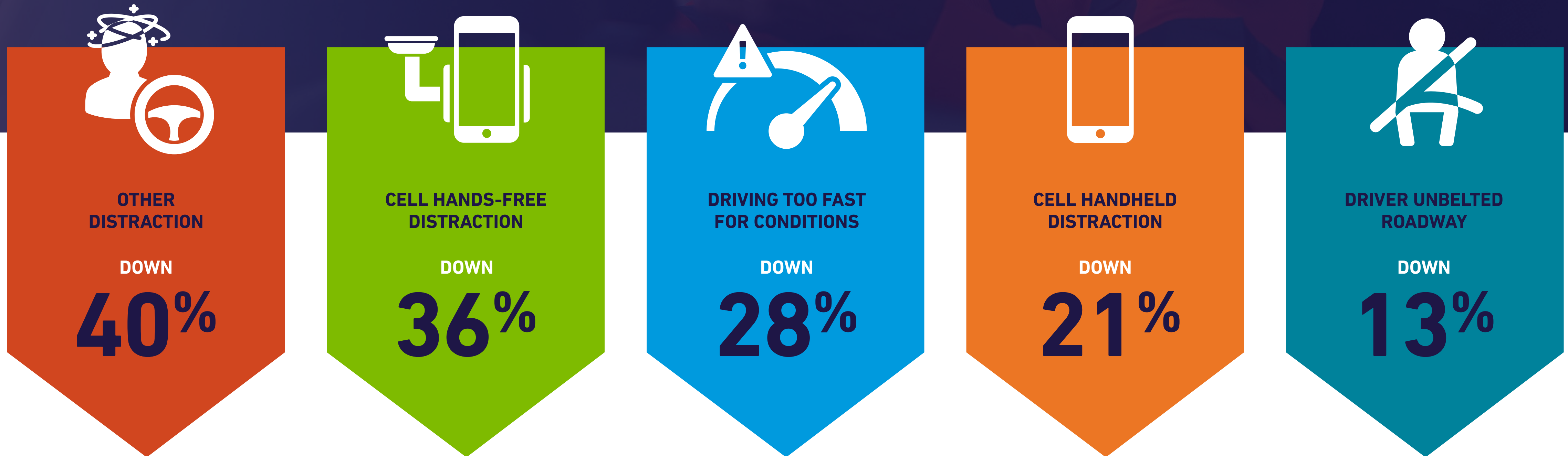
Improvements in risky driving behaviors in the U.K.

The U.K. showed significant improved risky driving behaviors from 2021 to 2022, with noticeable progress in distracted driving, which made up three of the five most improved behaviors.

OTHER DISTRACTION

DOWN

40%

CELL HANDS-FREE DISTRACTION

DOWN

36%

DRIVING TOO FAST FOR CONDITIONS

DOWN

28%

CELL HANDHELD DISTRACTION

DOWN

21%

DRIVER UNBELTED ROADWAY

DOWN

13%

In 2022, both the U.K. and U.S. saw improvements with "driving too fast for conditions" and "driver unbelted" behaviors.

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U.K. DATA

Top five risky public roadways

Similar to the U.S. data, public transit/transportation hubs like airports and underground railway stations become dangerous driving situations when there is a high concentration of drivers who are distracted, in a hurry, unfamiliar with the roads, etc.

1 Area around Moor St Station, Moor St, Holloway Circus, **Birmingham B4 7UL, United Kingdom**

4 Bordesley Circus and Coventry Rd, **Birmingham B10 0RU, United Kingdom**

2 University of Hertfordshire De Havilland Campus, Mosquito Way, **Hatfield AL10 9EU, United Kingdom**

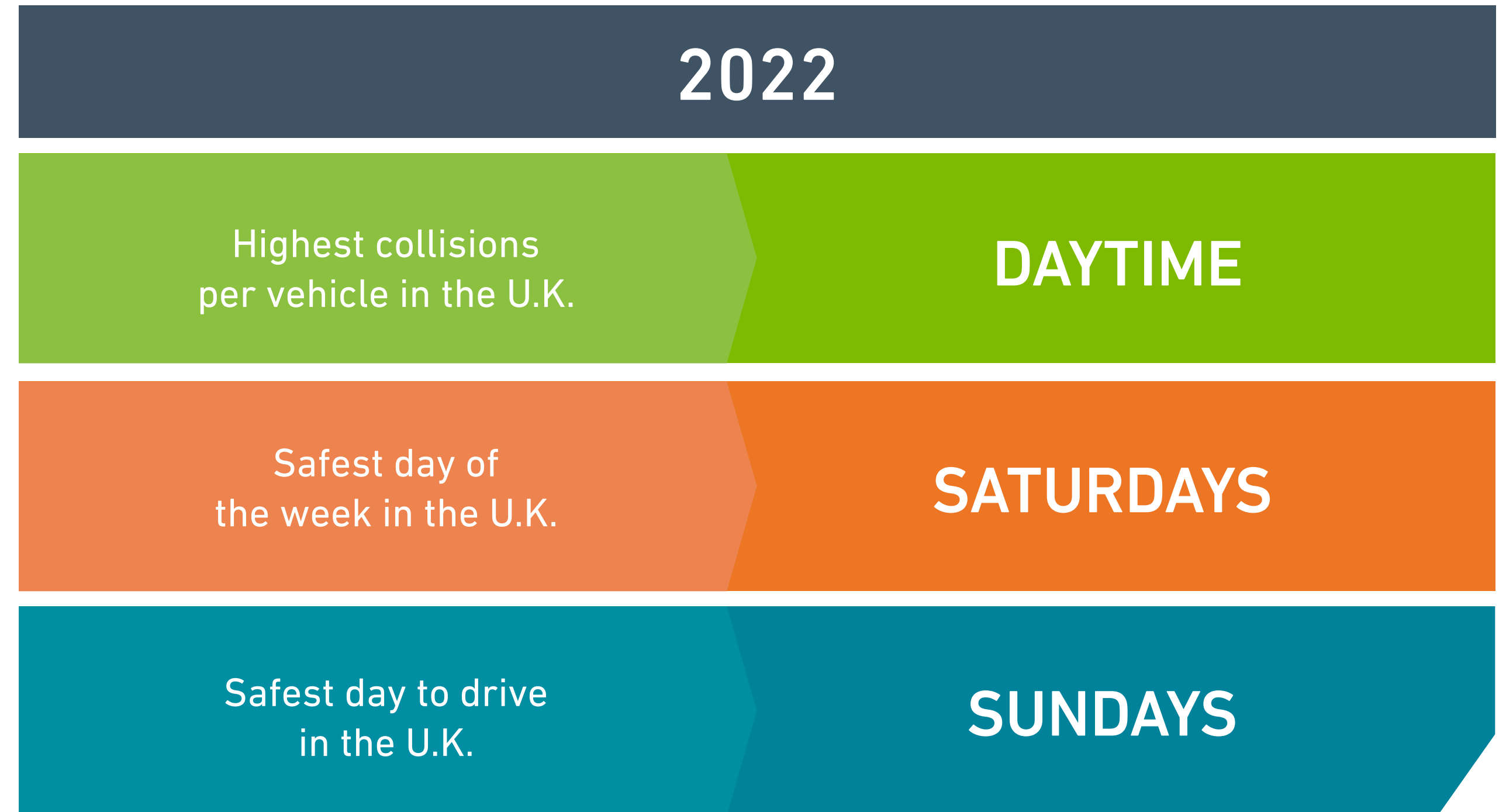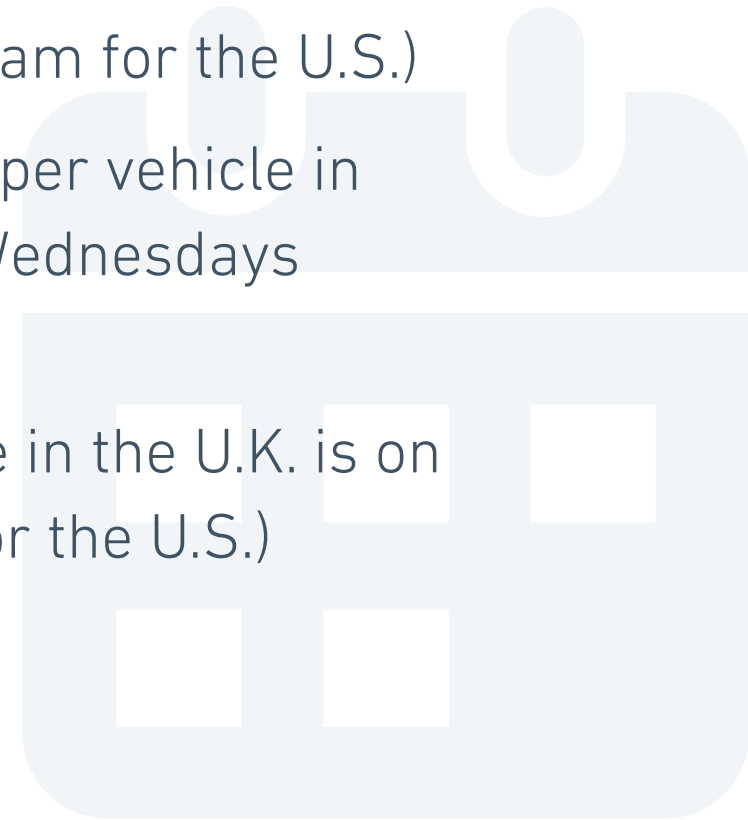**5** Area around Victoria Station (near Buckingham Palace), **London, United Kingdom**

3 Heathrow Airport, Terminal 3, Wallis Rd, Longford, **Hounslow TW6 2GA, United Kingdom**

UNITED KINGDOM

TOP CONTRIBUTORS TO RISK IN THOSE AREAS - 2022 VS. 2021

Behavior | Near Collision | Late Response | Following Distance | Failed to Keep an Eye Out | Other Distraction
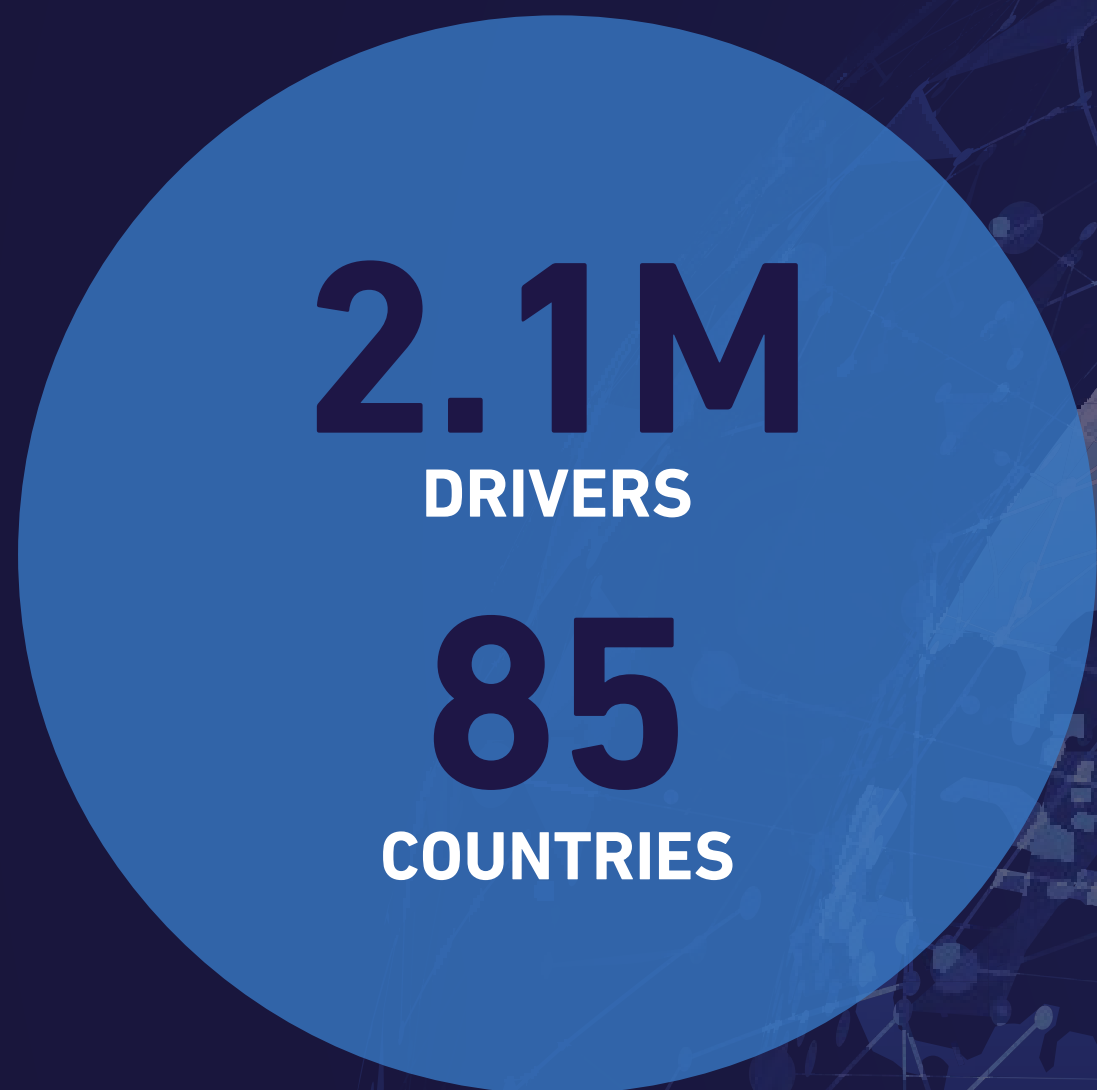
Even the time and day of the week impact the likelihood of a collision

- Similar to the U.S. data, in the U.K. in 2022, the highest total number of collisions took place during the daytime hours, with the most occurring at 12pm (11am for the U.S.)

- The highest collisions per vehicle in the U.K. occurred on Wednesdays (Tuesdays for the U.S.)

- The safest day to drive in the U.K. is on Sundays (Saturdays for the U.S.)

2022	
Highest collisions per vehicle in the U.K.	DAYTIME
Safest day of the week in the U.K.	SATURDAYS
Safest day to drive in the U.K.	SUNDAYS

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2.1M
DRIVERS

85
COUNTRIES

145M
DRIVING EVENTS

55B
MINUTES OF VIDEO

35B
MILES PROCESSED

221B
DATABASE MILES

Lytx's 2023 "State of the Data" report was developed using Lytx Vision Platform data from over **2.1 million drivers** in more than **85 countries**.

Findings were derived by processing over **145 million events** and over **55 billion minutes of video** from vehicles around the world using Lytx's DriveCam® Event Recorders.

The Lytx Vision Platform collected and processed over **35 billion miles** of driving data in 2022, bringing its total driving database to over **221 billion miles** — the largest driving database in the world.