

**Chicago Transit
Authority**

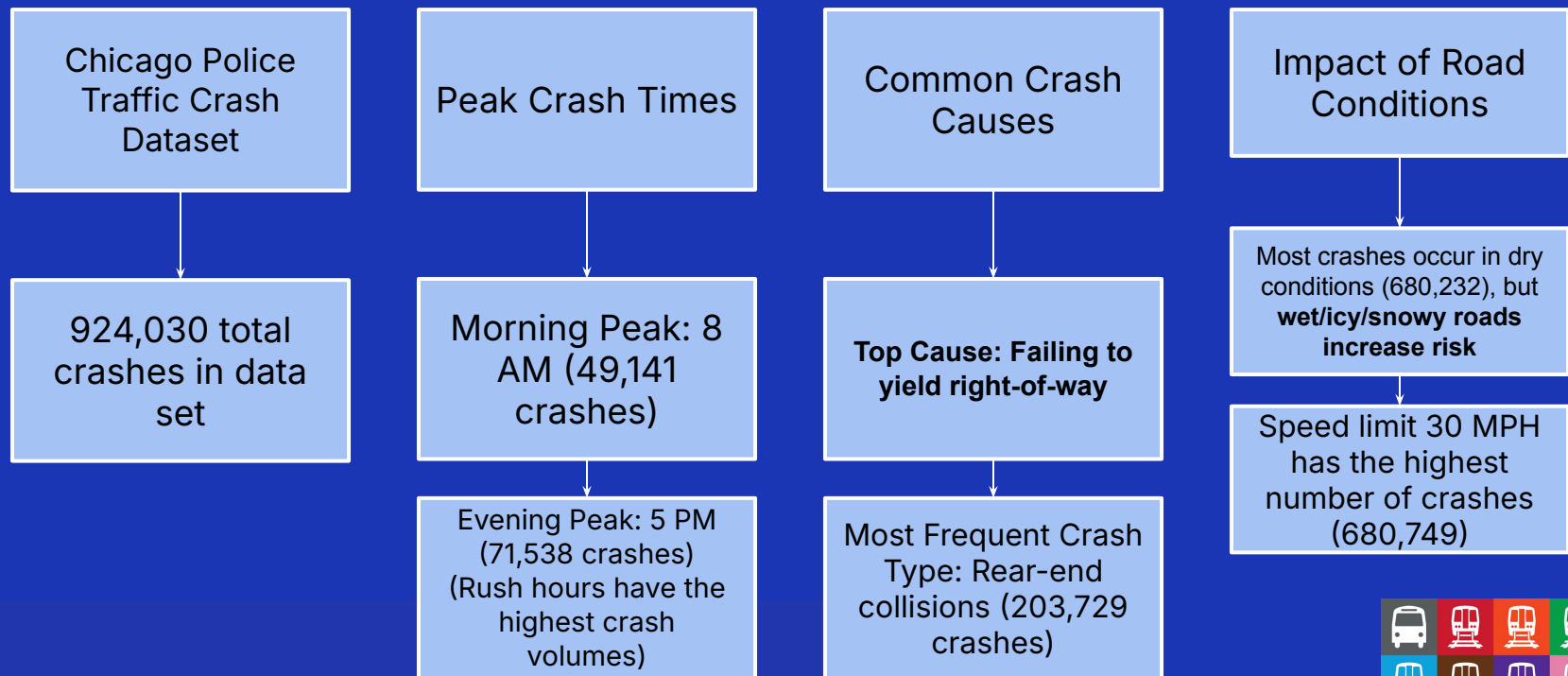
Chicago Traffic Crash Trends & Insights for the CTA

Analyzing traffic crash trends and their
impact on CTA operations

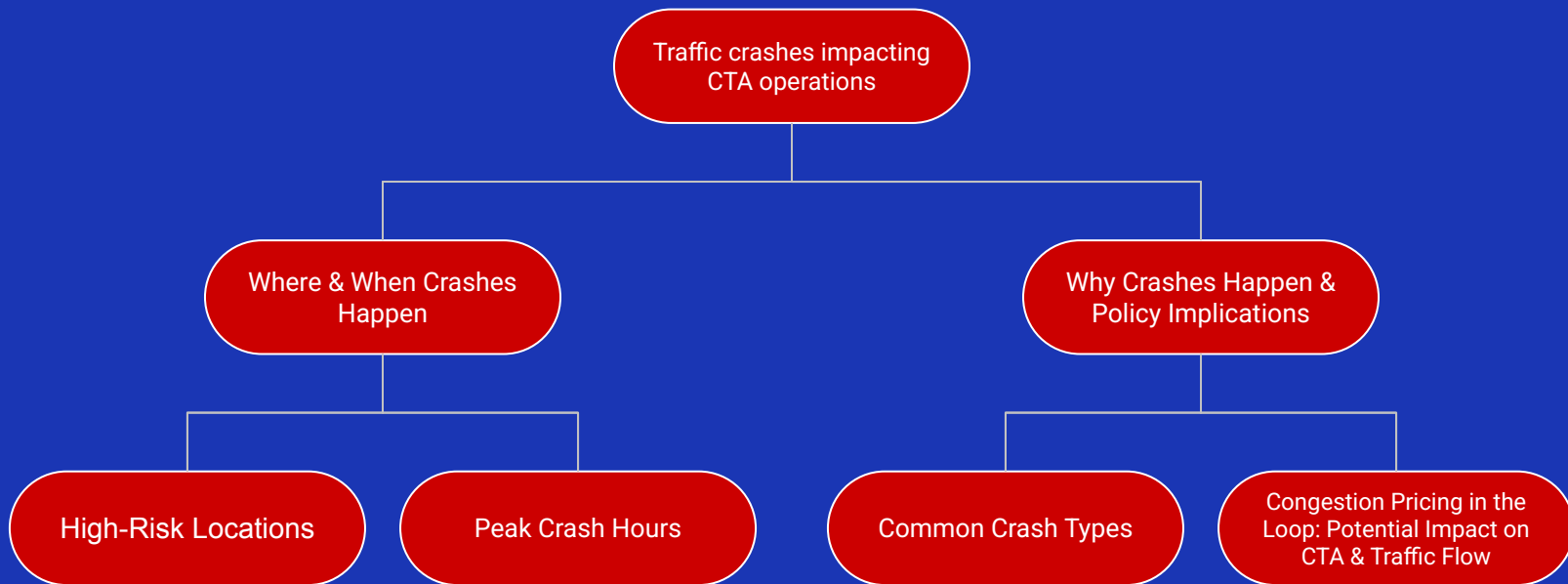
March 11, 2025



Key Crash Statistics: Scope of Analysis



Executive Summary



Section 1: Where & When Crashes Happen

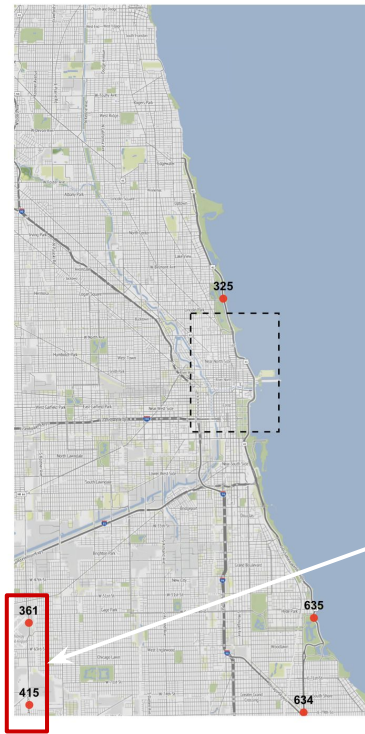
Analyzing where and when crashes happen and their impact on CTA operations



High-Risk Crash Locations

Chicago Traffic Crash Hotspots

Top 10 high-risk locations based on crash frequency



Traffic Crash Hotspots near The Loop

Zoomed-in view of downtown Chicago crashes



Legend ● Crash Sites

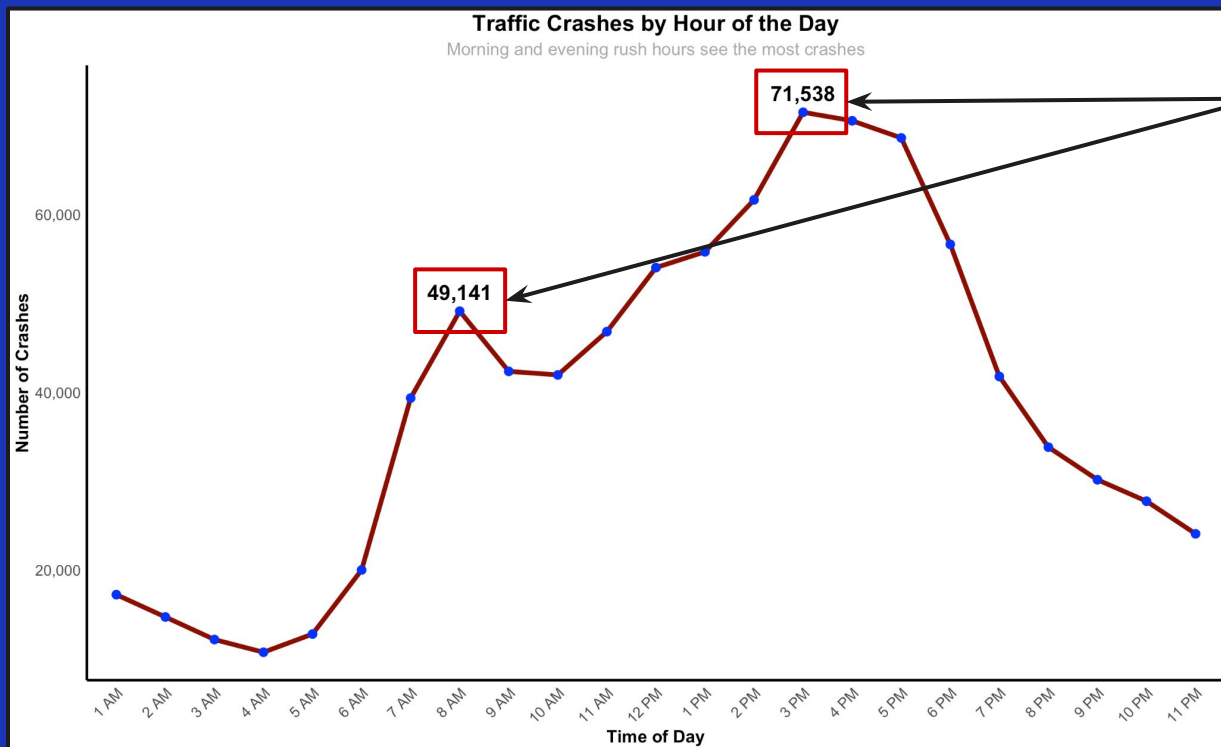
Most crashes occur near the Loop and on key arterial roads

E.g., Western Ave, Pulaski Rd, **Cicero Ave**

CTA bus routes heavily overlap with these crash-prone areas.



Peak Crash Hours



Morning (8 AM) and evening rush hours (3-5 PM) see the most crashes

CTA impact: Peak-hour crashes contribute to bus delays & increased commute times for riders.



Section 2: Why Crashes Happen & Policy Implications

Analyzing the causes and suggesting potential CTA-focused solutions



Most Common Crash Types

Top 5 Most Common Crash Types

Based on reported crash incidents

Crash Type	Number of Crashes
PARKED MOTOR VEHICLE	213,829.00
REAR END	203,729.00
SIDESWIPE SAME DIRECTION	141,921.00
TURNING	133,116.00
ANGLE	100,727.00

Relevance to CTA: Bus stops, turning lanes, and high-traffic intersections contribute to these crashes.

Dedicated bus lanes could reduce rear-end crashes near stops.

Indicative of congestion-related incidents.



Speed & Roadway Conditions Impact

Why does this matter?

30 MPH zones have the most crashes, covering key CTA routes

Wet, icy, and snowy roads increase risk, especially in winter when CTA is crucial

Top 5 Speed Limits with the Most Crashes

Based on reported crash incidents

Speed Limit (MPH)	Number of Crashes
30	680,749.00
35	60,827.00
25	59,514.00
20	38,753.00
15	32,937.00

Top 5 Roadway Surface Conditions During Crashes

Based on reported crash incidents

Road Condition	Number of Crashes
DRY	680,232.00
WET	120,743.00
SNOW OR SLUSH	30,069.00
ICE	6,620.00
SAND, MUD, DIRT	329.00



Section 3: Policy Recommendation – Congestion Pricing in the Loop

Proposing a data-driven policy solution relevant to CTA & city planning



The Case for Congestion Pricing

High crash rates near the Loop during peak hours.

Refer to Slide 5 for crash hotspots



Increased CTA bus delays due to congestion during peak hours

Refer to Slide 6 for congestion during peak hours



Need for Congestion Pricing

- Potential Benefits:
 - Fewer private vehicles → Reduced crashes.
 - Improved bus travel times & reliability.





Conclusion: Key Takeaways & Next Steps for CTA Consideration

How the CTA can mitigate crash risks and improve mobility in high-impact areas



Key Takeaways

High crash density in the Loop & major corridors.

Rush hour crashes disrupt CTA services.

Congestion pricing can ease traffic & improve transit reliability.



Next Steps for CTA Consideration

1 Partner with CDOT to assess congestion pricing impact & feasibility.

2 Implement bus priority measures in high-crash areas.

3 Develop targeted crash reduction strategies for key transit routes.



Final Thoughts

By leveraging congestion pricing and data-driven transit improvements, CTA can enhance efficiency and safety for Chicago's commuters.



Thank You

