

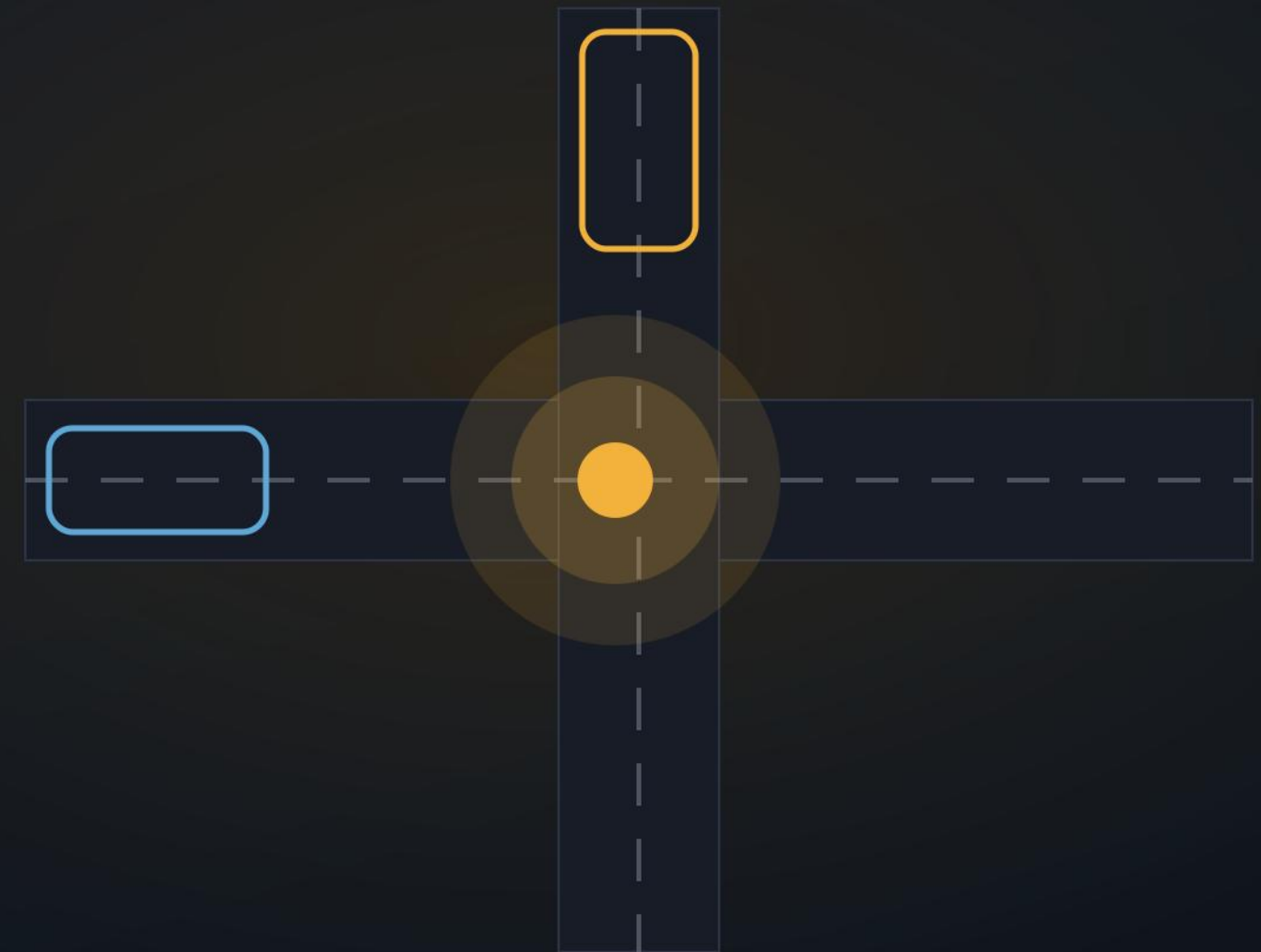
AUTOMOTIVE & TRANSPORTATION · CASE STUDY

# Automotive & Transportation

*Collision reconstruction, made undeniable.*

FIVE DEMONSTRATIVE PANELS

[VIEW THE FULL CASE STUDY · PDF →](#)



**Loli Mari Montalvo**

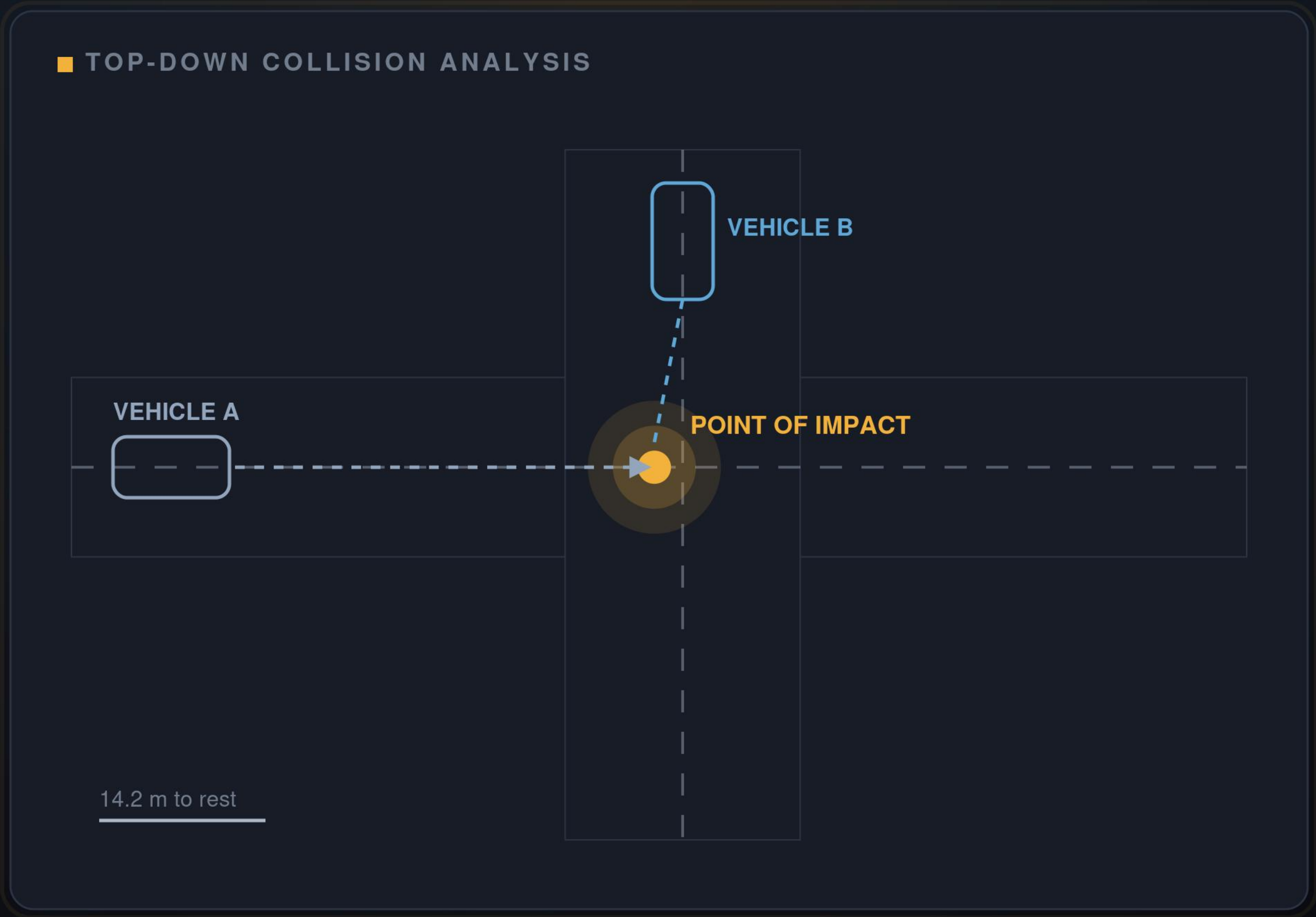
Creative Director · Litigation Visual Strategy

[lolimari.com](https://lolimari.com)

CASE 01 · RECONSTRUCTION

# Reconstructing the Collision

*Vehicle paths and the point of impact, to scale.*



**48 mph**

closing speed

**< 2 s**

to react

**14.2 m**

skid to rest

CASE 02 · SEQUENCE

# The Seconds Before Impact

*Perception, reaction, and braking, second by second.*

■ FROM HAZARD TO IMPACT



1.4 s  
reaction time

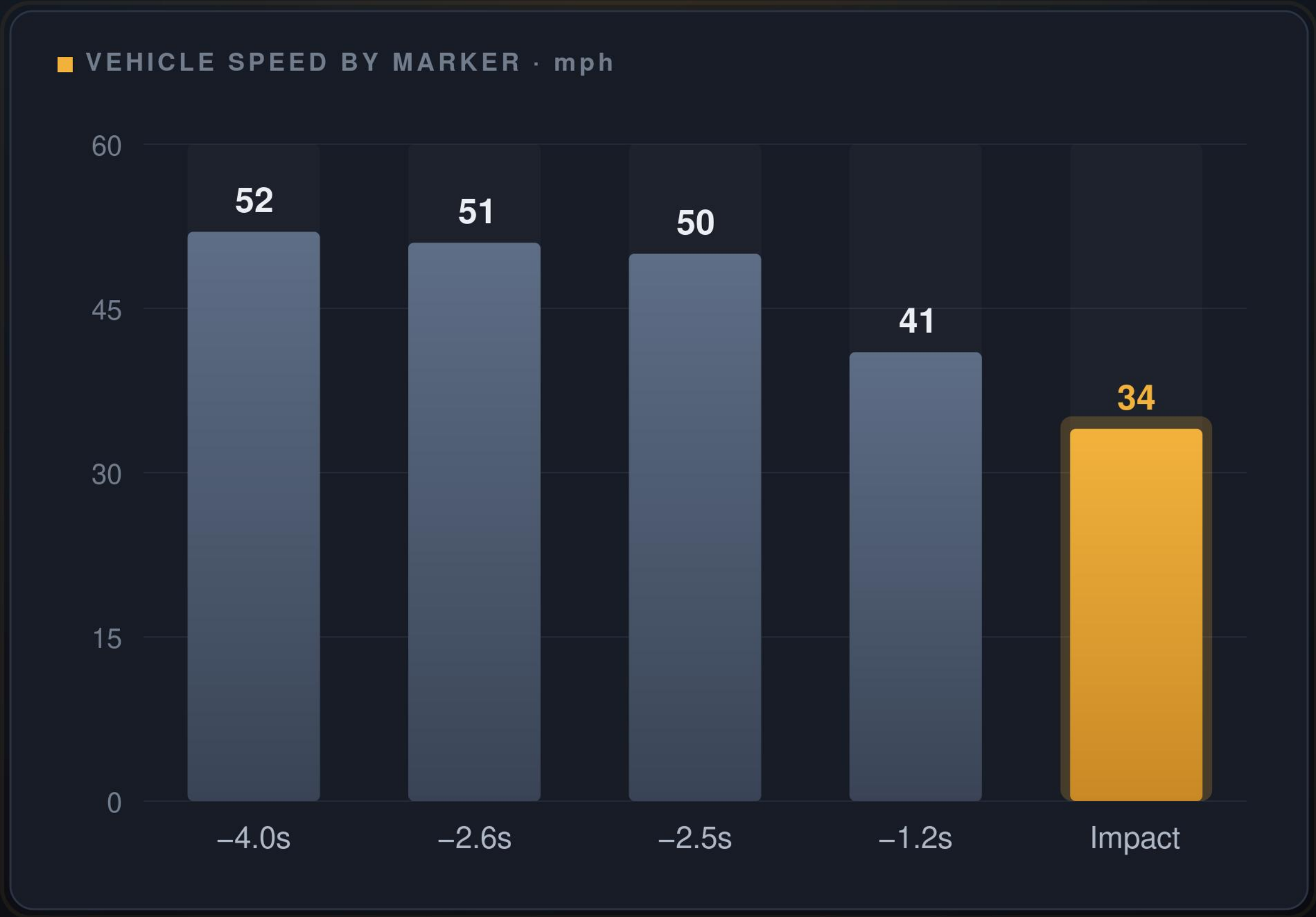
-2.5 s  
brakes applied

0.0 s  
impact

CASE 03 · FORCES

# Speed & Impact

Speed at each marker on the way to impact.



34 mph

impact speed

32 g

peak deceleration

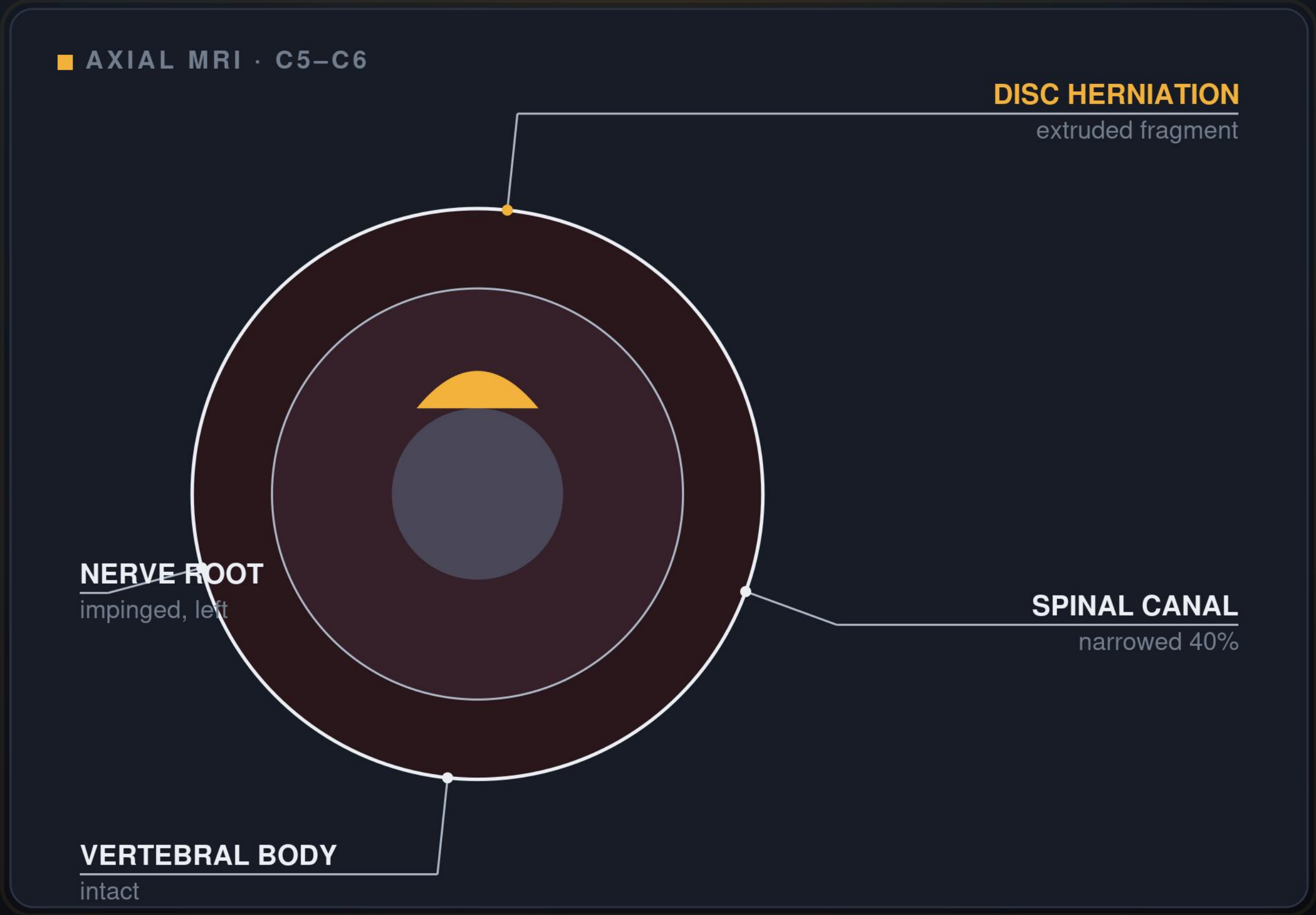
$\Delta v$  41

mph change

CASE 04 · INJURY

# The Injury

*Cervical spine injury, made legible.*



**C5–C6**

disc injury

**40%**

canal narrowing

**MRI**

confirmed

CASE 05 · PRESENTATION

# Before the Jury

*The reconstruction, staged.*

■ COLLISION RECONSTRUCTION ON SCREEN

EXHIBIT 7 — POINT OF IMPACT



The diagram consists of a white circle centered in the frame. Below the circle is a solid orange dot. A horizontal orange line extends from the dot to the right, ending at the word "exhibit" in orange text.

*“At 48 miles per hour, the driver had under two seconds to react — not enough to stop.”*  
— Accident-reconstruction engineer



3.2x

comprehension

48 mph

closing speed

< 2 s

to react