

Deadly Blind Spots











Florida DOT: 2010 Report on Evaluation of Camera-based systems to reduce transit bus side collisions





THE

PERFECT STORM

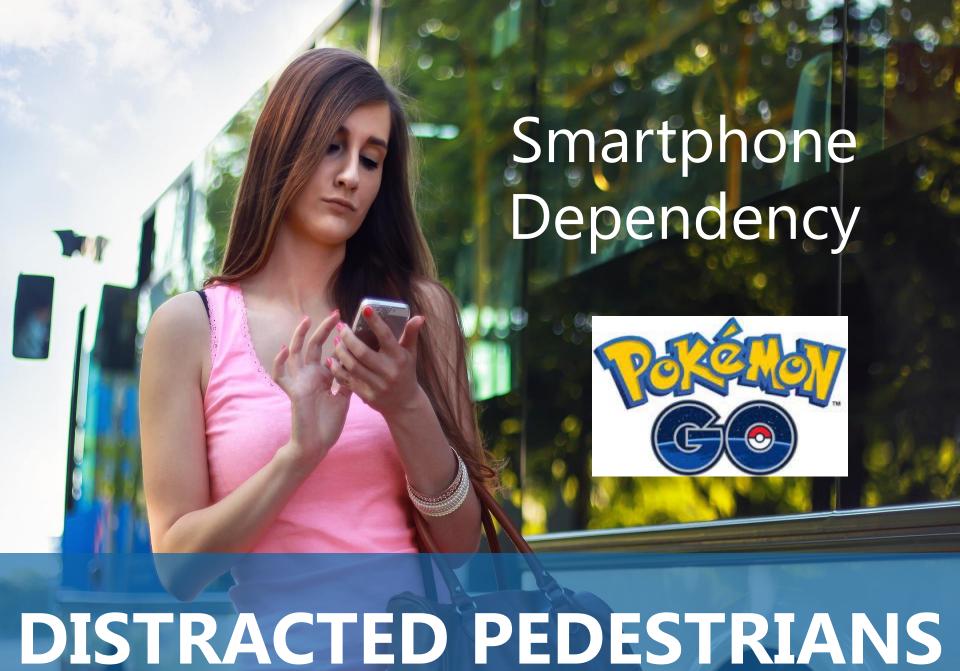
CHALLENGES



URBAN CONGESTION



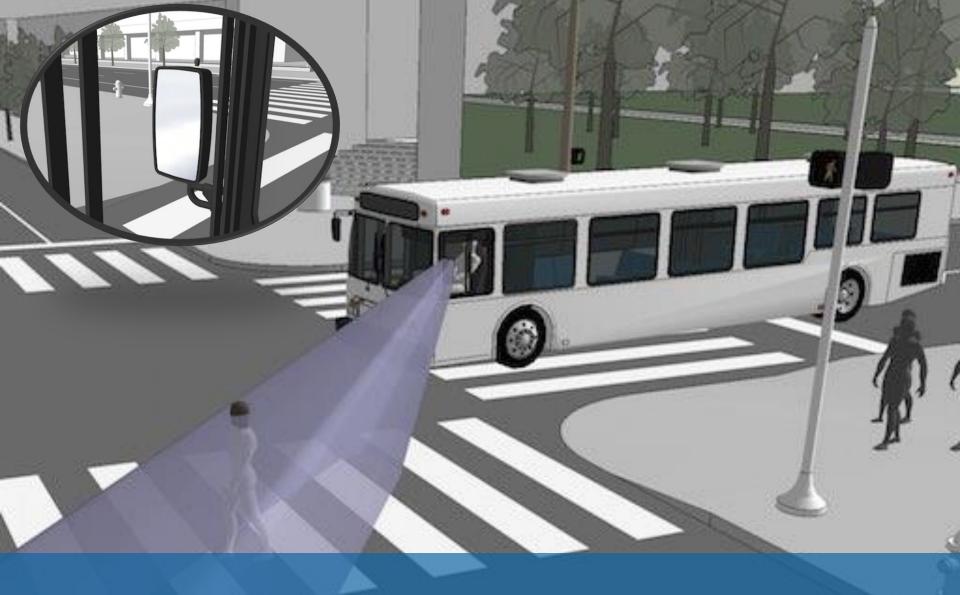
TRAFFIC ENGINEERING





DRIVER DISTRACTION





BUS BLIND SPOTS







ACCIDENTS ARE PREVENTABLE



"We should be looking at changes that give operators the best visibility... we should also be looking at advanced technologies that have the potential for exponentially increasing pedestrian protection."

> **Dr. Mark Rosekind** Administrator, NHTSA

"It has to happen today. We need the technology to compensate for the blind spots on the bus."



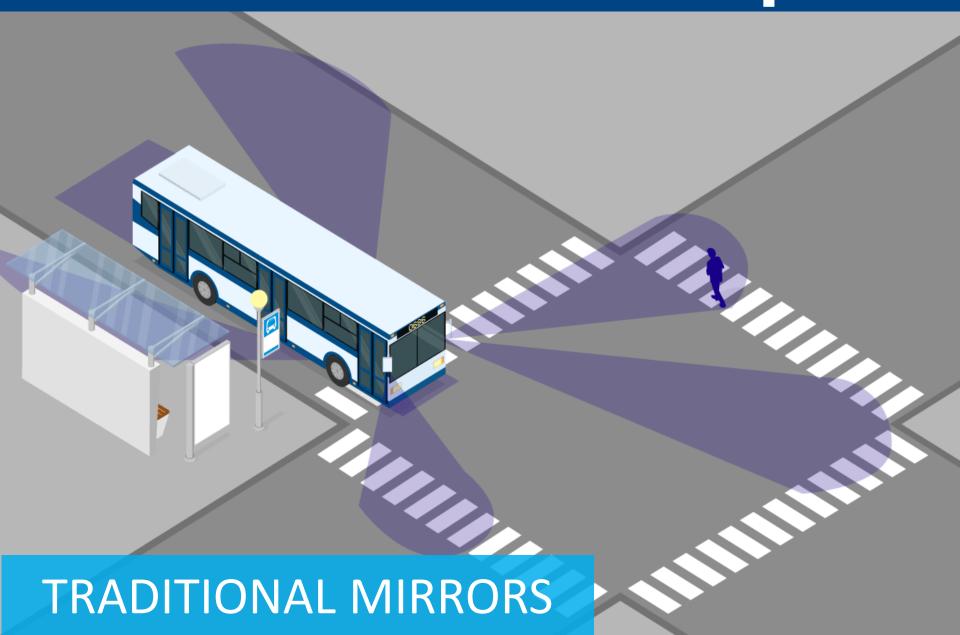
J.P. Patafio
Transport Workers Union Local
100

VISION ZERO

- ✓ Street design
- ✓ Enforcement
 - ✓ Outreach
 - Legislation
 - ✓ Campaigns

GOAL: ZERO LIVES LOST

Common Bus Blind Spots



Mirror vs. Camera Views







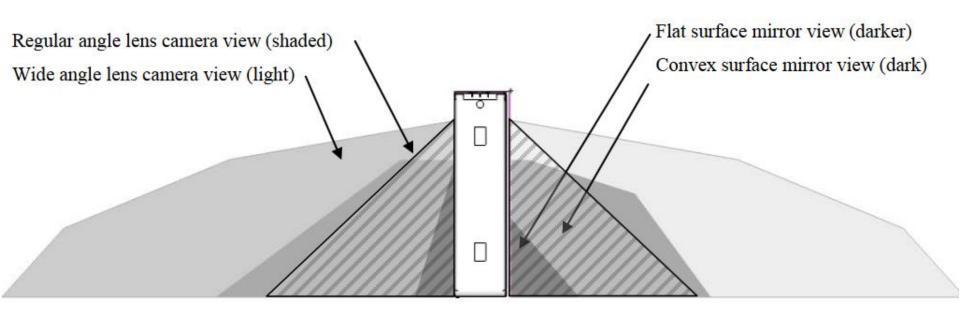








Coverage Comparison



Side views: Mirrors vs. Cameras









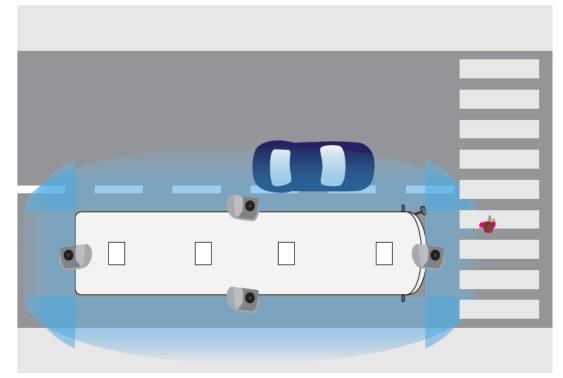


2010 FDOT STUDY CONCLUSION

 "Camera-based systems can significantly reduce bus blind spots over mirror and sensor-based systems."

45-63%
VISIBILITY
IMPROVEMENT

360 Camera Systems





4 cameras blended & stitched into a single bird's eye view



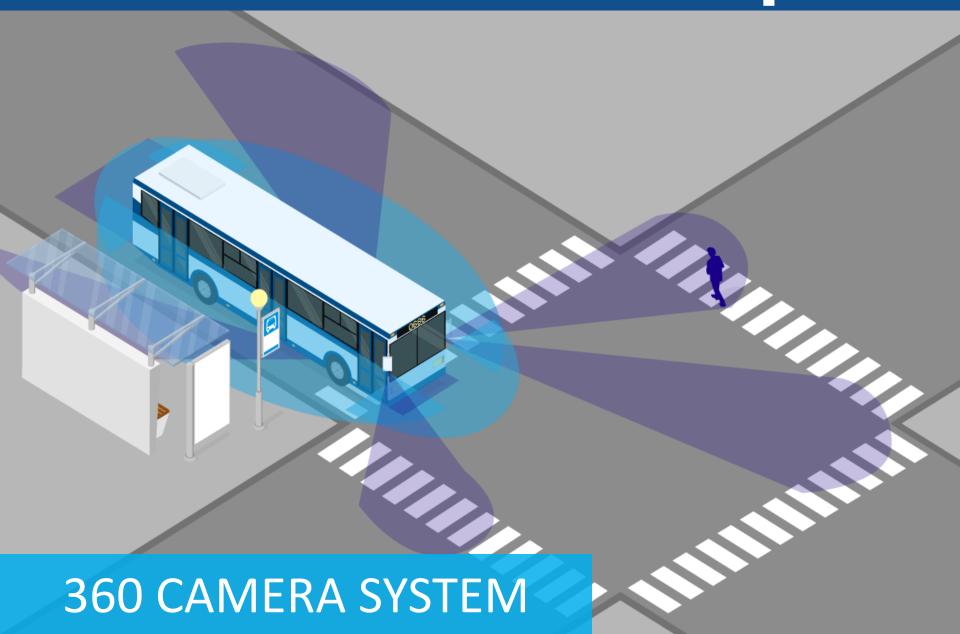




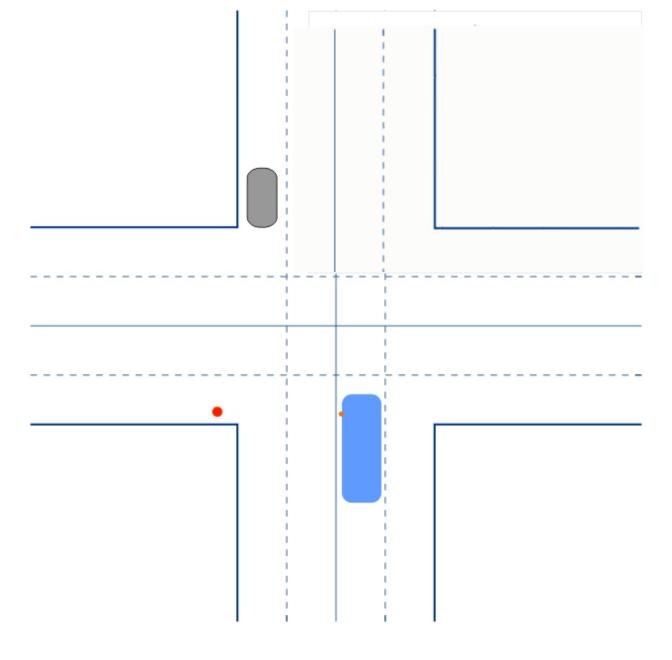


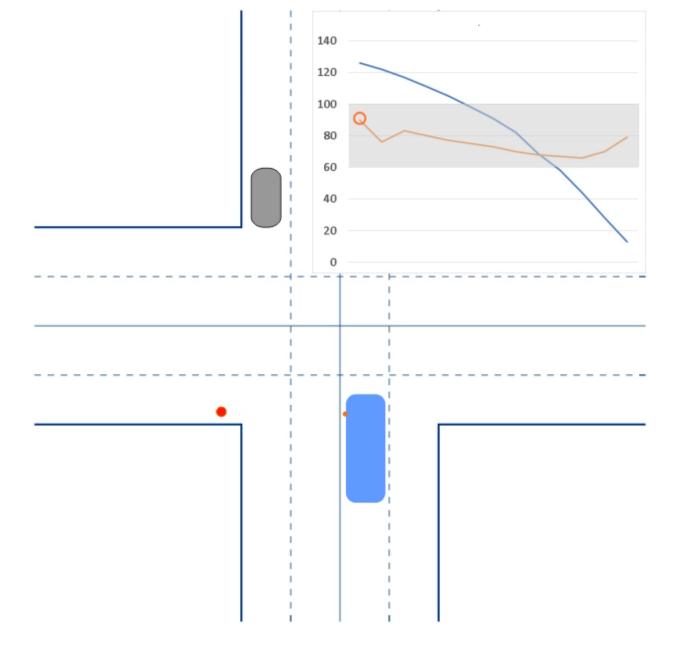


Common Bus Blind Spots









The Solution: **Total Integration**



MIRRORS

CAMERAS

SENSORS



OUR VISION. ZERO BLIND SPOTS.