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DISCUSSING THE VALUE OF IMPLEMENTING NEW TECHNOLOGY TO IMPROVE PUBLIC SECTOR OUTCOMES

AV, CV, Smart Pedestrian Intersections & Smart Transit Shelters

ITS Texas
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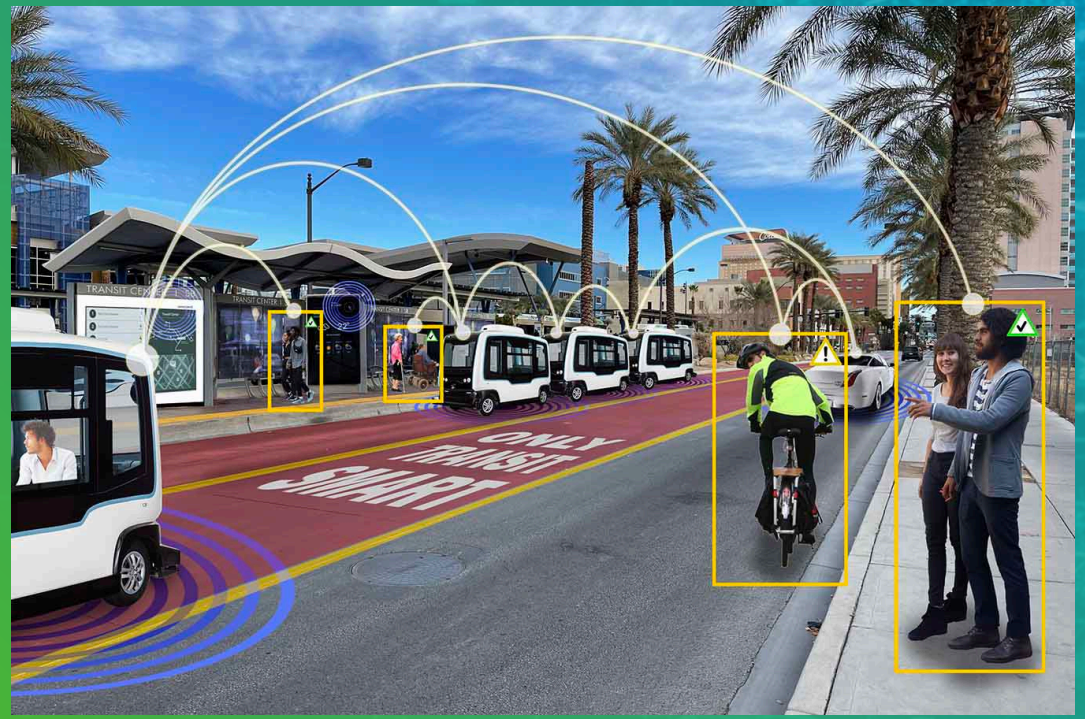
PROJECT INTRODUCTION



- A transformative Intelligent Transportation Systems (ITS) initiative in the Las Vegas Medical District (LVMD).
- Developed by the Regional Transportation Commission of Southern Nevada (RTC) and City of Las Vegas (CLV).
- Designed to deliver safe, sustainable, and connected mobility in a vital community hub.
- Key Features:
  - Autonomous shuttles as a stress-free and accessible mobility solution.
  - Smart Transit Shelters with real-time digital signage.
  - Advanced pedestrian detection systems for enhanced safety
- Impact:
  - Supports nearly 200,000 patient, staff and medical student commutes annually.
  - Improves access to medical facilities, educational institutions, and community destinations.

STAKEHOLDERS AND BENEFICIARIES

Key Stakeholders:

- Regional Transportation Commission (RTC) of Southern Nevada
- City of Las Vegas
- Contractors
- Technology providers

Beneficiaries:

- Broader community (healthcare, education, employment access)
- Elderly residents
- Persons with disabilities

TECHNOLOGIES BEING IMPLEMENTED

Pedestrian Detection Systems

Sensors and systems enhancing pedestrian safety

- Iteris (radar)
- FLIR (thermal)

Connected Vehicle Road Side Units

Infrastructure providing information to connected vehicles

- Iteris RSU

Smart Transit Shelters

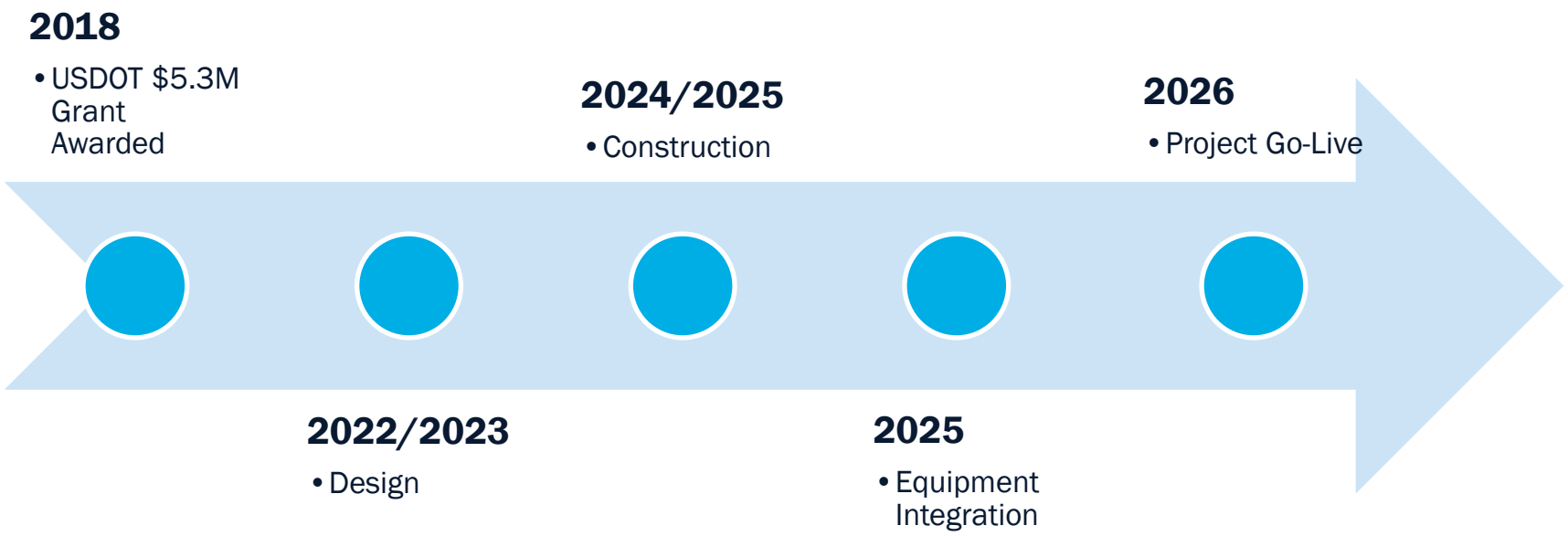
Shelters with real-time information and safety and convenience features

(Smart displays, smart trashcans, cameras, sensors)

Autonomous Shuttles

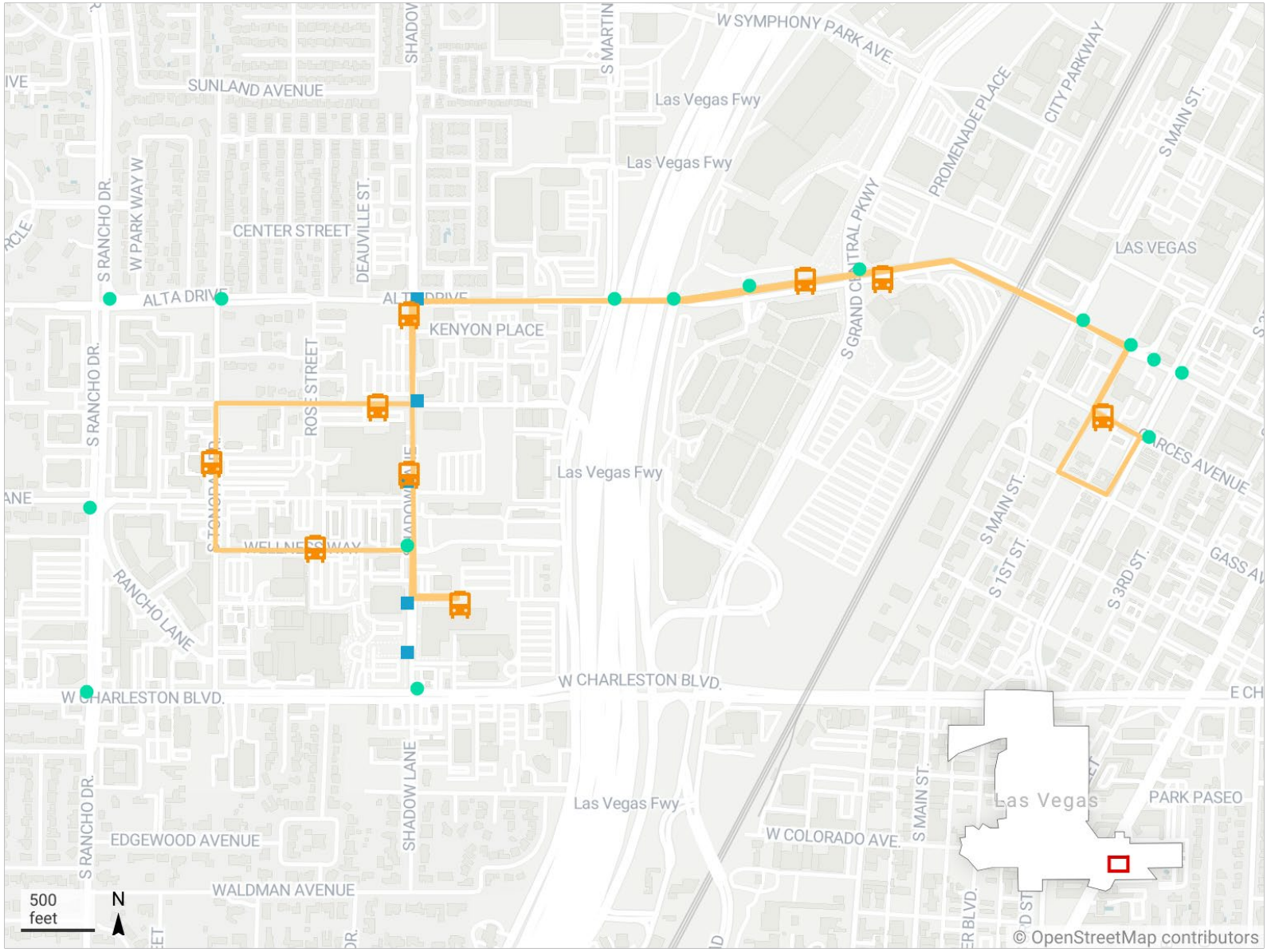
Self-driving shuttles connecting key locations

TIMELINE OF THE PROJECT



DEPLOYMENT AREA

- **Las Vegas Medical District**
- 674-acre (273-hectare) cluster of hospitals, clinics, and the University of Nevada, Las Vegas School of Medicine
- Shuttles from a downtown transit hub to the LVMD



GOALS AND VALUE PROPOSITION

Goals

- Improve mobility for vulnerable populations.
- Enhance safety and quality of life.
- Reduce congestion and emissions.
- Demonstrate the feasibility of innovative technologies.

Value Proposition:

- Connecting people to vital services with short wait times, accessible vehicles and stops, safer crossings and easy wayfinding.
- Reliable, low-speed, ADA-friendly service that connects vulnerable users (elderly, persons with disabilities) to vital services for first/last-mile and short circulator trips.
- Potential to lower labor-driven operating costs at maturity; right-sized vehicles better match demand; data-driven routing and maintenance.

IMPLEMENTATION AND LESSONS LEARNED

Implementation:

- Collaboration between state and local agencies.
- Integration of AV/CV technologies with existing infrastructure.
- Deployment of smart pedestrian intersections and transit shelters.
- Leveraging existing projects and procurements:
  - Implementation team
  - Building off another successful national AV deployment in Florida

Lessons Learned:

- Challenges around:
  - Public acceptance
  - Technical hurdles
  - Interoperability
  - Implementing new technologies into legacy infrastructure
- Successes
  - Improved accessibility, safety outcomes
  - Great public interagency collaboration
  - Trust between public and private implementors

I IMAGINED NEXT

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Scan to learn more.

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