Move Utah

ACTIVE, HEALTHY, CONNECTED COMMUNITIES

What the Health? How innovative mobility solutions will impact active, healthy, connected communities

GOLD LEVEL PARTNERS

X-FACTOR STRATEGIC COMMUNICATIONS

Horrocks.

Utah Department of Health & Human Services

GET HEALTHY UTAH

MOVE UTAH
ACTIVE • HEALTHY • CONNECTED COMMUNITIES

SILVER LEVEL PARTNERS

MAG

WASATCH FRONT REGIONAL COUNCIL

SALT LAKE COUNTY
PLANNING & TRANSPORTATION

UTAH LEAGUE OF CITIES AND TOWNS

GOVERNOR'S OFFICE OF PLANNING AND BUDGET

UTA

ULI Utah

WSP

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BRONZE LEVEL PARTNERS

AECOM

FELSBURG HOLT & ULLEVIG

BIO-WEST

DAVID EVANS AND ASSOCIATES INC.

Parametrix
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Sam Schwartz
A TYLin Company

PENNA POWERS

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STUDENT SCHOLARSHIPS

FEHR PEERS

SUMMIT FRIENDS

APA UT

GREENbike
UTAH'S NON-PROFIT BIKE SHARE
TEN YEARS

LOUIS ALLORO
CHAMPION OF CHANGE

BICYCLE COLLECTIVE

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ACTIVE • HEALTHY • CONNECTED COMMUNITIES

SPEAKERS

Blaine Leonard
UDOT

Shaina Quinn
UTA

Clint Harper
NASA

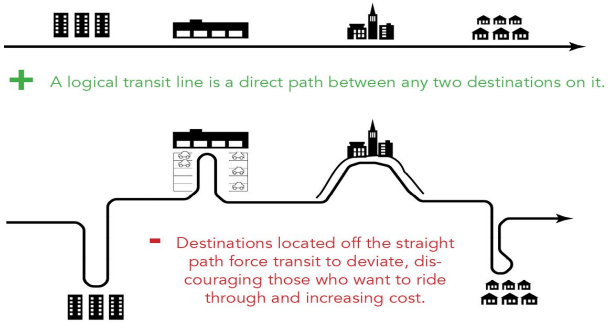
Move Utah
What the Health?

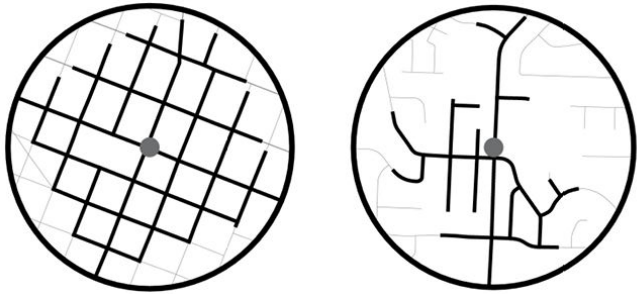
Shaina Quinn

Program Manager, Innovative Mobility Solutions

Utah Transit Authority

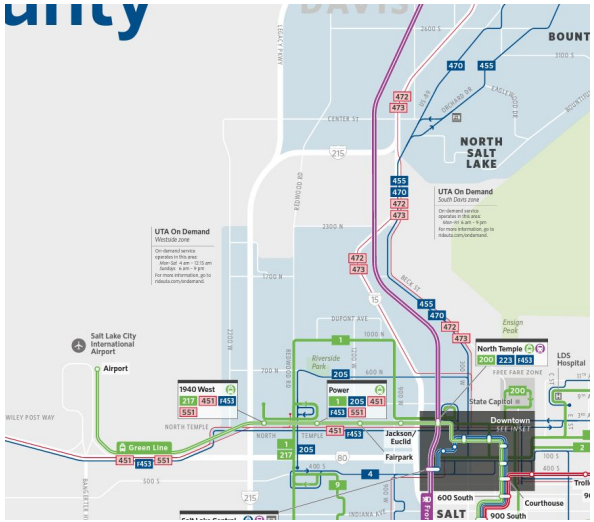
Background : Public transportation IS active transportation





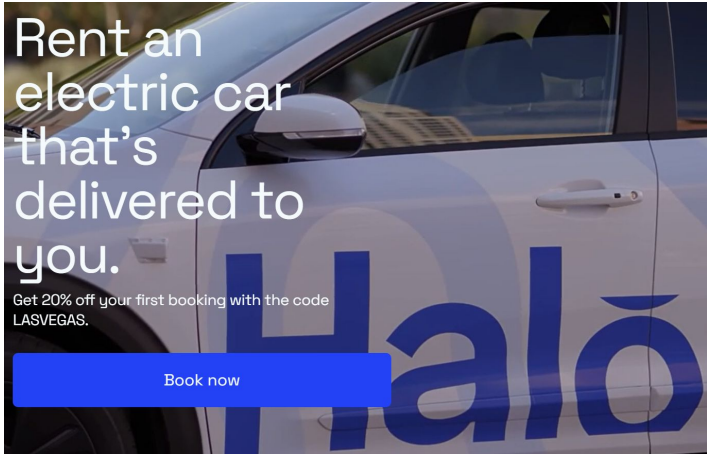
2030 UTA Strategic Plan : Better Quality of Life

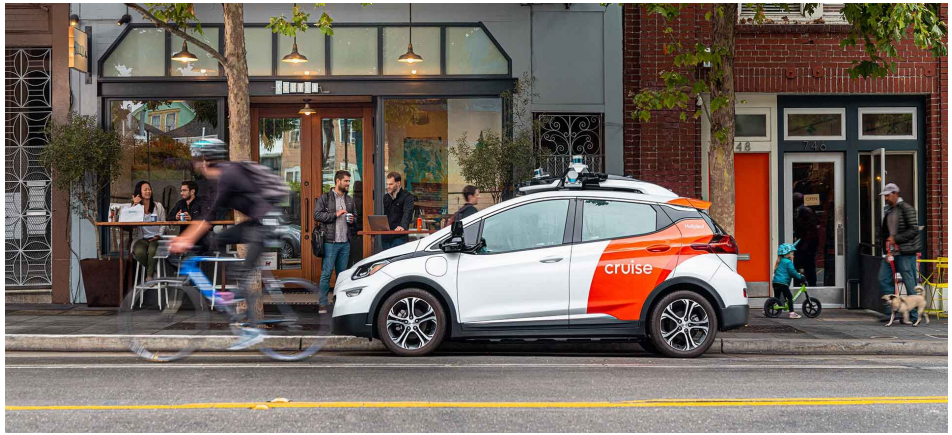
- **More access:** close to where 75% of people live
- **Clean air:** electric and other zero emission vehicles



UTAH TRANSIT AUTHORITY


Stagecoach
autonomous bus
autonomous bus
Stagecoach


Rent an electric car that's delivered to you.
Get 20% off your first booking with the code LASVEGAS.
Book now
Halo


cruise


Ride UTA
August 11 ·
The #AVShuttle is back at The University of Utah. This driverless vehicle operates Monday – Friday from 9 a.m. to 3 p.m. Take a spin on the #AVShuttle and visit www.avshuttleutah.com for more info and to give us your feedback. Due to COVID, additional safety measures are being taken, masks are required and limit 4 passengers. @UtahDOT @utahtransportation
47
15 Comments 10 Shares
Like
Comment
Share

UTA

2030 UTA Strategic Plan : Exceeding Customer Expectations

Summary

1. Land use that benefits transit is healthy
2. UTA is innovating for better quality of life and rider experiences

What the Health?

Improving Traveler Safety and Efficiency with Connected Vehicles

Blaine D Leonard, P.E., D.GE, F.ASCE
Transportation Technology Engineer
Utah Department of Transportation

UDOT Keeping Utah Moving
TRANSPORTATION TECHNOLOGY

UDOT Keeping Utah Moving

Connected Vehicle Deployments

(vehicles talking to the infrastructure)

Benefits:

- Improved Safety / Fewer Crashes (long term)
  - Information & warnings to the driver / system
  - Attention to vulnerable road users
  - More efficient snow & ice removal
  - **Synergy** with automated vehicles / redundancy
- More efficient transit operations (short term / day one)

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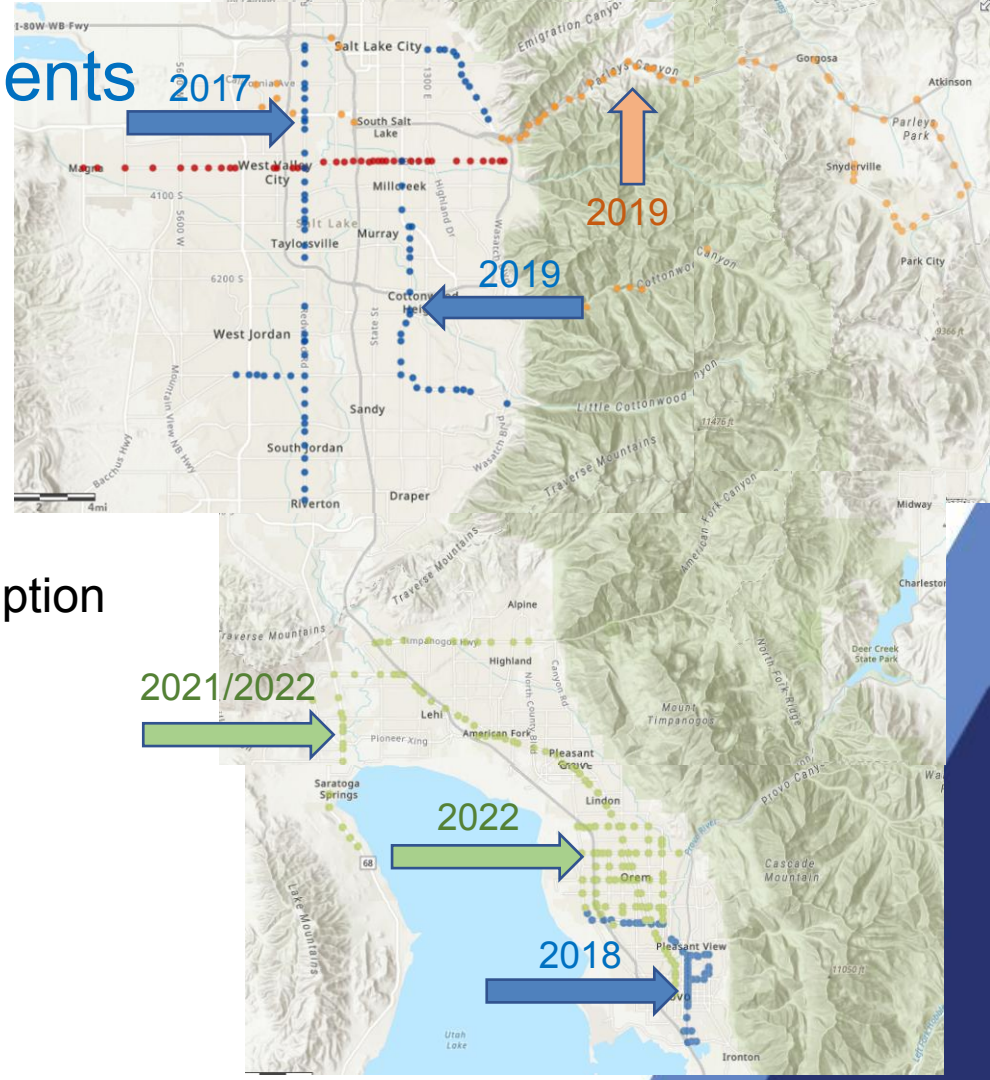
Connected Vehicle Deployments

Current Deployment:

- 338 Roadside Units
- 271 Equipped Vehicles

Applications:

- Transit Signal Priority
- Snowplow / Emergency Vehicle Preemption
- Vehicle Insights (weather / crash)
- Spot Weather Impact Warning
- Curve Speed Warning



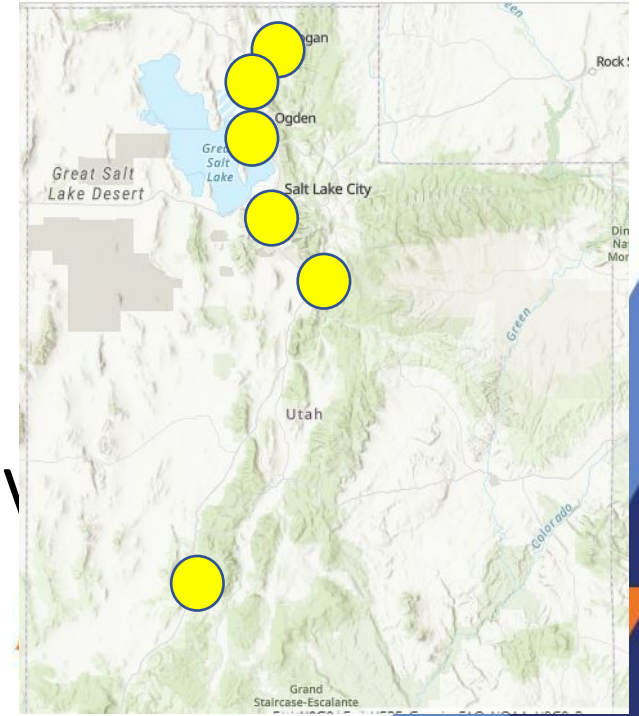
Connected Vehicle Deployments – 2023/2024

Applications under development:

- Rural applications – intersection warning, variable speed limit
- Intersection safety – Bike/Ped warning
- Air Quality measurement / mitigation

Deployments

- 156 RSUs
- 317 OBUs
  - Buses, Plows, Freight Trucks, Fleet V



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Using LiDAR for Vulnerable Road User Detection

LiDAR shows promise for:

- Precise detection of Vulnerable Road Users
- Analytics (AI/ML) for near miss evaluation

Evaluation Locations:

- 600 N 300 W SLC
- 2011 S Redwood Road

Connected Vehicle goal:

- Send message warning of VRU presence / location to drivers
- Prevent crashes

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