



North Central Texas Council
of Governments

Automated Transportation Systems

Bryce McMeans

Regional Freight Advisory Committee

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Automated Transportation Systems Defined

Automated Transportation Systems (ATS):

Automated vehicles operating on fixed routes

Could operate in mixed traffic or on elevated guideways

The Basis of ATS:

- Flexible vehicle technology to adjust for changing needs/demand
- Future-proof systems design for future technology advances
- Vehicle automation and advancing battery technology to minimize operational costs while maximizing service



Automated Transportation Systems (ATS)

NCTCOG ATS Goals:

- NCTCOG is looking to address first/last mile connectivity to supplement the broader transit network
- Other technologies/systems have previously filled this roll
 - Automated People Movers
 - As these systems age, they become more difficult and more expensive to maintain
- More real-world deployments of Automated Vehicle technology in recent years

Recent NCTCOG Efforts:

NCTCOG study on the issue culminates in Automated Transportation Systems

- Dallas Midtown Autonomous Transportation System and Shared Parking Feasibility Study (2019)
- NCTCOG Automated Transportation System Development Study (2023)



Automated People Movers

Rail-Based Systems:

- Higher speeds
- Proprietary parts

Elevated Guideways:

- Unrestricted by traffic
- Expensive maintenance

Examples:

- DFW Skylink
- Irving Las Colinas APT



Courtesy of NCTCOG



Automated Vehicles

Rubber-Tired Systems:

Easier maintenance

Mixed Traffic or Dedicated Paths:

Reduced capital investment
in infrastructure

Examples:

- Waymo
- May Mobility (Arlington RAPID)
Fixed-route service



Courtesy of NCTCOG



Current ATS Examples

Circulation within a district, campus, airport, etc.

District:

- Jacksonville – Skyway & The Ultimate Urban Circulator (U2C)
- Las Vegas – Zoox

Campus:

West Virginia University - Morgantown PRT

Airport:

DFW Airport – Skylink



Courtesy of JTA



Potential Applications

First and last mile travel for specific transportation corridors

District:

- In conjunction with remote parking garages
- Reduce SOV use, parking needs

Freight:

- Freight movement within work campus
- Connection to broader freight network



Courtesy of NCTCOG



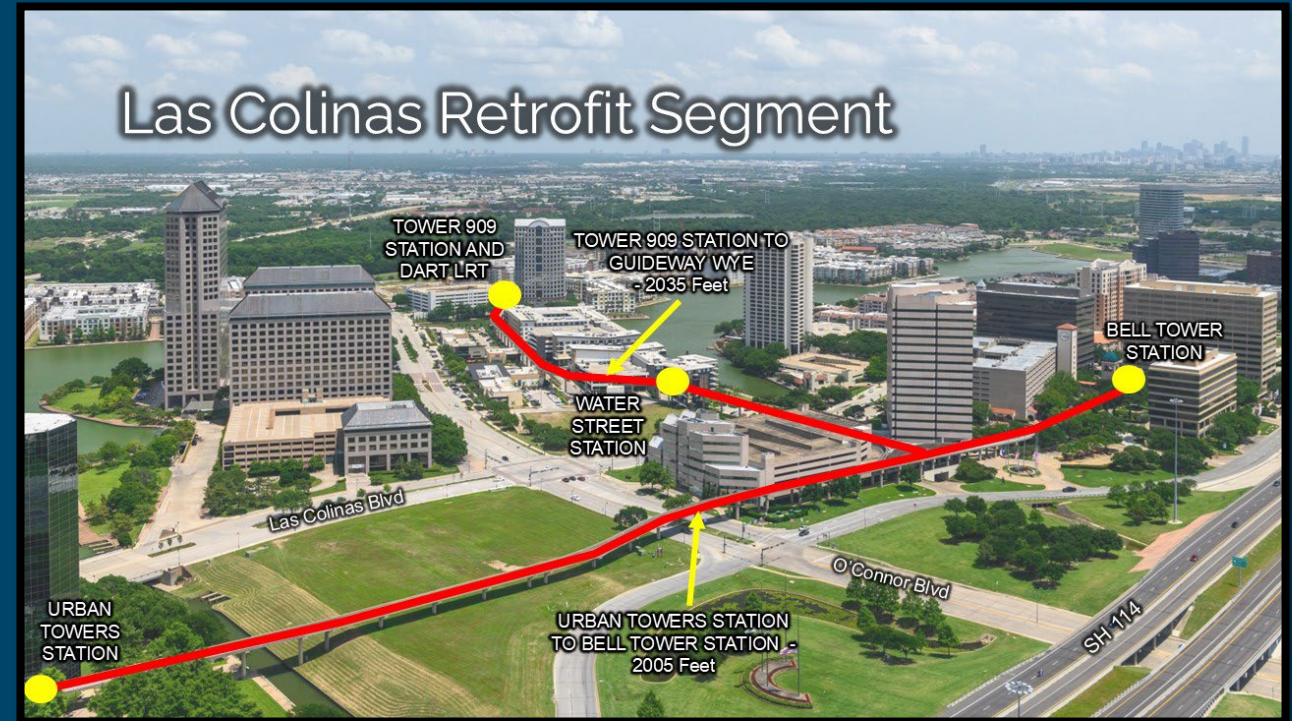
NCTCOG Current ATS Efforts

Las Colinas Automated Transportation System Retrofit:

Develop the engineering for a retrofit of the existing guideway to meet the needs of modern Automated Transportation Systems

Legacy West Automated Transportation System:

Develop the planning, design concepts, and feasibility of the Plano Legacy Area Automated Transportation System



Courtesy of NCTCOG



Certification of Emerging and Reliable Transportation Technology

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Bring technology providers and municipalities together to meet long-range transportation needs

- **J-Pods**: Automated pods on elevated guideway for first/last mile and local transportation
- **Swyft Cities**: Elevated pod/modern gondola for Personal Rapid Transit



Courtesy of Swyft Cities



Questions?



CONTACT US



Jeff Hathcock
Program Manager

jhathcock@nctcog.org | 817-608-2354



Savannah Briscoe
Transportation Planner

sbriscoe@nctcog.org | 817- 608-2347



Mike Johnson
Principal Transportation Planner

mjohnson@nctcog.org | 817-695-9160



Valerie Alvarado
Transportation Planner

valvarado@nctcog.org | 817-640-4428



Bryce McMeans
Transportation Planner

bmcmeans@nctcog.org | 817-695-9240

