



Moving America... fast

Jim Welsh

April 8th, 2025

ALSTOM
• mobility by nature •

Agenda

1. Alstom: we move Americans
2. Texas: More Trains for more Texans
3. Avelia Liberty: the first and only US High Speed Train

01

Alstom: We move Americans

We are where mobility is needed

Over
84,700
employees

from
184
nationalities

Over
254
sites

In
64
countries

Over
23,900
engineers

Over
9,800
granted patents

Over
150,000
vehicles in
commercial service



As of 31 March 2024

Alstom: Largest private rail operator in North America

METROLINK L.A.



26-year partnership

- **OTP: 99.73% in 2023**
- 7 routes, 546 route-mile network
- 60 locomotives, 232 coaches, 3 DMUs
- MOE* since 1998

MARC Baltimore



11-year partnership

- **OTP: 99.58% in 2023**
- 2 lines, 113 miles
- 42 locomotives, 114 coaches
- O&M since 2013
- 10 years without LTI



Orlando



10-year partnership

- **OTP: over 99% in 2023**
- 1 line, 16 stations, 61 miles
- 10 locomotives, 20 coaches
- O&M since 2014
- 5 year without LTI

1,000

Engineers and Conductors
Managed in North America

Over
250

Locomotives Maintained in
North America

Over
1,700

Coach Cars Maintained in
North America

*MOE: Maintenance Of Equipment

Actively partnering with 12 Labor unions across all our sites

Alstom in Texas

Key Figures

5 cities using our solutions

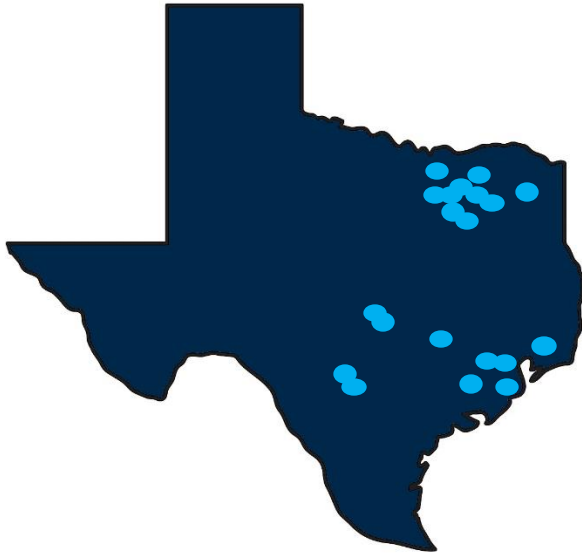
95 employees

100 suppliers+ supporting Buy America



ACTIVE SUPPLIERS

- RS Americas
- Arrow Electronics
- Johnson Control
- McConway
- Panolam
- Luminator
- Thermon
- Horton Automation
- Draco Springs
- Vista Com
- Wabtec



ONGOING PROJECTS



AUTOMATED PEOPLE MOVERS

- 16 Innovia APM 100 vehicles for George Bush Intercontinental Airport Skyway
- 64 Innovia APM 200 vehicles for Dallas Fort Worth International Airport Skylink



ROLLING STOCK

- 25 BiLevel vehicles (passenger and control cars) for Trinity Railway Express



OPERATIONS AND MAINTENANCE (O&M)

- O&M for George Bush Intercontinental Airport Skyway for 15 years
- Maintenance for Dallas Fort Worth International Airport Skylink since 2005



SIGNALING

- Cityflo™ 550 automatic train control and switch machines for George Bush Intercontinental Airport Skyway
- Cityflo™ 650 automatic train control and switch machines for Dallas Fort Worth International Airport Skylink

02

Exciting time for Rail in Texas

Exciting Times for Rail in Texas

Light rail system renewal (DART)

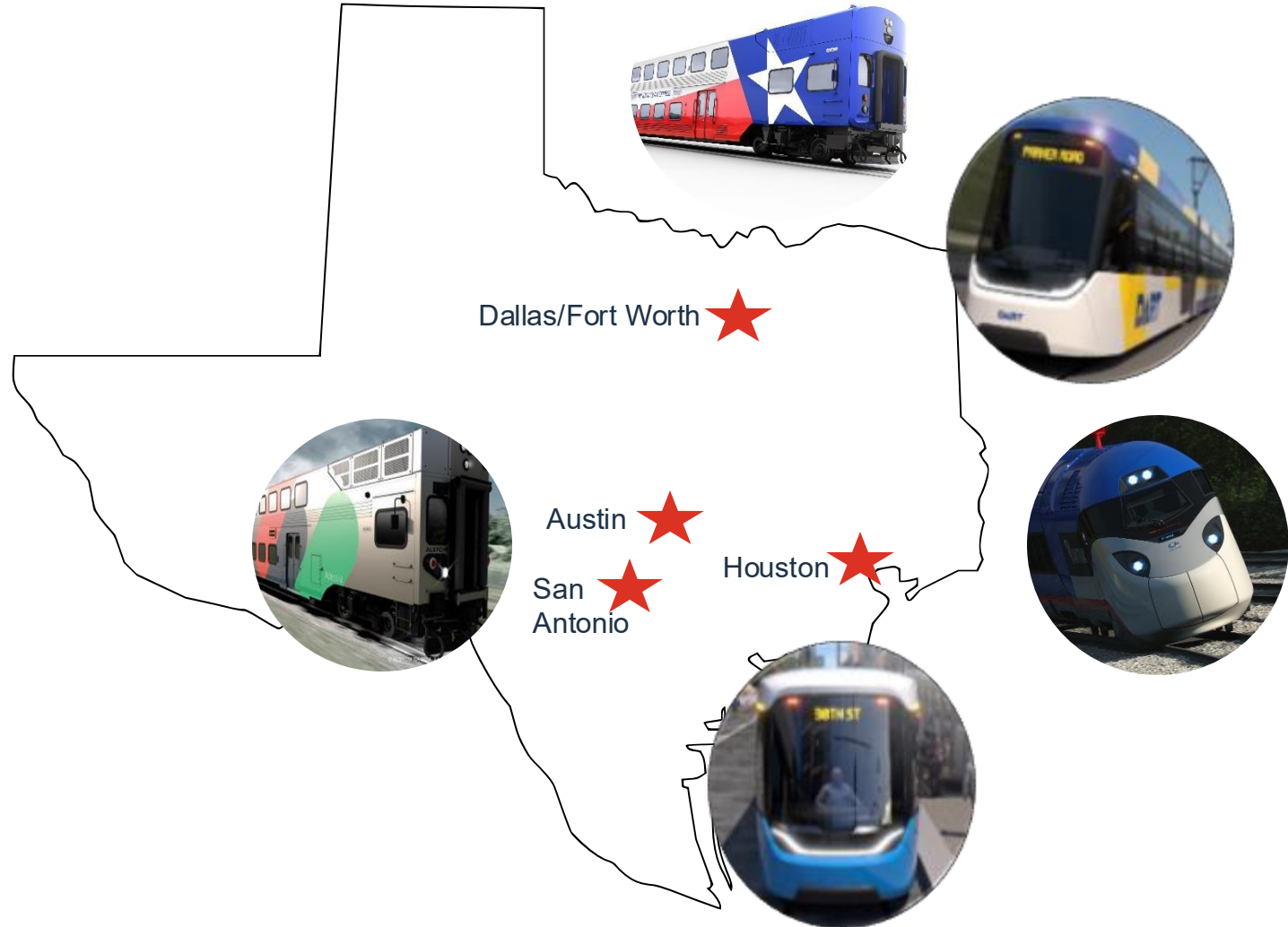
New light rail system (Austin)

Commuter Rail upgrade (TRE)

Expansion to Commuter Rail (Austin)

New High-Speed Rail (Texas Central)

Renewal of Intercity Trains (Amtrak Long Distance)



Amtrak Long Distance: An essential service to connect America



03

Avelia Liberty: the first and only US High Speed Train

High Speed Rail: A multitude of socio-economic benefits



Access to affordable housing



Reduction of highway traffic



Safer intercity travel



Reduction of greenhouse gas emissions



Bringing cities together



Enhanced intermodal travel



Economic Development



Best use of land

Alstom Avelia™ – key facts



Half of the world's high-speed fleet is running with Avelia technology



Alstom has more than **40** years of experience in high-speed speed trains



Over **2200** trains with Alstom technology sold globally in **26** countries.

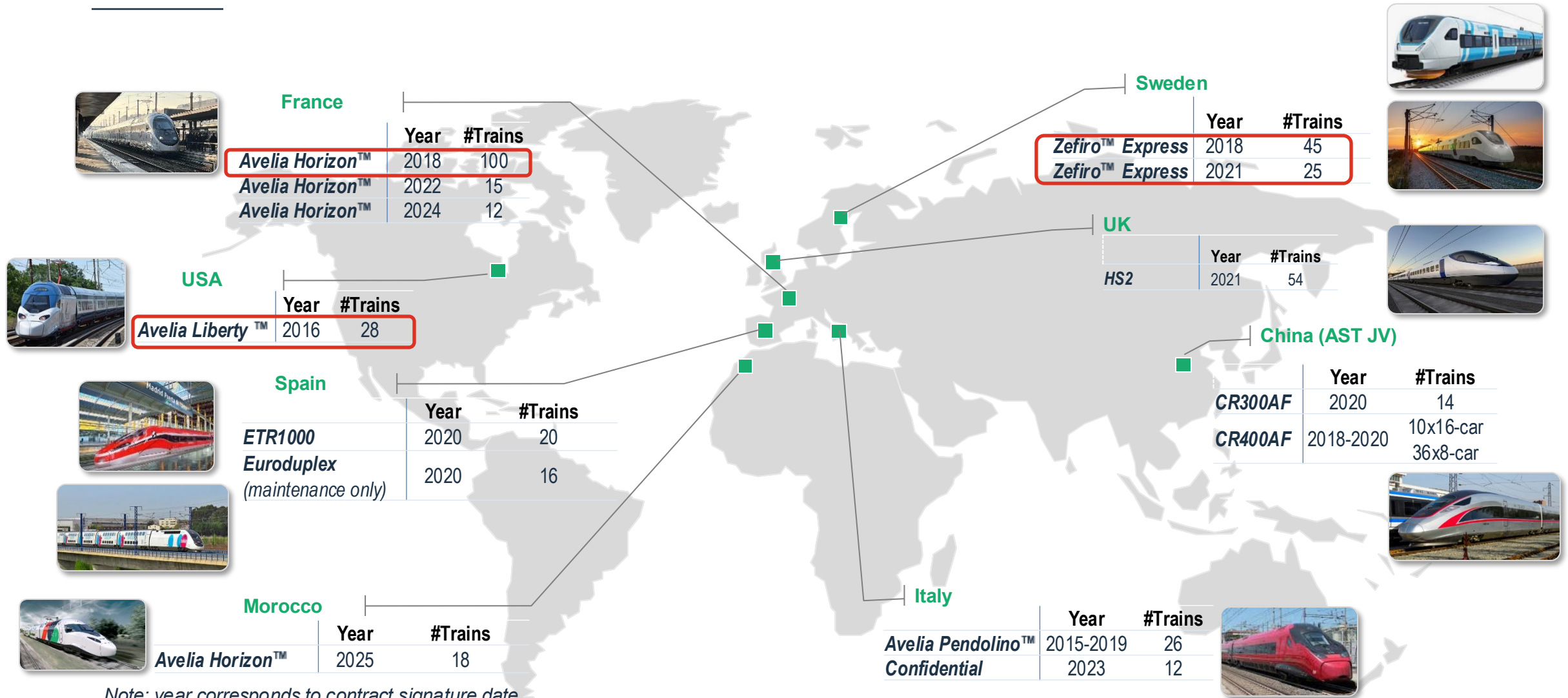


Experienced in **bringing high-speed technology to new markets** e.g. U.S. Morocco, Korea

A long track record



40 years of world-wide experience in High-speed Rail



Avelia Liberty™ for Amtrak, USA

Vehicle data	
Type of vehicle	Concentrated power (power cars), tilting, single deck
Quantity	28 trains; 252 coaches + 56 PC
Configurations	9-car (upgradable to 12-car)
Power supply	25/12.5 kV 60Hz, 12 kV 25 Hz
Train length / system length	700'
Train control	P40, ACSES
Capacity	386 seats
Maximum service speed	186 mph
Propulsion	7 MW
Carbody	Aluminum carbody
Axle Load	17.7 t/axle (MNO)
Services	
Contract type	Rolling stock + TSSSA



Avelia Liberty™ for Amtrak, USA

Combining the best of Avelia trains:

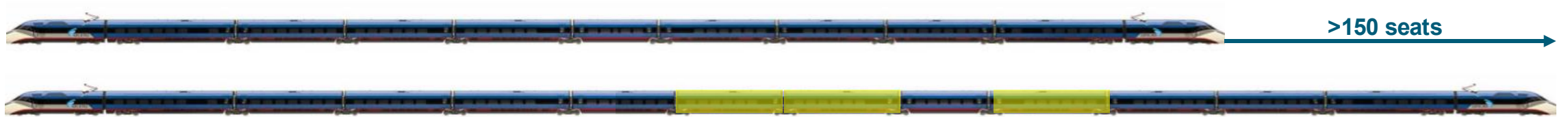
- **Combined versatility & efficiency**
- **Reduced journey** time thanks to tilting as Pendolino
→ 1st tilting articulated trainset up to 186 mph
- **Compact traction** as Avelia Horizon

Conceived to provide:

- **Enhanced passenger experience** : accessibility, connectivity, comfort, services...
- **Increased capacity**: compact traction & optimized interiors
- **Future proofing**: ready for speed upgrades, additional cars, passenger systems evolution...



Avelia Liberty: Thought for future evolution



Upgrade capacity with **more vehicles**

- Ready to add **up to 3 passenger cars**
- Limited modification
- Simple and economic cars (no traction)
- Comply with journey time

Upgrade speed to **220 mph**

- Ready for **very high-speed lines**
- **Compatible with NEC**
- Upgrade with **no major changes**
- All with proven technologies

Avelia Liberty - Testing

Testing on NEC line



Going to Pueblo test tracks



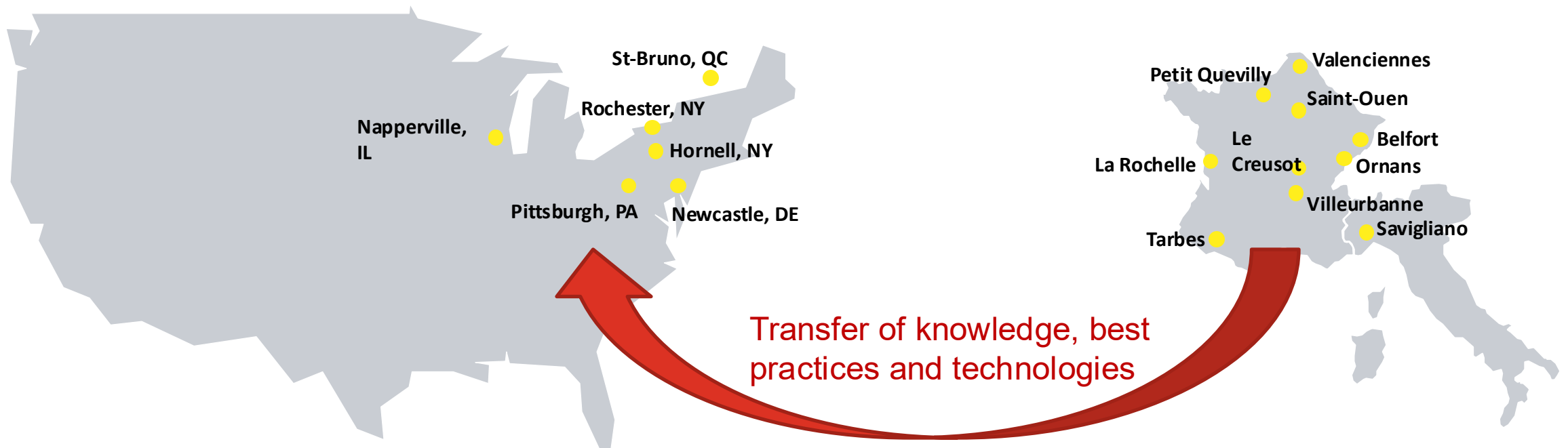
Avelia Liberty - Interiors



Buy America has facilitated successful transfer of technology and manufacturing

18 sites in Europe and in the US are involved in the Avelia Liberty™ development and manufacturing

All with extensive high-speed train, technology transfer and/or maintenance experience



High-speed trainset technology has arrived in the U.S. from around the world

Hornell, NY – North America's Largest Rolling Stock Manufacturing Facility

Unionized for over 40 years

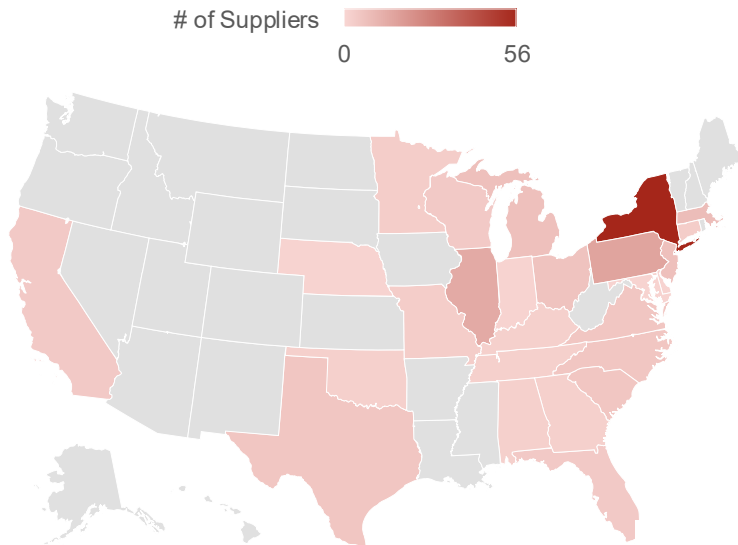


170
US Suppliers



\$230
Million USD
to Small & Disadvantaged
Business Enterprises

High-speed supplier density by state



27
US States



<https://www.gao.gov>

A Successful Made-in-America High Speed Rail Industry Requires:

- ✓ Transfer of technology from countries with long HS Rail experience
- ✓ Development of US knowledge and workforce
- ✓ Establishment of US supply chain

Plus

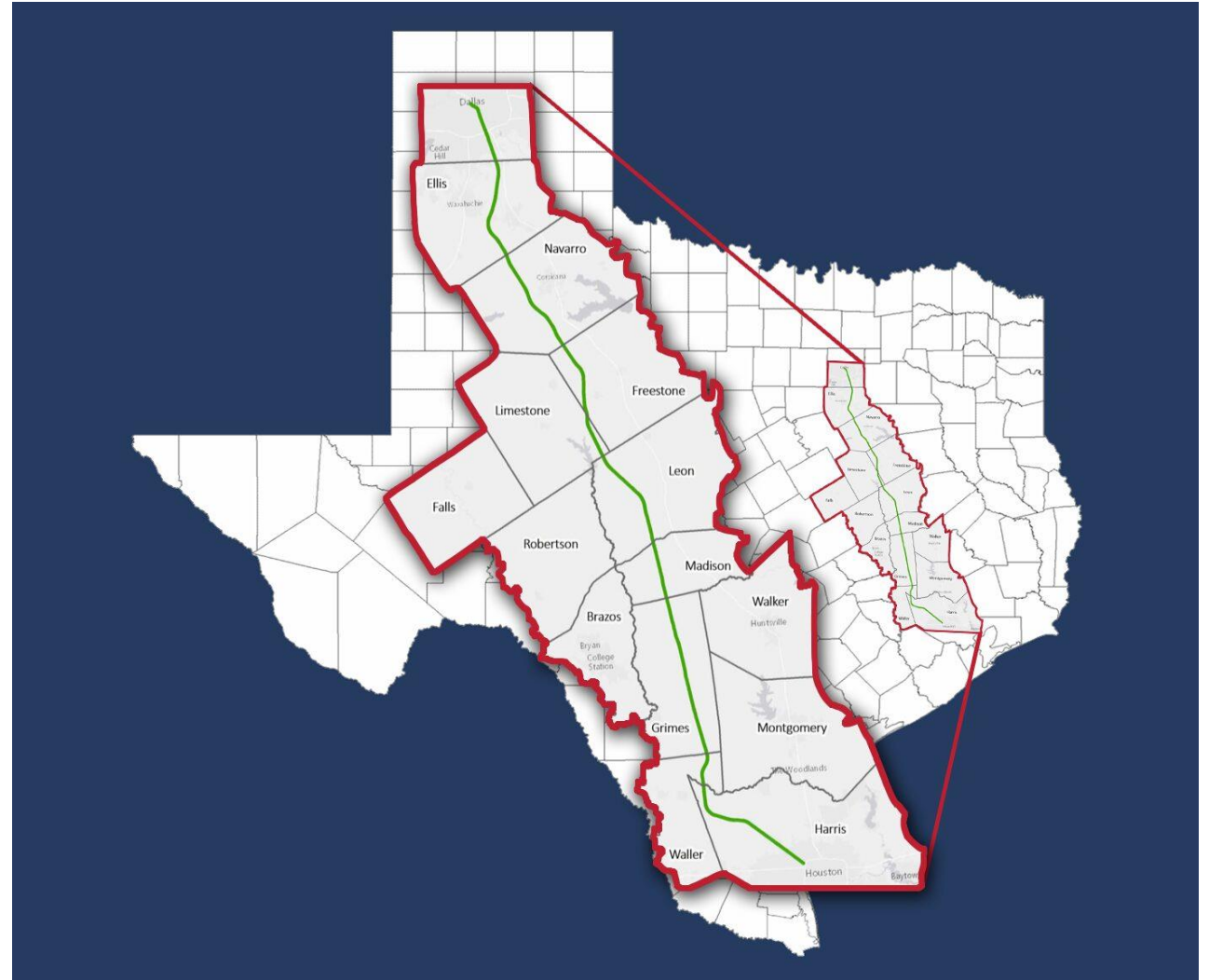
- Firm commitment to Buy America
- Viable pipeline of projects (+3 years)
- Continuity of production / planning to maintain supply availability and skilled workforce.

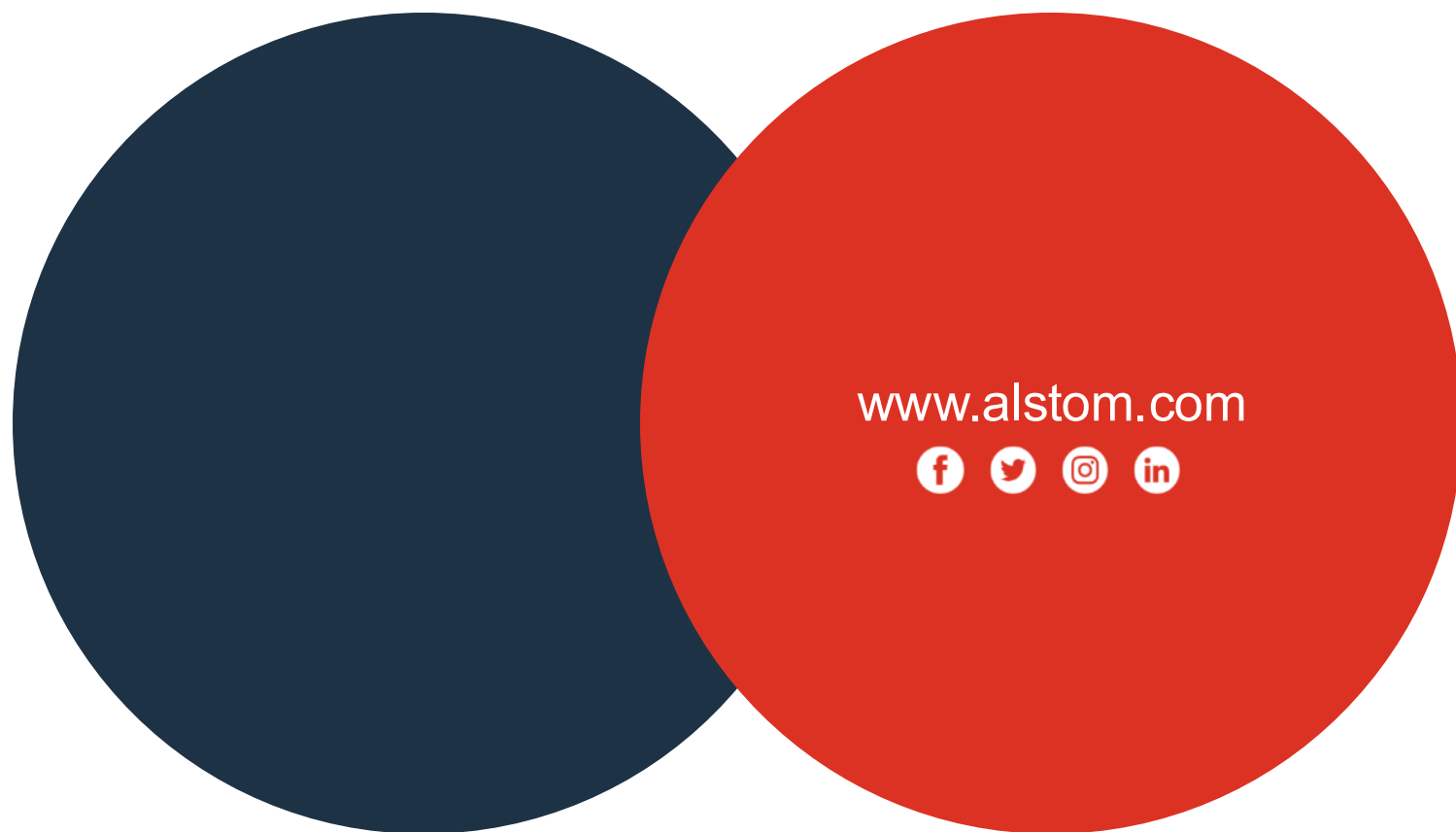
Manufacturing HS Train in Hornell, NY



Texas High Speed

- Move people more efficiently between major cities
- Density allows for successful project
- Technology exists here in America
- Supply chain is mobilized to contribute and create jobs in the US





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