

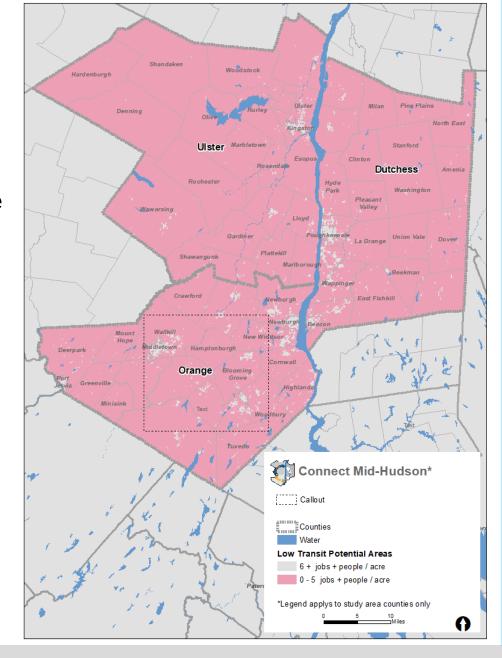




Use Cases

Low Transit Potential

- Much of the study area has fairly low fixed-route transit potential due to low density
- Even in low-density areas, there are pockets of employment, housing, retail, and services that transit users may wish to access
- New developments are often drawn to lowdensity areas
 - These may eventually justify extensions of fixedroute service, but microtransit can serve as a gauge of the market for transit

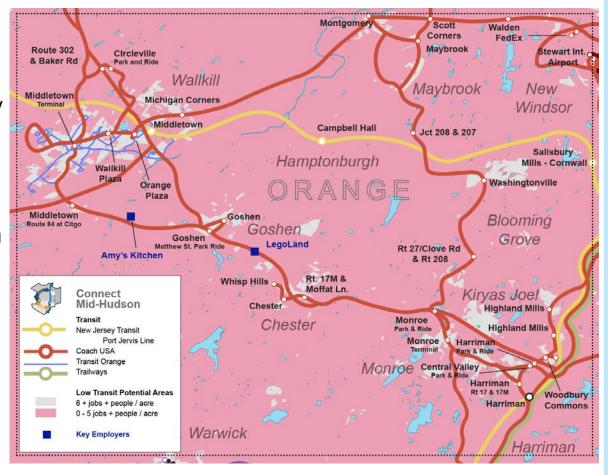




Use Cases - Potential Pilot Project

Low Transit Potential

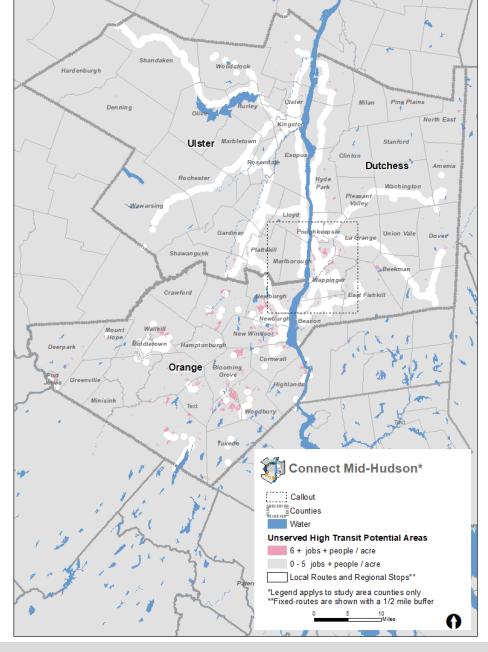
- US-6 / RT 17 corridor between
 Middletown and Thruway is a mix of higher-density clusters and low-density areas
- Seeing major new developments including LegoLand and Amy's Kitchen
- Bookended by rail stations and served by commuter services
- Microtransit could provided local trips and first mile/last mile connections





Use Cases

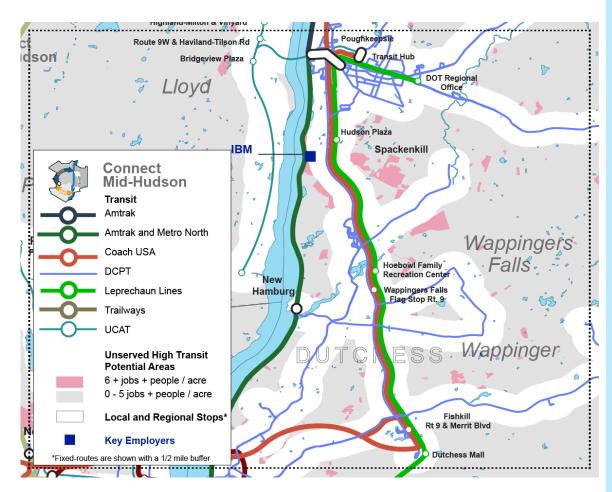
- Unserved by Fixed-Route Service
 - The coverage area of local fixed-route service generally extends up to ½ mile from the route itself
 - Most transit riders walk to and/or from their transit stop on at least one end of their trip
 - Maximum comfortable walk distance depends on the pedestrian environment and ranges from ¼ to ½ of a mile
 - Some unserved areas have fairly high transit potential
 - Microtransit could gauge the market





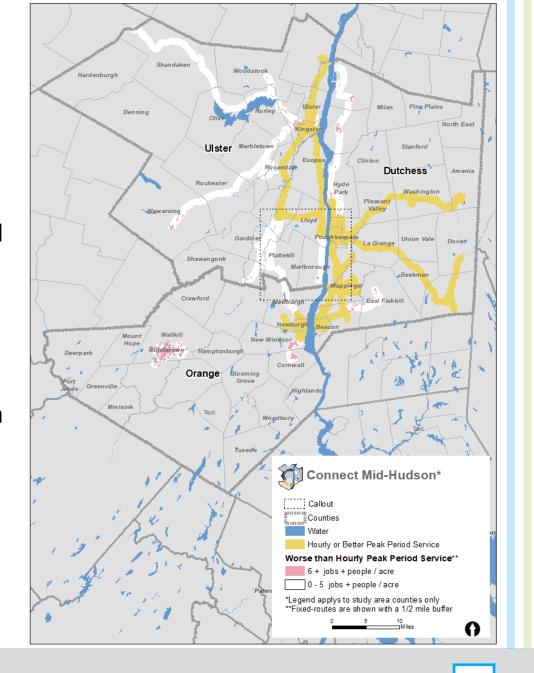
Use Cases - Potential Pilot Project

- Unserved by Fixed-Route Service
 - Spackenkill Hamlet in Poughkeepsie has moderate transit potential, but is mostly beyond the reach of local fixedroute service
 - Travel patterns of Spackenkill residents may not align with the available transit network
 - Transit service is mostly north-south on US-9 corridor
 - Travel patterns of residents are likely east-west with destinations including IBM and Hudson Plaza
 - Microtransit could provided local trips and first mile/last mile connections



Use Cases

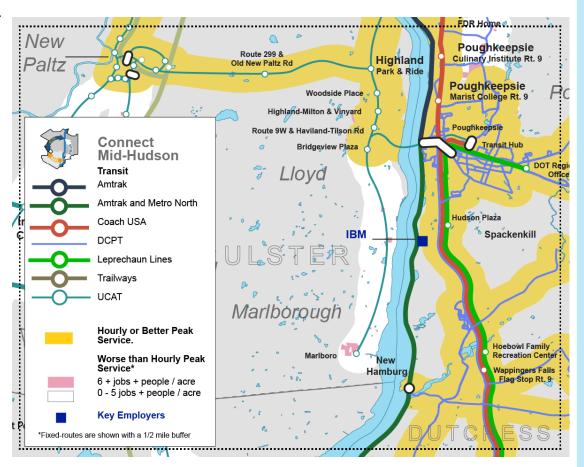
- Poorly Served by Fixed-Route Service
 - Transit systems have to find the right balance between coverage and frequency due to limited resources
 - Frequency is often determined by performance, but low-frequency service also has very limited appeal to riders
 - Microtransit can provide broader coverage than fixed-route service, but can also reduce wait times compared to low-frequency routes





Use Cases - Potential Pilot Project

- Poorly Served by Fixed-Route Service
 - UCAT KPL Route serves Kingston, Poughkeepsie, and Marlboro
 - 7 weekday roundtrips, but only 2 extend to Marlboro
 - Service south of Highland is likely better suited to microtransit service
 - Fairly low-density, but with pockets of moderate transit potential in Marlboro, Milton, and Highland (as well as Poughkeepsie)
 - Pilot project including Highland and Poughkeepsie could reveal preferences between modes among riders



Case Studies - FLEX by CDTA (Albany Region, NY)

Background / Purpose

- CDTA was looking for a way to provide supplemental service in poorly served areas between strong transit corridors (US-20 and RT 5)
- 6-month pilot program began January 3rd
- Service uses 2 Ford Transit vans owned and operated by CDTA
 - 8 passenger seats
 - 2 wheelchair spots
- Service available from 6AM to 9PM on weekdays and 10AM to 6PM on Saturdays
- Technology platform provided by TransLoc
 - Smartphone app for reservations
 - Call-in option available as well





Case Studies - FLEX by CDTA (Albany Region, NY)

Service Characteristics

- Fare-free during pilot phase
- Target wait time of 15-20 minutes
- 16 square mile zone
 - Includes retail (Crossgates Mall, Colony Center, etc.), office parks (Corporate Circle, etc.), and residential
 - Also includes out-of-zone "pins" (UAlbany, Albany International Airport, etc.)

Funding

- General operating funds for pilot
- Exploring FTA Integrated Mobility Innovation
 Grant for second zone







Case Studies - FLEX by CDTA (Albany Region, NY)

Findings / Lessons Learned

- 3 riders in first week of service; now up to 80 rides a day after 2.5 months
- Diverse trip types
 - Trips within the zone for errands, shopping, etc.
 - Commuting trips including first/last mile connections with fixed-routes
 - All existing fixed-route service has remained in operation
- Important to keep a balance between adding pins and keeping zone a reasonable size
 - Considering adding another vehicle
 - Considering prioritizing certain trip types with software





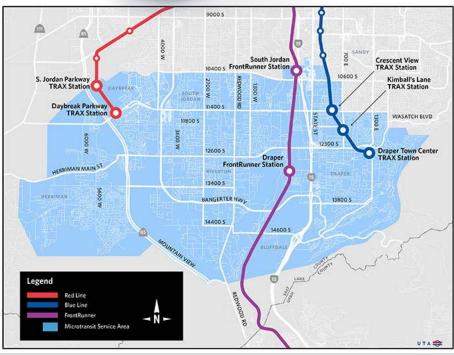


Case Studies - UTA On Demand (Salt Lake Region, UT)

Background / Purpose

- UTA was looking for a better way to serve a large area (65 square miles) with limited resources
 - Fixed-routes serve only half of the households in the service area
 - Deviated fixed-routes required two-hour advance reservations and were not very productive
- 12-month pilot program began November 2019
- Service uses 16 Mercedes Metris vans owned and operated by Via (turn-key operation)
 - 6 passenger seats (some wheelchair accessible)
- Service available from 6AM to 9PM on weekdays
- Technology platform provided by Via
 - Smartphone app for reservations
 - Call-in option available as well





Case Studies - UTA On Demand (Salt Lake Region, UT)

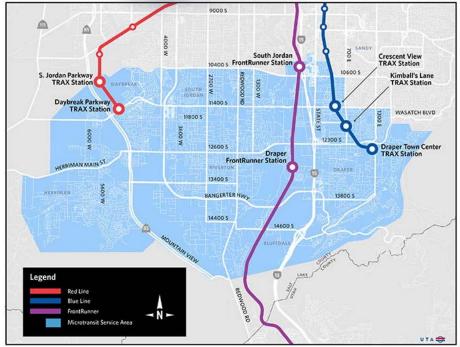
Service Characteristics

- \$2.50 one-way fare (same as local service)
 - Paid by app/phone; no cash accepted
 - Transfers from other routes and passes accepted by selecting transfer/pass in the app and presenting ticket/pass upon boarding
- Maximum wait time of 25 minutes
- Operates corner-to-corner
 - App directs rider to pick-up location

Funding

 UTA began receiving additional funding in 2019 from a sales tax increase dedicated to transit





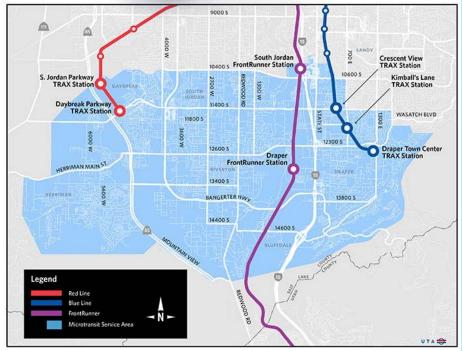


Case Studies - UTA On Demand (Salt Lake Region, UT)

Findings / Lessons Learned

- Ridership is growing
 - 224 in Dec., 334 in Jan., 392 in Feb.
 - Utilization has grown from 1.33 to 2.31 people per van per hour
 - Cost per rider has fallen from \$26.91 to \$15.54
 - May soon beat deviated fixed-route cost of \$13/hour
- Diverse trip types
 - 1 in 5 trips is for shopping (i.e. economic benefit)
 - Commuting trips include first/last mile connections with fixed-routes
- Routing algorithm improves with utilization
 - May allow for reduction of peak vehicles



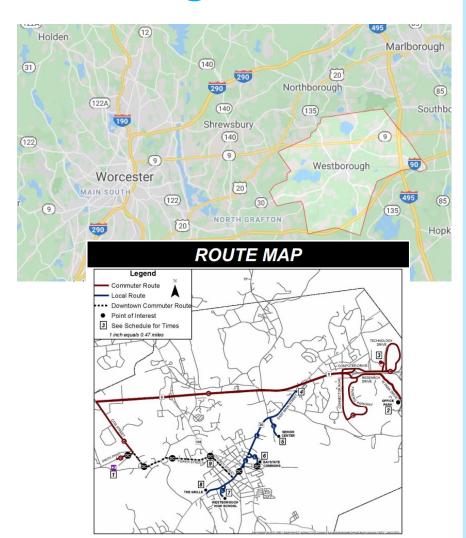




Case Studies - Name TBD (Worcester Region, MA)

Background / Purpose

- Westborough is a suburban community 33 miles west of Boston, 11 miles east of Worcester, MA
 - Served by MBTA commuter rail and WRTA bus service
- WRTA is seeking to replace an ineffective community shuttle
- WRTA has been awarded a \$460,000 MassDOT grant to fund a microtransit pilot project
 - Proposals evaluated on several metrics:
 - Potential to increase ridership
 - Demonstrating innovation
 - Serve a priority population
 - Financially sustainable
 - Provide cost savings or operational efficiencies
- WRTA has selected Via to provide turn-key service



STOA Funding Eligibility

General Rule

- Section 975.2(e) of the Statewide Mass Transportation Operating Assistance Program Rules and Regulations states:
 - Eligible bus services shall be limited to those provided in motor vehicles having a manufacturer's rated carrying capacity of fifteen or more passengers, excluding the driver.
- Exceptions (last updated August 1999)
 - Exceptions will be granted for use of motor vehicles having a capacity of 8 to 14
 passengers when it is determined by the Commissioner that the use of motor vehicles
 having a capacity of 15 or more passengers is not the most effective and efficient means
 of providing basic mobility to:
 - (1) transit disabled individuals in urbanized areas; and,
 - (2) persons, who by reason of physical, economic or other circumstances, do not have access to private personal transportation or are unable to use private personal transportation, either permanently or temporarily.



