

The RIDE Update

February 25th, 2019

Summary



This presentation will cover:

- A review of The RIDE's overall system performance
- A discussion of The RIDE's projected FY19 and FY20 budgets
- A discussion of current initiatives and future investments to improve performance, highlighting:
 - A new reservations, scheduling and dispatching software system
 - The dedicated service provider contract redesign and procurement



System Performance Update

SYSTEM PERFORMANCE: 12 MONTH RECAP

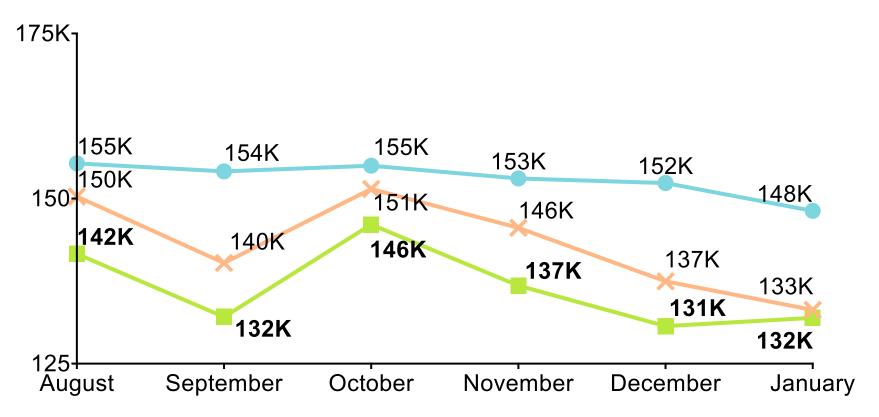
The RIDE has gone through multiple significant transitions in the last twelve months



- February June 2018: Procured and implemented a new call and control center provider, Transdev, who took over TRAC operations on June 1st
- June August 2018: Planned for and executed the third and final service provider transition into TRAC on August 4th
- August 2018 February 2019: Focused on providing reliable service and high on-time performance during the third service provider integration and ongoing TRAC employee training and operational improvements
- February 2019 onward: Will focus on system reliability and efficiency and customer service enhancements

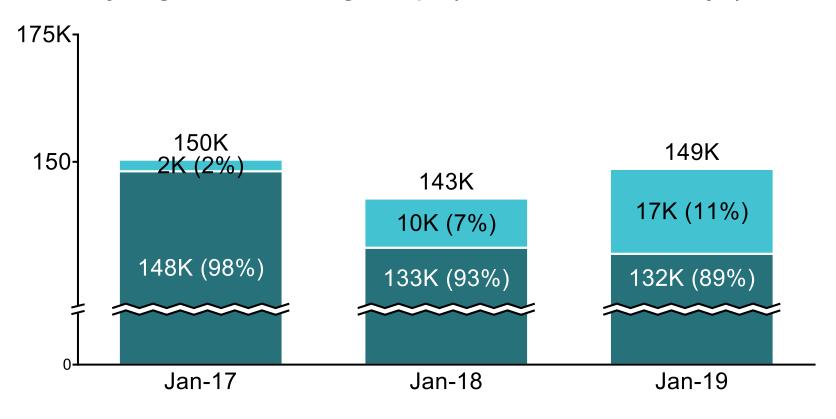


One-Way Registered Passenger Trips (Dedicated Only, no Uber/Lyft)





One-Way Registered Passenger Trips (Dedicated and Uber/Lyft)



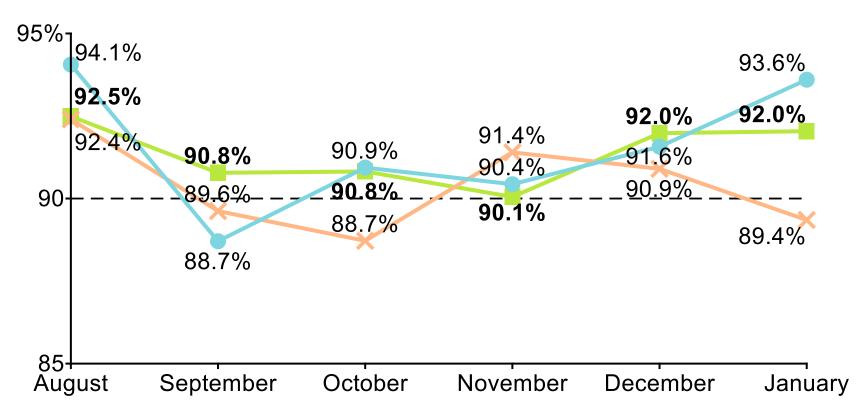
■ Dedicated Fleet ■ Uber and Lyft

SYSTEM PERFORMANCE: ON-TIME PERFORMANCE

OTP has met or exceeded 90% for the last six months



On-Time Performance (% within 15 min)

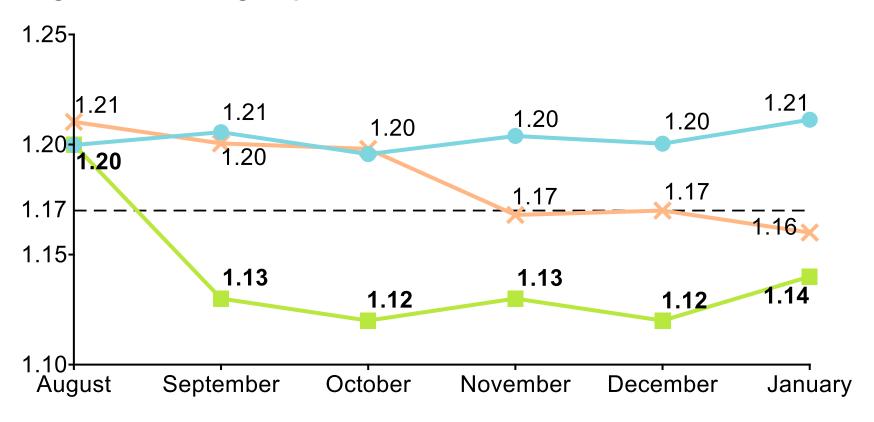


SYSTEM PERFORMANCE: PRODUCTIVITY

Productivity has dropped due to lower ridership and higher on-time performance



Registered Passengers per Revenue Hour

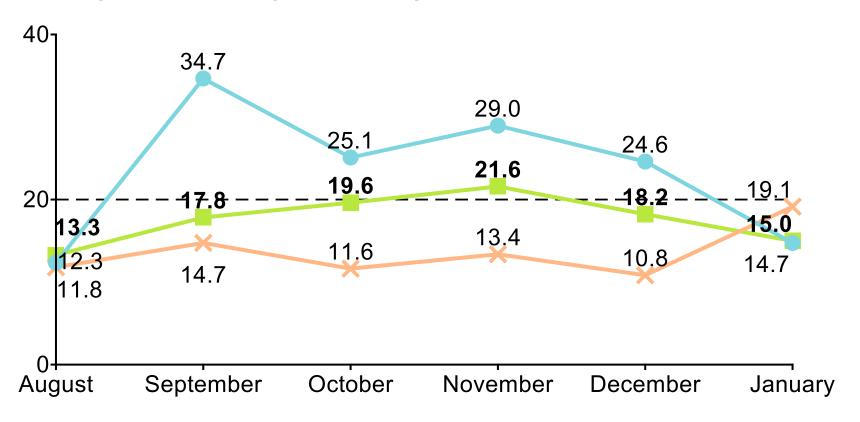


SYSTEM PERFORMANCE: EXCESSIVELY LATE TRIPS

Pick-ups greater than 30 minutes late dropped in December and January



Pick-Up 30+ min Late per 1,000 Trips

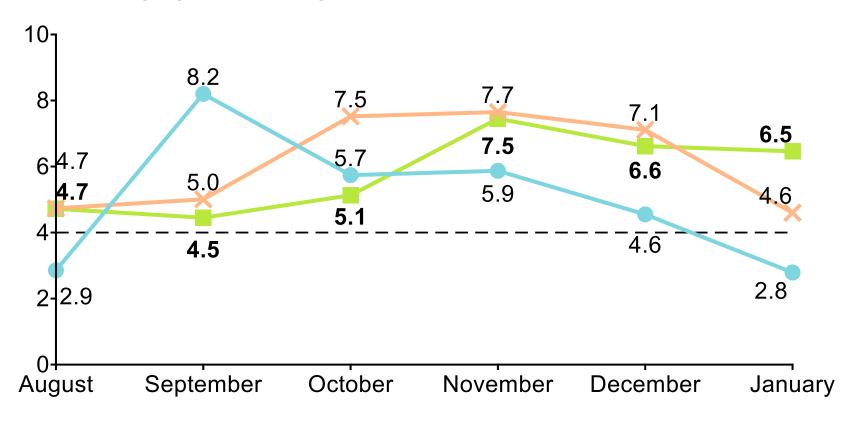


SYSTEM PERFORMANCE: MISSED TRIPS

Missed trips have been below FY18 levels but continue to be above target



Missed Trips per 1,000 Trips

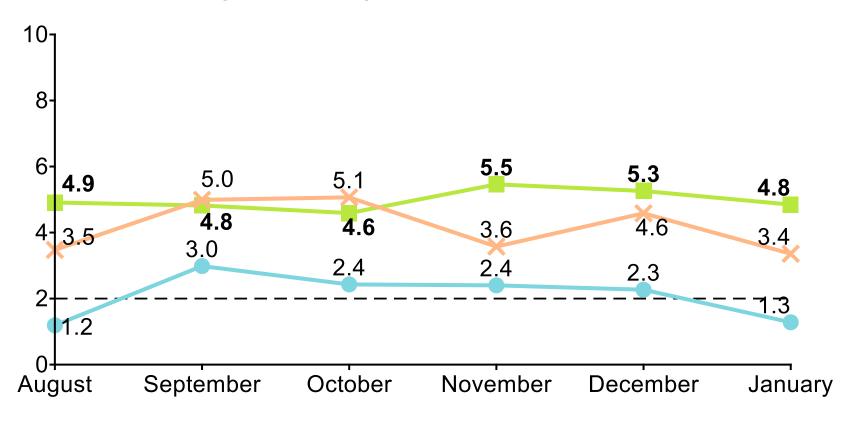


SYSTEM PERFORMANCE: CUSTOMER SATISFACTION

Complaints have stabilized but remain higher than previous years



Customer Issues per 1,000 Trips



SYSTEM PERFORMANCE: IMPROVEMENT ACTIVITIES

The RIDE will continue to work with its contractors to improve service



Initiatives to Improve Service

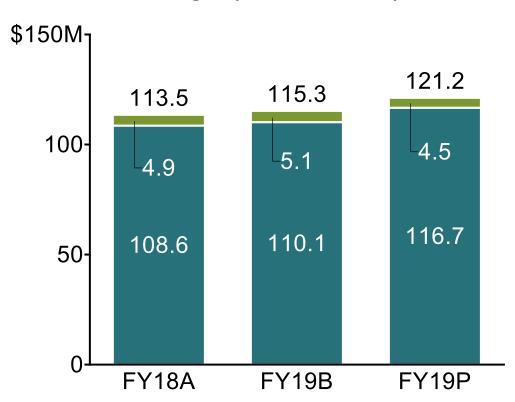
- Implement software system tuning
- Conduct driver run structures rebids
- Hold quarterly TRAC business reviews
- Implement adjusted penalty structure for dedicated service providers
- Continue to implement TRAC operations and training enhancements



FY19 and FY20 Budget Projections



Paratransit Budget (OTA and LSS)



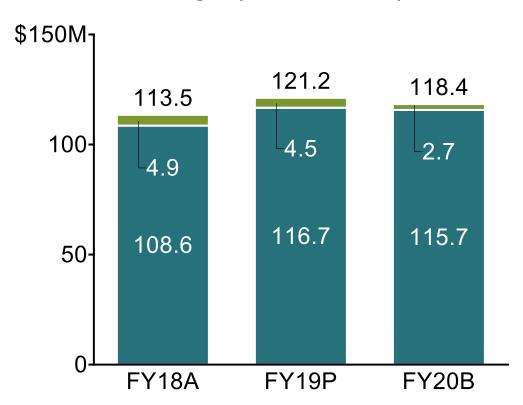
Opportunities and Challenges

- Excess revenue hours resulted in higher OTP than goal of 90%
- Unrealized aggressive provider productivity targets increased revenue hours needed to deliver trips (expected 6.2% increase in productivity vs. current 3.4% decrease)
- Delayed Uber/Lyft pilot policy changes increased on-demand ridership and increased the pertrip subsidy paid to Uber/Lyft

■Local Service Subsidy (LSS) ■Office for Transportaiton Access (OTA)



Paratransit Budget (OTA and LSS)



Key FY20 Budget Assumptions

■ Total Ridership: up 0.5%

Dedicated: down 2.6%

■ Non-Dedicated: up 22.5%

 Average DSP Cost / Trip: down 10.4% (includes fixed and variable, excludes call center costs)

Productivity: up 8.3%

Other Key Changes:

 Software costs and eligibility center (TREC) costs were reallocated from OTA to LSS as they have a direct impact on the cost of daily service

■Local Service Subsidy (LSS) ■Office for Transportation Access (OTA)

FY19 and FY20 Budget Projections

The RIDE has multiple initiatives under way to control costs in FY20



FY20 Cost Savings Initiatives			
Initiative	Description / Impact	Est. Net Savings*	
Implement new software	Increase productivity (and reduces hours needed to deliver customers) through a more sophisticated scheduling algorithm	\$3.1M	
Implement Non- Dedicated Service Providers (NDSP)	 Replace inefficient DSP trips with cost-effective TNC/taxi service Initial NDSP piloting will utilize existing Uber/Lyft contracts Full implementation will require a new procurement over the spring/summer 	\$1.6M	
Modify On-Demand Service (Uber/Lyft)	 Reduce cost per On-Demand trip Reduce number of excess On-Demand trips 	\$1.6M	
Implement New Dedicated Service Provider (DSP) Contracts	 Reduce fixed and variable costs for DSPs Require new procurement run in spring/summer and includes potential de-mobilization cost to expedite implementation 	\$1.3M	
TOTAL			

Draft for Discussion & Policy Purposes Only

^{*} Actual net savings over baseline FY20 costs includes any potential costs associated with implementing an initiative in FY20

FY19 and FY20 Budget Projections

Significant investments are expected to improve the customer experience



FY20 Customer Experience Initiatives			
Initiative	Description / Impact	Investment	
Purchase new vehicles	Upgrade aging fleet of vehicles	\$7.5M**	
Implement new software	Better routing, more accurate ETAs, and better self- service tools (app, website)	\$5.4M*	
Complete radio upgrade	Reduce chatter that customers hear over radios	\$800K*	
Complaint process redesign	Increase accuracy of complaint intake process and speed of complaint response process	\$160K	
Increase travel training	Enable customers able to take fixed route some of time to be more confident in their ability to do so	\$90K	
Impact of weather research	 MIT Masters in Analytics students will develop tool to determine impact of weather on service Results will be incorporated into the software to better serve customers during and after storms 	\$50K	
Increase customer education and communications	 Technology trainings and educational videos will teach customers to use the service and its modes Quarterly flyers and call-outs will keep customers abreast of ongoing changes 	\$35K	
TOTAL			

Draft for Discussion & Policy Purposes Only

^{*} Includes capital or other funding source

^{**} Part of larger capital vehicle replacement plan totaling \$30M over FY19-FY21



Software Procurement

SOFTWARE RFP: SYSTEM REQUIREMENTS

A state-of-the-art software system is essential to the future of The RIDE



Reliability and Efficiency

- Dynamic Routing
- DSP and NDSP Optimization
- Daily Fleet and Shift Optimization
- Predictive Capabilities

Customer Service and Reliability

- Accurate Real-Time Information
- Multiple Communication Channels and Services

Scheduling Engine

Customer

Interface /

Self Service

Options

Dispatcher Interface

Eligibility / Customer Database

Reliability and Efficiency

- Accurate Real-Time Information
- Automated / Assisted Decision-Making
- Predictive Capabilities

Customer Service and Reliability

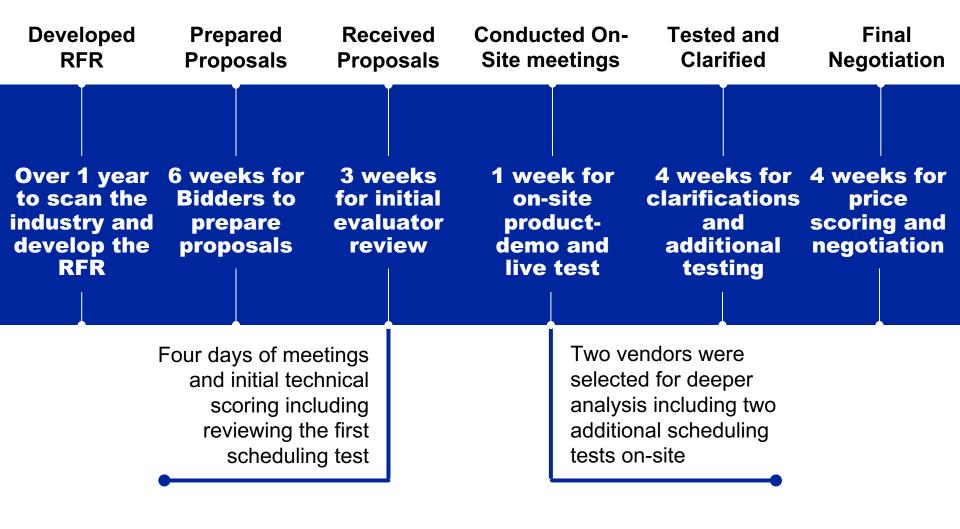
- Data Security
- Cloud-Based Solution
- Easily Updatable Customer Profiles

New software will drive improved customer experience, enhanced service reliability, and increased productivity and efficiency

SOFTWARE RFP: EVALUATION PROCESS

The team completed a comprehensive design, procurement, and evaluation process





SOFTWARE RFP: ROUTEMATCH SELECTED AS NEW PROVIDER

Routematch is a leader in paratransit software with an innovative approach





- Extensive experience providing paratransit software, 2 of top 10 paratransit systems (SEPTA and RTD) and 600+ across the entire US
- Strong paratransit solution with innovative partnerships:
 - WAYE new generation scheduling engine from the former CTO of Stratagen and creator of the ADEPT dispatching algorithm
 - <u>LYFT</u> full bi-directional NDSP integration with Routematch's paratransit software
 - MOBI advance analytics and intermodal routing allows for future integration with the fixed route

SOFTWARE RFP: IN-DEPTH PARATRANSIT EXPERIENCE

Routematch's solution combines past experience and new innovations



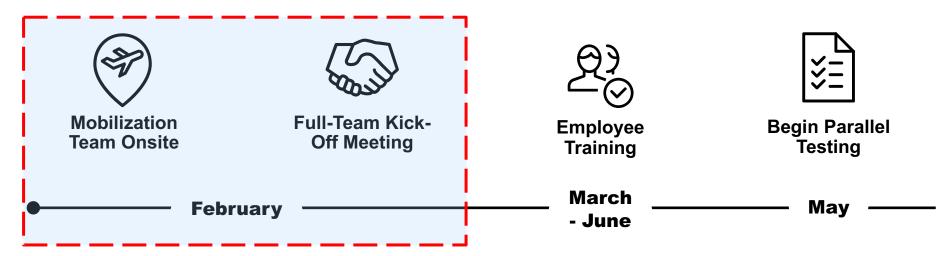
Key Features and Functionality

- The state-of-the-art scheduling and dispatch engine will incorporate historical RIDE data and real-time traffic information
- The engine will also incorporate an innovative solution for DSP / NDSP optimization
- New customer self-service options will be available including web booking and a mobile app with vehicle tracking and enhanced ETA information
- The solution has a disintegrated front-end and back-end, which allows for future productivity improvements without changing the entire software
- Integration with Lyft as a Non-Dedicated Service Provider
- An improved driver application w/ turn-by-turn navigation, traffic information and enhanced communication with TRAC
- Leverages Amazon cloud (AWS) as the underlying IT infrastructure and technology for secure and robust environment for RIDE data

SOFTWARE RFP: IMPLEMENTATION TIMELINE

A detailed, multi-phased timeline will guide implementation activities





— July — Year 1 — Year 2 — Ongoing →



Initial Transition to New Software Solution



Ongoing Software and Operational Enhancements



Mobility Enhancements



Analysis and Continuous Improvement

SOFTWARE RFP: RISK MANAGEMENT AND PARTNERSHIP STRATEGY

The RIDE / MBTA will support and partner with Routematch



1. Transition Planning and Execution

- Commit involvement of key SMEs (RIDE staff, ERB Transit Consulting, Transdev IT, TRAC operators, MBTA IT, and MBTA CTD)
- Work with a team of 21 Routematch resources involved in the transition, including full time Routematch resources on-site throughout Transition, Go-live, and Year 1
- Create a phased transition approach that delineates developments as Go-live,
 Year 1, Year 2 and On-Going efforts

2. Knowledge Transfer

- Share knowledge and materials developed while improving TRAC operations
- Provide a full review of current operating processes and policies

3. Training

 Develop a combined training plan with the MBTA, Routematch, Transdev and Service Providers

SOFTWARE RFP: RISK MANAGEMENT AND PARTNERSHIP STRATEGY

Improved contract management will hold Routematch accountable



1. Strong Contract Management Team

 Dedicated Director, Technical Project Manager (+20 years of Software implementation experience), and Analyst within RIDE organization

2. Ongoing Business Planning and Reviews

Quarterly business reviews and twice yearly business planning meetings

3. Robust Incentives and Penalties

- Payments tied to milestone with MBTA acceptance as clearly defined in the Service Level Agreement and Master Service Agreement
- Significant portion of fees at risk along with clear penalties and incentives creates accountability for performance and focus on continuous improvement



Dedicated Service Provider Contract Redesign and Procurement

The MBTA is seeking contractors to operate and maintain its RIDE vehicles



What does a dedicated service provider do?



Operate Vehicles

Contractors employ drivers to operate MBTA vehicles to pickup customers and supervisors to ensure safety



Assist Customers

Contractor drivers
provide "door-to-door"
service for MBTA
customers, assisting
them to the vehicle and
while onboard the
vehicle



Maintain Vehicles

Contractors maintain and repair all MBTA vehicles and in-vehicle technology, focusing on regular preventative maintenance

Upcoming Procurement Summary



Current Contract: Three companies currently provide this service to the MBTA, Greater Lynn Senior Service, Veterans Transportation, and National Express.

Procurement and Implementation Timeline: Procurement is expected to be completed by the end of the summer, with mobilization completed for go-live by Winter 2020.

Contract Length: The new contract is expected to be a five and a half year base period, with two one-year options. This duration aligns to the fiscal year and, when combined with option years, lines up to other RIDE contract end dates to provide the MBTA future flexibility to determine its service model.

Contract Value: Total expected dollar value of the combined contracts is approximately \$500M over the base years of the contract.

The contract has been completely redesigned to take advantage of the RIDE's centralized call and control center and new software system

Key changes are expected to drive enhanced value for customers and MBTA



Customer Experience

- All contractors will follow a unified, simplified lost-and-found policy
- No trips will explicitly require a transfer; transfers will occur per software algorithm

Operational Efficiency

- Move to a centralized zoning model from a three-zone decentralized system
- MBTA will supply all Revenue Vehicles and initial In-Vehicle Technology
- Run structure design / bidding adjusted to increase operational flexibility

Administrative

Tolls will now be paid via MBTA E-ZPass and waived in-line with rest of MBTA

Facility Location Selection

 Facilities will not be initially proposed by Bidders and instead selected by the Contractor and the MBTA in a post-award Facility Planning Process

Insurance

- Umbrella increased from \$10M to \$20M and automobile reduced from \$2M to \$1M
- MBTA reserves the right to provide all or a portion of the insurance

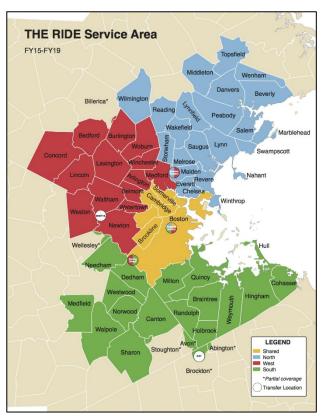
Penalty / Incentives

Streamlined to drive performance on elements within Contractor's control

The new zoning system will take full advantage of the new software and TRAC

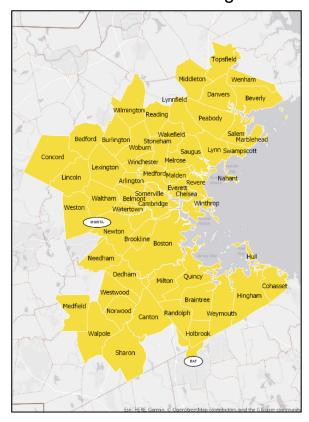


FY15-FY19
Three-Zone Decentralized



- Contractors awarded all work in their service area (each at ~33%)
- Contractors provide only trips in their area or in the core area

New Contract Period Centralized Zoning



- Contractors awarded Service Levels and Hours (each between 20-50%)
- Contractors can provide trips anywhere in the service area

A diverse procurement team has developed a strong contract to drive performance



Evaluators and Subject Matter Experts

MBTA Support

- The RIDE
- Systemwide Accessibility
- Safety
- Occupational Health Services
- Lean Strategy
- Bus Operations
- Treasury / Accounting / Finance
- Legal
- Procurement

External Support

- Riders Transportation Access Group
- The RIDE Taskforce
- Paratransit Operations Consultants
- Outside Legal Counsel

Contract award is expected in Summer 2019, with "go-live" in Winter 2020

Process	2018	2019	2020	
Develop				
Current Contract Review				
RFP Development				
Industry Outreach				
Procure	Out for Rid:	2/26 Bids Received: 4/10		
Out for Bid	•			
Evaluation and Selection	Expected Contract Award: 8/19			
Implement				
Mobilization		Francisco de Continuo Miliatorio	2020	
Transition		Expected Go-Live: Winter	2020	



Questions?