

# Greater Cleveland Regional Transit Authority

## Radio Communication and CAD/AVL Replacement Program

Presented to: Operational Planning  
and Infrastructure Committee  
June 4, 2019

Greater Cleveland Regional Transit Authority



# Project Activity

Project Task	Purchase Status	Notes
CDW Router Procurement	Complete	Board approved in September. Resolution #2018-102 \$1,454,825
Motorola Radio Procurement	Complete	Board approved in September Resolution #2018-101 \$4,017,252.80
Trapeze ITS On-board Equipment	Complete	Board approved in December Resolution #2018- 113 Estimated - \$7,719,263
CSU-UTC Research Agreement	Complete	Board approval in December Resolution #2018-120 \$500,000

# Project Activity

Project Task	Purchase Status	Notes
MARCS Agreement Revision (5-years)	Complete	Board approval in February Resolution #2019-015 \$1,200,000
Agile Networks	Complete	Board Approval in April Resolution #2019-40 \$153,120
CDW Passenger Wi-Fi equipment	Complete	Board Approval in May Resolution #2019-54 \$203,666
Cellular RFP	In-process	Seeking board approval in June

# Projected Project Schedule

Task	Completion Date
Dispatch Center Replacement	May 2019
Begin using MARCS (portables)	<i>Early</i> June 2019
WLAN Installation (Fixed Route)	June 2019
Bus-in-Box Arrival	July 2019
<b>Proof of Concept</b>	<b>July 2019</b>
Pilot Begins	July 2019
FR Fleet Installation	Sept. – December 2019
Rail Fleet Installation	January - August 2020

# ITS Computer Equipment



Computer

MDT

Mobile Router

Mobile Radio

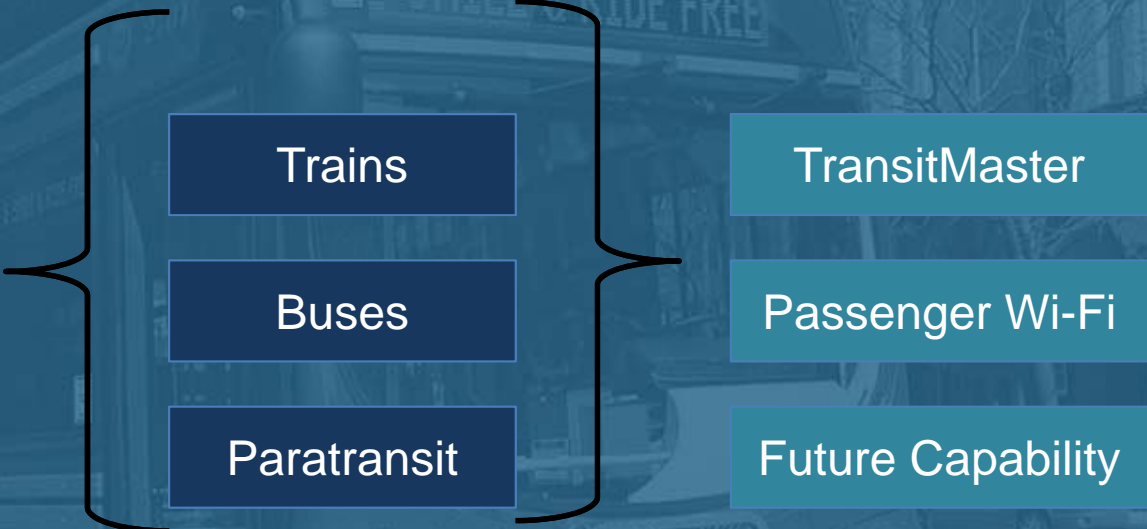
Vehicle  
Intelligence



# Cellular Network



Cellular Carrier



# Procurement Overview

- RFP issued on March 4, 2019
- Accessed on the GCRTA website by 12 interested parties
- 3 firms proposed

# Procurement Overview

## Evaluation Panel Members

- Information Technology
- Intelligent Transportation Systems
- Office of Management and Budget
- Procurement



# Procurement Overview

## Evaluation Criteria

- Data Coverage: Ability to provide superior, uninterrupted 4G data coverage throughout Cuyahoga County and entire service area
- Completeness of proposal: Compliance and understanding of RTA's scope of work, service requests, ability to meet all terms and available resources to complete the project

# Procurement Overview

## Evaluation Criteria, continued

- Vendor Experience: Experience supporting a large fleet of vehicles and the data amount required on a daily basis. Experience in public transit or similar operation
- Cost: Overall cost proposals must include service agreements, monthly charges, customer support and maintenance

# Procurement Overview

## Recommended Firm:

- AT&T Mobility National Accounts, LLC
  - Local office in Cleveland, Ohio
- DBE Goal: 0% due to lack of certified DBE firms

# Procurement Overview

## Experience

- 156 million wireless subscribers in the U.S. and Mexico, and provides wireless data in more than 200 countries.
- Coverage in more than 99.9% of the U.S. population, including the top 100 markets
- 4G LTE coverage to more 400 million people in North America



# Procurement Overview

## Experience, continued

- Fastest mobile broadband network in the U.S.
- Ability to utilize FirstNet, the Country's first nationwide public safety communications platform
- Local and experienced project team



# Procurement Overview

Other clients include:

- GCRTA
- City of Cleveland
- Cuyahoga County
- City of South Bend, Indiana
- Oakland County, Michigan
- South East Pennsylvania Transit Authority

# Proposed Vendor: AT&T

## Benefits

- RTA will be part of FirstNet (nation's public safety communications network)
  - Pre-emption in the event of an emergency/major event
  - MARCS opted into FirstNet
- Efficient management of data plans
- Customer Service – Online Customer Portal

# AT&T Mobile Data Services

## Two Cellular Plans per Vehicle

1. Unlimited data plan for ITS/Operations
  - FirstNet for 1<sup>st</sup> responders
  - Real-time vehicle location, canned messages, real-time vehicle diagnostics, turn-by-turn navigation
2. Unlimited data plan for passenger Wi-Fi
  - Dedicated, complimentary cellular plan for buses and trains

# Expense

Annual expense of \$409,519.68

- Two Cellular Plans per Vehicle

1. Unlimited *FirstNet* plan for operation: \$32.99
2. Unlimited *commercial* plan for Passenger Wi-Fi: \$30.99

# Procurement Overview

## Recommendation:

- Staff requests that the Operational Planning & Infrastructure Committee recommend to the Board of Trustees the award of a contract to AT&T Mobility National Accounts, LLC to provide Mobile Data Services in an amount not to exceed \$2,047,583.40 for the base five years, and \$409,516.68 for each option year, for a total contract amount not to exceed \$2,866,616.76.