# Greater Cleveland Regional Transit Authority

Project Update Radio Replacement Study

Presented to : Operations Committee
November 14, 2017



#### Purpose of the Study

- RTA hired IBI Group to identify the best communication option for RTA
  - Transit-focused firm and has conducted similar studies for other authorities
- Current System: Aging infrastructure with obsolete technology
- o Include study in grant applications



#### Current Radio System Equipment



## Radio System Communication



**Vehicle** 



**Radio Towers** 



Servers



TransitMaster Software

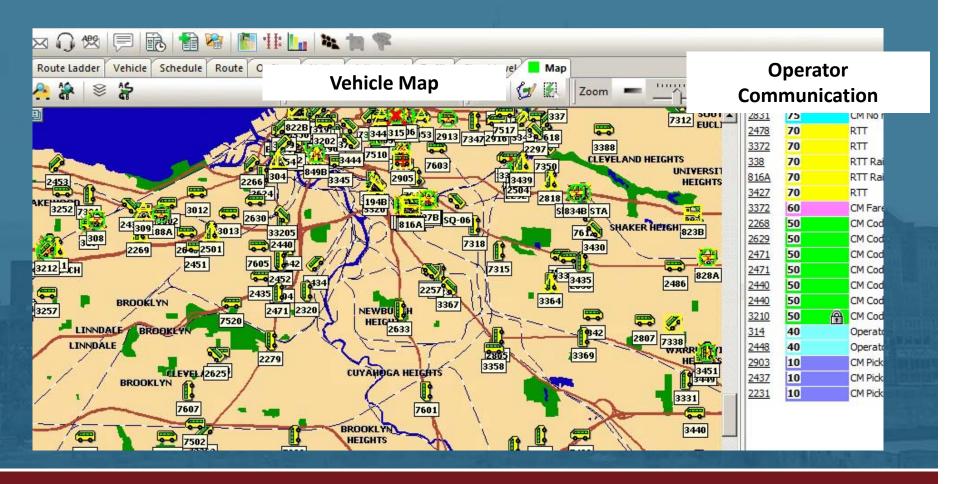


Customer Real-Time Information

**Data being Transferred** 



#### Radio System Communication



### **Project Status**

Task	Description	Status
Task 1	Identify radio replacement opportunities/methods	Complete
Task 2	Develop SWOT and Gap Analysis for each method	In-Progress
Task 3	Perform a voice and data coverage test for each method	In-Progress
Task 4	Develop cost/benefit analysis for each method	In-Progress
Task 5	Provide a final recommendation	Not Started

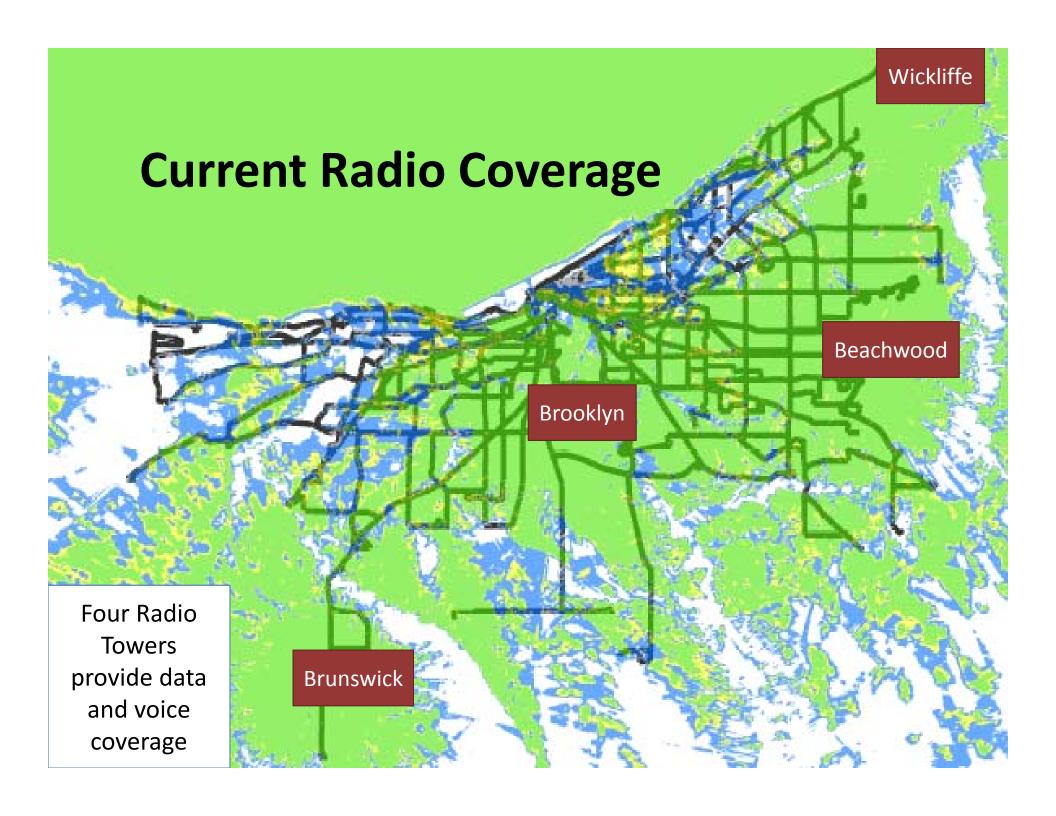
<sup>\*</sup> Project on schedule for January 2018 completion



#### Project Status – Task 1 and Task 2

- Replacement Opportunities:
  - Hybrid Solution Traditional Radio and Cellular
  - Commercial Cellular Provider (Verizon/AT&T)
  - o Traditional Radio Leased
  - o Traditional Radio RTA owned





#### **Grant Award**

- RTA planned on using the final recommendation for grant applications
  - In September, RTA was notified it received a federal grant of \$5.8 million
  - US DOT Transportations Advanced Transportation and Congestion Management Technologies



#### Next Steps

Date	Task
January 2018	Radio Study Completion: Final Recommendation
February 2018	Develop RFP for replacement system
May 2018	Publish RFP
July 2018	Select Vendor
August 2018	Project Kickoff
May 2020	Project Closeout

<sup>\*</sup>Project Schedule depends on the system selected

