

Greater Cleveland Regional Transit Authority

Radio Communication and CAD/AVL Replacement Program

Presented to: Operational Planning
and Infrastructure Committee

April 16, 2019

Greater Cleveland Regional Transit Authority



Project Funding

- Federal Highway Administration grant: \$11.6 million (50/50)
- FTA formula grant: \$2.64 million (80/20)
- NOACA section 5310 grant: \$760,000 (80/20)

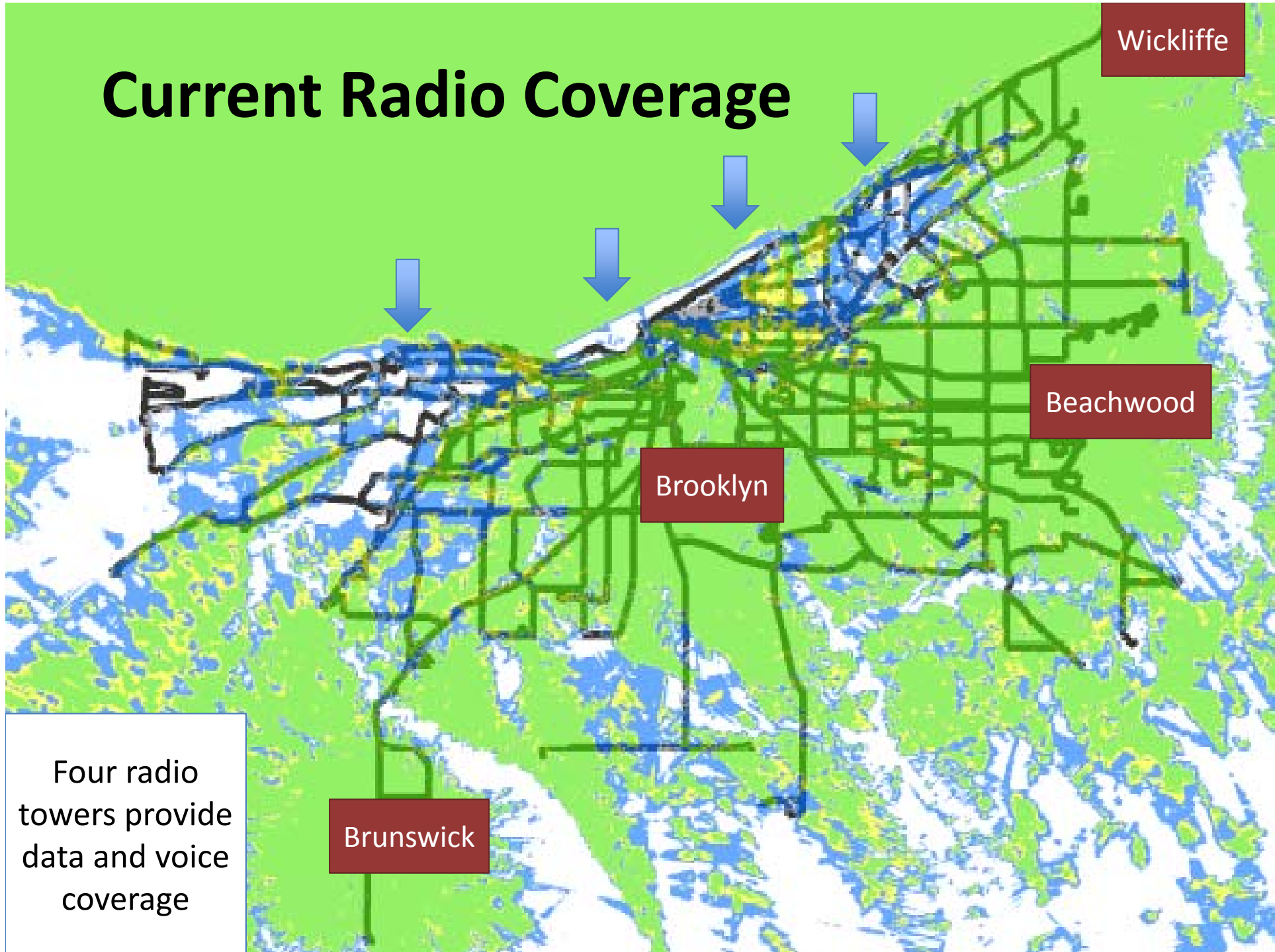
Project Activity

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	In-process	Seeking board approval in April
CDW Passenger Wi-Fi equipment	In-process	Seeking board approval in May
Cellular RFP	In-process	Advertised in February and anticipated board action in June 2019

Current Radio Coverage



Wickliffe

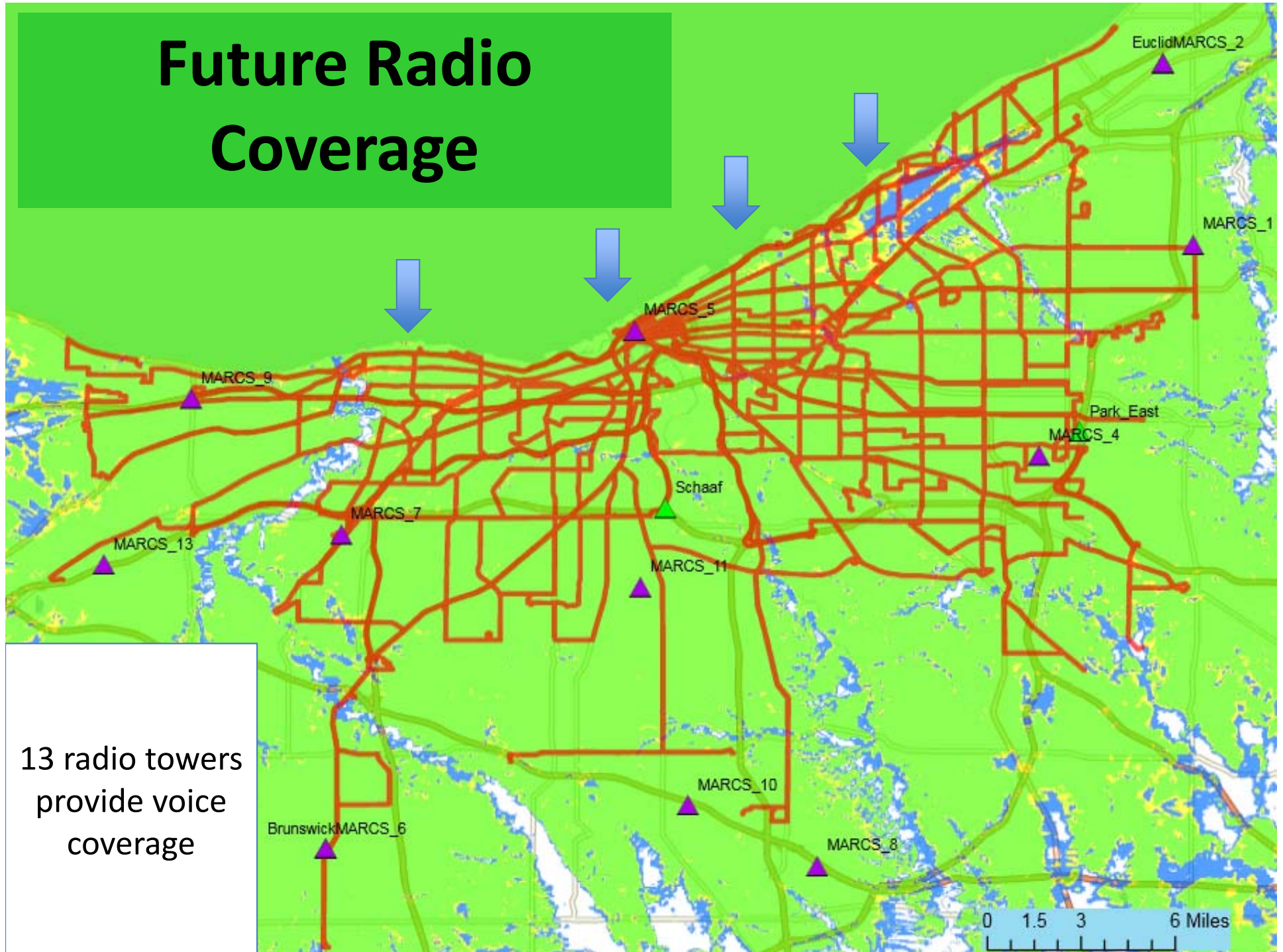
Beachwood

Brooklyn

Brunswick

Four radio towers provide data and voice coverage

Future Radio Coverage



13 radio towers
provide voice
coverage

MARCS Radio Network



MARCS
13 Radio Towers

Agile
Network
Connectivity

Main Office Dispatch

Paratransit Dispatch

Trains

Buses

Paratransit

Portables



Agile Networks

- MARCS requires redundant connections to their zone controllers from Agile Networks
 - RTA will have four (4) circuits built and managed by Agile – State Term DAS contract

Agile Networks: Installation and Maintenance Expense				
Service Node	Installation	Monthly Service	Annual Service	5-year Service Agreement
Main Office 1	\$1,080	\$620	\$7,440	\$37,200
Main Office 2	\$1,080	\$620	\$7,440	\$37,200
Paratransit 1	\$1,080	\$620	\$7,440	\$37,200
Paratransit 2	\$1,080	\$620	\$7,440	\$37,200
Total	\$4,320	\$2,480	\$29,760	\$148,800
Total Contract Amount				\$153,120

Projected Project Schedule

Task	Start
Preliminary Design and Research	On-going
Hardware Procurement	November – December 2018
Proof of Concept	February 2019 – May 2019
Final Design Review	June 2019
Pilot Program	June – August 2019
Hardware Installation and Testing	August 2019
Project Closeout	April – June 2020

Recommendation

- Staff requests that the Operational Planning & Infrastructure Committee recommend to the Board of Trustees the award services for Agile Networks in an amount not to exceed \$153,120.00 for a period of five years.

Questions

Greater Cleveland Regional Transit Authority

