

## Board of Education Report

**ADOPTED BY BOARD****AUGUST 24, 2021****File #:** Rep-015-21/22, **Version:** 1**Approval of Facilities Contract Actions - Radio Communications****August 24, 2021****Procurement Services Division - Facilities Contracts****Action Proposed:**

Approve the following actions:

- The finding that the procurement of a public safety voice radio communication system qualifies under Public Contract Code (PCC) 20118.2 for competitive negotiation procurement; and
- Authorize the Chief Procurement Officer and/or her designee to approve the solicitation, negotiation, and award of the contract using the competitive negotiation procurement process pursuant to PCC 20118.2.

**Background:**

Due to the highly specialized and unique nature of public safety radio communications systems and related equipment, software, and services; and because products and materials of that nature are undergoing rapid technological changes; and in order to allow for the introduction of new technological changes into the operations of the District, staff is proposing to use the competitive negotiation procurement permitted under PCC 20118.2. Under this code provision, the District is able to consider, in addition to price, factors such as vendor financing, performance reliability, standardization, life-cycle costs, delivery timetables, support logistics, the broadest possible range of competing products and materials available, fitness of purchase, manufacturer's warranties, and similar factors in the award of the contract for a full integrated public safety radio communications system, related equipment, software, and services.

In accordance with PCC 20118.2, the District issues a Request for Proposal (RFP), evaluates the responses to the RFP, and makes an award to the qualified firm whose proposal meets the evaluation standards and will be most advantageous to the District with price and all other factors considered. Small Business Enterprise (SBE), Micro-SBE, Veteran Business Enterprise (VBE) and Disabled VBE (DVBE), and student Work-Based Learning Program (WBLP) will be included as part of the evaluation criteria.

The goal of this Project is to implement a cost-effective, highly reliable public safety radio communications system that meets the District's needs for the next 10 - 15 years.

This Project will cover 710 square miles which includes the City of Los Angeles, along with all or portions of 26 cities and unincorporated areas of Los Angeles County. All LAUSD and dependent school sites are included in this procurement, currently at (842) schools to be covered for emergency communications on the new system. Also on the system for both daily and emergency radio communications are: school buses and transportation (1680); LA School Police vehicles, handhelds, and base radios (1063); emergency services, M&O, and other staff radio users (300).

**File #: Rep-015-21/22, Version: 1**

The District radio infrastructure provides mission critical communications between Los Angeles County Emergency First Responders, LAUSD School Police Department (LASPD), LAUSD Emergency Operations Center (EOC), District schools/administrative locations, and Transportation Services Department (TSD). This includes emergency as well as daily communication services.

District radio users are experiencing operational and technical issues including coverage, reliability, interoperability between isolated radio systems, maintenance and support of the obsolete systems. Recognizing the needs for providing effective communications to schools and staff, especially during the times of emergencies, the District will issue an Request for Proposal (RFP) to replace the multiple existing radio systems with a single modern radio system.

The scope of this project is to replace the two stand-alone aging Radio Systems with one unified Radio System and replace the obsolete Computer Aided Dispatch (CAD) application in order to meet critical daily and emergency communication needs and is interoperable with local First Responders' public safety communication networks. The new system will be more robust and resistant to failure as well as provide improved capacity and interoperability between LAUSD users and First Responder agencies. Additionally, it will provide enhanced communications for schools and staff to have the ability to reach emergency services in a more direct way when conventional communications are down.

This system will replace the obsolete aging infrastructure that has reached end of life and support. It will provide improved access to communications in times of emergencies.

The proposed action will allow the District to implement a Modernized Communications System Districtwide as part of the 2018 Information Technology (IT) Strategic Execution Plan (SEP) as approved by the Board (BOE) on June 12, 2018 and previously authorized by the Citizen's Bond Oversight Committee (BOC). The RFP process is subject to approval on August 24, 2021 (BOE # 015-21/22).

The resulting contract will provide the District with a full Modernized Radio Communications system, including all associated hardware, software, extended warranties, and related services. The use of the competitive negotiation procurement method will help to ensure the safety of the students and staff. The funding source shall be Bond Measure Q and Y previously approved through the IT Strategic Execution Plan.

The Project location is Districtwide and will include all Board Districts.

**Expected Outcomes:**

The Board Action will authorize the competitive negotiation procurement process, which will allow the District to provide a fully functional Radio Communications system to meet the District's daily and emergency communication needs.

**Board Options and Consequences:**

Pursuant to PCC 20018.2, the Board of Education must make a finding that the Project qualifies for competitive negotiation procurement. Approving competitive negotiation procurement for technology, telecommunications, related equipment, software, and services will allow the District to procure a converged Radio Communications system at a price and quality that is in the best interests of the District. Failure to approve the requested action would limit the District's ability to introduce new technological changes into the operation of the District as proposed in the Project.

ADOPTED BY BOARD

AUGUST 24, 2021

**Policy Implications:**

This action is consistent with the District's long-term goal to modernize technological infrastructure to support the needs of our students and staff.

**Budget Impact:**

This Project is within the budget authority previously approved by the Board. The Project is being funded with Bond Program funds and there is no General Fund impact.

**Student Impact:**

Continuing our efforts to undertake critical school repair and safety improvement projects is a vital component to the District's ability to provide safe school environments that promote teaching and learning.

**Issues and Analysis:**

There are no policy implications in this action.

Staff has concluded that this proposed SEP amendment will facilitate implementation of the ITD SEP, and therefore, it will not adversely affect the District's ability to successfully complete the ITD SEP.

**Bond Oversight Committee Recommendations:**

This item was considered by the School Construction Bond Citizens' Oversight Committee (BOC) at its meeting on May 31, 2018. The BOC adopted the attached resolution by a vote of 9 ayes and 0 nays.

**Attachments:**

Attachment A - BOC Resolution 2018 - 2019

**Informatives:**

Not Applicable

**Submitted:**

07/30/21

**ADOPTED BY BOARD**

**AUGUST 24, 2021**

**RESPECTFULLY SUBMITTED,**

MEGAN K. REILLY  
Interim Superintendent

**APPROVED BY:**

PEDRO SALCIDO  
Interim Deputy Superintendent  
Office of the Deputy Superintendent

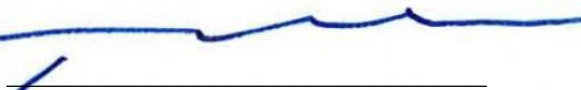
**REVIEWED BY:**

DEVORA NAVERA REED  
General Counsel

☒ Approved as to form.

**APPROVED BY:**

MARK HOVATTER  
Chief Facilities Executive  
Facilities Services Division

**REVIEWED BY:**

TONY ATIENZA  
Director, Budget Services and Financial Planning

☒ Approved as to budget impact statement.

**APPROVED & PRESENTED BY:**

JUDITH REECE  
Chief Procurement Officer  
Procurement Services Division

**PRESENTED BY:**

SOHEIL KATAL  
Chief Information Officer  
Information Technology Division

ADOPTED BY BOARD  
AUGUST 24, 2021

## SCHOOL CONSTRUCTION BOND CITIZENS' OVERSIGHT COMMITTEE

**Quynh Nguyen, Chair**

LAUSD Student Parent

**Susan Linschoten, Secretary**

L.A. Co. Auditor-Controller's Office

**Stuart Magruder, Executive Committee**

American Institute of Architects

**Rachel Greene, Executive Committee**

Tenth District PTSA

**Bevin Ashenmiller**

LAUSD Student Parent

**Araceli Sandoval-Gonzalez**

Early Education Coalition

**Greg Good**

L.A. City Mayor's Office

**Michael Keeley**

CA Charter School Association

**Karen Krygier**

L.A. City Controller's Office

**Kate Mergen**

Assoc. General Contractors of CA

**Ron Miller**

L.A. Co. Federation of Labor AFL-CIO

**Scott Pansky**

L.A. Area Chamber of Commerce

**Dolores Sobalvarro**

AARP

**Kathryn Steinberg**31<sup>st</sup> District PTSA**Celia Ayala (Alternate)**

Early Education Coalition

**Arlene Barrera (Alternate)**

L.A. Co. Auditor-Controller's Office

**(Vacant)**

CA Tax Reform Assn.

**Joseph P. Buchman – Legal Counsel**

Burke, Williams &amp; Sorensen, LLP

**(Vacant)**

Oversight Committee Consultant

**Timothy Popejoy**

Bond Oversight Administrator

**Daniel Hwang**

Asst. Administrative Analyst

## RESOLUTION 2018-19

## BOARD REPORT NO. 529-17/18

AMENDMENT TO THE INFORMATION TECHNOLOGY DIVISION STRATEGIC  
EXECUTION PLAN TO APPROVE THE RADIO SYSTEM MODERNIZATION  
PROJECT

WHEREAS, staff proposes that the Board of Education approve an amendment to the Information Technology Division (ITD) Strategic Execution Plan (SEP) to approve the following actions:

- Approve the definition of the Radio Systems Modernization Project.
- Approve the allocation of new sources of capital funds into the ITD managed portion of the School Upgrade Program (SUP) category of need as follows: \$11,401,895 from cost savings from completed Rebanding and Narrow Banding Radio Projects in the ITD SEP.
- Approve an increase in the spending target associated with the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need.
- Allocate \$38,088,895 of bond funds from the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need to execute the Radio Systems Modernization Project, as described in Attachment A;

WHEREAS, the SUP includes a spending target to address “Upgrade Districtwide Emergency Radio System Servicing Schools”; and

WHEREAS, the intended outcomes of the proposed project to be executed within this spending target are as follows:



**RESOLUTION 2018-19****AMENDMENT TO THE INFORMATION TECHNOLOGY DIVISION STRATEGIC EXECUTION PLAN TO APPROVE THE RADIO SYSTEM MODERNIZATION PROJECT**

- The Radio Systems Modernization Project will unify LAUSD's various radio systems into one that is scalable and has the ability to add new features or integrate newer technologies. The unified radio system will also have increased capacity to obtain critical and timely information from schools to improve response times or dispatch critical resources in the case of an emergency; and

WHEREAS, the Radio Systems Modernization Project is consistent with the District's commitment to address critical technology, communications, and safety needs; and

WHEREAS, District Staff has concluded that the proposed SEP amendment will facilitate implementation of the ITD SEP, and therefore, it will not adversely affect the District's ability to successfully complete the ITD SEP.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The School Construction Citizens' Bond Oversight Committee recommends that the Board of Education adopt an Amendment to the Information Technology Division Strategic Execution Plan to approve the Radio Systems Modernization Project described in detail in Board Report 529-17/18, a copy of which is attached hereto in the form it was presented to the BOC and is incorporated herein by reference.
2. This resolution shall be transmitted to the Los Angeles Unified School District Board of Education and posted on the Oversight Committee's website.
3. The District is directed to track the above recommendation and to report on the adoption, rejection, or pending status of the recommendations as provided in section 6.2 of the Charter and Memorandum of Understanding between the Oversight Committee and the District.

ADOPTED on May 31, 2018 by the following vote:


AYES: 9

ABSTENTIONS: 0

NAYS: 0

ABSENCES: 5

  
Quynh Nguyen  
Chair

  
Stuart Magruder  
Executive Committee

**ADOPTED BY BOARD**

**AUGUST 24, 2021**

Bond Oversight Committee

333 S. Beaudry Avenue, 23<sup>rd</sup> Floor, Los Angeles, CA 90017 ♦ Phone: 213. 241.5183 ♦ Fax: 213.241.8354 ♦ [www.laschools.org/bond](http://www.laschools.org/bond)



## Board of Education Report

**ADOPTED BY BOARD**  
**AUGUST 24, 2021**

---

**File #:** Rep-529-17/18, **Version:** 2

---

**Amendment to the Information Technology Division Strategic Execution Plan to Approve the Radio Systems Modernization Project**  
**June 12, 2018**  
**Information Technology Division**

**Action Proposed:**

Staff proposes that the Board of Education amend the Information Technology Division (ITD) Strategic Execution Plan (SEP) to approve the following actions:

- Approve the definition of the Radio Systems Modernization Project.
- Approve the allocation of new sources of capital funds into the ITD managed portion of the School Upgrade Program (SUP) category of need as follows: \$11,401,895 from cost savings from completed Rebanding and Narrow Banding Radio Projects in the ITD SEP.
- Approve an increase in the spending target associated with the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need.
- Allocate \$38,088,895 of bond funds from the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need to execute the Radio Systems Modernization Project, as described in Attachment A.

**Background:**

On January 14, 2014, the Board of Education approved the establishment of the School Upgrade Program (SUP), the next phase of the District's Bond Program which will modernize, build and repair school facilities to improve student health, safety and educational quality. The Board's action approved the overarching goals and principles, funding sources, specific categories of need, and spending targets for the SUP. As proposed projects are developed, they are submitted to the Bond Oversight Committee (BOC) for consideration and the Board of Education for approval.

The SUP includes a spending target to “Upgrade Districtwide Emergency Radio System Servicing Schools.” The intended outcomes of the proposed project to be executed within this spending target are as follows:

- The Radio Systems Modernization Project will unify LAUSD’s various radio systems into one that is scalable and has the ability to add new features or integrate newer technologies. The unified radio system will also have increased capacity to obtain critical and timely information from schools to improve response times or dispatch critical resources in the case of an emergency. \$38,088,895 (100% Bond Fund).

If approved, ITD will provide quarterly updates.

**Expected Outcomes:**

Staff anticipates that the Board will amend the ITD-SEP to define the Radio Systems Modernization Project described herein and allocate \$38,088,895 of Bond Program funding. This project will help address the critical needs of the District's emergency radio system.

**Board Options and Consequences:**

Failure or delay of approval will postpone the execution and/or implementation of the Radio Systems Modernization Project and the associated benefit to the schools and students.

**Policy Implications:**

This action is consistent with the District's long-term goal to address unmet school needs as described in Proposition BB and Measures K,R,Y, and Q.

**Budget Impact:**

The Radio Systems Modernization Project has a total budget of \$38,088,895 of Bond Program funding. This funding will be allocated from the following sources:

<b>Amount</b>	<b>Funding Source</b>
\$11,401,895	Bond Funds from cost savings from completed Rebanding and Narrow Banding Radio Projects in ITD SEP
\$26,687,000	Bond Funds from "Upgrade Districtwide Emergency Radio System Servicing Schools" SUP category of need
\$38,088,895	<b>GRAND TOTAL</b>

**Bond Oversight Committee Recommendations:**

This item was considered by the BOC at its meeting on May 31, 2018. Staff has concluded that the proposed SEP amendments will help facilitate implementation of the ITD SEP, and therefore, it will not adversely affect the District's ability to successfully complete the SEP.

**Attachments:**

Attachment A - Project Definitions and Associated Actions  
Attachment B - Bond Oversight Committee Meeting Presentation  
Attachment C - Bond Oversight Committee Resolution

**Informatives:**

None.

**ADOPTED BY BOARD**

**AUGUST 24, 2021**



File #: Rep-529-17/18, Version: 2

ADOPTED BY BOARD

AUGUST 24, 2021

Submitted:

RESPECTFULLY SUBMITTED,



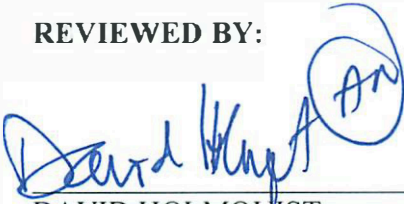
AUSTIN BEUTNER  
Superintendent

APPROVED & PRESENTED BY:



SHAHRYAR KHAZEI  
Chief Information Officer  
Information Technology Division

REVIEWED BY:



DAVID HOLMQUIST  
General Counsel

☒ Approved as to form.

REVIEWED BY:



CHERYL SIMPSON  
Director, Budget Services and  
Financial Planning

☒ Approved as to budget impact statement.



MARK HOVATTER  
Chief Facilities Executive

☒ Approved as to impacts to facilities.

**ADOPTED BY BOARD**  
**AUGUST 24, 2021**



## Information Technology Strategic Execution Plan Project Definition and Associated Actions Attachment A – BOE #529-17/18

**Program:** Safety, Communications, and Security  
**Project:** Radio System Modernization Project  
**Budget:** \$38,088,895 (100% Bond)

### Introduction

The current condition and limitations of the District's radio systems presents challenges to school, school police, emergency operations, and transportation staff. The radio systems were designed based on needs identified in the 1980's, providing two radio systems, one made up of five frequencies for bus transportation, and a second radio system made up of two different frequencies for School Police.

### Current Conditions

- The Radio system primarily used by Bus Transportation Radio is obsolete and does not interoperate with other agencies or newer technologies.
- The Radio System and frequencies used by School Police, Emergency Operations, and schools is oversubscribed and overloaded. During major emergencies, elementary and small schools must call a secondary school who in turn radios information to the District's Emergency Operations Center.
- Both Radio systems have coverage issues and cannot communicate with each other.
- Both Radio Systems lack redundancy or back-up capabilities.
- Challenges when communicating with other First Responder and Emergency Service Agencies that have newer Radio technologies.

To meet Federal Communications Commission (FCC) mandates and timelines the Radio Project had to be completed as three projects. The Narrowband Project fulfilled the requirement for the District to move radio frequencies for schools, School Police, and Emergency Operations to half of the original frequencies (from 25 Mhz to 12.5 Mhz), upgraded equipment and replaced radios that communicated on two frequencies.

The Reband Project fulfilled the requirement for the District to move the Transportation Radio System to a new set of frequencies (primarily funded by Sprint through an FCC agreement. The scope was a like-for-like exchange of analog technologies). The locations of the frequencies required a treaty between the United States and Mexico. This delayed the project almost 10 years. This work had to be completed before the District could do any major radio equipment upgrades.

The Radio System Modernization Project will upgrade and modernize the District's radio system infrastructure and unify the District's radio systems onto one system using the seven available frequencies while replacing obsolete analog and aging technologies from both legacy radio systems.



## **Information Technology Strategic Execution Plan Project Definition and Associated Actions Attachment A – BOE #529-17/18**

The modernized radio system will give staff the ability to allocate voice or radio communication resources during emergencies based upon established priorities and needs. The design allows full flexibility for best use of the limited frequencies. Major fires in the valley earlier this year emphasized the need for increased radio resources and flexibility to communicate just-in-time decisions to school police and school staff to keep students and staff safe.

### **Scope**

- Architect, design, and engineer a highly reliable Unified Radio Communication System
- Design and build to be Criminal Justice Information Services (CJIS) compliant
- Design to maximize limited Radio resources and integrate new wireless technologies to meet capacity needs, improve coverage, and increase reliability.
- Replace the obsolete analog 800MHz system to meet required P25 digital specifications and requirements
- Replace both 800 MHz and 450 MHz systems with a unified system fully interoperable with other first responder emergency agencies.
- Replace schools, School Police, Transportation, and Emergency operation staff obsolete and aging radios.

### **Expected Outcomes**

- Improved reliability and availability of critical communications
- Increased capacity to obtain critical timely information from schools to improve response times to be able to dispatch critical resources
- Increased ability for school and support staff more easily communicate and share information with other Police, Fire, and Emergency Agencies
- Ability to fail over to other available technologies and commercially available public safety core to ensure maximum uptime if the Radio core fails
- Secured communications
- Up-to-date scalable and flexible Radio System that provides to scale up to accommodate more users and has the ability to add new features or integrate newer technologies.

### **Schedule**

Estimated completion is June 2021.



# Proposed IT Strategic Execution Plan Amendment To Approve the Radio System Modernization Project BOE 529-17/18

Shahryar Khazei, Chief Information Officer

May 31, 2018

ADOPTED BY BOARD  
AUGUST 24, 2021

ATTACHMENT B 140  
693



MODERNIZE THE DISTRICT’S RADIO SYSTEMS

Scope	Schedule	Budget
Modernize the District’s Radio System - Design and build a Unified Radio Communication System including upgrading or replacing equipment, consoles, receivers, and radios.	Estimated completion date Q2 2021	Measure Y - \$11,401,895 Measure Q - 26,697,000 <b>Total - \$38,088,895</b>

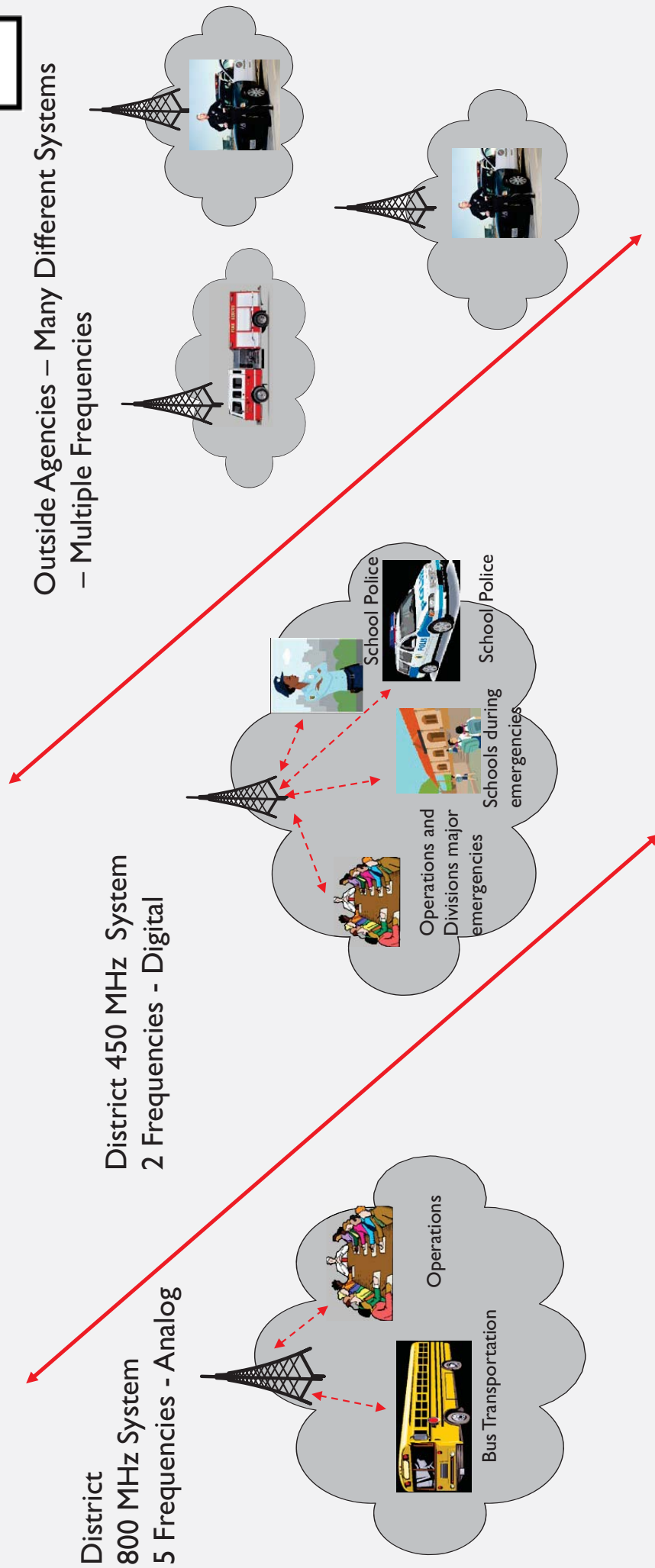
Benefits:

- Improved reliability and availability
- Increased capacity to obtain critical information allowing for more rapid response to provide assistance and dispatch critical resources
- Ability to communicate and share information with other Police, Fire, and Emergency Agencies
- Ability to fail-over to other available technologies and available public safety systems to ensure maximum uptime
- Secure communications
- Up-to-date scalable and flexible technologies providing the ability to scale for more users and add new features

ADOPTED BY BOARD  
AUGUST 24, 2021



# TODAY DIFFERENT RADIO SYSTEMS



5/31/2018

3

# WHY THE DISTRICT RADIO SYSTEMS NEED TO BE MODERNIZED

Originally designed in the 1980's. Architecture and technologies do meet today's needs.

Challenges	800 MHz (5 Frequencies)	450 MHz (2 Frequencies)
Coverage	<b>Limited</b> -high terrain and buildings block radio coverage <b>No</b> in building coverage	Some areas <b>limited</b> - terrain block radio coverage for some mobile unit <b>Limited</b> - In building (handheld radio) coverage
Capacity	<b>Limited</b> – primarily used by school buses. <b>Limited</b> – due to <b>obsolete</b> analog technology	<b>Limited</b> – School police use daily frequent overloading of frequencies. <b>Limited</b> during emergencies - system further overloaded when Emergency Operations and schools use.
Interoperability (Plan)	<b>None</b>	<b>None</b>
Redundancy	<b>None</b>	<b>None</b>
Backup	<b>Limited</b> - Repeaters have short term battery backup. Once battery fails no communication.	

ADOPTED BY BOARD  
AUGUST 24, 2021

# GOAL: UNIFIED RADIO COMMUNICATION SYSTEM

