Runge Independent School District

Technology Plan

2019 – 2024

Table of Contents

Executive Summary

In 1995 the Texas Legislature created the Telecommunications Infrastructure Fund (TIF). The purpose of the fund was to provide network infrastructure and computers for schools. Unfortunately the Legislature allowed TIF to expire in 2003 and the progress that had been made in many schools began to fade as the technology began to age and become obsolete. The loss of TIF funds was only one funding problem affecting technology. At the same time TIF ended, the state's Technology Allotment was reduced and the Title 2d grant was almost entirely eliminated. TEA's Long Range Plan for Technology (LRPT), 2006 – 2020 describes the problem as districts are attempting to implement 21st Century skills with 20th Century funding. The LRPT goes on to state that sustainable and forward-thinking funding is needed, especially when more applications of technology are being recommended.

The intent of this plan is to provide readers with an overview of technology in the Runge Independent School District. The plan outlines how the district will provide present and future technology needs for the instruction of RISD students, the technology needs of staff to support our students, and the technology infrastructure to support the district. The result is a 5 year technology plan that will guide the future of technology in RISD.

A sustainable, forward thinking funding approach is recommended in this plan. Board approval will enable the district to provide sustainable funds for hardware equipment, software, instructional technology, and support. The new budget will provide a five to seven year evaluation and if need be replacement cycle for the district's desktop computers and Chromebooks, network servers, security camera system, network switches & components, wireless internet system, intercom and phone systems, and any additional technology components and software that the district may need. Since RISD has recently went through a new school build and recently updated the majority of the technology and technology systems in the district, most technology devices and systems will not need to be replaced or updated for five to seven years.

The district recognizes that it must carefully monitor and analyze the cost of technology compared to its impact on student performance. The technological landscape is exciting and ever-changing. Emerging technologies regularly appear on the market. The district will monitor these new technologies on an ongoing basis to determine how they might enhance student and district performance.

 Overall this plan…

- ❖ Establishes a budget to provide for the district's long term technology needs.
- ❖ Sets priorities and standards for technology purchases.
- ❖ Ensures technology is available and equitable.

5 Year Technology Budget Summary
Current Budget

Current Budget Summary[1]	2019 - 2020
Network Services	$16,000
Technology Supplies	$4,000
Security Cameras	$10,000
	$30,000

5 Year Technology Budget Summary By Funding Year

Current Budget Summary	2019 - 2020	2020 – 2021	2021 - 2022	2022 - 2023	2023 - 2024
Network Services	$16,000	$16,000	$16,000	$16,000	$16,000
Technology Supplies	$4,000	$4,000	$4,000	$4,000	$4,000
Furniture/Equipment	$20,000	$20,000	$20,000	$20,000	$20,000
Security Cameras	$10,000	$10,000	$10,000	$10,000	$10,000
Total Current Budget	**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**

Philosophy Statement

The purpose of technology in RISD is to serve the safety, educational and instructional needs of students and teachers, and the safety & management needs of administrators. We believe that:

- ❖ The technology utilized in RISD will support our goal of becoming a Recognized District.

- ❖ The technology utilized in RISD will be purchased in a fiscally responsible manner.

- ❖ The necessary technology tools utilized in RISD for students, teachers, and administrators will be provided by the district.

- ❖ The technology provided to students, teachers, and administrators will be high quality, appropriate for the task, and well maintained throughout its useful life.

- ❖ The district will provide support to help integrate technology with effective classroom instruction.

- ❖ The instructional software selected will support the philosophy and goals of the district.

- ❖ The technology staff will provide outstanding customer service.

- ❖ The district's information systems will support the daily data needs of students, teachers and administrators.

- ❖ The computing environment will be secure and maintained through appropriate content filtering and virus protection.

- ❖ The ongoing evaluation of emerging technologies will be a component of the RISD technology plan.

Instructional Technology Standards

The following are minimum technology equipment standards for all general education classrooms:

I. Student Computers & Chromebooks
   a. Wireless network access will be available in classrooms and common areas of each campus.
   b. Desktop computers & Chromebooks will be evaluated and if needed, replaced after completing five to seven years of service.
   c. One computer lab consisting of desktop computers and a printer will be available on each campus.
   d. At least one Chromebook cart will be available on each campus to be used for instructional time and research when needed.
   e. Access to computers for library research will be made available.

II. Teacher Computers
   a. A 1:1 teacher to computer ratio shall be maintained.
   b. Wireless network access will be available in classrooms and common areas of each campus.
   c. Computers will be evaluated and if needed, replaced after completing five to seven years of service.
   d. Staff Chromebooks are supported.
   e. Desktop computers will be equipped with dual port video cards and high-speed USB ports to enable connection to the digital touch-screen displays or TV, document cameras, and other like equipment.

III. Digital Touch-Screen Displays or TV
   a. Instructional areas shall be equipped with a digital TV or display.
   b. The digital touch-screen TV or display will be connected to the teacher's desktop computer.

IV. Printer
   a. Every classroom has access to network ready multi-function printers located in both the elementary and high school teacher lounges. Color print jobs should be directed to the campus secretary for the assistance of color printing.
   b. Computer labs will have access to network ready multi-function printers.

V. Software
   a. Instructional technology software will be approved by district & campus leaders.
   b. Instructional software will meet the needs of our diverse student population including multi-language support.

I. Voice Over IP (VoIP) Telephones
   a. VoIP phone will operate continuously.
   b. Every classroom will have access to a VoIP telephone.

VI. Other Equipment
   a. Other technology related equipment such as, but not limited to the following list, will be considered on an individual basis.
      i. Document cameras (Elmo)

VII. Special Needs
   a. Adaptive devices for special needs students and staff are supported.
      i. The RISD Special Education Department will make recommendations for the devices that are appropriate for each situation.
      ii. The Technology Department will assist as needed to evaluate, install and maintain adaptive devices.
   b. Other Program Needs
      i. Software and devices for special programs will be recommended by the respective program leaders.
      ii. Special software and devices will be evaluated for deployment on an individual basis.

Administrative Technology Standards

The following are minimum technology equipment standards for administrators. Administrators are staff members who are not engaged in direct student instruction.

    I. Administrator Computers
- a. A 1:1 administrator to computer ratio shall be maintained.
- b. Computers will be evaluated and if needed, replaced after completing five to seven years of service.
- c. Chromebooks are supported.

   II. Printers
- a. Printing should be generally conducted through a department multi-function printer/copier.

  III. Software
- a. Microsoft Office or the Google Docs Editors Office Suite is the standard productivity software throughout the district for desktop computers.
    - i. Upgrades to new versions of MS Office will occur in conjunction with the computer replacement cycle or when the Technology Department deems it necessary.

  IV. Voice Over IP (VoIP) Telephones
- c. VoIP phone will operate continuously.
- d. Every office and common area room will have access to a VoIP telephone.

   V. Other Equipment
- a. Other technology related equipment such as, but not limited to the following list, will be considered on an individual basis.
    - i. Dual computer displays
    - ii. Desktop & Chromebook computers anti-glare & privacy screens

Infrastructure Technology Standards

The following are minimum infrastructure technology equipment standards & requirements needed to conduct a safe working technological infrastructure to support RISD students and staff.

I. Network Servers
   a. Servers will operate continuously to provide internet access.
   b. Servers will allow students & staff to login into computers and devices.
II. Network Switches
   a. Switches will operate continuously to provide internet and intranet connections to all Ethernet & wireless connected devices and clients.
   b. Switches will provide internet and intranet services to all campuses and district buildings that require services.
III. Wireless Internet System
   a. Wireless Controller Server will operate continuously to provide wireless internet to district access points.
   b. Wireless access points will operate continuously to provide wireless internet to wireless clients.
IV. Security Camera System
   a. Camera Server will operate and record continuously the video feed from the cameras.
   b. Cameras will operate continuously recording video of school district property.
V. Voice Over Internet Protocol (VoIP) Telephone System
   a. VoIP phone gateway and router will operate continuously to provide telephone services to district.
   b. VoIP phone server will operate continuously to provide telephone services to district.
   c. VoIP phone handsets will operate continuously in all classrooms, offices, and common areas.
VI. Intercom System
   a. Handset phones will operate continuously to provide the communications from the user to the intercom system.
   b. Intercom system will operate continuously to provide single or mass communications within our district to the speakers and horns connected.
   c. Speakers and horns mounted in ceilings and walls will provide the audio communications.

Technology Evaluation Plan

The district recognizes that it must carefully monitor and analyze the cost of technology compared to its impact on student performance. Therefore, plan evaluation will be ongoing and include suggestions and feedback from campus leaders and staff.

New Technology Initiatives

The technological landscape is exciting and ever-changing. Emerging technologies regularly appear on the market. The district will monitor these new technologies on an ongoing basis to determine how they might enhance student and/or district performance.

2019 – 2020 Technology Priorities

Priorities Strategy or Activity	Department
1. Installation of security cameras to cover blind spots on exterior and interior of district campus buildings and hallways. Installation of new security cameras to replace old aging cameras.	Technology
2. Replaced aging fax line and move to new telephone port.	Technology
3. Evaluation of purchasing 40 - 60 Chromebooks for student use, plus, Chromebook storage carts.	Technology
4. Evaluate Chromebooks health	Technology

2020 – 2021 Technology Priorities

Priorities Strategy or Activity	Department
1. Purchase set of Chromebooks and cart for student use.	Technology
2. Evaluate our Domain Controllers servers one and two health and move time clock software to new server.	Technology
3. Evaluate Chromebooks health	Technology

2021– 2022 Technology Priorities

Priorities Strategy or Activity	Department
1. Evaluate high school library switches health	Technology
2. Evaluate practice and competition gyms switches health	Technology
3. Evaluate Chromebooks health	Technology

2022 – 2023 Technology Priorities

Priorities Strategy or Activity	Department
1. Evaluate cafeteria switch health	Technology
2. Evaluate maintenance building switch health	Technology
3. Evaluate elementary switches health	Technology
4. Evaluate Chromebooks health	Technology

2023– 2024 Technology Priorities

Priorities Strategy or Activity	Department
1. Evaluate server room core switch and server room secondary switches health	Technology
2. Evaluate field house switch health	Technology
3. Evaluate junior high switches health	Technology
4. Evaluate Chromebooks health	Technology