

Instructional Technology Plan - Annually - 2016

LEA Information

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A. LEA Information

1. 2014-2015 Student Enrollment

| | Total Enrollment | Pre-K Enrollment | K-2 Enrollment | 3-5 Enrollment | 6-8 Enrollment | 9-12 Enrollment | Ungraded Enrollment |
|--------------------|------------------|------------------|----------------|----------------|----------------|-----------------|---------------------|
| Student Enrollment | 1,205 | 0 | 264 | 291 | 273 | 372 | 5 |

2. What is the name of the district administrator entering the technology plan survey data?

John Piccarella

3. What is the title of the district administrator entering the technology plan survey data?

Assistant Superintendent

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Instructional Technology Vision and Goals

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B. Instructional Technology Vision and Goals

1. Please provide the district mission statement.

The East Rockaway School District will increase achievement of all students by creating engaging learning environments that successfully balance curriculum, expectations and pedagogy.

The East Rockaway School District will increase opportunities that foster academic, social and emotional achievement for all students.

The East Rockaway School District will expand curricular opportunities and increase innovative approaches to teaching and learning in a safe and supportive environment that capitalizes on our human, financial and technological resources.

The East Rockaway School District will provide students with rich and challenging academic, extracurricular and service learning experiences by creating greater connections among students, families, alumni, community members and society.

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Instructional Technology Vision and Goals

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2. Please provide the executive summary of the instructional technology plan, including vision and goals.

Technology Vision Statement

Current and emerging technology will be available to all students and staff on campus and off campus. Students, parents, teachers, administrators and staff will use technology as a tool for learning and communication. Members of the learning community can easily access and analyze information, collaborate and communicate with others electronically. We will be able to work independently and pursue areas of interest for life-long learning. Our students' experiences with technology will enable them to compete in a global society.

Teachers will use technology to engage students in meaningful learning.

Technology will support differentiation of instruction by content, process, or product. All members of the learning community will use technology to collect and analyze student data for the purpose of improving student achievement.

Teachers, support staff, and administrators will seek out and participate in professional development activities that will enable them to be proficient practitioners of instructional technologies. The aim of this professional development will be to improve student achievement, research best educational practices, communicate and build relationships with members of the learning community, and manage student information.

Goal #1: Current and emerging technologies will be available and accessible to administrators, teachers, support staff, and students, including wireless hand-held devices for individual use, and for computer-based assessment and instruction.

Goal #2: Administrators, teachers, and support staff will be proficient with technology for learning and communication, and in support of the New York State Common Core Learning Standards, including: web 2.0 technologies such as Google apps, hand-held devices, and Smart classroom technology.

Goal #3: Students will learn effective and ethical use of technology to enhance their learning, promote creativity, and access and analyze information so as to develop higher order thinking skills, by accessing curricular and other resources to support learning beyond the school day.

Goal #4: Technology will be integral to instruction, providing dynamic, differentiated, and effective learning experiences. It will be used to manage student information, and collect and analyze student data for the purpose of assessment and improving student achievement. The district will explore a central Learning Management System for sharing essential information about teaching and learning.

Goal #5: Communication between and among the staff, students, parents, within and across school buildings, and community at large will be enhanced through the use of technology.

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3. **Please summarize the planning process used to develop the instructional technology plan. Please include the stakeholder groups participating and outcomes of the instructional technology plan development meetings.**

The district Digital Age Skills committee met multiple times to develop goals derived from the district's 5-year Strategic Planning Initiative. Parents, students, administrators and faculty participated in the Strategic Planning initiative. Instructional technology personnel, teachers and the library media specialists participated in the Digital Age Skills committee. Additionally, instructional technology staff met with BOCES, CUNY and with our private school community to align our plans with those institutions.

4. **Please provide the source(s) of any gap between the current level of technology and the district's stated vision and goals.**

- Access Points
- Cabling
- Connectivity
- Device Gap
- Network
- Professional Development
- Staffing
- Other
- No Gap Present

5. **Based upon your answer to question four, what are the top three reasons causing the gap? If you chose "No Gap Present" in question four, please enter N/A.**

N/A

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Instructional Technology & Infrastructure Inventory

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C. Technology and Infrastructure Inventory

1. Please identify the capacity of the telecommunications line coming into the district network hub. The district's Regional Information Center can provide the district with this information if needed.

- Greater than 10 Gbps
- 10 Gbps
- 1 Gbps - < 10 Gbps
- 100 Mbps - < 1Gbps
- 50 Mbps - < 100 Mbps
- 10 Mbps - < 50 Mbps
- Less than 10 Mbps

2. What is the total contracted Internet bandwidth access for the district? Choose one.

- Greater than 10 Gbps
- 10 Gbps
- 1 Gbps - < 10 Gbps
- 100 Mbps - < 1 Gbps
- 50 Mbps - < 100 Mbps
- 10 Mbps - < 50 Mbps
- Less than 10 Mbps

3. What is the name of the agency or vendor from which the district purchases its primary Internet access bandwidth service?

Nassau BOCES

4. Please identify the capacity of the telecommunications line coming into the district's school building(s) from the district hub or district data center. The district's Regional Information Center can provide this information if needed

| | Speed in Gbps or Mbps |
|------------------|--|
| Minimum Capacity | <ul style="list-style-type: none"> <input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input checked="" type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps |
| Maximum Capacity | <ul style="list-style-type: none"> <input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input checked="" type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps |

5. Please identify the minimum and maximum circuit speeds at which the classrooms in the district are connected to the school building wiring/network closet.

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| | |
|--|--|
| | Please provide the speed at which classrooms are connected to building wiring/network closet. |
| Minimum Circuit Speed Within a School Building | <input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input checked="" type="checkbox"/> 1 Gbps - < 10Gbps <input type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps |
| Maximum Circuit Speed Within a School Building | <input type="checkbox"/> Greater than 10 Gbps <input checked="" type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps |

6. What are the minimum and the maximum port speeds of the switches that are less than five years old in use in the district?

| | Port speed of switches | Mbps or Gbps |
|------------------------------|------------------------|---|
| Minimum Capacity of Switches | 1 | <input type="checkbox"/> Mbps <input checked="" type="checkbox"/> Gbps |
| Maximum Capacity of Switches | 10 | <input type="checkbox"/> Mbps <input checked="" type="checkbox"/> Gbps |

7. What percentage of the district's wireless protocols are less than 802.11g?

0

8. Do you have wireless access points in use in the district?

- Yes
- No

8a. What percentage of your district's instructional space has wireless coverage?

100

9. Does the district use a wireless controller?

Yes

10. How many computing devices less than five years old are in use in the district?

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Instructional Technology & Infrastructure Inventory

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| | Number of devices in use that are less than five years old | How many of these devices are connected to the LAN? |
|---|--|---|
| Desktop computers/Virtual Machine (VM) | 378 | 378 |
| Laptops/Virtual Machine (VM) | 334 | 334 |
| Chromebooks | 24 | 24 |
| Tablets less than nine (9) inches with access to an external keyboard | 0 | 0 |
| Tablets nine (9) inches or greater with access to an external keyboard | 0 | 0 |
| Tablets less than nine (9) inches without access to an external keyboard | 0 | 0 |
| Tablets nine (9) inches or greater without access to an external keyboard | 33 | 33 |
| Totals: | 769.00 | 769.00 |

11. What percentage of students with disabilities in the school district, as of the submission date of this technology plan, have assistive technology documented on their Individual Education Plan (IEP)?

3

12. Please describe any additional assistance or resources that, if provided, would enhance the district's ability to improve access to technologies for students with disabilities.

none

13. How many peripheral devices are in use in the district?

| | Number of devices in use |
|-------------------------|--------------------------|
| Document Cameras | 67 |
| Flat Panel Displays | 3 |
| Interactive Projectors | 0 |
| Interactive Whiteboards | 105 |
| Multi-function Printers | 6 |
| Projectors | 114 |
| Scanners | 5 |
| Other Peripherals | 4 |
| Totals: | 304.00 |

14. If a number was provided for "Other Peripherals" please specify the peripheral device(s) and quantities for each.

Smart Response system class sets

15. Does your district have an asset inventory tagging system for district-owned equipment?

Yes

16. Does the district allow students to Bring Your Own Device (BYOD)?

Yes

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Instructional Technology & Infrastructure Inventory

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16a. On an average school day, approximately how many student devices access the district's network?

600

17. Has the school district provided for the loan of instructional computer hardware to students legally attending nonpublic schools pursuant to Education Law, section 754?

Yes

18. What barriers may prevent the district from testing 100% of its grade 3-8 students and NYSAA students on computers by the year 2020?

- Insufficient number of devices meeting testing requirements
- Lack of reliable Internet service
- Insufficient broadband access
- Inadequate staffing levels
- Insufficient testing spaces
- District does not foresee any barriers
- Other

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Software and IT Support

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D. Software and IT Support

1. **What are the operating system(s) in use in the district?**

| | Is this system in use? |
|-----------------------------|------------------------|
| Mac OS Version 9 or earlier | No |
| Mac OS 10 or later | Yes |
| Windows XP | Yes |
| Windows 7.0 | Yes |
| Windows 8.0 or greater | Yes |
| Apple iOS 7 or greater | Yes |
| Chrome OS | Yes |
| Android | Yes |
| Other | No |

2. **Please provide the name of the operating system if the response to question one included "Other."**

(No Response)

3. **What are the web browsers, both available and supported, for use in the district?**

| | Web Browsers available and supported for use |
|--------------------------------|--|
| Internet Explorer 7 | No |
| Internet Explorer 8 | No |
| Internet Explorer 9 or greater | Yes |
| Mozilla Firefox | Yes |
| Google Chrome | Yes |
| Safari (Apple) | Yes |
| Other | No |

4. **Please provide the name of the web browser if the response to question three included "Other."**

(No Response)

5. **Please provide the name of the Learning Management System (LMS) most commonly used in the district. A Learning Management System (LMS) is a software application for the administration, documentation, tracking, reporting, and delivery of online and blended learning courses.**

None used

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Software and IT Support

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6. Please provide the names of the five most commonly used software programs that support classroom instruction in the district.

Google classroom
 NWEA
 Achieve 3000
 Compass Learning
 Read 180 / System 44

7. Please provide the names of the five most frequently used research databases if applicable.

Worldbook
 Gale/Cengage
 ProQuest
 EBSCO

8. Does the district have a Parent Portal?

Yes

8a. Check all that apply to the Parent Portal if the response to question eight is "Yes."

- Attendance
- Homework
- Student Schedules
- Grade Reporting
- Transcripts
- Other

8b. If 'Other' was selected in question eight (a), please specify the other feature(s).

Cafeteria Point of Sale

9. What additional technology-based strategies and tools, besides the Parent Portal, are used to increase parent involvement?

- Learning Management System
- Emergency Broadcast System
- Website
- Facebook
- Twitter
- Other

10. Please list title and Full Time Equivalent (FTE) count (as of survey submission date) of all staff whose primary responsibility is providing technical support. Does not include instructional technology integration FTE time.

| Title | Number of Current FTEs |
|---------------------------------------|------------------------|
| Assistant Superintendent - Technology | 0.25 |
| Labor class technician | 1.00 |
| Senior Technician | 1.00 |
| | 2.25 |

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Curriculum and Instruction

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E. Curriculum and Instruction

1. What are the district's plans to use digital connectivity and technology to improve teaching and learning?

The district plans to distribute mobile devices to all students in grades 5 & 9 each year. 2016-17 will be the second year of this implementation. Students will have use of those devices for four years. The district also plans for each classroom in grades K-4 to have enough devices for small group instruction (5-6) per classroom. The district has enough wireless coverage and bandwidth to support these devices. The district will be increasing capacity for device management on it's firewall and wireless controllers each year until in the 4th year of implementation (2018-19), 800 students will be able to connect from on or off campus. The Smart Schools investment plan includes classroom mobile devices and upgrades to firewall and wireless controllers.

2. Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials, and assessments?

Yes

2a. If "Yes", please provide detail.

Students with disabilities have the same access to individual mobile devices as general education students. IEP mandated assistive technology is provided as needed, including both software and hardware modifications needed for students to access instructional resources.

3. Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?

Yes

3a. If "Yes", please provide detail.

Students with disabilities have the same access to individual mobile devices as general education students. IEP mandated assistive technology is provided as needed, including both software and hardware modifications needed for students to access instructional resources.

4. Does the district's instructional technology plan address the needs of English Language Learners to ensure equitable access to instruction, materials, and assessments?

- Yes
 No

4a. Please provide details. If the district plans to apply for Smart School Bond Act funds for Classroom Learning Technology, the answer to this question must be aligned with the district's Smart Schools Investment Plan (SSIP).

English Language Learners have the same access to individual mobile devices as general education students.

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Professional Development

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F. Professional Development

- 1. Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience, and method of delivery within your summary.**

Teachers new to one to one mobile device implementation receive pre-service training in the summer and are issued the same mobile device as their students. The library media specialist provides in-class coaching as well as in-service workshops on a regular basis to all staff involved in one-to-one mobile device implementation. Additional training is available for those teachers who have students using IEP driven assistive technology. All staff involved in online assessments or curricular programs are provided with professional development in order to implement these programs. On staff development conference days all staff are provided with training on learning management using Google classroom and online gradebook applications.

- 2. Please list title and Full Time Equivalent (FTE) count (as of survey submission date) of all staff whose primary responsibility is delivering technology integration training and support for teachers. Does not include technical support.**

| Title | Number of Current FTEs |
|--------------------------|------------------------|
| Assistant Superintendent | 0.25 |
| Library Media Specialist | 0.67 |
| | 0.92 |

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Technology Investment Plan

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G. Technology Investment Plan

1. **Please list the top five planned instructional technology investments in priority order over the next three years. Infrastructure is considered an instructional technology investment.**

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Technology Investment Plan

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| | Anticipated Item or Service | Estimated Cost | Is Cost One-time, Annual or Both? | Funding Sources May choose more than one source |
|----------------|-----------------------------|----------------|-----------------------------------|---|
| 1 | Laptops | 120,000 | Annual | <input type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input type="checkbox"/> Smart Schools Bond Act <input checked="" type="checkbox"/> Other |
| 2. | Network Cabling | 120,000 | One Time | <input checked="" type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other |
| 3. | Server/Network Software | 80,000 | One Time | <input type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input type="checkbox"/> Smart Schools Bond Act <input checked="" type="checkbox"/> Other |
| 4. | Chromebooks | 63,000 | One Time | <input checked="" type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other |
| 5. | Switches | 61,500 | One Time | <input checked="" type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other |
| Totals: | | 444,500.00 | | |

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Technology Investment Plan

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2. If "Other" was selected in question one, for items purchased or for a funding source, please specify.

Priorities 1 and 3 above are funded through capital reserves for technology replacement. Each year up to \$200,000 may be approved by the voters to support technology spending. In the current year \$120,000 is allocated for one-to-one computing and \$80,000 for firewall replacement as specified in the Smart Schools Investment Plan submitted in 2015-16.

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Status of Technology Initiatives and Community Involvement

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H. Status of Technology Initiatives and Community Connectivity

1. Please check any developments, since your last instructional technology plan, that affect the current status of the technology initiatives.

- Changes in District Enrollment
- Changes in Staffing
- Changes in Funding
- Technology Plan Implementation
- Computer-based Testing
- Catastrophic Event
- Developments in Technology
- Changes in Legislation
- Other
- None

2. In this section, please describe how the district plans to increase student and teacher access to technology, at home and in the community.

The district plans to purchase approximately 220 mobile devices each year so that by 2018-19 all students in grades 5-12 will have a mobile device to use at home and in the community.

3. Please check all locations where Internet service is available to students within the school district's geographical boundaries.

- Home
- Community
- None

- 3a. Please identify categories of available Internet locations within the community.

Most students have home internet access. Wi-Fi is currently available in the public library.

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Instructional Technology Plan Implementation

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I. Instructional Technology Plan Implementation

- 1. Please provide the timeline and major milestones for the implementation of the technology plan as well as the action plan to integrate technology into curriculum and instruction to improve student learning.**

2016-17 provide additional firewall and 220 mobile devices for students in grades 5-9. Provide approximately 100 chromebooks for student sin K-3 and non-public school students.

2017-18 provide additional wireless controller, three building main switches and 220 mobile devices for students in grades 5-9. Begin to replace whiteboards and projectors with large LCD touch screen displays.

2018-19 provide 220 mobile devices for students in grades 5-9 and continue replacing interactive whiteboards and projectors with large LCD touch screen displays.

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Monitoring and Evaluation

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J. Monitoring and Evaluation

- Please describe the proposed strategies that the district will use to evaluate, at least twice a year, whether the district’s instructional technology plan is 1) meeting the vision and goals as outlined in the plan and 2) making a positive impact on teaching and learning in the district.**

The district Digital Age Skills committee and Professional Development committee meet multiple times each year. It is the responsibility of the Digital Age Skills committee to evaluate implementation of instructional technologies. The committee evaluates instructional practice and student outcomes against emerging technologies in order to modify planned hardware and software acquisition. It is the responsibility of the Professional Development committee to evaluate staff competencies with instructional technology, to conduct needs assessment, and to plan professional development for teachers that includes instructional strategies for the successful integration of technology in teaching and learning.

- Please fill in all information for the policies listed below.**

| | URL | Year Policy Adopted |
|---|---|---------------------|
| Acceptable Use Policy -- AUP | http://eastrockawayschools.org/district/acceptable_use_policy | 2012 |
| Internet Safety/Cyberbullying* | http://eastrockaway.syntaxny.com/Assets/4000_Series/45261_45261-R_Internet_Safety_and_Regulation.pdf?v=995 | 2012 |
| Parents' Bill of Rights for Data Privacy and Security | http://eastrockaway.syntaxny.com/Assets/Parent_Student_Links/050516Parents_Bill_of_Rights.pdf?v=776 | 2014 |

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Survey Feedback

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K. Survey Feedback

Thank you for submitting your district's instructional technology plan (ITP) survey via the online collection tool. We appreciate the time and effort you have spent completing the ITP survey. Please answer the following questions to assist us in making ongoing improvements to the online survey tool.

1. Was the survey clear and easy to use

Yes

2. Was the guidance document helpful?

No

2a. If "No", please explain.

Not enough clarifying details or information.

3. What question(s) would you like to add to the survey? Why?

(No Response)

4. What question(s) would you omit from the survey? Why?

D 6 & 7 Software programs are increasingly being replaced by web-based tools and resources, too numerous and individualized to mention.

5. Other comments.

(No Response)

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Appendices

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Appendices

1. **Upload additional documentation to support your submission**

(No Response)