## Budget

### U.S.A.S. Fund #:
Nordonia Hills City (050047) - Summit County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (123)

### Summary

<table>
<thead>
<tr>
<th>Purpose Code</th>
<th>Object Code</th>
<th>Salaries 100</th>
<th>Retirement Fringe Benefits 200</th>
<th>Purchased Services 400</th>
<th>Supplies 500</th>
<th>Capital Outlay 600</th>
<th>Other 800</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instruction</td>
<td>150,000.00</td>
<td>0.00</td>
<td>996,000.00</td>
<td>0.00</td>
<td>1,081,000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>2,207,000.00</td>
</tr>
<tr>
<td>Support Services</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Governance/Admin</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Prof Development</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Family/Community</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Safety</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Facilities</td>
<td>0.00</td>
<td>0.00</td>
<td>956,848.00</td>
<td>0.00</td>
<td>480,000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>1,436,848.00</td>
</tr>
<tr>
<td>Transportation</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total</td>
<td>150,000.00</td>
<td>0.00</td>
<td>1,952,848.00</td>
<td>0.00</td>
<td>1,541,000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>3,643,848.00</td>
</tr>
</tbody>
</table>

### Adjusted Allocation: 0.00

### Remaining: -3,643,848.00
**Application**

Nordonia Hills City (050047) - Summit County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (123)

Applicants shall respond to the prompts or questions in the areas listed below in a narrative form.

### A) APPLICANT INFORMATION - General Information, Experience and Capacity

1. Project Title: Expanding the Digital Frontier

2. Executive summary: Provide an executive summary of your project proposal and which goal(s) in question 9 you seek to achieve. Please limit your responses to no more than three sentences.

   **Project Title:**

3. Leaapplicant primary contact: - Provide the following information:

   **First Name, last Name of contact for lead applicant:** Todd, Stuart

4. Organizational name of lead applicant: Nordonia Hills City Schools

5. Unique Identifier (RN/Fed Tax ID): 050047

6. Address of lead applicant: 9370 Olde Eight Road Northfield Ohio 44067

7. Phone Number of lead applicant: 330.467.0580

8. Email Address of lead applicant: todd.stuart@nordoniaschools.org

9. 3. Total Students Impacted:

10. 4. Lead applicant primary contact: - Provide the following information:

    **First Name, last Name of contact for secondary applicant:** Kyle Livengood

11. **Organizational name of secondary applicant:** Nordonia Hills City Schools

12. **Unique Identifier (RN/Fed Tax ID):** 050047

13. **Address of secondary applicant:** 9370 Olde Eight Road, Northfield, Ohio 44067

14. **Phone number of secondary applicant:** 330.467.0580

15. **Email address of secondary applicant:** kyle.livengood@nordoniaschools.org

6. List all other participating entities by name: Provide the following information for each additional participating entity, if applicable: Mention First Name, Last Name, Organizational Name, Unique Identifier (RN/Fed Tax ID), Address, Phone Number, Email Address of Contact for All Secondary Applicants in the box below.

7. Partnership and consortia agreements and letters of support:

   **Click on the link below to upload necessary documents.**

   * Letters of support are for districts in academic or fiscal distress only. If school or district is in academic or fiscal distress and has a commission assigned, please include a resolution from the commission in support of the project.

8. Please provide a brief description of the team or individuals responsible for the implementation of this project including relevant experience in other innovative projects. You should also include descriptions and experiences of partnering entities.

   **Dr. Joe Clark:** Current Superintendent of Nordonia Hills City Schools, Summit County, CEO Kent Digital Academy, Founder of Digital Knights Program, Nordonia Hills City Schools, Presented at the 2013 Society for Technology in Education Conference, Co-Moderator of International Twitter Chat, Todd Stuart: Master’s Degree Program in Middle School Administration, Bachelor of Science in Middle School Education, 14 years of administrative experience, three years of teaching experience, Currently Director of Curriculum, Instruction and Professional Development, Developed a One to One pilot project, Participated in numerous One to One initiative workshops and district programing Kyle Livengood: Bachelors in Information Systems Management and E-Business Technologies, 7 years of work experience in educational technology, Currently Managing Director of Technology at Nordonia Hills City Schools, Managed replacement of 500 student devices during the summer of 2009, Managed replacement of 250 staff devices during the summer of 2013, Participated in Chromebook workshops for the implementation of One to One initiatives

9. Which of the stated Straight A Fund goals does the proposal aim to achieve? - (Check all that apply)

   - Student achievement
   - Spending reductions in the five-year fiscal forecast
   - Utilization of a greater share of resources in the classroom

10. Which of the following best describes the proposed project? - (Select one:)

    - New - never before implemented
    - Existing and researched-based - never implemented in your district or community school but proven successful in other educational environments
    - Mixed Concept - incorporates new and existing elements
    - Enhancing/Scale Up - elevating or expanding an effective program that is already implemented in your district, school, or consortia partnership

11. Describe the innovative project:

   Our students live in a digital world, altered by ever-changing technology. Whether they are described as “Digital Natives” or “21st Century Learners,” we educators are well aware that students today are very different from past years. This generation of 21st Century Learners can absorb a great deal of information at super-charged speeds whether it is transmitted via a cell phone, television, the Internet or MP3 player. Digital students are masters of varying types of technology. These students are always connected with their peers and the world through technology. The project will provide next generation networking infrastructure and backbone, using CAT6e network cabling and 10G Ethernet switches. Nordonia Hills City Schools will be providing a One to One initiative at no cost to the students. It is our vision to incorporate 21st Century Skills into our classrooms. A classroom environment that encourages collaboration and online learning will better engage our students, preparing them for the adult world. For example, we believe if a student wants to learn to play guitar today, he doesn’t need to take formal lessons. Rather we want to create an environment that allows the student to teach himself/herself through research and technology (i.e. YouTube). In addition, with this technology we see students collaborating with doctors, engineers, lawyers, politicians and students from around the world. We truly believe that introducing students to a cutting edge environment, preparing students for college and career readiness. Utilizing the devices, the district will create a “zero period” that will allow all students to experience a 24/7 learning environment through online classes and collaboration. Expanding the Digital Frontier will provide opportunities for more enrichment, intervention, online module technology classes and performance based learning than ever before. This project will work with a platform allowing students to select online courses for enrichment and intervention opportunities. Initially, we will implement vendor sponsored online courses; however, starting in the 2015-2016 school year, we will start to implement our own course work through partnerships with universities and with our own teaching staff. The transition to in-house courses will provide sustainability and cost reductions to the district. In addition, future resources such as textbooks will be utilized through the Chromebooks. Moreover, as part of the project, we will investigate extending the school year for students through online options. We will also want to work through the logistics of increasing the rigor of graduation requirements as we add blended learning requirements later in the project. Finally, assignments and projects will be shared through Google Drive or additional platforms. The one-to-one environment will be more fascinating and engaging to students. When students are engaged, they learn.
12. Describe how it will meet the goal(s) selected above. If school district receives school improvement funds/support, include a brief explanation of how this project will advance the improvement plan. 

Student achievement: Expanding the Digital Frontier will truly be developing a cutting edge environment, preparing students for college and career readiness. Our students will have access to learning 24/7, as well as an environment that promotes student learning. High school students will need access to meet more rigorous graduation requirements, including the possibility of earning blended learning requirements. It is our goal that the project will increase student achievement in the primary grades as well. We truly believe that our project will increase student performance on the 3rd grade state reading assessment (3rd Grade Reading Guarantee). We believe the project will lower the number of "not on track" students as part of the Third Grade Reading Guarantee. Our project is backed by recent research that shows an increase in student achievement and success with the implementation of one-to-one computing. In May, 2012, the Center for the Advanced Study of Technology Leadership in Education (CASTLE) published evidence of student achievement. Of the core content areas, some of the most substantial academic achievement results of one-to-one programs have been seen with writing skills, according to the authors from CASTLE. Additional studies observed gains in both writing and literacy skills. One of the studies analyzed is what sometimes know as the "fourth-grade slump," which occurs as students transition from learning to reading to "rethrowing to learn." The study found that students in a laptop program outperformed their peers in the control group in literacy response and analysis as well as writing strategies. According to CASTLE, additional studies predicted higher state achievement scores. A student's advanced skill with technology and increased access to technology were positive predictors of his/her reading and math scores. Finally, CASTLE found that one-to-one computing led to significant increases in students' GPAs compared to those without one-to-one computing. Spending reductions in the five-year fiscal forecast of the Digital Frontier project reduce the five-year forecast by eliminating curriculum costs such as future textbook adoptions. Approximate savings each year of eliminating the purchase of textbooks will be $250,000.00-$500,000.00. Additionally, the project will reduce monies in technology requirements for future Next Generation of Assessments (devices, infrastructure, and labor). Specifically, the district will save monies by not spending dollars on new switches, cabling, access points and labor. Savings will be approximately $200,000.00 over five years for equipment and approximately a total of $1,000,000.00 for upgrading the wiring. Next, the district will see significant cost savings in print, paper and print management. After year three, the project will be self-sustaining, and we will no longer be incurring costs for online courses. The district will save substantial monies annually by eliminating the need to purchase future devices for to meet the student demand. The district will save approximately $75,000.00 annually for 17 years (totaling $1,275,000.00) by not having the demand of purchasing future devices. Finally, a one-to-one computing school is attractive to incoming students and acts as a marketing strategy. Utilization of a greater share of resources in the classroom: As part of the Expanding the Digital Frontier project, students will be actively engaged in learning Mechanics, Usage, and Grammar through "EDU2.0" and catching up on the latest current events while focusing on author's purpose, theme and supporting detail. Expanding the Digital Frontier is a next-generation online tool empowering students to engage with digital media in a fun and safe environment. One of the main reasons for a one-to-one computing environment is to provide the platform for students to create and distribute materials.

C) SUSTAINABILITY - Planning for ongoing funding of the project, cost breakdown

13. Financial Documentation - All applicants must enter or upload the following supporting information. Responses should refer to specific information in the financial documents when applicable:

a. Enter a project budget

b. Upload the Straight A Financial Impact Template forecasting the expected changes to the five-year forecast resulting from implementation of this project. If applying as a consortia or partnership, please include the five-year forecasts of each school district, community school or STEM school member for review

c. If subsection (b) is not applicable, please explain why. In how to add the project will demonstrate sustainability and impact.

14. What is the total cost for implementing the innovative project?

3,643,848.00 * Total project cost

* Narrative explanation/rationale: Provide details on the cost of items included in the budget (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

15. What new/recurring costs of your innovative project will continue once the grant has expired? If there are no new/recurring costs, please explain why.

39,000.00 * Specific amount of new/recurring cost (annual cost after project is implemented)

* Narrative explanation/rationale: Provide details on the anticipated savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

16. Are there expected savings that may result from the implementation of the innovative project?

$25,000.00 * Specific amount of expected savings (annual)

* Narrative explanation/rationale: Provide details on the anticipated savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

17. Provide a brief explanation of how the project is self-sustaining. If there are ongoing costs associated with the project after the term of the grant, this explanation should provide details on the cost reductions that will be made at that equal amount to the new/recurring costs detailed above. If there are no new/recurring costs, explain in detail how this project will sustain itself beyond the life of the grant.

Recuring or new costs of $39,000.00 is evenly outweighed by the expected annual savings of $250,000.00. As explained in question #16, the project will become self-sustaining, and we will no longer be incurring costs for online courses.

D) IMPLEMENTATION - Timeline, communication and contingency planning

18. Fill in the appropriate dates and an explanation of the timeline for the successful implementation of this project. In each explanation, be sure to briefly describe the largest barriers that could derail your concept or implementation and your plan to proactively mitigate such barriers. In addition, the narrative should list the stakeholders that will be engaged during that stage of the project and describe the communication that occurred as the application was developed.

Describe the ongoing communication plan with the stakeholders as the project is implemented. (Stakeholders can include parents, community leaders, foundation support and businesses, as well as educational personnel in the affected entities.)

* Proposal Timeline Dates

Plan (MM/DD/YYYY): 12/17/2013-03/1/2014

* Narrative explanation

During the planning stage we will prepare for purchasing of equipment (writing requisitions, purchase orders); select vendors for online platform and for school courses; complete wireless survey with staff, walk through buildings to review infrastructure; organize additional labor for infrastructure upgrades; work with ITC; establish new policy and guidelines for Acceptable Use (create student plan agreement); create a roll out plan for student devices; establish new guidelines for Digital Academy participants for future online course development; create and implement a communication plan to inform students, staff, parents and community of the project; and provide to our school board a presentation of the complete project. Possible barriers to be proactive about are scheduling conflicts for professional development, equipment back orders, and concerns with wiring/infrastructure.

Implement (MM/DD/YYYY): 02/1/2014-06/1/2016

* Narrative explanation

During the implementation stage, we will check in equipment and prepare for distribution to students and teachers; ensure the infrastructure for the new technology; provide professional development to staff; solidify online classroom platform, selecting and developing partnerships with universities and Digital Academy/staff for future course development; develop a summative evaluation; and implement our communication (including parent meetings).
20. Describe the rationale, research or past success that supports the innovative project and its impact on student achievement, spending reduction in the five-year school district, and engage overall in the district so that 95% are fully engaged daily in classrooms.

21. Is this project able to be replicated in other districts in Ohio? Yes

22. If so, how?

The project will be replicated based on the funding available. It will be important to develop measurable benchmarks for each action step in the proposed timeline. It will be important to keep good documentation of the progress that we follow. We are interested to share and collaborate with other districts our successes and barriers that we will overcome. As part of our outreach and advocacy, we will invite districts and we will establish a presentation including all of the integral parts of our project (budgets, research, plans, policy, procedures, etc) to the districts we are hosting. We will be creating a "training center" in our high school that will include two rooms. One room will be a classroom. The room next door, separated by a block wall and one way viewing glass, will be an observation/training room. This room will be utilized by outside school districts, parents, community/business leaders, and our own staff to learn how to implement a one to one classroom. This train the trainer approach can have an enormous impact on students outside of our school district. We feel through outreach and advocacy that it is important to reach as many students as possible, even outside of our own school district. Having this type of facility set up, can provide that opportunity for sharing and learning. As part of our communication plan, we will use various social media tools to communicate the progress of our project, such as Twitter. Finally, the district will participate in statewide conferences (such as E-Tech, PST, OSBA, etc) and share the details of our project.

23. Describe the substantial value and lasting impact that the project hopes to achieve.

The following are specific benchmarks that we will hope to achieve:

- Flipped Classrooms
- One to one computing showed significant increases in students' GPAs compared to those without one-to-one computing. In addition to the research shared above about examining student achievement, researchers have reviewed other areas that have been impacted by one-to-one computing. These impacts fall into a number of various categories, including student engagement, attendance, behavior and motivation as well as teacher practices.

24. What are the specific benchmarks related to the fund goals identified in question 9 that the project aims to achieve in five years? Include any other anticipated outcomes of the project that you hope to achieve that may not be easily benchmarked.

The following are specific benchmarks that we will hope to achieve:

- Increase student transform education as students will be more engaged, achieve higher on rational, state and local assessment, collaborate more with staff and students from across the world, increase technology skills, and overall prepare students to be college and career ready
- Reduced costs to the districts for years to come
- Provide an extended school day/school year with the zero period online/blended learning credit and meet Third Grade Reading Guarantee requirements

25. Describe the plan to evaluate the impact of the concept, strategy or approaches used.

* Include the method by which progress toward short- and long-term objectives will be measured. (This section should include the types of data to be collected, the formative outputs and outcomes and the systems in place to track the program's progress.)

* Include the method, process and/or procedure by which the program will modify or change the program plan if measured progress is insufficient to meet program objectives.

26. By virtue of applying for the Straight A Fund, all applicants agree to participate in the overall evaluation of the Straight A Fund for the duration of the evaluation timeframe. The Governing Board of the Straight A Fund reserves the right to conduct evaluation of the plan and request additional information in the form of data, surveys, interviews, focus groups, and other related data to the legislature, governor, and other interested parties for an overall evaluation of the Straight A Fund.

PROGRAM ASSURANCES: I agree, on behalf of this applicant agency and/or all identified partners to abide by all assurances outlined in the Assurance section of the CCIP. In the box below, enter "I Accept" and indicate your name, title, agency/organization and today's date.

I Accept

Todd Stuart, Director of Curriculum, Instruction and Professional Development
Nortonia Hills City Schools
October 23, 2013