IDAHO TECHNOLOGY PILOT PROJECT

2013 Competitive Grant Application

ADMINISTERED BY THE

IDAHO STATE DEPARTMENT OF EDUCATION

Idaho Technology Pilot Project
Grant Application Assurance Sheet

Project Title: **Go One–Go On**
Amount of Request: **$427,872.40**
District Name: Middleton School District
District Number: #134
School Name: Middleton High School
School Number: 401
Project Duration: Begin in August 2013 / follow District Technology Plan for 3-5 years

By signing below, I certify that we have submitted an Internet Acceptable Use Policy to the State Department of Education, and have attached to the submitted documents as reference. I also certify that we have submitted a Technology Plan that meets the minimum requirements, and have attached to the submitted documents as reference.

Superintendent Name (print) Dr. Richard Bauscher,	E-mail rbauscher@msd134.org	Telephone 585-3027
Signature		
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Signature		
Project Director Name – *if different than District Technology Coordinator* (print)	E-mail	Telephone
Signature		

ABSTRACT

Nestled in rural Canyon County, Middleton High School (MHS) currently serves 959 students, with a socio-economic status that qualifies 50% for free and reduced lunch. The District Administration and the Board of Trustees are committed to ensuring a 21st century classroom experience for all students.

MHS is developing a Next Generation Learning Environment (NGLE) which encompasses the integration of social media, peer-to-peer interaction, non-linear learning, and emerging technologies (Advanced Distributed Learning, 2013). The NGLE fosters the four components of the 21st century learner: communication, critical thinking, collaboration, and creativity (Partnership for 21st Century Skills).

MHS has gained statewide recognition from school districts, Go On Idaho and the Idaho Department of Labor by implementing a mentorship program as part of our daily curriculum for all students. This program maximizes the high school's current technology resources. To promote and progress our cultural change, we are seeking (the next phase) to implement a one-to-one laptop program called **Go One-Go On** which will fuse together our two visions of a fully integrated NGLE and a culture that emphasizes college and career readiness.

This program will elevate MHS by: (1) expanding the Career Information System (CIS) implementation, (2) allowing the maximized use of our collaborative learning management system (LMS), My Big Campus (MBC); (3) promoting communication, collaboration, cloud storage, and improved efficiencies through the integration of Google Apps for Education (GAFE), a free resource; and (4) fostering critical thinking, creativity, and a positive digital footprint through the creation of a four-year website portfolio articulating the student's academic growth. The student's portfolio will culminate as a senior project which will demonstrate mastery of the Idaho Core Standards, ISTE NETS Student Standards, and the goals of the mentorship program and empower students for success in a global and connected future. This individualized assessment embodies a model adaptable for other high schools within our District and the State of Idaho.

Full technology integration reaches beyond our campus, providing students a mobile device. MHS will continue to strengthen our community partnerships which include WiFi hotspot developments. This will provide our community online educational opportunities, and portal access to MBC and Skyward (the district's student information system), providing students and parents continued access for monitoring student achievement, and communicating with teachers.

To ensure this project is scalable, sustainable, and replicable, MHS will develop a scope and sequence timeline, materials, reflections, and professional development (PD) resources for other schools and districts to utilize as an implementation guide in their efforts to continue to advance student achievement for the 21st century learner.

EDUCATIONAL NEEDS AND GOALS

In 2010-2011, MHS recognized the need for improvement and increased academic rigor in order to meet Annual Yearly Progress (AYP) standards. AYP standards had not been met since 2007, keeping MHS on the Idaho State Department of Education's (SDE) needs improvement list (Year 4). The school improvement goals became the catalyst which helped MHS make AYP status in 2011-2012. MHS then recognized that a monumental shift in the culture of our school was necessary and implemented a mentorship program with technology integration to meet the educational needs of our students.

The mentorship program was launched with goals to increase college and career planning, monitor academic development, and promote civic engagement. Following its implementation (2012-2013), MHS had a 2% increase in attendance during first semester finals, a graduation rate increase by 6.8%, and cumulative GPA increases across all grade levels by 0.11%. In addition, there was a 65% increase in Skyward student log-ins and a 50% increase in parent log-ins. A cultural revolution has transpired through our mentorship program, it has increased student achievement and has prompted further examination of educating in the 21st century. In addition, our plan supports the Idaho Board of Education's goal that 60% of Idahoans ages 25-34 will have a degree or certificate by 2020. Our goals align with key strategies outlined in that plan (Complete College of Idaho). Full technology integration will vehiculate our revolution's success.

The need for MHS to implement the **Go One-Go On** program is predicated on the goals and successes of current practices. Through the advocacy of the Go On Idaho program, we provided all students with a mentor. Mentors met with students four times per week; accompanied with computers once per week. During this lab time, students explored college and career planning through the Career Information Systems (CIS). Some mentorship successes include: leading the nation with 28,402 CIS logins, 855 standardized practice tests (ASVAB, SAT, ACT, PSAT), and 677 college inquiries during the course of the 2012-2013 school year. Future goals include pursuing additional advanced opportunities and career planning with the support of Go On Idaho.

MHS has taken key steps in developing a NGLE. In the Spring 2012, we piloted a collaborative learning management system (LMS) called MBC. This Web 2.0 social platform allows students to safely collaborate and communicate with instructors and peers. The pilot's success led to the school-wide implementation of MBC in the Fall 2012. During the 2012-2013 school year, MHS piloted one-to-one and GAFE in a dual credit Fundamentals of Communication course, which demonstrated huge increases in student engagement. Comparing data from 2011-2012 and 2012-2013 school years, the implementations show substantial growth in the NGLE and student achievement. There was a **9% increase** of students passing the course with a *B* or higher, while students receiving a *D* or an *F* **decreased by 4%**. Dual credit enrollment increased in this program by 5%, encouraging additional advanced learning opportunities at MHS.

The GAFE Pilot success during 2012-2013 prompted a district-wide adoption beginning Fall 2013. Prior to the pilot, only 18% of students had been exposed to

Google Docs. As a result of the pilot, 90% of students assured us that they will continue to use Google Docs beyond the course and 78% preferred to use Google Docs over other word processing programs due to its collaborative and cloud-based nature. GAFE also improves efficiency through the use of paperless lesson planning, activities, assessments, and EOCs.

Full technology integration will provide the equitable platform our students need to go beyond accessing digital content to becoming innovators of content. MHS will require students to create a four-year website portfolio that will culminate during the student's senior year as part of their senior project. In addition, the **Go One-Go On** program will provide the capability to reconfigure computer labs into STEM labs with specialized software.

The full technology integration vision has been designated as an integral component to the success of educating 21st century learners at MHS. In July 2012, the District hired a full-time certified Technology Integration Specialist to enhance curriculum, instruction and student achievement through integrating technologies and providing professional development. All of MHS faculty was provided professional development in MBC and an opportunity for continuing education credits through a Teacher TechUp course. The faculty buy-in with this process continues to be evident with 100% of staff who who responded to the survey communicating the course was constructive and of value, and 100% stating the course increased their interest in technology integration for their classrooms. Furthermore, utilizing MBC as a collaborative learning platform for professional development, teachers created over 200 student collaborative groups. Teachers began creating lessons and curriculum materials for the mentorship program utilizing GAFE. In 2013-2014 MHS will require all staff members to set a technology integration professional development goal aligned to the ISTE NETS Teacher Standards. MHS's professional development plans remain focused on technology integration and will incorporate the use of Schoolnet to create lesson plans, access digital content, create assessments, and make data-driven decisions.

The dialogue at the heart of this movement began with and continues to revolve around cultural change, evident in the high school making prodigious growth and expecting excellence as the vision for the future. MHS recognizes full technology integration as the vehicle that drives us forward and shifts the way we educate 21st century learners. Middleton High School's infrastructure will ensure that this SDE pilot is successful. In addition, we are prepared for this pilot to propel our district forward, using a sustainable and scalable model. We are at the starting line with our foot on the accelerator, revving at full throttle, waiting for the SDE's green light. We are not busy in the shop struggling to decide what engine to put into the car or throwing on tires. We are primed and ready to **Go One-Go On**!

SCOPE AND SEQUENCE

Planning, Preparation, Involvement and Evaluation

The **Go One-Go On** program will propel MHS to the next level, by promoting synergy, communication, collaboration, cloud storage, and improved efficiencies. In planning and preparing for full technology integration the District hired a full-time Technology Integration Specialist in 2011-2012 and another one starting this Fall. Technology professional development (PD) focused on increasing teacher technology literacy and increasing student engagement and achievement, which provided a solid foundation for **Go One-Go On**. Recognizing the program's success is comprised of quality PD and instructional support for teachers, the district recently hired a second Technology Integration Specialist. Teachers will be required to set technology integration goals which will be rooted in research-based models like TPACK, SAMR, Technology Integration Matrix, Technology Integration Planning Model, and ISTE NETS Teacher Standards.

The District will sustain program momentum by dovetailing funds with internal resources. This will assure the success of **Go One-Go On** as our full integration model: the **IT Department** (eight specialized team members) responsible for ensuring technology functions properly; two district-wide **Technology Integration Specialists** responsible for technology integration, instructional coaching and PD; a district-wide **Technology Integration Advisory Team** (TIAT, includes three MHS advisors) who meet monthly and work closely with the Technology Integration Specialists to assist with integration; a **High School Administration and Leadership Team** (four teachers) who meet regularly to assess the goals of MHS's strategic plan; **Mentorship Lead Team** (eight teachers) who meet monthly for evaluating and implementing digital citizenship and mentorship program lessons; **Student-run help desk** comprised of student tech interns who will assist with general technology troubleshooting.

The **Go One-Go On** program evaluation will assess several indicators in correlation with the ISTE Essential Conditions and NETS Standards. Along with the District's Technology Plan, MHS has a Technology Integration Action Plan that is aligned with the aforementioned to ascertain successful technology integration. The integration of GAFE will be measured through improved academic achievement rates. We will maximize the use of MBC and Skyward by tracking system usage and by monitoring teachers' transition to a paperless environment. Finally, the **Go One-Go On** program will provide short and long term measurable data analyzed through successful completion of senior portfolios, National Student Clearinghouse post-secondary tracking, improved academic achievement of all students in correlation with the Idaho Core Standards, and teacher utilization of portfolios as a 21st century learning assessment.

Implementation/Timeline

Date	Description
Spring 2012	• My Big Campus Pilot
Fall 2012	• Hired a full-time certified Technology Integration Specialist • School-wide implementation of My Big Campus
2012-2013 School Year	• One-to-One and GAFE Pilot • Created Technology Integration Advisory Team (TIAT) • Director of Instructional Technology and Technology Integration Specialist selected to be on the i3C Steering Committee
Spring 2013	• Hired second full-time certified Technology Integration Specialist • District-wide adoption of the ISTE NETS Standards
Summer 2013	• Adopt revised technology policies • Adopt Common Sense Media Digital Citizenship Curriculum • Adopt website portfolio guidelines and template for students • Develop professional development opportunities for staff
Fall 2013	Teachers • District-wide deployment of Google Apps for Education • Teachers develop technology integration PD goals • Teachers receive laptops and continued integration PD • Teachers develop lessons plans aligned to Idaho Core that students will use as learning artifacts in their portfolios. • Teachers trained on Schoolnet integration Students • District-wide deployment of Google Apps for Education • Create student-run help desk Parents • Provide overview of the **Go One-Go On** program
Spring 2014	Teachers • Continued technology integration PD • Leadership Team assesses **Go One-Go On** goals/objectives Students • Students receive laptops and PD to facilitate policies, procedures, and continued digital citizenship curriculum • Students begin creating website portfolios Parents • Parent **Go One-Go On** orientation
2014-2015	Continued implementation of **Go One-Go On**

SUSTAINABILITY AND SCALABILITY

The **Go One-Go On** vision's sustainability and scalability is attainable as the district has assured the advancement of technology integration. The physical and personnel infrastructure have been allocated for an initiative such as this one. Two full-time Technology Integration Specialists will provide necessary PD. The District has strengthened their IT Department to eight technicians from three in 2009. The IT Department's "team" approach and the Student IT Internship program will substantiate an integral role in our one-to-one service model, facilitating from the MHS IT workroom (a one stop shop) designed to immediately troubleshoot issues. Additionally, the District created a TIAT team as advocates of the District Technology Plan, MHS Integration Action Plan, and the **Go One-Go On** vision.

In June 2012, Middleton High School applied and was selected for the first third of Students Come First Mobile Computing Devices, due to our facility being equipped with a 10 GB backbone, 100 MB Internet pipe, and a commercial WiFi infrastructure that has prepared us to fulfill a one-to-one program. Once **Go One-Go On** is implemented, high school classroom computers will be reallocated District-wide providing increased student availability to technology and to bolster sustainability at each of our six schools. Broader technology distribution will precipitate a progressive community outreach plan to encompass, WiFi hotspots, online educational opportunities and portal access to district programs.

The budget narrative outlines the device and costs associated to implement **Go One-Go On**. The District and MHS Administration have formulated a decision to adopt a *Laptop Care, Maintenance and Support agreement* for students/parents to purchase, rather than fund additional protective warranties for each device. Those who opt-out of this agreement will be liable for any loss or damage to the device. The funds resulting from this agreement will be appropriated for device maintenance and replacement. This agreement will allow MHS to sustain the **Go One-Go On** vision regardless of any breakage, loss, or common technical issues. Additionally, MHS will create a "No Device-No Dilemma" program with on-site laptops available to overcome forgotten laptops or uncharged batteries during the school day. MSD has proven with effective processes in place, the cost of ownership for its technology is very low and is highly sustainable. MSD operates with 10+ year old computers which continue to function as a student resource. The **Go One-Go On** cost is approximately $404 per student for year 1 and $404 for year 2. The estimated cost beyond the device is $40 and $4 per student calculated respectively from the PD support, technical support, and software infrastructure MSD has in place.

Go One-Go On	Year 1 Cost per Student	Quantity	Price per Unit	Total
	2013-2014 Projected Student Devices	1,008	$406.66	$409,913.28
			Total Cost	**$ 409,913.28**
			Total Cost / Year Student Enrollment	**$ 404**

Go One-Go On	Year 2 Cost per Student	Quantity	Price per Unit	Total
	2014-2015 Projected Student Devices	7	$406.66	$2,846.62
			Total Cost	$ 2,847
			Total Cost / Year Student Enrollment	$ 407

The MSD Technology Plan aligns with the MSD Strategic Plan which establishes the baseline for technology improvement goals district-wide:

- Cultivating classroom instructional practice through the utilization of data and
- Consistency and alignment of the process and tools among schools in the District.

The **Go One-Go On** project aligns with the Technology Plan's five main goals:

1. Provide a safe, flexible, and effective learning environment for all students;
2. Engage students in meaningful curricular content through the purposeful and effective use of technology;
3. Equitable Access;
4. Funding;
5. Evaluations

Policies and procedures are enforced to provide our students a safe, flexible, and effective learning environment. The laptops will provide the vehicle for equitable access and help engage each student in meaningful curricular content.

Idaho schools can integrate a collaborative LMS, GAFE or use portfolio assessments, making scalability feasible. MHS will develop a scope and sequence, materials, reflections, and PD resources for other Idaho districts to utilize as an implementation guide. Another way in which a one-to-one program can be scalable across Idaho is through the integration of Schoolnet. This program will ensure equitable access for teachers, students, and parents to access a student's digital backpack. With the use of Schoolnet, students can access digital content and complete online or paperless assessments. Utilization of such assessment features will allow students and teachers real-time results. MSD will be able to share successful one-to-one lessons and assessments with teachers state-wide via Schoolnet. With a similar vision, existing infrastructure, and steadfast culture a **Go One-Go On** program can be attainable by any school.

BUDGET NARRATIVE

Middleton High School recognizes this project's comprehensive undertaking and cost; however, MHS students have progressed immensely with partial technology integration as described in the Educational Needs and Goals. Our visionary approach with students' progress has emphasized the need desired for a full integration model of one-to-one devices to revolutionize educational growth in college and career preparation.

Middleton High School, with the support of our Superintendent and Board of Directors, is asking for **$427,872.40**. MHS understands this grant is a one time funding source; therefore, in order for MHS to fulfill our **Go One-Go On** pilot grant, we need to ensure that new students (based off enrollment projections) are included and budgeted for each one.

Budget Details

A. Projected Student Devices by Year .....Total: $412,759.90

- **2013-2014**: Projecting 1,008 students for the start of the school year (1,008 students x $406.66/device = $409,913.28) and 7 (0.6%) additional students in **2014-2015** (7 students x $406.66/device = $2,846.62). Senior laptops will rotate to incoming freshman on year two of this pilot project.

B. Professional Development .....Total: $15,112.50

- Teachers will be provided three in-house professional development days. Funding for this was calculated by using the cost of a substitute teacher (3 days x 65 = 195 teacher days x $77.50/substitute/day = $15,112.50).

BUDGET SPREADSHEET

Go One-Go On Student Laptops Only

Item	Expenditure Date	Quantity	Unit Price	Total
A. Projected Student Devices by Year				
2013-2014 Projected Staff Devices *	Oct 2013	1,008	$ 406.66	$ 409,913.28
2014-2015 Projected Staff Devices *	Oct 2013	7	$ 406.66	$ 2,846.62
B. Professional Development				
Go One-Go On Staff PD (days)	Aug 2013 - June 2015	195	$ 77.50	$ 15,112.50
			Total needed for Go One-Go On Project	**$ 427,872.40**
Student Device Specifications *				
Lenovo ThinkPad X131e, AMD E2-1800 processor, 8 GB of memory, 320 GB hard drive, and Windows 7 Pro				

BUDGET (SUPPLEMENTAL) NARRATIVE

A. Projected Staff Devices by Year .....Total: $26,839.56

- **2013-2014**: We anticipate to purchase 65 staff devices (65 staff x $406.66 = $26,432.90) and one additional in **2014-2015** (1 staff x $406.66 = $406.66)

B. Additional Projected Devices/Batteries .....Total: $28,833

- 2013-2015: Student Device On-Hand/Replacements: at any point a student's laptop can go down. That can result in a loss of day's schoolwork. The 50 (50 devices x $406.66/device = $20,333) are based off 5% of the projected total students over two years.
- 2013-2015: Student device Battery Hot Spares: approximately 10% of the student body for both years. Hot spare batteries are essential for student laptops being available throughout the course of the school day (100 hot spare batteries x $85/battery = $8,500).

C. Software/Web 2.0 .....Total: $8,616

- GAFE, Microsoft Essentials, and MBC are no additional cost to the District.
- 2013-2014: Based on calculations of staff and students 1,073 Lightspeed Content Filtering licenses will be needed (1,073 licenses x $4/license/year = $4,292)
- 2014-2015: Due to a projected increase in enrollment and staff additions 1,081 licenses will be needed (1,081 licenses x $4/license/year = $4,324)

Budget (Supplemental) Spreadsheet

Go One-Go On Supplemental

Item	Expenditure Date	Quantity	Unit Price	Total
A. Projected Staff Devices by Year *				
2013-2014 Projected Staff Devices *	July 2013	65	$ 406.66	$ 26,432.90
2014-2015 Projected Staff Devices	July 2013	1	$ 406.66	$ 406.66
B. Additional Projected Devices/Batteries				
2013-2015 Student Device On-Hand / Replacements	Oct 2013	50	$ 406.66	$ 20,333.00
2013-2015 Student Device Battery Replacements	Oct 2013	100	$ 85.00	$ 8,500.00
C. Software/Web 2.0 **				
Google Apps for Education	Live Aug-13	0	$ -	$ -
Microsoft Security Essentials per Device	July & Oct 2013	0	$ -	$ -
2013-2014 Lightspeed Content Filtering per Device	Aug 2013	1,073	$ 4.00	$ 4,292.00
2014-2015 Lightspeed Content Filtering per Device	Aug 2014	1,081	$ 4.00	$ 4,324.00
My Big Campus (MBC)	Currently Live	0	$ -	$ -
	Total needed for Go One-Go On Project			**$ 64,288.56**

Student/Staff Device Specifications *

Lenovo ThinkPad X131e, AMD E2-1800 processor, 8 GB of memory, 320 GB hard drive, and Windows 7 Pro 64-bit

Software/Web 2.0 **

Middleton School District is moving from a Novell Groupwise e-mail system to Google Apps for Education that includes free e-mail. Students can now utilize Google Docs to develop documents via the "cloud" versus using MIcrosoft Office products. This alone saves ~ $55,000 in software costs. Students will need both antivirus and content filtering on and off campus. Microsoft Security Essentials comes with the Windows 7 Pro operating system. Lightspeed systems is MSD #134 Internet content software that will filter students when they are not connected to the MSD Network.