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# Pennsylvania Department of Education

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Commonwealth of Pennsylvania  
**Department of Education**  
333 Market Street  
Harrisburg, PA 17126-0333

## **Educational Technology Report** **Monday, March 14, 2011** **(Last Approved: Monday, March 14, 2011)**

**Entity:** Ferndale Area SD  
**Address:** 100 Dartmouth Ave  
Johnstown, PA 15905-2305  
**Phone:** (814) 535-1507  
**Contact Name:** Carole Kakabar

## **Mission**

As a result of a consensus building process involving professional staff, school board, community, parents, and business representatives, the strategic planning steering committee retained the district's mission statement:

**“BIG ENOUGH TO CHALLENGE, SMALL ENOUGH TO CARE”**

**“FERNDALDE AREA SCHOOL DISTRICT - WHERE CHILDREN ARE ALWAYS FIRST”**

## **Vision**

To accomplish this mission, the Ferndale Area School District will strive to provide a safe and nurturing community for excellent teaching and learning where students prepare for a life of continual learning and acquire the knowledge, skills, and attitudes necessary to solve problems, communicate effectively, and to be responsible citizens.

## **Shared Values**

- We believe that all students can learn.
- We expect students to learn the skills, concepts, and values necessary for them to be successful in both their personal and professional lives.
- We ensure the academic success and personal growth of all students through modeling and instruction by providing individualized opportunities. Children/students are put first.
- We hold ourselves to a standard of excellence in our professional practices.
- We will promote a caring environment of respect, teamwork, integrity, and accountability.

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## **Needs Assessment**

### **Reflections**

- **District Technology Education**

**Strength Last Modified: 9/28/2010**

K-12 technology curriculum written and being implemented 2009-2010 school year.

Increased technology has been made available for use in the classrooms in 2010: At the Jr.-Sr. HS--- 2 additional roaming laptop carts, 6 new 21st Century Teaching and Learning teacher stations, 100 new student laptops, 54 new desktop computers, upgraded wireless connectivity, teachers received a laptop computer for remote access work, 25 new CAD computers, a laptop cart dedicated to Family and Consumer Sciences, 16 additional security cameras, Windows upgrade, Microsoft Office upgrade. At the Elementary---2 new roaming laptop carts, wireless access buildingwide, Windows upgrade, Microsoft Office upgrade.

The district employs an independent contractor who is a retired FAJSHS Tech Ed teacher to oversee current implementation of the technology curriculum through June 2011 and serve as our Technology Coach.

Contracted services with an outside vendor (InShore Technologies) allows for a technician accessible to the district daily and management and coordination of technology.

Purposeful use of our office technology system (MMS) for all district data systems--- student demographics, discipline, health, lunch, emergency notification, and EP writer.

District-wide staff development in technology is a priority--dedicated tech inservice days in 2007 and 2010, focused trainings on other inservice days and pull-out training; annual tech staff attendance at PETE & C conference; regular attendance at IU8 tech meetings.

**Concern Last Modified: 9/28/2010**

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Due to retirements, all district technology education teachers in 2009-2010 are new and need mentoring (being addressed through former teacher and CFF coach employed as an independent contractor).

PATI surveys as well as student and teacher surveys and parent input all indicate that teachers need more implementation training for the increased technology they now have available. Student use of technology in their work needs to be expanded.

Teacher coaches need to be identified, appointed and trained, as we phase out the independent contractor in June, 2011.

The district needs more accessibility and connection to parents/students/community through homework calendars, teacher pages, blogs, resource links, online parent trainings, parent portal to student grades, current postings to home pages of upcoming events/activities, etc.

More online resources for teachers are needed to be conservation conscious and more efficient, including remote access, document repositories, online trainings/links, building resource sites, etc.

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As a result of the current district technology plan coming to its end and the recent progression of technology (specifically in education), the district conducted a needs assessment to determine how to move forward for the next 5 years. The objectives of the assessment were as follows:

Audience: Gather feedback from all levels of users within the district (teachers, administrators, students, parents, etc.)

Objectives: The needs assessment was designed to meet specific objectives with respect to district technology:

- Gain an understanding of current strengths and weaknesses
- Identify potential strategies on how to move forward
- Identify all aspects of technology currently within the district and its use/non-use
- Leverage industry standards as the benchmark for weighing all feedback and planning

#### Identified Strengths and Weaknesses

##### Strengths:

- Microsoft Domain model for network backbone
- The majority of faculty is willing to embrace technology
- The administration is committed to supporting the implementation and use of technology
- The district utilizes an enterprise IT management company to provide reactive/proactive support of all aspects of technology
- The district has invested in, and deployed, several technology based learning tools, including:
  - Laptops, projectors and interactive white boards
  - Educational software
    - Study Island
    - SMARTscience
    - Accelerated Reader
    - Microsoft Office
    - Web development software (Dreamweaver, Adobe CS2)
  - Distance learning equipment
    - Various distance learning vendors and tools
    - Video conferencing equipment
  - Upgraded labs and increased number of student computers
- On-line classes through higher-education institutes (70+)
- The district uses a centralized student management system for grading, attendance and scheduling (MMS and Gradequick)
- Student and faculty network shares

##### Weaknesses

- Limited access to training opportunities
- Some faculty not embracing the use of technology in classroom instruction
- Inability to work remotely
- Outdated district website
- Limited capability mail program
- Lack of public (parent, student, community) technical resources such as web-site information, online grades, etc.
- Limited access to labs (due to scheduling)
- Overall limited access to resources at the elementary level
- Use of technology in student work
- Impending loss of technology and CFF coach
- Based on a technology assessment conducted by IU8 in spring/summer 2010 regarding the WAN: IU8 may need more telecom capacity. IU8 seeks medium to high bandwidth (1.5/10 Mbps to 100/1000 Mbps) telecom transport among the participating schools and to a regional Wide Area Network and broadband Internet access services. The transport links will be purchased via a Request for Proposals (RFP) coordinated by IU8.

## Goals and Strategies

### **Goal: TECHNOLOGY**

**Description:** By the year 2014, the staff and students will identify and integrate technology standards; derived through credible technology publications, interaction with technology coaches and colleagues and attending conferences and seminars; to achieve the following:

- Obtain technological resources and a thorough understanding of these resources to provide access to a technology-enriched curriculum
- Develop technology-literate students, able to access and analyze information from a variety of resources
- Implement enhanced technology-driven tools and resources for use by district staff and to increase communication between school and home.
- Use the regional Wide Area Network (WAN) in order to exchange educational information with other schools more cost-effectively.

### **Strategy: Design and implement community-wide, technology-driven communication**

**Description:** Provide resources to create timely, accurate, and efficient communication between FASD, its students, its parents, the community, and other educational institutions.

### **Activity: Enhance student management system (parent/student)**

**Description:** Provide online parent/student access to student information system at appropriate grade levels, including grades and lunch balance.

#### **Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 6/1/2007 Finish: 1/18/2008	\$1,200.00
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**Status:** Complete

<b>Date</b>	<b>Comment</b>
8/5/2009	Grading module is implemented and lunch modules will be active in the 2009-10 school year.
10/22/2009	Completed in the beginning of the 2009-10 school year.

### **Activity: Enhance/redesign district Website**

**Description:** Continue to enhance/update the district website using current development tools and hosting services to allow for greater access to district data for students, parents, and

community members.

**Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 6/1/2007 Finish: Ongoing	\$12,500.00
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**Status:** Not Started — Overdue

**Date Comment**

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5/6/2008	The district's website was completely redesigned during the 2007-08 school year. District and school-level information is comprehensive and includes staff e-mail lists, commonly used forms, sport schedules, handbook information, links to district policies, board agendas and minutes, links to appropriate educational organizations and content, PTO information, archived district newsletters, and important notification information.
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10/22/2009	Website updated and operational
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**Activity: Implement parent notification systems for emergency events**

**Description:** The district will research, purchase and deploy a system that will allow for administration to mass notify employees, students, parents, and community members in the event of emergency events, including school outages, early dismissals, and Amber alerts.

**Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 9/3/2007 Finish: 9/30/2010	\$5,100.00
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**Status:** Complete

**Date Comment**

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8/5/2009	Being completed
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9/26/2010	Starting November 2009, the district launched use of the MMS-linked One Call Now system for emergency notifications.
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**Strategy: Expand and increase district-level technology driven communication and collaboration**

**Description:** Provide resources to create timely, accurate, and efficient communication among faculty.

**Activity: Enhance district Website**

**Description:** Enhance the district website using current development tools and hosting services to allow for greater access to inner-district data, including teacher webpages, increased faculty/staff driven content (policies, forms, etc.), and online teacher tutorials.

Person Responsible	Timeline for Implementation	Resources
Long, Robb	Start: 8/24/2009 Finish: 1/19/2010	-

**Professional Development Activity Information**

Number of Hours Per Session	Total Number of Sessions Per School Year	Estimated Number of Participants Per Year
2.00	1	75

Organization or Institution Name	Type of Provider	Provider's Department of Education Approval Status
FASD, IU8	<ul style="list-style-type: none"> <li>School Entity</li> <li>Intermediate Unit</li> </ul>	Approved

Knowledge and Skills	Research and Best Practices	Designed to Accomplish
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homework calendars, teacher pages/sites, access to paper documents online---ease of access to documents and information, online training and information.

*For school and district administrators, and other educators seeking leadership roles:*

- Instructs the leader in managing resources for effective results.

**Educator Groups Which Will Participate in this Activity**

Role	Grade Level	Subject Area
<ul style="list-style-type: none"> <li>Classroom teachers</li> <li>Principals / asst. principals</li> <li>Superintendent / asst. superintendents</li> <li>School counselors</li> <li>Other educational specialists</li> </ul>	<ul style="list-style-type: none"> <li>Early childhood (preK-grade 3)</li> <li>Middle (grades 6-8)</li> <li>Elementary (grades 2-5)</li> <li>High school (grades 9-12)</li> </ul>	<ul style="list-style-type: none"> <li>Pre-Kindergarten Early Learning Standards</li> <li>Reading, Writing, Speaking &amp; Listening</li> <li>Science and Technology</li> <li>Arts &amp; Humanities</li> <li>Civics and Government</li> <li>Environment and Ecology</li> <li>Health, Safety and Physical Education</li> <li>World Languages</li> <li>Kindergarten Early Learning Standards</li> </ul>

- Mathematics
- History
- Career Education and Work
- Economics
- Family and Consumer Sciences
- Geography

**Follow-up Activities**

**Evaluation Methods**

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| <ul style="list-style-type: none"> <li>• Team development and sharing of content-area lesson implementation outcomes, with involvement of administrator and/or peers</li> <li>• evidence of use</li> </ul> | <ul style="list-style-type: none"> <li>• posting (posting to website)</li> <li>• use (evidence of accessing posted data online)</li> </ul> |
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**Status:** Complete

**Date      Comment**

9/28/2010	Teacher webpages need to be implemented with some online training modules in place.
3/8/2010	foundation complete

**Activity: Enhance mail and messaging system, use of online tools**

**Description:** Implement and utilize MS Exchange/Outlook to allow for implementation of the following systems: email, calendar, tasks, distribution lists, Web access, and public folders. Use of online tools for student data analysis and parent communication.

Person Responsible	Timeline for Implementation	Resources
Long, Robb	Start: 8/25/2008 Finish: 8/23/2009	\$6,000.00

**Professional Development Activity Information**

Number of Hours Per Session	Total Number of Sessions Per School Year	Estimated Number of Participants Per Year
3.00	1	75
Organization or Institution Name	Type of Provider	Provider's Department of Education Approval Status
FASD, IU8	• School Entity	Approved

- Intermediate Unit

**Knowledge and Skills**

**Research and Best Practices**

**Designed to Accomplish**

Better student data analysis and management, better communication: eMetric, PVAAS, Office 2007 updates, MMS Gradebook, teacher calendars using SAS, use of the WAN

*For classroom teachers, school counselors and education specialists:*

- Provides educators with a variety of classroom-based assessment skills and the skills needed to analyze and use data in instructional decision-making.
- Empowers educators to work effectively with parents and community partners.

*For school and district administrators, and other educators seeking leadership roles:*

- Provides leaders with the ability to access and use appropriate data to inform decision-making.
- Empowers leaders to create a culture of teaching and learning, with an emphasis on learning.
- Instructs the leader in managing resources for effective results.

**Educator Groups Which Will Participate in this Activity**

<b>Role</b>	<b>Grade Level</b>	<b>Subject Area</b>
<ul style="list-style-type: none"> <li>• Classroom teachers</li> <li>• Principals / asst. principals</li> <li>• Superintendent / asst. superintendents</li> <li>• School counselors</li> <li>• Other educational specialists</li> </ul>	<ul style="list-style-type: none"> <li>• Early childhood (preK-grade 3)</li> <li>• Middle (grades 6-8)</li> <li>• Elementary (grades 2-5)</li> <li>• High school (grades 9-12)</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Kindergarten Early Learning Standards</li> <li>• Reading, Writing, Speaking &amp; Listening</li> <li>• Science and Technology</li> <li>• Arts &amp; Humanities</li> <li>• Civics and Government</li> <li>• Environment and Ecology</li> <li>• Health, Safety and Physical Education</li> <li>• World Languages</li> </ul>

- Kindergarten Early Learning Standards
- Mathematics
- History
- Career Education and Work
- Economics
- Family and Consumer Sciences
- Geography

Follow-up Activities	Evaluation Methods
<ul style="list-style-type: none"> <li>• demonstrated use</li> </ul>	<ul style="list-style-type: none"> <li>• demonstrated use</li> </ul>

**Status:** Complete

Date	Comment
9/29/2010	All foundational facets are complete and active.

**Activity: Enhance Student Management System (inner-district)**

**Description:** Implement online component to existing student management system, including appropriate student data (example: health, demographics, etc.), deploy online grading component at appropriate grade levels, and fully utilize health module of MMS, including integration with health-related tools (HealthEtools, etc.). Added MMS lunch module in 2009-2010, and will add IEP writer module in 2010-2011. Future plans include adding an attendance-taking module.

Person Responsible	Timeline for Implementation	Resources
Long, Robb	Start: 8/25/2009 Finish: 6/1/2013	\$28,542.00

**Professional Development Activity Information**

Number of Hours Per Session	Total Number of Sessions Per School Year	Estimated Number of Participants Per Year
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3.00	1	75
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Organization or Institution Name	Type of Provider	Provider's Department of Education Approval Status
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- School Entity
- Approved

Knowledge and Skills	Research and Best Practices	Designed to Accomplish
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Educators will be able to implement the new technology tools.	Technology assistance will allow for better record keeping and less time away from the child/parents.	<i>For classroom teachers, school counselors and education specialists:</i>
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- Empowers educators to work effectively with parents and community partners.

*For school and district administrators, and other educators seeking leadership roles:*

- Instructs the leader in managing resources for effective results.

### **Educator Groups Which Will Participate in this Activity**

<b>Role</b>	<b>Grade Level</b>
<ul style="list-style-type: none"> <li>• Classroom teachers</li> <li>• Principals / asst. principals</li> <li>• Superintendent / asst. superintendents</li> <li>• School counselors</li> <li>• Other educational specialists</li> </ul>	<ul style="list-style-type: none"> <li>• Early childhood (preK-grade 3)</li> <li>• Middle (grades 6-8)</li> <li>• Elementary (grades 2-5)</li> <li>• High school (grades 9-12)</li> </ul>

<b>Follow-up Activities</b>	<b>Evaluation Methods</b>
<ul style="list-style-type: none"> <li>• active use</li> </ul>	<ul style="list-style-type: none"> <li>• evidence of use (actual use based on criteria set.)</li> </ul>

**Status:** In Progress — Upcoming

<b>Date</b>	<b>Comment</b>
9/29/2010	Deployed online grading component at appropriate grade levels. Health module incorporated in July 2009. Lunch module incorporated August 2009.
9/8/2010	8/18/10 IEP Writer module incorporated.
1/27/2011	Health module added and updated in 2010. IEP writer module added.

### **Activity: Wide Area Network (WAN) connection and use.**

**Description:** Our school aims to have intra-district high-speed transport and connect to a regional Wide Area Network (WAN) in order to exchange educational information with other schools more cost-effectively. We hope to receive bulk discounts on Internet services, enhance our distance education capabilities, and generally improve our quality of education. This will be done through better collaboration with regional and state K-12 institutions, including connecting to PAIUnet, our statewide K-12 network for education. Additionally, through the WAN project, we will

undergo a building to building connectivity project between our elementary and secondary schools.

**Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 7/1/2011 Finish: Ongoing	\$28,800.00
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**Status:** Not Started — Upcoming

**Date Comment**

1/27/2011 This has not been initiated as of this year. Begins this July, 2011.

**Strategy: Integrate Technology Across the Curriculum**

**Description:** Support content instruction with technology uses and resources.

**Activity: Create Supportive Infrastructure**

**Description:** The district is currently running antiquated core network systems (10 mbps switches, servers running on converted desktops, lack of wireless). Newer hardware will be introduced to bring the district to the following specifications: Gb speed backbone, Act 183 broadband connection (8x8mb internet, I2, and 100Mb regional WAN connection), servers running RAID 5, redundant/backup power on all critical devices/servers, daily back-up of critical data, Windows XP on all PCs, and wireless in all school areas.

**Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 6/1/2007 Finish: 1/18/2008	\$30,000.00
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**Status:** Complete

**Date Comment**

8/5/2009 Completed

**Activity: Distance Learning**

**Description:** Utilize distance learning to enhance and expand opportunities for secondary students. District provides on-line courses through various vendors.

**Person Responsible Timeline for Implementation Resources**

Reiter, Jennifer	Start: 1/1/2008 Finish: Ongoing	\$95,000.00
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**Status:** Complete

**Date      Comment**

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8/5/2009	Courses provided on-line
9/8/2010	A variety of distance learning courses from different vendors are hosted at the high school level based on students' career plans and intended collegiate studies. Vendors/courses purchased depend on alignment with student need/interest.

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**Activity: Enhance K-12 Curriculum**

**Description:** Develop K-12 curriculum which addresses the competencies required to graduate technology literate students, including word processing, Powerpoint, spreadsheet, technology-based research, as well as advanced applications.

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<b>Person Responsible</b>	<b>Timeline for Implementation</b>	<b>Resources</b>
Soohy, Karen	Start: 4/1/2009 Finish: 6/7/2011	\$500.00

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**Professional Development Activity Information**

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<b>Number of Hours Per Session</b>	<b>Total Number of Sessions Per School Year</b>	<b>Estimated Number of Participants Per Year</b>
1.00	1	42
<b>Organization or Institution Name</b>	<b>Type of Provider</b>	<b>Provider's Department of Education Approval Status</b>
Ferndale Area School District	• School Entity	Approved

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<b>Knowledge and Skills</b>	<b>Research and Best Practices</b>	<b>Designed to Accomplish</b>
Teachers will learn what particular competencies are to be taught at each grade level and tools to use.	Based on PA standards of Science and Technology and on national technology standards.	

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**Educator Groups Which Will Participate in this Activity**

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<b>Role</b>	<b>Grade Level</b>	<b>Subject Area</b>
<ul style="list-style-type: none"><li>• Classroom teachers</li><li>• Other educational specialists</li></ul>	<ul style="list-style-type: none"><li>• Early childhood (preK-grade 3)</li><li>• Middle (grades 6-8)</li><li>• Elementary (grades 2-5)</li><li>• High school (grades 9-12)</li></ul>	<ul style="list-style-type: none"><li>• Science and Technology</li></ul>

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<b>Follow-up Activities</b>	<b>Evaluation Methods</b>
<ul style="list-style-type: none"><li>• Team development and sharing of content-area lesson</li></ul>	<ul style="list-style-type: none"><li>• Lesson observation (look for evidence of instruction and assessment)</li></ul>

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- implementation outcomes, with involvement of administrator and/or peers
- PATI survey review
- Curriculum Review (review progress of implementation)

**Status:** Complete

<b>Date</b>	<b>Comment</b>
9/27/2010	A K-12 technology curriculum was approved at the board level and will be implemented in the 2009-10 school year.
9/27/2010	8/5/2009 A K-12 technology curriculum was approved at the board level and was implemented in the 2009-2010 school year. Its implementation will be monitored through June 2011.

**Activity: Implement mentors/coaches**

**Description:** The district will identify staff members who are savvy with technology to team with or coach other staff members to increase overall staff proficiency.

**Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 1/1/2008 Finish: Ongoing	-
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**Status:** Not Started — Overdue

**Activity: Incorporate learning software and online resources into curriculum for student use.**

**Description:** Students will use tools such as 4Sight, Study Island, Accelerated Reader, and SMARTscience to enhance their learning.

**Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 9/5/2008 Finish: Ongoing	-
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**Status:** In Progress — Upcoming

<b>Date</b>	<b>Comment</b>
8/5/2009	Being implemented and changed to meet needs of students.
1/25/2010	The district has successfully implemented Study Island, 4Sight and Accelerated Reader into the curriculum. Cognitive Tutor is no longer used. Teachers are implementing SMARTscience as well as tools such as Thinkfinity and



- Intermediate Unit

Knowledge and Skills	Research and Best Practices	Designed to Accomplish
Expanded use of technology to bring lessons to life in the classroom. Expanded use of technology to administer instruction and assessment.	Technology implemented is all supported by PDE initiatives.	<p data-bbox="992 346 1369 436"><i>For classroom teachers, school counselors and education specialists:</i></p> <ul data-bbox="1040 478 1385 877" style="list-style-type: none"> <li>• Increases the educator's <u>teaching skills</u> based on research on effective practice, with attention given to interventions for struggling students.</li> <li>• Provides educators with a variety of classroom-based <u>assessment skills</u> and the skills needed to <u>analyze and use data</u> in instructional decision-making.</li> </ul> <p data-bbox="992 913 1344 1031"><i>For school and district administrators, and other educators seeking leadership roles:</i></p> <ul data-bbox="1040 1073 1373 1316" style="list-style-type: none"> <li>• Empowers leaders to create a <u>culture of teaching and learning</u>, with an emphasis on learning.</li> <li>• Instructs the leader in <u>managing resources</u> for effective results.</li> </ul>

**Educator Groups Which Will Participate in this Activity**

Role	Grade Level
<ul style="list-style-type: none"> <li>• Classroom teachers</li> <li>• Principals / asst. principals</li> <li>• Superintendent / asst. superintendents</li> <li>• School counselors</li> <li>• Other educational specialists</li> </ul>	<ul style="list-style-type: none"> <li>• Early childhood (preK-grade 3)</li> <li>• Middle (grades 6-8)</li> <li>• Elementary (grades 2-5)</li> <li>• High school (grades 9-12)</li> </ul>

Follow-up Activities	Evaluation Methods
<ul style="list-style-type: none"> <li>• Team development and sharing of content-area lesson implementation</li> </ul>	

- outcomes, with involvement of administrator and/or peers
- Analysis of student work, with administrator and/or peers
- Lesson modeling with mentoring

**Status:** In Progress — Upcoming

<b>Date</b>	<b>Comment</b>
9/28/2010	1/19/2009 Inservice on streaming video (Discovery), Thinkfinity, and online homework posting via SAS introduction. 6/7/10 Inservice on posting to a personal homework calendar using SAS 8/20/10 District-provided Promethean Board, Smart Board training
1/27/2011	Incorporated video conference capability at the elementary level.

### **Activity: Technical hardware deployment**

**Description:** Deploy hardware into classrooms for student and teacher use, including: smartboards, projectors, computers, video equipment, and student response systems.

#### **Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 9/17/2007	-
	Finish: Ongoing	

**Status:** In Progress — Upcoming

<b>Date</b>	<b>Comment</b>
8/5/2009	In place as of August 2009.
3/8/2010	continuous
1/27/2011	Replacement of technology at the secondary level has occurred and is greatly expanded at the elementary level and middle school level.

### **Activity: Upgrade classroom instructional hardware/software aids**

**Description:** Upgrade and expand classroom equipment to enable teachers to utilize technology as part of their instruction, including additional student PCs, laptop computers, upgraded student PCs, projectors, and scanners.

#### **Person Responsible Timeline for Implementation Resources**

Long, Robb	Start: 6/1/2007	\$244,000.00
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Finish: Ongoing

**Status:** In Progress — Upcoming

<b>Date</b>	<b>Comment</b>
8/5/2009	Completed as of 2009-10 school year.
3/8/2010	continuous
9/26/2010	Summer, 2010, upgrades: At the Jr.-Sr. HS--- 2 additional roaming laptop carts, 6 new CFF teacher stations, 100 new student laptops, 54 new desktop computers, upgraded wireless connectivity, teachers received a laptop computer for remote access work, 25 new CAD computers, a laptop cart dedicated to Family and Consumer Sciences, 16 additional security cameras, Windows upgrade, Microsoft Office upgrade. At the Elementary---2 new roaming laptop carts, wireless access buildingwide, Windows upgrade, Microsoft Office upgrade.
1/27/2011	Occurred as planned.

## Budget

### Potential Budget for a NEW plan report that will span 7/1/2011 to 6/30/2014

<b>Funding Source</b>	<b>2011-2012</b>	<b>2012-2013</b>	<b>2013-2014</b>	<b>Total</b>
010 - ADMINISTRATIVE BUDGET	\$52,600.00	\$39,900.00	\$26,500.00	\$119,000.00
050 - CONTINUING PROFESSIONAL EDUCATION SERVICES	\$4,000.00	\$3,000.00	\$2,500.00	\$9,500.00
<b>Grand Total</b>	<b>\$56,600.00</b>	<b>\$42,900.00</b>	<b>\$29,000.00</b>	<b>\$128,500.00</b>

#### Goal: TECHNOLOGY

By the year 2014, the staff and students will identify and integrate technology standards; derived through credible technology publications, interaction with technology coaches and colleagues and attending conferences and seminars; to achieve the following:

- Obtain technological resources and a thorough understanding of these resources to provide access to a technology-enriched curriculum
- Develop technology-literate students, able to access and analyze information from a variety of resources
- Implement enhanced technology-driven tools and resources for use by district staff and to increase communication between school and home.
- Use the regional Wide Area Network (WAN) in order to exchange educational information with other schools more cost-effectively.

<b>Design and implement community-wide, technology-driven communication</b>	<b>2011-2012</b>	<b>2012-2013</b>	<b>2013-2014</b>	<b>Total</b>	<b>Funding Source</b>
Enhance/redesign district Website	\$2,500.00	\$2,500.00	\$2,500.00	\$7,500.00	010 - ADMINISTRATIVE BUDGET
Implement parent notification systems for	\$1,700.00	\$0.00	\$0.00	\$1,700.00	010 - ADMINISTRATIVE

emergency events					BUDGET
<b>Expand and increase district-level technology driven communication and collaboration</b>	<b>2011-2012</b>	<b>2012-2013</b>	<b>2013-2014</b>	<b>Total</b>	<b>Funding Source</b>
Wide Area Network (WAN) connection and use.	\$14,400.00	\$14,400.00	\$0.00	\$28,800.00	010 - ADMINISTRATIVE BUDGET
<b>Integrate Technology Across the Curriculum</b>	<b>2011-2012</b>	<b>2012-2013</b>	<b>2013-2014</b>	<b>Total</b>	<b>Funding Source</b>
Distance Learning	\$14,000.00	\$15,000.00	\$16,000.00	\$45,000.00	010 - ADMINISTRATIVE BUDGET
Increase faculty technology integration	\$4,000.00	\$3,000.00	\$2,500.00	\$9,500.00	050 - CONTINUING PROFESSIONAL EDUCATION SERVICES
Upgrade classroom instructional hardware/software aids	\$20,000.00	\$8,000.00	\$8,000.00	\$36,000.00	010 - ADMINISTRATIVE BUDGET
<b>Subtotal</b>	<b>\$56,600.00</b>	<b>\$42,900.00</b>	<b>\$29,000.00</b>	<b>\$128,500.00</b>	
<b>Grand Total</b>	<b>\$56,600.00</b>	<b>\$42,900.00</b>	<b>\$29,000.00</b>	<b>\$128,500.00</b>	

## Staff Development

Ferndale Area School District remains committed to staff development in technology. On a large scale, every other school year, a day is denoted as "Tech Day" and teachers/staff attend sessions in areas of need and interest as determined through the PATI survey and staff surveys. On a smaller scale, specific trainings on new technologies/system upgrades are provided for identified staff members. These might be set up as:

- district or building level trainings in a computer lab
- "1 on 1" and "1 on small group" sessions
- In-class assisted coaching, mentoring
- an online training or webinar
- summer and after school training sessions

Trainers: online/webinar presenters, technicians from In-Shore Technologies, trainers from IU8 or vendor on-site trainers, district staff.

2009-2010 sessions have targeted the following skills:

- Microsoft Office upgrades including: gradebook, lunch module, health module with medical alerts, and IEP writer module
- Automated Emergency Parent Notification System

- Smartboards and Promethean Boards
- Streaming video (Discovery Learning)
- Thinkfinity
- Graphic organizers
- Distance learning
- Electronic lesson plans
- On-line homework calendars via the SAS
- K-12 Technology curriculum integration
- Microsoft Outlook/Exchange upgrades
- incorporation of PIMS with MMS

Training from 2010-2013 is anticipated in the following areas:

- continued upgrades to Microsoft and MMS systems
- online attendance accounting
- adding online staff resource tools, and accessing/using online staff resource tools
- adding online parent resource tools and accessing on-line parent feedback
- adding online student resource tools and extracting student data and feedback from them
- general staff training in educational tools and time to practice
- general staff training in student tools and incorporating them into instruction, assignments and presentations
- expanded use of the SAS
- website design, posting
- incorporatoin of new technology as it constantly evolves.
- professional development for identified teacher technology coaches

## Monitoring

The district currently has several mechanisms for monitoring the progress of technical initiatives, and they include:

- Technology Committee — The tech committee will continue to monitor district progress toward defined goals, recommending necessary revisions to the FASD Strategic Plan. The committee is made up of stakeholders from all groups: students, teachers, administrators, parents/community.
- Administrative technical status sessions — Monthly administrative meetings (including administrators, In-Shore Technologies, and our technology coach) provide real-time identification of needs and solutions, to promote the operational functionality of the district's technological development. Status checks regarding initiatives and timelines are reviewed at these meetings. Glitches and new directions or additional information is shared, discussed, and concluded. Everyone stays informed through these meetings.
- Monthly building level meetings between the building administrator and In-Shore Technologies allow for on-site status checks. There is also a monthly meeting between district administration and In-Shore Technologies to discuss budgeting and district-level initiatives.

## Evaluation

The current state of technology in the district: The district has updated labs and expanded labs in the Junior-Senior High School. All HS core teachers have 21st Century Teaching and

Learning equipment as well as 3 core Junior High teachers and all special needs teachers. Both HS labs have new desktops, and 100 laptops have been replaced. Laptops were purchased for teachers for out-of-school work. Sixteen additional security cameras were purchased and installed. New computers were purchased for the CAD lab. Replaced laptops were put on carts to use for Family and Consumer Sciences and to have available in the junior high. Upgraded wireless connection points now allow all buildings to be wireless. The elementary has 2 new laptop carts available to staff as well as additional smart board technology. The district has upgraded the data management system (MMS) to incorporate lunch, IEP, and health monitoring modules.

The district employs a CFF coach who is a retired secondary technology education teacher. The coach has provided professional development in the use of smart boards, implementation of the newly developed k-12 technology plan, and in the integration of distance learning into the curriculum. Teacher surveys indicate a strong preference for further development of technology skills and the implementation of innovative teaching strategies employing technology. The district plans to identify "technology mentors" across the grade levels and subject areas. These mentors will provide on-site, real time access to the integration of technology into classroom activities.

The Technology Committee members, the technology coach and the administrators will gather assessment data for the various goals described in this technology plan and explore a number of actions throughout the life of the plan to gauge effectiveness and future needs.

The district will utilize annual surveys (PATI Survey and a district-created survey) of the staff/students/other stakeholders to determine the amount of technology usage, training required and new technology available in the marketplace but not available in the school setting. The Technology Committee will use the data gathered from the surveys to identify underused technology and possible new technology tools to incorporate or expand upon. This data will allow the district to make decisions on disposal, retraining and budgeting for new purchases. The stakeholder surveys will determine the use of the website and public portals. This is also given to the committee the necessary information to see if the goals and strategies of the plan are being addressed.

The district will monitor IU8's progress toward coordinating service delivery through the WAN and participate in user committee meetings for IU8 updates on progress. The district will also monitor the number of users and uses of the WAN to determine how it is being used to improve education.

Teacher lessons K-12 should include academic standards for technology when appropriate in an effort to incorporate technology-guided lessons into the K-12 curriculum. Administrators will incorporate noting the inclusion of technology in the curriculum when appropriate to the lesson. Demonstrated use of technology after professional development should be expected and looked for. Data gathered from these observations will be reported to the Technology Committee to see if there is an increase in technology use over the year in an effort to meet the goals and strategies of the plan.

Student work should demonstrate an increased use of technology in research, assessment, presentation, etc. Demonstration of student work should be looked for. Data gathered from surveys will be reported to the Technology Committee to see if there is an increase in technology use by students over the year in an effort to meet the goals and strategies of the plan.

The Act 48 Committee will recommend technology-related professional development to the staff once every other year or as needed when technology changes or becomes available. Evaluation forms gathered after the professional development occurs will be collected by the administration. These forms will be used to determine the completion of goals and the progress of the plan.

The Superintendent will share all data with the Technology Committee, Administration, and the School Board to determine which goals have been met and progress made in completing other goals and strategies. This will allow the plan to be adjusted accordingly when it is reviewed and evaluated annually.