

# Technology Plan

## Caseville Public School District

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# 2012-2015

Revision March 8, 2012

## TECHNOLOGY PLAN SUMMARY SHEET

DISTRICT: Caseville Public School District  
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YEARS COVERED BY THIS PLAN: 2012-2015 (July 1, 2012 to June 30, 2015)  
DATE OF NEXT STATE REVIEW 2012  
INTERMEDIATE SCHOOL DISTRICT: Huron Intermediate School District  
URL FOR TECHNOLOGY PLAN: [www.caseville.k12.mi.us](http://www.caseville.k12.mi.us)

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(For a description of the required elements in a Technology Plan:)

<http://techplan.org/>

## CASEVILLE PUBLIC SCHOOL

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### **District Profile:**

K-12 students are housed in one building.

Located in the City of Caseville, Caseville Township, Huron County, State of Michigan.

Student Population: 274

The District is classified as rural.

### **School Buildings:**

Caseville Elementary School (grades K-5) has 109 students.

Caseville Middle School (grades 6-8) has 60 students.

Caseville High School (grades 9-12) has 86 students.

The District has 20 educators, 1 administrator and 8 support personnel.

Socioeconomic status: 65% of students qualify for free and reduced price lunches.

(Data @ 3/8/12)

### **District Mission Statement:**

*Caseville Public School, united with parents and community, is continuously igniting the desire to learn, instilling knowledge and meeting the needs of all students in their pursuit of excellence.*

# CASEVILLE PUBLIC SCHOOL

## Vision and Goals

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**Background of our technology planning initiative:** Caseville Public School's Board of Education, at the April 2001 board meeting, directed the administration to re-establish the Technology Committee for the purpose of bringing the school's technology up-to-date. The committee operates virtually and its membership is fluid.

Revisions were undertaken as follows:

1. Established a virtual Technology Committee, that is flexible and supports fluid membership.
2. Review and assess Technology Plan (2009-2012)
3. Examined the eleven required elements of an Educational Technology Plan by the State.
4. Seek approval of plan by Board of Education, by January 2012.

**District technology mission statement:** Caseville Public School is committed to improving and expanding student and staff learning about and through technology. Caseville Public School will provide technology as a tool to assist students and staff in their pursuit of learning.

**District technology vision statement:** Today's learners are facing a future filled with technology. It will be necessary for them to use technology productively. Learners will need to manipulate a computer and they will need to adapt to new technologies. The demands of the future will require students to address issues concerning ethics and social issues, such as copyright and privacy laws and the right use of technology. Learners in the twenty-first century will need to use technology to find information and use that information to solve problems.

### **How the technology plan ties in with the district mission and school improvement plan:**

The technology plan recognizes the District's *mission statement's* directive to "...ignite learning in students...." A progressive technology education is perceived by students as the way forward in the 21<sup>st</sup> century.

The technology plan is a significant and embedded part of the school *improvement plan*. Through the technology plan students and staff reach the goals set for improvement of student learning. Applications of technology occur in regular and special education programs.

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**Major goals of the technology plan (related to long-term vision and school/district mission):**

- To enhance classroom instruction and the learning process through the use of technology by providing access to technology that will support the teaching-learning process.
- To provide appropriate staff training and resources for instruction, so as to allow for the integration of technology in the educational curriculum.
- To seek funding through fiscal responsibility and available grants and programs that will allow the district to continue technology improvements, assuring the use of technology in all areas of the curriculum.

**Goals for district teachers and students:**

- To provide software and hardware to each classroom to reduce the teacher's administrative workload.
- To provide a portion of curriculum using Internet access, that will support all staff and students in the district.
- To increase instructional options for teachers and students.

**District Technology Plan Review Team**

**Name**

Mr. Robert Dorfman  
Mr. Kenneth Ewald  
Mr. Dustin Saalman  
Ms. Kathleen Tighe

**Position**

Parent, Board of Education Member  
K-12 Principal  
Teacher /Curriculum Director  
FTL-Lead Teacher

## CURRICULUM

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### **A. Goals and strategies, aligned with challenging State standards, for using information technology to improve teaching and learning.**

- To be a successful school in the twenty-first century, a school must use technology by integration into the District's curriculum. Technology is to be a seamless component in every curriculum area.
- The school has acquired PLATO K-12, Michigan Virtual HS, E-20-20 instructional software, which is being used as part of the school computer-assisted instructional program. Teachers will continue to explore applications of the Internet and other technologies in lessons addressing the Michigan benchmarks and Common Core Standards.
- The curriculum is driven by the State's Merit Core Curriculum, the Michigan Department of Education, and ISTE's National Educational Technology Standards (NETS).
- Teachers will have the tools to utilize the power of technology to teach and engage students in the learning process.
- The district will purchase curriculum-enhancing software to use for tutoring or whole group instruction.
- The appropriate resources need to be in place for instructional delivery to meet or exceed all state and national standards.
- To continue to implement a State of Michigan aligned technology curriculum that will be an integrated, consistent part of the K-12 curriculum.
- To integrate technology into the K-12 curriculum as a teaching tool, using freeware Moodle.

### **B. Strategies that are based in research and that integrate technology into curricula and instruction for purposes of improving student academic achievement and a timeline for this integration.**

- Staff Development will be key in the use of effective instructional strategies to help students understand and apply technology. MACUL Institute continues to provide a professional development network.
- Independent reading will be assisted by Read Naturally software and a classroom library collection.
- Activities outlined in this section will be ongoing throughout the life of this plan.
- MACUL research-based strategies are being employed, selectively.

### **C. Strategies for the delivery of specialized or rigorous courses and curricula through the use of technology, including distance-learning technologies.**

Online courses are offered from Michigan Virtual High School and E-20-20 as a strategy for the delivery of credit recovery and rigorous courses. Plato software is used to tutor students along a broad ability spectrum, especially in the high school resource room. One teacher completed training as an on line teacher. One teacher completed the College Boards training in Advanced Placement English. An ARRA grant brought technology to 40 special needs students in the resource room and inclusion settings. Advanced placement courses can be scheduled through the school principal.

**D. Strategies to promote parental involvement and to increase communication with parents, including a description of how parents will be informed of the technology to be used with students.**

Through the annual report, parents will be informed of the student use of technology. Parents are able to use the web to keep track of their child's progress. Parents can now review their child's lunch activity. These online offerings will be continued and enhanced.

Student products are displayed.

The school's web site is a powerful communicator for parents. School board policy is added to the online database.

**E. Strategies for developing the program, where applicable, in collaboration with adult literacy service providers.**

- To pursue community involvement and collaboration, including making technology available to the community.
- To offer computer classes to the adult members of the community in collaboration with the Intermediate School District and Michigan Works.
- Use district website to provide important school information to the community, including a comprehensive calendar, bulletin and Board Policy.

**F. Strategies for providing ongoing, sustained professional development for teachers, principals, administrators and school library media personnel to ensure that staff know how to use the new technologies to improve education or library services.**

- Staff will be encouraged to use their Professional Development Days to attend inservice events and/or workshops where technology is used in their area of teaching and learning. When possible, Caseville Public School will host inservice for the teachers. Local needs assessment will be used to determine topics presented at staff inservices.
- Voluntary training sessions will be conducted after school or during the summer. Topics will be chosen to meet instructional and curricular needs.
- In order to provide for as much training flexibility as realistically possible, a Training on Demand program is expected. Anytime a group of teachers need technical assistance, an attempt will be made to set up a group training session.
- When training needs arise that can best be met by out-of-district training, Caseville Public School will support its staff in acquiring this out-of-district training, to the extent possible in the budget. Staff members will be required to submit applications to the proper administration to receive approval.

- Activities outlined in this section will be ongoing throughout the life of this plan.
- MACUL Institute, a Caseville Public School affiliate, offers an extraordinary variety of professional development.

**G. Strategies and supporting resources such as services, software, other electronically delivered learning materials and print resources will be acquired to ensure successful and effective uses of technology.**

- In a small school district, it is difficult to divert funds and personnel to the upkeep of ever-increasing technology. It is important that the current technologies and newly obtained technologies and software are compatible and installed correctly. The district recognizes the need for outside technical support, and engages Abadata Technical Service Provider.
- Policies are in place on the maintenance of equipment, the upgrading/purchasing of hardware or software, training on new equipment and loan of equipment.
- Staff members have been trained on software packages: Moodle, Parent Connect, etc.
- MACUL Institute provides state of the art training onsite and offsite at little to no charge to its affiliates. Over the next three-year plan, inventory maintenance will be handled utilizing Skyward inventory module, for fixed assets. At the end of year 2012 all school operations (student and financial) will be fully maintained on Skyward software, 2010-2011, fixed assets are expected to be fully electronically accounted for.

**INFRASTRUCTURE, HARDWARE,  
TECHNICAL SUPPORT AND SOFTWARE**

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**H. Strategies to identify the need for telecommunication services, hardware, software and other services to improve education or library services, and strategies to determine interoperability among the components of technologies to be acquired.**

- **Current:** Category 5 was pulled throughout the building. Each classroom received five network drops. Watch Guard was added to the network to meet Public Act 212, Children Internet Protection Act. Efficient switchgear is used for routing. A single server handles the school's database needs. An email/Moodle server supports communication.

Caseville Public School currently has one computer labs containing 30 Windows-type computers. All of the computers are networked using Ethernet connections. They are able to print to network printers and access storage. All are able to access the internet. Four digital projectors, one digital video camera, 4 digital cameras, wireless network, 180 HP laptops now form our wireless computing environment.

With wireless, students can access their online work with E-20-20 and Michigan Virtual High School throughout the building.

We are using SDS Student Package to manage all student information and scheduling. We are using SDS electronic grade book for teachers and Parent Connect, so parents can access their child's progress at any time via the Internet. We are using Watch Guard for Internet filtering. We are using SDS Financial package as the general ledger software. As part of the 2012-2015 plan, the Skyward Software program will be purchased and fully implemented. The Huron County ISD has provided the financial support necessary to provide all county school districts with the Skyward Software Package. These initiatives will undoubtedly help with collaboration, providing cost saving and greater technical support.

- **Future needs:** Integration of professional development is now an emphasis in the Technology Plan.

Scientific equipment, enhanced photographic equipment (printers), specialized equipment for different curriculum areas, document cameras, whiteboard video projectors are all needed in small numbers.

School-wide PLATO Learning, Inc. and E-20-20 needs to be expanded through professional development. Internet courses through the Michigan Virtual High School are now available. Students will be able to use these to meet the Michigan Merit Core Curriculum Standard.

All software will be reviewed during the 2012-2015 plan.

Replacement of existing laptops and upgrading of computers in the lab.

Broadband connectivity is a national, state and county goal. Caseville Public School has joined a consortium to apply for a major ARRA Grant to establish broad band in our geographic area.

**Technical Support:** Person(s) on *staff* to: monitor network logs, monitor network security and safeguards, maintain software and budget for future technology needs. An outside contractor is now handling maintenance of equipment. When the key databases shift to SDS web hosting, security maintenance will be reduced for school staff. Software installation will be largely handled by outside service provider.

## **I. Strategies to increase access to technology for all students and all teachers.**

Staff will continue to be inserviced on the use of technology in the instructional program as part of the ongoing approach to increase access to technology, but this will be on an individual needs basis.

Promising Assistive Technology experiments are in place, like Michigan Virtual High School, E-20-20, and PLATO.

Advanced Placement and other challenging coursework are becoming available to each upper level child through a system of online coursework and teacher training.

The Broadband Consortium has been formed and its hopes incorporated in this plan.

### **Broadband Plan Summary:**

Air Advantage, REMC 10 and Saginaw Valley State University, have jointly filed an ARRA “stimulus” broadband grant/loan application. If funded, this grant will install over 300 miles of fiber optic cable into the Thumb Region over a 3 year period, including a direct fiber connection to every public school district not already connected.

Each district will connect to this network via a 10Gbps layer 3 Switch with either an internal or external fiber optic transceiver. Each local district 10Gbps connection will connect directly to an interconnected via 10Gbps fiber optic transceivers in addition to being connected to St. Clair RESA and Bay-Arenac ISD.

### **Equipment Details:**

To support these connections a high-end layer 3 switch is needed at our district. This switch will have a minimum of 2 module slots that can each support 10Gbps transceiver modules allowing for either copper or fiber connections and a minimum of 1-internal or external 10Gbps fiber optic transceiver to connect to the ISD. The switch will also have a minimum of 48 copper 10/100/1000 Mbps ports.

The ISD will require a chassis based solution with redundant power supplies, enough 10Gbps module slots to support all local districts plus the interconnection to one or more other ISDs, enough 10Gbps fiber optic transceivers to support each of the local district and ISD to ISD connections, 48 copper 10/100/1000 Mbps ports and enough 1Gbps fiber optic transceivers to connect to other non-school agencies in the area.

**J. Timeline and budget covering the acquisition, implementation, interoperability provisions, maintenance and professional development related to the use of technology to improve student academic achievement.**

**PROJECTED COST**

**YEAR 1: 2012-2013**

| <b>Category</b>                                                                                        | <b>Budgeted Amount</b> |
|--------------------------------------------------------------------------------------------------------|------------------------|
| Hardware *                                                                                             | \$31,000               |
| Software, includes MiVHS *                                                                             | \$5,000                |
| Professional Development (Cash + In-kind)                                                              | \$6,350                |
| Internet Connections                                                                                   | \$2,800                |
| Purchased services:<br>Technology Support and Other Contracted Services,<br>Including database hosting | \$21,300               |
| Consumables                                                                                            | \$200                  |
| Direct Hire Personnel<br>Costs (salary/benefits)                                                       | \$1,000                |
| <b>Total</b>                                                                                           | <b>\$67,650</b>        |

**YEAR 2: 2013-2014**

| <b>Category</b>                                                                                       | <b>Budgeted Amount</b> |
|-------------------------------------------------------------------------------------------------------|------------------------|
| Software, includes MiVHS                                                                              | \$5,000                |
| Professional Development (cash + in-kind) *                                                           | \$6,350                |
| Internet Connections                                                                                  | \$2,800                |
| Purchased services:<br>Technology Support and Other Contracted<br>Services, includes database hosting | \$21,300               |
| Consumables                                                                                           | \$200                  |
| Direct Hire Personnel<br>Costs (salary/benefits)                                                      | \$1,000                |
| <b>Total</b>                                                                                          | <b>\$36,650</b>        |
|                                                                                                       |                        |

**Estimated Equipment Budget:** (prices and quantities subject o RFP)

| Item                              | Estimated Cost | USF Portion* | Grant Portion** |
|-----------------------------------|----------------|--------------|-----------------|
| LEA Switch (1 per LEA)            | \$13,500       | \$10,800     | \$2,700         |
| LEA 10Gbps Fiber Trans<br>(qty 1) | \$7,300        | \$5,840      | \$1,460         |
| LEA 1Gbps Fiber Trans<br>(qty 5)  | \$3,775        | \$0          | \$3,775         |

\* USF Portion is contingent upon USF approval for priority 2 equipment and is based on 80% REMC 10 consortium discount level.

\*\* If USF discounts are not approved for any reason, the grant portion will become 100% of the funding source.

**YEAR 3: 2014-2015**

| Category                                                                                             | Budgeted Amount |
|------------------------------------------------------------------------------------------------------|-----------------|
| Software, includes MiVHS                                                                             | \$5,000         |
| Professional Development (cash + in-kind) *                                                          | \$6,350         |
| Internet Connections                                                                                 | \$2,800         |
| Purchased services: Includes database hosting<br>Technology Support and<br>Other Contracted Services | \$21,300        |
| Consumables                                                                                          | \$200           |
| Direct Hire Personnel<br>Costs (salary/benefits)                                                     | \$1,000         |
| <b>Total</b>                                                                                         | <b>\$36,650</b> |
|                                                                                                      |                 |

**\* One-to-One Computing & Other Grant Support**

**J. COORDINATION OF RESOURCES – Strategies that will be employed to coordinate state and local resources to implement activities and acquisitions prescribed in the technology plan.**

- Technology is a critical component to all learners. Schools need to use local funds and funds acquired from other sources, in order to meet minimal standards.
- In the coming years, Caseville Public School will actively seek funds from the following sources:

- a. Universal Service Fund
- b. Vendors Grants (Intel, Control Data, Gates Foundation)
- c. Government Grants (REAP grants, ARRA-Special Education)
- d. Foundation Grants
- e. Title Money (I, II, VI)
- f. Donations from businesses and other community members
- g. One-to-one Institute
- h. Bank financing
- i. Cost avoidance and value engineering
- j. ARRA Data Management Consortium
- k. Broadband Consortium
- l. Local Fundraisers

**VI. L. MONITORING AND EVALUATION**

Evaluation will be conducted through a system of anecdotal observations carried out by each teacher utilizing the technology. Where outside sources are available for evaluation those will be enlisted: for example, eighth grade METS evaluations.

Beginning 2011-12, the school will bench mark student evaluation: The GLCE's will be the basis for assessment. ISTE remains the centerpiece in standards driven organizations in technology, and these are incorporated into the State's GLCE's..

PLATO, Michigan Virtual High School, and E-20-20have criterion reference assessment tools imbedded, so for the users, an individual approach is in effect.

Read Naturally is an intervention program also with criterion referenced assessment tools imbedded. It is used daily in a pullout program for upper elementary students. Students' progress in reading fluency in the elementary school will be evaluated in face-to-face settings with trained paraprofessionals.

- K. Acceptable Use Policy:** Caseville Public School subscribes to the NEOLA Policy service, which has provided a Board-adopted, Michigan approved, acceptable use policy in technology.

Additionally, the school uses Internet filtering provided by Watch Guard, the Internet filtering software.

REFERENCE: One-to-One Institute Newsletter, Volume 2, Issue One, Page 4, "Changes"

RECENT TECHNOLOGY MILESTONES:

- Board policies online for parents, staff and board members
- Parent reporting online for up-to-date student progress
- HISD funded PLATO course wraps with resource room
- SDS database hosting at offsite, reducing overheads
- CAI software Spanish, new feature in K-10 Spanish instruction
- Contracted hours of service with ABADATA, improving service and reducing overheads
- Fixed asset accounting – moved to procurement function
- MERIT (U of M) now broadband provider
- Moodle server installed, pilot on in middle school
- Three (3) Smart Boards acquired (09-10)
- Seven (7) Digital Projectors acquired (09-10)
- Seventeen (17) New Desk Top Computers acquired (09-10)