



STATE OF MICHIGAN
DEPARTMENT OF EDUCATION
LANSING



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PUBLIC INSTRUCTION

November 23, 2009

MEMORANDUM

TO: State Board of Education

FROM: Michael P. Flanagan, Chairman 

SUBJECT: Presentation of Draft 2010 State of Michigan Educational Technology Plan

Attached is a draft of the 2010 State of Michigan Educational Technology Plan. The State Director of Educational Technology and his staff worked with the various offices of the Michigan Department of Education (MDE), the Educational Technology Advisory Group (ETAG), and other education stakeholders in reviewing and updating the 2006 Educational Technology Plan, which the State Board of Education approved in March, 2006.

The 2006 State Educational Technology Plan was a culmination of extensive online and in-person discussions and planning and served as the solid foundation for the 2010 Plan. The 2008-2009 process followed a similar course (Appendix 1 of the 2010 Plan provides a list of participating stakeholders).

A substantial number of the goals and objectives, found in both the 2006 and 2010 Plan, is directly aligned with the National Educational Technology Plan published by the U.S. Department of Education in 2004 and elements called for in the U.S. Congress's 2001 authorization of the Elementary and Secondary Education Act (ESEA).

The most significant changes between the 2006 Plan and the 2010 Plan relate to the reorganizing and renaming of the goals to more clearly reflect the Michigan School Improvement Framework. This will assist MDE, Michigan's public school districts and public school academies, and other education stakeholders in aligning their work with improving student achievement and ensuring that school districts and academies have one unified school improvement plan.

The Technology Plan will be posted for public comment from December 15, 2009 to January 19, 2010. Informational and Question & Answer webinars will be scheduled during December 2009 and January 2010. The Technology Plan will come back to the State Board of Education for final approval in February 2010.

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2010 State of Michigan Educational Technology Plan Opportunities for Public Comment

The State Board of Education and Michigan Department of Education (MDE) is requesting public comment on the Draft 2010 State of Michigan Educational Technology Plan. The 2010 Plan represents the work of the Department and members of the Educational Technology Advisory Group to update, consolidate, align, and clarify the state's goals in the area of educational technology and the use of data to inform policy and practice.

Your thoughtful comments, questions, and opinions can make the document even better. MDE's educational technology staff have arranged the following "webinar" dates where you can provide public feedback:

- Tuesday, December 15, 2009, 10:00-11:00am – presentation and public comment
- Tuesday, December 22, 2009, 10:00-11:00am – presentation and public comment
- Tuesday, January 5, 2010, 2:00-3:00pm – presentation and public comment
- Tuesday, January 19, 2010, 2:00-3:00pm - presentation and public comment

The Draft 2010 State Educational Technology Plan along with a public comment survey has also been posted on the www.Michigan.gov/edtech and TechPlan.org websites. The deadline for public comment is Friday, January 22, 2010.

The final version of the 2010 State Educational Technology Plan will be presented at the Michigan State Board of Education meeting on Tuesday, February 9, 2010 for State Board approval.

The following call-in and WebEx information applies to all three webinars:

CALL-IN INFORMATION: 1-877-336-1831 | Access Code: 1517765

WEB MEETING INFORMATION: go to <https://webmeeting.att.com> *(see note below)
MEETING NUMBER: 8773361831 | ACCESS CODE: 1517765

* For those using AT&T's web meeting software for the first time, please download and install free software from the above ATT web address prior to the meeting.

For support or questions on the webinars, please contact Peggy Severns, severnsp@michigan.gov, 517-335-2957.

DRAFT

2010 STATE OF MICHIGAN
EDUCATIONAL TECHNOLOGY PLAN

December 2009

TEACHING FOR LEARNING
IN A DIGITAL AGE

2010 MICHIGAN STATE EDUCATIONAL TECHNOLOGY PLAN

"For many years, I have told students, 'Do not do what I do; rather, take whatever I have to offer and do with it what I could never imagine doing and then come back and tell me about it.' My hope is that our education systems will be shaken out of their complacency and will open teaching and learning to a future we cannot conceive."

– Mark C. Taylor, Ph.D., Columbia University

Introduction

The 2010 Educational Technology Plan includes the 2010-2012 goals and objectives of the Michigan State Board of Education and the Michigan Department of Education (MDE) related to increasing and improving learning options and outcomes for all Michigan PK-16 students through effective application of educational technology and data to inform instruction. The purpose of the Plan is to prepare ALL Michigan students to become productive citizens in a global society.

History

In March 2006, The Michigan State Board of Education adopted an Educational Technology plan that was a culmination of extensive online and in-person discussions and planning. A substantial number of the goals and objectives in the 2006 Plan come directly from the National Educational Technology Plan published by the U.S. Department of Education in 2004 and elements called for in the U.S. Congress's 2001 authorization of the Elementary and Secondary Education Act (ESEA), also known as No Child Left Behind.

In 2007 the MDE formed the Educational Technology Advisory Group (ETAG) to assist in monitoring progress toward implementing the strategies and action steps outlined in the 2006 Plan. The 47 ETAG members represented a diverse set of educational stakeholders and partners from intermediate school districts (ISDs), schools, teachers, parents, and businesses. The 2006 Plan proved to be an invaluable guiding resource for the work undertaken by MDE and its collaborative partners.

The 2010 Plan has been updated with significant input from the ETAG. A list of ETAG members is provided as an addendum to the 2010 Plan.

Changes

The most significant changes between the 2006 and 2010 Plans relate to the reorganizing and renaming of the 2006 goals to more clearly reflect the Michigan School Improvement Framework. This will assist MDE, Michigan's public school districts and academies, and other education stakeholders in aligning their work with improving student achievement and ensuring that school districts and academies have one unified school improvement plan.

Michigan Educational Technology Plan Goals

Please Note: for the purpose of review, the 2006 goals / strategies and action steps are notated at the end of the relevant 2010 goal, strategy, and action steps. EXAMPLE:

Goal 2, Strategy 1, Action Step 3: MDE will continue to partner with ETAG to guide and coordinate the implementation of this Plan, including its evolution and updating throughout its stated period (1.1.3)

1.1.3 = 2006 goal 1, strategy 1, action step 3.

The five goals of the 2010 Plan are:

1. **Teaching for Learning:** Michigan students will have meaningful technology-enabled learning opportunities, including assistive technologies and virtual learning opportunities, that develop proficiencies as defined by the Partnership for 21st Century Skills (21stcenturyskills.org). (2.0.0, 3.0.0)
2. **Leadership:** Michigan Department of Education (MDE) will continue to provide leadership for educational technology by expanding and developing transformative learning environments that increase student academic achievement. (1.0.0, 6.0.0, 7.0.0, 8.0.0)
3. **Professional Learning:** Michigan educators will have competencies in 21st Century Skills, especially information and media fluency, to enable the transformation of teaching and learning to improve student achievement. (5.0.0)
4. **School and Community Relations:** Michigan school board members, parents, and community members will understand the impact educational technology, including virtual learning options, and data have on informing and improving instruction. Schools, parents, and community members will be able to access and use school-level data to make meaningful decisions related to the education of all Michigan children. (New)
5. **Data and Information Management:** Michigan educators will have access to data for effective classroom decision making and school improvement planning through an integrated local and statewide decision support system and have access to professional learning opportunities to develop competencies in data-driven decision making. (4.0.0)

Michigan Educational Technology Plan Goal 1: Teaching for Learning

GOAL 1: TEACHING FOR LEARNING

Every Michigan student will have meaningful technology-enabled learning opportunities, including assistive technologies and virtual learning opportunities, that develop proficiencies in the full range of 21st Century Skills, as defined by the Partnership for 21st Century Skills (21stcenturyskills.org), required to become lifelong learners, including ethical, safe, and discerning behavior while using information and media technology. *(2.0.0, 3.0.0)*

Goal 1, Strategy 1:

MDE, with the help of its partners, will align and integrate the Michigan Educational Technology Standards for Students (METS-S) and 21st Century Skills within the Michigan Curriculum Framework (MCF) benchmarks and the High School Content Expectations and Grade Level Content Expectations (HSCEs/GLCEs). *(2.1.0, 3.1.0)*

Performance Indicator:

The Michigan Curriculum Framework benchmarks and content expectations will contain essential elements of the METS-S and 21st Century Skills so that separate standards are no longer necessary. *(2.1.0, 3.1.0)*

Goal 1, Strategy 1, Action Steps:

1. With assistance from the Educational Technology Advisory Group (ETAG), MDE will identify where the METS-S and 21st Century Skills already intersect or should intersect with the Michigan Curriculum Framework and content expectations. Groups such as curriculum, special education, technology, media specialists, colleges and universities, students, and workforce development agencies will be consulted. *(2.1.1)*
2. To the extent possible, MDE will work within any national academic or curricular standards consortium in which Michigan participates (e.g., mathematics, English Language Arts, etc.) to incorporate the National Educational Technology Standards for Students (NETS-S) and 21st Century Skills where appropriate. *(New)*

Michigan Educational Technology Plan Goal 1: Teaching for Learning

Goal 1, Strategy 2:

MDE will provide available and appropriate resources necessary to give all students access to effective technology-enabled learning environments, including assistive technologies, and increase opportunities for students to participate in project-based, challenge-based, and “real world” learning experiences, especially as these experiences relate to science, technology, engineering, and mathematics. *(3.1.0, 3.2.0)*

Performance Indicator:

All students will have anywhere, anytime access to effective technology solutions, including assistive technologies, throughout their learning day. These will include project-based, challenge-based, and “real world” learning experiences, especially as these experiences relate to science, technology, engineering, and mathematics content areas. *(3.1.0, 3.2.0)*

Goal 1, Strategy 2, Action Steps:

1. MDE will continue to identify strategies, participate in, and sponsor programs that increase student and educator access to educational technology, including assistive technologies, during and after the school day and outside the academic year. *(3.1.1)*
2. MDE, with its partners, will work to integrate project-based, challenge-based learning, and “real world” experiences into traditional academic classroom settings, especially those that focus on integrating science, technology, engineering, and mathematics. *(new)*

Goal 1, Strategy 3:

Building on Michigan’s online learning high school graduation requirement, MDE will promote and support the expectation that every Michigan student, especially at-risk students and students with special needs, will be provided the opportunity to learn in environments best suited for his or her learning style. *(3.3.0)*

Performance Indicator 1:

Every Michigan student will complete one credit-earning course or learning experience that incorporates online learning into instructional delivery as part of his or her successful completion of the Michigan Merit Curriculum’s (MMC) high school graduation requirements. *(3.3.0)*

Performance Indicator 2:

Every student will have access to virtual learning environments best suited to his or her individual learning needs. *(3.4.0)*

Michigan Educational Technology Plan Goal 1: Teaching for Learning

Goal 1, Strategy 3, Action Steps:

1. MDE will establish pupil accounting rules and policies that allow for and govern virtual learning programs in all Michigan schools in place of the current two "self scheduled course" maximum. Attention will be focused on demonstrated student success, especially "at-risk" students. *(3.4.4)*
2. MDE will continue to support "seat time" waiver programs for districts seeking to change their model of instruction to assist students in meeting the Michigan Merit Curriculum. Attention will be focused on demonstrated student success, especially "at-risk" students. *(3.4.4)*
3. MDE and its partners will promote increasing the online learning graduation requirement from a "twenty hour online learning experience" to one full credit-earning "online course" or "blended instruction" that includes a significant portion of online learning through an update to the State of Michigan Online Learning Guidelines. *(3.4.3)*
4. MDE and its partners will actively promote and support schools in integrating online learning experiences into all curricular areas and continue to coordinate, support, and sponsor state, national, and global online learning opportunities. *(3.4.5)*

Goal 1, Strategy 4:

MDE and its partners will disseminate, sponsor, and promote the sharing of research-based, technology-enabled models of instruction and curricular resources that effectively improve student learning. *(3.1.0, 3.2.0)*

Performance Indicator:

All students will have the opportunity to access effective technology-enabled learning environments that offer increased opportunities for academic success. *(3.1.0 and 3.2.0)*

Goal 1, Strategy 4 Action Steps:

1. MDE will continue to identify, sponsor, and promote programs that share best practices in technology-enabled teaching, models of instruction, and virtual learning environments that improve student learning. These programs will incorporate the principles of Universal Design for Learning (UDL). *(3.1.1, 3.2.1)*
2. MDE will provide leadership in evaluating effective technology-based teaching and learning practices, giving specific attention to virtual learning and seat time waiver programs, by establishing rigorous evaluation and research regimen. *(3.1.2)*

Michigan Educational Technology Plan
Goal 1: Teaching for Learning

3. MDE will work with ETAG, Michigan's colleges and universities, and other partners to research and explore a variety of delivery systems, including e-learning, virtual schools, simulations, and action games to determine effective strategies for individualizing learning. *(3.1.4)*

4. Working with its partners, MDE will explore opportunities to employ technology-based, assessment driven models of instruction that focus on helping students demonstrate proficiency against state standards and benchmarks, as an option for course or credit-completion models. *(3.1.5)*

Michigan Educational Technology Plan Goal 2: Leadership

GOAL 2: LEADERSHIP

Michigan Department of Education (MDE) will continue to provide leadership for educational technology by expanding and developing technology-enabled learning environments that increase student academic achievement. *(1.0.0)*

Goal 2, Strategy 1: Strengthen and coordinate leadership for educational technology at the regional, state, and national levels. *(1.1.0)*

Performance Indicator:

MDE will maintain the Educational Technology Advisory Group (ETAG) and the State Director of Educational Technology position. *(1.1.0)*

Goal 2, Strategy 1 Action Steps:

1. MDE will maintain the State Director of Educational Technology position to provide educational technology leadership and ensure innovative uses of educational technology across MDE offices. *(1.1.1)*
2. MDE will maintain ETAG, composed of representatives from regional and statewide organizations, higher education, and professional associations, to facilitate the coordination of technology initiatives and programs to benefit students and educators. *(1.1.2)*
3. MDE will continue to partner with ETAG to guide and coordinate the implementation of this Plan, including its evolution and updating throughout its stated period. *(1.1.3)*
4. MDE will continue to engage intermediate school districts (ISDs), Regional Educational Media Centers (REMCs), local education agencies (LEAs), public school academies (PSAs), and others in cooperative, coordinated, and collaborative activities that promote the use of data and educational technology as tools for improving teaching and learning. *(1.1.4)*
5. MDE will continue to use educational technology within its own practice to enhance communication, coordination, and collaboration. *(1.1.5)*
6. MDE will continue to participate in state and national agenda-setting opportunities, promoting the use of data and educational technology to improve teaching and learning. *(New)*

Michigan Educational Technology Plan Goal 2: Leadership

GOAL 2, Strategy 2:

MDE will work with and support other lead agencies to increase broadband access for all educators and students as a requirement of anywhere, anytime learning. *(6.1.0)*

PERFORMANCE INDICATOR 1:

By 2015, every school district in Michigan will have a minimum of 1 gigabyte per second (gbps) connectivity to the Internet and every school building, library, and public school academy in Michigan will have a minimum of 100 megabytes per second (mbps) connectivity to the Internet. *(New)*

PERFORMANCE INDICATOR 2:

By 2015, every student will have multiple means of broadband access to anywhere, anytime learning outside of the traditional school building. *(6.1.0)*

Goal 2, Strategy 2 Action Steps:

1. MDE will continue working with external partners and other state agencies to develop and implement a statewide plan for delivering 1 gbps connectivity to every ISD and LEA and 100 mbps to every school building, library and PSA by 2015. *(new)*
2. MDE will continue to collaborate with its partners on methods of increasing distributed eRate funding to Michigan schools and libraries. *(6.1.3, 8.3.5)*
3. MDE will work with its partners and other government agencies to create partnerships with Internet service providers to provide students and educators either free or low cost broadband access to support anywhere, anytime learning activities. *(6.1.1, 6.1.2, 6.2.1)*
4. MDE will engage the REMCs and ISDs in defining network safety and security protocols for local school networks to support districts in opening their networks for greater educational use while reducing the threats of legal challenges, security attacks, or loss of eRate funding. *(6.1.2)*

GOAL 2, Strategy 3:

Through the sharing of resources, MDE and its partners will provide statewide access to educational technology resources for the purpose of transforming teaching and learning. *(1.4.0, 7.1.0)*

Performance Indicator:

All educators and learners will have access to high quality online resources with professional development opportunities for integrating these resources into teaching and learning practices. *(1.4.0, 7.1.0)*

Michigan Educational Technology Plan Goal 2: Leadership

Goal 2, Strategy 3 Action Steps:

1. MDE will continue to work with the Regional Educational Media Centers (REMC), Michigan Virtual University, and other partners to provide Michigan schools with universal access to high quality digital instructional content. *(7.1.1)*
2. MDE, with its partners, will develop model processes to assist school districts in systematically acquiring, integrating, and replacing educational technologies. *(1.4.2)*
3. MDE will work its partners to establish, promote, and support statewide utilization of videoconferencing, including Internet Protocol (IP)-based technology solutions, to increase synchronous anywhere, anytime learning. *(7.1.2)*
4. Working with its partners, MDE will emphasize the importance of maintaining sufficient technical staff at the ISD and district level to support innovative educational opportunities in the classroom. *(7.2.2)*

GOAL 2, Strategy 4:

MDE will continue to provide seed money for developing innovative, technology enhanced programs that improve student learning. *(8.1.0, 8.2.0)*

Performance Indicator:

MDE will have funded a collection of research and evidence based programs that demonstrate improved student learning using educational technology, including assistive technologies. *(8.1.0, 8.2.0)*

Goal 2, Strategy 4 Action Steps:

1. MDE will continue to fund statewide projects with available resources, such as a web portal that supports online curriculum, lesson materials, professional learning, and research. *(7.1.3, 8.1.1, 8.1.2)*
2. MDE will award available grant funds for the development and dissemination of research and evidence based programs that demonstrate improved student learning using educational technology. *(new)*
3. MDE will foster innovative projects aligned with this Plan by establishing partnerships with educators, university/college researchers, and corporate advocates of educational technology. *(8.1.4)*
4. MDE will continue to support and encourage the use of cooperative purchasing programs for equipment, supplies, and services by LEAs and ISDs. *(8.3.6)*

Michigan Educational Technology Plan Goal 3: Professional Learning

GOAL 3: PROFESSIONAL LEARNING

Every Michigan educator will have competencies in 21st Century Skills, especially information and media technology, to enable the transformation of teaching and learning to improve student achievement. *(5.0.0)*

Goal 3, Strategy 1:

MDE, with its partners, will continue to integrate the National Educational Technology Standards for Teachers and the National Educational Technology Standards for Administrators (NETS-T/A), 21st Century Skills, and the principles of Universal Design for Learning (UDL) into Michigan's educator licensure, certification, and endorsement programs. MDE will also work to incorporate critical elements of these into all MDE sponsored professional development activities. *(1.2.0, 1.3.0, 3.2.0)*

Performance Indicator:

Michigan's Professional Standards for Teachers and the Program Standards for the Preparation of Central Office Administrators will contain critical elements of NETS-T/A, 21st Century Skills and the principles of Universal Design for Learning (UDL). Professional Development sponsored by MDE will provide teachers and administrators with the opportunity to develop and/or demonstrate proficiency, especially in the areas of information and media technology. *(1.2.0, 1.3.0, 3.2.0)*

Goal 3, Strategy 1, Action Steps:

1. MDE will continue to ensure that 21st Century Skills, as they relate to information and media skills and UDL principles, remain a critical element in Michigan educator standards and the state's licensing and certification program. *(1.2.1)*
2. Working with its partners, MDE will create and implement a skills assessment regarding technology competencies of educators based on the NETS-T/A and 21st Century Skills. This rubric-based assessment should measure the use of technology to deliver instruction, including assistive technology and principles of UDL, ensure educator information and media literacy, and determine the ability to individualize instruction for improving student achievement. MDE will continue to sponsor teacher and administrator professional development programs that incorporate critical elements of the NETS-T/A and 21st Century Skills. *(1.2.2, 1.3.1)*
3. MDE, with its partners, will create and implement a needs assessment regarding science, technology, engineering, and mathematics teaching and learning. MDE will continue to seek opportunities to sponsor teacher professional development programs that incorporate critical elements of the science, technology, engineering, and mathematics teaching and learning. *(New)*

Michigan Educational Technology Plan
Goal 3: Professional Learning

4. The state director of educational technology will work with the Office of Professional Preparation and with teacher preparation institutions to develop models for effective implementation of the NETS-T/A, and 21st Century Skills in teacher and administrator preparation programs, including methods to evaluate the technology integration skills, including the use of assistive technologies. *(5.3.2)*
5. MDE will explore requiring the State's teacher preparation institutions to integrate online learning into their programs in a meaningful way to prepare pre-service teaching graduates to integrate online learning into their classroom instruction. *(5.3.2)*
6. MDE will explore requiring the State's teacher preparation institutions to integrate the use of data analysis to inform instruction into their programs in a meaningful way. *(New)*
7. MDE will explore ways of requiring the state's teacher preparation institutions to ensure that all graduates understand how to incorporate Universal Design for Learning (UDL) strategies into their teaching practice to meet the learning needs of all students. *(5.3.4)*

Goal 3, Strategy 2:

MDE, with its partners, will provide professional learning opportunities for educators by leveraging educational technology tools to give educators experiences using such tools in their own professional learning. *(5.1.0)*

Performance Indicator:

Professional learning opportunities sponsored by MDE will leverage educational technologies in the delivery of instruction so that educators have the opportunity to experience technology-enabled learning in developing their own practice. *(5.1.0)*

Goal 3, Strategy 2, Action Steps:

1. All MDE sponsored professional development will be required to use the appropriate educational technologies, including assistive technologies, in the delivery of instruction. *(5.1.6)*
2. MDE will make available to educators an electronic system for tracking Continuing Education Units (CEUs) and "Individualized Professional Growth Plan" that includes activities in educational technology integration. *(5.1.2, 5.1.5)*

Michigan Educational Technology Plan
Goal 3: Professional Learning

3. MDE will continue to collaborate with statewide groups to develop and sustain ongoing professional development that incorporates technology curriculum integration, principles of UDL, and data-informed, differentiated instruction. *(5.1.3)*
4. MDE will continue to implement policies that foster the expansion of online professional learning opportunities for all educators and support personnel through online portals such as Michigan Online Resources for Educators (MORE) and Michigan LearnPort. *(5.1.9)*

Goal 3, Strategy 3:

MDE will continue to provide professional learning activities for MDE staff relating to technology integration, UDL principles, the effective use of data, and the use of technology to improve personal professional practice. *(5.4.0)*

Performance Indicator:

All MDE staff will have access to educational technologies to improve their practice and will have the option of attending professional learning activities related to the impact of data and educational technology on student achievement, the principles of UDL, and how technology can increase their professional productivity. *(5.4.0)*

Goal 3, Strategy 3, Action Steps:

1. MDE will continue to work with its partners to provide access to frequent learning opportunities for all MDE staff related to data to inform instruction, educational technology integration, the principles of UDL, and other technology related topics. *(5.4.2)*

Michigan Educational Technology Plan Goal 4: School and Community Relations

GOAL 4: SCHOOL AND COMMUNITY RELATIONS

Michigan school board members, parents, and community members will understand the impact of educational technology, including virtual learning options, and the impact of data to inform and improve instruction. Schools, parents, and community members will be able to access and use school-level data to make meaningful decisions related to the education of all Michigan children. *(New)*

Goal 4, Strategy 1:

MDE will seek opportunities to communicate to schools, parents, communities, and state and federal policymakers the benefits and cautions related to educational technology, including virtual learning. *(New)*

Performance Indicator:

Michigan educators, parents, policymakers, and communities will understand the benefits of integrating educational technology in the curriculum, including virtual learning options. *(New)*

Goal 4, Strategy 1, Action Steps:

1. MDE will develop a communication plan to provide opportunities and information to schools, parents, and other members of the community to demonstrate the importance of incorporating the METS-S and 21st Century Skills into a school's curricular offering. *(1.4.2)*
2. Once pupil accounting rules exist to provide 100 percent virtual learning options, MDE will work with its partners to develop and disseminate information to schools, parents, and communities on the benefits, cautions, and availability of cyber education in Michigan. *(1.4.2)*
3. MDE and its partners will identify online learning resources that demonstrate promise, align to Michigan's curriculum standards, and will have a positive impact on student learning. Once identified, MDE and its partners will disseminate the findings to schools, parents, and communities. *(1.4.2)*
4. MDE, with its partners, will continue to develop advocacy strategies that involve schools, parents, and communities at the state and federal level to promote the use of data and education technology to improve student achievement. *(1.4.2)*

Michigan Educational Technology Plan
Goal 4: School and Community Relations

5. MDE and the Center for Educational Performance and Information (CEPI) will work with their partners to provide a single website to access appropriate data reports for teachers, administrators, parents, community members, and education researchers. *(4.1.6, 4.3.4)*

6. MDE and CEPI will work with Michigan’s teacher preparation institutions to establish and fund education research collaboratives for the purpose of identifying and disseminating emerging and exemplary practices in pre-service teacher education. MDE and CEPI will streamline data access for education researchers partnering with the state and Michigan schools on shared research objectives. *(new)*

7. MDE and CEPI will collaborate with districts and educational associations to develop and implement processes to “build a culture of quality data” at the local level, that includes processes to ensure the accuracy, timeliness, security, and utility of educational data.

Michigan Educational Technology Plan Goal 5: Data and Information Management

GOAL 5: DATA AND INFORMATION MANAGEMENT

Every Michigan educator will have access to data for effective classroom decision making and school improvement planning through an integrated local and statewide decision support system and have access to professional learning opportunities to develop competencies in data-driven decision making. *(4.0.0)*

Goal 5, Strategy 1:

Simplify the process of data collection for compliance, reporting, and decision support from the classroom, building, district, and regional levels to the state. *(4.1.0)*

Performance Indicator:

MDE, CEPI, ISD, and district staff members will be able to log on to secure online systems to efficiently and effectively submit and retrieve data used in state and federal reporting through easy-to-use environments. *(4.1.0)*

Goal 5, Strategy 1, Action Steps:

1. MDE and CEPI will continue to work with local school districts, ISDs, and other state agencies to identify and remove duplicative data collections and pre-populate data collections for which data already exists. *(4.1.1)*
2. MDE and CEPI will continue to work with local school districts and state agencies to integrate multiple data source systems into the Michigan Student Data System (MSDS) and align data collection calendars to streamline the data collection process. *(4.1.2)*
3. MDE and CEPI will continue to collaborate with ISDs to ensure system interoperability by creating common formats of data elements shared at the federal, state, and district levels. *(4.1.3)*

Goal 5, Strategy 2:

Continue to build a pre-kindergarten to post-secondary Longitudinal Data System (LDS) by identifying, connecting, and combining educational data elements in meaningful ways across various sources (e.g., personnel, financial, crime and safety, schools/facilities, and student data, including assessment information and results). This data system will be structured longitudinally so that policymakers, administrators, educators, and other stakeholders have the information they need to increase efficiency and improve student academic achievement. *(4.2.0)*

Performance Indicator:

Through a collaboration of state agencies, MDE and CEPI will implement a comprehensive educational data management and decision support system that will meet federal and state reporting requirements and timelines, while providing MDE, districts, ISDs, and education researchers with access to high quality, longitudinal data to inform policy and practice. *(4.2.0)*

Michigan Educational Technology Plan Goal 5: Data and Information Management

Goal 5, Strategy 2, Actions Steps:

1. MDE and CEPI, in collaboration with ISDs, will continue to fund and seek additional funding for state longitudinal data systems that will provide primary decision support functionality for districts and ISDs. *(4.2.1)*
2. MDE and CEPI, in collaboration with ISDs, will continue to ensure that longitudinal and vertical integration between the state and local decision support systems is implemented by ISDs and districts. *(4.2.2)*
3. MDE and CEPI will revise existing Registry of Educational Personnel (REP) data system to support the collection and reporting of the status of highly-qualified teachers in Michigan's classrooms. The revised REP will provide districts, policymakers, and education researchers with data to inform teacher policy and practice, including measuring teacher supply and demand, which requires extending Unique Identification Codes (UICs) to teachers and pre-service teacher candidates. *(4.2.7)*
4. MDE and CEPI will continue working with state agencies, community colleges and higher education institutions, and local districts to extend UICs for students and educational personnel across educational data systems, including pre-kindergarten through post-secondary, and use these identification codes to track data longitudinally. *(4.2.7)*
5. MDE will explore requiring the State's higher education institutions with approved teacher preparation programs to integrate the PK-12 UIC into their student record systems for the purpose of improving data collection on post-secondary success and the preparation of pre-service teachers. *(New)*
6. MDE will explore requiring the State's community colleges to integrate the PK-12 UIC into their student record system for the purpose improving data collection on post-secondary success and Michigan's career and technical education programs. *(New)*

Michigan Educational Technology Plan Goal 5: Data and Information Management

Goal 5, Strategy 3:

MDE and CEPI will continue to develop means of timely return of “connected” data to all education stakeholders, as well as supporting and sponsoring professional learning opportunities to help them understand how to use the data to improve student achievement. *(4.3.0)*

Performance Indicator:

Educators and stakeholders will have access to high quality, timely data and use that data effectively for classroom decision-making and the allocation of resources across schools/facilities, districts, Michigan, etc., for the purpose of improving teaching and learning. *(4.3.0)*

Goal 5, Strategy 3, Action Steps:

1. MDE and CEPI will sponsor regional data initiatives to increase the number of local districts and educators who have access to and use data to inform their practice and improve student achievement. These regional data initiatives will provide educators, particularly classroom teachers, with connections between data, tools, and professional learning opportunities for differentiated and individualized instruction. *(4.3.2)*
2. MDE and CEPI will seek opportunities to leverage the regional data initiatives for streamlining state and federal reporting, linking regional initiatives into the state’s Longitudinal Data System, and disseminating state-collected data back to the district and classroom. *(new)*
3. MDE and CEPI will work collaboratively with ISDs, REMCs, and other education associations to develop and provide professional learning opportunities for Michigan educators and MDE staff on how to use data effectively for classroom decision making. *(4.3.1, 4.3.3)*

**Michigan Educational Technology Plan
Appendix 1**

EDUCATIONAL TECHNOLOGY ADVISORY GROUP MEMBERS

Roger Ashley, Executive Director,
Michigan Association of Media in
Education (MAME)

Thomas Bell, Higher Education
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Preparation Services

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Michael Rice, Technology Director, Kent Intermediate School District

David Schulte, Associate Superintendent, Shiawassee Regional Education Service District

David Seitz, Manager, Strategic Initiatives, Apple, Inc.

Ron Sniderman, Executive Director, Instructional Media & Technology Services, Wayne Regional Education Service Agency

Patricia Talbott, Higher Education Consultant, MDE Office of Career and Technical Education

Sally Vaughn, Chief Academic Officer, Michigan Department of Education (MDE)

Mike Wahl, (former) Executive Director, Michigan Community College Association (MCCA)

Ric Wiltse, Executive Director, Michigan Association for Computer Users in Learning (MACUL)

Bill Witt, Consultant, MDE Office of Education Improvement and Innovation

**MDE Office of Education
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Michigan Educational Technology Plan Appendix 2

GLOSSARY OF TERMS

CEPI	Center for Educational Performance and Information
CEU	Continuing Education Unit
ETAG	Educational Technology Advisory Group
GLCE	Grade Level Content Expectations
HSCE	High School Content Expectations
ISD	Intermediate School District
LEA	Local Education Agencies
MACUL	Michigan Association for Computer Users in Learning
MCF	Michigan Curriculum Framework
MDE	Michigan Department of Education
MEL.org	Michigan eLibrary
METS-S	Michigan Educational Technology Standards for Students
MORE	Michigan Online Resources for Educators
MSIF/SIF	(Michigan) School Improvement Framework
MVU	Michigan Virtual University
NCLB	No Child Left Behind
NETS-A	National Educational Technology Standards for Administrators
NETS-T	National Educational Technology Standards for Teachers
REMC	Regional Educational Media Center
REMCAM	Regional Educational Media Centers Association of Michigan
RESA	Regional Educational Service Area
STEM	Science, Technology, Engineering, and Mathematics
UDL	Universal Design for Learning
USDE	United States Department of Education

Progress Review: 2006 State of Michigan Educational Technology Plan

In March 2006, the State Board of Education approved the State of Michigan Educational Technology Plan, which the Department of Education (MDE) used as an implementation guide for increasing the capacity of schools, libraries, educators, students, and stakeholders to effectively use educational technology and data to improve student academic achievement. In October 2009, MDE recommended to the State Board an update to the 2006 Plan based on its overall goals and objectives.

This review document provides the State Board of Education and other stakeholders with a brief review of the 2006 goals, strategies, and action steps, the status of each, and if incorporated, where these items can be found in the 2010 Plan.

This report was prepared by the Educational Technology and Data Coordination unit of the Office of Education Improvement and Innovation, Michigan Department of Education.

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 1 – Leadership</i> Michigan will provide leadership for educational technology in order to expand and develop transformative learning environments that increase student achievement.</p>	<ul style="list-style-type: none"> • <i>Moved to “Goal 2 – Leadership” to match Michigan SIF</i> • <i>Ongoing</i> • <i>Language updated</i>
<p><i>Goal 1, Strategy 1</i> Strengthen and coordinate leadership for educational technology at the state level.</p> <p><i>Performance Indicator</i> The Coalition for Educational Technology and a high level Michigan Department of Education (MDE) leadership position in educational technology are in place.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i> 1. MDE will establish a position of Chief Educational Technology Officer, reporting at a top level in the organization, to provide leadership in the field of educational technology.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. MDE will create an advisory group, called the “Coalition for Educational Technology,” comprised of representatives from statewide organizations, higher education, and professional associations to facilitate the coordination of technology initiatives and programs to benefit students and educators.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. The Chief Educational Technology Officer will lead the Coalition for Educational Technology and utilize it as the key group for guiding and coordinating the implementation of this plan, including its evolution and updating throughout its stated period.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>4. MDE will encourage cooperation and coordination between and among the ISDs and local districts to leverage educational technology resources.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
5. The State Superintendent will examine ways to enhance communication and coordination between MDE and other state agencies to ensure effective implementation of statewide technology projects.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Merged into more specific areas of work</i>
<p><i>Goal 1, Strategy 2</i></p> <p>All Michigan educators will achieve Michigan Educational Technology Standards for Teachers (METS-T) or Michigan Educational Technology Standards for Administrators (METS-A) proficiency.</p> <p><i>Performance Indicator</i></p> <p>All Michigan educators will demonstrate METS-T or METS-A proficiency.</p>	<ul style="list-style-type: none"> • <i>Moved to Goal 3, Strategy 1</i> • <i>Achieved (Seventh standard, Michigan Professional Standards for Teachers)</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <p>1. The State Board of Education will adopt a set of state standards for technology literacy for teachers and administrators.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. Professional learning activities aligned with the Michigan Educational Technology Standards will be offered across the state on a regional basis to enable educators to increase their knowledge and effective use of educational technology resources to improve achievement. A special emphasis will be placed on the knowledge and use of assistive technology and universal design.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. MDE will develop a program to recognize exemplary educational technology leaders who model and apply technology in support of student learning and achievement.</p>	<ul style="list-style-type: none"> • <i>Removed</i> • <i>Note: MACUL already has a similar program.</i>

2006 Goal, Strategy, and Action Steps

Goal 1, Strategy 3

Coordinate the development of rubrics for assessing teacher use of technology delivering instruction, including the use of assistive technology and the philosophy of Universal Design for Learning (UDL), ensuring information literacy, and managing instruction to improve student achievement.

Performance Indicator

Rubrics will be established to provide degrees of proficiency for the effective teacher use of technology to deliver instruction, including assistive technology and the philosophy of Universal Design for Learning, ensuring information literacy, and managing instruction to improve student achievement.

Action Steps

1. MDE will invite representatives of statewide professional associations and organizations, and higher education to participate in the development of rubrics for assessing teacher use of technology delivering instruction, including assistive technology and the philosophy of UDL, ensuring information literacy, and managing instruction to improve student achievement.
2. MDE will identify and recognize model school districts that have implemented the rubrics to advance student achievement.
3. MDE will identify model school districts that have implemented the rubrics and whose school leaders and policy makers demonstrate their active support of information literacy skill development as key to student achievement, professional learning, enhanced productivity, and preparation for lifelong learning.

Status

- *Merged with Goal 3, Strategy 1*
- *Work ongoing*
- *Language updated*

- *Work ongoing*
- *Language updated*

- *Removed; MDE is moving away from recognition programs.*

- *Removed; MDE is moving away from creating recognition programs.*

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 1, Strategy 4</i> Generate model processes to assist school districts in developing a knowledge base for building and sustaining their capacity for systematic technology acquisition, integration, and replacement.</p> <p><i>Performance Indicator</i> Model processes will exist to enable school districts to develop a knowledge base for building and sustaining their capacity for systematic technology acquisition, integration, and replacement.</p>	<ul style="list-style-type: none"> • <i>Integrated into Goal 2, Strategies 2 and 3</i> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <ol style="list-style-type: none"> 1. The Coalition will develop model processes to assist school districts to systematically acquire, integrate, and replace educational technology. 2. The Coalition will identify and design professional learning opportunities to help school board members understand the importance of utilizing educational technology as a tool for student learning and to administer school districts. 	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i> • <i>Moved to help create "Goal 4: School and Community Relations"</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal 2 – Digital Citizenship</i> Every Michigan student will be proficient in technology and will demonstrate the ethical use of technology as a digital citizen and lifelong learner.</p>	<ul style="list-style-type: none"> • <i>Moved to "Goal 1 – Teaching for Learning"</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 2, Strategy 1</i> Develop for students a digital citizenship definition and curriculum for state-wide use that are aligned with Michigan Curriculum Framework (MCF) benchmarks, Grade Level Content Expectations (GLCEs) and Michigan Educational Technology Standards (METS).</p> <p><i>Performance Indicator</i> All students will demonstrate proficiency in digital citizenship and ethical use of technology and information allowing them to become lifelong learners.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <ol style="list-style-type: none"> 1. Michigan Digital Citizenship Curriculum will be developed supporting the delivery of the Michigan Curriculum Frameworks (MCF), and the Grade Level Content Expectations (GLCEs). 2. The Michigan Digital Curriculum will be evaluated and adjusted annually. 	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i> • <i>Removed; call for separate curriculum runs opposite to technology integration goals.</i>
<ol style="list-style-type: none"> 3. The Michigan Digital Citizenship Curriculum should embody a broad awareness of other cultures from a global perspective. <p><i>Goal 3 – Student Learning</i> Every Michigan student will have meaningful technology-enabled learning opportunities based on research and best practice that include virtual learning experiences.</p>	<ul style="list-style-type: none"> • <i>Removed; call for separate curriculum runs opposite to technology integration goals.</i> • <i>Moved to “Goal 1: Teaching for Learning”</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 3, Strategy 1</i> Identify and disseminate meaningful technology-enabled strategies to improve student achievement and learning in a global society.</p> <p><i>Performance Indicator</i> All students are provided meaningful technology-enabled learning opportunities.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i> 1. MDE will identify and disseminate best practices in technology-enabled teaching and learning environments that will include the use of assistive technology and Universal Design for Learning.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. MDE will encourage research and evaluation to produce data that focuses on the growing use of Internet-based teaching and learning environments by educators and students.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. The Coalition will identify areas where technology demonstrates promise in increasing or improving student achievement through the effective and efficient use of data.</p>	<ul style="list-style-type: none"> • <i>Removed; redundant</i>
<p>4. MDE and the Coalition will work with Michigan colleges and universities in partnerships with classroom teachers to research and explore a variety of customized and individualized delivery systems, including e-learning, virtual schools, simulations, and action game delivery systems.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p>5. The Coalition will bring together groups that will work collaboratively in identifying technology-based test preparation tools that integrate student assessments, self-paced instructional content and educator resources aligned to state standards and content expectations.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 3, Strategy 2</i> Provide the necessary resources for a meaningful technology-enabled learning environment for all students.</p> <p><i>Performance Indicator</i> All students will have ubiquitous access to technology, assistive technology, and information resources throughout their learning day.</p>	<ul style="list-style-type: none"> • <i>Moved and combined into Goal 1, Strategies 2 and 4</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <ol style="list-style-type: none"> 1. MDE will support the development of a plan to enable ubiquitous student and teacher access to technology, assistive technology, and information resources by identifying and utilizing state, national, and international best practices in technology-enabled learning environments and UDL. 2. MDE will emphasize the infusion of educational technology, including assistive technology devices and services, throughout the newly required high school curriculum recommended by the State Board of Education. 	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language used to strengthen other areas of the 2010 plan</i> • <i>Achieved</i> • <i>Language updated</i>
<p><i>Goal 3, Strategy 3</i> All students will have the opportunity to participate in real-life experiences associated with technology-related careers.</p> <p><i>Performance Indicator</i> Students will be provided opportunities to develop technical expertise to compete in a global marketplace.</p>	<ul style="list-style-type: none"> • <i>Moved and combined into Goal 1, Strategies 2 and 3</i> • <i>Achieved</i> • <i>Ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <ol style="list-style-type: none"> 1. MDE, in partnership with other agencies, will develop and support technology mentorship programs to empower students in real-life experiences and provide community/school service credit. 2. The Coalition will work with ISDs and Regional Educational Service Agencies (RESAs) to develop mentoring programs for students that offer technology related certifications. 	<ul style="list-style-type: none"> • <i>Removed</i> • <i>Removed</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 3, Strategy 4</i></p> <p>Promote and support the expectation that every student in Michigan, including students with special needs, be provided with the opportunity to learn in a virtual environment as a strategy to build 21st century learning skills.</p> <p><i>Performance Indicator</i></p> <p>Prior to graduation from high school, every Michigan student will benefit from learning and using technology-based virtual tools and resources such as those required to complete an online course for credit or non-credit or complete an online learning experience.</p>	<ul style="list-style-type: none"> • <i>Moved to Goal 1, Strategy 3</i> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <p>1. MDE, MVHS and other providers, MACUL, the REMC Association, and others will actively promote the value of virtual learning environments to educators, parents, students, and policy makers.</p>	<ul style="list-style-type: none"> • <i>Removed; language was too ambiguous.</i>
<p>2. The Coalition will prepare a feasibility study to determine the value of developing an online international academy to foster global ... educational opportunities, including language and cultural experiences, for Michigan's students.</p>	<ul style="list-style-type: none"> • <i>Removed; focus shifted to providing all students with online learning.</i>
<p>3. As recommended by the State Board of Education, every Michigan student will complete at least one on-line credit or non-credit course or learning experience in order to graduate.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Language strengthened</i>
<p>4. MDE will adopt and implement flexible policies that facilitate the role of the MVHS and other providers to deliver Michigan-based as well as global online learning opportunities for Michigan's schools.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language strengthened</i>
<p>5. MDE, working in collaboration with MVHS and other statewide organizations, will provide and coordinate state, national, and global distance learning opportunities.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 4 – Data Driven Decisions</i> Every Michigan educator will use data effectively for classroom decision making and school improvement planning through an integrated local and statewide decision support system.</p>	<ul style="list-style-type: none"> • <i>Moved to “Goal 5: Data and Information Management”</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal 4, Strategy 1</i> Simplify the process of data collection for compliance and decision support at all levels, from the classroom to the state.</p> <p><i>Performance Indicator</i> ISD, LEA, and PSA staff members will be able to log on to a secure online system and submit data to the state through an easy-to-use environment.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i> 1. The Center for Educational Performance and Information (CEPI) will work with local school districts and other state agencies to identify duplicative sources of data collection.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. CEPI will work with local districts and state agencies to integrate multiple data source systems and align data collection calendars to streamline the data collection process and reduce duplicative data reporting.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. CEPI will work with state agencies and local districts to extend unique identification codes for student and educational personnel across educational data source systems, including pre-kindergarten through university/college/adult education students, and use these identification codes to track data longitudinally over time.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p>4. CEPI, state agencies, and local districts will work together to exchange data to pre-populate data collection source systems to help eliminate duplicative data entry.</p>	<ul style="list-style-type: none"> • <i>Removed; redundant</i>

2006 Goal, Strategy, and Action Steps	Status
5. CEPI will provide role-based, secure access to appropriate data from a single web site for specific users such as teachers, parents, and administrators.	<ul style="list-style-type: none"> • <i>Moved to "Goal 4: School and Community Relations"</i> • <i>Work ongoing</i> • <i>Language updated</i>
6. CEPI will collaborate with ISDs to ensure system interoperability by creating common formats of data elements shared at the federal, state, and district levels.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Removed</i>
7. CEPI, with vendors, ISDs, and the Department of Information Technology (DIT), will collaborate to automate connections between databases to replace manual updates by 2008.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Language removed</i>
<p data-bbox="170 625 1039 657"><i>Goal 4, Strategy 2</i></p> <p data-bbox="170 657 1039 812"><i>Identify, connect, and combine educational data elements in meaningful ways across various sources (e.g., personnel, financial, crime and safety, schools/facilities, and student data including assessment information and results) and longitudinally over time so that administrators and educators have the information they need to increase efficiency and improve student learning.</i></p> <p data-bbox="170 836 1039 868"><i>Performance Indicator</i></p> <p data-bbox="170 868 1039 998"><i>A collaboration of State of Michigan agencies, led by CEPI, will plan and implement a comprehensive educational data management and Decision Support System (DSS) that will meet federal and state reporting requirements and timelines.</i></p>	<ul style="list-style-type: none"> • <i>Moved to Goal 5, Strategy 2</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p data-bbox="170 1112 1039 1144">Action Steps</p> <p data-bbox="170 1144 1039 1274">1. CEPI will establish a plan to integrate the data systems necessary to educational decision support so that administrators and educators have the information they need to increase efficiency and improve student learning.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
2. CEPI will gather requirements from stakeholders to identify and include data elements that should be connected and stored longitudinally, as well as the data outputs and reports that are critical to data driven decision making to set policy and ensure appropriate resource allocation to improve student achievement.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language incorporated into action step 5.2.2</i>
3. CEPI, in collaboration with ISDs, will secure funding for a state-level longitudinal educational Decision Support System (DSS) that will provide primary DSS functionality for districts and ISDs that do not have local systems.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language incorporated into action step 5.2.1</i>
4. CEPI, in collaboration with ISDs, will ensure that there is vertical integration between the state and local DSS implemented by ISD and LEA districts.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
5. CEPI, in collaboration with other state agencies, will connect and combine student assessment data in the state-level DSS to meet the 2007 NCLB longitudinal assessment requirements.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Removed</i>
6. CEPI, in collaboration with other state agencies, will connect and combine Single Record Student Database (SRSD) data to enable the calculation of a four-year cohort graduation and dropout rate to meet Michigan's NCLB accountability timeline for 2007.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Removed</i>
7. CEPI, in collaboration with state agencies and ISDs, LEAs, and PSAs, will revise existing educational personnel data systems to support the collection and reporting to ensure that highly qualified teachers are in Michigan's classrooms to meet NCLB requirements.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
8. CEPI, in collaboration with ISDs, LEAs, PSAs, Michigan's teacher preparation institutions, and other state agencies (e.g., Office of Retirement Services) will work to integrate data sources that can be used to assess teacher supply and demand.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 4, Strategy 3</i></p> <p>Provide timely return of “connected” data to all educational stakeholders as well as professional learning opportunities to help them understand how to use the data to improve student achievement.</p> <p><i>Performance Indicator</i></p> <p>Every educator and educational stakeholder will have access to high quality, timely data and use that data effectively for classroom decision making and the allocation of resources across schools/facilities, districts, and the state for the purpose of improving teaching, learning, and setting educational policy.</p>	<ul style="list-style-type: none"> • <i>Moved to Goal 5, Strategy 3</i> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>Action Steps</p> <p>1. CEPI will work collaboratively with other state agencies, ISDs, REMCs, education associations, and grant-funded projects to develop and provide professional learning opportunities for MDE staff and educators on how to use data effectively for classroom decision making and school improvement planning.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. Educators will use assessment results in determining needs for differentiating student instruction.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. CEPI and other state agencies will work with educational stakeholder associations to develop and provide professional learning opportunities for Michigan administrators for using data from both administrative and instructional systems to understand relationships between decisions, allocation of resources, and student achievement.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language combined with action step 5.3.3</i>
<p>4. CEPI, MDE, and other state agencies will collaborate with educational stakeholders including parents, policymakers, and the general public to build data tools and reports to help them understand available educational data and the relationship between decisions, allocation of resources, and student achievement.</p>	<ul style="list-style-type: none"> • <i>Moved to Goal 4: School and Community Relations</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 5 – Professional Learning</i> Every Michigan educator will have the technology competencies to enable the transformation of teaching and learning to improve student achievement.</p>	<ul style="list-style-type: none"> • <i>Moved to “Goal 3 – Professional Learning”</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal5, Strategy 1</i> Provide professional learning opportunities for all educators related to integrating technology, focusing on improving student learning and meeting the Michigan Educational Technology Standards for Teachers (METS-T) and the No Child Left Behind requirements.</p> <p><i>Performance Indicator</i> All educators are trained to routinely use a core body of technologies that align with standards (METS-T) that support student learning, and technology systems for analysis of data to make data-driven decisions which enhance student learning.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i> 1. Educational technology should be infused in all professional learning activities whenever appropriate.</p>	<ul style="list-style-type: none"> • <i>Removed; ambiguous</i>
<p>2. Under the leadership of MDE and the Coalition, a needs assessment will be developed/identified regarding technology competencies of teachers and administrators based on the METS. Funding will be sought to implement a state-wide assessment.</p>	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. The Coalition will advocate for a revision of the Michigan School Code to include a portion of the required professional development for teachers and administrators be dedicated to developing and enhancing technology integration competencies for improving student learning.</p>	<ul style="list-style-type: none"> • <i>Removed; focus placed on activities with MDE’s scope of responsibilities.</i>
<p>4. A representative from the Coalition will serve on the MDE Professional Development Strategic Planning Committee.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Removed</i>

2006 Goal, Strategy, and Action Steps	Status
5. MDE will provide for educators an electronic “Individualized Professional Learning Portfolio” including educational technology activities (e.g. Michigan LearnPort).	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
6. MDE will collaborate with statewide groups in the development of ongoing professional development in technology proficiency and curriculum integration.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
7. MDE will provide professional learning opportunities relating to the collection and use of student data for decision-making related to student achievement.	<ul style="list-style-type: none"> • <i>Removed; duplicative</i>
8. The Coalition will develop a technology mentoring infrastructure with educators mentoring educators in supporting the utilization of technology and troubleshooting technology in the classroom.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Removed</i>
9. MDE will pursue policies that foster the expansion of online professional learning opportunities for all educators and support personnel through online portals such as Michigan LearnPort.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
10. Funding for the continuation of Michigan Teacher Network will be provided.	<ul style="list-style-type: none"> • <i>Removed</i>
11. Educators will use technology resources that are identified and included on the Michigan Teacher Network as supported and aligned with the Michigan Curriculum Framework (MCF), METS, and the Grade Level Curriculum Expectations (GLCE).	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Removed; similar language found in other action steps.</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 5, Strategy 2</i></p> <p>Provide administrators with ongoing professional learning opportunities that will meet the Michigan Educational Technology Standards for Administrators (METS-A).</p> <p><i>Performance Indicator</i></p> <p>Administrators and other curriculum/instructional leaders demonstrate skill in assisting and supporting teachers to integrate technology that maximizes student learning.</p>	<ul style="list-style-type: none"> • <i>Removed; language broadened to include all educators</i>
<p><i>Action Steps</i></p> <ol style="list-style-type: none"> 1. MDE, in collaboration with ISDs, REMCs, colleges, universities, and professional organizations, will create and deliver professional learning opportunities for administrators that will be based on the METS-A. 2. The Coalition will advocate for leadership for technology integration supporting improved student learning within administrator preparation programs. 3. Members of the Coalition will meet with deans and directors of schools of higher education to urge them to enhance the technology preparation of school leaders. 4. Members of the Coalition will work with administrative professional associations to coordinate sessions at their annual conferences and regional learning forums. 	<ul style="list-style-type: none"> • <i>Removed; language broadened to include all educators</i>
<p><i>Goal 5, Strategy 3</i></p> <p>Ensure that teacher preparation institutions are preparing all teacher candidates to successfully utilize technology to improve student learning through mastery of the Entry Level Standards for Michigan Teachers (7th Standard).</p> <p><i>Performance Indicator</i></p>	<ul style="list-style-type: none"> • <i>Combined into Goal 3, Strategy 1</i>

All teacher candidates demonstrate skills in utilizing technology, including assistive technology, to improve student learning prior to certification.

2006 Goal, Strategy, and Action Steps	Status
<i>Action Steps</i>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Removed</i>
1. MDE and the Consortium for Outstanding Achievement for Teaching with Technology (COATT) will develop models for effective implementation of the 7th Standard in teacher preparation programs and methods to evaluate the technology integration skills of teacher candidates.	
2. MDE will work with state teacher preparation institutions to integrate online learning in their programs and to prepare their graduates to understand online learning.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language strengthened</i>
3. MDE will provide funding for the continuation of COATT.	<ul style="list-style-type: none"> • <i>Removed</i>
4. The State Board of Education will require institutions of higher education that prepare teachers to ensure that all graduates are proficient in the use of assistive technology and the theory of Universal Design for Learning to meet the learning needs of all students.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
<i>Goal 5, Strategy 4</i>	<ul style="list-style-type: none"> • <i>Moved to Goal 3, Strategy 3</i>
Provide professional learning activities for Michigan Department of Education staff relating to technology integration.	
<i>Performance Indicator</i>	
MDE staff attends technology integration professional learning activities.	
<i>Action Steps</i>	<ul style="list-style-type: none"> • <i>Removed</i>
1. Members of the Coalition will provide a series of monthly (beginning 2006-2007 school year) "Lunch and Learn" technology presentations inviting all MDE staff.	
2. During the 2007-2008 and 2008-2009 school years, the Coalition will facilitate workshops on specific technology integration topics for the MDE staff.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
3. The Coalition will provide ongoing consultation and assistance for key MDE staff.	<ul style="list-style-type: none"> • <i>Removed</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 6 – Broadband Access</i> Every Michigan classroom will have broadband Internet access to enable regular use of worldwide educational opportunities.</p>	<ul style="list-style-type: none"> • <i>Integrated into “Goal 2 – Leadership”</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal 6, Strategy 1</i> Provide broadband access to all classrooms by creating partnerships with state organizations, educational agencies, and providers, and expand outreach efforts to schools encouraging them to apply for eRate funding.</p> <p><i>Performance Indicator</i> Every classroom has a minimum of 1.5MB connectivity to each computer device.</p>	<ul style="list-style-type: none"> • <i>Integrated into “Goal 2 – Leadership”</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <ol style="list-style-type: none"> 1. The Coalition, in conjunction with various State of Michigan agencies, will encourage providers to offer local school districts equitable and affordable broadband access to each building and classroom. <hr/> <ol style="list-style-type: none"> 2. MDE will establish partnerships with the appropriate state and local agencies to acquire grants and private and federal resources for narrowband schools to expand access to and use of broadband technology. <hr/> <ol style="list-style-type: none"> 3. MDE will collaborate with REMCs and ISDs on outreach to schools, informing them of eRate opportunities. 	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i> <hr/> <ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language incorporated into action step 2.2.3</i> <hr/> <ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal 6, Strategy 2</i> Provide broadband access to global resources for students after school.</p> <p><i>Performance Indicator</i> Every student will have access to broadband Internet through multiple locations.</p>	<ul style="list-style-type: none"> • <i>Integrated into “Goal 2 – Leadership”</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Action Steps</i></p> <p>1. The Coalition will encourage ISDs and local districts and governments to create partnerships with Internet service providers to provide students and educators either free or low cost access in the community to Internet resources in an effort to support the classroom activities occurring during the instructional day. Community wireless projects are meant to supplement, not replace, the school's secure infrastructure.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. The Coalition will encourage ISDs and local districts to create partnerships with higher education, libraries, and community centers to provide students/educators Internet access in the community.</p>	<ul style="list-style-type: none"> • <i>Removed</i>
<p><i>Goal 7 – Shared Resources</i></p> <p>Every Michigan educator and learner will have equitable and sustained access, through statewide coordination and support, to resources necessary to transform teaching and learning through educational technology.</p>	<ul style="list-style-type: none"> • <i>Integrated into Goal 2-Leadership</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal 7, Strategy 1</i></p> <p>Provide statewide access to educational technology resources for the purpose of transforming teaching and learning.</p> <p><i>Performance Indicator</i></p> <p>All educators and learners access and routinely use high quality online resources as part of the teaching and learning process.</p>	<ul style="list-style-type: none"> • <i>Integrated into Goal 2-Leadership</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i></p> <p>1. MDE will work with the REMC Association and other state agencies to provide Michigan schools with universal access to high quality digital instructional content by negotiating statewide licensing agreements.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
2. The Coalition and relevant stakeholders will work to establish and maintain a statewide multipoint, interactive video conferencing system.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>
3. The Coalition will work to establish a web portal that supports all educators in the transformation of education through technology. The portal will be easily accessible and support such items as: curriculum and lesson materials, professional development, research to support educational technology, and technology resources correlated to the Michigan Curriculum Framework and Grade Level Content Expectations, (e.g., LearnPort and Michigan Teacher Network).	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Language is incorporated in other goal areas and action steps.</i>
4. MDE, MVU, and the Michigan Department of Labor and Economic Growth will work collaboratively with Michigan's education community to design and develop an online General Educational Development (GED) program.	<ul style="list-style-type: none"> • <i>Removed; MDE's focus is on Michigan Merit Curriculum requirements.</i>
<p><i>Goal 7, Strategy 2</i> Coordinate and provide statewide resources for technology support so that teaching and learning can be transformed seamlessly.</p> <p><i>Performance Indicator</i> All educators have access to and regularly use technology support, including local and statewide resources.</p>	<ul style="list-style-type: none"> • <i>Removed; beyond MDE scope</i>
<p><i>Action Steps</i></p> <p>1. The Coalition in collaboration with vendors will provide access to online resources to provide effective and efficient means to resolve technical issues on commonly used software and hardware packages.</p>	<ul style="list-style-type: none"> • <i>Removed; beyond MDE scope</i>
2. The Coalition will review and update the Technical Staffing Guidelines to support innovative educational opportunities in the classroom while still maintaining established educational technology programs.	<ul style="list-style-type: none"> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 8 – Funding</i> Michigan will develop innovative methods of funding to transform and sustain teaching and learning through educational technology and build local, regional, and statewide capacity.</p>	<ul style="list-style-type: none"> • <i>Integrated into “Goal 2 – Leadership”</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Goal 8, Strategy 1</i> The Michigan Department of Education (MDE) will provide seed money for developing innovative technology enhanced programs.</p> <p><i>Performance Indicator</i> Funding from the Michigan Department of Education is provided to develop and disseminate information on innovative educational programs that demonstrate impact on student learning.</p>	<ul style="list-style-type: none"> • <i>Integrated into “Goal 2 – Leadership”</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i> 1. MDE will secure funding for a statewide web portal that supports curriculum, lesson materials, professional learning, and research.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>2. State funds will be identified to support educational technology grants that develop new initiatives, and support innovative programs and professional learning opportunities.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p>3. State funds will be identified to support grants for educational technology that develop new initiatives through a “revolving loan program,” which would allow districts to borrow state money to purchase technologies for innovative educational programs.</p>	<ul style="list-style-type: none"> • <i>Removed; state financial situation makes action step unlikely</i>
<p>4. MDE and the Coalition will work to foster innovative projects aligned with the plan and utilizing educational technology by establishing partnerships with educators, university/college researchers, and corporate advocates of educational technology to propose and carry out projects with grant funding from federal agencies and/or private foundations.</p>	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>

2006 Goal, Strategy, and Action Steps	Status
<p><i>Goal 8, Strategy 2</i> Provide funding to help schools identify, adopt, and begin sustainable exceptional educational technology practices and communicate these findings to all state educators.</p> <p><i>Performance Indicator</i> Schools will be able to identify, adopt, and sustain exceptional programs that use technology that can be funded by long-term resources.</p>	<ul style="list-style-type: none"> • <i>Removed; duplicative with Professional Learning goals</i>
<p><i>Action Steps</i> 1. MDE will assist districts in securing funding to sustain proven innovative projects.</p>	<ul style="list-style-type: none"> • <i>Removed</i>
<p>2. MDE and the Coalition will identify funding for the continued development of existing professional learning opportunities that use technology.</p>	<ul style="list-style-type: none"> • <i>Removed</i>
<p>3. The Coalition will identify training and leadership to assist local schools seeking funding for large-scale transitions of educational technology by: identifying possible funding sources, determining implementation costs, and developing a plan for the long-term support of their educational technology program.</p>	<ul style="list-style-type: none"> • <i>Removed</i>
<p><i>Goal 8, Strategy 3</i> Provide funding to sustain innovation, maintain state and local technology infrastructure, and support effective leadership for proven educational technology programs.</p> <p><i>Performance Indicator</i> Funding is identified to enhance the infrastructure at the state, ISDs/RESA/REMCs and local school district level.</p>	<ul style="list-style-type: none"> • <i>Integrated into "Goal 2 – Leadership"</i> • <i>Work ongoing</i> • <i>Language updated</i>
<p><i>Action Steps</i> 1. MDE will identify state and federal appropriations for statewide projects that have proven to be successful but require ongoing fiscal support.</p>	<ul style="list-style-type: none"> • <i>Removed</i>

2006 Goal, Strategy, and Action Steps	Status
2. The Coalition will assist in the identification and formation of partnerships with business and industry that can help fund educational technology programs in the state.	<ul style="list-style-type: none"> • <i>Removed</i>
3. The Coalition will work with the Legislature to develop a revenue producing vehicle that incorporates the state funding of bonds and other revenue producing means.	<ul style="list-style-type: none"> • <i>Removed</i>
4. The MDE will work with stakeholders to develop and implement a statewide Educational Technology Foundation to fund technology programs.	<ul style="list-style-type: none"> • <i>Removed</i>
5. MDE will encourage, assist, and train all ISDs/RESAs and local school districts to file appropriate eRate forms to receive reimbursements available through this national program.	<ul style="list-style-type: none"> • <i>Language combined into broadband strategy</i>
6. MDE will encourage local school districts and ISDs to continue to utilize cooperative purchasing programs for equipment, supplies, and services.	<ul style="list-style-type: none"> • <i>Achieved</i> • <i>Work ongoing</i> • <i>Language updated</i>
7. MDE will work with the Governor and the State Legislature to establish state-level funding for leadership in educational technology at MDE, including both staff support and funds for grants to ISDs, RESAs, and LEAs and other investments as described in this plan, including the above three funding strategies and associated action steps, to be at least double the current state-level funding from all sources. MDE will seek the input of the Coalition for Educational Technology in identifying priorities for this funding.	<ul style="list-style-type: none"> • <i>Removed</i>