

# **Technology in Wisconsin's Schools**

Slate Conference  
December 2011

# Technology Topics

- Technology Planning
- Professional Learning
- Leadership in Classrooms
- Statewide Information Systems
- Using Data Effectively
- Innovation and Collaboration

# Technology Planning

- WI Digital Learning Strategic Plan
  - State Supt Digital Learning Advisory Council (DLAC)
- District Technology and Media Plans

# State Superintendent's Digital Learning Advisory Council (DLAC)

**Charge** - Provide oversight of all aspects of digital learning in Wisconsin. Develop a comprehensive strategy for digital learning in Wisconsin. Provide recommendations to the State Superintendent on initiatives that promote and advance digital learning.

[DLAC website](#)

# Why a Focus on Technology?

Although 94% of students say that technology skills will improve their educational and career opportunities, just 39% of students say their high school is meeting their technology expectations

(CDW-G 2011 21ST-CENTURY CLASSROOM REPORT)

# DLAC Focus Areas

*What is included in the*

*" state digital learning plan?"*

- Professional Learning and Leadership
- Infrastructure and Hardware
- Policies and Procedures
- Curriculum and Assessment
- Pedagogy and Instruction
- Data and Information Systems

# Professional Learning and Leadership

Alternative professional development options beyond face-to-face including professional learning communities (PLCs) in virtual collaboration spaces

Explore the most critical elements of professional development needed to address the varying needs of our educators and investigate approaches for delivering those services

# Infrastructure and Hardware

Define needs including wireless, broadband, computing devices of all types including mobile technology, and explore how to ensure these are used in all schools

Investigate ways to provide access to broadband and technology in the community including at libraries and within households with students to support learning beyond school and facilitate learning opportunities within entire communities

# Policies and Procedures

Promote technology use to ensure learning is authentic, relevant, and meaningful to students

Model policies that promote responsible, safe and ethical use

Encourage integration of technology in district strategic planning

Address teacher certification and licensing issues related to virtual learning

# Curriculum and Assessment

Focus learning on the most relevant skills that create productive workers and engaged citizens, i.e., collaboration, critical thinking, problem solving

Examine and recommend digital curriculum including digital textbooks, project collaboration tools like wikis, learning management systems, and curriculum mapping systems

Examine and recommend digital tools for formative (e.g., blogs and e-portfolios), benchmark, and summative assessment

# **Pedagogy and Instruction**

Create opportunities to personalize learning for each student using digital tools

Explore and recommend service learning and project based learning through partnerships with businesses, public libraries, and community agencies

Review and promote the best models of offering online courses within a traditional school, hybrid or “brick and click” schools and programs, and stand alone digital schools

# Data and Information Systems

Leverage volume and technology to scale statewide information systems

Promote a secure environment with timely student level data and analysis tools accessible to all teachers, schools, and districts

Explore ways of using unobtrusive performance measures including formative assessments, self-assessments, and social media can be leveraged to inform instructional decision making

# Digital Learning Day

## February 1, 2012

The Digital Learning Strategic Plan rolls out officially on this date.

More details can be found at:

<http://www.digitalllearningday.org/>

# District Technology and Media Plans

How do the Library Media (Information) and Technology programs and services support/advance student achievement?

- Less compliance drive
- More strategically driven

# District Technology and Media Plans

- Align plans to best practices in the statewide digital learning strategic plan being created by the DLAC
- Make the process completely digital, a wiki
- "Refresh" rather than complete rewrite
- Allow plans to be submitted on a rolling calendar basis
- "Tabbed" sections pre-written around key topics
- Encourage consortia planning
- Create a peer review process

# Professional Learning

- Social Networks
- Resource portals

# Social Networks

- Create statewide social networks around instructional technology and other technology used in K-12 and libraries
- Build professional learning communities (PLCs), mechanisms for virtual professional development
- Master calendar of technology related online training and PD sessions produced by DPI and its partners

# Social Networks - Examples

- Alaska Learn <http://aklearn.net/>
- Classroom 2.0 <http://www.classroom20.com/>
- Library 2.0 <http://www.library20.com/>

# Leadership in Classrooms

- Google Apps for Education
- Moodle Learning Management System

# Google Apps in Education

- Signed contract in May

## WI goes Google

- Professional Development and Technical Support

## CESA Supports Google

# Google Apps in Education

- Why Google?
  - Because its free and simple, yet useful
- What do I do with Google in my classroom?
  - Writing journals - Blogger
  - ePortfolios and Class web pages - Sites
  - Collaboration - Docs and Talk

[Ways to Use Google](#)

# Moodle

## Learning Management System

- Implement a statewide instance
- Authenticate to WI educators only
- Use for sharing units, lessons, activities, and assessments across the state, curricular "wikis"
- Connect to Common Core State Standards
- Add open source content
- Create professional learning communities

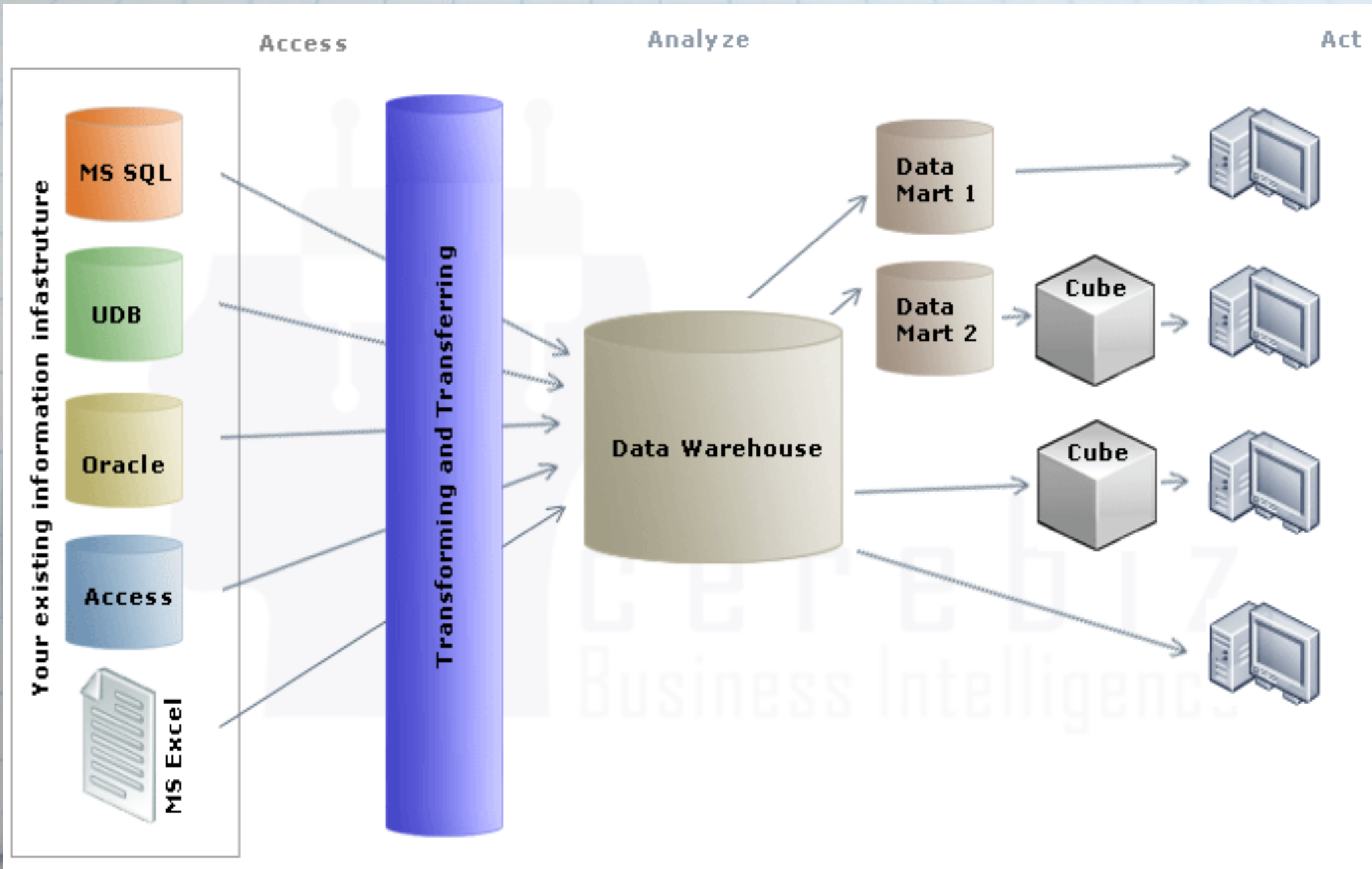
# Statewide Information Systems

- Data Warehouse and Dashboards
- Student Information System

# Data Warehouse and Dashboards

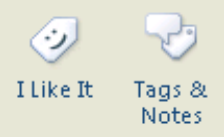
- Signed a contract with Versifit in February
- Using Edvantage system
- Includes data model, data loads, reporting, and dashboards
- Secure data access to the student level
- CESA Support Network coordinating training
- Will eventually replace WINSS for public reporting
- Will eventually have a parent dashboard

# Data Warehousing "Picture"





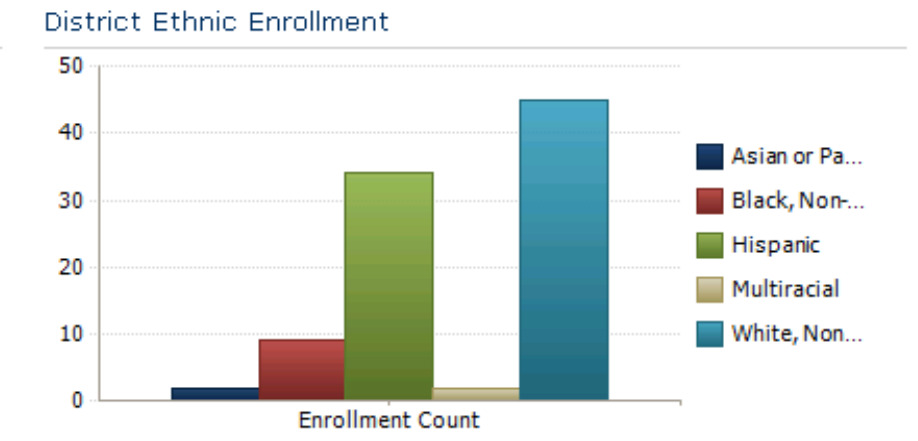
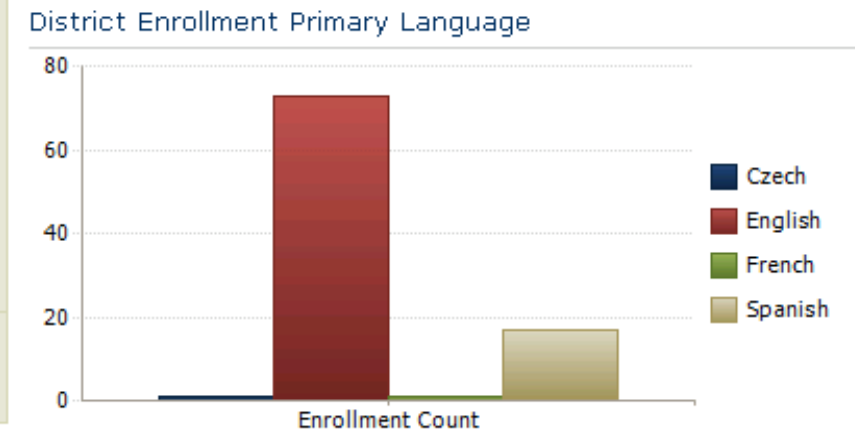
# District Dashboard > District Attendance Report



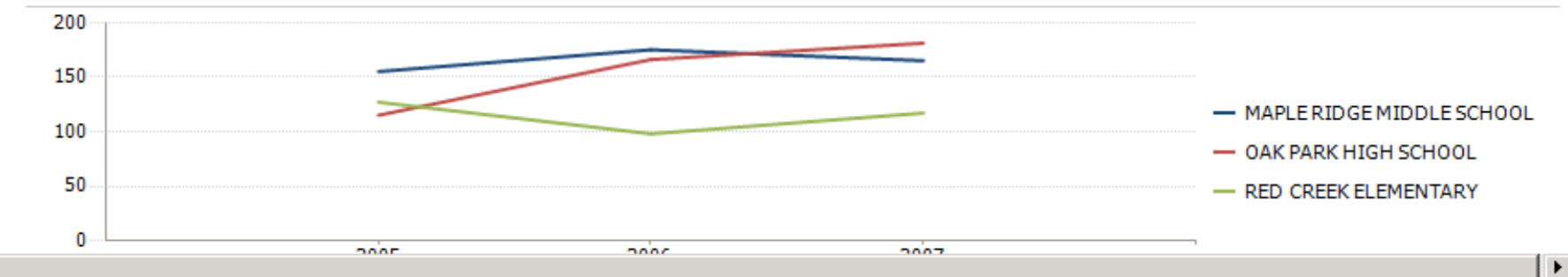
- Contoso District Schools
- District Dashboard
- FAST Search Center
- Teacher Resources
- Wiki
- Dashboards
- Data Connections
- Libraries
- K12Excel
- PerformancePoint Content
- Recycle Bin
- All Site Content

K12 Administration : Administration Dashboard | **District Attendance Report** | District Software Budget | District System Status

District Enrollment Primary Language



## Unexcused Absences Chart by School



# Data Warehouse and Dashboards

For more details please go to:

<http://www.dpi.wi.gov/lds/wk12bi.html>

# What is a Student Information System?

A student information system is the core software for operating a school district.

- Handling the admissions process
- Enrolling new pupils
- Automatically creating class & teacher schedules
- Handling records of tests, assessments, grades and academic progression
- Maintaining records of absences and attendance
- Recording communications with pupils
- Maintaining discipline records
- Providing statistical reports
- Communicating pupil details to parents through a parent portal
- Special education/individualized education program (IEP) services
- Pupil health records

# Why a Statewide SIS?

- Wisconsin is uniquely organized for this sort of solution as a large collection of relatively small districts
- Technology scales well
  - 1,000 vs. 1,000,000 students - same system
- Technology advances (e.g., bandwidth, cloud, SaaS)
- Eliminates repeated tasks every district performs
- Significantly improves data quality
- Ensures equity in such systems across the entire state
- Return on investment under one year (e.g., reporting \$30M+/yr now, license fees should discount sharply)

# Why a Statewide SIS? - (Cont.)

- Immediate access to student data
  - Mobile student populations continuing to increase
  - All students records in SIS would transfer with a single click
  - Teachers and other educators would have information they need for instruction on day 1
  - Other electronic records services could be deployed including electronic transcripts

# SIS Recommendation

- Single software system
- System support model must be included
- Hosting model must be included
- Governance body to be formed
- Timeline for migration to be established

# SIS Timeline

- December - Request for Proposals (RFP) released
- January/February - Product evaluation
- March - Contract signed
- September - First districts implemented

# Using Data Effectively

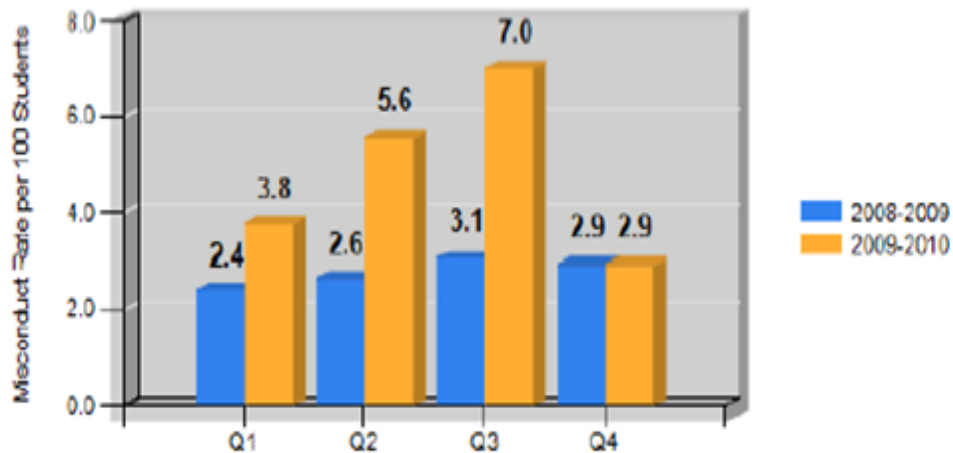
- Data Dashboards
- WI Educational Research Advisory Council

# Data Dashboards - Work Books

## All High Schools Data Worksheet

What is our school-wide misconduct rate per 100 students?

Overall School Misconduct Rate (Level 4-6), by Quarter



	Q1	Q2	Q3	Q4
School Rate (2008-2009)	2.4	2.6	3.1	2.9
School Rate (2009-2010)	3.8	5.6	7.0	2.9
Area Rate (2009-2010)				
District Rate (2009-2010)	1.7	2.6	3.6	1.5
School Misconducts (2009-2010)	2370	3555	3076	2752

### Reflections on This Data

- How has our misconduct rate changed since last year?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- How has our misconduct rate changed throughout this year?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- What other aspects of student behavior may be contributing to misbehavior (eg, low grades, chronic absenteeism, etc.)?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

# WI Educational Research Advisory Council

- State Superintendent appointed
- Members from K-12 including administrators and teachers, higher education, business
- Purpose - Support and facilitate educational research and the use of data to identify and share best practices that directly benefit the students and schools of Wisconsin

# DPI Internal Research Protocol

- Many requests today, many more tomorrow
- Focus research on key agenda topics
- Ensure process is fair and appropriate  
[DPI Internal Research Application](#)

# Innovation and Collaboration

- Moodle for Professional Collaboration
- Software development community

# Moodle for Professional Collaboration

- Statewide version running in the cloud
- Secure and open only to WI educators
- Two purposes:
  - Sharing lessons with other teachers
  - Using with their students in a blended learning environment
- Future: Moodle connects directly SIS, all classroom sections automatically set up for any WI teacher

# Software Development Community

- Create a community across WI that includes districts, CESAs, and other stakeholders
- Build a collaborative partnership to open source tools
- Early opportunity - Dashboards

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