

Wisconsin's Statewide Information Systems

September 2011

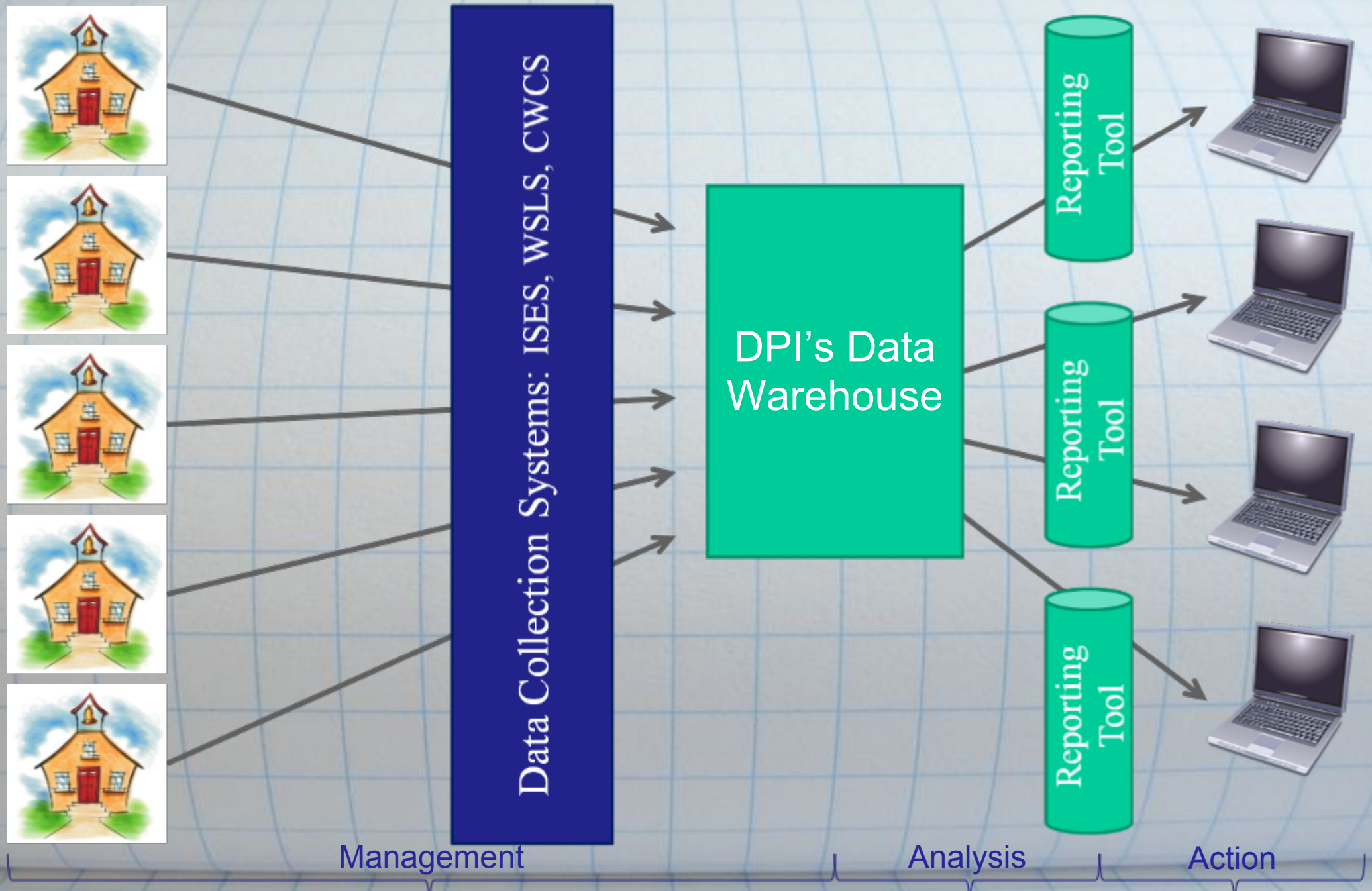
Statewide Information Systems

- Data Warehouse and Dashboards
- Student Information System
- Learning Management System

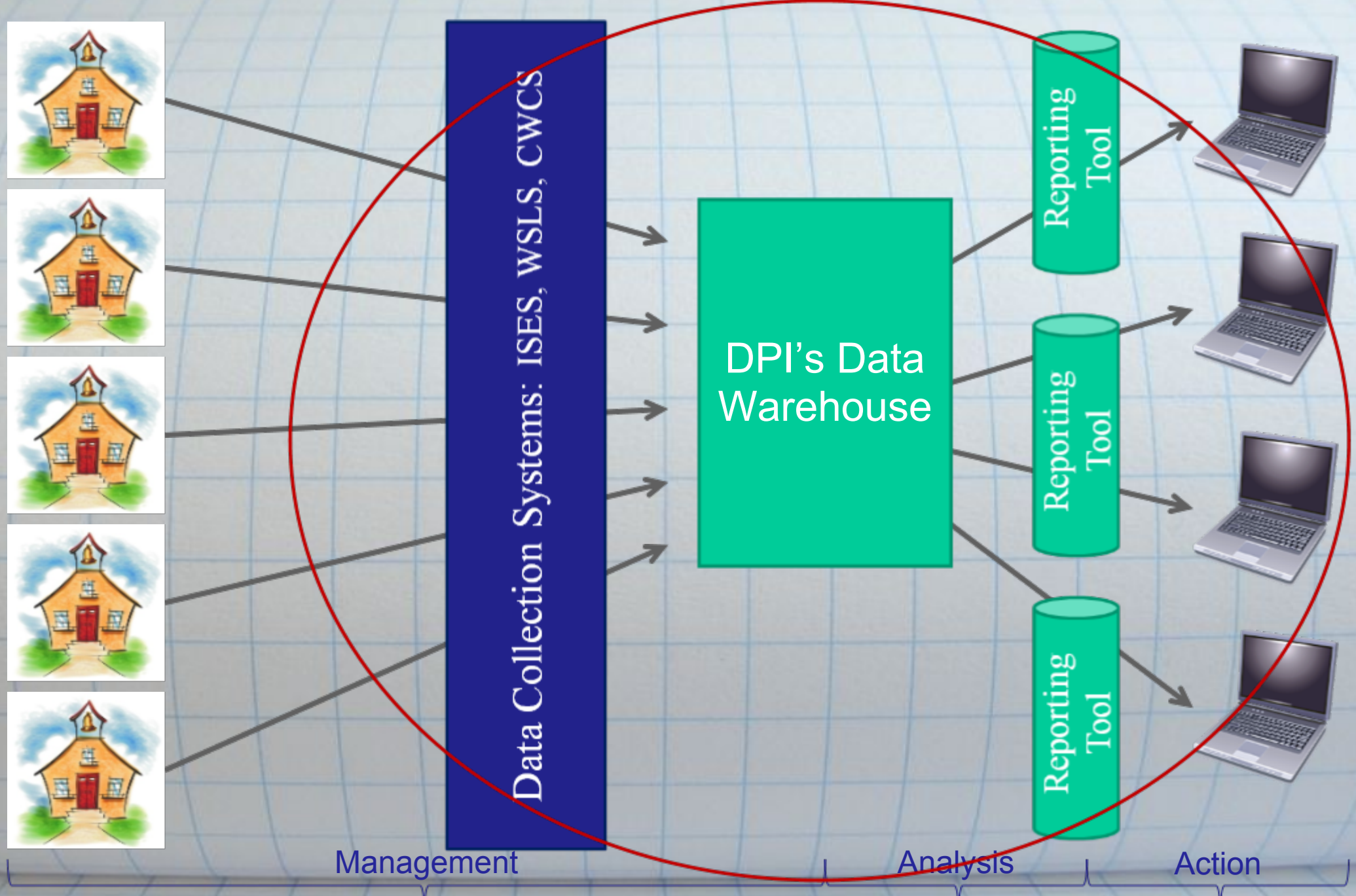
Data Warehouse and Dashboards

- 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
- Goes live in November
- CESA Support Network coordinating training
- Will eventually replace WINSS for public reporting
- Will have a parent dashboard

Data Warehousing "Picture"



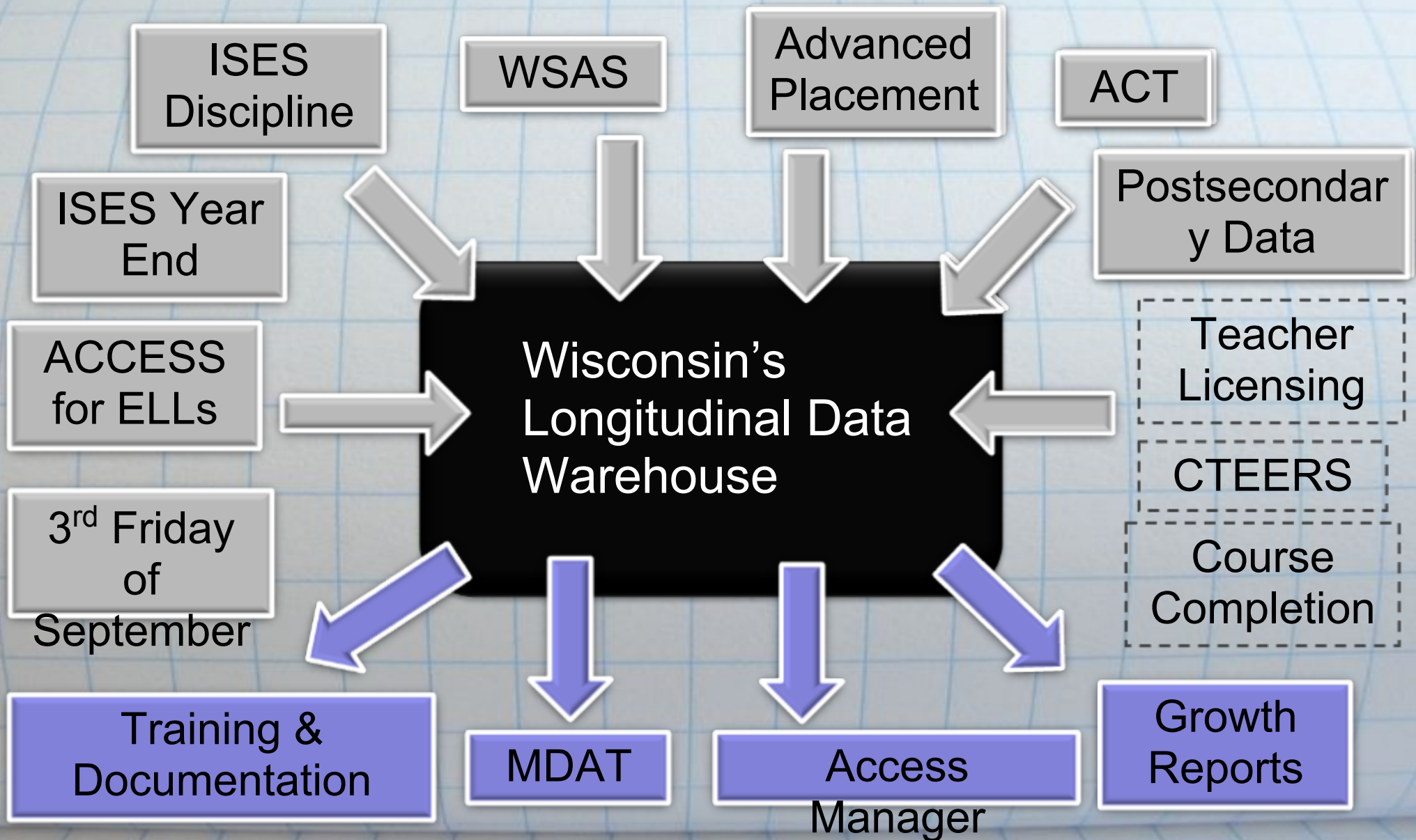
Data Warehousing "Picture"



What We Collect NOW

- Mainly driven by federal requirements
- All of which are "snapshot" data

Where we are NOW: Wisconsin's Longitudinal Data System



Federal Data Requirements

Elementary and Secondary Education Act (ESEA)

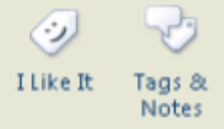
<http://www.dpi.wi.gov/lbstat/eseamap.html#data>

What will the Data Look Like?

- Visual
- Plenty of colors signaling interpretations
- Secure access to the student name to facilitate action
- Opportunities for deeper analysis than ever before with user interaction



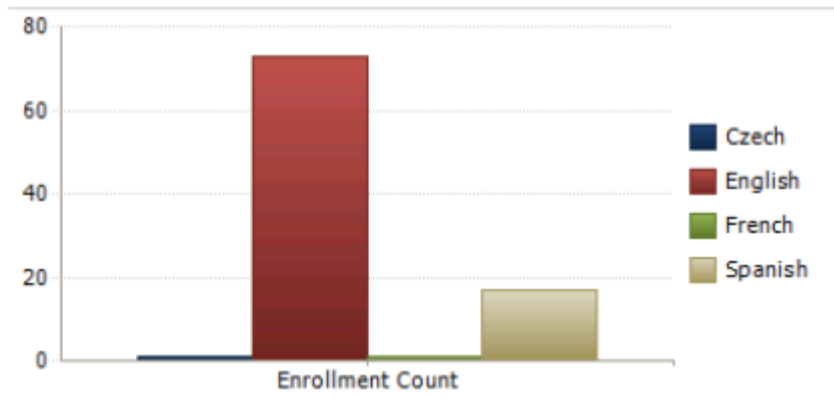
District Dashboard > District Attendance Report



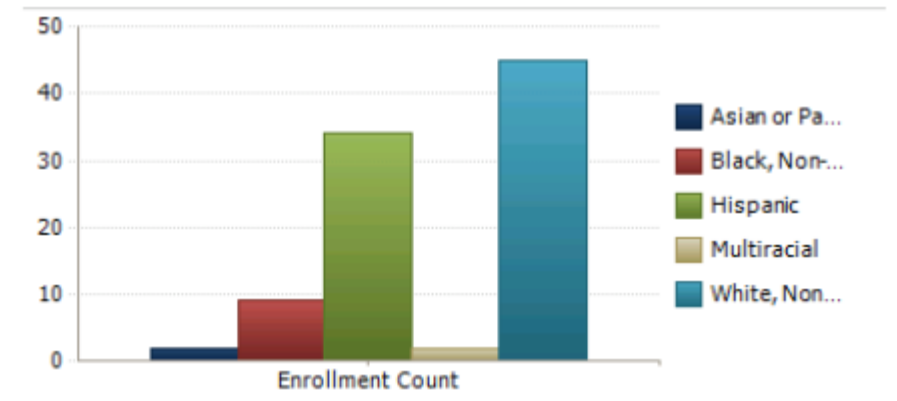
- Contoso District Schools
- District Dashboard
- FAST Search Center
- Teacher Resources
- Wiki
- Dashboards
- Data Connections
- Libraries
- K12Excel
- PerformancePoint Content
- Recycle Bin
- All Site Content

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

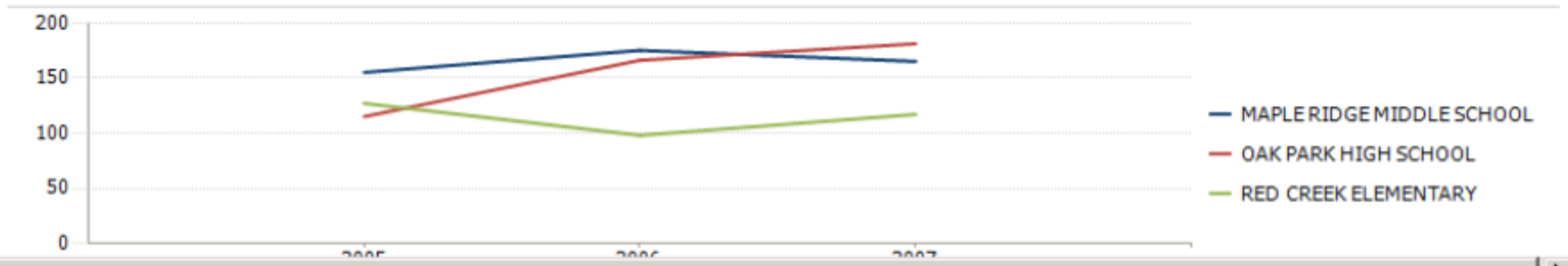
District Enrollment Primary Language



District Ethnic Enrollment

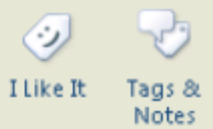


Unexcused Absences Chart by School





District Dashboard > Administration Dashboard



[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](#)

School Year: 2007

District Test Scores

	Math Score		Reading Score	
	Actual	Target	Actual	Target
African American	236.75	300 ◆ -21%	238.00	300 ◆ -21%
Asian	414.00	300 ● 38%	500.00	300 ● 67%
Hispanic	262.77	300 ◆ -12%	238.56	300 ◆ -20%
White	310.79	300 ▲ 4%	332.29	300 ● 11%

District Test Score Detail

Currently Enrolled School	School.Fac Name	Math Scale Score	Reading Scale Score
MAPLE RIDGE MIDDLE SCHOOL		299.33	322.61
OAK PARK HIGH SCHOOL		278.23	273.06
RED CREEK ELEMENTARY		307.73	307.73

District AYP

	Actual	Target
MAPLE RIDGE MIDDLE SCHOOL		●
<input type="checkbox"/> Meets AYP	347	330 ● 5%
OAK PARK HIGH SCHOOL		●
<input type="checkbox"/> Meets AYP	382	330 ● 16%
RED CREEK ELEMENTARY		▲
<input type="checkbox"/> Meets AYP	320	330 ▲ -3%

District Absence By School

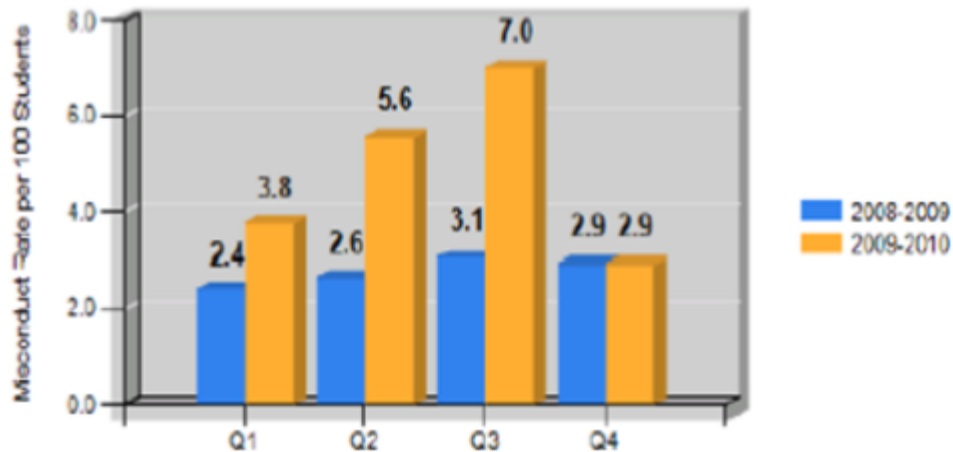
	Absence Pct	
	Actual	Target
MAPLE RIDGE MIDDLE SCHOOL	6.68%	6.0% ● -11%
F	6.70%	6.0% ● -12%
M	6.65%	6.0% ● -11%

Data Dashboards - Briefing 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.)?

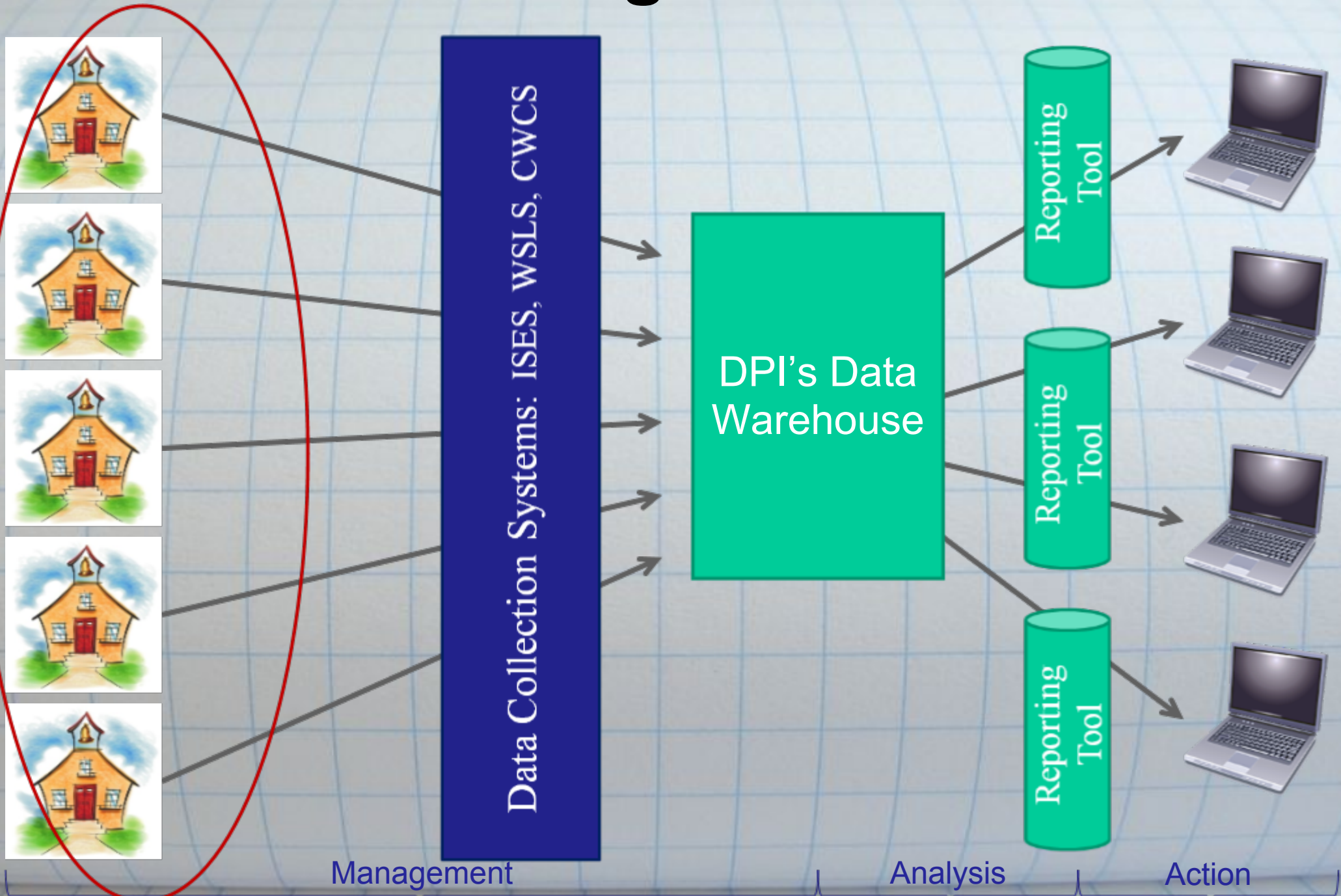
- _____
- _____
- _____

Data Warehouse and Dashboards

For more details please go to:

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

Data Warehousing "Picture"



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
- 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
- Mailing student folders from district to district - no more

Why a Statewide SIS? - (Cont.)

● Improved data quality

- Data comes from a common database and is validated consistently
- Implementation of data "triggers," e.g., early warning systems, response to intervention (RtI) flags, etc.
- Results in ability to have earlier predictions of a student falling off track
- Integrating data across information systems, e.g., SIMS, MAP, and with partners, i.e., higher ed and early childhood for stronger P-20 connections about student transitions

SIS Timeline

- October - Request for Proposals (RFP) released
- November through January - Product evaluation
- March - Contract signed
- September - First districts implemented

Statewide Information Systems (Cont.)

Other future systems may include:

- Human resources
- Finance/budgeting
- Library automation
- Food service
- Transportation
- ?

Moodle for Learning Management

- 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
- "Crowd-source"
- Connect to SIS for blended learning option across entire state

Moodle for Professional Collaboration

- Groups by theme/topic/interest
- Host professional development events calendar
- Create repository of professional learning "objects"
- Use web 2.0 features for discussion, forum, chat - power of many
- Integrate with an educator resource portal that features high quality resources

More About Moodle

<http://moodle.org/about/>

What are the Possibilities?

- Instructional practices surveys connected to outcomes - what works for whom?
- School climate surveys of teachers, students, and parents focused on the learning environment and how these affect outcomes
- Local benchmark assessments become the norm and not the exception - it all goes into the same "buckets" making it easily retrievable for analysis

What are the Possibilities?

- End of Course Assessments - become more feasible across districts
- Student portfolios and blogs to personalize learning and to build student's ability to reflect on where they are headed
- Measuring parent engagement - e.g., "hits" on the parent portal data

And What Make These Possibilities?

A Statewide Student Information System

- Eliminates the chaos of connecting data from many different sources
- Facilitates a simple, statewide implementation of specific data events, i.e., surveys

Why More than Data?

To create a true system of support beyond simply a measurement system