

Wisconsin's Longitudinal Data System



AN OVERVIEW



What is a Longitudinal Data System?



- A longitudinal data system for education is one that
 - Collects and maintains detailed, high-quality student- and staff-level data
 - Links these data to one another across entities (collections or data warehouses) over time
 - Enables the data to be accessible through reporting and analysis tools

What is a Longitudinal Data System?



- A longitudinal data system has many different layers and key components.
 - Data warehouse storing student and school data from a variety of sources
 - A unique student-level identifier
 - Reporting tools (web-based)
 - Secured: MDAT, SAFE
 - Public: WINSS, School Performance Report
 - Security Applications
 - Application Security Manager
 - Professional Development

In Sum, a Longitudinal Data System...



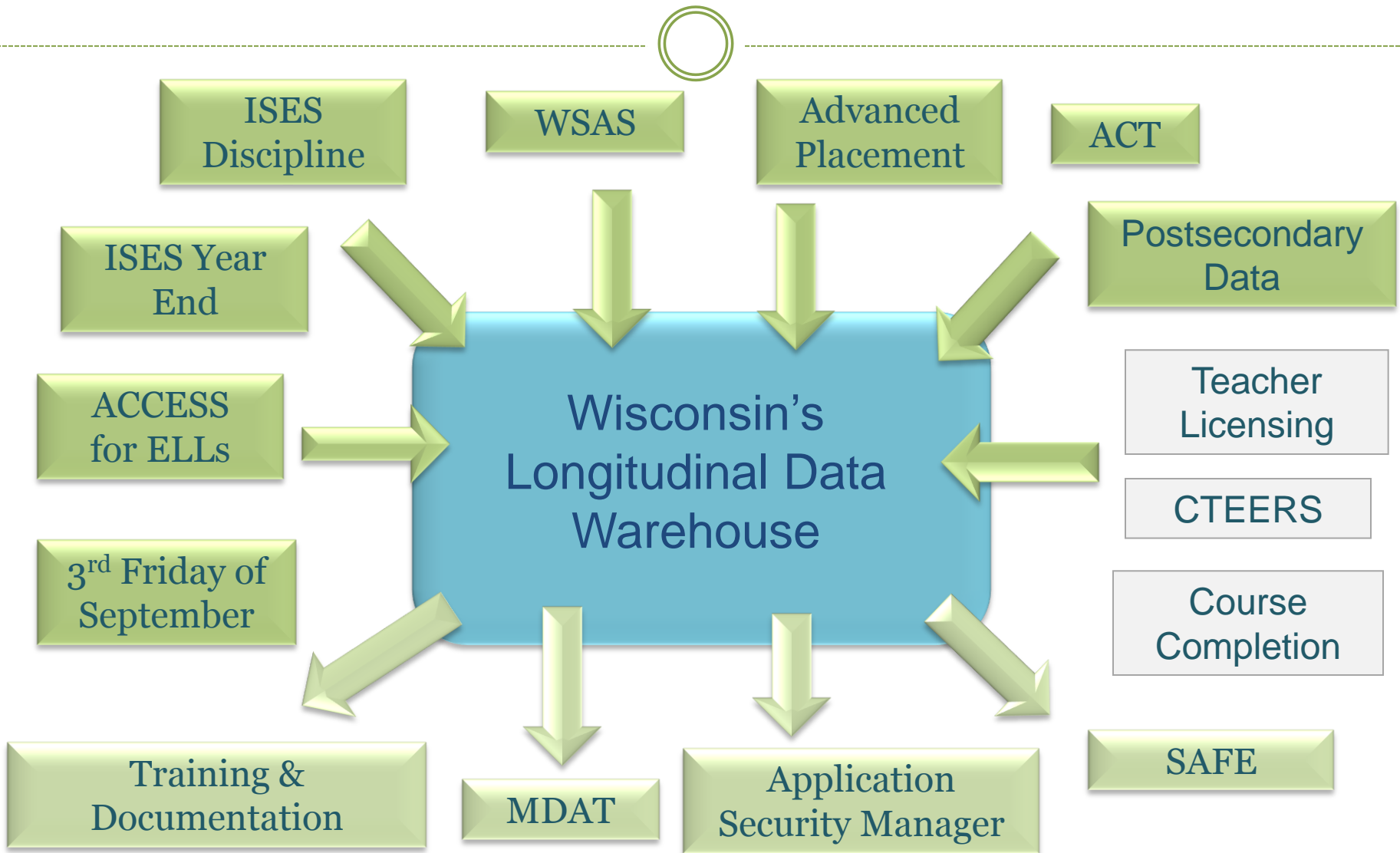
- Brings data together **AT THE STUDENT –LEVEL** for granular analysis and comparisons at multiple levels (to cohort, school, district, state)
- Includes
 - Data collections beyond test scores that create a more **COMPLETE PICTURE** of student performance
 - Reporting and analysis tools that take advantage of longitudinal data with multiple measures and multiple years.
 - Security Applications that ensure the data are secure and available only to appropriate personnel

Wisconsin's Longitudinal Data System



- **Current key components of Wisconsin's LDS include:**
 - A data warehouse storing student and school data
 - A security application
 - Application Security Manager
 - Secured Reporting Tools (web-based)
 - MDAT, multi-dimensional analytic tool
 - SAFE, secure access file exchange
 - Public Reporting
 - WINSS
 - School District Performance Reports
 - Professional Development

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MDAT: Overview



- MDAT is a flexible, web-based application tool that allows authorized users to...
 - Select variables and filters to answer questions of their choice.
 - Access specific data and variables based on their User Role.
 - Use charts and graphs to analyze school and student progress over time.

MDAT Data



- **Data Sources:**
 - WKCE scores from WKCE results
 - Other data from WSAS and/or ISES
 - ✦ Count Date
 - ✦ Year End
 - ✦ Discipline Collection

- **Application uses four years of WKCE data**
 - Shows longitudinal cohort growth from one school year to the following school year.
 - Example: change from 2007-2008 school year (November test) to 2008-2009 school year (November test)

LDS Application Security Manager: A Security Solution



- MDAT allows school district officials identified by their school board as having a legitimate educational need to drill down to confidential student-level information
- Federal and Wisconsin laws protect student privacy
 - Wisconsin Statute 118.125
 - Family Educational Rights and Privacy Act (FERPA—34 CFR Part 99)
 - Privacy and Wisconsin's Longitudinal Data System
- DPI's solution to safeguard confidential data: a security tool called Application Security Manager

LDS Application Security Manager: Overview



- Application Security Manager is a tool of the LDS, one that manages...
 - Who can control access to secure applications
 - ✦ i.e., who else can use Application Security Manager
 - Who has access to secure applications
 - ✦ i.e., who can use MDAT or SAFE
 - What a user can see/do within an application (roles)
 - ✦ Which groups of student data the user can access

Looking Ahead



- **The future of reporting in Wisconsin: Business Intelligence**
 - A reporting system that will allow users to access dashboards, reports, and guided analysis tools on a variety of topics
 - Will provide secure (district access, requiring a log in) and public (eventually replacing WINSS) reports
 - For more information: <http://dpi.wi.gov/lds/wk12bi.html>
- **In the future, the LDS will include:**
 - Course completion data
 - Postsecondary data
 - Growth reports
 - CTEERS (Career and Technical Education) data

For help, more information...



- LDS Help
 - [Footprints Help Desk Tool](#)
- DPI LDS Website
 - <http://dpi.wi.gov/lds/index.html>
- To find out more information about available tools visit this page:
 - <http://dpi.wi.gov/lds/ldstools.html>
- To find out more information on our current grant visit this page:
 - <http://dpi.wi.gov/lds/wildsgrant2.html>