Educational Information Management System (EIMS)

Report to the

Virginia Board of Education

April 26, 2006

Lan W. Neugent
Assistant Superintendent for Technology
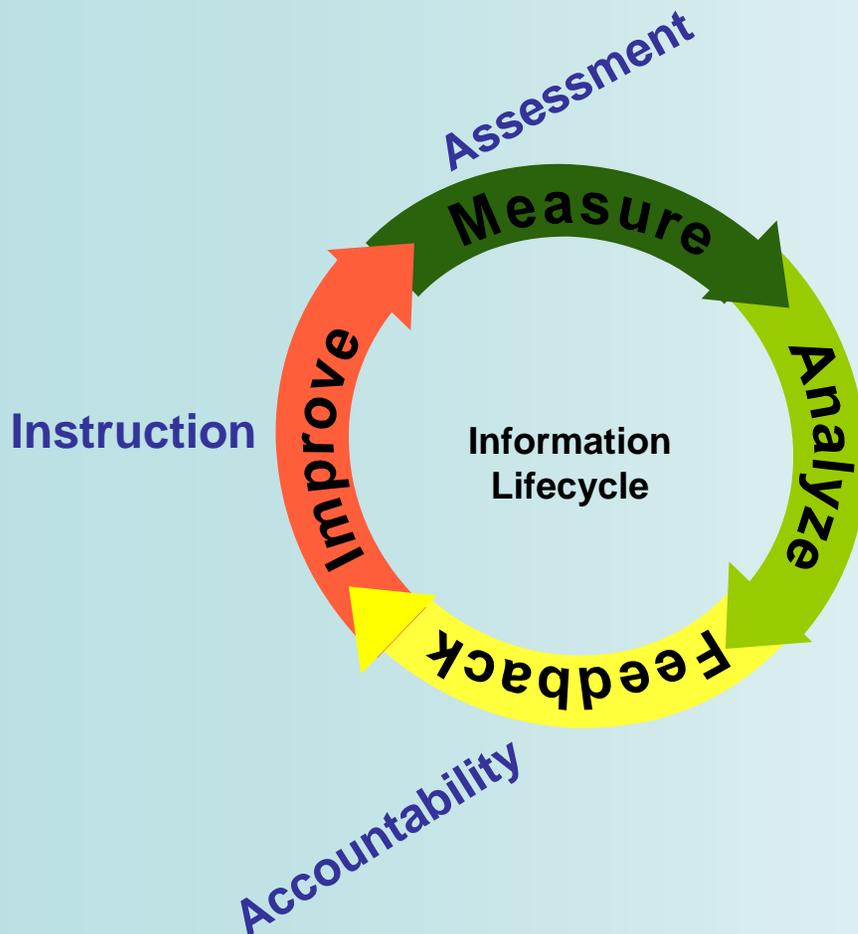
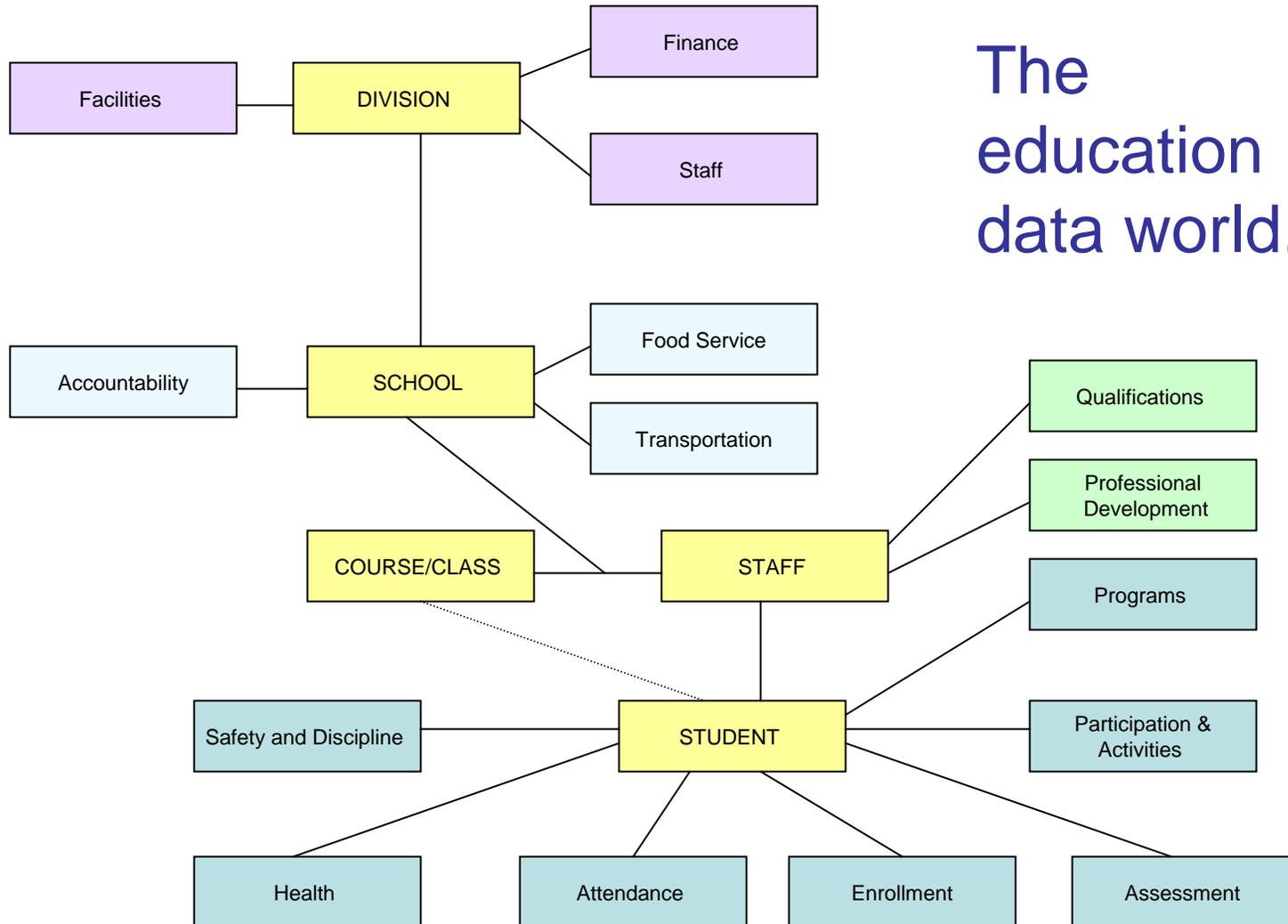# EIMS – From Accountability to Strategic Decision Support

… in every classroom

Where we are today …

EIMS – Realization of Benefits

Assessment

Measure

Analyze

Instruction

Improve

Information
Lifecycle

Feedback

Accountability

EIMS closes the loop on the educational information lifecycle, providing tools to analyze student performance.

The education data world.

EIMS Goals

- **Meet reporting requirements**
  - State
  - Federal

- **Redirect time toward instruction**

- **Monitor progress toward goals**
  - Closing achievement gaps
  - Accountability ratings
  - Individual student progress

- **Timely, high-quality data**
  - From a single source
  - In a meaningful format

Accountability

Strategic Decision Support

Year 1$^{1/2}$ Accomplishments

- **5 Years of SOL Data for all Subjects**
  - **2000-2001 through 2004-2005**

- **Preliminary SOL Data for 2005-2006**
  - **Updated weekly**
  - **Student-level Results**

Access to EIMS is granted locally.

- **Data Analysis by subgroup**
  - **Pass Rates**
  - **Scaled Score Bands**
  - **Reporting Category (subscale) level**

- **All Divisions have received State Testing Identifiers**
  - **Assigning identifiers is an ongoing process for divisions**

EIMS Today – Work Behind the Scenes

- **Easing the transition**
  - **Advisory groups**
  - **Focus groups**
  - **"Birds of a Feather" sessions**
  - **Acceptance testing**
  - **Pearson "Rapid Response Team"**

Virginia school divisions have been an integral part of EIMS system development

- **Significant work is required**
  - **Data and Testing staff participating**
  - **Submitting student data**
  - **Receiving "testing identifiers"**
  - **Reporting data**

School divisions have invested time and resources to see that EIMS is a success.

Accomplishments

- **Longitudinal Student Data**
- **A wealth of other educational data**
- **Ability to conduct detailed analysis**

Staff Demographic, Qualification and Assignment Information

Specific Program Participation Information (Special Ed, CTE, Title I)

Student Achievement, Demographic, and Program Participation Information

School and Division Characteristics and Accountability Information

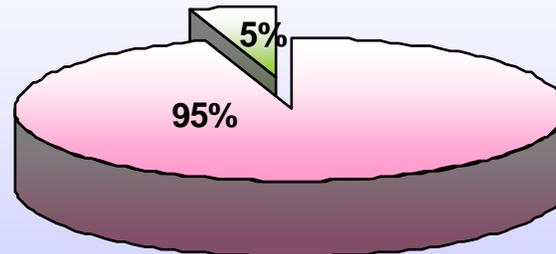Division-level Financial Information

Examples

- **Do students that pass 3rd grade reading also pass 5th grade reading?**

Student Performance on 5th Grade Reading After Passing 3rd Grade Reading

2,149 Failed 5th Grade Reading after Passing 3rd Grade Reading

5%

95%

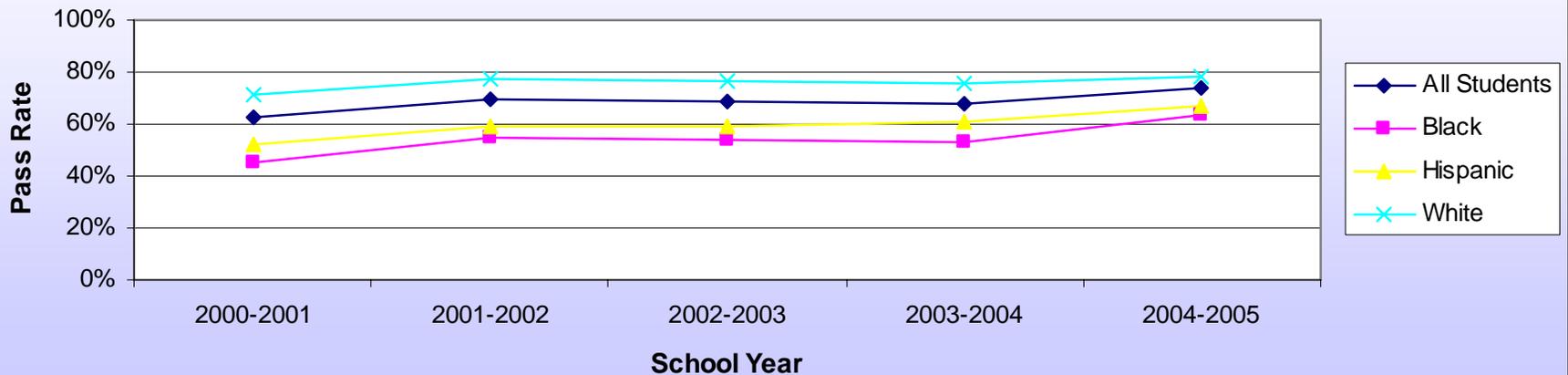*40,066 Passed 5th Grade Reading after Passing 3rd Grade Reading*

☐ Passed 3rd and 5th Grade Reading ☐ Passed 3rd Grade, Failed 5th Grade Reading

Examples

- ## Are all students achieving equally?

Percent of Students Passing Third Grade SOL Tests

Chart legend:
- All Students
- Black
- Hispanic
- White

Y-axis: **Pass Rate** (0% to 100%)
X-axis: **School Year** (2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005)

Challenges:

- **Data Accessibility**
- **Data Quality and Timeliness**
- **Capacity to conduct Data Collection and Analysis**

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EIMS Tomorrow – Room to Grow

- **Adopting interoperable data transmission standards**
  - **Real-time data submission**
  - **No human intervention**
- **Longitudinal analysis**
  - **Individual student growth**
  - **Linking individual student needs**
    to appropriate educational resources
- **Links to other data systems**
  - **Electronic transcripts**
  - **Other divisions**
  - **Community Colleges and other Higher Ed institutions**

Tying it all together in a friendly, interactive way

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Linking performance to tools for improving instruction

Lesson Plans

Benchmark Assessments

STANDARDS OF LEARNING

Learning Objects

Individual Student Education Plans

Current Activities

- **Implementing the Schools Interoperability Framework (SIF) standards for interoperability**
  - **40 divisions by June 30, 2006**
  - **Negotiated significant cost savings for divisions**
- **Participating in the Data Quality Campaign**
  - **Working toward the 10 essential elements**
  - **Selected for a best practices site visit**
- **Participating in the other National activities**
  - **School Matters**
  - **Just for the Kids**
  - **Education Data Exchange Network**

The 10 Essential Elements

1. A Unique Statewide Student Identifier

2. Student-Level Enrollment, Demographic and Program Participation Information

3. The ability to match individual students' test records from year to year to measure academic growth

4. Information on untested students

5. A teacher identifier system with the ability to match teachers to students

The 10 Essential Elements

6. Student-level transcript information, including information on courses completed and grades earned

7. Student-level college readiness test scores

8. Student-level graduation and dropout data

9. The ability to match student records between the pre-K-12 and postsecondary systems

10. A state data audit system assessing data quality, validity and reliability

SIF can be used to make your data systems talk to one another
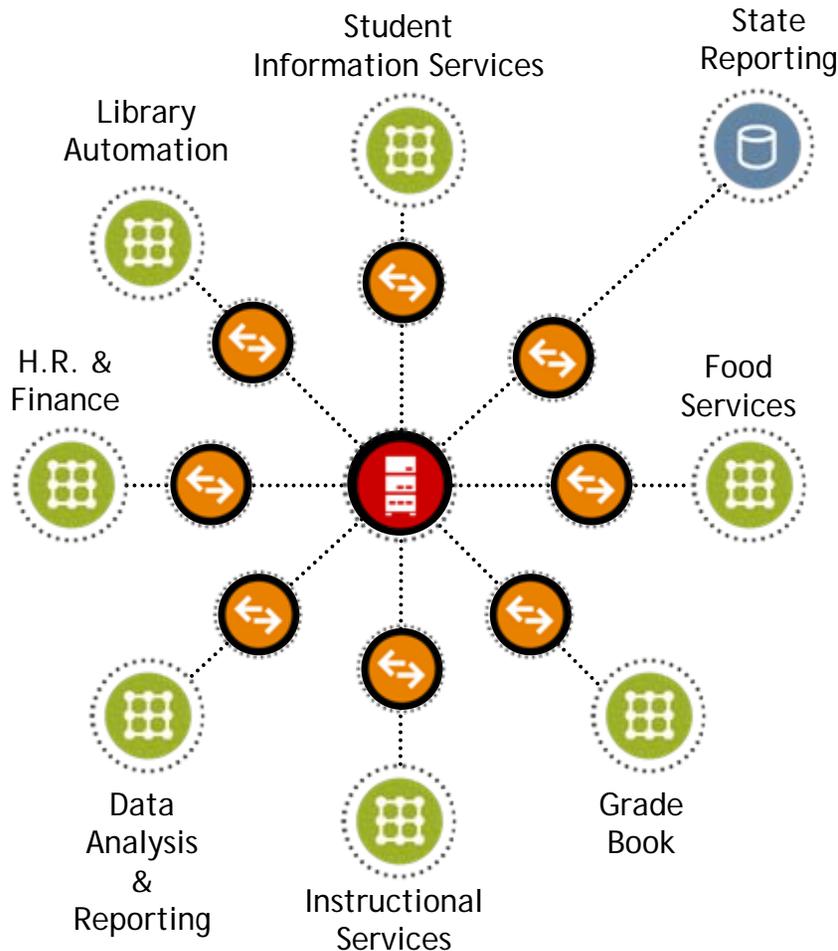
- Data is entered only once in one system (accuracy),

- and automatically propagates to other systems (staff),

- and allows systems to exchange data (staff, state reporting),

- and creates potential to create reports across different systems (D3M),

- and reduces the number of forms to complete (parents)!

using the logical provider of data.

Thank You