

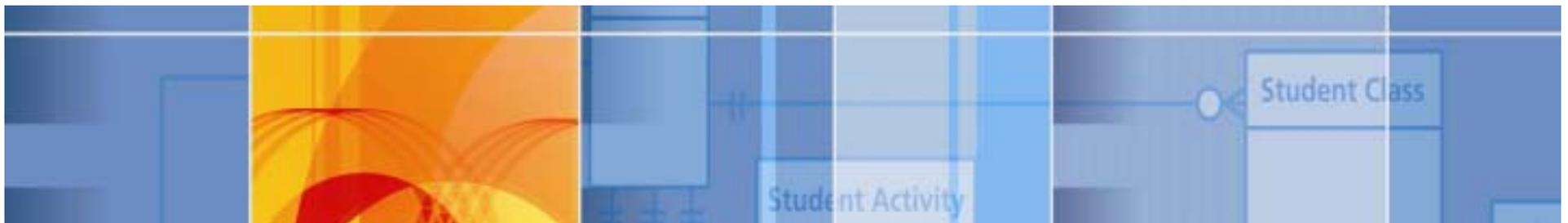
Rhode Island Department of Education

Data Warehouse, SIF and Portal Project Completion Case Study

Scott Gausland, RIDE

Manos Stefanakos, ESP Solutions Group

July 31, 2008



Project Background

RIDE began with some excellent systems!

- Unique Student Identifier system already implemented
- Data collection was well thought out and districts were already familiar with it
- Reports such as the InfoWorks data contained a great deal of detail and was easy to comprehend

Project Background

Student Activity

Student Class

What RIDE sought:

- Move from “silos” to warehouse that combined data from various systems and departments
- Longitudinal capability
- Enterprise Portal through which information would be made available
- Easy report generation and dissemination
- Ability to respond to ad hoc queries
- Ultimately, RIDE was looking for increased capacity for school administrators, teachers and parents to use computer software tools to:
 - integrate data,
 - apply standards and measures,
 - analyze results,
 - determine outcomes,
 - explore best practices and adjust education programs and instructional procedures.



Project Chronology

Spring 2006

- RIDE issues RFP for Central Education Information Warehouse
- Contract awarded to ESP Solutions Group of Austin, TX, who has subcontracted with TetraData of Greenville, SC for part of the work.

Fall 2006

- Initial version of Data Warehouse is deployed
- RIDE agrees to use State Report Manager (SRM) as the data collection and validation tool
- Group of districts identified as User Group for Data Warehouse and data collection tool

Spring 2007

- Statewide roll-out of Data Warehouse and associated ad hoc analysis tool
- SIF component, encompassing about half of the districts is added

Project Chronology (continued)

Summer 2007

- SRM pilot is launched
- SRM SIF agent is configured

Fall 2007

- First collection through SRM is done
 - (old eRIDE system still available as back-up)
- New data flow for official and unofficial data is created

Winter 2007

- December SPED collection is done exclusively through SRM

Spring 2008

- SIS SIF agent updated to address reporting needs

Summer 2008

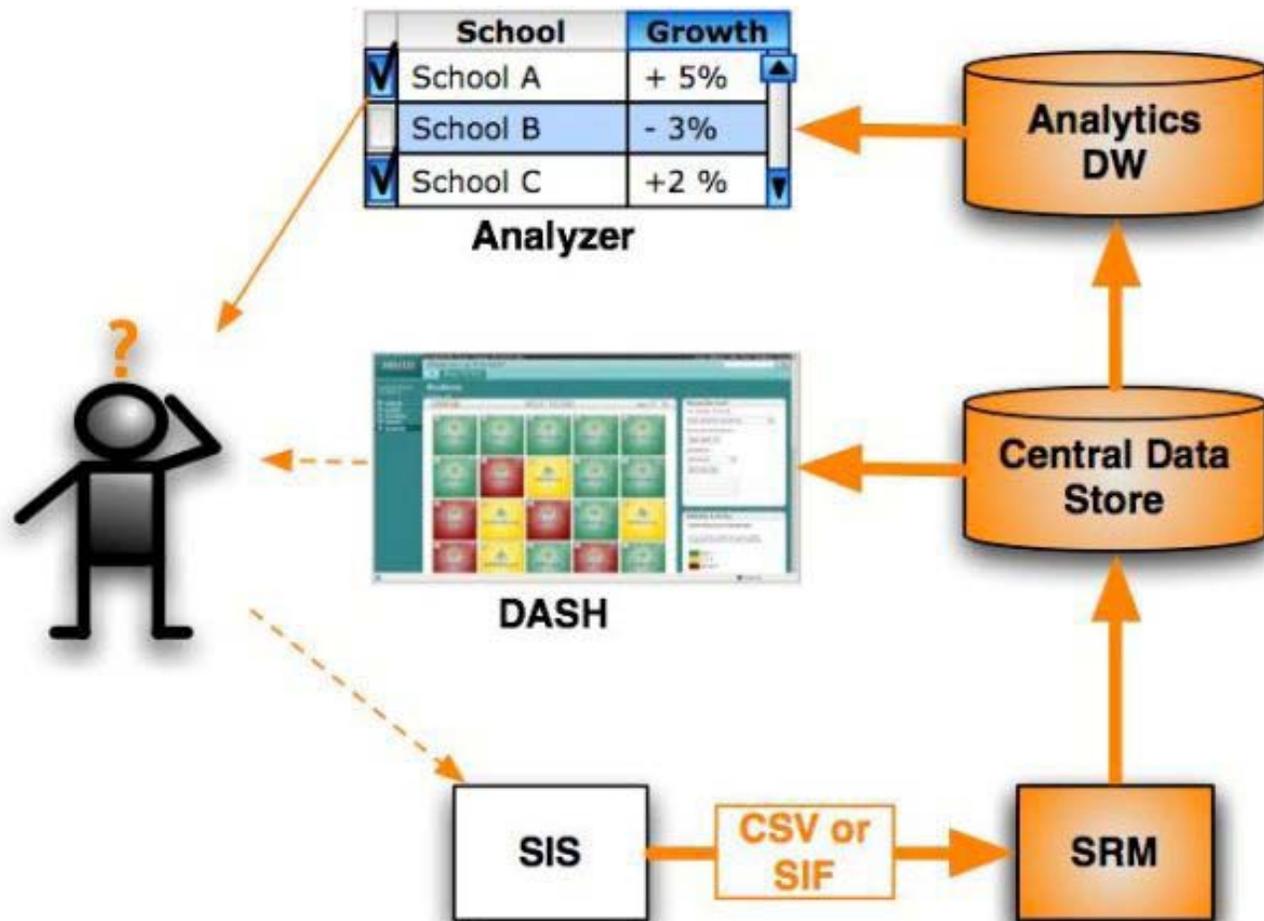
- Version 2 of the data warehouse is completed
- DASH tool is installed, awaiting statewide pilot
- This phase of project completed.

Component Systems

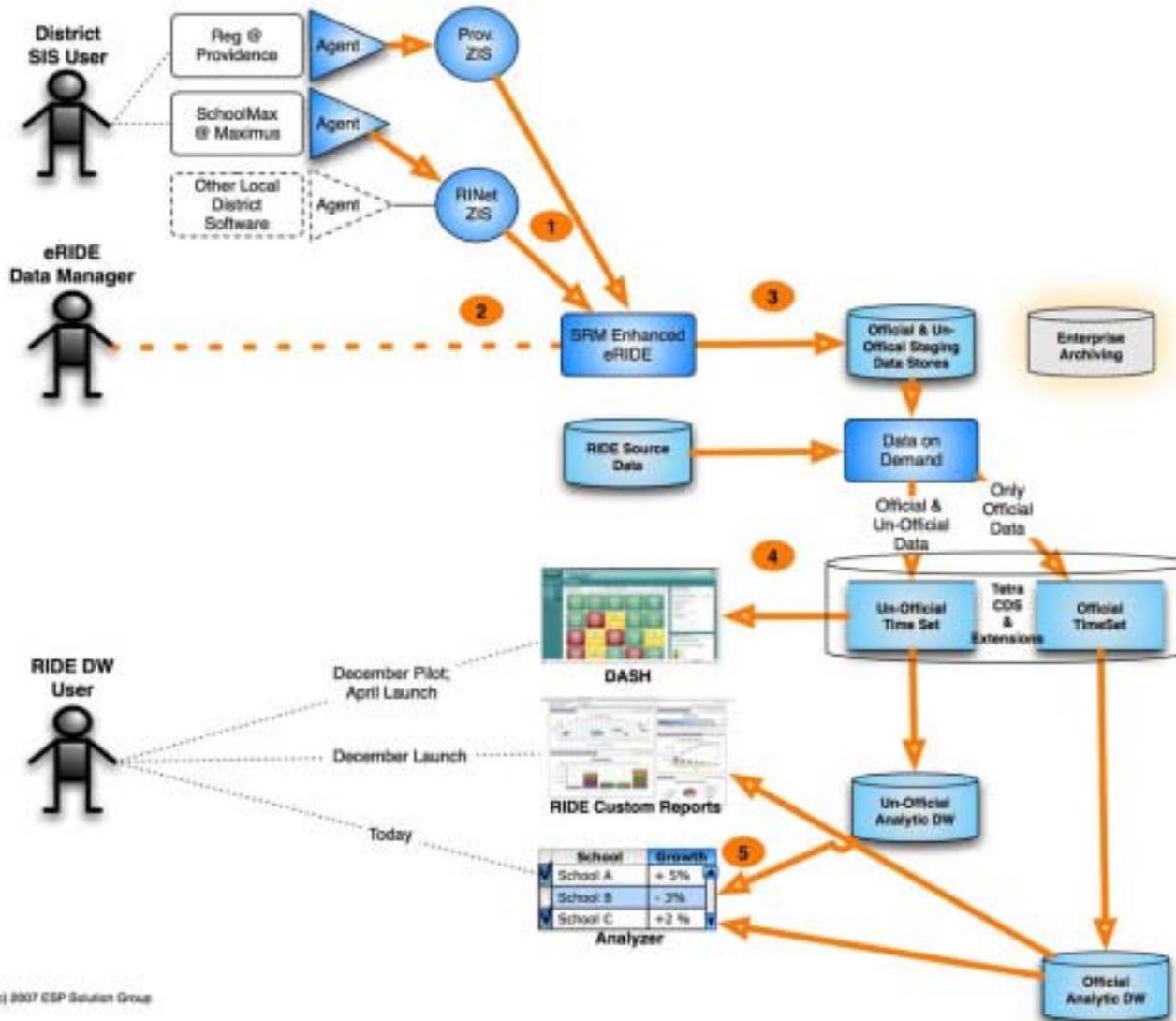
The RIDE CEIS Project consists of several pieces have been deployed:

- TetraData Analysis Suite
 - Data Warehouse
 - DataAnalyzer
 - DASH
- State Report Manager
- Master Directory
- CEIS Portal
- SIF collections for two SIS, accounting for over 50% of students

RIDE CEIS Components

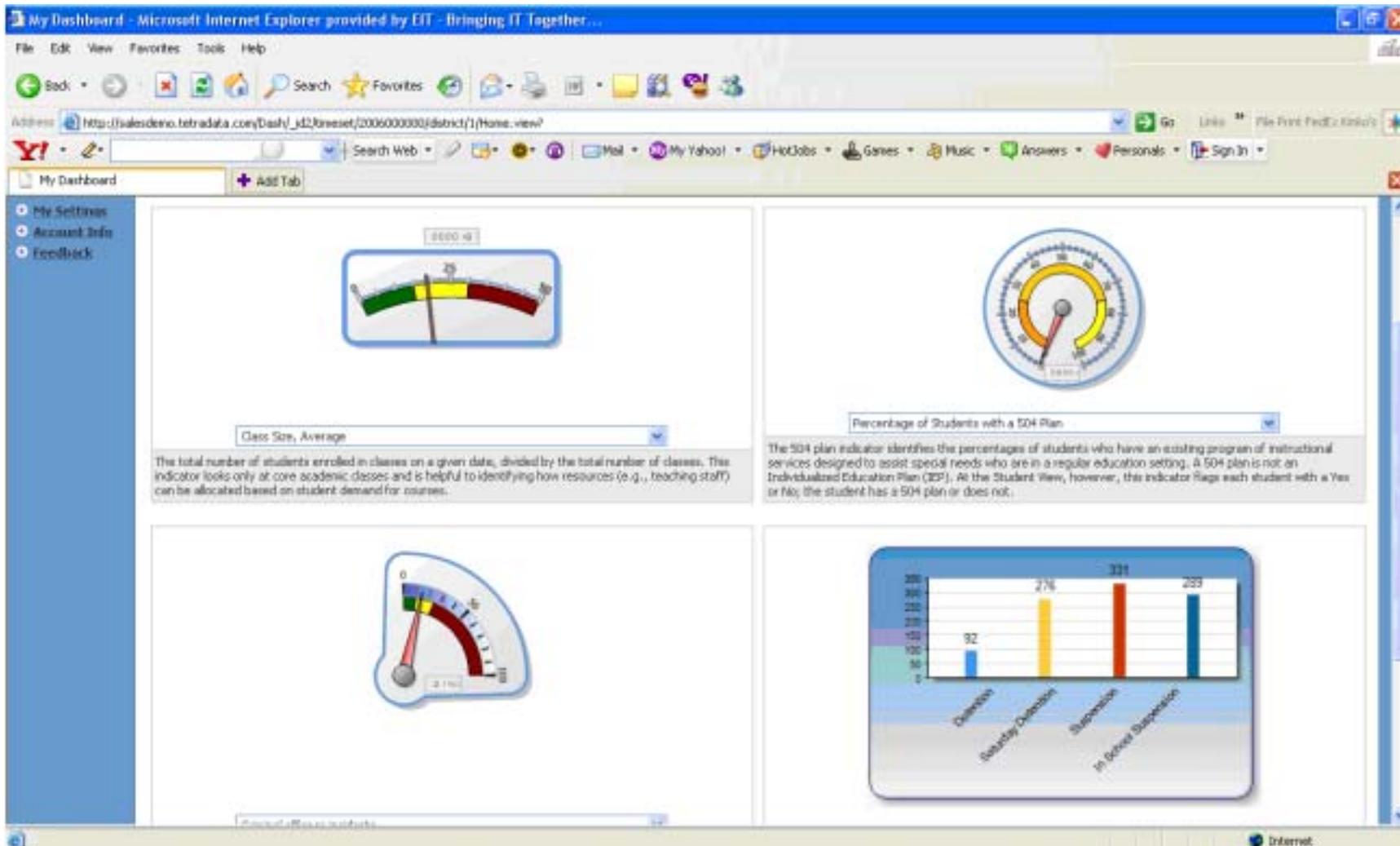


RI Data Flow



© 2007 ESP Solution Group

TetraData's DASH



Collection Issues

- **Ability of LEA's to provide data**
- **Varying definitions of common terms**
 - “school,” “student”
- **LEA concerns about data they provide will be used,**
 - Undocumented alien addresses/statuses
- **Varying data quality depending on districts and data sets**
- **Data Reporting requirements exceed limited LEA resources**
- **New data collection system added issues that needed resolution**
- **SIF upstart issues**

Storage Issues

- **Central Data Repository**
- **Creating a system that address everyone's needs**
- **Ease of use**
- **Importing existing data into new warehouse**
- **Analysis that can be run against it**

Usage Issues

- Reporting capabilities of system
- Security of information – role-based access to data
- After initial success, limited acceptance and use for analysis
- Political implications of possible reports such as ranking
- Who gets to define indicators
- Limitations on reporting as a result of available data

Oh, was that all?

Actually, no!

- Resource limitations
 - System people also data people also program people
- Change in people's routines

Lessons Learned

The overwhelming lesson from the RIDE CEIS DW project is not about technology. Rather, it is about the complexity of the issues surrounding the collection, storage and usage of data.

Next Steps

Build on foundation created by initial phase

Take a step back to the original drivers for the project

The technology portion is now in place

Need to incorporate the human elements to move towards our true goal: To give educators the information they need to help each student achieve their potential. We shouldn't settle for anything else!