



Arizona Department of Education
SAIS Assessment
Close Out Meeting
April 27th 2012

Agenda

- Approach
- Accomplishments
- Status
- Conclusions
- Next Steps
- QA



Approach

- **Process**

- Information gathering
- Analysis and Documentation
- Review and sign off

- **Deliverables**

- System Assessments
- Architectural Assessment
- Data Dictionary
- Analysis & Recommendations
- LEA Survey questions

Process Overview

- **Assessment breakdown**

- Breakdown Assessment into Business Objectives
- Breakdown Business Objectives into Features
- Breakdown Features into Tasks
 - Tasks for Process Analysis, Process Documentation, Data Analysis and Data documentation according to functionality
- Create initial estimates for Tasks

- **Feature Analysis Process**

- Perform initial analysis of Feature
- Re-evaluate task breakdown and estimates
- Finalize analysis of feature



Process Overview

- **Feature Assessment**
 - Technical Documentation
 - Business Process Documentation
- **Internal Review**
 - Correction Phase
- **School Finance Review**
 - Correction Phase
- **Technical Review**
 - Correction Phase
- **Final Approval**



Accomplishments

- Identified core functions and processes
 - SAIS was categorized into 28 functional areas
 - Some examples of these are
 - Functionality related to funding requests
 - Functionality for creating a payment requisition
 - Calculations
 - Functionality involving the collection of student data

Accomplishments

- Mapped SAIS processes from beginning to end
 - 69 systems and manual processes
 - Each of the processes and systems was analyzed, identifying:
 - Inputs/Outputs
 - Detailed steps
 - All statute references
 - Business Rules
 - Automated and manual funding calculations
 - Data sources
 - Payment allocations
 - Identified 5 primary SAIS processes and ~ 146 subprocesses
 - Data Collection, District Payments, Charter Payments, Budgets, 915

Accomplishments

- Analyzed and documented all processes
 - 41 applications composed of hundreds of components
 - 28 databases, 400 tables, 800 stored procedures
 - 139 Excel spreadsheets
 - 205 documents (reports, memos, applications, requisitions)
 - 267 Integrity Rules
 - 92 deliverable documents produced (over 3,700 pages), covering:
 - User roles involved in the process, reports
 - Use case diagrams and use cases including each process step
 - Details of each code process, all database and code references
 - Activity diagrams for each use case and code process
 - Calculations, business rules, and statute references

Status

- All analysis and documentation work is complete
 - As of April 20, there are 14 assessment documents pending final approval
 - A minimal amount of effort will be required to make any corrections
- All final deliverables are complete
- All documentation and deliverables stored in TFS
- Approved Budget: \$1,260,722
- Spend as of April 20: \$1,259,977
- Project Close Out Meeting – April 27

Conclusions

- **Problem domain understood and documented**
 - Business Processes identified and documented
 - User Roles identified and documented
 - Statutory and legal references identified and documented
 - Data elements identified and documented

Conclusions

- Key Goals Identified

- Correctness

- Ensuring that funding calculations and amounts are correct according to law

- Efficiency

- Ensure a timely delivery of funds and a focus on customer usability

- Transparency

- Providing visibility into the system enforces correctness and supports predictability or budgetary purposes

- Adaptability

- Ensure changes to state and federal laws are efficiently adopted



Conclusions

- The current SAIS is supporting none of the Goals well
 - Technology is outdated
 - An extreme amount of manual effort is required to serve customers
 - The system contains errors
 - Results are mostly untraceable
 - The system is fragile and change is difficult



Conclusions

- **Significant Opportunities exist**
 - Reduce manual effort
 - Enhance and simplify IT Support (more service, less effort)
 - Decrease the probability of error and increase transparency
 - Reduce the overall operational complexity

Conclusions

- Taking advantage of these opportunities requires a replacement system
- To achieve organizational goals, guidelines to be followed during the development of the replacement system include:
 - Utilizing a Requirements Driven Design and Implementation
 - Targeting Requirements at organizational goals
 - Focusing on simple solutions to support efficiency and adaptability
 - Utilizing best practices for application lifecycle management

Next Steps

- **Begin requirements gathering phase**
 - SAIS Assessment can serve as a critical data source and guide to the requirements gathering phase
 - SAIS Assessment provides an understanding of the breadth and depth of the problem domain
 - SAIS Assessment identifies what the system does, how users interact with it, how SAIS interacts with other systems, and constraints, problem areas, and opportunities
 - SAIS Assessment supports the definition of the context for requirements and design, provides a basis for prioritization, and sets the foundation for a solid plan



Q&A

- Questions appreciated

