

# ADE IT Modernization Effort Update



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# SAIS IMPROVEMENTS

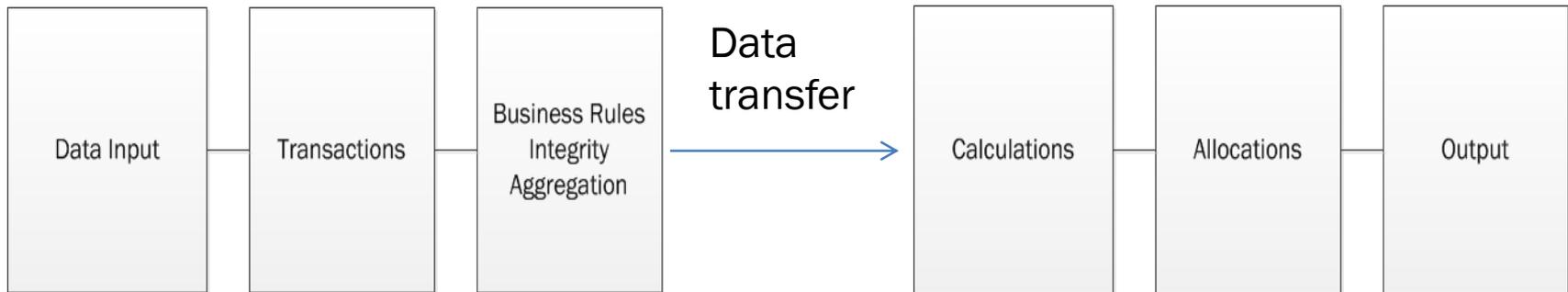
# SAIS Assessments (Reengineering)

- “Mapped the mess”
- Identified core functions and processes
- Understanding what SAIS needs to be and how it has to work

# SAIS Reengineering

## SAIS Data Rules

## SAIS Funding Rules



- Mapped core SAIS functions from beginning to end
- Every process analyzed and documented
- Discovered manual processes

# What they found in “the mess”

- 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 sub-processes
  - Data Collection, District Payments, Charter Payments, Budgets, 915

# What else they found in “the mess”

- 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):
  - 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

# Current data systems are not sustainable

## ADE uses SAIS and more than 170 other data systems

- 40% of total state General Fund goes through SAIS
  - Manages **\$4 BILLION** on an unsupported application
  - 1% error = **\$40,000,000**
- At least **\$43,500,000** on SAIS personnel costs annually
- LEAs correct **50,000+** errors monthly
- Complete and auditable financial transactions are **not available**
- SAIS still **does not know** which student, teacher, school record is accurate
- ADE and LEA communication relies on **manual processes**
- LEAs provide the **same data** multiple times in different formats
- Disparate systems **cannot reconcile** calculations and reports made by different business units within ADE

# Arizona's education roadmap

<p>FY 13</p> <p>Accurate, efficient and timely data collection and reporting</p>	<p>FY 14</p> <p>Online tools to improve student and teacher success</p>	<p>FY 15</p> <p>Turning financial and student data into information for teachers, parents, administrators and policy makers</p>
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*Reactive, Historical*



*Proactive, Predictive*

- Auditable results of state aid distribution
- Accurate student counts
- LEAs better able to forecast and plan

- Online professional development and classroom materials
- Deployment of Common Core Standards
- Sharing online learning and instructional systems

- Systems that can provide answers to questions that cannot even be conceived today



# Now what?

- Create detailed functional user requirements and RFP for rewrite of SAIS (“SAIS 2.0”)
- Recommended approach
  - Gather requirements from ADE (School Finance, IT, Audit), LEAs, SMS/SIS vendors
  - Total duration of around 6 months

# “SAIS 2.0” Activities

- ADE and vendor team activities
  - Review existing documentation of the SAIS system
  - Capture requirements and suggestions from small, medium and large LEAs
    - Approximately 8-10 public and charter school districts
  - Gather requirements from School Finance and Audit
  - Gather ADE IT requirements/processes
  - Evaluate improvements with SMS/SIS vendors
  - Discuss accountability systems best practices with other leading states

# “SAIS 2.0” Timeline

\$1,497,726

\$500,000

Estimated: \$ 10,000,000 +

## SAIS Reengineering

- Transactions
- Integrity
- Aggregation
- Payment
- Deficiencies
- 40M+ payment issues
- Multiple hands touch w/no audit trail

## User Functional Requirements

- To be requirements
- Core functions
- Software blueprint

RFP

## Development

- Build/Test
- User Acceptance Testing
- Quality Assurance

“SAIS 2.0”  
Deployment

Nov 2011 –  
April 2012

April /May 2012 -  
Oct 2012

Oct 2012–  
Mar 2013

Mar 2013 –  
Dec 2014

Jan 2015

\*\*Estimated until user functional requirements are complete



Providing “knock your socks off service”

# **WHERE ARE WE GOING?**

# More What. More Why. Less How.

- Make it better
- Make it right

# Everyone has a stake in education



Students



Workforce



Administrators



Teachers



Public



Policy Makers



Parents



Higher Ed



# Education Intelligence



# Get on board with the future of education

ARRA  
Mandated

Arizona Education Alliance Members

Foundation	Extended Foundation	Integrated	Fully Integrated
<ol style="list-style-type: none"> <li>1. Student/Teacher /Course Connection</li> <li>2. Identity Management System</li> <li>3. Student Information System (SIS) Link</li> <li>4. School Payment System (SAIS Payment Replacement)</li> <li>5. Ed-FI (Dashboards for Districts)</li> <li>6. Public View (ED<sup>3</sup>S)</li> </ol>	<ol style="list-style-type: none"> <li>1. Foundation Components</li> <li>2. E-Learning Platform               <ul style="list-style-type: none"> <li>• Learning Management System (LMS)</li> <li>• Content Management System (CMS)</li> <li>• Professional Development Management System (PDMS)</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Foundation and Extended Foundation Components</li> <li>2. Assessment System</li> <li>3. Services Integrated into ED<sup>3</sup>S providing Decision Support</li> </ol>	<ol style="list-style-type: none"> <li>1. Foundation, Extended, and Integrated Services</li> <li>2. Districts using SIS and E-Learning Platform to drive (ED<sup>3</sup>S) real-time education driven decisions.</li> <li>3. LEA systems are redundant (State system utilized)</li> <li>4. State provides IAAS and SAAS solutions for LEA's</li> </ol>

ED<sup>3</sup>S = Arizona Education Data Driven Decision System

# Some How.

- Early adopters
- Foundational pieces
- Alliance membership

# Questions



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