



ADE Technology Maturity Model for Next Generation Learning

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Raising The BAR

Imperatives

Standards

New Systems

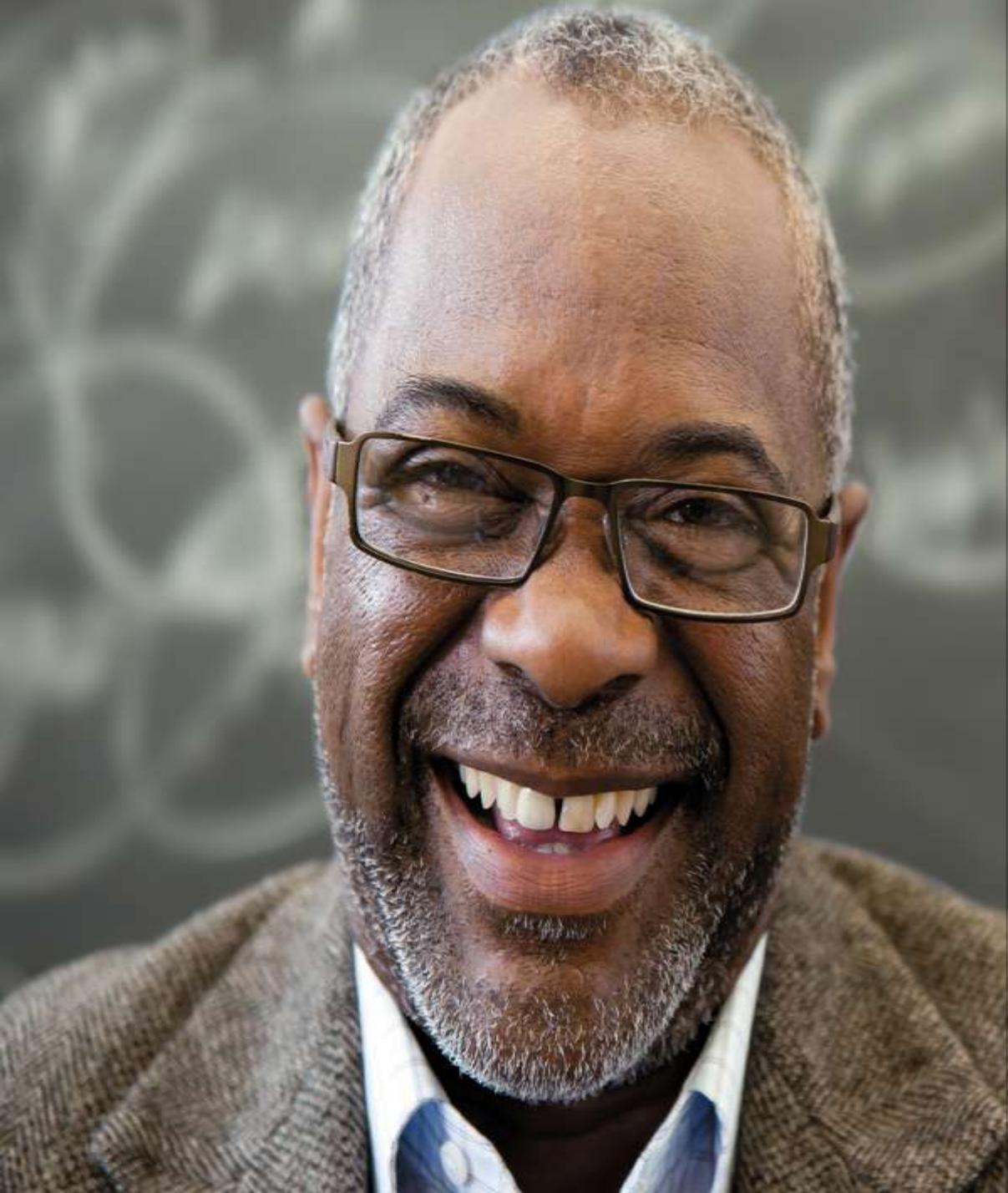


If education is the foundation of society, then technology is quickly becoming the mortar which binds and strengthens that foundation





STUDENT SUCCESS



GREAT
TEACHERS

EFFECTIVE INSTITUTIONS

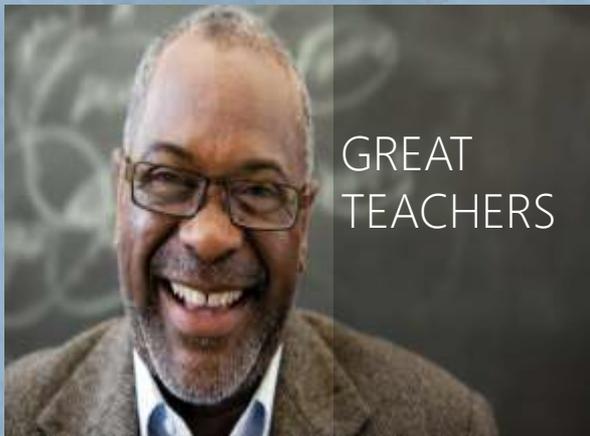


Road to Student Success



Transformational Leadership

Professional Development



People First: *Technology is a supporting component of the system*

A State-Wide *system* that uses *information* to purposefully orchestrate the *resources* of the all districts, LEA's to focus on progressing each student along a personalized success plan aligned with locally adopted standards.

SYSTEM



People
Process
Technology

INFORMATION



Identity
Content
Data
Analytics

RESOURCES



People
Technology
Applications
Facilities

STANDARDS



National
State
Local

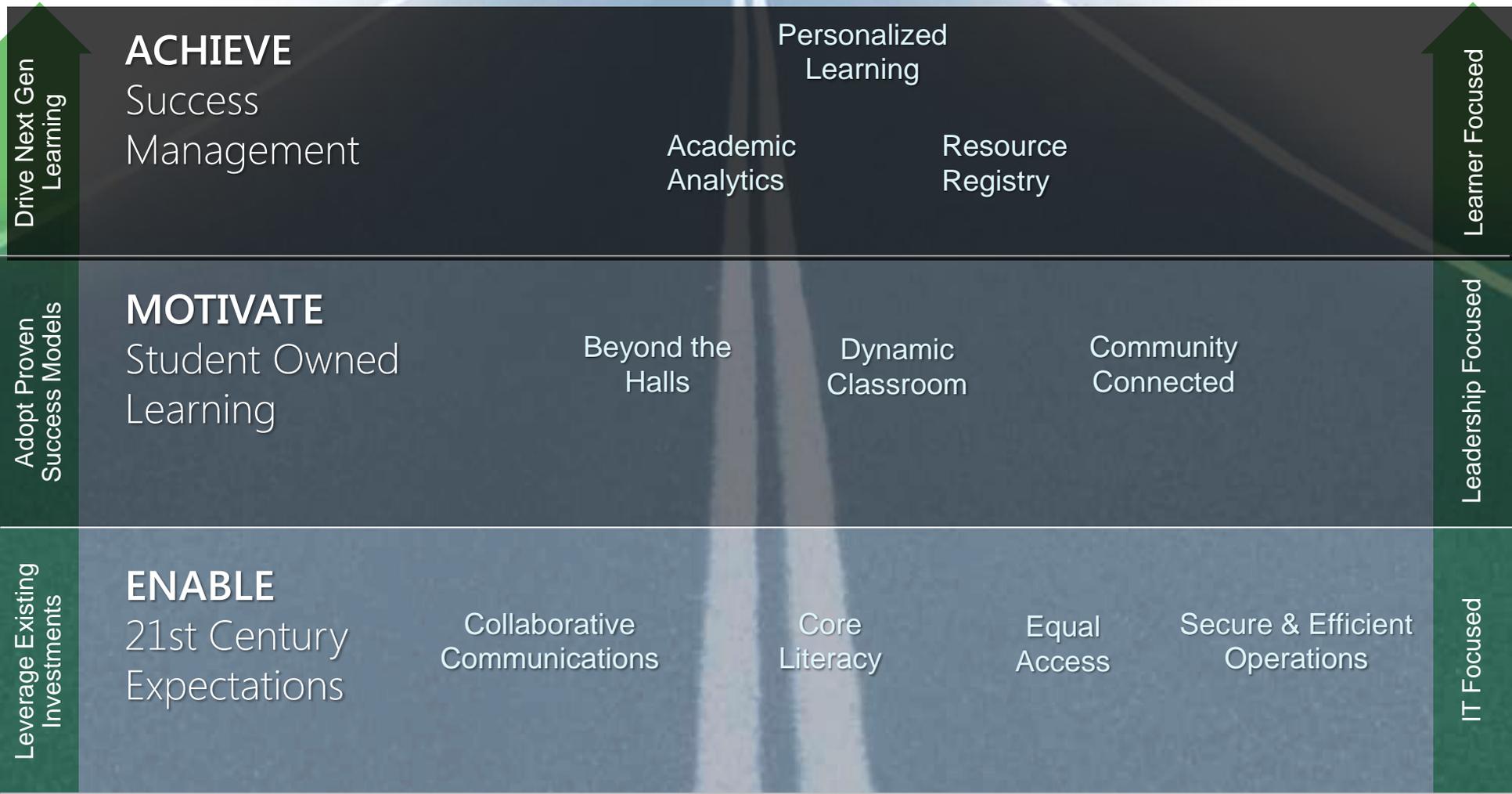
The Pathway to Next-Generation



College Ready



Career Ready



Learner Focused

Leadership Focused

IT Focused

Next Generation Initiatives



▶ Predictive Analytics

▶ Achievement Tracking

▶ Personalized Learning Plans

▶ Adaptive Content

▶ Longitudinal Data Warehouse

▶ Educator Collaboration

▶ Student Profile & Progress Tracking

▶ User Ratings & Approval

▶ Academic Analyzer

▶ Community Engagement

▶ Student Engagement

▶ Content Pacing Plans

▶ Data Integration
▶ Reporting

▶ Identity Management

▶ Intervention Case Management
▶ Entity Relationships

▶ Competency Definitions

▶ Content mapped to Standards

Data Analytics



Information Access



Student Success Management



Standards & Curriculum



Student 360

Next Generation Maturity Model



- Level 1 
- Level 2 
- Level 3 
- Level 4 



How Arizona will Get There

With Student 360



- Level 1 
- Level 2 
- Level 3 
- Level 4 

ACHIEVE

Engaged

Personalized

MOTIVATE

Connected

Engaged

ENABLE

Integrated

Data Analytics



Information Access



Standards & Curriculum



Student Success Management



Maturity Levels Defined



While many Arizona Districts have higher Maturity Levels. From a State of Arizona view we are driving to personalize opportunities for all students and districts.

Without the RIGHT Technology Solutions with State owned Data the journey is improbable!

Where is Arizona Right Now!

We are designing the frame work to ensure success tomorrow!



Arizona through the ADE with sponsorship from the Governor, House, Senate and Superintendent has undertaken a Major Modernization Effort.....

ADE IT Modernization Effort

An Update!



▶ Successes:

- SAIS Phase 1, II,III, IV Governor Funded Infrastructure complete Oct 2011... \$1M project
 - System Available for FY12: Jul 11 2011...First time in 10 yrs
 - 40 Day Aggregation for FY 12 completed on schedule (We completed FY11 in May of 2011) First time in 10 yrs
 - Over 600 Customer Requests/Bug Fixes implemented in 10 months...More than the last 10 years!
 - Kicked off Great Plains ADE Financial System Replacement (6 Months)
 - Kicked off AELAS Program



ADE IT Modernization Effort

Data Governance Board Established



- ▶ Data Governance Board Established in Aug 2011
 - Public Meetings Conducted in Sept and Oct
 - Initial AELAS Strategy approved to go forward
 - Great Plains ERP (Enterprise Resource Planning) System approved.
 - Approved SAIS Reverse Engineering Effort to determine the cost and alternatives to replace this important system.
 - Nov Data Governance Board on 17 Nov 2011
 - Submitted ADE proposed To-Be Enterprise Architecture for approval...Allows framework for future development!
 - Submitted FIM as ADE Identity Management Solution for Approval...Provides Security for Students and Teachers!



ADE Modernization Effort Roadmap – AELAS Year 1



8/11

11/11

9/12

Kick Off Program
•State School BRD.
•Data Governance
Committee

•Start Business Case
Development.
•Define Standard ADE
Architecture.
•Gather AELAS
Requirements.

•Interview Small,
Medium and Large
School Districts
•Continue Require
Build
•Prototype Architecture

• Deliver Business Case
to State School Board
•.Delivery Completed
Requirements to Build
RFP's
•Deliver ADE Standard
Architecture Blue Print

AELAS Vision

- **"Vendor Agnostic" Ed services deployed to Districts that wish to subscribe (ex. SIS, Assessment, and Back Office applications)**
- **"Pay For Service" model**
- **Allows for PARRC assessment**
- **Analytics deployed to Teachers / Administrators**



ADE Modernization Effort

AELAS – Education MIS Timeline

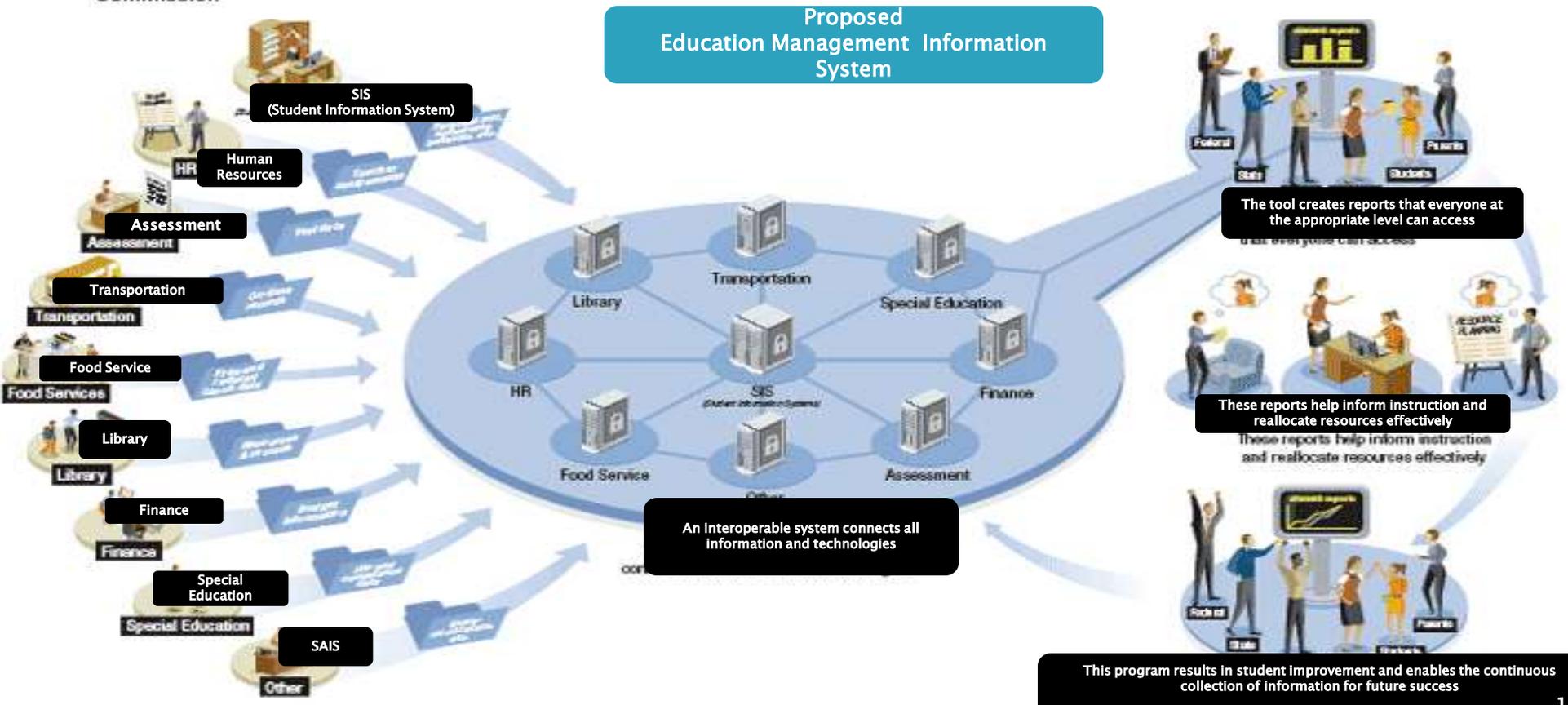


- Year 1**
- "Map the Mess"
 - Define Services
 - Develop Requirements
 - Business Case
 - Prepare RFP
 - Statewide Student/Teacher Identifier recommendation
 - Establish Data Governance Commission

- Year 2**
- Prepare Service RFP
 - Select Vendors to Build Platform
 - Support Services
 - Pilot Test District Selected

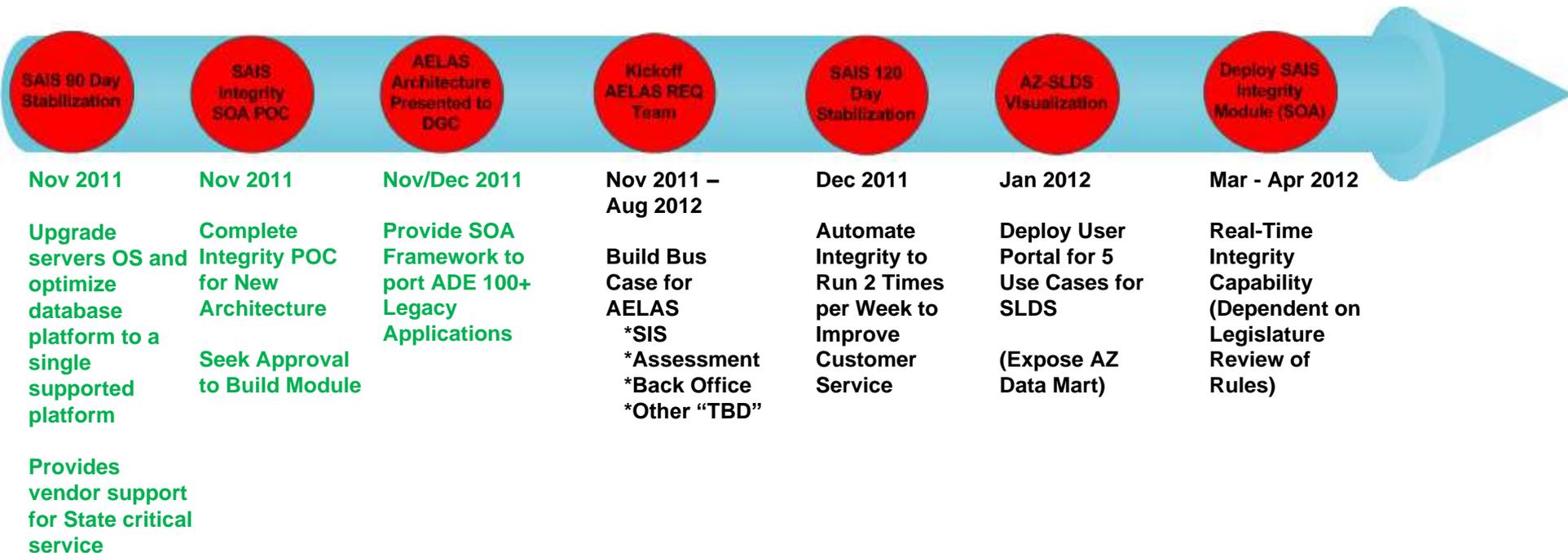
- Year 3**
- Design
 - Implementation
 - Begin State Implementation
 - Training Centers

- Year 4**
- Continue Rollout



ADE IT Modernization Effort

IT Roadmap – Updates



SWOT ANALYSIS on delivering a successful State-Wide integrated total student management tool.

Giving Teachers, Parents, Districts a complete 360 view of a student

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Strengths

- Executive leadership (Governor, Legislative) supports the effort to replace SAIS
- Executive IT leadership has experience in delivering multi-phased multi-million dollar projects
- Aligns with Superintendent's view on how education should be transformed
- Alliances with MCESA , NAU, and ASU
- Current Data System (SAIS) is being stabilized to bridge the gap for a short-term (3 years)
- Current SLDS provides 50 measures and thousands of demensions....The front-end will be modernized to ensure ease of use

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Opportunities

- Will help State, districts, schools, teachers make data-driven decisions to improve student learning/facilitate achievement/close achievement gaps to better prepare for competitive global marketplace
- Rebuild, strengthen education community and all stakeholder relationships (Business, Higher Ed)
- Successful implementation can translate into strategic public relations event
- Innovation/technology development will make ADE/State of Arizona leader in educational tech community-at-large
- Reduce overall IT spending in the future through consolidation efforts

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Weaknesses

- Stakeholders/consitutuents alliances/partnerships due to poor past performance is a potential hurdle to get needed support/trust/cooperation
- Available grant / budget dollars undefined and not yet approved
- Lack of standard Data Governance - difficult to transform disparate data sets
- Data collections requirements/definitions are dynamic
- Necessary resources to deliver effort will be sourced from vendors/resource to create infrastructure /platform design required to support future data system

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Threats

- Multiple project approval stages thus causing potential bottlenecks or roadblocks
- Cost of system more than currently allocated/budgetd
- Loss af alliances and partners if project not delivered in 3 years
- Certain stakeholder groups may become hostile: District/School IT staff and/or SMS/SIS vendors
- Competitors new products and innovation
- Loss of future funding / grants if system not updated

Questions

