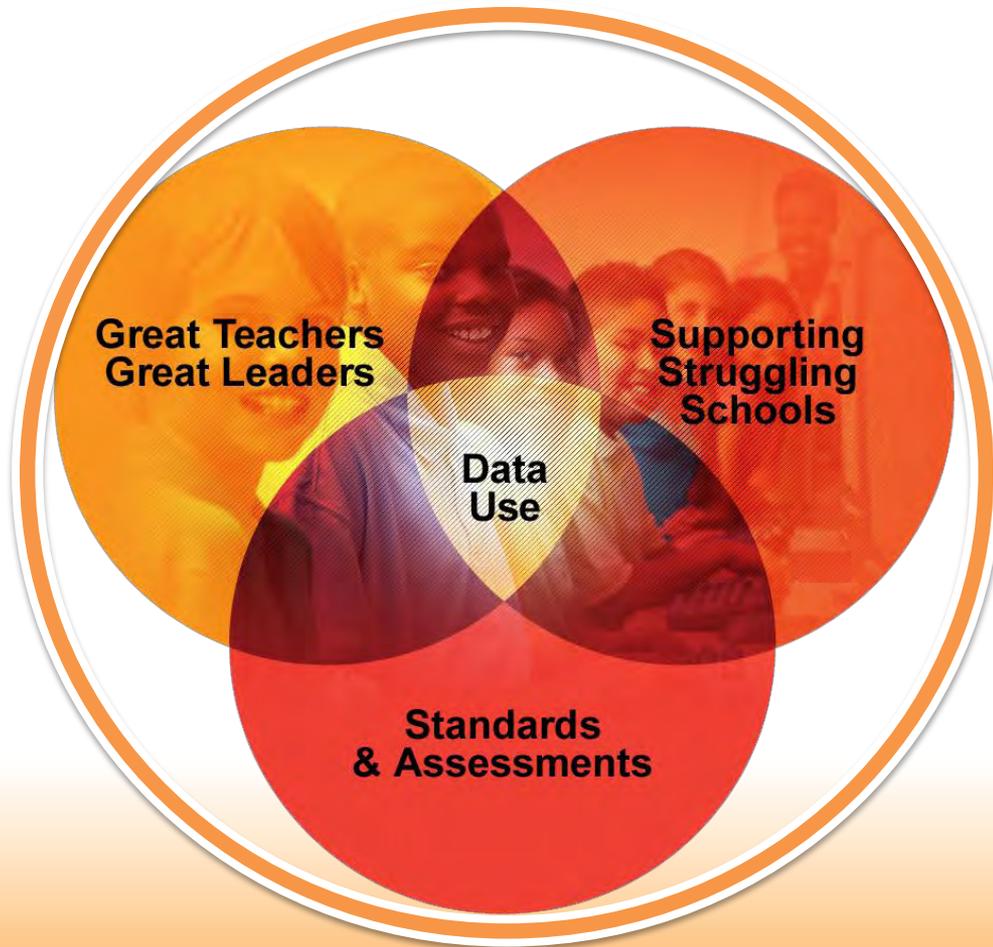


# The AELAS Proposal



# The AELAS Proposal

How can Arizona redirect millions of dollars currently spent on school administration while increasing education services and resources to help students become college and career ready?

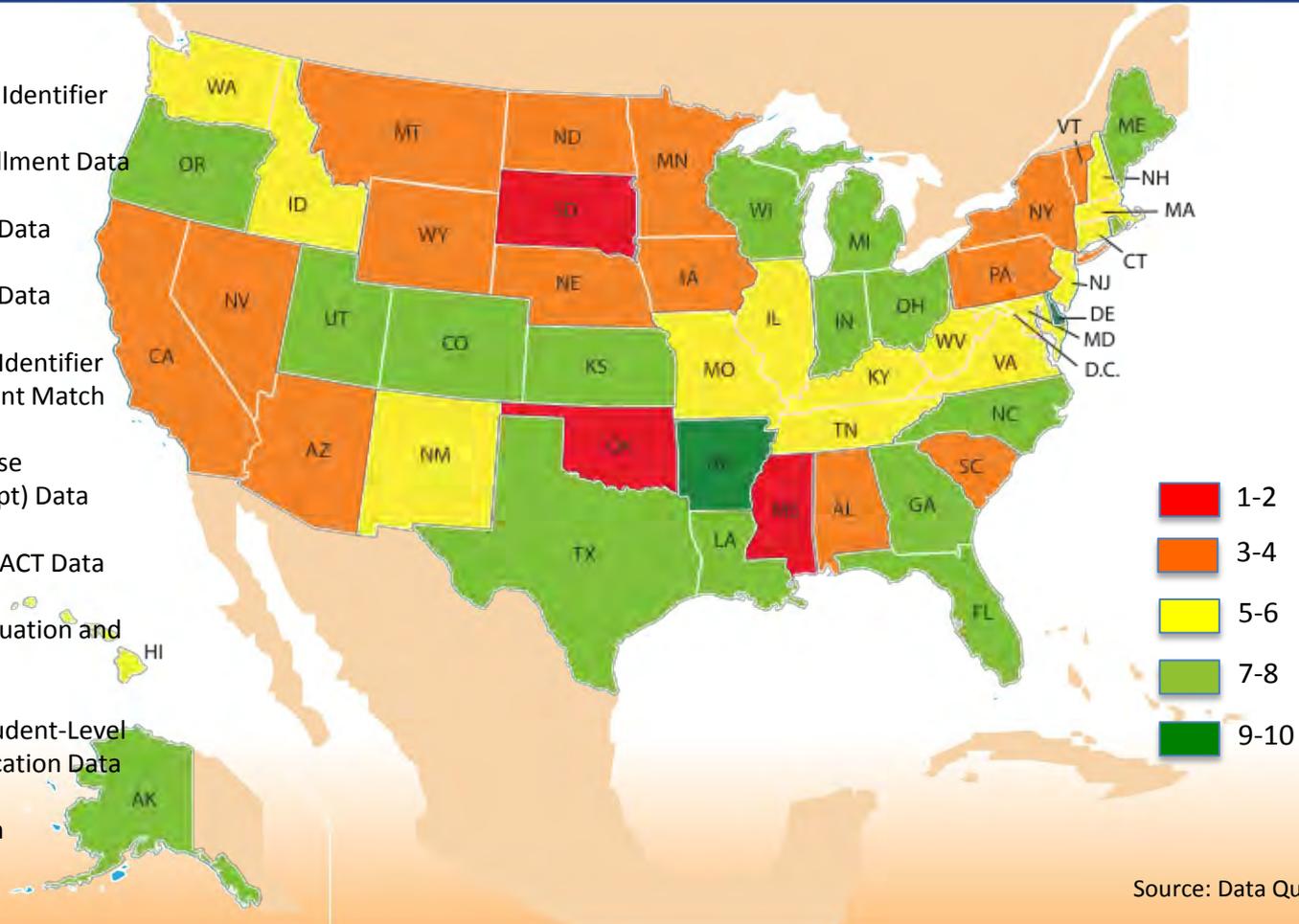
**The answer is simple.**

By completing the design and implementation of the statewide education data system as proposed today, those funds spent on redundant and inefficient systems can be moved into the classroom.

# National Comparison – Essential Data Elements

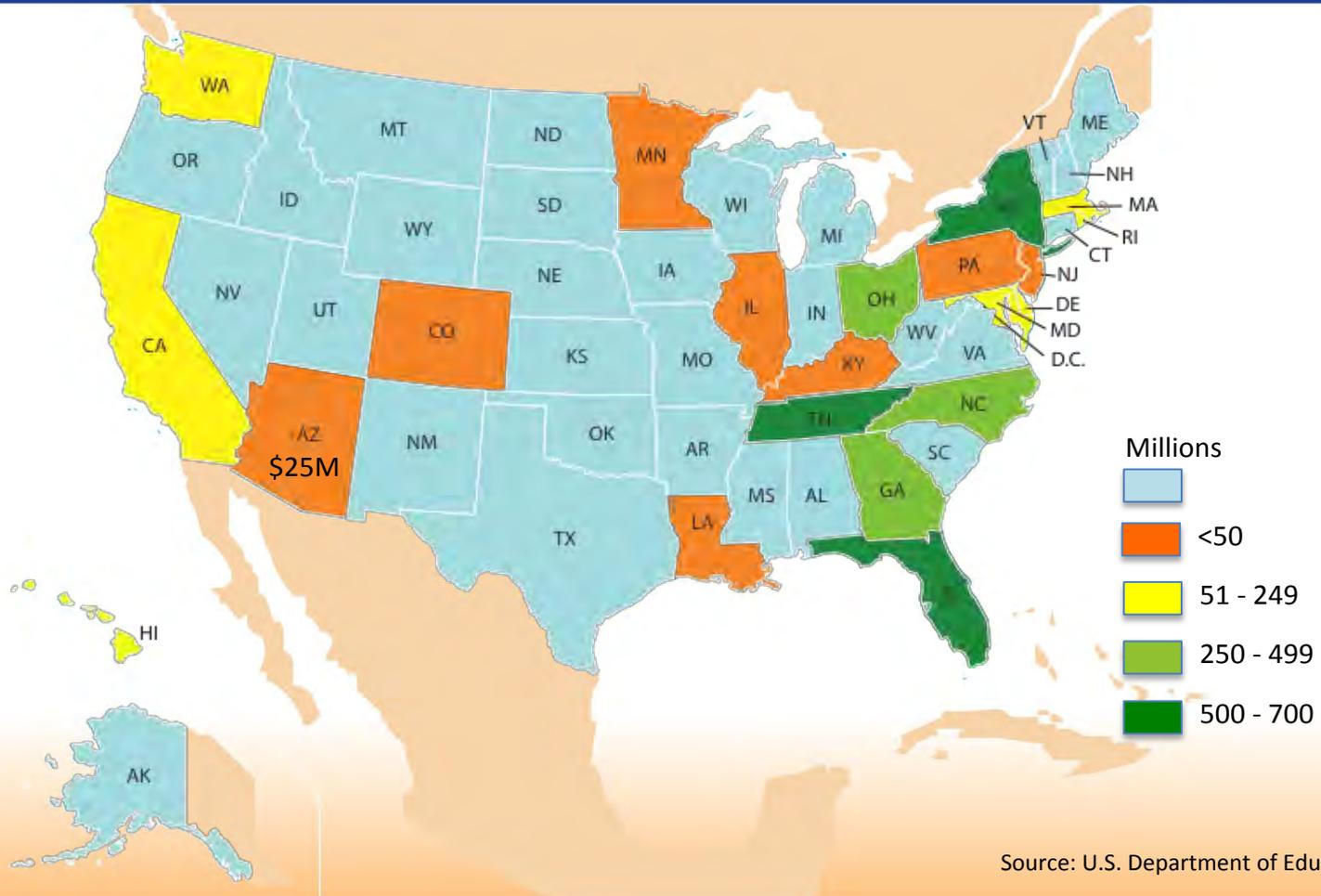
## 10 Elements

1. Statewide Student Identifier
2. Student-Level Enrollment Data
3. Student-Level Test Data
4. Untested Students Data
5. Statewide Teacher Identifier with a Teacher-Student Match
6. Student-Level Course Completion (Transcript) Data
7. Student-Level SAT, ACT Data
8. Student-Level Graduation and Dropout Data
9. Ability to Match Student-Level P-12 and Higher Education Data
10. Data Audit System



Source: Data Quality Campaign

# National Comparison – Race to the Top Funding



# Current State of Arizona Education

## Technology System at High Risk

- 2.3 million transaction errors
- \$5.8 billion thru antiquated system
- Significant risk to business continuity
- \$30 million expended correcting data errors

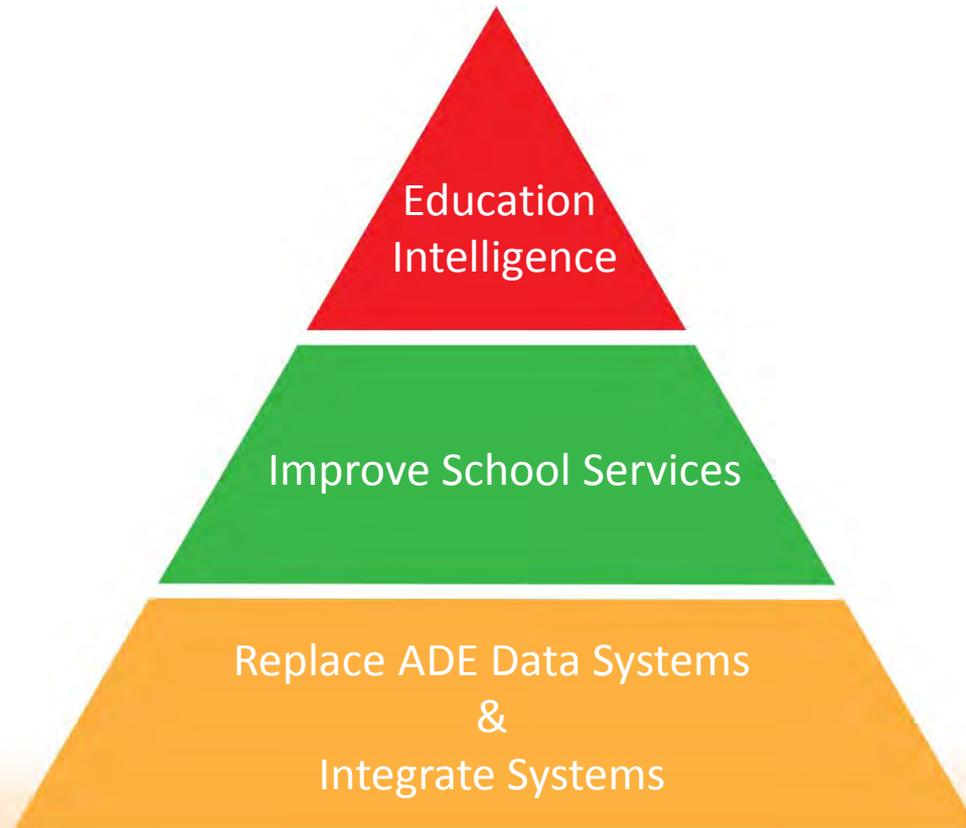
## At Local School Systems

- \$281 million spent annually on redundant software systems and hardware
- \$155 million spent annually on nine critical systems to support instruction
- Small schools spend 7 to 10 times more than larger schools
- Robust school choice results in high student mobility and lost valuable instructional time

# Vision of Arizona Education – Data Logistics



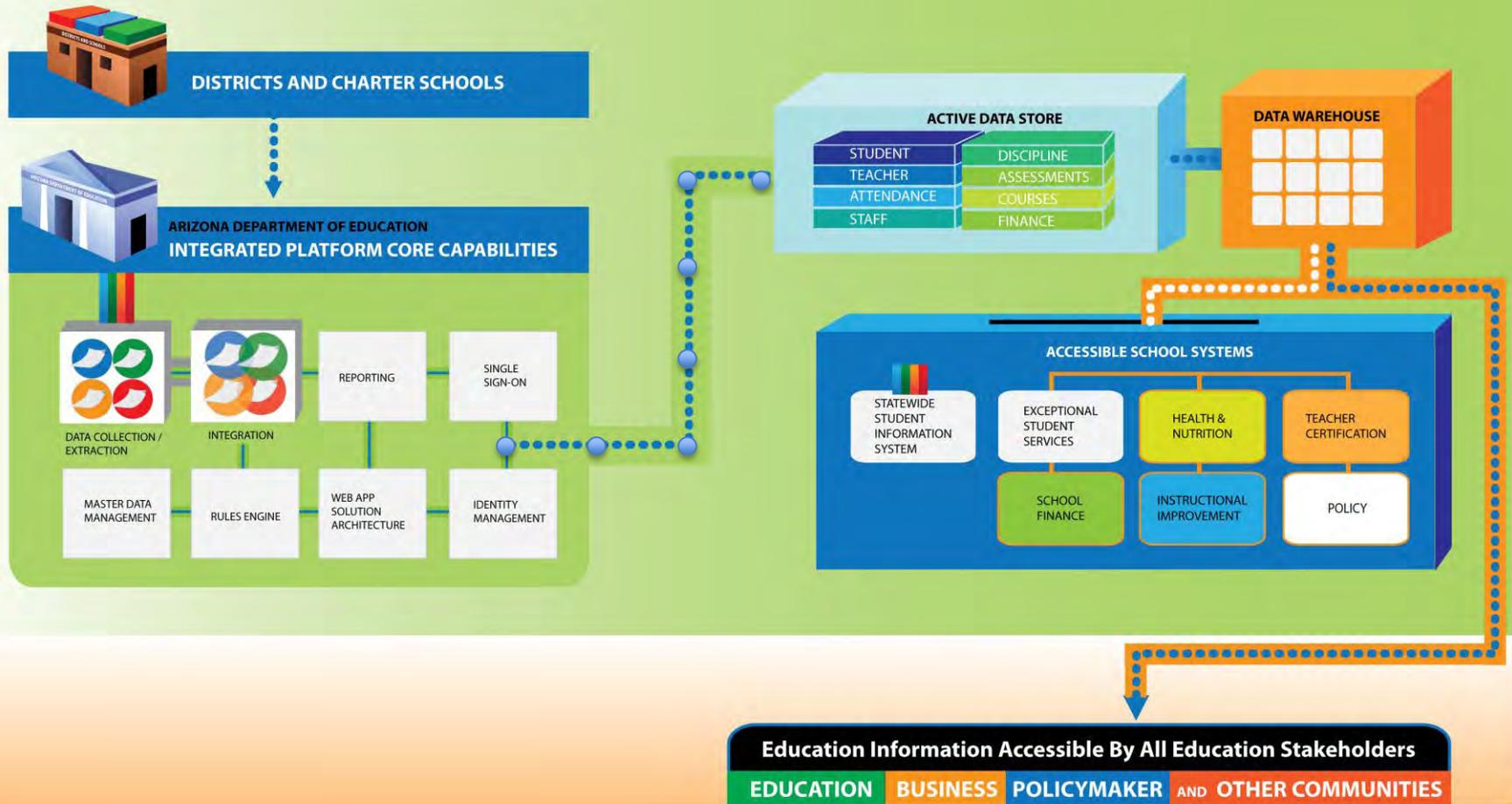
# Mission of Arizona Education – Proposition Hierarchy



# Centralized Opt-In Systems for Schools



# Shared Services



# Education Information and Intelligence

DEMOGRAPHICS

SCHOOL DASHBOARD

## Student Profile



NAME: \_\_\_\_\_  
 GRADE: \_\_\_\_\_  
 ETHNICITY: \_\_\_\_\_  
 BIRTH DATE: \_\_\_\_\_  
 PROGRAMS: \_\_\_\_\_

### ATTENDANCE

2008 2009 2010 2011 2012

TREND



	Low Risk	Medium Risk	High Risk	2008	2009	2010	2011	2012
ATTENDANCE								
HOMEWORK								
BEHAVIOR								
ASSESSMENT								
READINESS/PASS GRADE								



STUDENTS



EDUCATORS



FAMILIES

# Dashboards Support Instruction



SLDS DASHBOARD PILOT



District:  School:   
 Teacher:  Report:

[Logout](#)



## Chiquete, Moises Student Profile



### Student Profile For Chiquete, Moises (as of school year 2011-2012)

#### Demographics

Name: Chiquete, Moises  
 Grade: 4  
 Gender: male  
 Ethnicity: hispanic or latino  
 Birth Date: 8/10/2001  
 SPED: 1

#### Attendance

Lost Session Days

2008 2009 2010 2011 2012

10.25 15.50 19.50 1.50 6.00

Trend

#### Assessments

11-12 Spring ARS

MATH (8-381)

READ (8-488)

SCIE (4-408)

AMS Legend

8 - Meets

The score displayed is the Scale Score for the given subject

#### Enrollment History

Grade Level	Enrollment Date	Withdrawn Date	Withdrawn Reason	District	School	School Year
4	7/13/2011 12:00:00 AM			Val Unified District - 4413	Santa Valley Elementary School - 89749	2011-2012
	Student with Disability					
3	7/18/2010 12:00:00 AM	10/22/2010 12:00:00 AM		Val Unified District - 4413	Santa Valley Elementary School - 89749	2010-2011
	Student with Disability					
2	8/13/2009 12:00:00 AM			Arizona Community Development Corporation - 79947	La Paloma Academy - 79950	2009-2010
	Student with Disability					
1	8/7/2008 12:00:00 AM			Arizona Community Development Corporation - 79947	La Paloma Academy - 79950	2008-2009
	Student with Disability					
KG	8/8/2007 12:00:00 AM			Arizona Community Development Corporation - 79947	La Paloma Academy - 79950	2007-2008

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# AELAS Situation Analysis - SWOT

	HELPFUL to achieving objective	HARMFUL to achieving objective
INTERNAL ORIGIN	<p><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li><b>C</b> ADE program area expertise, knowledge and service to schools, teachers, and students</li> <li><b>P</b> Statewide adoption of data governance standards and formal IT practices</li> <li><b>T</b> Innovative architecture design enables education transformation</li> </ul>	<p><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li><b>C</b> Balance proposed business changes with current responsibilities</li> <li><b>P</b> Current insufficient management of data</li> <li><b>T</b> Current technology does not support business continuity</li> </ul>
EXTERNAL ORIGIN	<p><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li><b>C</b> Millions of dollars redirected to support teachers and students</li> <li><b>P</b> Effectively and efficiently collect data from schools</li> <li><b>T</b> Advanced analytics for all education stakeholders</li> </ul>	<p><b>THREATS</b></p> <ul style="list-style-type: none"> <li><b>C</b> Low adoption rate of centralized systems</li> <li><b>P</b> Non-compliance with governance data logistics / processes</li> <li><b>T</b> Non-interoperable systems are adopted</li> </ul>

**C** CULTURE    **P** PROCESS    **T** TECHNOLOGY

# Financial Analysis – School IT Spend

Fiscal Year (Spend and Savings In Millions)	FY14	FY15	FY16	FY17	FY18	FY19	FY20
1. Current School IT Spend (Software and Hardware)	281.0	281.0	281.0	281.0	281.0	281.0	281.0
2. Current School Spend (Nine Software Systems)	155.0	155.0	155.0	155.0	155.0	155.0	155.0
3. Projected School Spend (Nine Software Systems per AELAS Proposal)	155.0	121.1	100.1	106.3	95.4	44.0	44.0
4. Total School Savings	-	33.9	54.9	48.7	59.6	111.0	111.0
5. Redirected Savings for Investment	-	20.0	30.0	30.0	35.0	44.0	0.0
6. Net School Savings	-	13.9	24.9	18.7	24.6	67.0	111.0

# Proposed Timeframe – Centralized Systems

Centralized Software System		FY14	FY15	FY16	FY17	FY18	FY19	FY20	
1.	Number of Centralized Software Systems	5	7	7	7	9	9	9	
2.	Number of Districts and Charter Schools Adopt	20	110	314	555	600	600	600	
3.	Types of Software Systems	1. Assessment System							
		2. Student Information System							
		3. Content Management System							
		4. Learning Management System							
		5. Educator Evaluation System							
							6. Individual Education Plan (IEP) System		
							7. Substitute Management		
								8. Nutrition Management	
								9. Transportation Management	

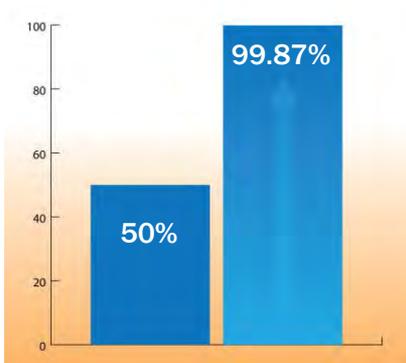
# Proposed Timeframe – ADE Systems

Replace & Integration	FY14	FY15
1. Industry Best Practices	<p>Information Technology Infrastructure Library (ITIL)</p> <p>The Open Group Architecture Framework (TOGAF)</p> <p>Project Management Office (PMO)</p>	Capability Maturity Model Integration Level 2
2. Enterprise Architecture	<p>Rollout Integrated Platform of Core Capabilities</p> <p>Integration across software systems and rollout of advanced analytics (ADE Program Areas and School Pilot Sites)</p>	<p>Rollout Integrated Platform of Core Capabilities</p> <p>Integration across software systems and rollout of advanced analytics (ADE Program Areas and School Pilot Sites)</p>
3. Data Governance	State Data Officer will enforce Master Data Management with Common Education Data Standards	State Data Officer will mandate data exchange procedures

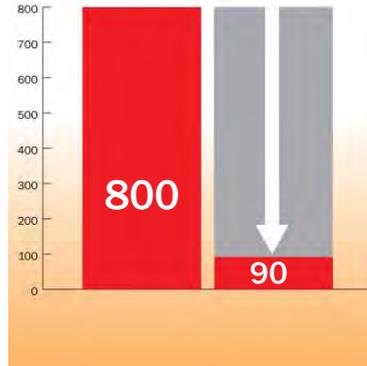
# AELAS Benefits Analysis

Explicit Degree	Type	Types of Business Change		
		Start	Continue	Stop
High = Tangible	Financial	Centralized systems (ADE and Schools)	Strict Project Management Standards (ADE Project Management Office)	Reduce data rework (ADE and Schools)
	Quantifiable	Industry practices and frameworks (ADE Program Areas)	Data governance (ADE Data Officer)	Reduce data elements (ADE Program Areas)
	Measurable	Timely data access (Schools)	Influence national standards (ADE IT)	Stop multi data requests (ADE Program Areas)
Low = Intangible	Observable	Advanced analytics (ADE IT)	LEA Participation in ADE Initiatives (ADE and Schools)	Stop firefighting mode (ADE and Schools)

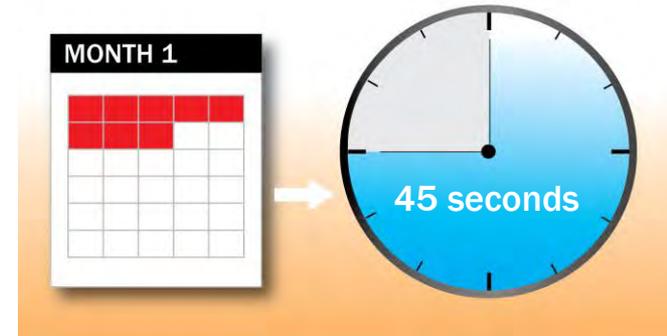
# ADE Proven Track Record – Improved Metrics



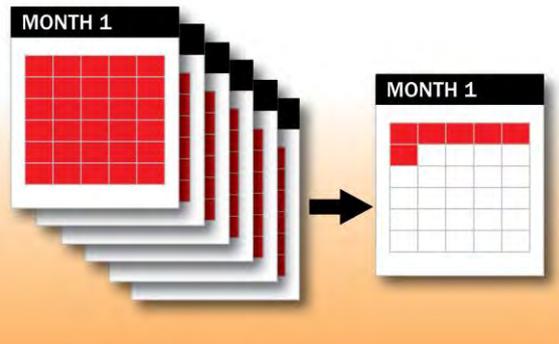
Increase System Accessibility



Reduce Customer Issues



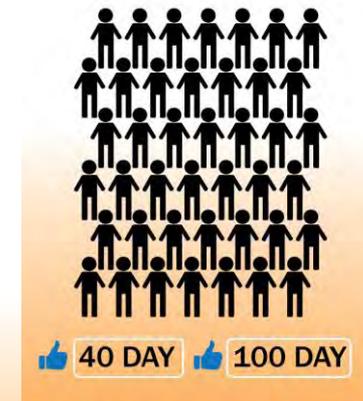
Improved Customer Service



On Time Fiscal Year Rollover

2010  
2011  
2012

Improved School Finance System Launch Time



Student Count Completed On Time, First Time

# ADE Proven Track Record - SLDS Dashboards



SLDS DASHBOARD PILOT



District:  School:  Logout  
 Teacher:  Report:  [View Report](#)

Chiquete, Moises Student Profile

**Student Profile For Chiquete, Moises (as of school year 2011-2012)**

**Demographics**

Name: Chiquete, Moises  
 Grade: 4  
 Gender: male  
 Ethnicity: Hispanic or Latino  
 Birth Date: 8/10/2001  
 SPEQ: 1

**Attendance**

Last Session Days: 2008 2009 2010 2011 2012  
 19.25 15.50 19.50 1.50 6.00

**Assessments**

11-12 Spring 4488 (MATH) 3811 (READ) 4888 (SCIENCE)

AIMS Legend: 8-10000

The score displayed is the Scale Score for the given subject

**Enrollment History**

Grade Level	Enrollment Date	Withdrawn Date	Withdrawn Reason	District	School	School Year
4	7/10/2011 12:00:00 AM			Val Unified District - 4413	Santa Valley Elementary School - 89749	2011-2012
3	7/19/2010 12:00:00 AM	10/22/2010 12:00:00 AM	Student with Disability	Val Unified District - 4413	Santa Valley Elementary School - 89749	2010-2011
2	8/13/2009 12:00:00 AM		Student with Disability	Arizona Community Development Corporation - 79947	La Paloma Academy - 79950	2009-2010
1	8/12/2008 12:00:00 AM		Student with Disability	Arizona Community Development Corporation - 79947	La Paloma Academy - 79950	2008-2009
KG	8/6/2007 12:00:00 AM		Student with Disability	Arizona Community Development Corporation - 79947	La Paloma Academy - 79950	2007-2008

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SLDS DASHBOARD PILOT



District:  School:  Logout  
 Teacher:  Report:  [View Report](#)

Student AIMS Details

**AIMS Results Mathematics For Chiquete, Moises**

**Administration Results**

School Year	Administration	Strand	Measure	Value
2012 Spring	Date Analysis, Probability & Discrete Mathematics	Percent Correct	Raw Score	75
			Raw Score	6
		Percent Correct	Raw Score	89
			Raw Score	9
		Percent Correct	Raw Score	56
			Raw Score	15
		Percent Correct	Raw Score	92
			Raw Score	11
		Percent Correct	Raw Score	88
			Raw Score	7
Total Score	Achievement Level	4	Meets	
	Scale Score		391	

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Arizona Department of Education

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# ADE Proven Track Record – School Report Card


**Arizona Department of Education**  
**School Report Cards**

John Huppenfahl, Superintendent of Public Instruction

[Home](#) | [Schools](#) | [Districts](#) | [ADE Home](#)

[Deer Valley Unified District > Park Meadows Elementary School](#)
 [PDF Report Card](#)

## Park Meadows Elementary School

Deer Valley Unified District  
 Regular Facility - In A Unified  
 School District  
 20012 N. 35th Ave  
 Glendale, AZ, 85308  
 Maricopa County

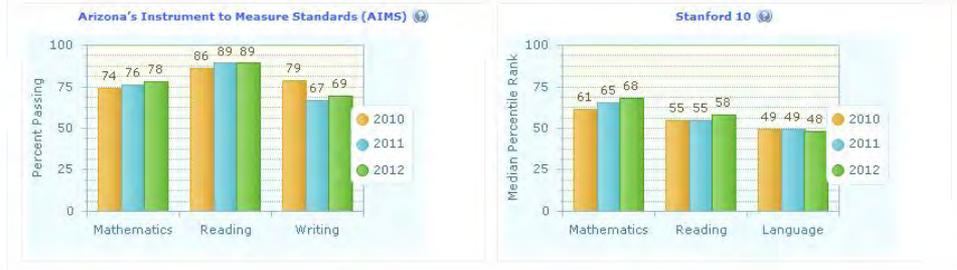
Students Enrolled: **578**  
 Grades Offered: KG through 6



## School Performance 2011-2012

The A-F Letter Grade: **A**  
 Federal School Improvement Status: **Reward**  
 Annual Measurable Objectives: **Met**

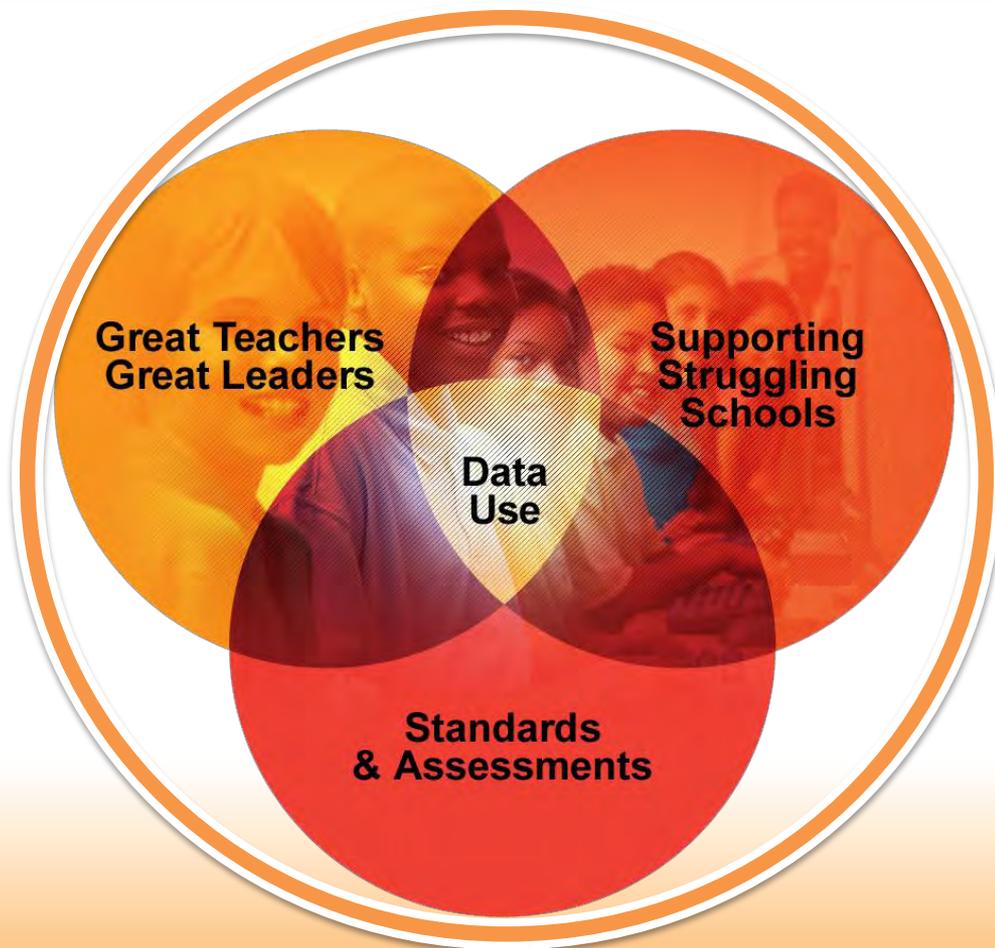
## Spring Test Results (Click on charts for more details)



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# The Time is Now



# The Choice is Simple

- ✓ Arizona is ready for the change.
- ✓ AELAS enables the change.
- ✓ ADE is poised to execute the change.
- ✓ The change yields high tangible and verifiable returns and significant benefits.
- ✓ Arizona students are the ultimate winners.