



# State of the States: Priorities, Trends and Issues

**Government Smart Card  
Interagency Advisory Board (IAB) Meeting  
March 26, 2014**

**Doug Robinson, Executive Director  
National Association of State Chief Information Officers**

# Today's State IT Landscape

- ✓ Fiscal recovery: CIOs still seeking IT operational **cost savings**, alternative IT sourcing strategies and **collaboration**
- ✓ **State CIO Balancing Act:** supporting legacy, business process transformation, innovation
- ✓ **Cybersecurity threats!** New technologies, new risks, governance is hard, collaboration needed
- ✓ **Technology as a service:** systems-centric *to* services
- ✓ State CIO transitions, continuing IT **workforce** retirements, skills gap, recruiting challenges



2013 ANNUAL CONFERENCE  
October 13-16, 2013

Philadelphia, Pennsylvania | Philadelphia Marriott

Leading Through  
Innovation and  
Collaboration



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Deloitte.

5) How would you characterize your IT budget this fiscal year? (State Government Only)

18%

A. Increased by 10% or more

45%

B. Flat

21%

C. Reduced by up to 10% or less

8%

D. Reduced more than 10%

9%

E. What budget?

What percentage of your state IT workforce is eligible for retirement in the next year? (State Government Only)

17% A. 10%

33% B. 20%

17% C. 30%

8% D. 40%

25% E. More than 40%



***View from the  
State CIOs***

**Driving the Enterprise  
Imperative**

**Balancing Legacy  
and Innovation**

# State CIO Priorities for 2014



**1. Security**



**2. Consolidation/  
Optimization**



**3. Cloud Services**



**4. Project & Portfolio  
Management**



**5. Strategic IT Planning**



**6. Budget and Cost  
Control**



**7. Mobile Services/  
Mobility**



**8. Shared Services**



**9. Nationwide Public  
Safety Broadband  
Network**



**10. Health Care**

# IT and Solution Priorities 2014

- 1. Cloud computing:** software as a service, infrastructure, platform, storage
- 2. Security** enhancement tools
- 3. Mobile** workforce : technologies, solutions
- 4. Enterprise Resource Planning (ERP)**
- 5. Virtualization:** servers, desktop, storage, applications, data center
- 6. Legacy** application modernization/renovation
- 7. Business Intelligence (BI) and Business Analytics (BA)**
- 8. Disaster Recovery/Business Continuity**
- 9. Identity and access management**
- 10. Networking:** voice and data communications, unified

CIOs seeking enterprise approaches  
and solutions - governance

Cybersecurity requires governance  
and investment

Outsourcing and the use of shared  
services models increasing

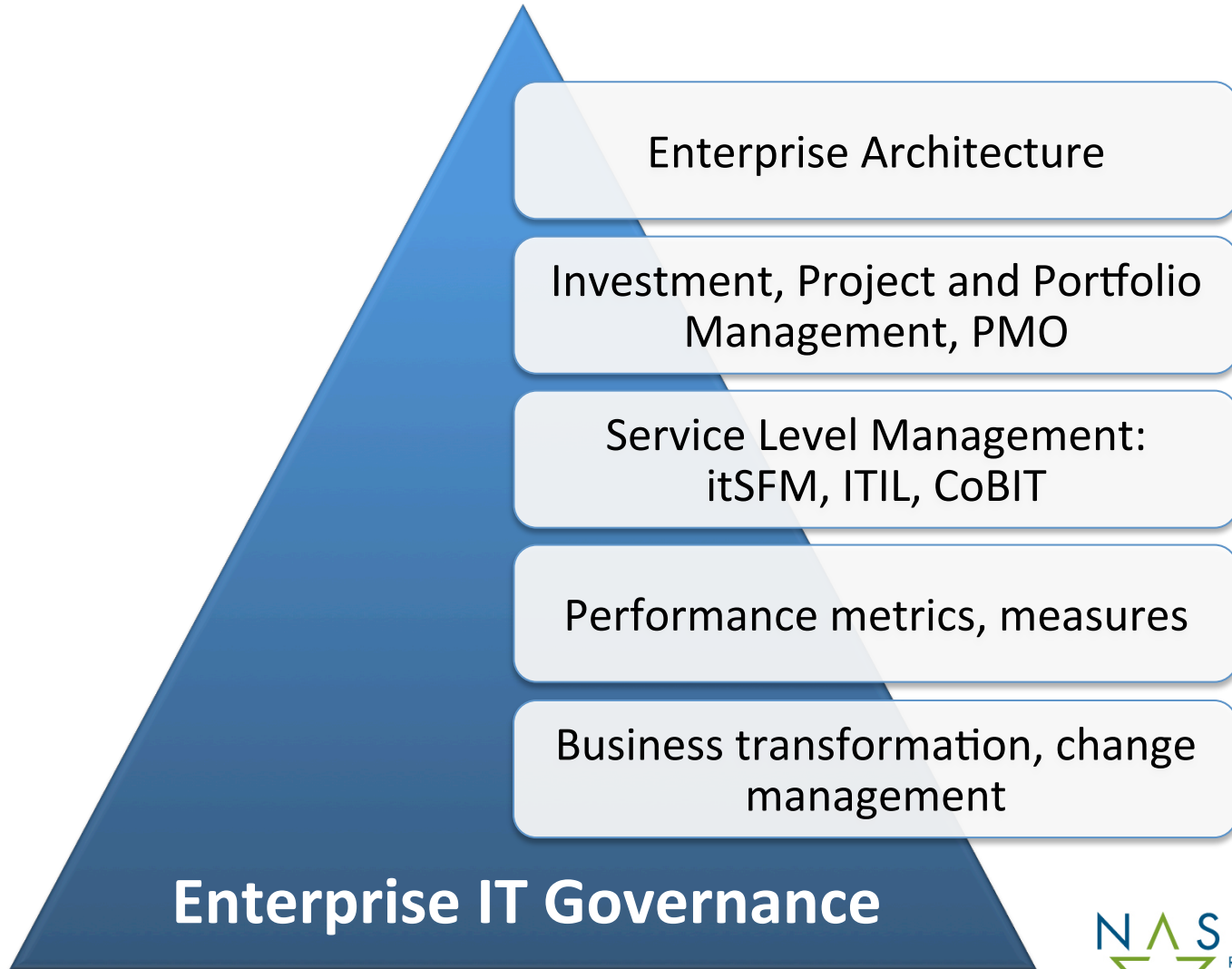
Consolidation and cloud services  
growing

Dissatisfied with IT procurement





# Growing Maturity: IT Governance, Frameworks and Business Disciplines



# IT Project and Portfolio Management



Do you use a formal IT enterprise portfolio management process to support decisions regarding planned initiatives, projects, or ongoing IT services such as application support?



How effective are your state's practices for oversight of large IT projects?



# Growing IT Security Risks in the States

Protecting legacy systems

Malicious software

Inadequate policy compliance

Mobile devices and services

Use of social media platforms

Use of personally-owned devices (BYOD) for state business

Adoption of cloud services; rogue cloud users

Foreign state-sponsored espionage

Third-party contractors and managed services

# Cybersecurity



Please characterize the current status of the cybersecurity program and environment in state government.

	Percent
Adopted a cybersecurity framework based on national standards and guidelines	78%
Acquired and implemented continuous vulnerability monitoring capabilities	78%
Developed security awareness training for workers and contractors	78%
Established trusted partnerships for information sharing and response	75%
Created a culture of information security in your state government	73%
Adopted a cybersecurity strategic plan	61%
Documented the effectiveness of your cybersecurity program with metrics and testing	47%
Developed a cybersecurity disruption response plan	45%
Other	6%

States are adopting a cybersecurity framework and implementing monitoring capabilities.

# Cybersecurity



What major barriers does your state face in addressing cybersecurity?

	Percent
Increasing sophistication of threats	83%
Lack of adequate funding	77%
Inadequate availability of security professionals	55%
Emerging technologies	42%
Lack of visibility and influence within the enterprise	25%
Lack of support from business stakeholders	21%
Inadequate competence of security professionals	19%
Lack of clarity on mandate, roles and responsibilities	13%
Lack of legislative support	12%
Other	10%
Lack of executive support	6%

# Act and Adjust: A Call to Action for Governors for Cybersecurity

National Governors Association, September 26, 2013

- Establish a governance and authority structure for cybersecurity
- Conduct risk assessments and allocate resources accordingly
- Implement continuous vulnerability assessments and threat mitigation practices
- Ensure that the state complies with current security methodologies and business disciplines in cybersecurity
- Create a culture of risk awareness.

# IT Consolidation: A Key Strategy for Years

*To address budget issues and control operational costs*

**Facilities: reducing data centers, equipment, operational costs**

**Enterprise services: networks, email, telecommunications, imaging, wireless**

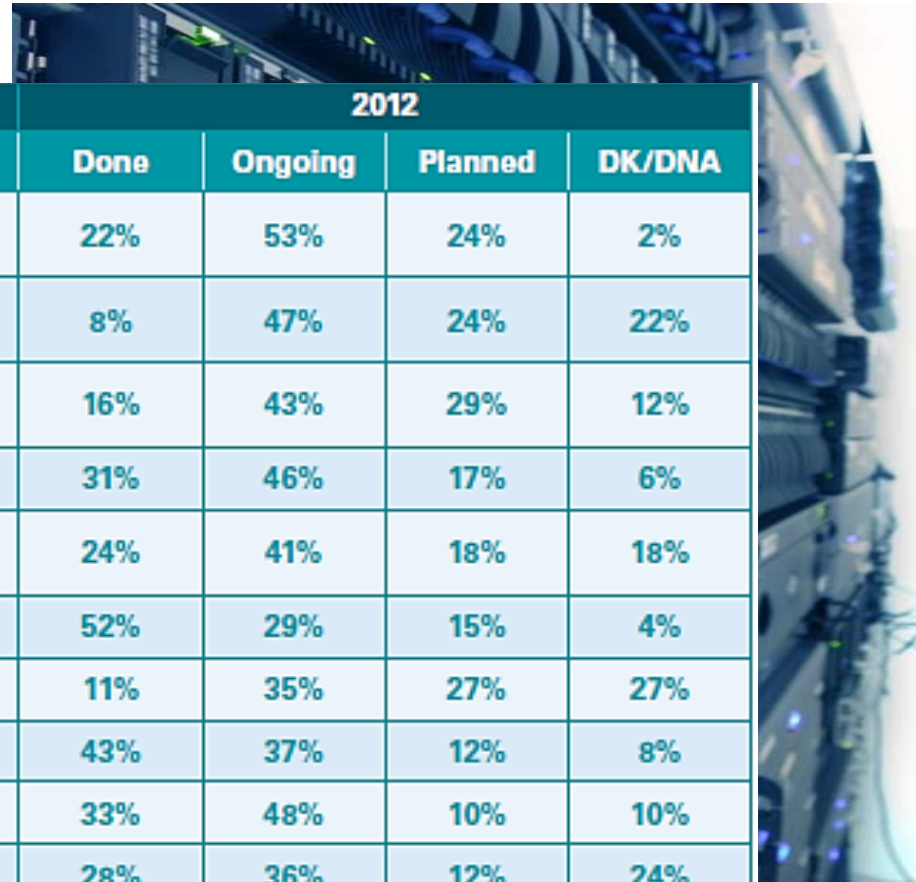
**Server consolidation: reducing footprint, operations, security impact, backup/recovery**

**Applications: enterprise, similar business functions**

**IT personnel and staffing**



# What is the Status of IT Consolidation?



Item being consolidated	2013				2012			
	Done	Ongoing	Planned	DK/DNA	Done	Ongoing	Planned	DK/DNA
Backup/disaster recovery	28%	59%	14%	4%	22%	53%	24%	2%
Business applications	19%	48%	19%	21%	8%	47%	24%	22%
Content management	15%	45%	26%	17%	16%	43%	29%	12%
Data centers	31%	60%	17%	2%	31%	46%	17%	6%
Desktop support	29%	31%	25%	20%	24%	41%	18%	18%
Email	53%	37%	10%	6%	52%	29%	15%	4%
Imaging	6%	40%	21%	35%	11%	35%	27%	27%
Security	32%	50%	20%	6%	43%	37%	12%	8%
Servers	30%	63%	16%	4%	33%	48%	10%	10%
Staff	38%	30%	23%	15%	28%	36%	12%	24%
Storage	30%	54%	18%	4%	27%	57%	8%	8%
Telecom	56%	39%	12%	4%	62%	28%	8%	2%

Source: NASCIO-TechAmerica –Grant Thornton LLP 2013 State CIO Survey



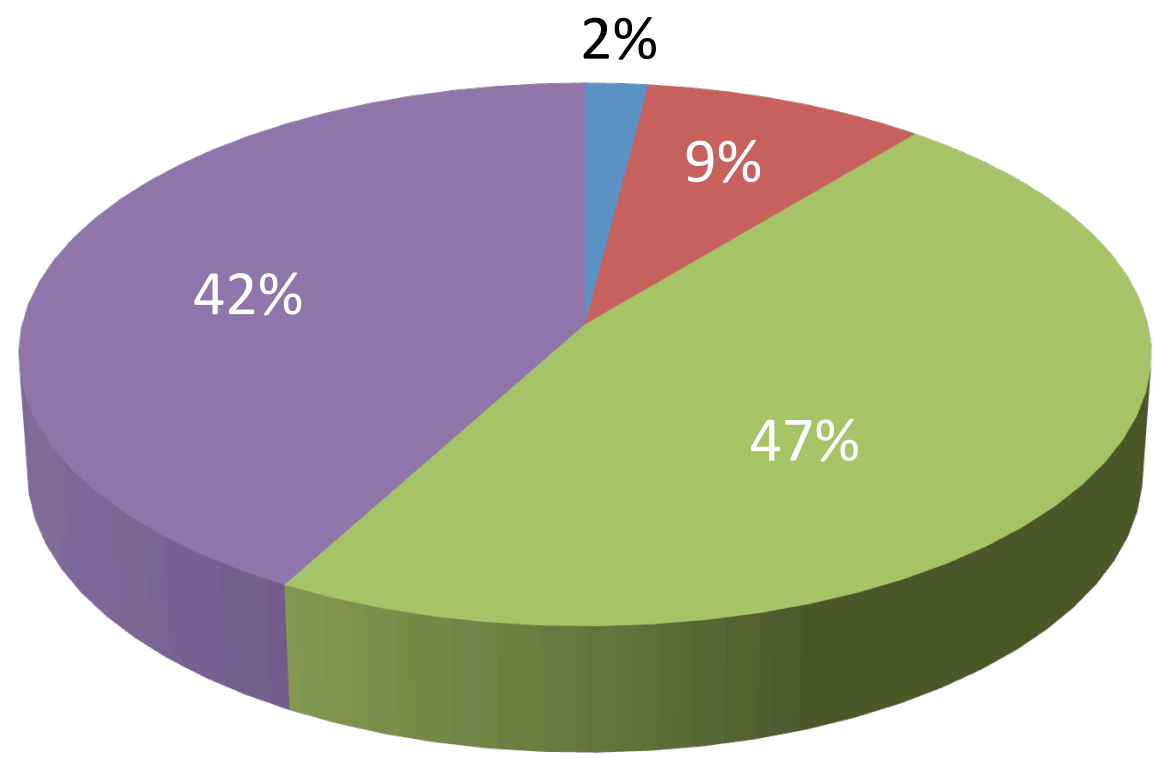
April 2013

## All Aboard! Advancing Enterprise Email Consolidation in the States



Source: NASCIO-NASTD Joint Survey, April 2013

- Project has been cancelled
- Planning stage
- Project is ongoing
- Project is done



# Enterprise email consolidation a top priority

# States Moving Toward Technology as a Service

- Cost savings and efficiency
- Flexibility and scalability
- Rapid provisioning
- Better data security



## Cloud services as an option

- Move from systems-centric to services-centric
- Shift spend from O&M to new services
- Support collaboration, transparency, insight

# Cloud Services



What is your state's status regarding cloud services?		
	2013	2012
The state is already highly invested in cloud services	6%	15%
The state has some applications in the cloud and is considering others	68%	56%
The state is still investigating cloud services	22%	19%
The state has considered cloud services but has rejected it	2%	0
Other	2%	10%
Don't know/does not apply	0%	0

## What categories of services have you migrated or do you plan to migrate to the Cloud? (select all that apply)

E-mail and collaboration	64%
Storage	48%
Geographic Information Systems	48%
Disaster recovery	44%
Program/business applications (e.g., licensing, unemployment insurance, workers' comp, etc.)	42%
Office productivity software (e.g., word processing)	37%
Digital archives/electronic records	31%
Citizen relationship management	25%
Open Data	25%
Enterprise Resource Planning	23%
Imaging	15%
Other	15%

Business objectives

Governance

Acquisition strategy

Jurisdictional issues

Security and privacy concerns

Policy and legal issues

Exit strategy



# Cloud Services



## How has your state procured third-party cloud services?

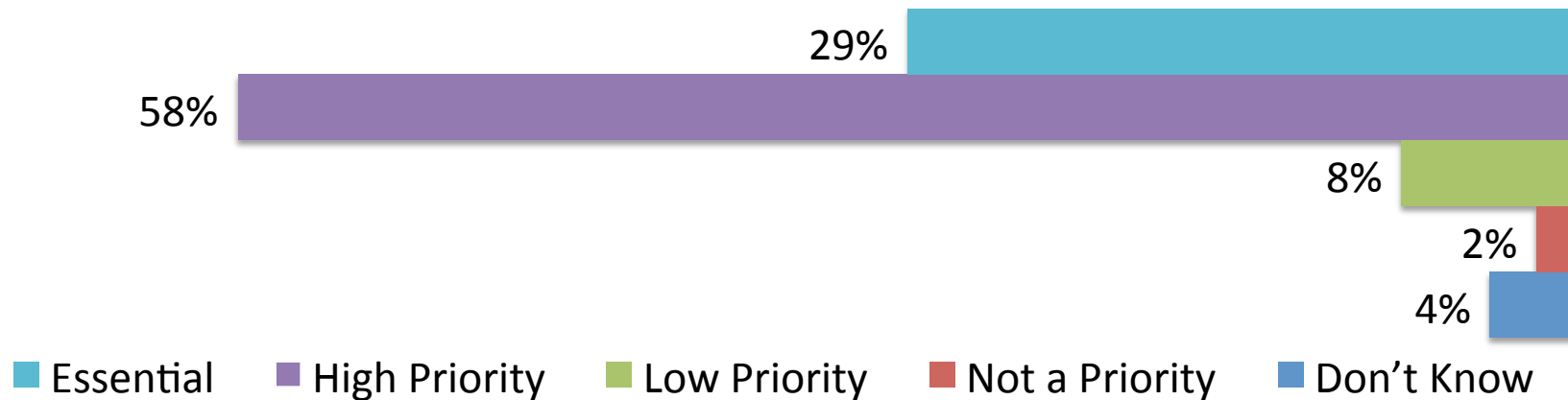
	2012	2013
Used an existing procurement vehicle not specifically designed for cloud services	65%	65%
Created a specific procurement vehicle for cloud services	44%	47%
Leveraged cloud services procurement vehicles created by multijurisdictional consortia	15%	31%
Leveraged cloud services procurement vehicles created by the federal government	6%	16%

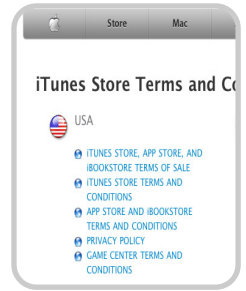
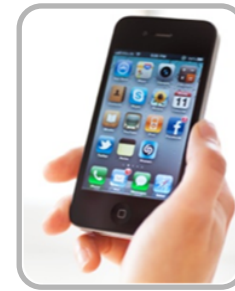


Because of state procurement challenges, expect continued growth in multistate and cooperative purchasing options in 2014.



**Within the state CIO's strategic agenda and IT operational plans, how would you characterize mobile devices and applications?**





Direction  
strategic  
or ad hoc?  
Policy?

Managing  
mobile  
devices?  
MDM?  
BYOD?

Security  
and  
privacy

Managing  
business  
and end-  
users

Lack of  
technical  
expertise:  
apps,  
security

Native  
apps, web  
or both?

Legal  
Issues?  
Terms of  
Service  
from apps  
stores?

## Considerations: Productivity, Data Sharing, Citizen Services, Mobile Apps, BYOD





## How is your state managing mobility?

	2012	2013
Totally fragmented and uncoordinated	12%	10%
A few coordinated government-wide projects and initiatives, but mostly fragmented efforts	46%	49%
Mostly coordinated government-wide projects and initiatives, a few fragmented efforts	32%	37%
All mobility projects well-coordinated government-wide	6%	0%
Don't know/does not apply	4%	4%

# Identity and Access Management (IAM)



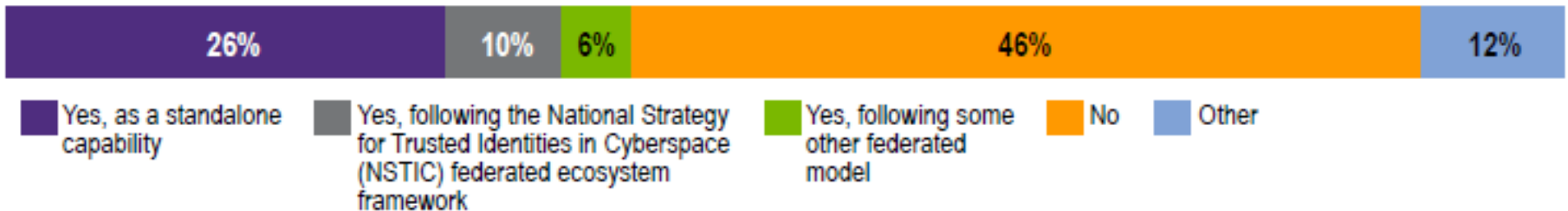
Which best describes the status of your state's current approach to identity and access management?

	Percent
Enterprise model fully implemented in the executive branch	8%
Enterprise model under way - partial implementation	42%
Still investigating an enterprise model	21%
No plans for enterprise IAM implementation	2%
Decentralized IAM at agency level	17%
No IAM initiatives at all	6%
Other	4%

# Identity and Access Management (IAM)



Has your state attempted to extend its IAM solution to identify and authenticate constituents seeking to access state services?



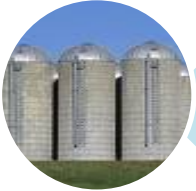
CIOs say that the most significant barriers to adoption of an enterprise IAM strategy are:

- decentralized environment of the state
- cost
- complexity of legacy systems
- lack of governance

# State CIOs Recognize Why Identity Management Needs to be a Top Priority



Support for a national framework that provides interoperability and trust across multiple jurisdictions.



Promotes state enterprise approach: avoids silos, avoids proprietary solutions. Adoption of the standards will reduce redundant credentialing efforts and expenditures.



Follows the great work the states have led in improving drivers license issuance. Provides strong proof of cardholder identity.



Supports multiple applications & legacy infrastructure: issue once, use many times.



Enables standards-based provisioning of access management and auditing

# SICAM: A Framework for State Action

## Goals and Objectives

- Trust
- Interoperability
- Security
- Process Improvements

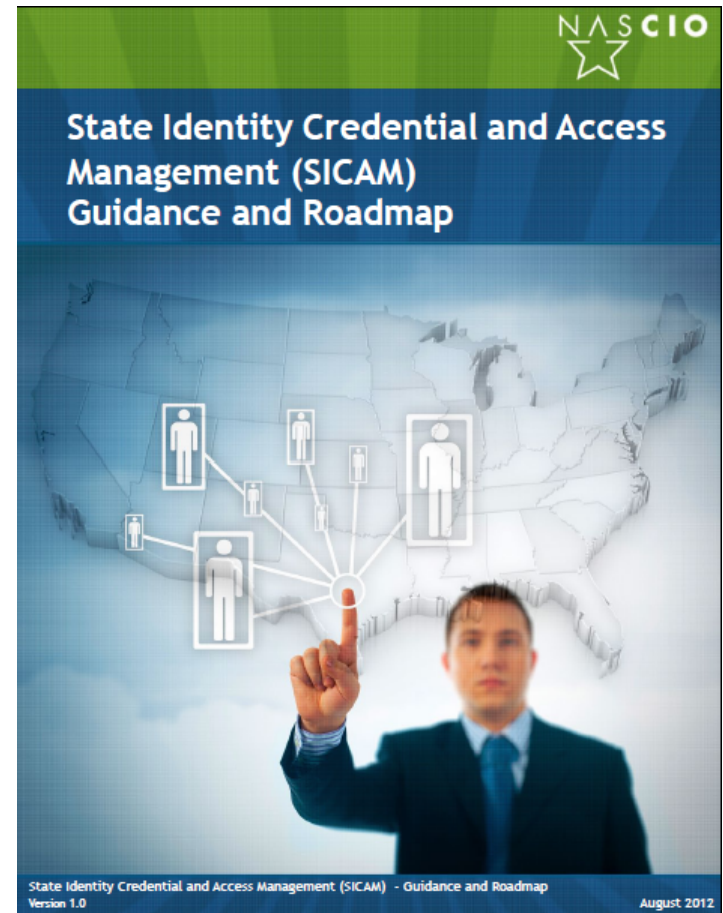
## SICAM Model for Assurance Levels

## Principles, Processes, and Concepts

## Architecture Framework

## Implementation Strategy

- Risk Assessment
- Assurance Levels
- Identity Proofing Requirements
- Attribute Management
- Governance
- Architecture Compliance



# Do I Smell State Trends?



More IT consolidation, optimization, shared services, cloud services

More social, mobile, analytics; PIV-I

NIEF QuickStart Project; NSTIC pilots in states

Growing state IAM adoption; SICAM version 2; FirstNet IAM

Digital identity ecosystem; NSTIC TrustMarks

## 2014 and Beyond...

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