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State-of-the-States 2017: Infrastructure Consolidation and Optimization











About NASCIO

- National association representing state chief information officers and information technology executives from the states, territories and D.C.
- NASCIO's mission is to foster government excellence through quality business practices, information management, and technology policy.
- NASCIO provides members with products and services designed to support the challenging role of the state CIO, stimulate the exchange of
- information, and promote the adoption of IT best practices and innovations.

2017 budget cuts in many states. Budgets for FY 2018 remain cautious - 1% growth. CIOs pressured to find **cost savings**, driving consolidation, optimization strategies.

Continued evolution from the **owner-operator** business model for CIOs - focus on services and hybrid models of delivery

Cybersecurity as a **business risk.** Ransomware, hacktivism and evolving threats. Enterprise strategy, communication and talent

Growing investments in cloud services, data analytics, mobile

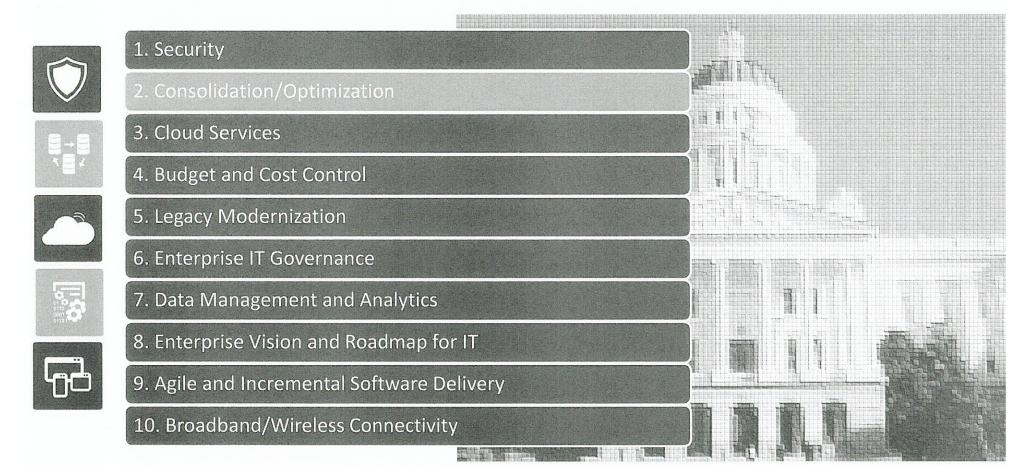
Advocating for IT modernization, agile approaches, procurement reform

Continuing IT workforce challenges: retirements, skills gap, recruiting, talent management, workplace innovation





Top Ten: State CIO Priorities for 2017



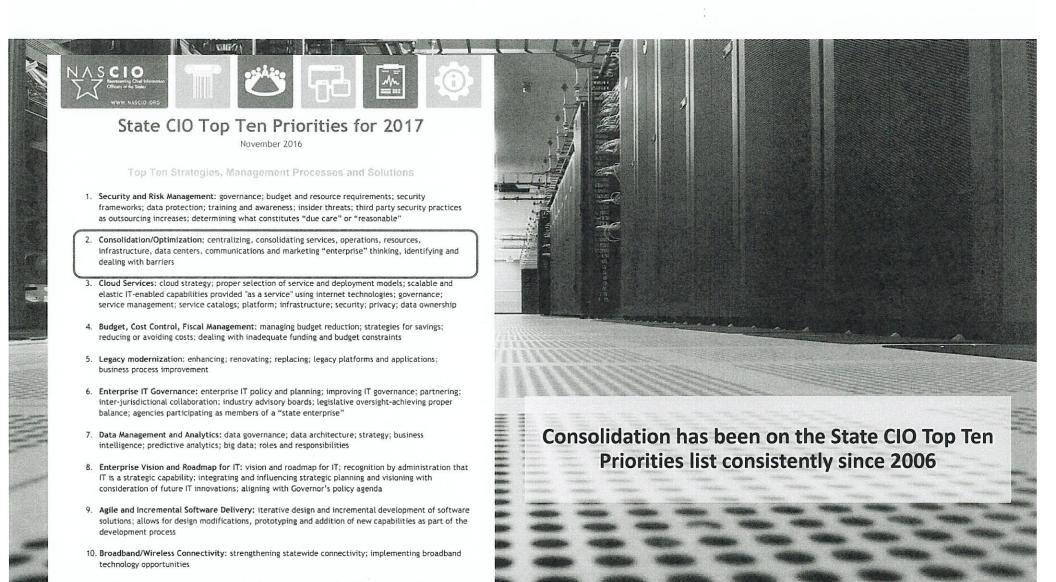


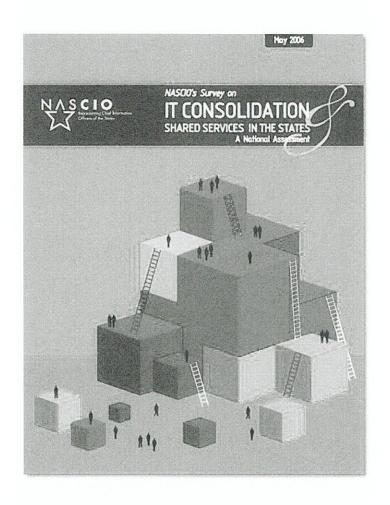












Key Findings:

"strong trend towards states consolidating key IT functions and utilizing the shared services model whenever applicable."

"most consolidation initiatives were begun in the state CIO's offices in tandem with either the governor's office or the state legislature."





Targets of Enterprise Consolidation

- Data Centers
- E-mail/Collaboration
- Telecom/Networks
- Servers
- Storage
- Desktops
- Content Management
- Security
- Help Desk
- Software Licenses











- Disaster Recovery/Back Up
- Automation Tools
- Application Development
- Business Intelligence/Analytics
- Project Management
- Imaging/Archiving
- Mobile Device Management
- Identity Management
- Contracts
- IT Staff





Rationale for IT Consolidation

Reduce diversity and complexity of environment - cost savings

Economies of scale - reduce operational costs

Strengthen IT security

Promote enterprise integration and applications

Introduce process standards: ITIL and ITSM

Improved support for legacy systems

Centralize infrastructure maintenance and upgrades

Improve disaster recovery/business continuity

Reinvestment of spend to services



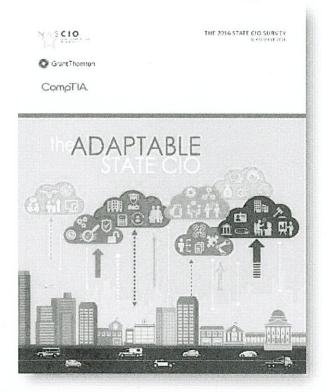








Status of Infrastructure Consolidation



2016

	DONE	ONGOING	PLANNED	DK/DNA
Backup/disaster recovery	32%	52%	13%	3%
Business applications	15%	44%	13%	25%
Content management	21%	42%	13%	26%
Data centers	42%	47%	11%	0%
Desktop support	31%	37%	20%	12%
Email	59%	35%	6%	0%
Imaging	19%	42%	12%	27%
Security	31%	56%	9%	4%
Servers	31%	65%	4%	0%
Staff	29%	33%	15%	24%
Storage	35%	54%	11%	0%
Telecom	57%	35%	7%	0%
Helpdesk	38%	28%	17%	17%
Mobile device management	37%	30%	20%	13%
Identity and Access Management	30%	39%	26%	5%
Data Warehouse/ BI/ Analytics	8%	40%	30%	22%
Project Management Office	39%	30%	17%	15%
State Portal	48%	36%	9%	7%







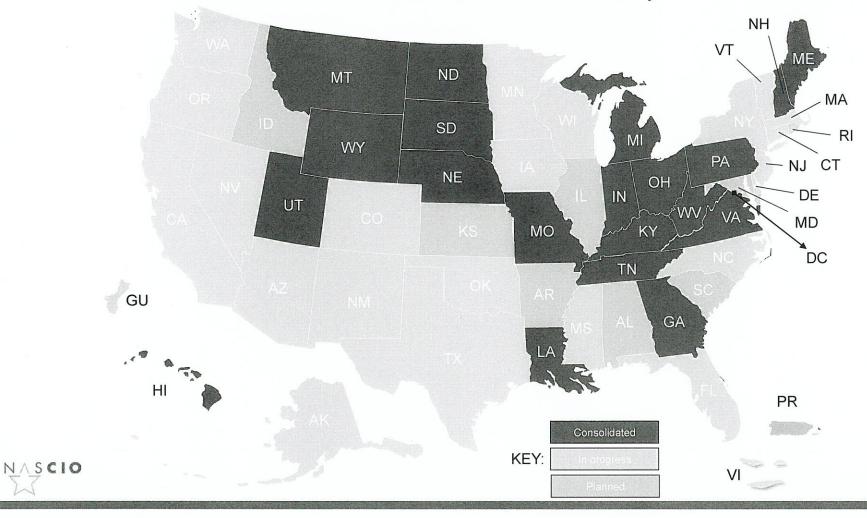






Enterprise Data Center Consolidation

Source: NASCIO 2016 State CIO Survey



Challenges to Consolidation Initiatives

Agency/workforce resistance to change

Lack of funding/investment to prepare for consolidation

Agencies desire to remain autonomous

Problems moving infrastructure from the agencies

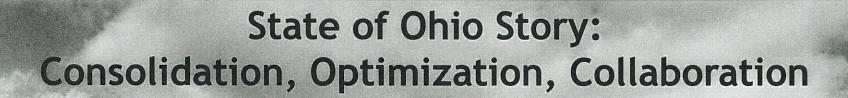
Backlash when consolidation doesn't meet agency business needs

Higher than projected costs

Seeking exemptions from federal statutory and regulatory requirements







2011: 32 data centers spread across 26 cabinet agencies, over 9,000 servers, and 19 different email systems

Data center had not been updated in 20 years

Consider: buy-in from stakeholders? How to finance? Work with private sector?

IBM is private partner: \$267 million, 10-year contract

Savings to state: \$100 million+ to date

Tenants: The Ohio State University, Cuyahoga County - each see savings in millions (avoid capital investment + yearly savings)



Strong support from the Governor

Establishing trust with stakeholders

Effective governance model with a shared vision

Choosing the correct implementation strategy to ensure buy-in

Workforce impact - motivating staff through the transition

The Success Playbook

Have a plan - defined process with gap analysis

Document the "as is" - baseline of assets

Spend analysis: capture the known costs; hidden costs

Create aggressive roadmap with reasonable milestones

Establish a governance structure for shared decision-making

Engage the agency stakeholders early

Constant communication - expect resistance

Address federal cost allocation

Re-negotiate existing contracts

Manage expectations and expect surprises

Capture and report cost savings











