CoSA & Preservica Practical Digital Preservation 2017



May 23, 2017





Practical Digital Preservation 2017

Welcome!

PDP Briefings

Protecting and Preserving Long-Term Digital Information

January 24

- For IT Professionals & practitioners

The Governance of Long-Term Digital Information

May 23

- For Senior Managers & Budget Administrators



Sarah Grimm
Wisconsin Historical Society

PDP "Hot Topic" Webinars Tuesdays 2-3pm Eastern

Preserving and Protecting Audio-visual Files
 April 11

Preserving Digitized State Government Records
 May 9

Best Practices in Digital Preservation: International Perspective
 June 13

PDP Online Workshops - Digital Preservation 101:

'State Archives and Agencies Putting Digital Preservation into Action'

Part 1: Practical Training in the Key Concepts
 February 14

Part 2: Practical Training in the Key Concepts
 February 28

Part 3: Case Studies
 March 14

Sign up today on the CoSA website – PERTTS Portal > Education - Training



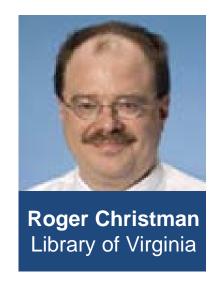


Today's Presenters













Agenda

- Welcome & Introductions
- The Governance of Long-Term Digital Information: Action Required Doug Robinson, Executive Director - NASCIO
- CoSA: State CIO Support & Services
 Sarah Koonts, State Archivist North Carolina
- Deriving Value From Long-Term Digital Information Lori Ashley, Industry Market Development Manager - Preservica
- Challenges and Opportunities Associated with Capturing & Preserving Email Roger Christman, Records Archivist – Library of Virginia
- Q&A







Doug Robinson

Executive Director, NASCIO





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.





Expect 2017 budget cuts in many states - revenue growth of 2%. 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







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







TopTen: State CIO Priorities for 2017











- 1. Security
- 2. Consolidation/Optimization
- 3. Cloud Services
- 4. Budget and Cost Control
- 5. Legacy Modernization
- 6. Enterprise IT Governance
- 7. Data Management and Analytics
- 8. Enterprise Vision and Roadmap for IT
- 9. Agile and Incremental Software Delivery
- 10. Broadband/Wireless Connectivity





Top Ten: State CIO Priorities for 2017









3. Cloud Services



4. Budget and Cost Control



5. Legacy Modernization



6. Enterprise IT Governance



7. Data Management and Analytics



8. Enterprise Vision and Roadmap for IT

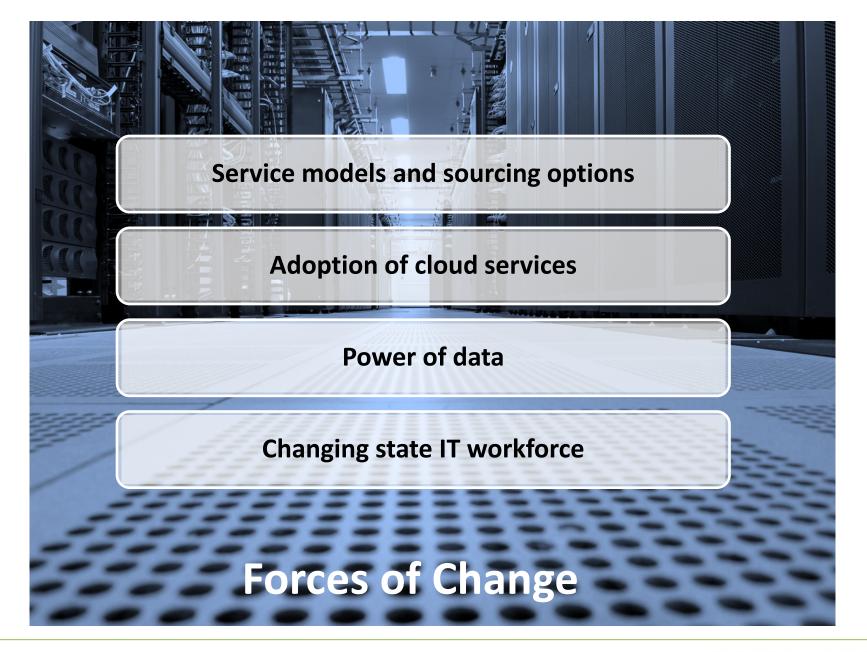


10. Broadband/Wireless Connectivity

Where does digital preservation fit with these strategic priorities?









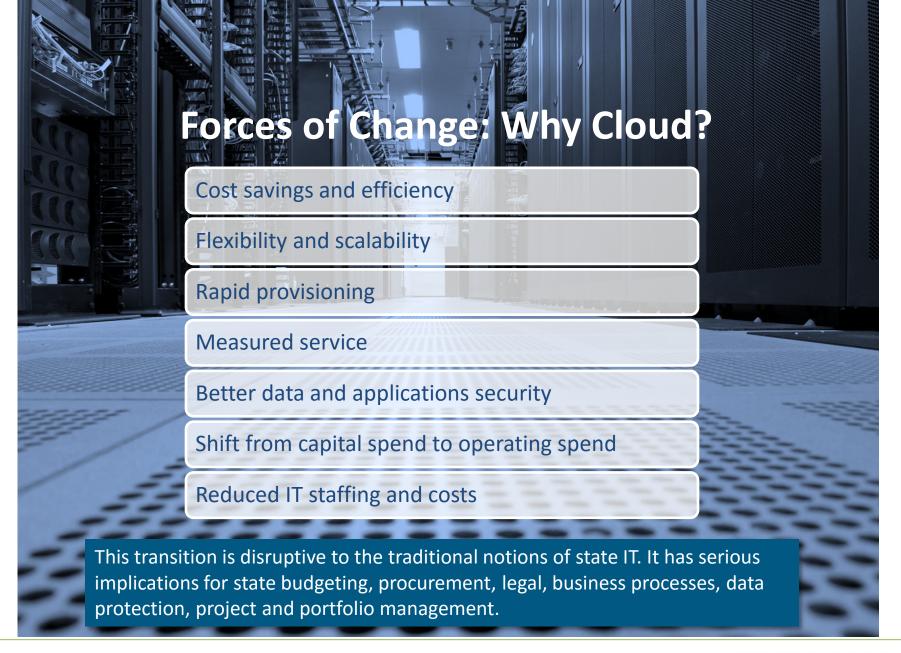


Adaptable

How does your state CIO organization plan to deliver or obtain IT services over the next three years?	2015	2016
Expand existing IT shared services model	62%	72%
Outsource business applications through a SaaS model	55%	66%
Expand existing managed services model	53%	61%
Downsize state-owned-and-operated data center(s)	49%	28%
Expand outsourcing	43%	45%
Introduce a managed services model	26%	17%
In-source some operations that currently are outsourced	17%	19%
Introduce outsourcing as a new service model	15%	17%
	Grant Tho	rnton Co



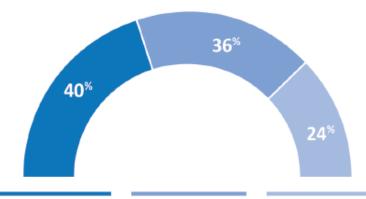








Does your organization have a strategy to migrate legacy applications to the cloud?



Yes, cloud migration strategy in place No, but cloud migration strategy in development No cloud migration strategy planned



Where applications have been migrated to the cloud, what percentage of the applications are hosted in each of the following models?

applications are hosted in each of the following models?		
ioliowing models:	2016	2015
PRIVATE : Hosted by a single organization and made available to other government users	51%	46%
PUBLIC : Hosted by a third-party entity and openly available	25%	15%
COMMUNITY : Used by a specific community of organizations with a shared purpose	9%	11%
HYBRID : A composition of two or more of the above	16%	28%

Source: NASCIO 2016 State CIO Survey





Moving to Cloud



Source: NASCIO 2016 State CIO Survey

What categories of services have you migrated or do you plan to migrate to the cloud?	DONE	ONGOING	PLANNED	TOTAL
Disaster recovery	5%	30%	50%	85%
Citizen relationship management	11%	30%	20%	61%
Digital archives	9%	28%	39%	76%
E-mail and collaboration	32%	38%	21%	91%
Electronic records	0%	36%	34%	70%
Enterprise Resource Planning (e.g., finance, budget, procurement)	5%	37%	21%	63%
Geographic Information Systems	13%	31%	17%	61%
HR / payroll / time and attendance	5%	21%	37%	63%
Identity Management	5%	21%	32%	58%
Imaging	0%	20%	22%	42%
Learning Management Systems	14%	35%	20%	69%
Office productivity (e.g., word processing)	21%	43%	17%	81%
Open data	26%	28%	19%	73%
Program/business applications (e.g. Licensing, Unemployment Insurance, Workers Compensation, etc.)	13%	38%	21%	72%





7. Which business model will drive your investments in the next 5 years? (state members only)

29% A. On-Premise, Centralized/Enterprise Model

17% B. On-Premise, Distributed/Federated Model

43% C. Off-Premise, Centralized/Enterprise Model

10% D. Off-Premise, Distributed/Federated Model





State Government Data Landscape



Data stored across multiple systems from multiple agencies in multiple formats



Data quality issues: dirty and messy



Lack of standards, consistency



Data sharing is difficult – format, language, access, culture, myths



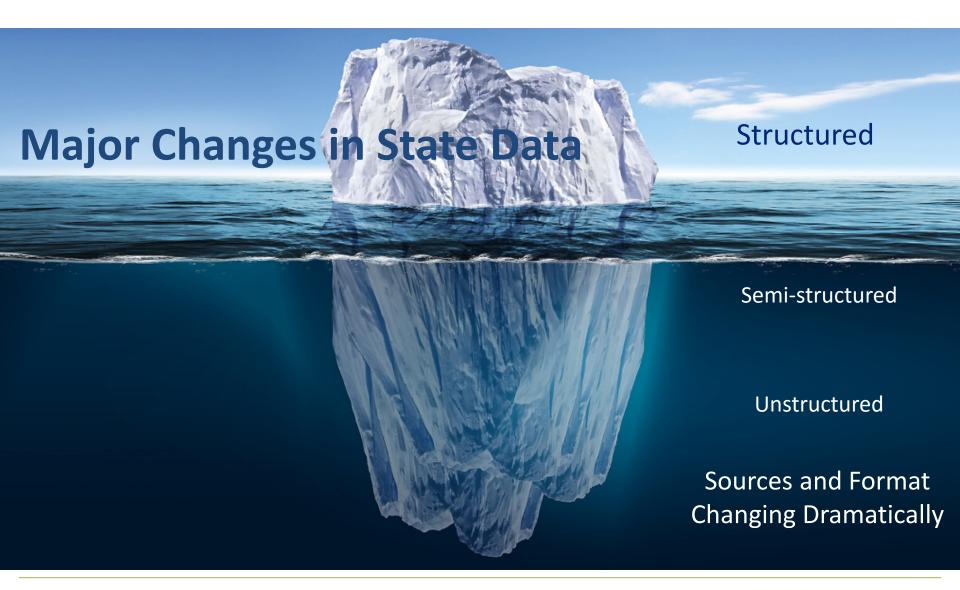
Security risks and privacy issues



Little insightful, usable data on "customers"





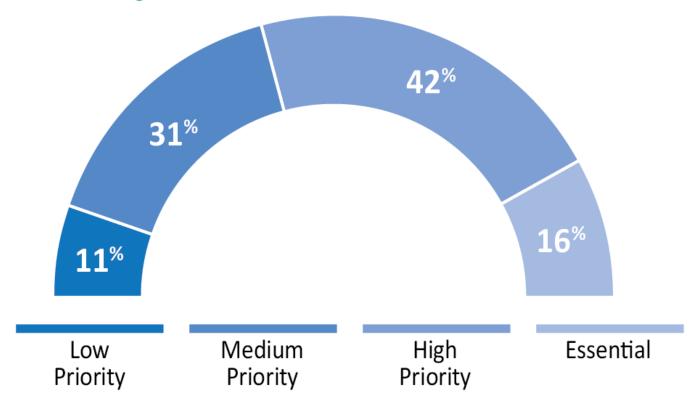






Data Governance and Analytics

Within the state CIO's strategic agenda and operational plans, how would you characterize data governance and management?



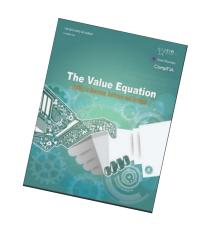


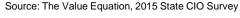


Managing Data as a Strategic Asset

How would you characterize your data management function in terms of importance and maturity?



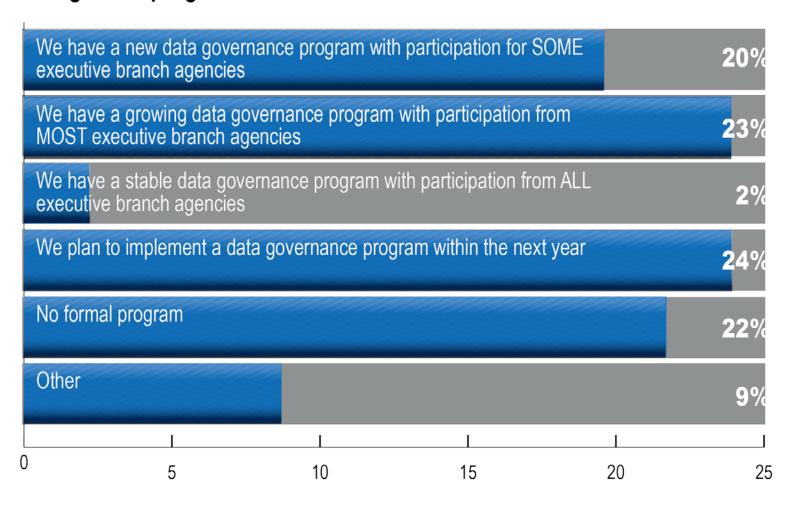








Which best describes the scope and breadth of your state's enterprise data management program?



Source: The Value Equation, 2015 State CIO Survey

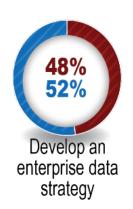


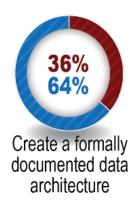


Enterprise Data Management

What is the current and recommended role of the State CIO Organization in Enterprise Data Management?









Current

Recommended

Source: The Value Equation, 2015 State CIO Survey





Call to Action



Electronic Records Management and Digital Preservation: Protecting the Knowledge Assets of the State Government Enterprise

PART I: Background, Principles and Action for State CIOs



Ready for the Challenge? State CIOs and Electronic Records

Issues, Opportunities and Best Practices

In 2007, NASCIO recommended the following Calls to Action for the State CIO:

- Partner actively with your electronic records
 management and digital preservation function to develop
 strategies for proactively managing records and digital
 archives.
- 2. Support an enterprise approach to electronic records management and preservation.
- 3. Require attention to electronic records management and preservation in capital investment proposals, and project plans.
- 4. Create an electronic records management and digital preservation domain under the Enterprise Architecture program to foster collaboration, shared decisions and common enterprise solutions.





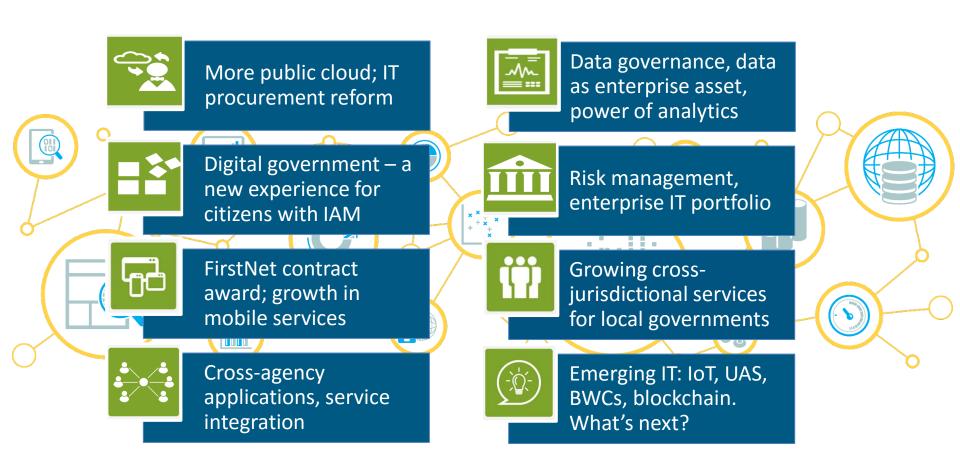
What Do We Know? Patterns of Success







Looking Forward...State IT











drobinson@nascio.org









Council of State Archivists



Organization serving the 56 state and territorial archives

- Responsive programs and services
- Awareness and advocacy
- Information access and collaboration
- Sustainability

Recent Initiatives

- State Electronic Records Initiative (SERI)
- Intergovernmental Preparedness for Essential Records (IPER)







PERTTS PORTAL **SHRABS** CONNECT **PROGRAMS** RESOURCES



ADVOCACY FOR **ARCHIVES**

Position papers, advocacy alerts, resources and tools for effectively making the case that archives are critical to healthy, functioning democracies.



EMERGENCY PREPAREDNESS

Supplementary materials specifically designed by CoSA to introduce and enhance emergency preparedness training for state archives.



STATE ELECTRONIC RECORDS INITIATIVE (SERI)

The PERTTS Portal (Program for Electronic Records, Training, Tools and Standards) provides information on managing and



STATE HISTORICAL **RECORDS ADVISORY BOARDS (SHRABS)**

Centralized location for answers that cover the who, what, when, where, and why of State Historical Records Advisory Boards with

State Electronic Records Initiative (SERI)

- Education and Training
- Digital Preservation Capability Self-Assessments
- PERTTS Portal (https://www.statearchivists.org/pertts/)
- Archives Collaborating and Cooperating with External Strategic Stakeholders (ACCESS)







CONNECT PERTTS PORTAL PROGRAMS RESOURCES SHRABS

ABOUT

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PERTTS Portal

Education-Training

SERP Framework

Policy

Strategy

Governance

Collaboration

Technical Expertise

Open Standards / Neutral Formats

Designated Community

Electronic Records Survey

Ingest

Storage

Device / Media Renewal

Integrity

Security

Preservation Metadata

Access

Related/Additional Framework Topics

Flectronic Records Resources

SERP Framework

Background

One of the goals of the State Electronic Records Initiative (SERI) is to assist State Archives with increasing their understanding of and capabilities for managing and preserving digital materials. To create a baseline, each State and Territorial Archive took the "Self-Assessment Survey" in 2012. States will be asked to retake their Self-Assessment periodically to see how their programs have improved after going through SERI training programs and educational events. The Framework elements are the same as the sections found in the Self-Assessment.

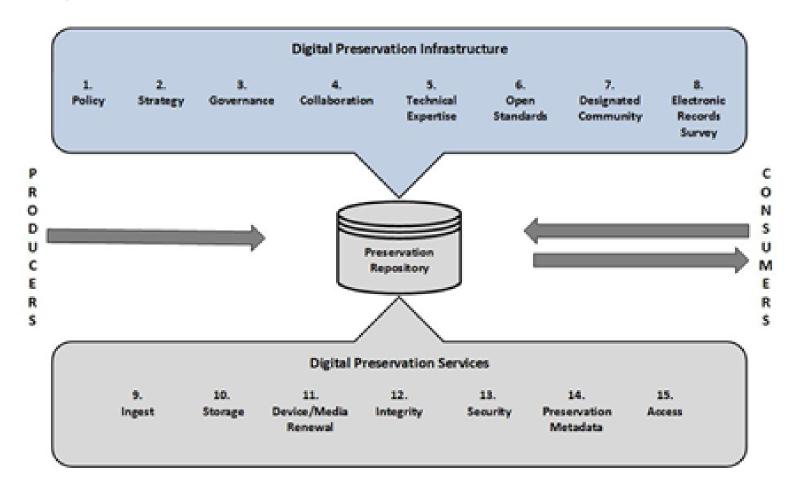
Framework Description

The SERP Framework was developed as one tool to help archive programs improve their scores on the Self-Assessment. The Framework element are the same as the sections found in the Self-Assessment. The Self-Assessment was based on earlier versions of the Digital Preservation Capability Maturity Model. [Newer versions of the DPCMM are worded differently and may not match the Framework provided here.]

In addition to recounting the "Levels" used in the Self-Assessment, the SERP Framework - where possible - provides information on how to move between levels to assist with increasing preservation capabilities. The steps between the levels are often self explanatory, however sometimes the levels do not have simple steps to get between the levels and may seem to change ideas. In either case, suggestions on how to reach the next level are provided.

NOTE: Because the Framework is based on the DPCMM there are a lot of assumptions being made about compliance to OAIS and TRAC. Currently the majority of state archives are not able to fully comply with these standards for a variety of reasons - keep this in mind as you work through the levels. Recause while reaching and meeting these

Digital Preservation Capability Maturity Model (DPCMM)



A free, public version of the Digital Preservation Capability Self-Assessment benchmarking tool used by CoSA is available at www.DigitalOK.org







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Technical Expertise

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Designated Community

Electronic Records Survey

Ingest

Storage

Device / Media Renewal

Integrity

Security

Preservation Metadata

Access

Related/Additional Framework Topics

Electronic Records Resources

Glossary

Bibliography

Case Studies and Examples

Governance

DEFINITION: The state/territory has a formal decision-making framework that assigns accountability and authority for the preservation of electronic records with permanent historical, fiscal, operational or legal value, and articulates approaches and practices for trustworthy digital repositories sufficient to meet stakeholder needs. Governance is exercised in conjunction with information management and technology functions and with other custodians and digital preservation stakeholders such as records producing units and records consumers and enables compliance with applicable laws, regulations, record retention schedules, and disposition authorities.

Level 0	The state/territory does not specifically address digital preservation requirements in the scope of current governance activities.
Level 1	A project-based digital preservation governance framework is operational or has been successfully completed.
Level 2	The operational state/territory-wide digital preservation governance framework identifies the various roles of stakeholders in the preservation of electronic records.
Level 3	Level 3a: An operational state/territory-wide digital preservation governance framework is in place that assigns accountability and authority for the preservation of electronic records. Level 3b: The state/territory digital preservation governance framework specifies an on-going commitment to the sustainability of an ISO 14721 conforming archival repository.
Level 4	The operational state/territory-wide digital preservation governance framework for digital preservation is reviewed and updated at least every two years to take into account changing technologies and new organizational structures.

Resources

Resources associated with the Governance Framework elements assist with providing background information and useful examples that can be consulted when trying to develop a policy or move forward in the area of policy

Shared Areas of Interest

- Data across the enterprise
- Value of data
- Governance of data
- Legacy data of enduring value





Think of CoSA and Your State Archives for Collaboration on:

- Continuity Planning
- Cost Savings
- Classification

Community of Best Practices







American Samoa Office of Archives and

Deriving Value From Long-Term Digital Information

Lori Ashley

Industry Market Development Manager





2016 IGI Results



98% of practitioners report that their organizations have digital records and information they keep or need to keep for **more than 10 years**

Source: Information Governance Initiative, April 2016



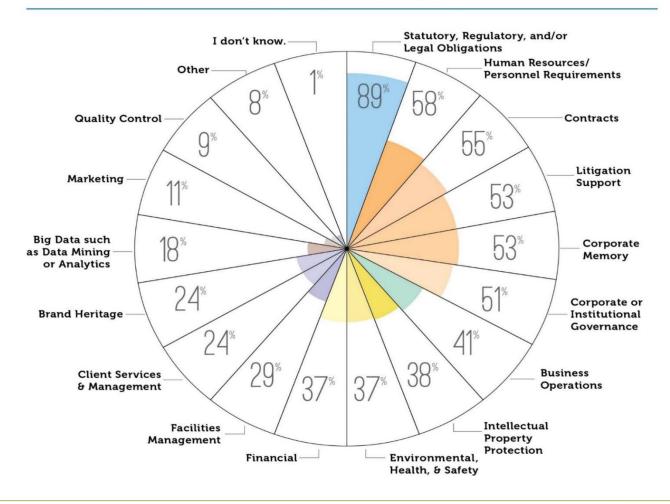






MOST ORGANIZATIONS HAVE DIGITAL RECORDS AND INFORMATION THEY KEEP LONG TERM BECAUSE OF THEIR IMPORTANCE

Organizations Report a Variety of Reasons Why They Keep Digital Information







What Prevents Us From Realizing Business Value?

2017 IGI Results

The Top 3 Challenges.

Factors preventing organizations from getting business value from their long-term ditigal information.

2

We lack personnel dedicated to this issue

Our capability in this area is informal or immature

We lack the proper tools or technology



15.

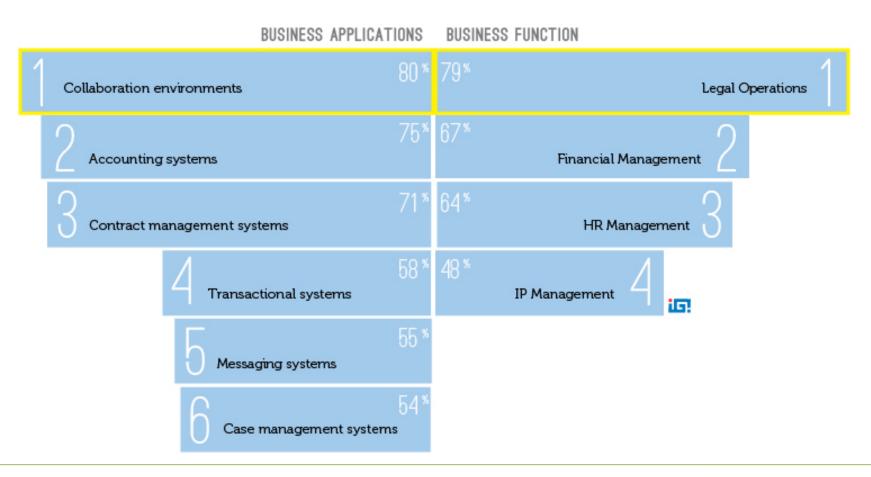




The Departments and Applications That Rely Most On Long-Term Digital Information

2017 IGI Results

A majority identified these business functions as requiring - and business systems as containing - long-term digital information.





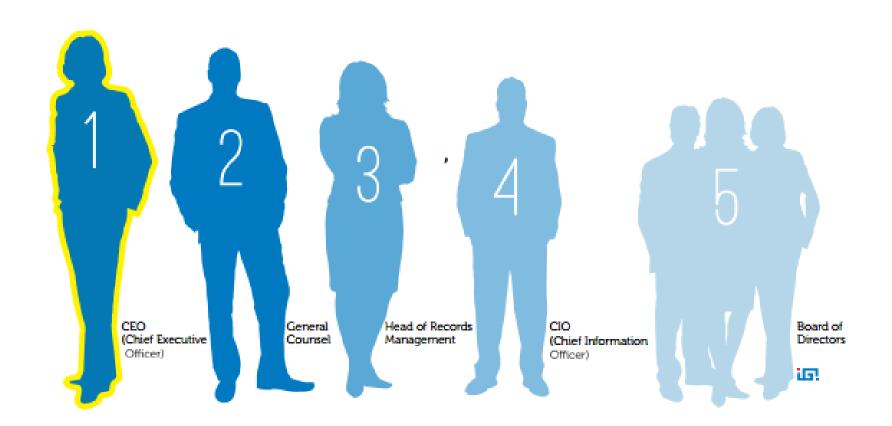


Who Bears The Brunt of Failure? Top 5 Stakeholders

2017 IGI Results

WHO BEARS THE BRUNT OF FAILURE? TOP 5 STAKEHOLDERS.

Who is most affected when long-term digital information is not properly preserved and governed?







Capabilities for Long-Term Preservation & Governance

2017 IGI Results

What IG professionals say is most critical to preserving and governing long-term digital information.

Ensuring	readability and usability of information	89 %	
	Proving authenticity and trustworthiness	79%	
Supporting records retention and disposition requirements			
	Providing secure access and discovery to business users	62*	
	Conformance with standards for digital preservation	59%	
	Automated transfer of records from operational systems to long-term digital preservation systems	51*	





Challenges and Opportunities Associated with Capturing and Preserving Email

Roger Christman

Senior State Governors' Records Archivist at The Library of Virginia





Adam Raised a Kaine: Kaine Email Project @ the Library of Virginia



KAINE EMAIL PROJECT @ LVA

Welcome to the Library of Virginia's Kaine Email Project, where we make accessible the email records from the administration of Governor Timothy M. Kaine, Virginia's 70th governor (2006–2010). Users can search and view email records from the Governor's Office and his Cabinet Secretaries; learn about other public records from the Kaine Administration; go behind the scenes to see how the Library of Virginia made the email records available; and read what others are saying about the collection. The Library of Virginia received approximately 1.3 million email messages from the Kaine Administration. We are processing and releasing these records in batches, so please check back often for new content.



Search the Collection



Related Content



Look Under the Hood



What's the Buzz





Governor Kaine's Electronic Archival Policy

From: Paris, Kate

Sent time: Friday, December 07, 2007 3:07:35 PM

To: _Governor/Cabinet Staff
Subject: Electronic Data Archival Policy

Attachments: Electronic Data Archival Policy Form.doc

The following is a message from the Chief of Staff:

Please sign the attached form indicating that you have read and understand the electronic archiving policy for the Kaine administration. Signed forms should be sent to Dennis Johnson, Director of Support Services, 5th floor PHB.

Governor Kaine's Electronic Archival Policy

- Email archiving
 - a. Emails containing "public transaction of business" will be archived in an archive folder created by VITA
 - b. Sub folders will be created to reflect your area's Records Retention and Disposition Schedule (RRDS)
 - c. For questions about what should be archived and where, please see your records officer:
 - i. ADMIN- Joycelyn Blizzard
 - ii. AGRI- Shauna Chavis
 - iii. C&T- Darryl Holt
 - iv. CP- Wendy Hoffman
 - v. EDU- Kendall Tyree
 - vi. FIN- Mike Tutor
 - vii. HHR- Pat Green
 - viii. NR- Carol Denson
 - ix. PS- Martha Hazelgrove
 - x. TECH- Tristen Pegram
 - xi. TRAN- Melanie Roberts
 - xii. WF- Megan Root
 - xiii. SOC- Alicia Roberts
 - xiv. GOV- Amber Amato
 - d. More guidance on archiving can be found on the LVA website: http://www.lva.lib.va.us/whatwedo/records/manuals/00M-APPA.HTM





VITA created PST Folder Templates







Personally Identifiable Information (PII) is not our biggest challenge.....

KAINE EMAIL PROJECT @ LVA - PROCESSING BY THE NUMBERS (Updated 10/20/2016)

	Total Number of Emails	Non-Records	Restricted	Open Records
Series I. Executive Office	138609	48173	16077	74359
Series II. Policy Office	49318	26010	300	23008
Series III. Press Office	53812	31750	127	21935
Series IV. Commonwealth	202952	194814	3819	4319
Series V. Technology	41852	26151	320	15381
Series VI. Public Safety	23236	16462	29	6745
Series VII. Workforce Development	42948	32458	49	10441
Secretary of Health and Human Resources	88186			In progress
Secretary of Natural Resources	93324			In progress
Secretary of Administration	83237			In progress
Secretary of Agriculture and Forestry	5334			In progress
Scheduling Office	12641			
Virginia Liaison Office	102349			
Constituent Services	83736			
Secretary of Commerce and Trade	106611			
Commonwealth Preparedness	84043			
Secretary of Education	180298			
Secretary of Finance	58767			
Secretary of Transportation	37115			
Other	15683			





Why did our records management training/guidance fail?

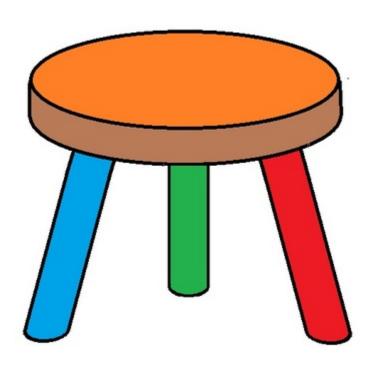
We were not "Present at the Creation."

- Meetings/training began well after the start of the administration
- Governor Kaine's Electronic Archival Policy was not issued until December 2007 – nearly two years into the administration
- VITA PST folder templates rolled out in late 2007





What is the solution?



Three-Legged Stool

- 1. State CIO/IT
- 2. State Archives/Records Management
- 3. State Human Resources





For more information about the project:

- Kaine Email Portal -
- http://www.virginiamemory.com/collections/kaine/
 - Kaine Email Finding Aid -
- http://ead.lib.virginia.edu/vivaxtf/view?docld=lva/vi00993.xml
 - Kaine Email Blog Posts –
- http://www.virginiamemory.com/blogs/out_of_the_box/category/state
 -records-blog-posts/kaine-email-project/

Contact: roger.christman@lva.virginia.gov





Next Steps & Resources

CoSA/Preservica Practical Digital Preservation Program

PERTTS Portal

https://www.statearchivists.org/pertts/educationtraining/cosa-preservica-practical-digital-preservation/

Upcoming Conferences

- CoSA: Boise, ID (July 10-13)
- NAGARA: Boise, ID (July 12-15)
- SAA: Portland, OR July 23 29



Watch the next LIVE demo

May 25th, 10am US ET, 3pm UK - Register for our live online demonstration of the current Preservica version Register at www.preservica.com

RESOURCES on Preservica.com

From whitepapers, case studies, videos, resources and past webinars - www.preservica.com/resources





Questions?







Thank You!

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