Transforming Government

Through Business and Information Technology (IT)/Information Resource Management (IRM)

Sanjeev "Sonny" Bhagowalia Chief Information Officer December 6, 2011





Organizational revival depends on the ability to adapt to environmental change



- "We must become the change we want to see in the world" Mahatma Gandhi
- "The journey of a thousand miles begins with a single step" Lao Tzu
- "Automating a mess yields an automated mess" Reengineering the Corporation, by
 Michael Hammer & James Champy, 1993
- "Information technology can expect to improve business process about 10%. However, redesigning a process and then adding technology can improve the process up to 90%"
 Bill Gates, Business @ the Speed of Thought, 1999
- "The first rule of any technology used in a business is that automation applied to an efficient operation will magnify the efficiency. The second is that automation applied to an inefficient operation will magnify the inefficiency" Bill Gates
- "Not everything that can be counted counts, and not everything that counts can be counted" Albert Einstein (attributed)
- "What gets measured gets done, what gets measured and fed back gets done well, what gets rewarded gets repeated" - John E. Jones
- "The Problem is never how to get new innovative thoughts into your mind, but how to get old ones out" Dee Hock, Founder and Former CEO of Visa
- "Innovation distinguishes between a leader and a follower" Steve Jobs, Apple



CIO Provides IT/IRM Leadership



- Develop, implement, and manage IT/IRM governance
- Establish and enforce policies and standards
- Create architectural requirements
- Provide statewide IT/IRM investment oversight



Source: http://www.ndu.edu

Source: http://www.cio.gov



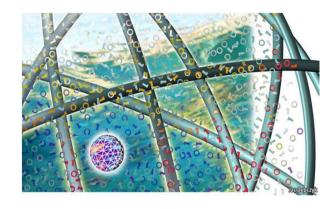
Context: The World Constantly Changes





5 bold tech predictions: Fact or fantasy? FCW (December 8, 2010)

- 1. 20% of businesses will own no IT assets by 2012 (Gartner)
- 2. One trillion devices will be connected to the Internet by 2013 (Cisco) Current=35B
- 3. The government can save \$1 trillion in 10 years by harnessing certain proven technologies (Technology CEO Council)
- 4. 25% of personal computing devices sold will be tablets by 2015 (Forrester Research)
- 5. Data will grow by 800 percent in the next five years with 80% Unstructured Text and Media (Gartner)



Volume of digital information increases tenfold every 5 years

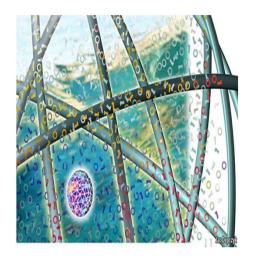


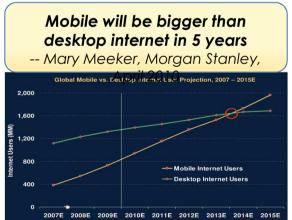
And....the data is replicated many times over!



Context: Maximum sharing and flow of information and knowledge*







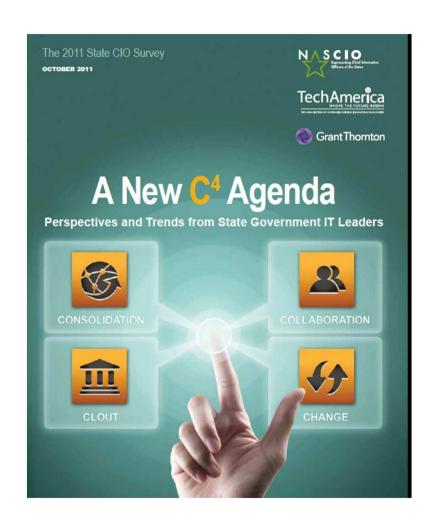
- YouTube is now second largest search engine in the world
- 1.5 million pieces of content shared daily on Facebook
- On-line newspaper readers are up 30%
- 250 million visitors each month to Myspace, YouTube, and Facebook (none were around 6 years ago)
- Mobile devices will be world's primary connection tool to the Internet in 2020

As big an issue outside your organization as within it



NASCIO 2011 Survey*





*http://www.nascio.org/publications/

39 Questions

- Roles & Governance
- Legislative Affairs & Advocacy
- Financial Management, Funding and Budget
- Collaboration
- Consolidation and Shared Services
- Cloud Computing
- Sourcing Strategies and IT Workforce
- Health Care
- Business Intelligence and Business Analysis
- Mobility

Conclusions

State CIOs are changing

- How they provide services
- The Source and diversity of their revenue streams
- Their relationship with the legislature
- How mobile devices and apps connect citizens to their government



NASCIO Conference 2011



NASCIO Top Ten Strategy Priorities (2012)

- 1. Consolidation / Optimization
- 2. Budget and Cost Control
- 3. Governance
- 4. Health Care
- 5. Cloud Computing
- 6. Security
- 7. Broadband and Connectivity
- 8. Shared Services
- 9. Portal
- 10. Mobile Service/Mobility



NASCIO Top Ten Technology Priorities (2012)

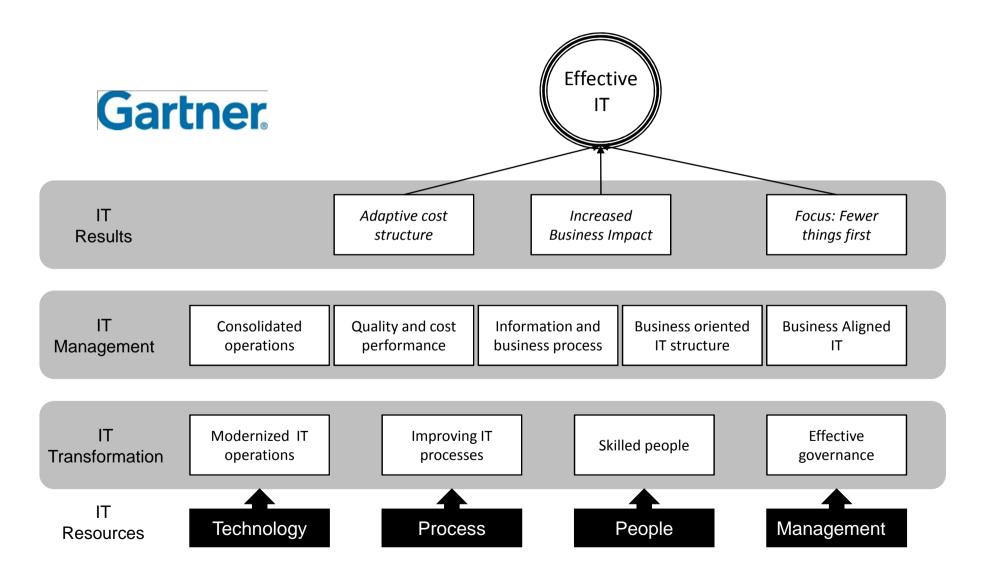
- 1. Virtualization
- Legacy application modernization/ renovation
- 3. Cloud computing
- 4. Mobile workforce technologies
- Networking
- 6. Enterprise Resource Management (ERP)
- 7. Identity and access management
- Business Intelligence (BI) and Business Analytics (BA) applications
- 9. Document/Content/Records/E-mail management
- 10. Public Safety Radio Network

Source: http://www.nascio.org



CIOs build effective IT/IRM through transforming resources and management practices

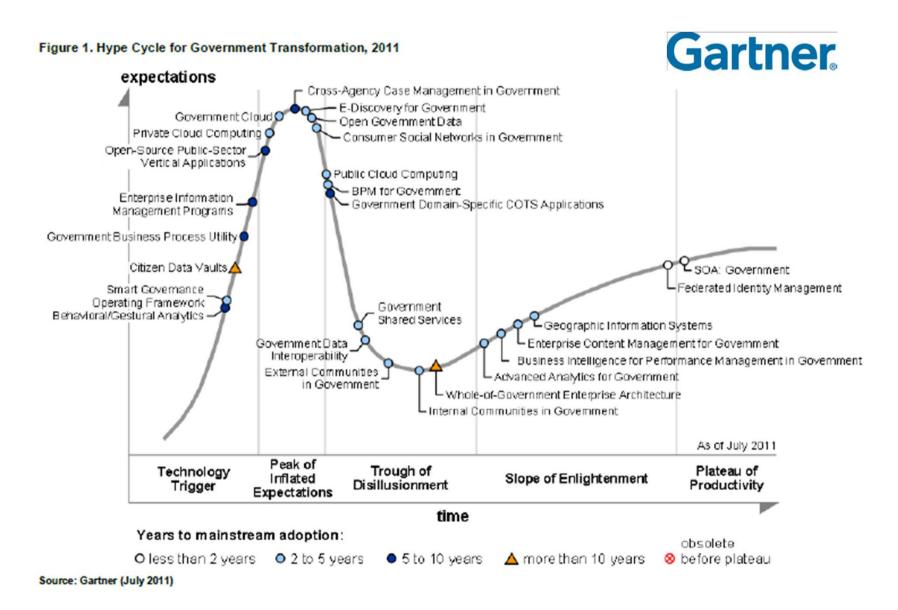






Hype Cycle for Government Transformation (2011)

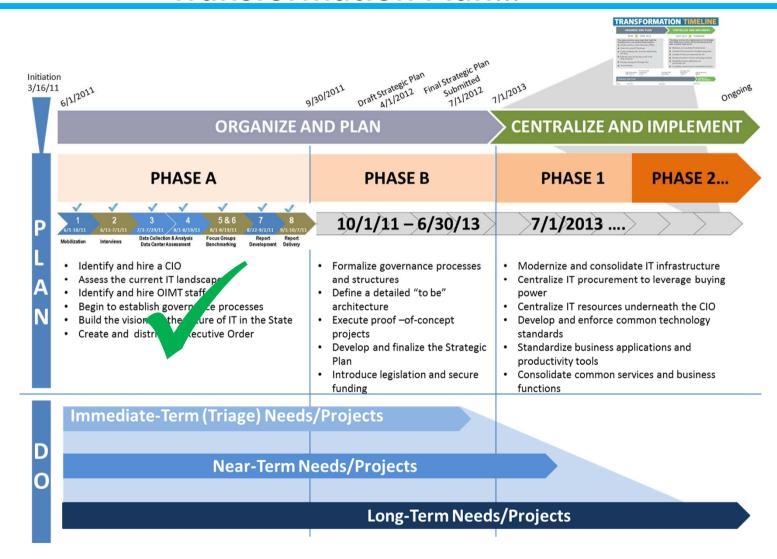






An Integrated, Multi-Year Transformation Plan...





A Seven-Phase, Eleven-Year Plan with delivery along the way



...With Wins Along the Way to a "New Day"



A NEW DAY IN HAWAII

Overall Master Transformation Plan for the State of Hawai'i



Phased Approach to Achieving IT Excellence

2011

Incremental improvements and delivery

2013

2014

2015 . . .



Baseline Assessment – Phase A



- Completed over 4 months
- Interviewed over 200 individuals from departments, offices and attached agencies
- Cataloged more than 1,500 pages of notes and background material



Phase A - Major Deliverables



1) Baseline Report



Items 1-3 released in an open, transparent manner to the public

2) Benchmarking Report





3) Data Center Assessment

4) Enterprise Alignment Database (EAD) Tool



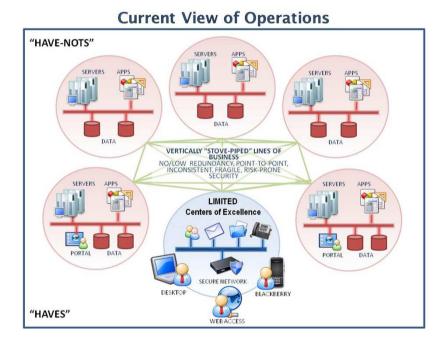
High quality work products delivered on time and within budget – Phase A complete!



Phase A - Findings



- 18 Departments & University of Hawaii
- \$157.5 million IT/IRM budget
- 746 IT/IRM staff
- Over 500 applications
- 200 lines of business
- High duplication of effort
- Wide funding disparities
- Some focused areas of excellence



Many disconnected silos of effort



Widespread Symptoms of IT/IRM Management Challenges



- Inefficient manual interfaces
- Minimal enterprise integration and sharing
- Narrowly-focused federally funded solutions
- Limited use of IT/IRM to enable mission service delivery
- Aging legacy systems conditions (20+ years old)
- Proliferation of any and every type of IT/IRM product and service
- Little business process coordination or information sharing across departments (and programs)

A clear need for transformation!



Symptoms Driven by Three Root Causes



- 1) No coordinating authority for managing information resources and technology across the State
- 2) Lack of cross-cutting business process reengineering (BPR)
- 3) Deep cuts in resources and budget reductions in the State over the past decade

Major issues exist – but all are solvable!



20 Key Recommendations

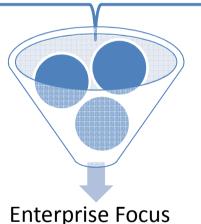


Business Reference Model
Manual Interfaces
Risk Assessments
Performance Measures
Funding for IT
Agency Model

Data Sharing and Collaboration
Bargaining Unit Leadership
Service Management Model
Application Integration
Platforms and Technologies

Organizational Change
ICSD
Applications Portfolio
Data Architecture
IT Costs
IT Skills

20



All recommendations are important but must be sequenced according to resources and readiness

Governance Strategies
Business Process Re-Engineering
Technical Foundation

We must start implementing 4 basic foundational recommendations now!



Four Key Recommendations



1 2 3 4



Enterprise Focus for Projects



Establish Enterprise Governance



Re-engineer
Business
Processes



Strengthen
Technical
Infrastructure



Focus on Cross-Cutting/Enterprise Solutions



Re-engineer processes that are:

- Performed by multiple Departments
- Paper-driven
- Shareable across a foundational, enterprise IT infrastructure
- Extraordinarily labor-intensive and therefore drive users to create one-off solutions

Don't just automate inefficient processes...re-engineer them!





Prioritized BPR Process Areas



Candidates for Cross-Cutting Enterprise Solutions	Immediate- Term	Near- Term	Long- Term
Financial Management Initiatives	✓		
Procurement and IT Acquisitions	✓		
Program/Project Management Process Definition	✓		
Time and Attendance Reporting	✓		
Check Printing and Processing	✓		
Legislative Bill Tracking	✓		
Constituent Response Tracking	✓		
Data Entry	✓		
Enterprise Email Solution	✓		
Inventory/Asset Management		✓	
Document Tracking and Records Management		✓	
Neighbor Island Solution		✓	
PPACA Implementation		✓	
Longitudinal Data Enterprise Solution		✓	
Federal Grant Application and Lifecycle Management			✓
GIS Enterprise Solution			✓

Lay the groundwork for efficient delivery of services statewide



The Way Forward







A Vision for a Better Future



Mission

To assist agencies in the effective, efficient and convenient delivery of programs and services to the public through business transformation and information technology modernization.

Vision

A State where:

- the public engages with an open and transparent government;
- State employees, citizens and businesses have convenient and secure access to reliable information;
- government processes are streamlined, integrated and implemented to meet the public's service expectations;
- information technology and information capabilities align and support business needs, strategies, and outcomes;
- innovation and continuous improvement are fostered.



Benefits of the Transformation



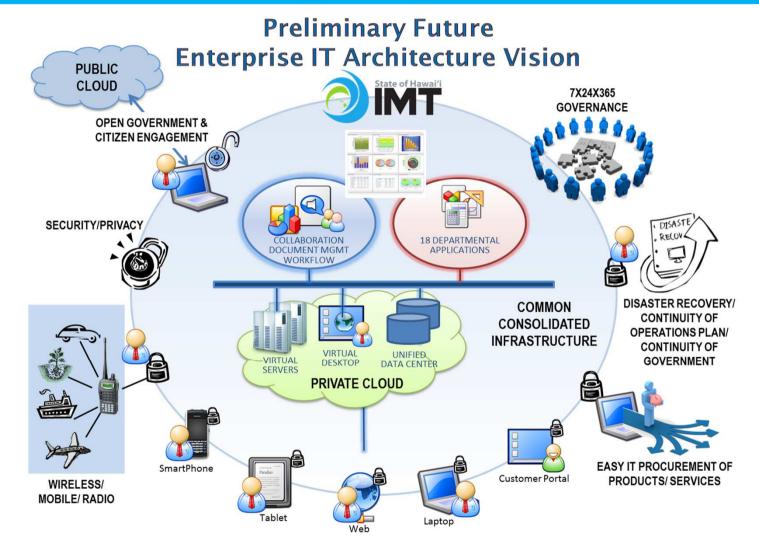
The transformation will benefit:

- State citizens through improved delivery of services and programs (e.g. going "online" instead of "waiting in line"); a more transparent and responsive government; and increased access to information and data.
- State employees with streamlined workflow processes allowing more focus on serving customers and access to a wider range of new technologies to support departmental mission, programs and services.
- State government through efficiently aligned services; reduced costs and unnecessary redundancies; increased reliability and security; and improved outcomes and accountability.



Vision



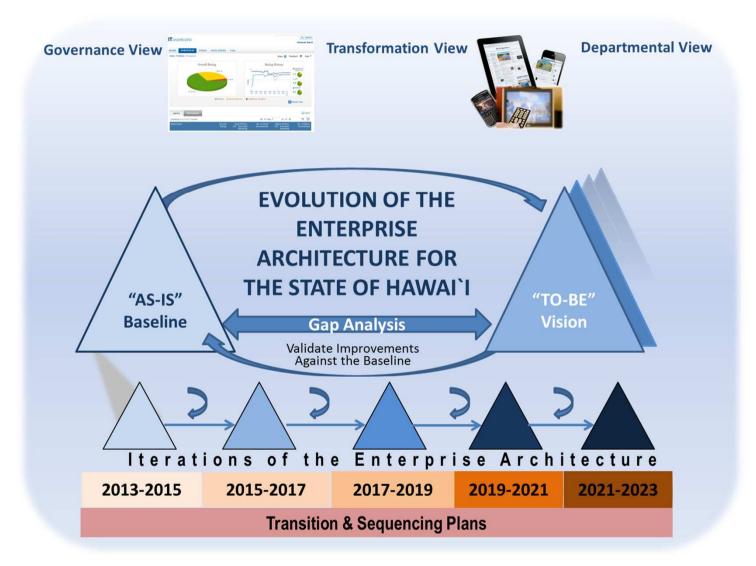


Access to the right information – anywhere, any time, any mission, securely and reliably



IT Strategic Plan Drives Long-Term Vision





Deliver outstanding customer services and business value

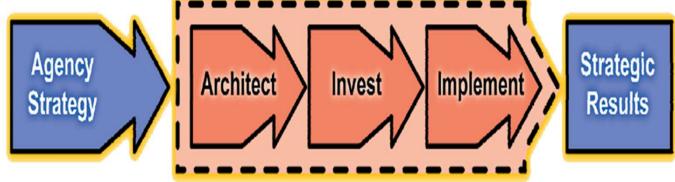


The Transformation Plan





Performance Improvement Lifecycle

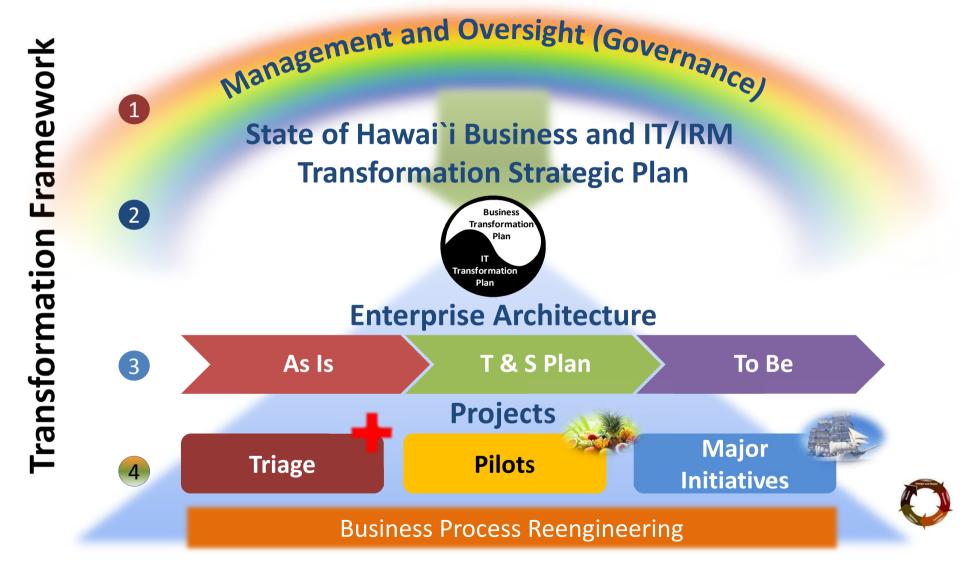










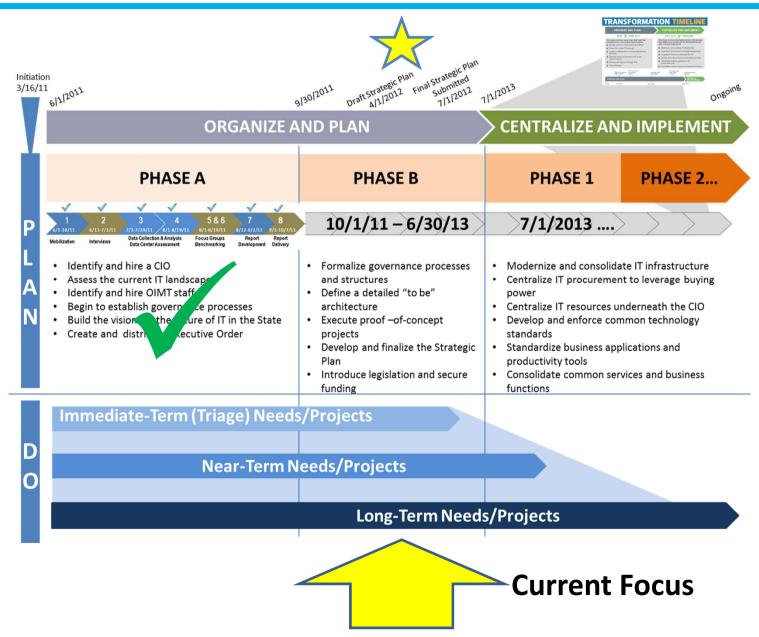


You will see incremental improvements and delivery



An Integrated, Multi-Year Transformation Plan...

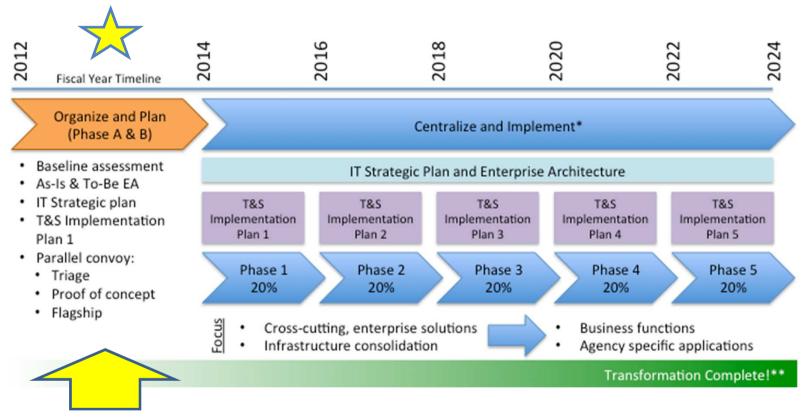






The Transformation Plan





^{*}Successful implementation of Centralize and Implement Phases dependent on funding

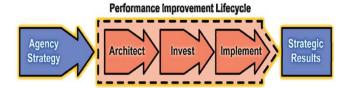
A Seven-Phase, Eleven-Year Plan with delivery along the way

^{**}State will pursue continuous improvement and innovation during and after the transformation



The Crossroads...





Stove-Piped,
Sub-optimized,
IRM and IT
Environment
(Today)



Geo-enabled,
Integrated,
Mobile,
Transparent, WebAccessible, Open,
Standards-based,
Agile,
Reliable,
Reliable,
Secure
Enterprise
Information and IT
Environment
(Goal)

We are at a Crossroad in History – Let's Choose the Pathway to Success!





Mahalo!

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