

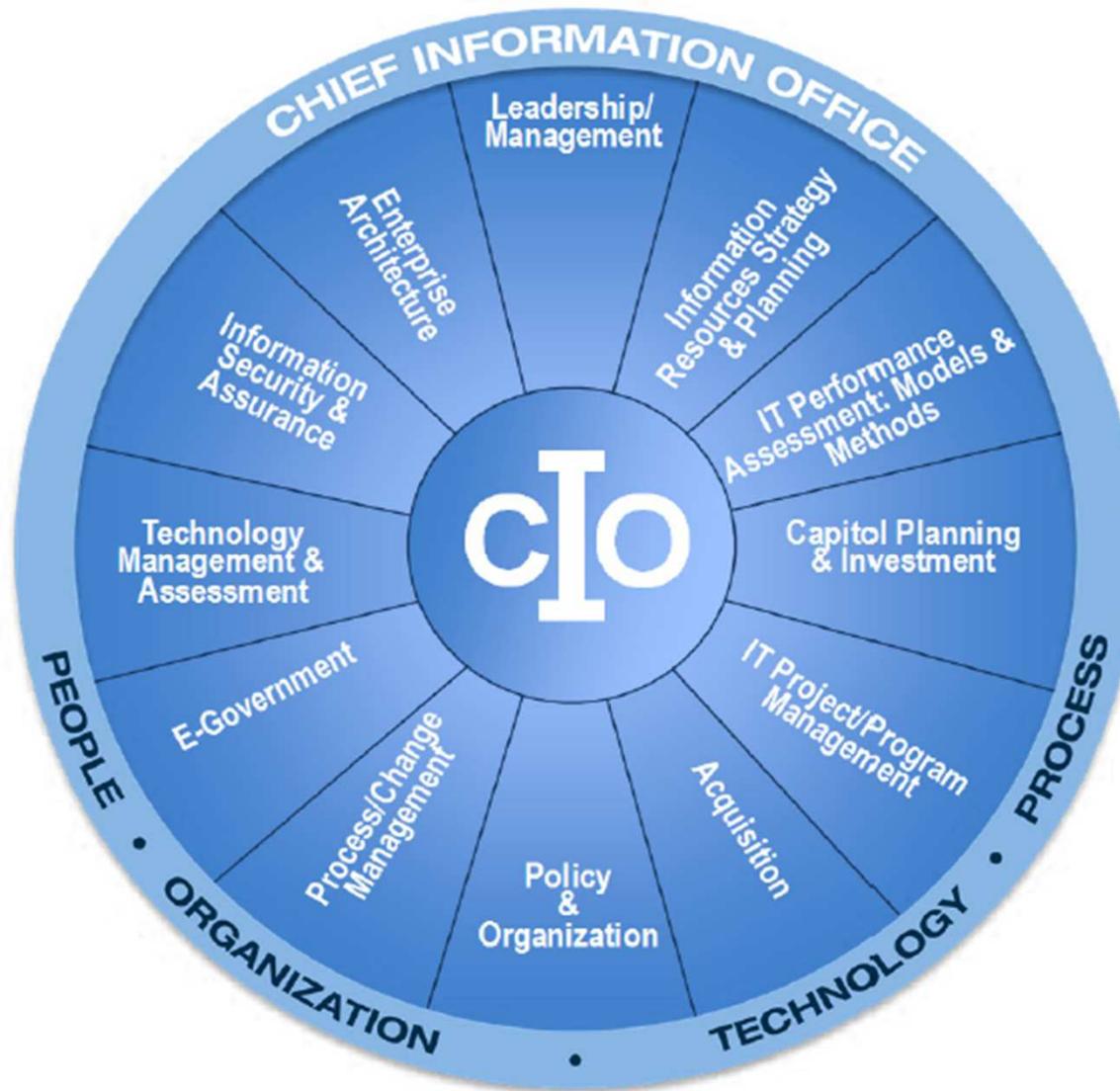


State of Hawai'i
IMT

**PRESENTATION TO
SENATE COMMITTEES ON
ECONOMIC DEVELOPMENT & TECHNOLOGY
AND WAYS & MEANS**

December 6, 2011

**Sanjeev "Sonny" Bhagowalia
Chief Information Officer**



Source: <http://www.ndu.edu>

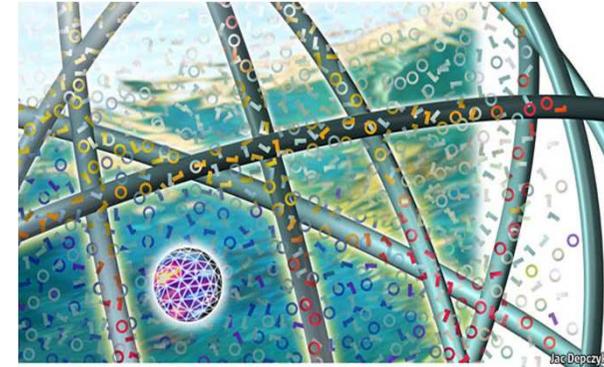
Source: <http://www.cio.gov>

Federal Computer WEEK

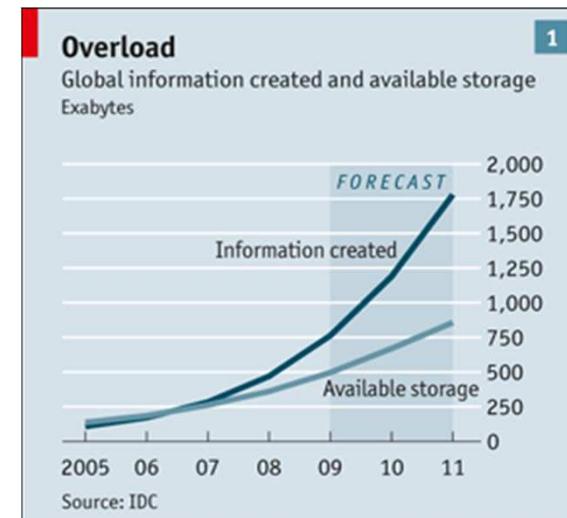
Strategy and business management for government leaders

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)

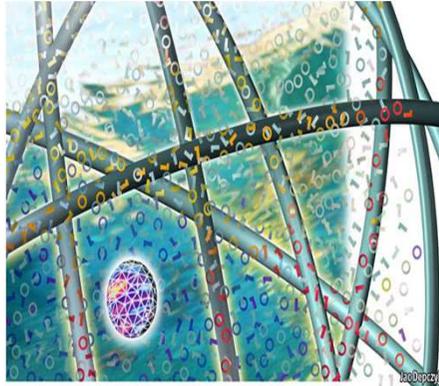


Volume of digital information increases tenfold every five years

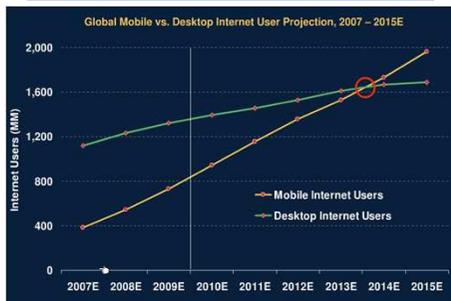


And....the data is replicated many times over!

Context: Maximum sharing and flow of information and knowledge



Mobile will be bigger than desktop internet in 5 years
-- Mary Meeker, Morgan Stanley,
April 2010



- 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*



39 Questions

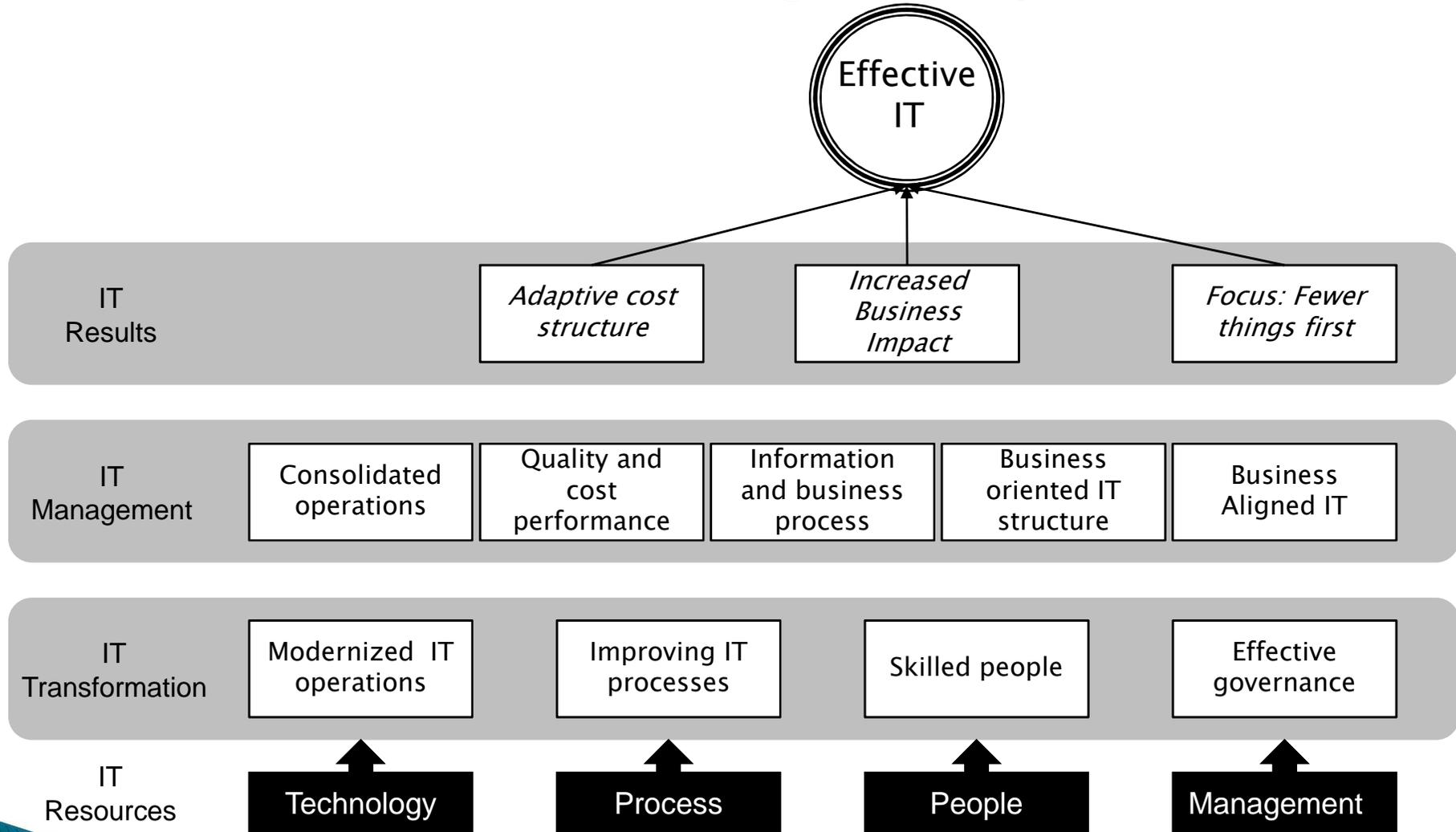
- ▶ Roles & Governance
- ▶ Legislative Affairs & Advocacy
- ▶ Financial Management, Funding and Budget
- ▶ Collaboration
- ▶ Consolidation and Shared Services
- ▶ Cloud Computing
- ▶ Sourcing Strategies and IT Workforce
- ▶ Health Care
- ▶ Business Intelligence and Business Analysis
- ▶ Mobility

Conclusions

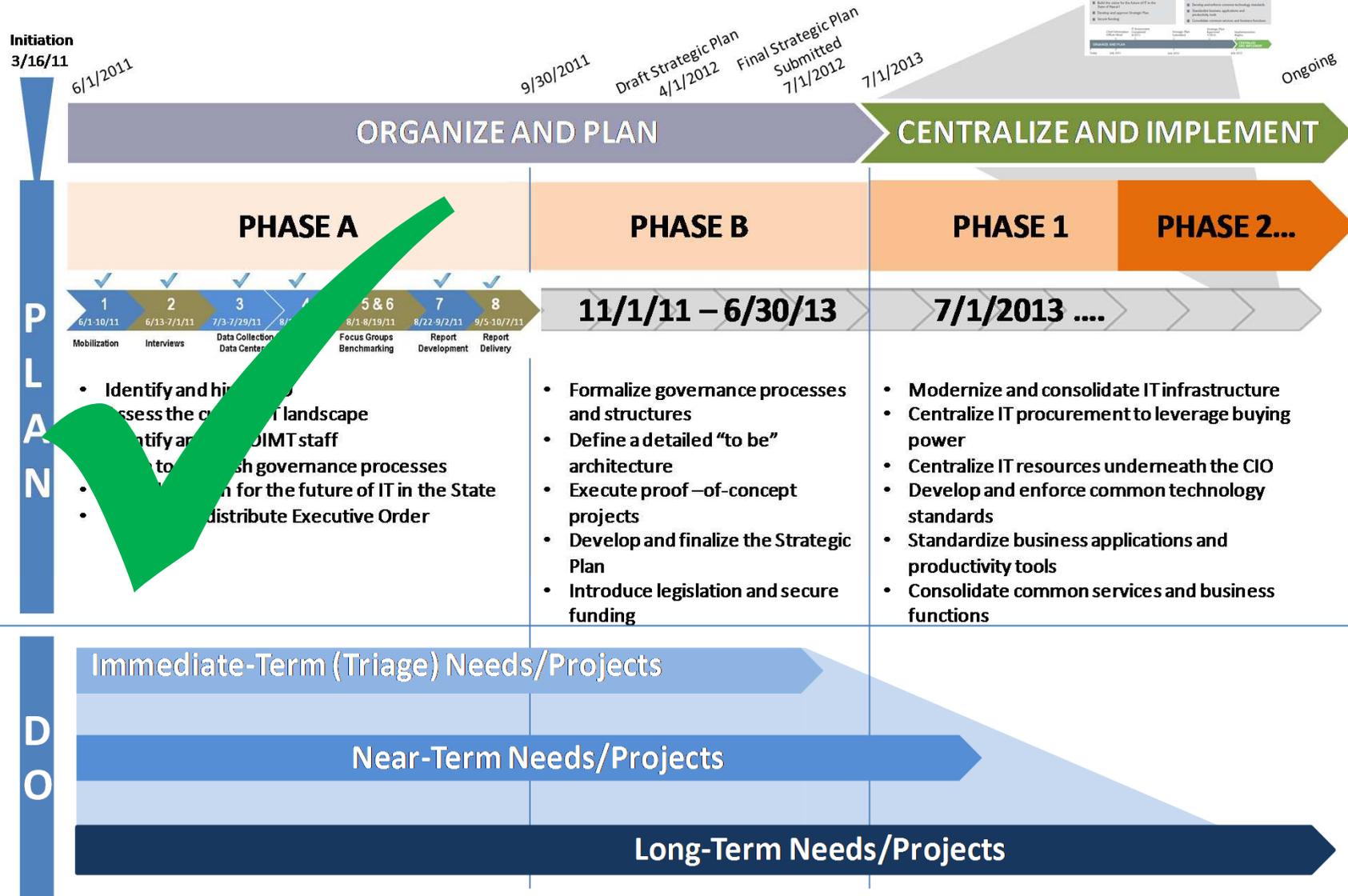
- ▶ State CIOs are changing
 - How they provide services
 - The Source and diversity of their revenue streams
 - Their relationship with the legislature
 - How mobile devices and apps connect citizens to their government

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

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



Notional Transformation Schedule



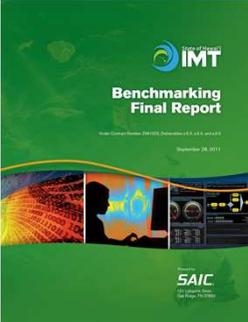
Phase A – Major Deliverables

1) Baseline Report

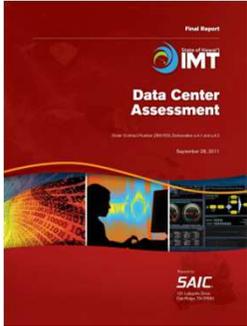


Items 1-3 released in an open, transparent manner to the public

2) Benchmarking Report



3) Data Center Assessment



4) Enterprise Alignment Database (EAD) Tool

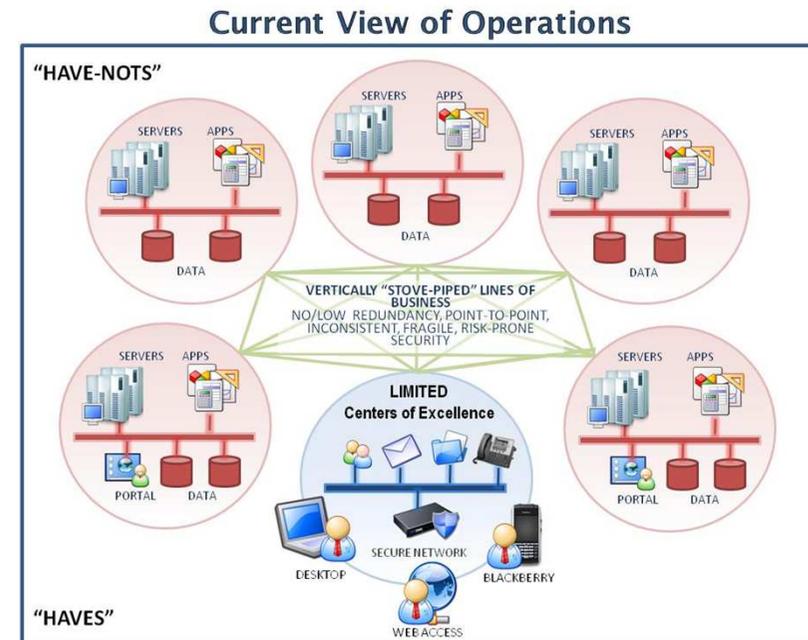


High quality work products delivered on time and within budget – Phase A complete – Thanks to State Cooperation/Participation!



Phase A Key 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

Challenges=Opportunities for Change

- ▶ **Resource Shortages***
 - Funding (~25% cuts in last 8 years)
 - Staffing (~50% reduction over 8–10 years)
- ▶ **Aging Technology**
 - 20–30 Years!
- ▶ **Aging Processes**
 - Paper-based, manual and in-efficient
 - Automation requires Business Process Re-engineering (BPR)
 - Single-Points-of-Failure Exist with no Disaster Recovery for Most Mission-Critical Systems

*Source: Assessment Interviews/report

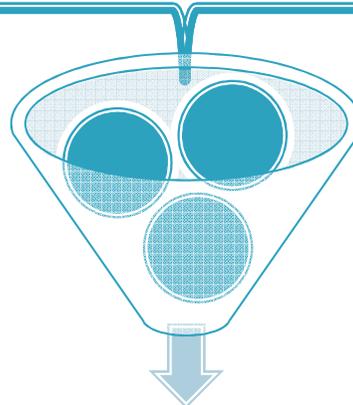
The State IT/IRM team has kept this “system” alive somehow...but it can’t last much longer...



20 Key Recommendations

Business Reference Model	Data Sharing and Collaboration	Organizational Change
Manual Interfaces	Bargaining Unit Leadership	ICSD
Risk Assessments	Service Management Model	Applications Portfolio
Performance Measures	Application Integration	Data Architecture
Funding for IT	Platforms and Technologies	IT Costs
Agency Model		IT Skills

20



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

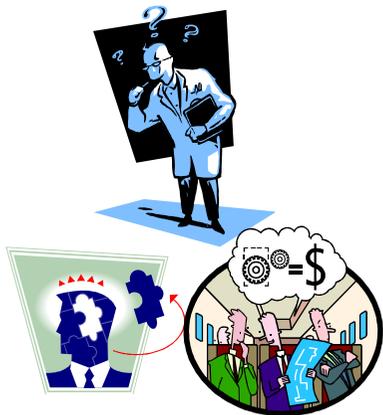
4

Enterprise Focus
Governance Strategies
Business Process Re-Engineering
Technical Foundation

We must start implementing 4 basic foundational recommendations now!

Four Key Recommendations

1



*Enterprise
Focus for
Projects*

2



*Establish
Enterprise
Governance*

3



*Re-engineer
Business
Processes*

4



*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!

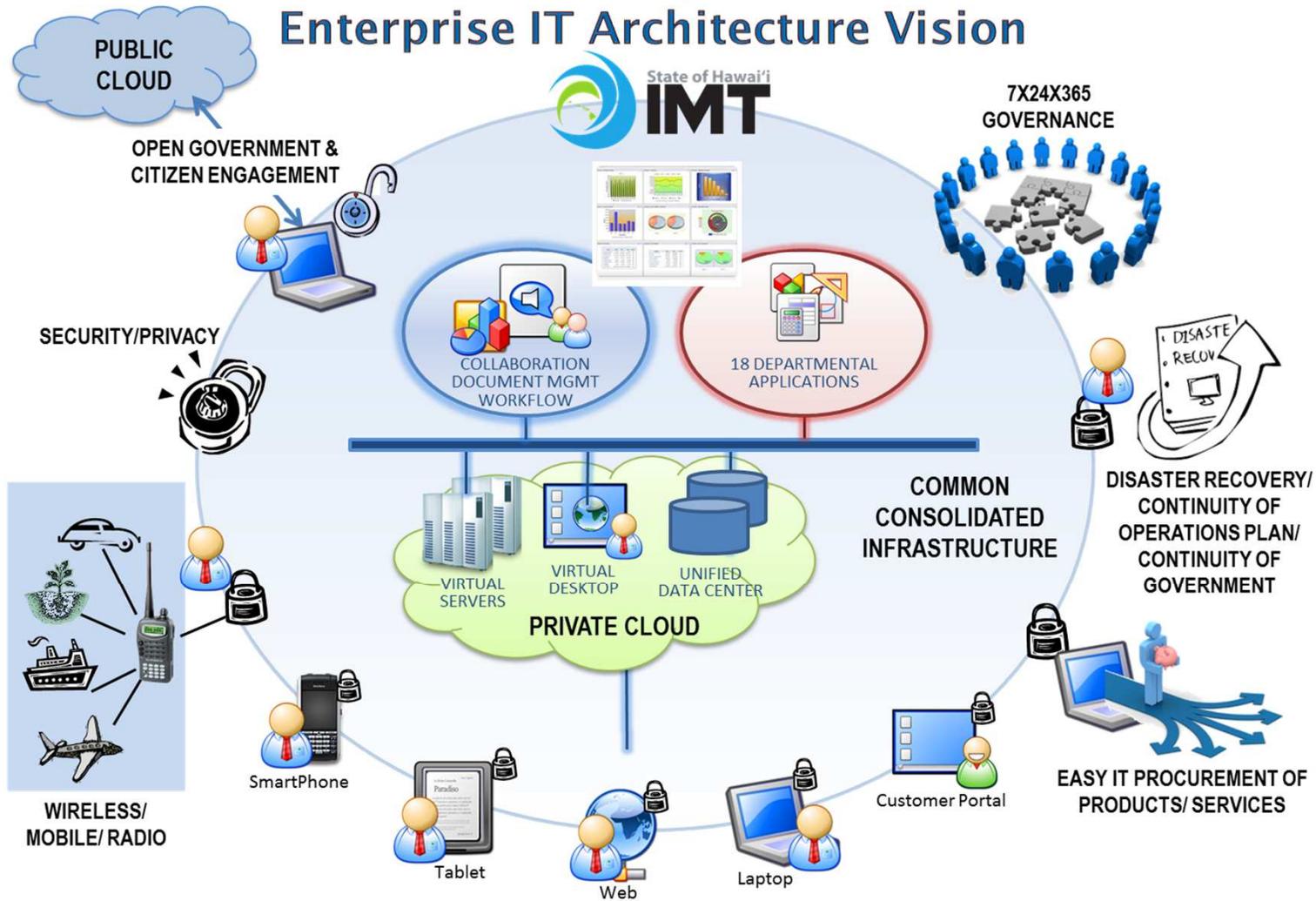
Prioritized BPR Process Areas

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

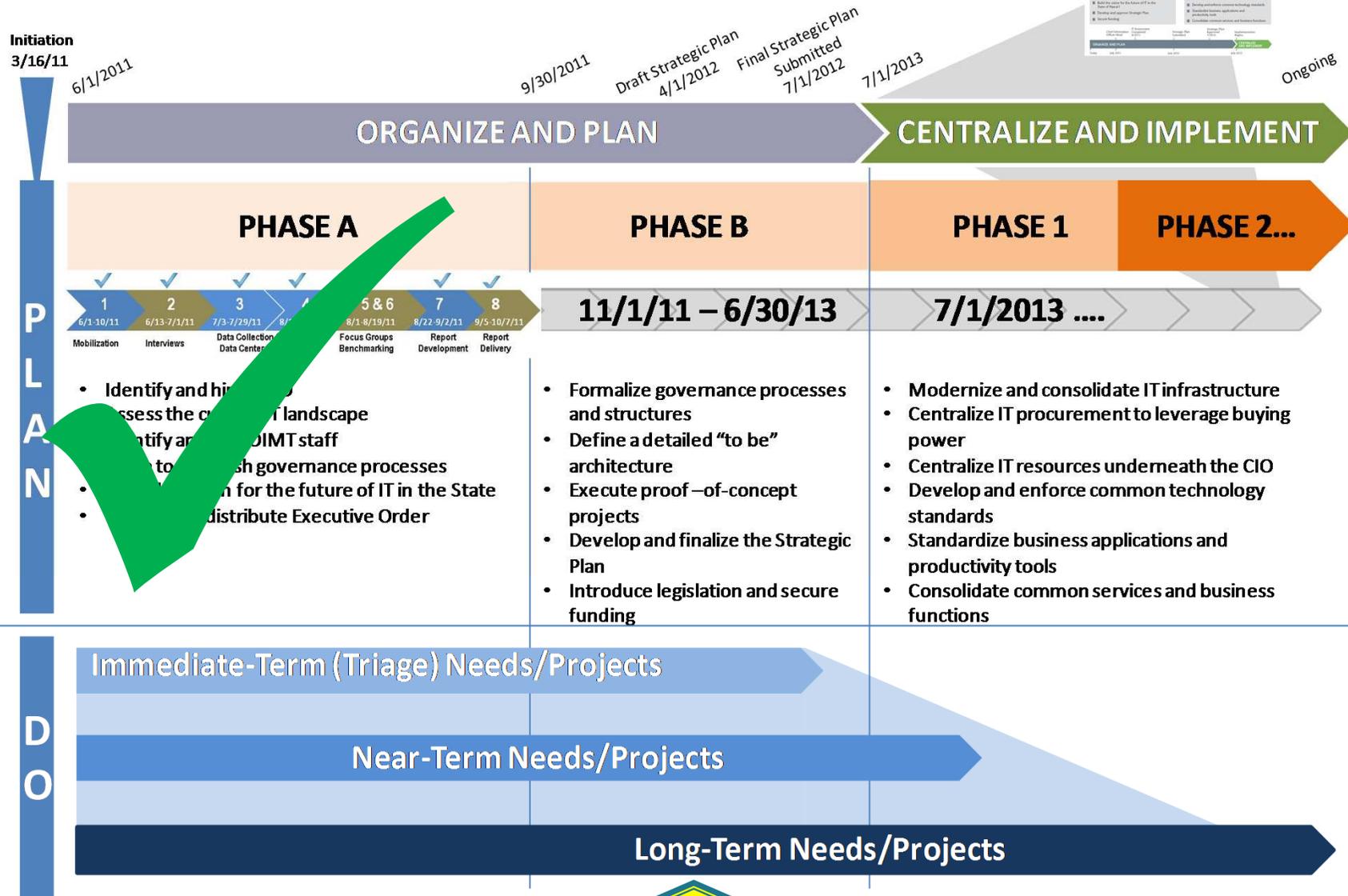


Preliminary Future Enterprise IT Architecture Vision



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

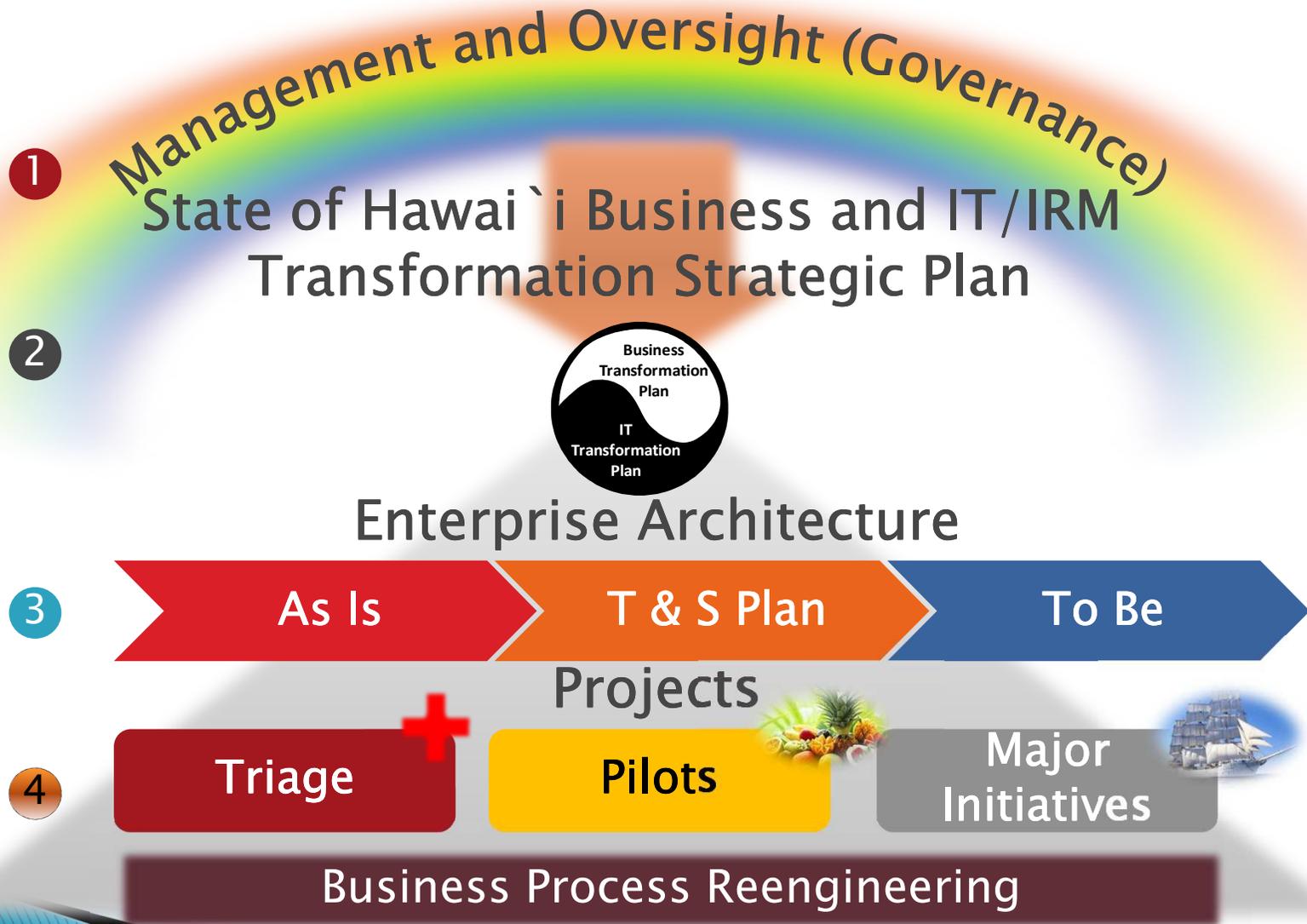
Notional Transformation Schedule



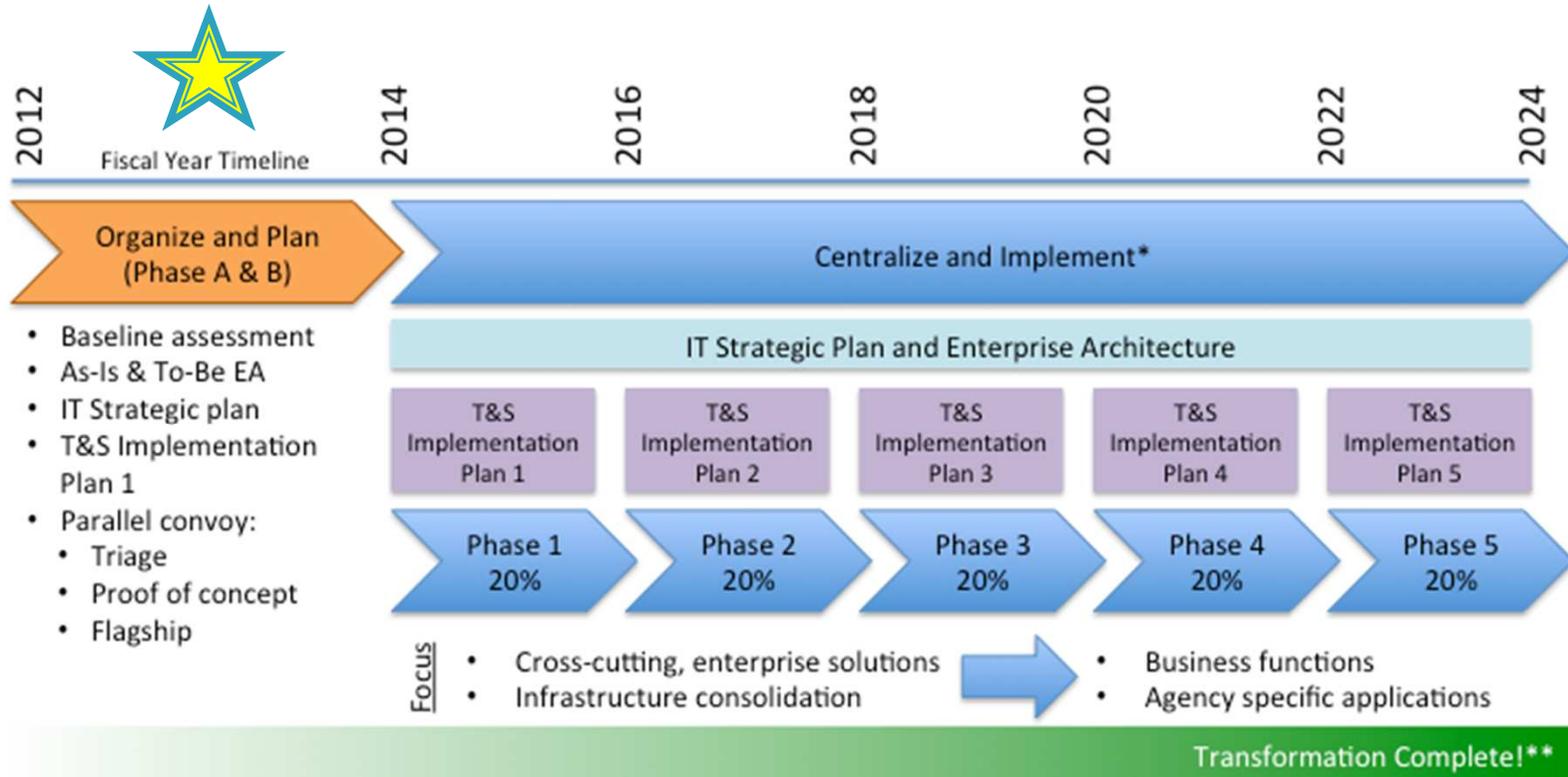
Current Focus



Notional Transformation Framework



Notional Transformation Schedule

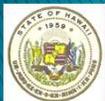


*Successful implementation of Centralize and Implement Phase dependent on funding from legislature in supplemental budget and biennium budget cycles

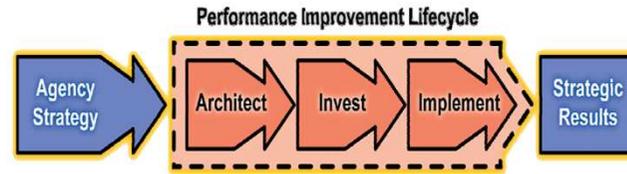
**State will pursue continuous improvement and innovation during and after the transformation



Program Plan Presentation to Legislature (July, 2012) _
Defines 10-Year Plan for Transformation with Details
on Phase 1 Scope



The Crossroads...



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



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

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



State of Hawai'i
IMT



Mahalo!

<http://www.hawaii.gov/oimt>

oimt@hawaii.gov