

MeriTalk

The Government IT Network

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Data Center Consolidation COOK BOOK

www.meritalk.com/datacenterexchange

DATA CENTER
EXCHANGE

MeriTalk

November 28, 2011

www.meritalk.com

MeriTalk Data Center Exchange Group

- Public-private dialogue platform for operationalizing Federal data center consolidation, co-location, and community
- Discuss challenges and opportunities
- Events, newsletters, and data center resources

Register Your Profile to Get Involved Today –
<http://meritalk.com/datacenterexchange-join.php>

**DATA CENTER
EXCHANGE**



Goals – What's for Dinner?

Save Money

Energy, Storage, Servers, Software,
Real estate, FTEs

Improve Service Levels/Attributes

Uptime, Security, Application
performance, Provision speed,
Flexibility



Current State

- Budget – CAP + OPEX
- Service levels + attributes

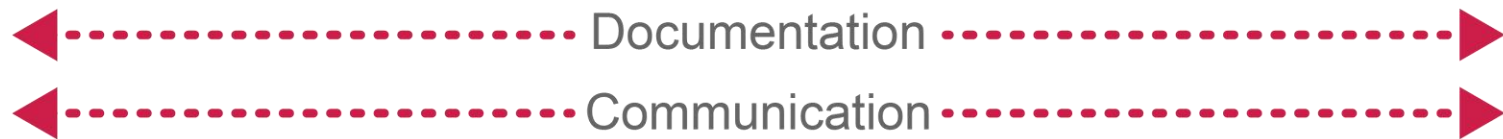
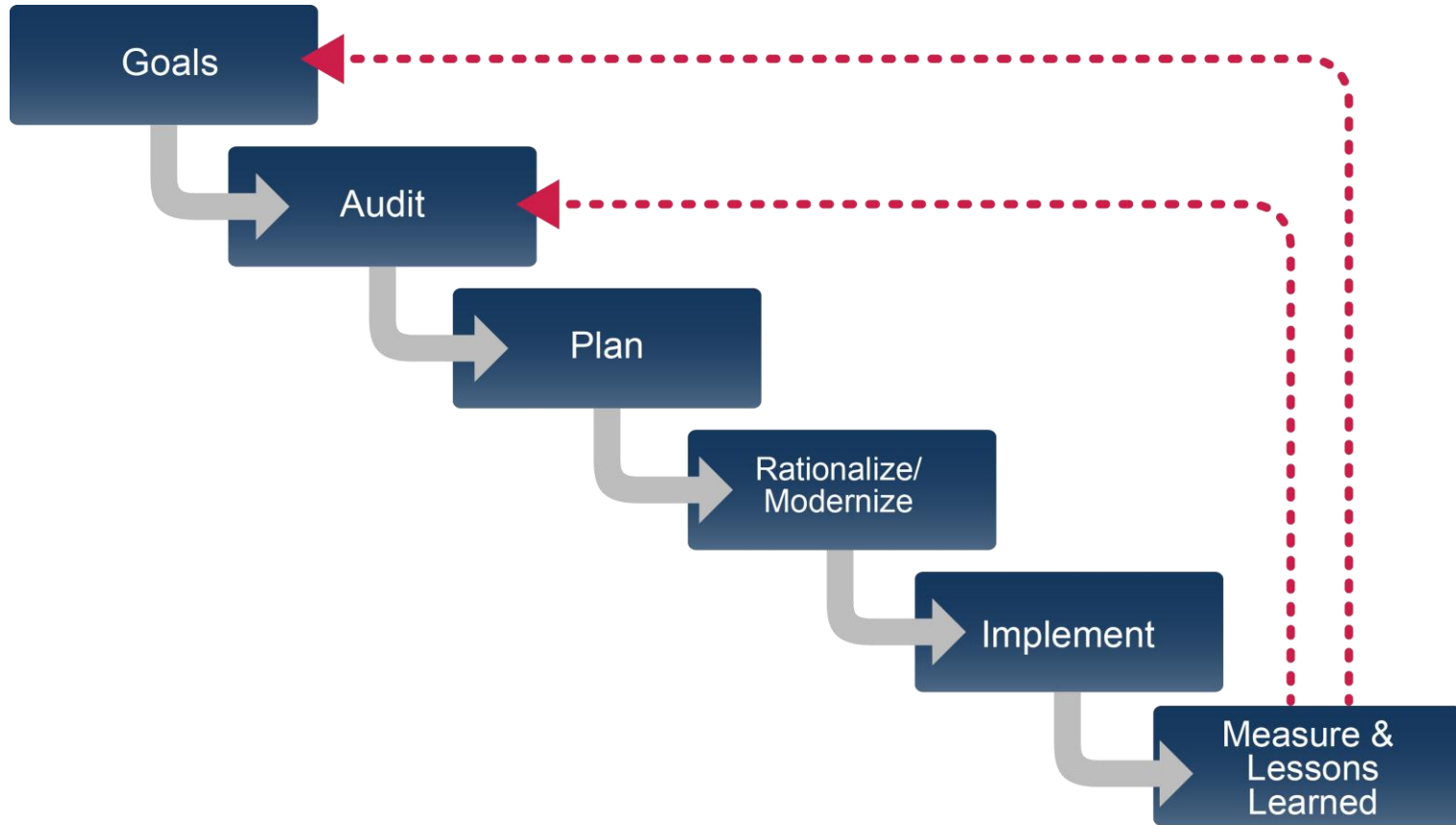
Journey

- Prioritization
- Modernization
- Migration
- Budget
- Interim Customer Support

Future State

- $\frac{(\text{Budget} - \text{CAP} + \text{OPEX})}{n}$
- (Service levels + attributes) x n





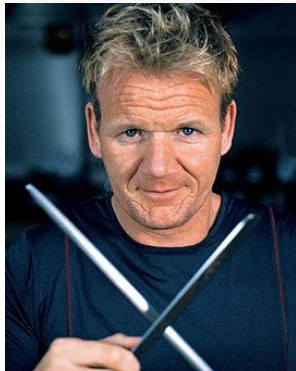
- Break into manageable phases
- Focus on low risk/high return first
- Ensure non-stop services
- Build best practices library and teams
- Merchandise success for next phase



Cooking Schools?

Gordon Ramsay: > 100

- DoD
- HHS
- Interior
- State



50 < 100

- Energy
- Justice
- NASA
- VA

Rachael Ray: < 50

- Agriculture
- Treasury
- Commerce
- GSA
- Homeland Security
- Transportation
- HUD
- Labor
- NRC
- NSF
- SBA
- USAID

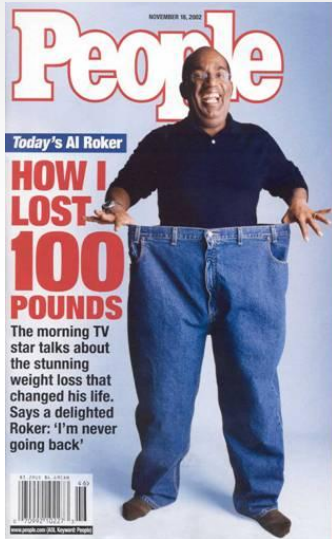


*Category based on current number of data centers



Gastric Bypass: >75

- DoD
- Interior
- State
- VA



Atkins: 20 > 75

- Agriculture
- HHS
- Homeland Security
- NASA

Weight Watchers:< 20

- Commerce
- Energy
- GSA
- HUD
- Justice
- Labor
- NRC
- NSF
- SBA
- Transportation
- Treasury
- USAID



*Category based on number of data centers consolidated by 2015



Cooking Schools?

- # servers?
- # storage?
- # bandwidth throughout?
- # users?
- # concurrent users?
- # applications?



- Save money
 - Energy
 - Storage
 - Servers
 - Software
 - Real estate
 - FTEs
- Improve Service Levels/ Attributes
 - Uptime
 - Security
 - Application performance
 - Provision speed
 - Flexibility



Establish a baseline:

- Inventory assets – servers, storage, apps, OS, real estate, FTEs, etc.
- Budget and customers
- Define SLA – uptime, performance, security
- Third-party services
- Compute density, power requirements – PUE
- Build in margin of error – and refine



Peers

- NASA – Kennedy
- VA – San Antonio
- Army – Melvin Thomas, Dan Andrews

Tools

- Discovery
 - NASA – HP
 - VA – CA
 - ICE and DoL –Knightpoint
 - Army DCCP – Manugistics OpNet
 - Army NetCom – Microsoft SCCM
 - Air Force – Quest Reporter
- Power
 - NASA – Power Assure
 - Sentilla
 - Viridity

Whitepapers



Analysts

- Gartner
- Forrester
- IDC
- Data Center Pulse
- Tier 1
- Uptime Institute
- Mason Harriman



- Engage business owners and set up Customer Advisory Committee – include CFO
- Project future needs
- Project goals: Financial, IT, people, business services – and define SLA
- Plan to meet customer requirements during migration
- Map cost benefit/operational models*

* 6° F increase in facility temperature – 66° F to 72° F – reduces power bills by one third



Peers

- VA to share CONOPS
- Army – Faith Perry

Tools

- VA Share Point site for DCC updates
- Army – Intuit Quickbase

Whitepapers



Analysts



- Applications – To Be or Not to Be? Open Source?
- Consolidate platforms and negotiate software licenses
- Deduplication and automation
- Map timeline and cost association to prioritize



Rationalize/Modernize

Peers

- Army – George Callaghan

Tools

- Army – Intuit Quickbase

Whitepapers



Analysts



- Spiral approach
- Engage Customer Advisory Committee
- Use approved Project Management Methodology – EVM and CPIC
- Leverage to manage customers, contractors, and your team



Peers

- Army – Dan Andrews, Krishnan Namboodiri

Tools

- Army – Configuration Management Database

Whitepapers



Analysts



- Evaluate budget
- Track against SLA
- Close loop with Customer Advisory Committee at every opportunity
- Develop takeaways and lessons learned – carefully document each phase



MeriTalk Measure & Lessons Learned

The Government IT Network

Peers



Tools

- Army – AKO and MilSuite

Whitepapers



Analysts



- Add knowledge to evolving Wiki site
- Upload supporting documents
- Contribute ideas and best practices

For more information, visit <http://meritalk.com/wiki/DCX>

See our sponsor's recipes:

www.meritalk.com/pdfs/dcx/White_Paper_FDCCI_Playbook.pdf



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