

WaTech Exec Committee 7-25

Strategy Review

Agenda

Top Level Strategy Review

- Network Update
- Office 365 Update

Financial Update
Customer Survey Results
Legislative Agenda Topics



Relationship Map

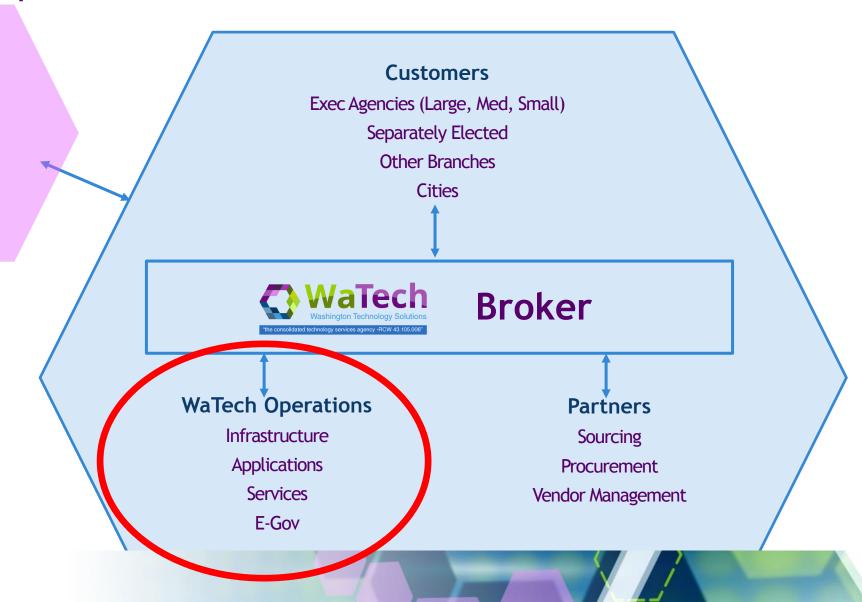
Authorizing Environment

House & Senate

Leg Staff

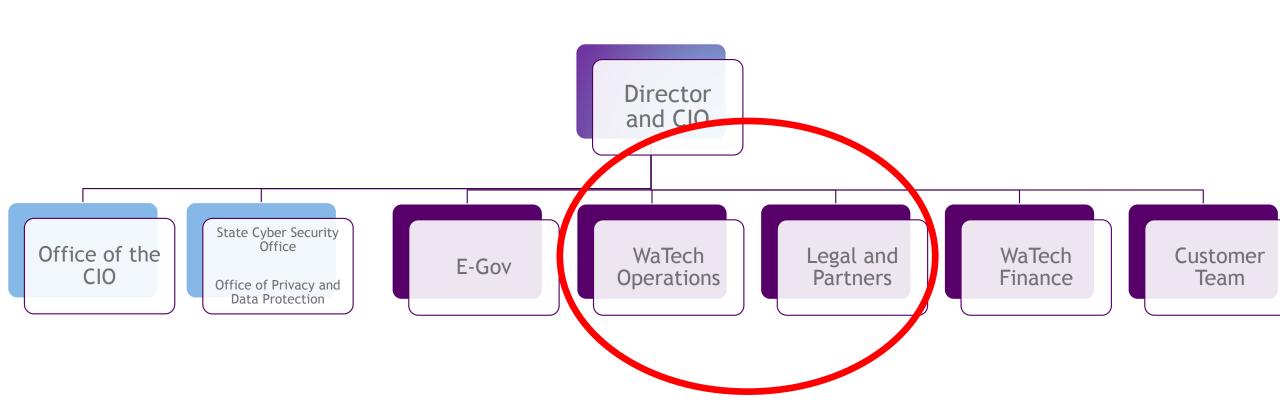
Governor's Office

OFM



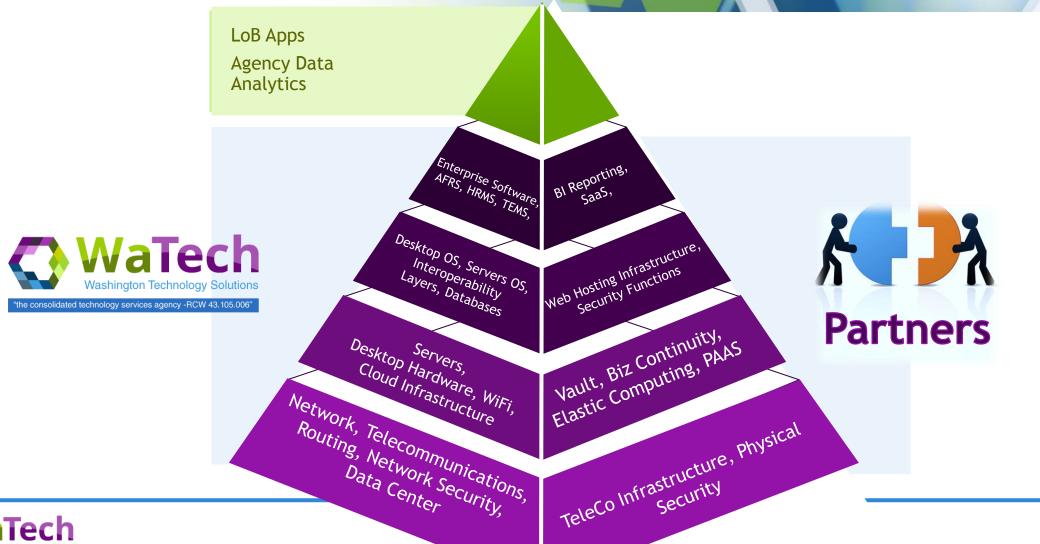


WaTech "Org" Chart



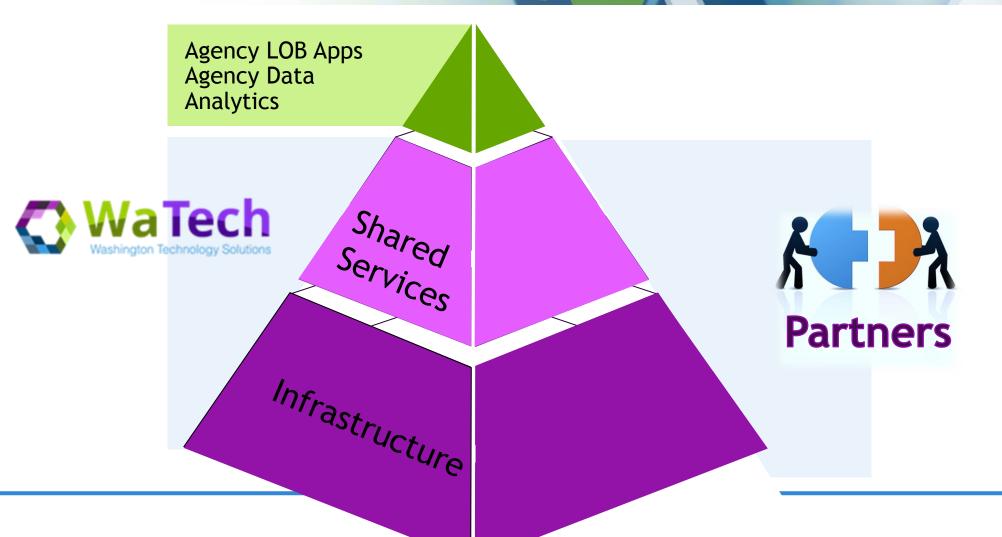


Layers of IT





Agency WaTech Demark

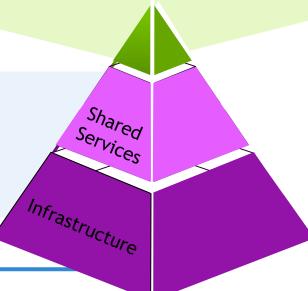




Enterprise View

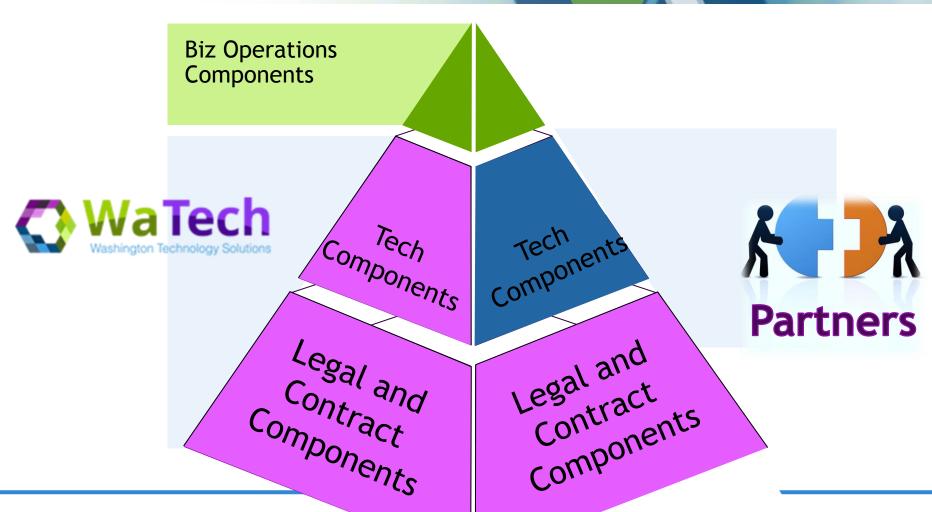








Broker Model





Broker Model - Legal



- Contracting
- Contract Management
- License management and optimization
- Partner relationship management

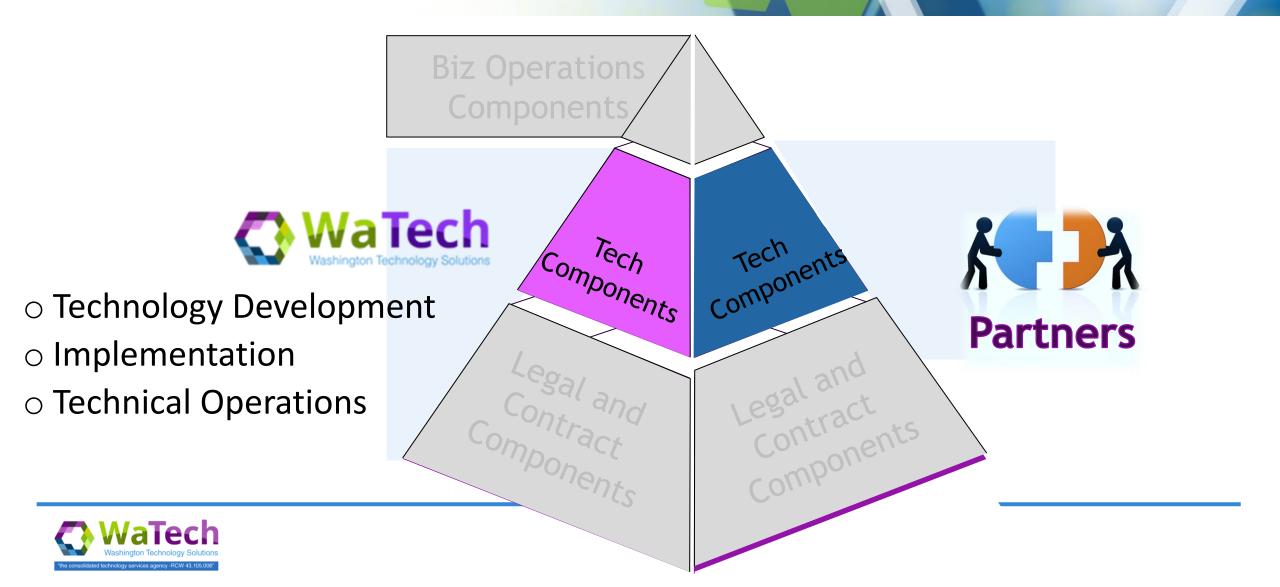








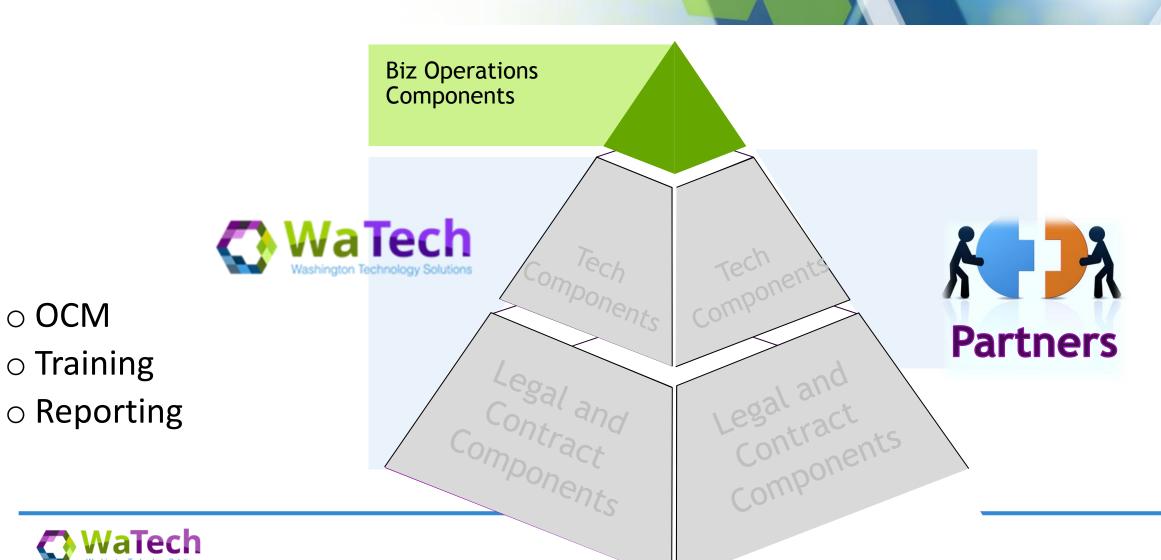
Broker Model - Technology



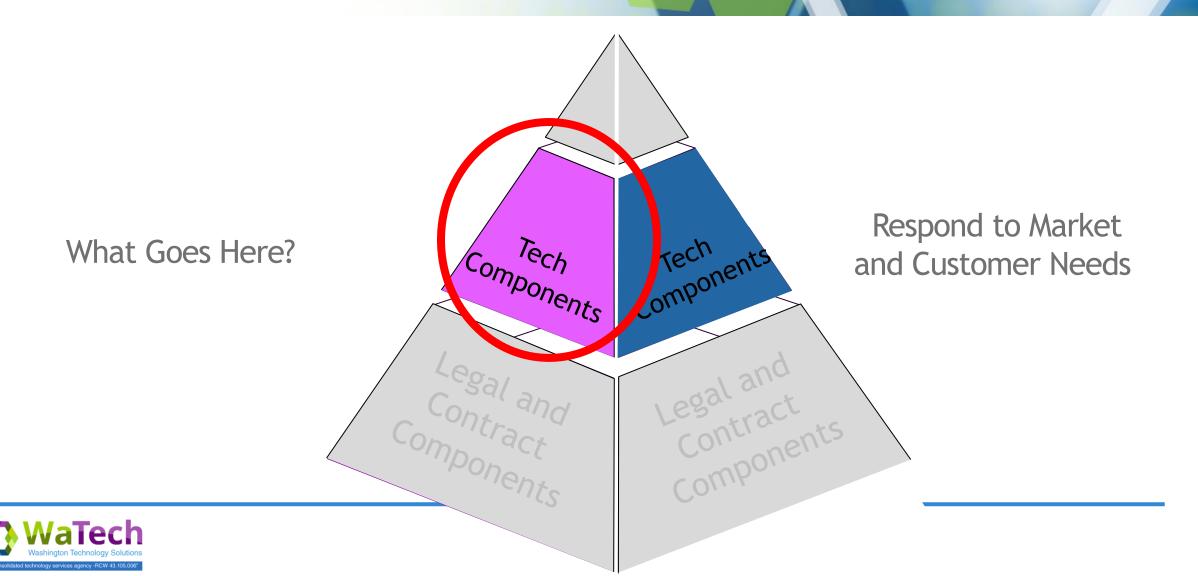
Broker Model - Business Ops

OCM

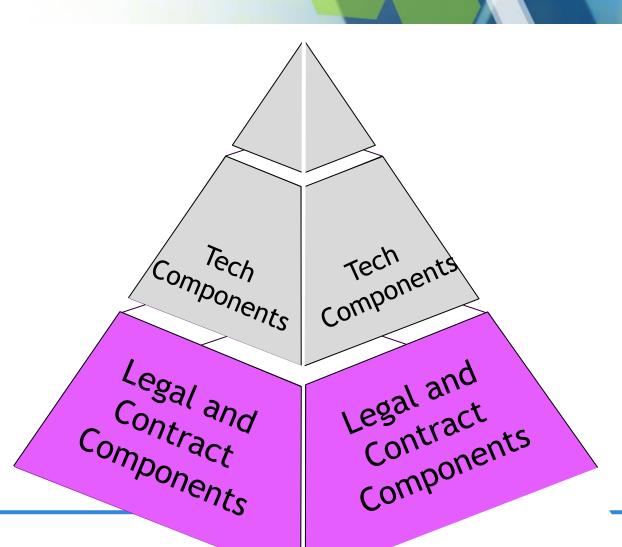
Training



Technology Strategy



Technology Strategy



What Investment Here?



Core Technology Investments

Identity Management Network / Telephony

Web Hosting & Development Office Productivity

Compute and Storage

Data Center Hosting

Applications Dev and Ops

Data Management and Bl

Product and Desktop Support

Cloud Enablement and Brokering



Network and Telephony Deep Dive

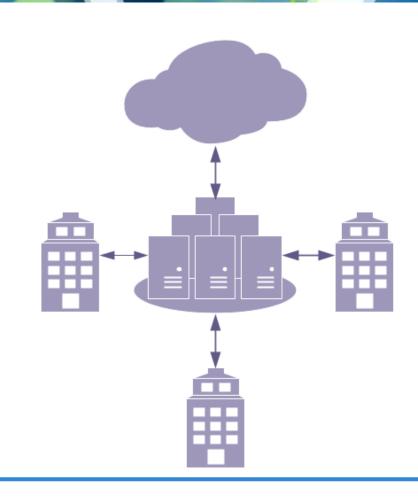
Enterprise Data Consumption





Network Analysis Overview

- Based on previous conversations, we asked two questions
 - Are people using the network in the way that it is intended to be used?
 - Is our Internet connection scaled and protected properly?



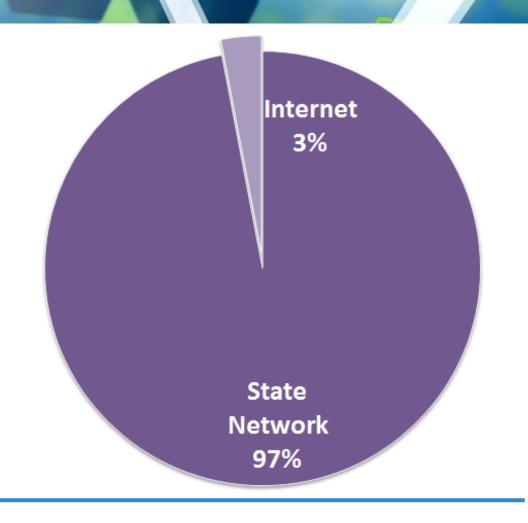


Data Consumption

▶ The bulk of data transmissions stays within the State's network

▶ 3 Petabytes of data per month, or approximately 100Tb per day

▶ The Internet connections account for 3% of the overall network traffic





Overview

Internet traffic poses the greatest security risk.

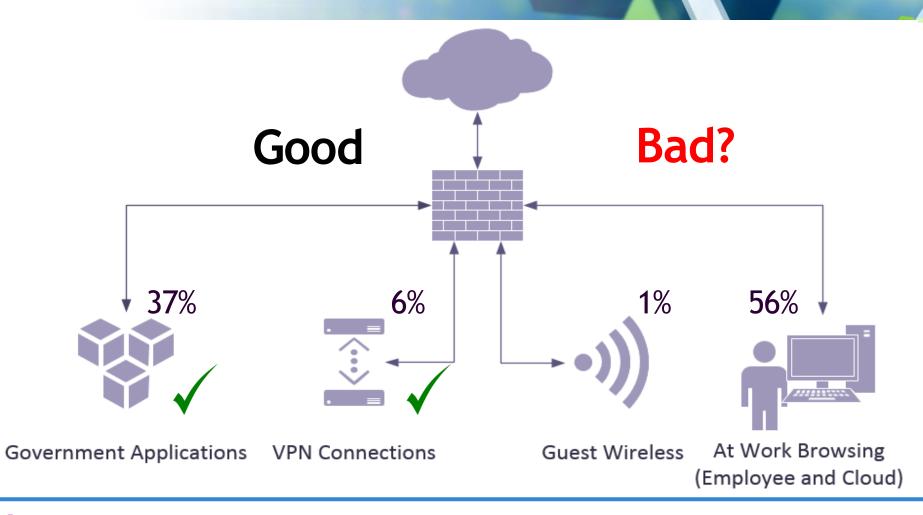
What does the 3% of Internet traffic look like?

• "Good" use vs. "Bad" use

2016 JUNE						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		



Data Consumption





Data Consumption

User generated traffic accounts for only
 1.7% of the overall traffic

The trending of streaming services will need to be monitored for capacity impacts

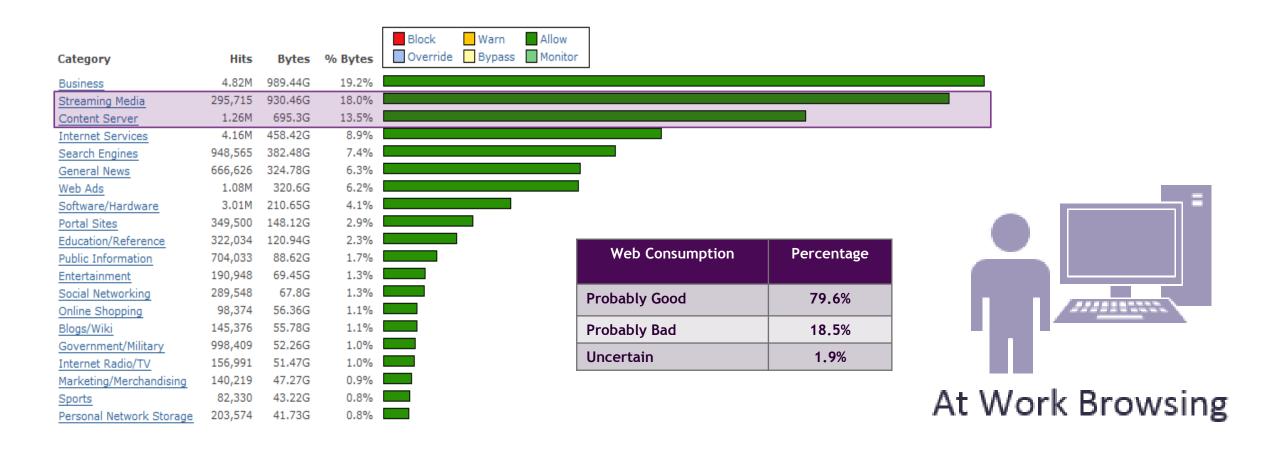




Guest Wireless



Data Consumption - At Work Browsing





Data Consumption - Guest Wireless

- ▶ Trending service has grown over 400% in past 12 months
- Not a significant percentage of Internet traffic during steady-state, but may burst to 30% of Internet traffic





Data Consumption - Bursting Traffic

Options for when user-generated data consumption bursts

	Wired	Guest Wireless
Good Traffic	 Highway to the Cloud Patch Service At Work Browsing	• Traffic Shaping
Bad Traffic	Terms of ServicePolicyGuest Wireless	Terms of ServiceTraffic Shaping

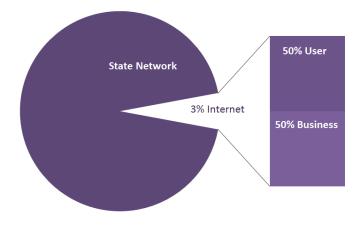


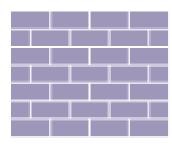
Business Problems





Systemic





Security



Backup Services



Systemic

Primary path to the cloud = The Front Door

 Up to 3.5 Terabytes of data being generated daily from 10 customers





Agency

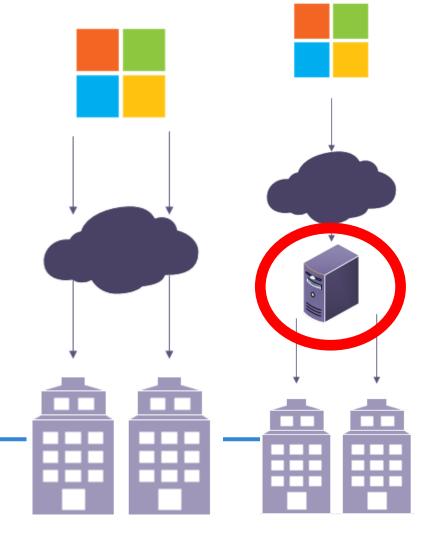
Patch Servers



Systemic

 Multiple connections to the Internet versus a single connection to a patch server

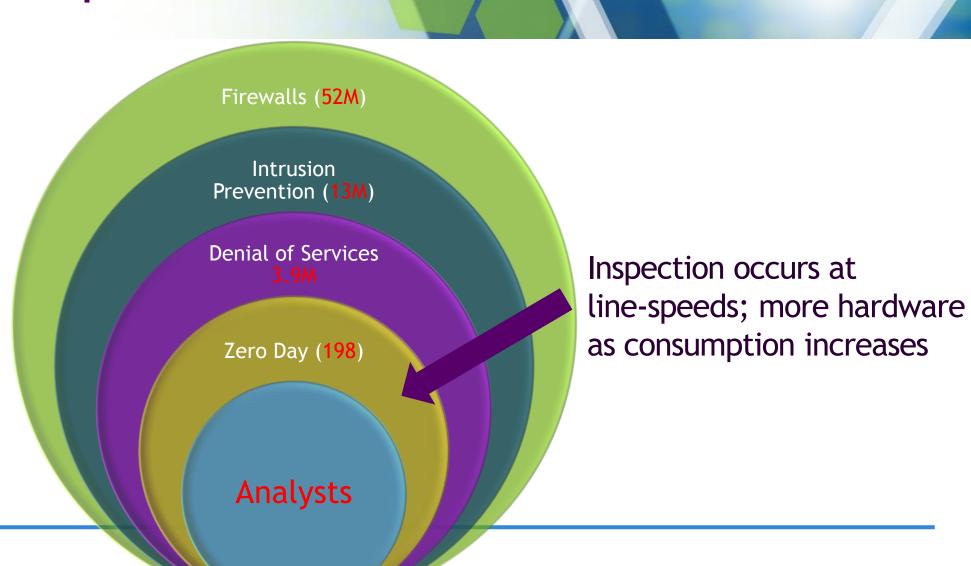
 Traffic reduction for commonly deployed applications





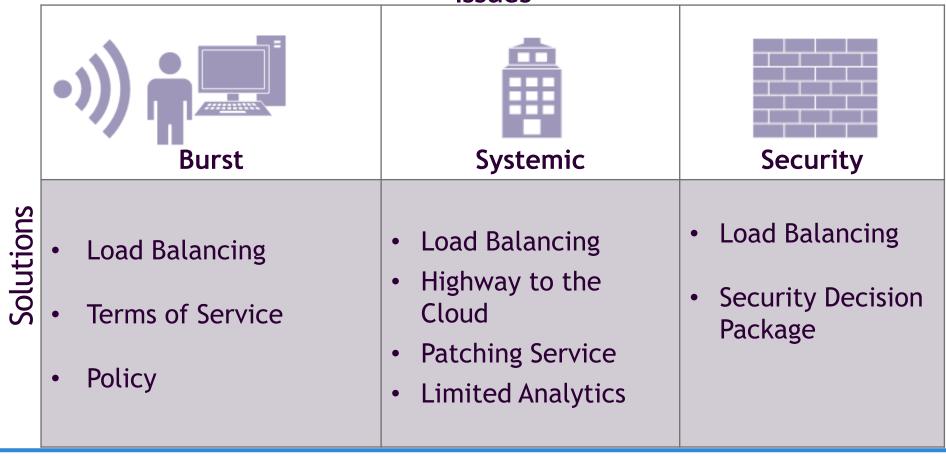
Defense in Depth





Business Problems

Issues





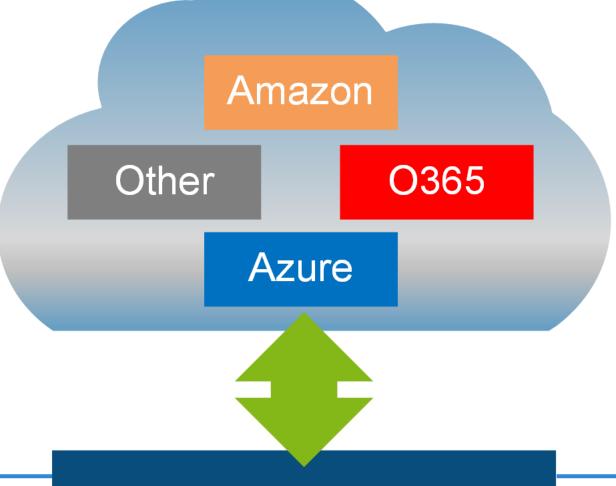
Questions - Burst Strategy

- Currently burst at 6Gb / second
 - Security infrastructure impaired at 4Gb / second
- Requires investment to scale security infrastructure
- Decision package for security investment is in draft
- The requested investment gets us to approximately 12-18 months of coverage





Cloud Enablement Program





State Agencies

Office 365

Enterprise Productivity - Cloud Services

- SharePoint, OneDrive, Skype for Business
- •Subscription licensing model (5 devices per person)



Desktop Productivity (Email, Word, Excel, PPT, others)











Project Initiation







Hire Project Manager

Organization and Governance

Charter

Communication Plan

Formalize Project Teams

Oversight & Quality
Assurance

Assess Business Requirements for Office 365

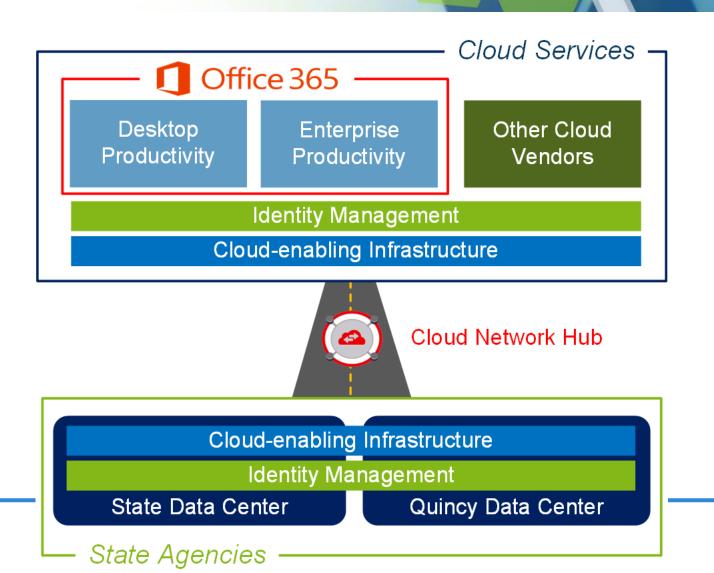
Assess Business
Requirements for
Other Cloud
Services

Identify Lead for Cloud Enablement Project

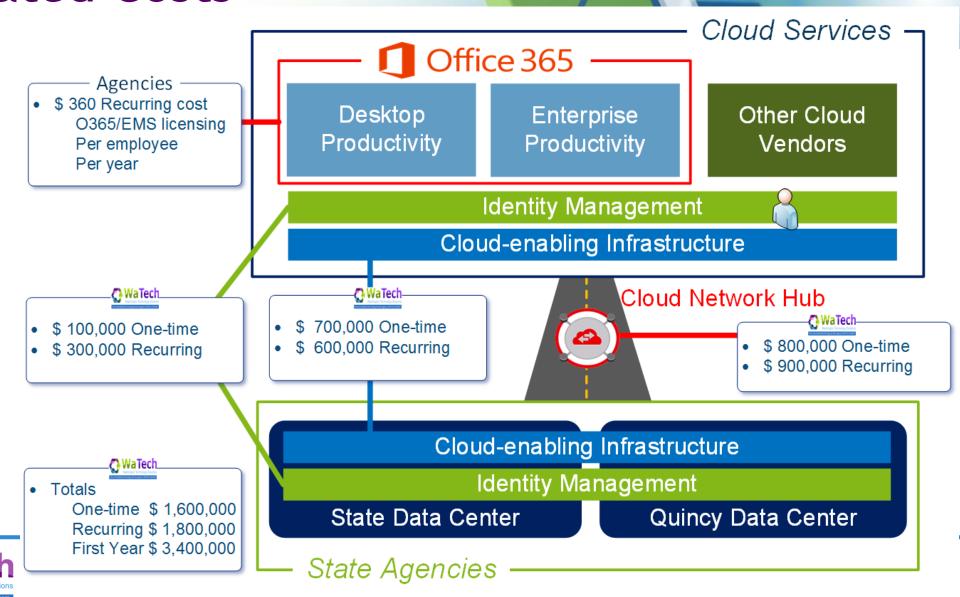
Participate in Stakeholder Committees



What we are building



Estimated Costs



Swim Lanes









Technology



Project Initiation







Hire Project Manager

Organization and Governance

Charter

Communication Plan

Formalize Project Teams

Oversight & Quality
Assurance

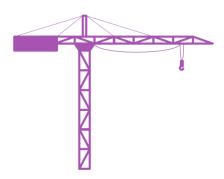
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Identify Lead for Cloud Enablement Project

Participate in Stakeholder Committees





Technology



Build Cloud Network Hub

Build Cloud-enabling Infrastructure

Deploy Identity
Management Service



Assess Network Capacity

One Time Costs

Recurring Costs

Cloud Network Hub

Cloud-enabling Infrastructure

Implement any needed network upgrades



Identity Management Service



Licensing





One Time Costs

Evaluate Cloud Service Provider (CSP) Model

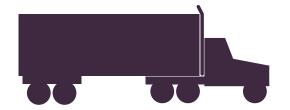
Purchase Enterprise Mobility Suite (EMS) licenses

Recurring Costs

Provide Cloud Service Provider (CSP) Support

Purchase Office 365 Licenses





Migration





One Time Costs

Estimate
Cost and Support
Requirements

Assess Data Security
Requirements

Recurring Costs

Manage Migration to Shared Tenant

Assess Migration Costs

Identify Workloads to Migrate





OCM





One Time Costs

Establish an Enterprise Cloud Program

mplement Business Process changes Train Staff for O365 Support Roles

Implement Business
Process changes

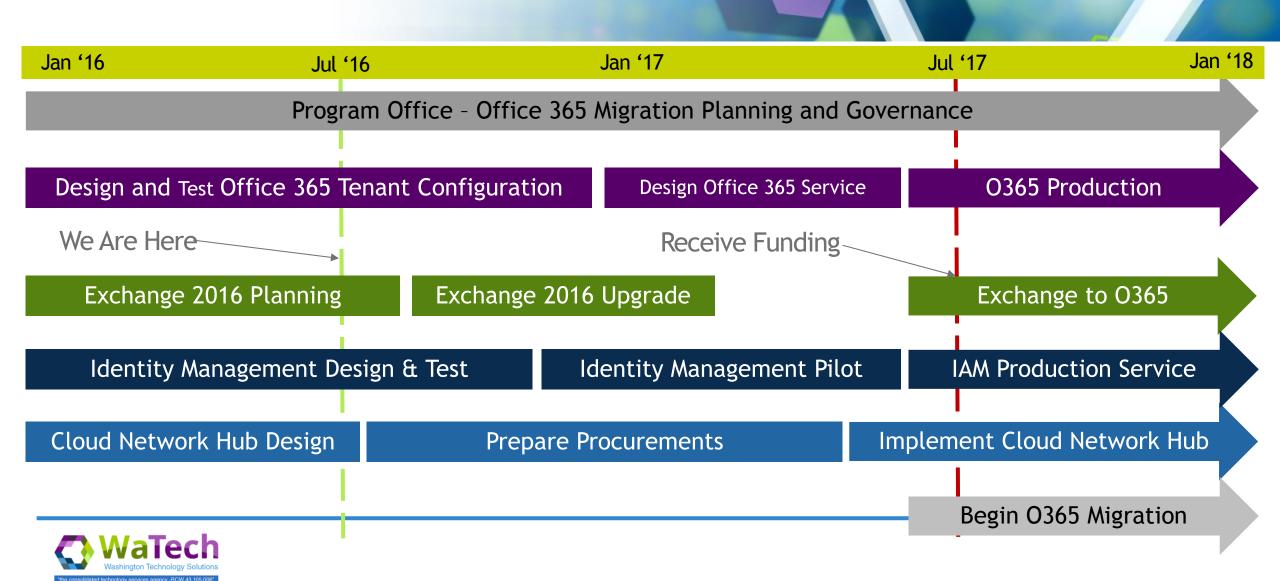
Recurring Costs

Training for Administrators

Training for users



Progress and Milestones



Known Issues











FY 2016 Financial Activity and Progress A Promising Start

Transparency:

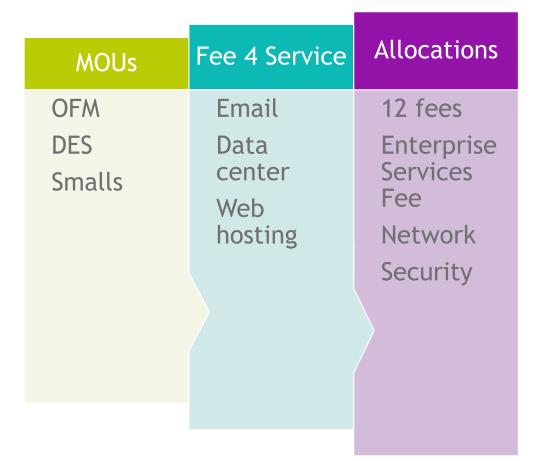
- ✓ Financial Architecture Reflects the Organization of the Agency
- ✓ Organization of the Agency Reflects Customer-Facing Services
- ✓ Accounting and Budget Information Fully Reflected in Enterprise Systems
- ✓ Developed Fiscal Strategy for Cost Recoverability

Accountability:

- ✓ FY 2016 bent the loss curve
- ✓ Submitted Rate Plan
- ✓ Announced Rate Reductions
- Refined Focus on Core Services



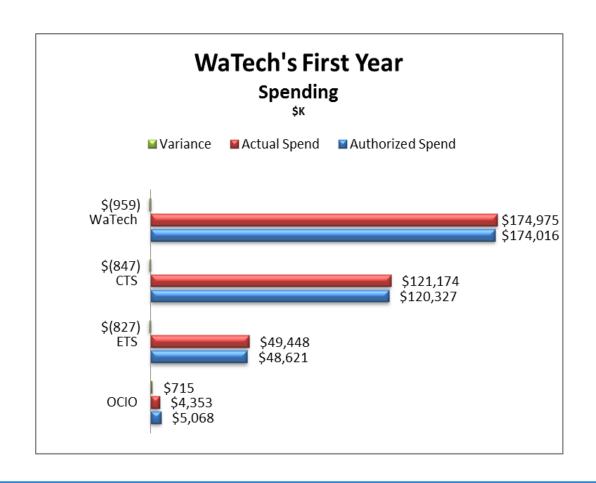
Revenue Sources Reminder





FY 2016 Spending as Anticipated

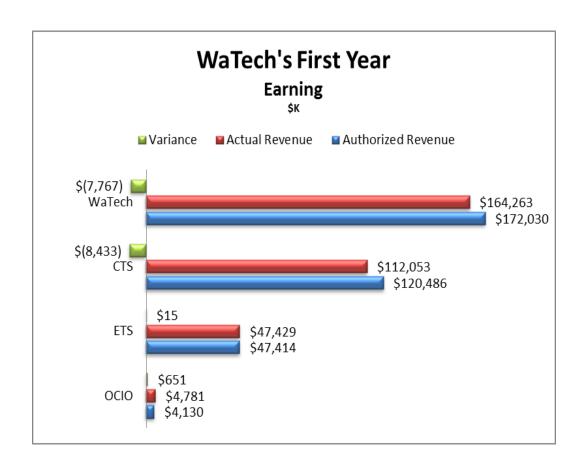
Good News for the Realignment



- Agency spending over authorized level less than 1% (0.55%)
- Cross-agency costs steady
 - Salaries, rent, overhead
- Aggregate view does not illustrate problem



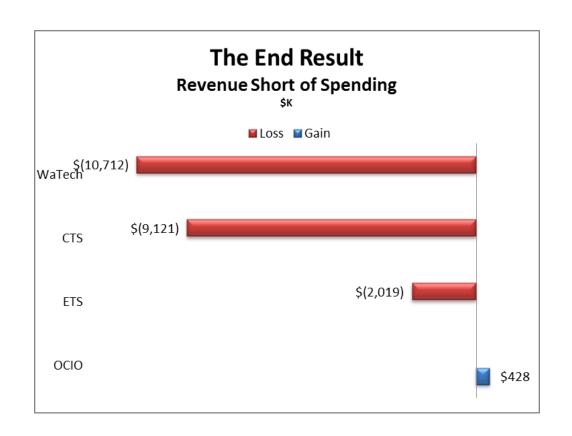
FY 2016 Earning Not as Anticipated Realignment Didn't Address Revenue



- Shortfall concentrated in (FFS) Services:
 - Server Hosting
 - Storage
 - Data Center
- Issues with Allocation Revenue:
 - Security Allocation covered Disaster Recovery investments
 - Network's lower than expected revenue turned out not to be a problem
 - Enterprise Systems revenue not large enough to cover inherited expenses



Better than FY 2015



- FY '15 CTS's operating loss \$17.8m
- 16 WaTech's operating loss \$10.7m
- Visibility post-OB2
- Manage revenue not just expenditure
- Revenue is hard to project
- Biggest success moves from FFS to Allocated



Reasons not Excuses

Revenue Challenges Services with inadequate revenue

- JINDEX
- Dial.wa.gov
- NeoGov
- E-Learning
- Tenant Rent Relief
- FFS Service Rates that haven't moved in over five years.

Expenditure Challenges Unanticipated or unfunded costs

- Olympia Fire Protection
- 3% and 1.8% Salary Adjustments
- Internal Facilities
- Strategic Investments without seed money



Goals for the 2017-19 Biennium Strengthening the Basics

- Focus on Core Capabilities
- Funding/Financing Strategies Geared Toward:
 - Allocations for foundational, widely used, mature services
 - Reviewing rates and service packages
 - Assessing FFS's future financial viability and compatibility with core capabilities



Proposals for the 2017-19 Biennium

WaTech's Budget Request:

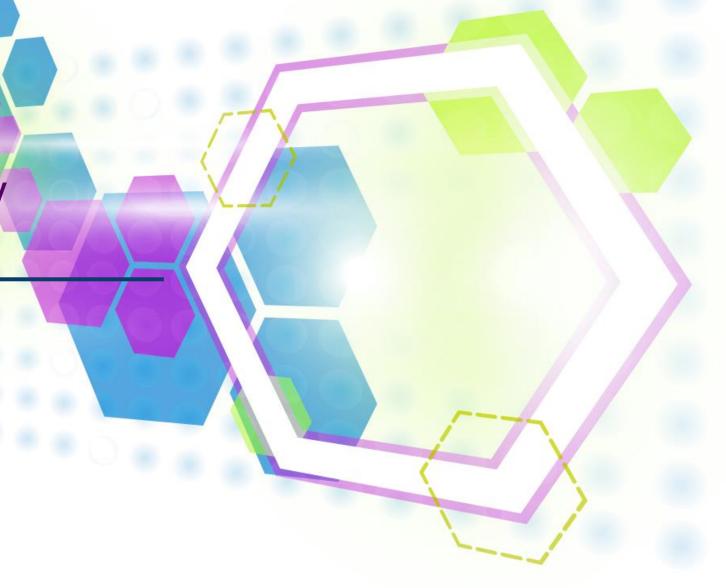
- Evolution of Cloud Access
- Continuing Network and Application Security
- Business Support for IT Investments
- Allocations for Mature, Enterprise Services
- State Data Center Utilization

To support customers' needs for transport, compute, storage whenever where ever in secure and resilient fashion.





Executive Board Briefing July 25, 2016





Reprioritized to Take Action

- WaTech Website
- Customer Portal
- Publish O365 & Cloud Strategy Sheet
- Audit the 3 months of communications (Incident/Change)
- Additional level of monitoring tickets (measure/track)
- Meeting structure: CIO Forum, Quarterly Customer Meeting



3 Strategic Goals





Customer Survey

- Goal
 - Baseline understanding of customers experience
 - Underscore listening message
- Methodology
 - Targeted 75 customers, "buyers of our services"
 - 62 interviews were completed (83%)



Results

- Quantitative and qualitative baseline
- Letter grades: A, B, C, D, F
- Organized by small, medium, large agencies
- Executive summary + detailed report



Themes

- Success/Frustration
- Monopoly/Customer Service
- Communication
- Understanding Agencies
- Value



Recommendation Areas

- Marketing services
- Relationship
- Communication
- Expertise & structure
- Customer service
- Technology & innovation
- Value & pricing



Questions?

