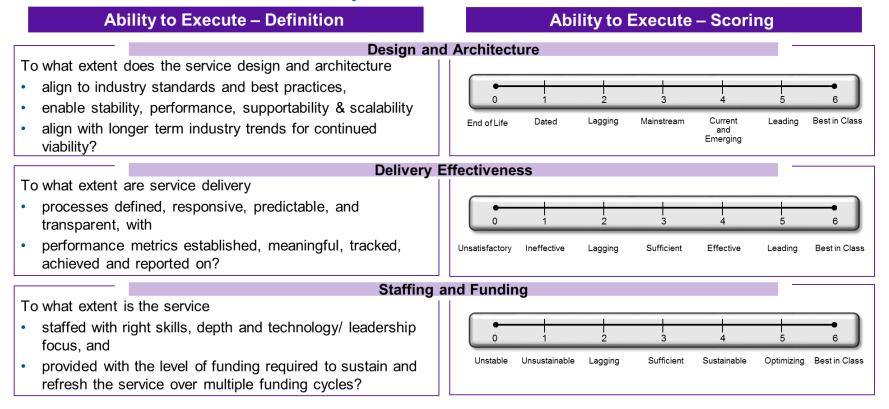
# Appendix – Reference Material

Gartner.

#### **Analysis Methodology Details**

### **Review of the Gartner Framework for Service Evaluation**

Overview of Evaluation Criteria – Ability to Execute



Rating Detail for Ability to Execute – **Design and Architecture** 

Definition	Rating Scale – Rating Explanation				
Design and Architecture					
<ul> <li>To what extent does the service design and architecture</li> <li>align to industry standards and best practices,</li> <li>enable stability, performance, supportability &amp; scalability</li> <li>align with longer term industry trends for continued viability?</li> </ul>	<ul> <li>6 - Best in Class: visionary solution on the leading edge of technology; sets the bar for others to emulate; fully optimized</li> <li>5 - Leading: incorporates leading industry trends and recognized innovative technologies and practices, stable and sustainable</li> <li>4 - Current and Emerging: aligns with current industry practices/trends, stable and sustainable</li> <li>3 - Mainstream: aligns to most industry practices; still stable but may need to be refreshed</li> <li>2 - Lagging: falling behind industry standards/common practices, some stability and/or sustainability issues</li> <li>1 - Dated: substantially behind industry standards, significant stability, sustainability and/or long-term viability concerns</li> <li>0 - End of Life: out of date architecture, limited viability, no easy/clear path forward to upgrade capabilities</li> </ul>				

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Rating Detail for Ability to Execute – **Delivery Effectiveness** 

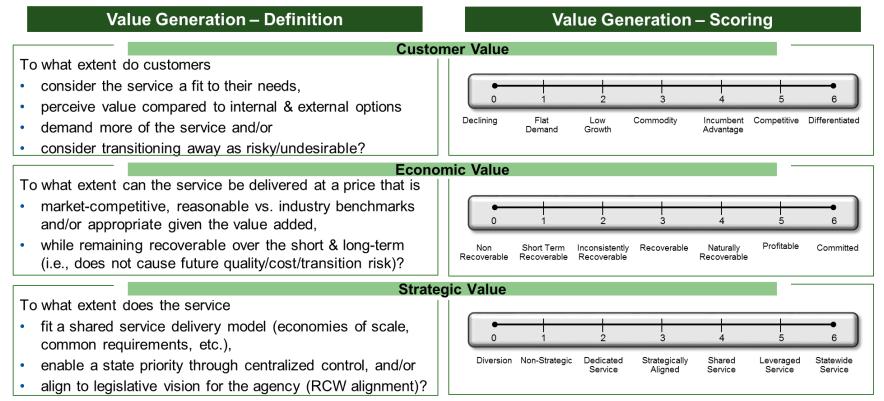
Definition	Rating Scale – Rating Explanation	
Delivery Effectiveness		
	<b>6</b> – <b>Best in Class:</b> High ISO/ITIL maturity with very high level of automation with continuous automation discipline	
	<b>5</b> – <b>Leading</b> : processes are continuously evaluated and optimized, responsive, predictable and transparent. Advanced level of process automation for routine activities such as provisioning	
To what extent are service delivery • processes defined,	<b>4 – Effective:</b> well developed standardized processes followed, customer expectations consistently met (for responsiveness and performance), performance targets are consistently reported and meaningful to customers and includes basic process workflow	
<ul><li>responsive, predictable, and transparent, with</li><li>performance metrics</li></ul>	<b>3</b> – <b>Sufficient:</b> standardized processes defined and widely followed with results that are generally meeting customer performance requirements, performance targets consistently reported but may not be meaningful to customers	
established, meaningful, tracked, achieved and reported on?	2 – Lagging: unstructured/informal processes generally followed; inconsistent results versus documented customer needs, performance targets may be tracked but inconsistently reported or not meaningful to customers	
	1 – Ineffective: a variety of ad hoc processes/tools are in place, performance targets not fully defined or tracked	
	<b>0</b> – <b>Unsatisfactory</b> : processes not defined and controls not in place, performance targets not defined or tracked	

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Rating Detail for Ability to Execute – Staffing and Funding

Definition	Rating Scale and Explanation			
Staffing and Funding				
<ul> <li>To what extent is the service</li> <li>staffed with right skills, depth and technology/ leadership focus, and</li> <li>provided with the level of funding required to sustain and refresh the service over multiple funding cycles?</li> </ul>	<ul> <li>6 - Best in Class: staffing and funding that enables optimized operations while also pursuing new service features and additional ways to add value</li> <li>5 - Optimizing: staffing and funding that enables sustained operations while also pursuing efficiency gains through automation</li> <li>4 - Sustainable: staffing and funding sufficient to maintain service, refresh aging components, and modernize/ improve service over time. Full complement of resources and critical skills sets</li> <li>3 - Sufficient: staffing and funding sufficient to maintain current capability level and refresh critical components before they reach end of service. Sufficient staffing such that attrition of key resources does not put service operations at risk</li> <li>2 - Lagging: lacking staffing or funding to make improvements to improve stability or address key customer needs. Limited resources with some critical capabilities reliant on 1-2 key individuals. Components refreshed only when end of life is reached</li> <li>1 - Unsustainable: lacking staffing or funding to replace failing or out of date components; dependent on specific individuals for critical, hard to find skills or institutional knowledge</li> <li>0 - Unstable: lacking critical skills and funding to maintain current operations at service levels acceptable to the customer</li> </ul>			

Overview of Evaluation Criteria - Value Generation



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Rating Detail for Value Generation – Customer Value

Definition	Rating Explanation			
Customer Value				
<ul> <li>To what extent do customers</li> <li>consider the service a fit to their needs,</li> <li>perceive value compared to internal &amp; external options,</li> <li>demand more of the service and/or,</li> <li>consider transitioning away as risky and/or undesirable?</li> </ul>	<ul> <li>6 - Differentiated: Most customers perceive this service to be the superior option compared to internal/external alternatives. The service meets technical and customer service requirements</li> <li>5 - Competitive: Most customers perceive this service to be about equal to internal/external alternatives and will likely choose to use it so long as service experience continues to be acceptable, contracting/onboarding is easy and cost remains competitive</li> <li>4 - Incumbent Advantage: Service is perceived as a reasonable option by most customers even though it may not meet all requirements; customers may perceive high cost, risk or effort associated with transitioning away from the service; or customers are mandated to use this service</li> <li>3 - Commodity: Service is perceived as a reasonable option by most customers. Some customers believe that outsourced or internally sourced options are preferable</li> <li>2 - Low Growth: Limited net new demand for the service because some customers do not perceive the service as reasonable when compared to alternatives</li> <li>1 - Flat Demand: Demand for the service is stagnant. Key customers have stated intention to hold at their current footprint, allow for organic growth, or begin to transition away from the service</li> <li>0 - Declining: Key customers have stated their intention to transition away from the service due to the availability of lower price and/or higher quality alternatives in the marketplace</li> </ul>			

Rating Detail for Value Generation – Economic Value

Definition	ition Rating Explanation		
Economic Value			
<ul> <li>To what extent can the service be delivered at a price that is</li> <li>market-competitive, reasonable vs. industry benchmarks and/or appropriate given the value added by WaTech,</li> <li>while remaining recoverable over the short &amp; long-term (i.e., does not cause future quality/cost/transition risk)?</li> </ul>	<ul> <li>6 - Committed: State is bound to subsidizing delivery due to previous investments, transitioning away from the service would be more costly (agency non-adoption incurs extra cost to the state)</li> <li>5 - Profitable: Service can be priced at a premium due to high valued delivered, limited customer/State options, extreme level of efficiency or critical assets leverage</li> <li>4 - Naturally Recoverable: WaTech is able to price the service for full recoverability, including refresh/replacement of components and evolution of components over multiple biennia</li> <li>3 - Recoverable: WaTech is able to demonstrate through independent (i.e., not WaTech commissioned) benchmarks that costs are in line with an "apples to apples" comparison with alternatives</li> <li>2 - Inconsistently Recoverable: Generally recoverable but sometimes requires funding infusions to cover unexpected variation in revenue or expenses</li> <li>1 - Short Term Recoverable: WaTech is able to demonstrate through independent (i.e., not WaTech commissioned) benchmarks that costs are in line with an "apples to apples" comparison with alternatives</li> <li>0 - Non Recoverable: WaTech is able to demonstrate through independent (i.e., not WaTech commissioned) benchmarks that costs are in line with an "apples to apples" comparison with alternatives, but costs can only be kept within range of benchmarks through understaffing and deferred maintenance and capital investment</li> </ul>		

Rating Detail for Value Generation – **Strategic Value** 

Definition	Rating Explanation		
Strategic Value			
<ul> <li>To what extent does the service</li> <li>fit a shared service delivery model (economies of scale, common requirements, etc.),</li> <li>enable a state priority through centralized control, and/or</li> <li>align to legislative vision for the agency (RCW alignment)?</li> </ul>	<ul> <li>6 - Statewide Service: mandated as an essential service</li> <li>5 - Leveraged Service: a strategically aligned shared service which leverages a common asset or capability that agencies cannot create or sustain on their own</li> <li>4 - Shared Service: A strategically aligned service which has a common set of requirements which allow it to be delivered centrally with economies of scale</li> <li>3 - Strategically Aligned: Not a leveraged or shared service, but closely aligned with documented and accepted State/WaTech strategic priorities</li> <li>2 - Dedicated Service: Service is specific to a small set of critical customers (or only one), and the customer(s) or the State believes that WaTech must provide the service. As no economies of scale are expected, the State/customers may be willing to pay a premium for this service</li> <li>1 - Non-Strategic: Service does not align with the shared delivery model, State/WaTech strategic priorities, legislative charter, but which does not divert resources and funding away from the core mission</li> <li>0 - Diversion: A non-strategic service which does not have a compelling customer/business/economic case justifying consumption of agency resources that could otherwise be redeployed to a strategic service.</li> </ul>		

### List of Acronyms

AAD – Azure Active Directory ACCT – Financial Reports ADFS – Active Directory Federation Services AFRS – Agency Financial Reporting System AP - Access Point AR – Enterprise Accounts Receivable System ASM – Application Security Management BATS – Bill Analysis and Tracking System BDS – Budget Development System BYOD – Bring Your Own Device CAMS – Capital Asset Management System CAS – Cost Allocation System Centrex – Telephony Central Exchange CERT – Computer Emergency Readiness Team **CFN - Campus Fiber Network** CICS – Customer Information Control System CIM – Compensation Impact Model COLO – Data Center Colocation Services CPU – Central Processor Units **CRL** - Certificate Revocation List CRMS - Constituent Relationship Management System CTS – Consolidated Technology Services DCI – Data Center Interconnect DCIM - Data Center Infrastructure Management DF – Disclosure Forms Application DH - Data Hall DHCP – Dynamic Host Configuration Language DIA – Direct Internet Access **DIS – Department of Information Services** DLP – Data Loss Prevention DR/BC - Disaster Recovery / Business Continuity DWDM – Dense Wavelength Division Multiplexing EAD – Enterprise Active Directory EADSC - Enterprise Active Directory Steering Committee EOS – Enterprise Output Solution EPO – Enterprise Program Office EPS – Events Per Second ERP – Enterprise Resource Planning ESS – Employee Self Service FAD – Forest Application Developers

FFS – Fee-for-Service

FNS - Fiscal Note System

FOOB - Facility Out-of-Band

FRG – Forest Resource Group

- FTE Full Time Equivalent
- FW Firewall
- FY Fiscal Year
- GB Gigabyte
- GJXDM Global Justice XML Data Model
- HRMS Human Resource Management System
- IDS Intrusion Detection System
- IGN Inter-Governmental Network
- IP Internet Protocol
- IPAM Internet Protocol Address Management
- IPS Intrusion Protection System
- IVR Interactive Voice Response
- JV Journal Voucher process
- LAN Local Area Network
- LD Long Distance
- LDoS Last Day of Support.
- LMR Land Mobile Radio
- LTE Long-Term Evolution
- MAC Moves, Adds, and Changes
- MAN Metropolitan Area Network
- MDM Mobile Device Management
- MEP Manufacturing Extension Partnership
- MIM Microsoft Identity Manager
- MPLS Multiprotocol Label Switching
- MPS Malware Protection System
- MRC Monthly Recurring Charge
- MS Microsoft
- MSA Master Services Agreement
- MSSP Managed Security Services Provider
- MTTR Mean Time to Repair
- MVS Medium voltage substations
- NAS Network Attached Storage
- NLT No Later Than (represents the last day of support, end-of-life date, and/or
- NOC Network Operations Center
- NPS Net Promoter System
- NRC Non-Recurring Charge
- NSD Network Services Division
- NSX VMware software defined networking tool
- NTIA National Telecommunication and Information Administration
- O&M Operations and Maintenance
- OCIO Office of the CIO
- OCS Office of Cybersecurity
- OCSP Online Certificate Status Protocol
- OFM Office of Financial Management

- OOB Out-of-Band
- OSS Operations Support Systems
- OTV Overlay Transport Virtualization
- OWA Outlook Web Application
- PAM Privileged Access Management
- PBX Private Branch Exchange
- PDU Power Distribution Unit
- PE/CE Provider and Customer Edge
- PGN Public-facing Government Network
- PoE Power over Ethernet
- PSE Puget Sound Energy
- PSTN Public Switched Telephone Network
- PUE Power Usage Effectiveness
- QDC Quincy Data Center
- RAM Random Access Memory
- RCW Revised Code of Washington
- RFI Request for Information
- RFP Request for Proposal
- RFQ Request for Quote
- RJE Remote Job Entry
- RPM Results through Performance Management System
- SaaS Software as a Service
- SAN Storage Area Network
- SAW Secure Access Washington
- SBS Server Backup Services
- SCCM System Center Configuration Manager
- SDC State Data Center
- SEAP SAW Enabled Agency Portal
- SGN State Government Network
- SIEM Security Information and Event Management
- SIP Session Initiation Protocol
- SLA Service Level Agreement
- SLD Switched Long Distance
- SLO Service Level Objective
- SMON State Metropolitan Optical Network
- SOA Service Oriented Architecture
- SOC Security Operation Center
- SPS Salary Projection System
- SQL Structured Query Language
- SSE Shared Services Email
- SSL Secure Sockets Layer
- SVPS Statewide Vendor/Payee Services
- TALS The Allotment System
- TDM Time Division Multiplexors
- TEMS Travel and Expense Management System

TMS – Time Management System

TOS – Terms of Service

TSB – Technology Services Board

UHP – Ultra High Performance

UPS – Uninterruptible Power Supply

UX – User Experience

VA – Vulnerability Assessment

VDA – Virtual Delivery Agent

VESDA – Very Early Smoke Detection and Alarm

VLAN – Virtual Local Area Networks.

VM – Virtual Machine

VMDK – Virtual Machine Disk

VoIP - Voice over IP

VPN – Virtual Private Network

vRealize - VMware benchmarking and billing tool

VRF – Virtual Routing and Forwarding

VRS – Version Reporting System

vSAN – VMware Storage Area Network virtualization tool

WAN – Wide Area Network

WWA – Washington Work Force Analytics

### List of Participating Agencies (Interviews and Focus Groups)

Gartner worked with WaTech to ensure broad and representative agency participation in the project. As a first step Gartner attended a CIO Forum meeting in order to request volunteers, and then worked with WaTech to create a list of agencies of various sizes, and types, to invite. Twenty four agencies elected to participate in the interviews and focus groups.

Interviews targeted CIO/ IT Director level participants, though agency IT leadership often elected to pull in additional managers, both technical and business, to provide further feedback during interview sessions. Focus groups targeted the participation of Technical Managers with strong understanding of the current services; but several CIOs and their delegates also attended.

#	Agency	#	Agency
1	ACB	13	DSHS
2	AG	14	DVA
3	СОМ	15	ECY
4	DAHP	16	ESD
5	DEL	17	L&I
6	DES	18	OIC
7	DFI	19	OFM
8	DNR	20	SAO
9	DOC	21	SEC
10	DOH	22	WIPP
11	DOL	23	WSDOT
12	DRS	24	WSP

 Table 1.
 List of Agencies Participating in Interviews and Focus Groups