

World-Class Defined and Enabled





The Hackett Group May 16, 2014

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# **Project Background**





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## State of Nevada's objectives in completing the benchmark

- Establish a baseline of State of Nevada's General and Administrative (G&A) organizations
  - Identify staff mix and resource allocation
  - Identify key cost drivers
- Analyze State of Nevada's G&A functions
  - Gain insight to how leading functions are organized and staffed
  - Identify ways to better leverage technology solutions
  - Identify performance gaps in best practice usage as compared to our database
- Provide a balanced, qualitative perspective through Executive Interviews and comprehensive Stakeholder Surveys
- Develop improvement recommendations



## Hackett IT process scope

Design	Build	Run	Manage
<ul> <li>IT Business Planning <ul> <li>Alignment</li> <li>Project Prioritization</li> <li>Communication</li> </ul> </li> <li>Enterprise Architecture Planning <ul> <li>Governance</li> <li>Standards Management</li> </ul> </li> <li>Emerging Technologies <ul> <li>Technology Evaluation</li> </ul> </li> </ul>	<ul> <li>Infrastructure Development         <ul> <li>Planning</li> <li>Construct</li> <li>Implement</li> </ul> </li> <li>Application Development and Implementation         <ul> <li>Planning</li> <li>Construct</li> <li>Implement</li> </ul> </li> <li>Quality Assurance         <ul> <li>Change Management</li> </ul> </li> </ul>	<ul> <li>Infrastructure Management         <ul> <li>Operations Management</li> <li>Security Management</li> <li>Disaster Recovery Planning</li> </ul> </li> <li>End User Support         <ul> <li>Help Desk</li> <li>End User Training</li> </ul> </li> <li>Application Maintenance         <ul> <li>Application Support</li> <li>Enhancement Delivery</li> <li>Upgrade Execution</li> </ul> </li> <li>Risk Management         <ul> <li>Audit and Compliance</li> </ul> </li> </ul>	<ul> <li>Function Management         <ul> <li>Function Oversight</li> <li>Personnel Management</li> <li>Policy and procedures oversight</li> </ul> </li> </ul>

support <u>unique</u>, large scale, focused technology / applications that are not common from organization to organization must be excluded.

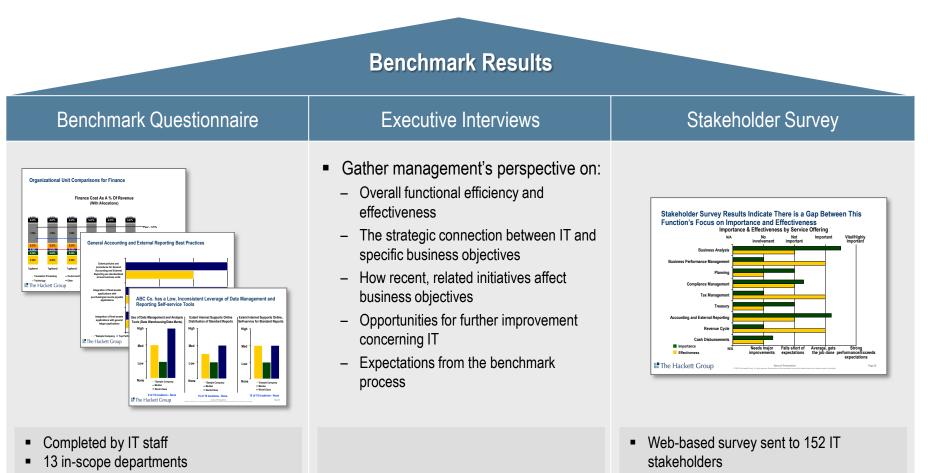
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## **Departments/Agencies Within Scope**

In-Scope Agencies (Finance, HR, IT, Procurement)			
Department of Administration	Department of Employment, Training & Rehabilitation (DETR)	Department of Public Safety	
Administrative Services	Department of Health & Human Services (DHHS)	•Highway Patrol	
<ul> <li>Buildings and Grounds</li> </ul>	Welfare and Support Services	<ul> <li>Parole and Probation</li> </ul>	
•Public Works Board	<ul> <li>Aging and Disability Services Division</li> </ul>	•General Services Division	
•Purchasing	Division of Child and Family Services (DCFS)	<ul> <li>Investigations Division</li> </ul>	
Human Resource Management	•Health Division	•State Fire Marshall Division	
Enterprise IT Services	Division of Health Care Financing and Policy	•Capitol Police Division	
Budget Division	Mental Health and Developmental Services	•Training	
State Department of Agriculture	Department of Motor Vehicles (DMV)	Office of Traffic Safety	
Department of Business & Industry (B&I)	State Gaming Control Board	•Division of Emergency Management/Homeland Security	
Department of Conservation & Natural Resources	The Nevada Judiciary	Department of Taxation	
Department of Corrections	Nevada Department of Transportation (NDOT)	Office of the State Treasurer	

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## There are three key inputs to the benchmark project



 Responses received from 76 IT stakeholders (50%)

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# Benchmark results should be evaluated through the of the specific requirements of State of Nevada's operating parameters

What this benchmark is	What this benchmark is not	
A starting point	the end answer	
An assessment of where efforts should be focused	a detailed analysis of how to redesign processes	
Best practice comparisons	a competitive analysis	
Process based comparison	an exact match to organizational departments	
One input to setting targets	the only input	
A broad look at the IT function	going to cover all aspects of organization operations	

## Hackett's IT Benchmark

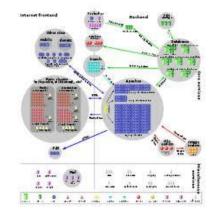
Focuses on the value of IT from a business perspective



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## **Other IT Benchmarks**

Focus on the mechanics of IT from an internal IT perspective



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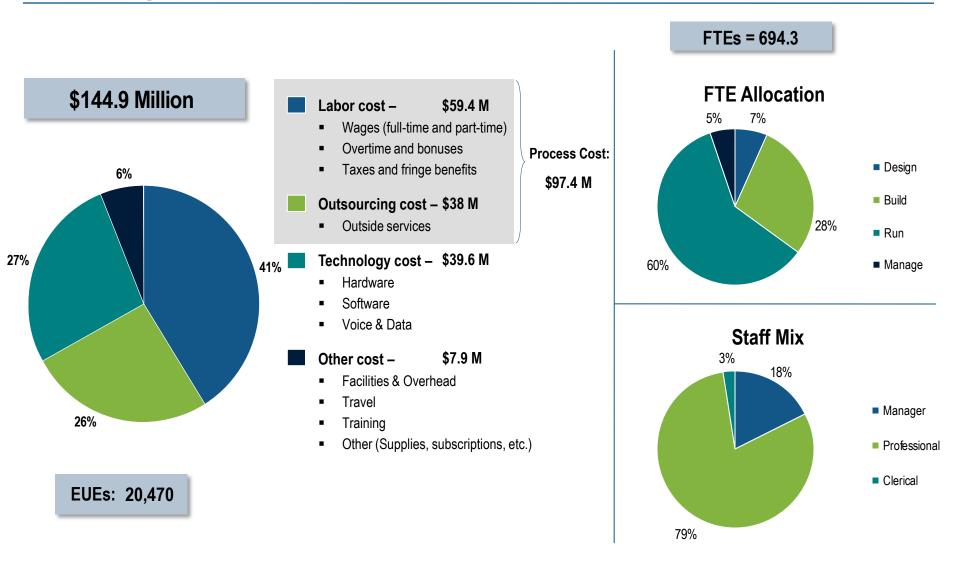
# **State of Nevada IT Function Baseline**





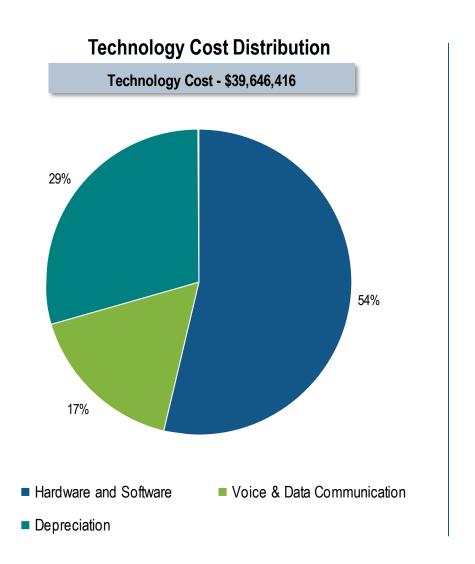
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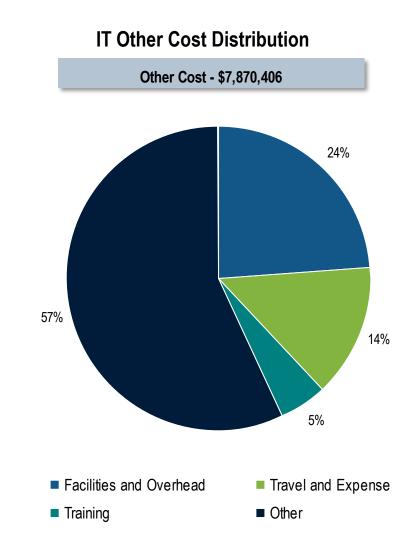
# State of Nevada's baseline IT cost is \$144.9 million with 694.3 FTEs supporting IT



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# State of Nevada's technology and other costs





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# **Executive Summary**





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## **Key Observations - Information Technology**

<ul> <li>State of Nevada's overall IT performance is bottom quartile (25<sup>th</sup> percentile) in both efficiency and effectiveness.</li> <li>Technology enablement to support internal processes is lagging across the state.</li> <li>Lack of sufficient state funding coupled with a fragmented support structure results in varying performance by agency and disparate systems.</li> <li>State baldeers feel that IT is resource constrained and complain about project delivery and extra performance constrained.</li> </ul>
• Stakeholders feel that IT is resource constrained and complain about project delivery and sub-par customer service.
<ul> <li>State of Nevada's reported IT cost per end user is on par. However, IT cost as a percentage of revenue is notably high due to Nevada's modest revenue. There is not enough visibility into the true total IT cost due to the way costs are reported.</li> <li>Overall process cost (labor + outsourcing) per end user is high driven by more FTEs, more outsourcing spend and high cost for Application Development and End User Support.</li> </ul>
<ul> <li>Like many states, Nevada's technology platform is built upon decentralized legacy systems and architecture.</li> <li>Nevada's technology cost is low. The ERP (Advantage) is owned by the state, with no vendor support costs. Technology spending was hampered due to budget cuts and is naturally lower in the 2<sup>nd</sup> year of the biennium.</li> <li>Nevada has low levels of automation and self-service to support business process performance.</li> </ul>
<ul> <li>Project delivery performance for infrastructure projects is low as there are not strong repeatable processes in place.</li> <li>Application project delivery is reported as favorable by IT with a keen focus on budget, but is likely overstated. Stakeholder sentiment suggests that much of the demand is not addressed and projects are often delayed.</li> <li>Benefits realization is high, but business case utilization and ROI tracking need to be improved.</li> <li>With a high number of help desk requests, Nevada struggles with first contact resolution (52%)</li> </ul>
• 30% of the technology portfolio is considered as managed in shared services.
<ul> <li>Adherence to standards is lower than typical in all areas.</li> <li>Internal SLAs are not in place and no state-wide SLAs exist.</li> <li>There is minimal use of standard service methodologies</li> </ul>
• Stakeholders acknowledge the budget pressures that IT has to contend with, but desire more / better communication
<ul> <li>and faster response times.</li> <li>IT's most significant effectiveness gaps are in communication, flexibility and strategic thinking &amp; analysis.</li> <li>Over 60% of Stakeholders view IT as having little or no involvement in daily operations of the organization</li> </ul>
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# State of Nevada's IT function has opportunities to improve in both efficiency and effectiveness

#### PLAN EFFECTIVENESS Hackett Value Grid<sup>™</sup> **Emerging Technologies Knowledge** High 1Q **BUILD EFFECTIVENESS** World-Class **Application Project Delivery Effectiveness\*** Infrastructure Project Delivery **Project Benefits Realization** Effectiveness 1Q **BUS. ENABLEMENT EFFECTIVENESS Project Return on Investment (ROI) Business Process Automation** Self-service Enablement SLA Performance – Internal SLA Performance – External **Help Desk First Contact Resolution** Low Efficiency ► Hiah Metric is at or exceeds Median of World-Class State of Nevada Metric is between Median of Peer Group and World-Other Class Organizations Metric is below Peer Group Median

**BUILD EFFICIENCY** 

- Application Project Delivery On Time\*
- Application Project Delivery On Budget\*
- Infrastructure Project Delivery On Time\*
- Infrastructure Project Delivery On Budget\*

#### RUN EFFICIENCY



Note: The ranking of the drivers are a representation of gaps to World-Class and are not a direct indicator of where to focus/ launch initiatives. Specific action plans should not be developed until after the benchmark results are assessed within the context of the functional and business strategies.

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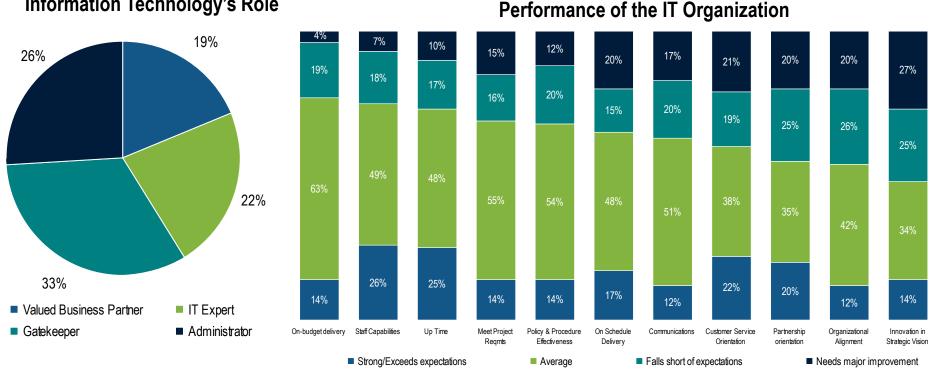
Role of IT\*

Effectiveness\*

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\* Partial or all data from Stakeholder Survey

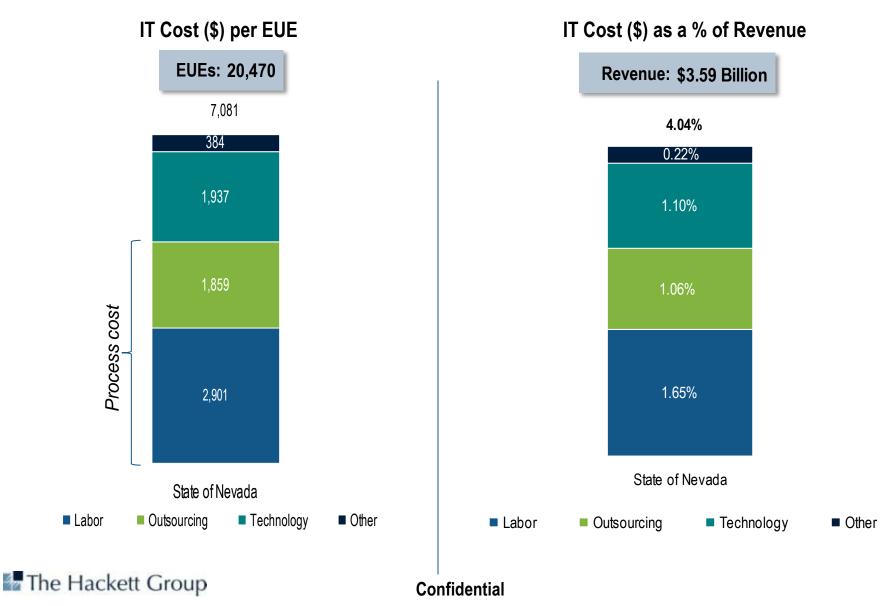
# Stakeholder Survey reveals opportunities for IT to improve in customer service, partnership and innovation



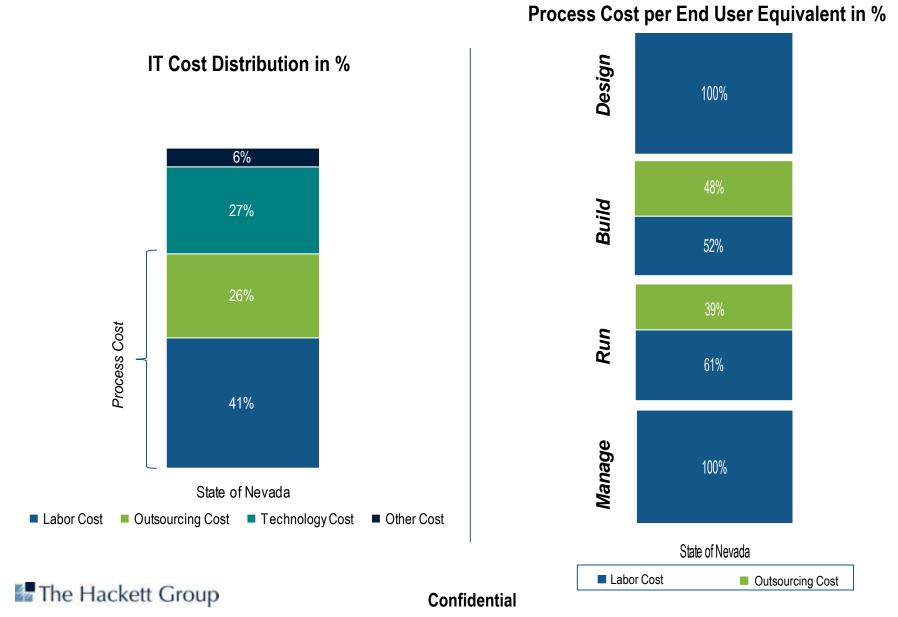
#### Information Technology's Role

- "They are good people who want to do a good job. Unfortunately they are the victims of the state budget crisis just like the rest of the agencies. The State gets what it pays for in terms of technical skill sets and equipment."
  - "Serve the people that pay for their services in a timely manner. It takes too long to get simple day-to-day items fulfilled"
- Representative Stakeholder Comments
- "Listen to the customers about their needs to improve program efficiency. Offer solutions and/or options to meet those needs. Understand the regulations, policies and procedures associated with the program (internal customer). Provide adequate resources to meet the needs of the customer"
  - [Start] Staving up on technology and utilizing current software and infrastructure technology.
  - [Start] Communicating better what they're doing, who to go to for what services, and improving project management.

# Nevada's IT cost per EUE and cost as a percentage of revenue



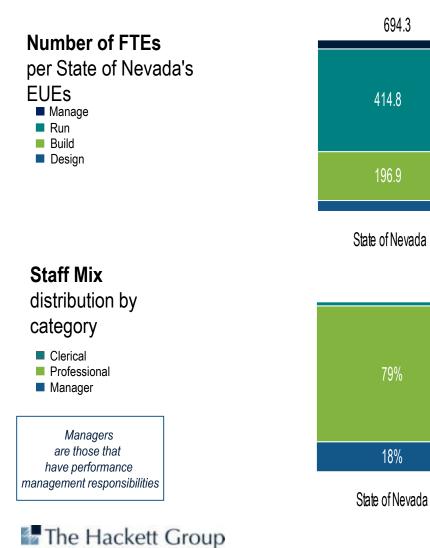
# Nevada has a high allocation of outsourcing cost – particularly for the Build processes



# 70% of Nevada's IT outsourcing cost supports Health Care Financing and Policy and DETR

Process	Outsourcing Cost	Total	
Infrastructure Management	\$ 3,527,130		
End User Support	\$ 4,279,242		
Application Maintenance	\$ 3,570,042	\$ 16,874,0	
Application Development and Implementation	\$ 5,497,625		
Infrastructure Management	\$ 10,161		
Application Maintenance	\$ 488,936	• • • • • • •	
Application Development and Implementation	\$ 9,116,140	\$ 9,622,6	
Quality Assurance	\$ 7,440		
Infrastructure Management	\$ 6,204,127	\$ 6,204,1	
End User Support	\$ 1,095,266		
Application Maintenance \$ 1,192,666		\$ 3,901,6	
Application Development and Implementation	\$ 1,613,701		
Infrastructure Management	\$ 335,962		
Application Maintenance	\$ 274,082	\$ 671,9	
Application Development and Implementation	\$ 61,880		
Infrastructure Management	\$ 134,531		
End User Support	\$ 40,000	\$ 312,1	
Infrastructure Development	\$ 16,800	φ 312,1	
Application Maintenance	\$ 120,815		
Application Maintenance	\$ 300,000	\$ 300,0	
Application Development and Implementation	\$ 70,265	\$ 70,2	
Application Maintenance	\$ 50,000	\$ 50,0	
Application Development and Implementation	\$ 42,200	\$ 42,2	
· · · ·	Infrastructure Management         End User Support         Application Maintenance         Application Development and Implementation         Infrastructure Management         Application Maintenance         Application Development and Implementation         Quality Assurance         Infrastructure Management         End User Support         Application Maintenance         Application Maintenance         Application Maintenance         Application Maintenance         Application Development and Implementation         Infrastructure Management         End User Support         Infrastructure Development         Application Maintenance         Application Maintenance	Infrastructure Management\$ 3,527,130End User Support\$ 4,279,242Application Maintenance\$ 3,570,042Application Development and Implementation\$ 5,497,625Infrastructure Management\$ 10,161Application Maintenance\$ 488,936Application Development and Implementation\$ 9,116,140Quality Assurance\$ 7,440Infrastructure Management\$ 6,204,127End User Support\$ 6,204,127End User Support\$ 1,095,266Application Development and Implementation\$ 1,192,666Application Development and Implementation\$ 1,613,701Infrastructure Management\$ 335,962Application Development and Implementation\$ 1,613,701Infrastructure Management\$ 335,962Application Development and Implementation\$ 61,880Infrastructure Management\$ 134,531End User Support\$ 40,000Infrastructure Management\$ 134,531End User Support\$ 40,000Infrastructure Management\$ 134,531End User Support\$ 40,000Infrastructure Development and Implementation\$ 61,880Infrastructure Development\$ 168,00Application Maintenance\$ 120,815Application Maintenance\$ 300,000Application Maintenance\$ 300,000Application Maintenance\$ 300,000Application Maintenance\$ 50,000	

# Nevada carries a relatively high number of IT FTEs



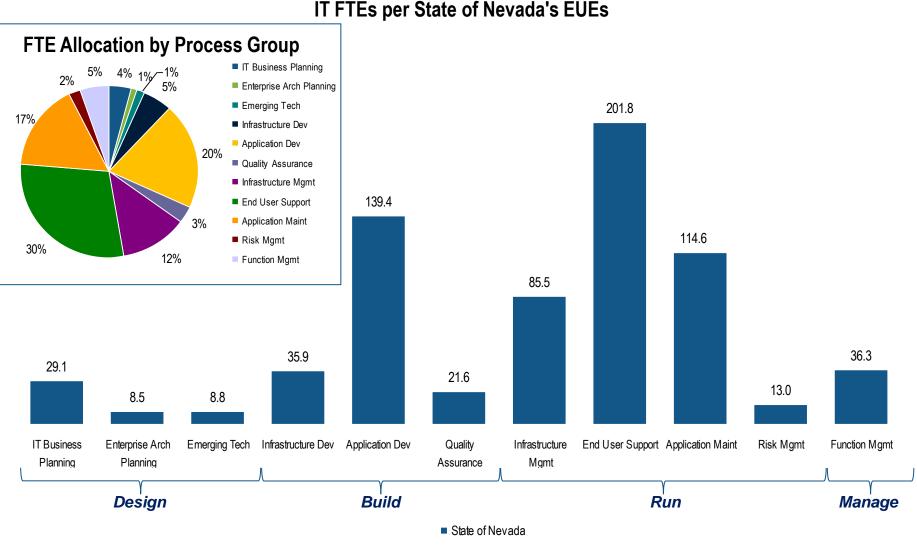
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36.3

46.3

3%

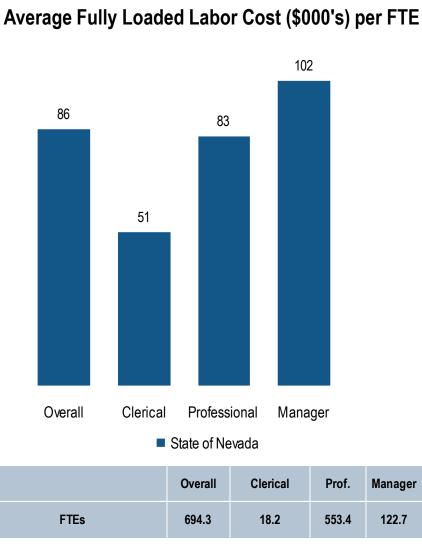
# Nevada has the highest number of FTEs in Application Development and **End User Support**



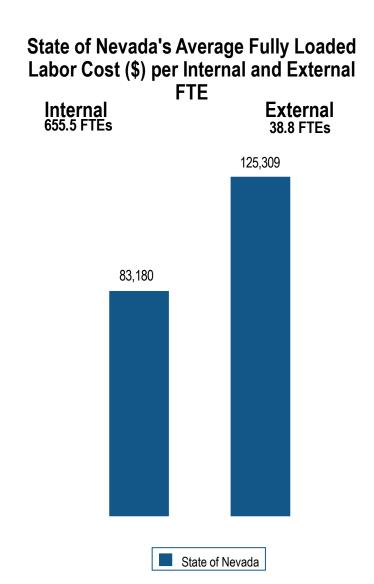
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# State of Nevada's average fully loaded labor costs

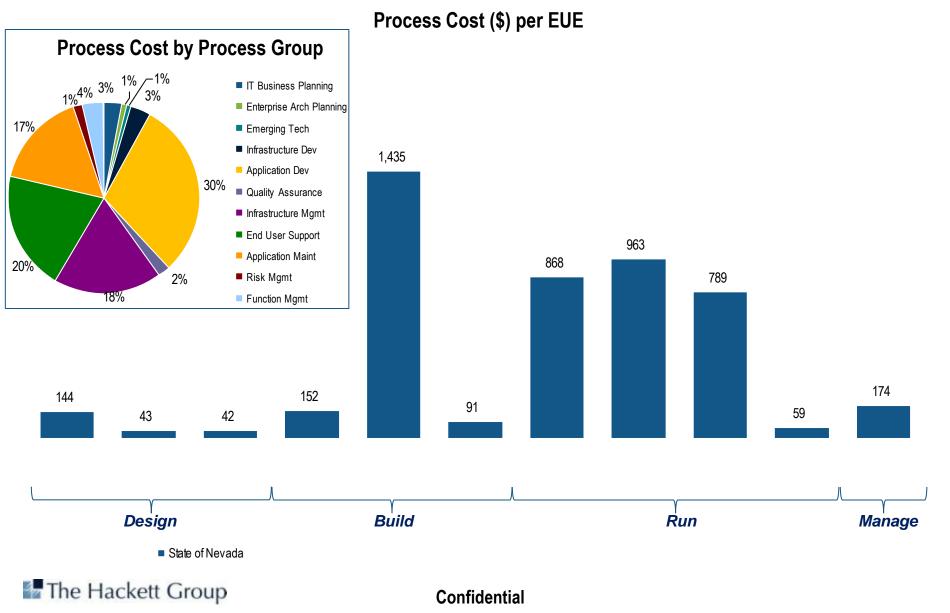


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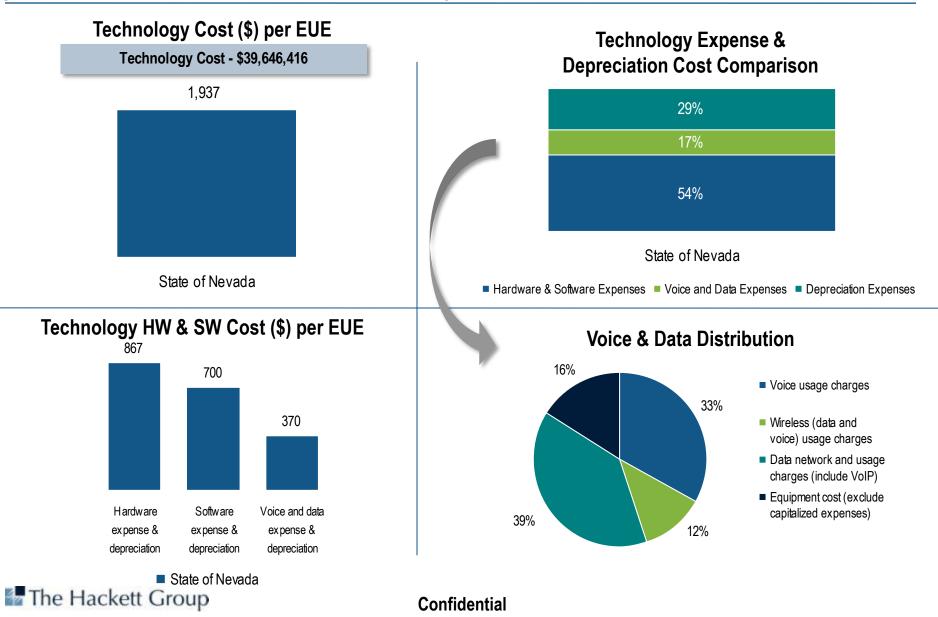


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# Nevada's process costs per EUE for Application Development and End User Support are comparably high, driven by the staffing levels

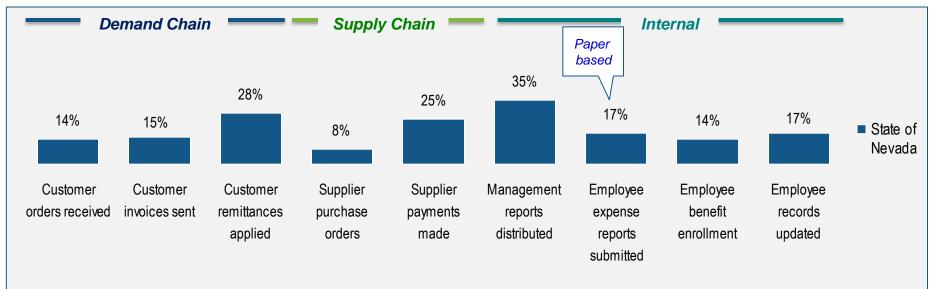


# Nevada's low technology costs are driven by lower funding in the 2<sup>nd</sup> year of the biennium and a "down" year in FY13



# Overall, Nevada is lagging in transaction automation and technology enablement to facilitate efficiency across the administrative functions

#### **Transactions Performed Electronically**



#### **Technology Enablement**

	State of Nevada
Business management reporting uses a data warehouse as its primary	28%
Indirect purchasing transactions utilize electronic catalogs	0%
Customers are covered in a CRM system	8%

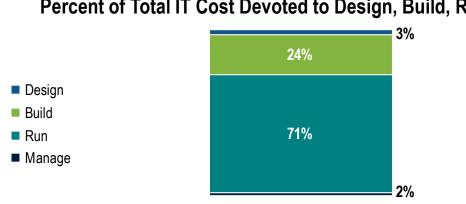
### Self-Service Enablement

	State of Nevada
Supplier invoice inquiry performed via self-service	0%
Customer online bill presentment	19%
Customer account review performed via self-service	23%
Employee requisitioning performed via self-service	8%
Budget input via self-service - Ops or cost center mgrs	18%

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# In FY 2013, Nevada spent a lower percentage of its total cost on Run processes as there was heavy application development work



#### Percent of Total IT Cost Devoted to Design, Build, Run, Manage

State of Nevada

Design	Build	Run	Manage
IT Business Planning	Infrastructure Development	Infrastructure Management	Function Management
Enterprise Architecture	Application		
Planning	Development & Implementation	End User Support	
Emerging Technologies	Quality Assurance	Application Maintenance	
		Risk Management	
		Technology Cost (HW, SW, V&D)	
		Other Cost	
		(Facilities, T&E, Training, Misc.)	

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# State of Nevada has significant spending in Application Development, but seems to be underinvested in technology cost

EUEs: 20,470

IT cost (in \$ million)	State of Nevada
IT Business Planning	2.9
Enterprise Architecture Planning	0.9
Emerging Technologies	0.9
Total DESIGN	4.7
Infrastructure Development	3.1
Application Development and Implementation	29.4
Quality Assurance	1.9
Total BUILD	34.3
Infrastructure Management	17.8
End User Support	19.7
Application Maintenance	16.1
Risk Management	1.2
Technology Cost	39.6
Other Cost	7.9
Total RUN	102.4
Function Management	3.6
Total MANAGE	3.6
Total IT Cost	144.9

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# Recommendations



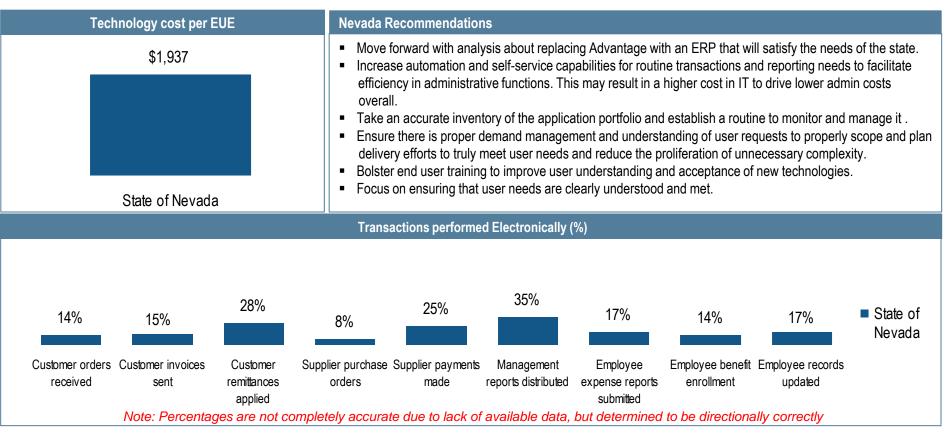


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## **1.** Enhance technology capabilities across the state

#### **Nevada Observations**

- Technology is antiquated, not user-friendly and not vendor supported.
- Nevada has low levels of automation and needs to increase IT leverage to improve process performance across the administrative areas.
- The total application count is underreported.
- End user training is insufficient to ensure proper understanding and use of technology.



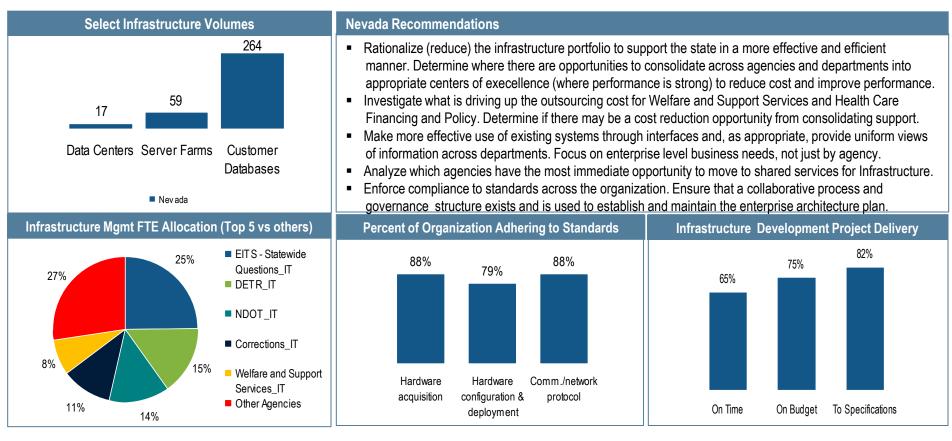
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## 2. Selectively increase consolidation and centralization of Infrastructure as applicable

#### **Nevada Observations**

- The data reflects a down year so IT costs are typically higher than reported.
- Nevada has elements of high infrastructure complexity and low disaster recovery documentation and testing.
- Currently only 30% of the technology portfolio is considered as managed in shared services. The majority of the shared service is for the Service Desk, but performance is sub-par.
- Standards definition and adherence is low for hardware acquisition, hardware configuration and communication / network protocols.
- Infrastructure Development project delivery performance needs improvement.



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## 3. Improve project and service delivery and increase business value focus

#### **Nevada Observations**

- Nevada's Application Development process cost is high. Nevada has a large number of projects in flight, but only about a third are supported by a PMO.
- Most projects don't have a formal business case or ROI tracking.
- Stakeholder comments indicate performance issues in demand management, project delivery, communication, and customer service / support.
- First contact resolution for the help desk service is on 52% and Nevada has a high number of requests.
- There are no internal SLAs or state-wide SLAs in place.

Project Delivery Tracking	State of Nevada	Nevada Recommendations		
% projects that have formal business case / cost-benefit analysis	42%	<ul> <li>Review the demand management process to ensure that IT addresses the requests that provide the most benefit to the state. Establish a system for managing internal user demand; accurately categorize requests, forecast time and effort involved in delivery, communicate timeline for addressing inquiries.</li> <li>Working with Finance, develop a process to increase the utilization of business cases and ROI reviews post project implementation.</li> <li>Ensure that business relationship manager roles are in place, clearly communicated and effective to drive business linkage and alignment. Increase communication and responsiveness to internal customers.</li> <li>Routinely conduct a detailed analysis of trouble tickets (e.g. sources, types, frequencies, resolution times, final problem</li> </ul>		
% ROI Not Tracked	64%			
% Meeting ROI	23%			
% Missing ROI	1%	<ul> <li>resolution) to assess root causes and develop a plan to reduce / prevent tickets.</li> <li>Identify/implement improvements (tools/training/process changes/incentives) to increase 1st contact resolution rate.</li> </ul>		
Help Desk Requests per Thousa	Help Desk Requests per Thousand EUEs % of First Contact Resolution Stakeholder Comments		Stakeholder Comments	
10,483		52%	"Proactively interact with customers. Follow the customers' lead, provide some leadership focused on customer needs, or get out of the way" "Adding staff in critical areas such as applications development and project management. We have had to make due with missed delivery deadlines, project delays, and work-arounds because they don't have the staff to address all of our critical projects in a timely manner."	
State of Nevada		State of Nevada	"Communicating better what they're doing, who to go to for what services, and improving project management."	

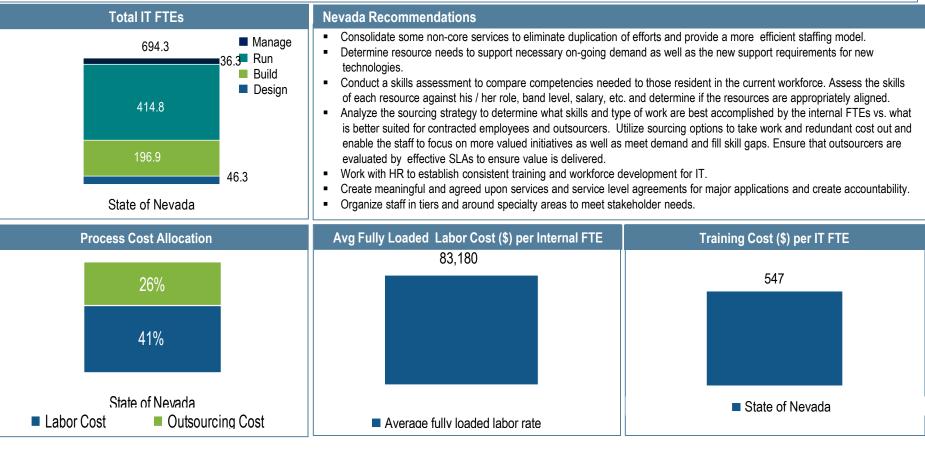
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## 4. Effectively manage talent

#### **Nevada Observations**

- Lack of enterprise resource leverage leads to the perception that IT is understaffed although Nevada has many IT FTEs. Nevada's service delivery model is very
  decentralized by agency.
- Nevada's outsourcing percentage is high at 26%.
- Average fully loaded labor cost for internal IT staff is lower than typical.
- Nevada spent less per IT FTE on training.



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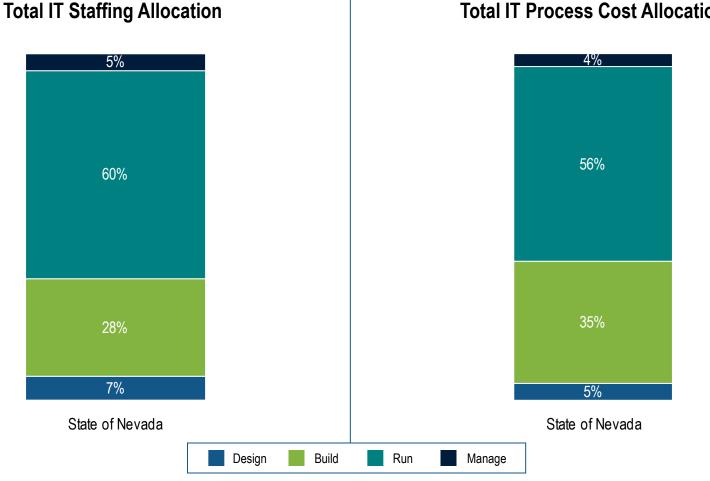
# **Performance Driver Analysis**

- FTEs and Costs
- Design
- Build
- Run
- Manage





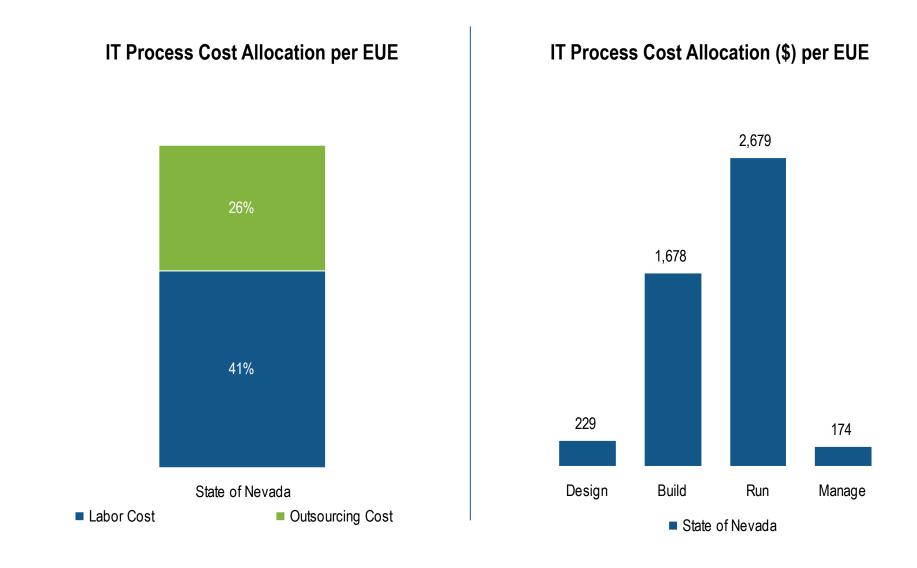
# State of Nevada staffing and process cost allocation



**Total IT Process Cost Allocation** 

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# Nevada has high build and run process costs per EUE



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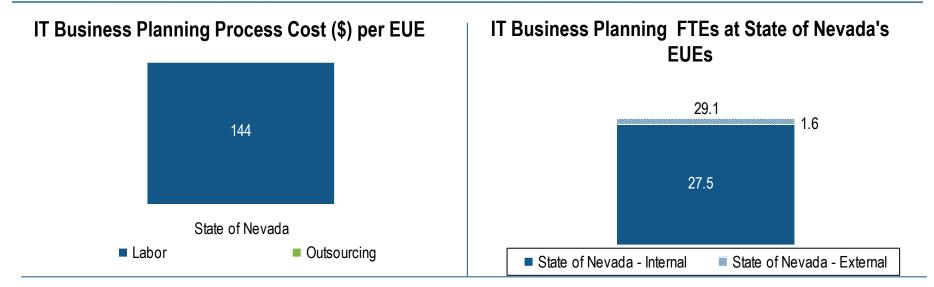
# **Performance Driver Analysis**

- FTEs and Costs
- Design
  - IT Business Planning
  - Enterprise Architecture Planning
  - Emerging Technologies
- Build
- Run
- Manage



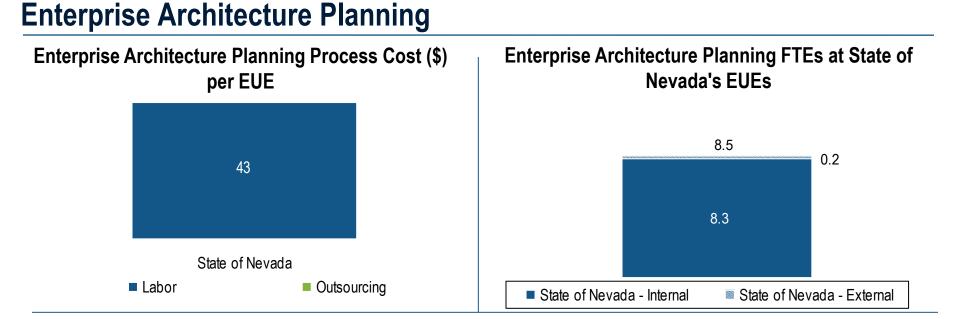
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# **IT Business Planning**



Practice Questions	State of Nevada
To what extent is there an IT communications plan defining stakeholders, messages, vehicles, frequency, accountabilities, etc.?	Ad hoc & loose
How effective is the communication of the IT strategy and vision?	Medium
Are there processes and centralized accountabilities for IT communications and performance reporting?	Ad hoc & loose
To what extent does an IT performance scorecard exist?	Does not exist
To what degree does the scorecard provide a holistic view of IT performance?	Low

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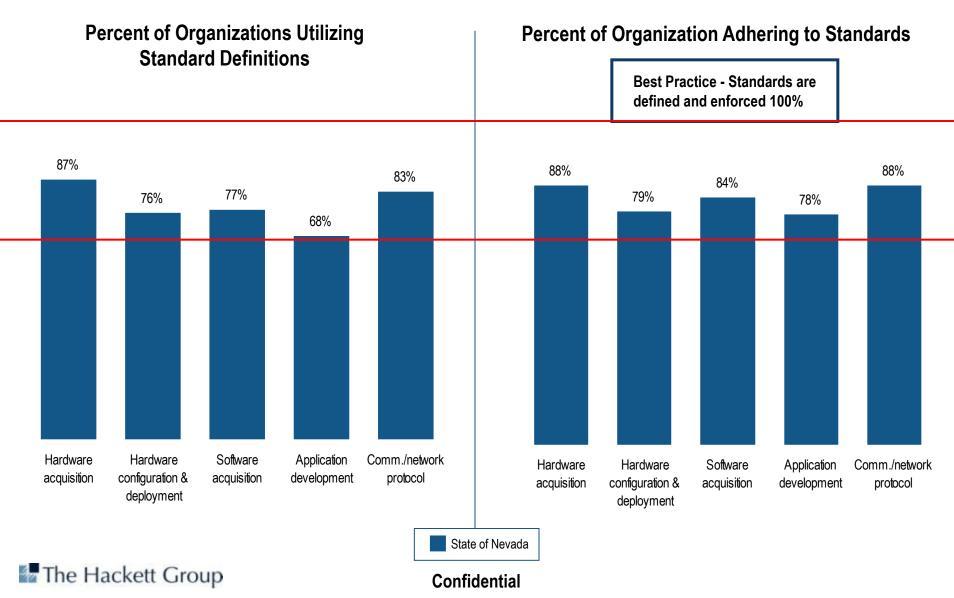


Practice Questions	State of Nevada
To what extent is the technology portfolio actively managed?	Occasionally
Are architecture goals and metrics defined and monitored?	Occasionally, Often
To what extent is there a process in place for managing IT standards?	As needed
What percent of projects are compliant with architectural standards?	82%

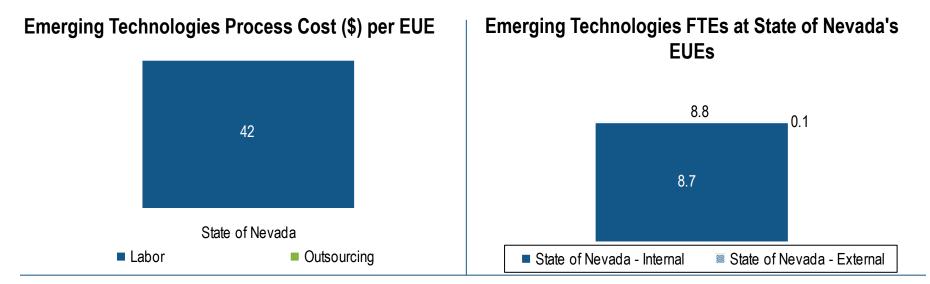
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# Nevada has lower levels of standards utilization and adherence across the board



# **Emerging Technologies**



Practice Questions	State of Nevada
To what degree is research and knowledge regarding emerging technologies shared throughout the enterprise?	Occasionally
How often is education provided for business executives on emerging technologies and potential business applications?	Occasionally

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## **Performance Driver Analysis**

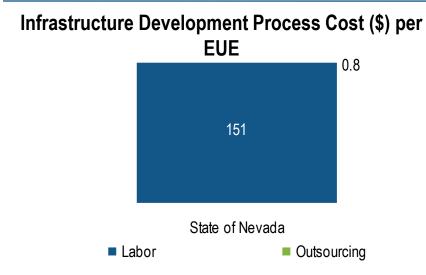
- FTEs and Costs
- Design
- Build
  - Infrastructure Development
  - Application Development & Implementation
  - Quality Assurance
- Run
- Manage



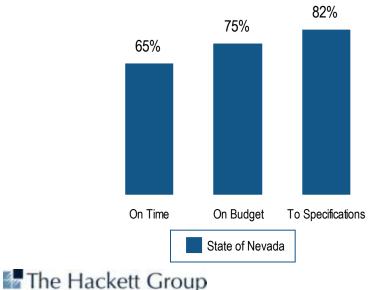
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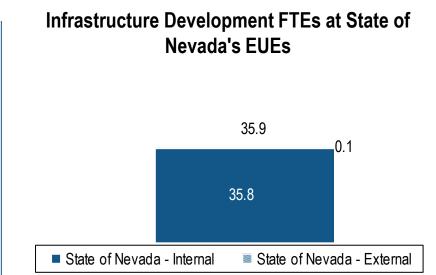
# Nevada's IT organizations were engaged in a lot of large projects during FY2013, but without sufficient PMO support, delivery statistics suffered

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### Infrastructure Project Delivery Success

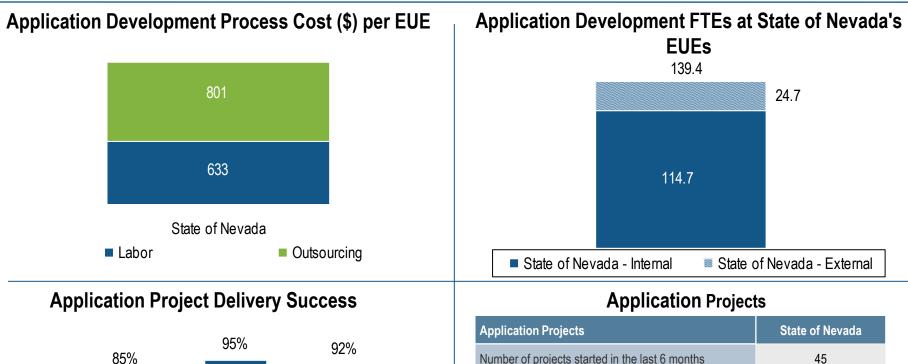


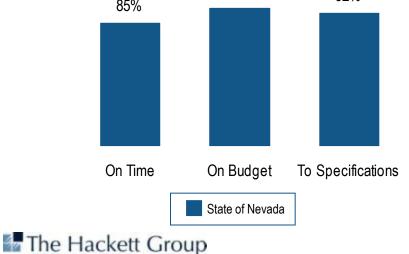


#### Infrastructure Projects (large projects)

Infrastructure Projects	State of Nevada
Number of projects started in the last 6 months	36
Number of projects started in the last 12 months (include projects started in the last 6 months)	87
Percent under the control of the PMO	12%
Percent of IT project activity type - Improving or expanding infrastructure	24%

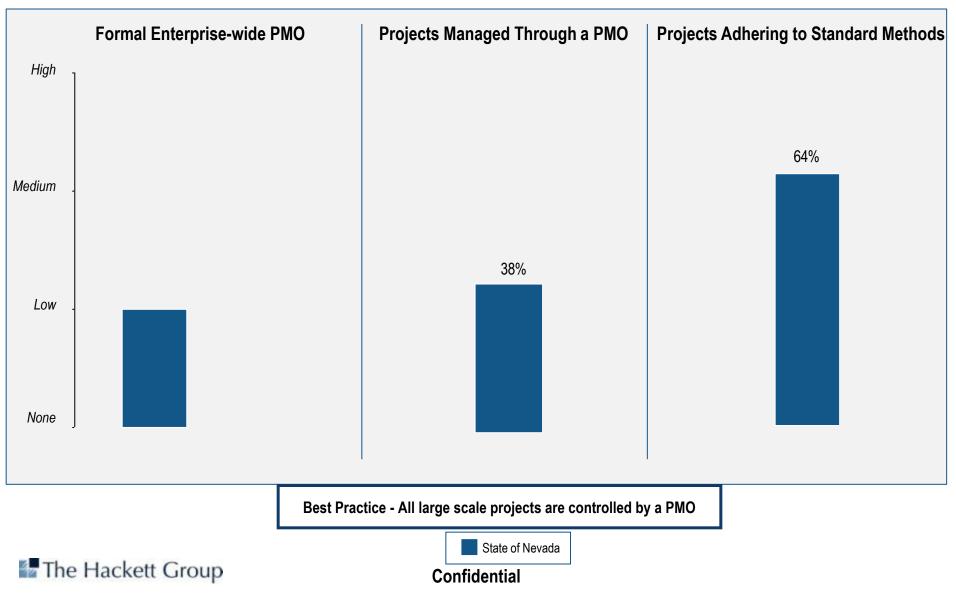
# Nevada's project delivery for Application Development & Implementation projects is likely over estimated





Application Projects	State of Nevada
Number of projects started in the last 6 months	45
Number of projects started in the last 12 months (include projects started in the last 6 months)	77
Percent under the control of the PMO	36%
Percent of IT project activity type - Developing or implementing new in-house applications	20%
Percent of IT project activity type - Implementing (includes configuration) packaged software	7%

## Nevada's PMO utilization and adherence to standard methods



# **Project delivery practices**

Project Delivery Practice Questions	State of Nevada
When projects or programs are reviewed for benefit realization, which organization is accountable for executing?	IT, Business
To what degree is a centralized project repository is established, utilized and maintained to capture and access all project related deliverables and work products throughout the project life cycle?	Medium
To what extent are common project naming conventions established and utilized for all project-related documents, work products, files, directories, and code structures?	Medium
What best describes your approach to defining business requirements?	Technology organization develops and documents requirements from interviews, workshops etc involving the business organization
How involved are ALL stakeholders in the testing process?	Medium



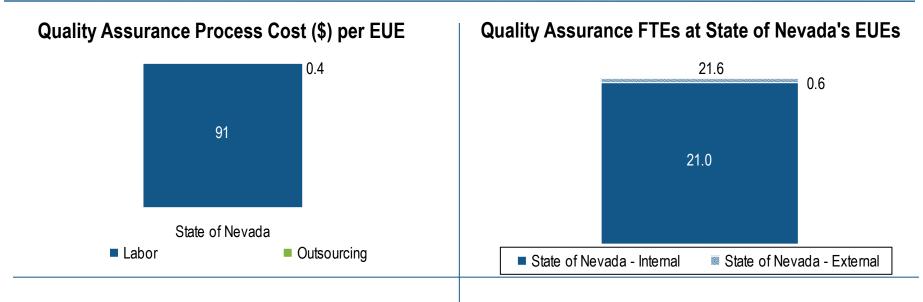
#### State of Nevada Project Related Information

Business Case and Benefit Realization	State of Nevada
What percent of projects deliver anticipated benefits?	83%
What percent of development projects have formal business cases/cost-benefit analyses?	42%
Upon completion, are projects/ programs reviewed to validate the original business case (both costs and benefits) and lessons learned fed back to improve methodologies and tools?	Low

Percentage allocation relative to ROI for the completed projects	State of Nevada
Meeting ROI	23%
Missing ROI	1%
ROI Not Tracked	64%

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# **Quality Assurance**



Practice Questions	State of Nevada
Is a QA organization established to manage and monitor quality standards, procedures and integrated testing for all systems changes eventually affecting the production environment?	Low
To what extent is there a formal environment established to support the Change Management process?	Ad hoc & loose
To what degree does everyone follow the change control process?	Medium

Practice Questions	State of Nevada
To what extent are changes managed and tracked within a formal Change Management system?	Medium
How often do change review meetings occur?	Ad hoc
To what extent are changes opened/approved/closed online?	Medium

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## **Performance Driver Analysis**

- FTEs and Costs
- Design
- Build

## Run

- Infrastructure Management
- End User Support
- Application Maintenance
- Risk Management
- Technology
- Other

## Manage





## **Infrastructure Management practices**

Technology Infrastructure Practice Questions	State of Nevada
To what degree is there a single point of accountability (process owner) for security management?	Medium
To what degree is role based security implemented throughout the enterprise?	None
How many security breaches were detected for any unauthorized/improper access during the benchmark period?	Zero instances
What impact did security breaches have on the daily operations?	None
To what extent is your Disaster Recovery plan formally documented?	Low
When was the last time the Disaster Recovery plan was tested?	Greater than 24 months
How successful was the most recent test of the Disaster Recovery plan?	Several problems but testing was completed
Do you have a backup site?	Yes

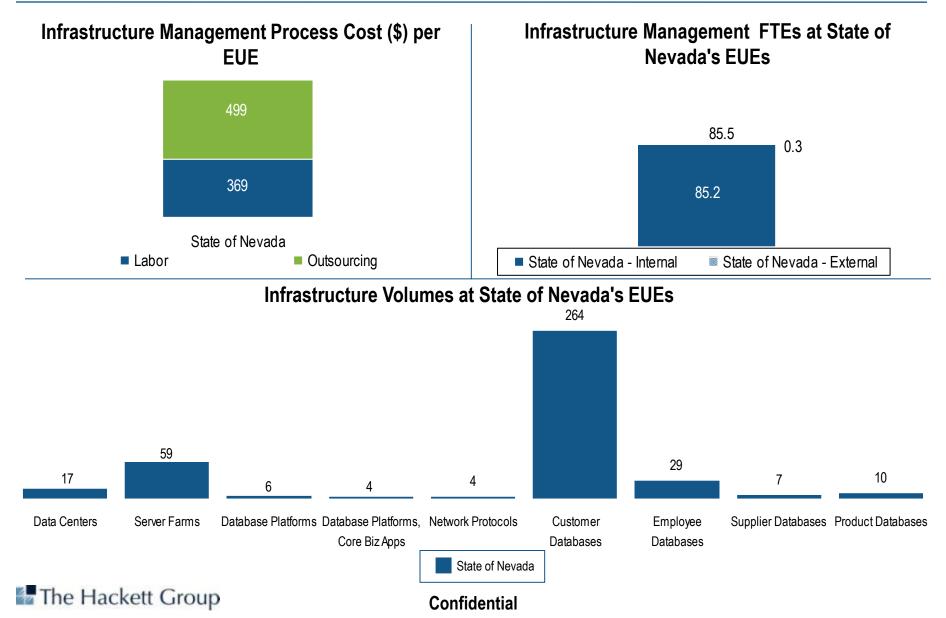
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## **IT Services Management Methodology utilization**

Level of Implementation	State of Nevada
Service Level Management	Yes
Capacity Management	No
IT Service Continuity Management	Yes
Availability Management	No
Financial Management	No
Service Desk	No
Problem Management	No
Configuration Management	No
Change Management	No
Release Management	No
Security Management	No
IT and Telecoms Infrastructure Management	Yes
Application Management	Yes
Business Continuity Management	Yes
Surviving change	No
Business transformation	No
Partnership and outsourcing	No

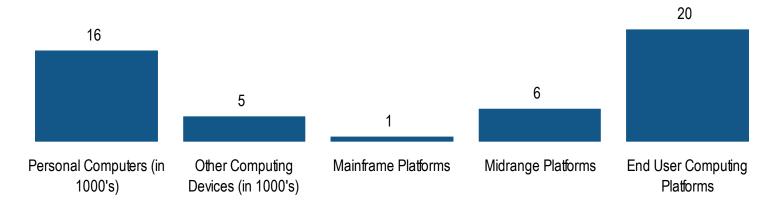
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# Similar to other states, Nevada's Infrastructure Management process is impacted by complexity as a result of the decentralized agency structure

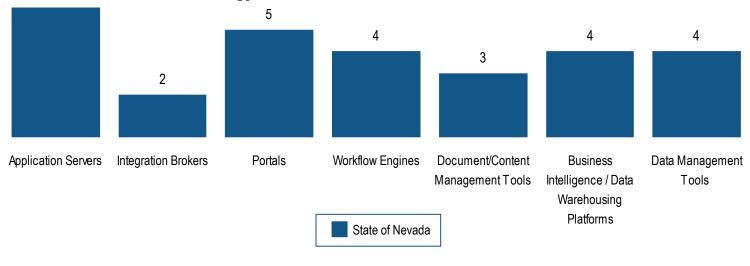


## Other technology platform and hardware device volumes

Hardware Devices and Platforms at State of Nevada's EUEs



### Technology Platforms at State of Nevada's EUEs

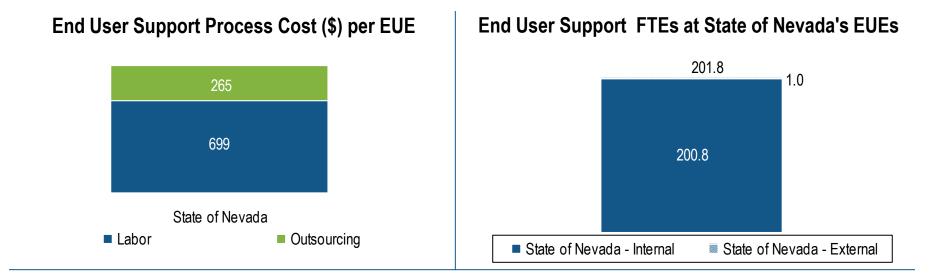


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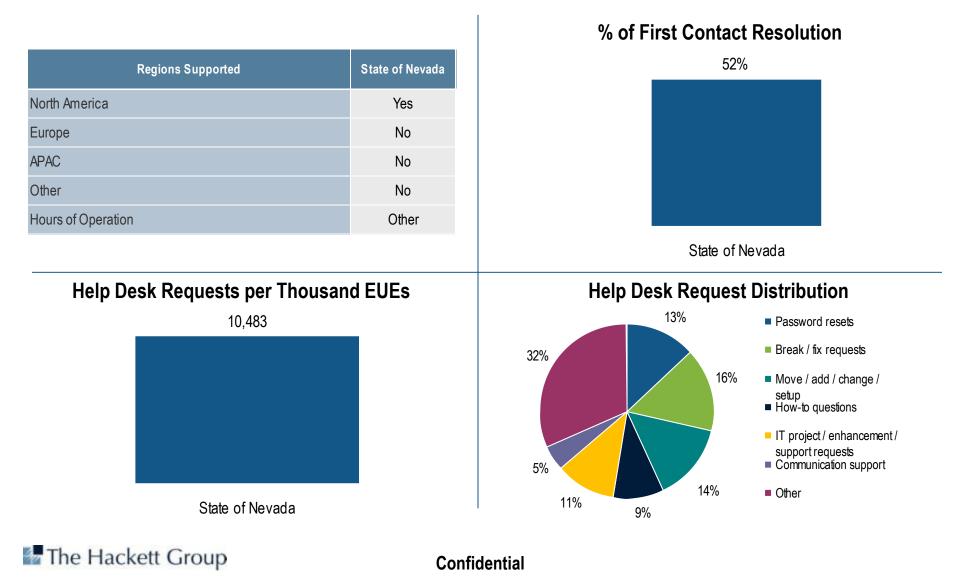
# Nevada's End User Support process costs are high as a result of fragmentation



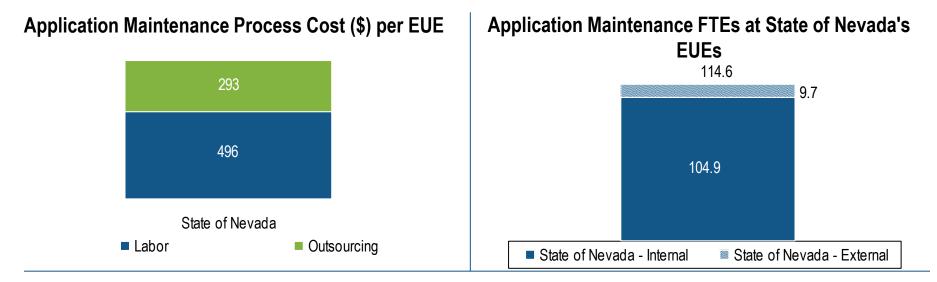
	State of Nevada
How is your help desk organized	De-centralized for the State
What is the help desk's primary objective	First contact
Target % for first call resolution	54%

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# Nevada supports a high volume of help desk requests with low first contact resolution rates



## **Application Maintenance and End User training**



#### **End User Training**

	State of Nevada
End user training requirements	Ad hoc and loose
How is training compliance monitored	Not monitored
Extent a formal set of end user training offerings exists	No formal set exists, Limited
# of training hours required annually per employee	1.50
How often are training requirements updated	As needed
Who determines/defines training requirements	IT partnering with the other functional areas
Degree training requirements satisfied internally	Medium
Extent training is being supported through self-service	Medium
Extent training is supported with commercially developed products versus in-house developed	Low
0	

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## **Application volumes**

#### Applications seem understated

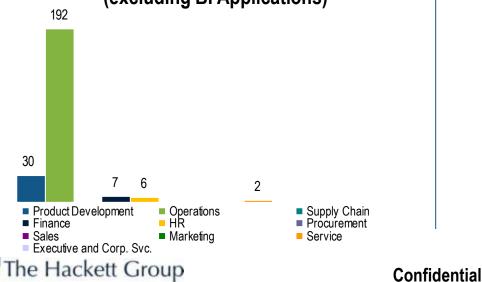


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State of Nevada

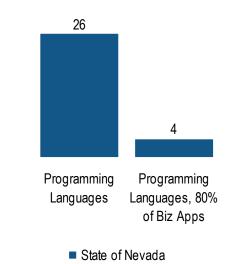
#### Application Breakdown by Function (excluding BI Applications)



### Applications Breakdown by Type

	State of Nevada
Primary business application suite vendor	Other
Primary business application suite modules	24
Secondary business application vendor	Not Applicable
Secondary business application modules	6
Productivity applications	22
Collaboration tools	4
Domain specific or Best of breed applications	23
Custom applications	184
BI applications	16
Total	279

## **Programming Languages**

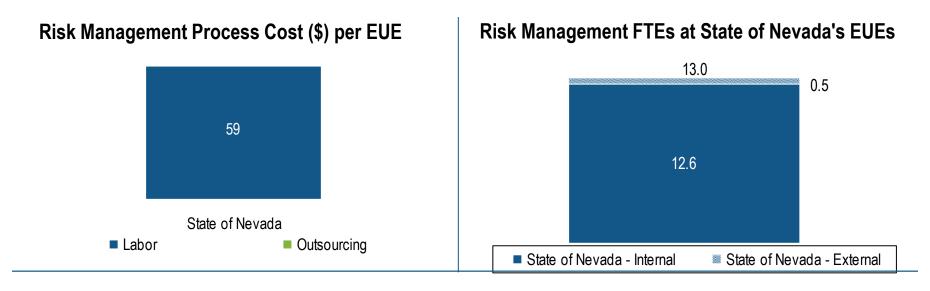


## **Application Maintenance practices**

Application Management Practice Questions	State of Nevada
Which organization maintains ownership of tier 1 business application support?	Business
To what degree is a single centralized system used to track requests, provide status to business and IT staff, and capture data on the demand management process?	Low
To what extent are estimating tools and models used to understand, define and validate assumptions for in-coming requests?	Low
Do you have a global single license agreement for your primary business application suite? <i>Nevada owns Advantage – no maintenance agreement with AMS vendor</i>	No
What are the characteristics of your primary ERP suite - Number of versions	2
What is the maturity of your primary business application?	Single ERP / Multiple instances
Are you currently on vendor maintenance or support for your primary business application suite?	No
To what degree does your development organization use a formal application development methodology and toolset?	Medium



## **Risk Management**



Practice Questions	State of Nevada
To what degree is there a single point of accountability (process owner) for audit & compliance management?	Medium
What percentage of the audits fail?	Low

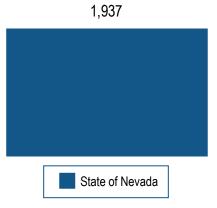
Practice Questions	State of Nevada
Who is responsible for performing audit reviews?	External Audit
With what frequency does Audit perform a periodic review for security and information access risk?	Annually
Do you have a Chief Security Officer ? Nevada has ISO	Yes

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## State of Nevada's IT technology investment

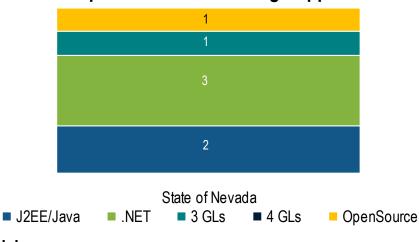
## Technology Cost (\$) per EUE



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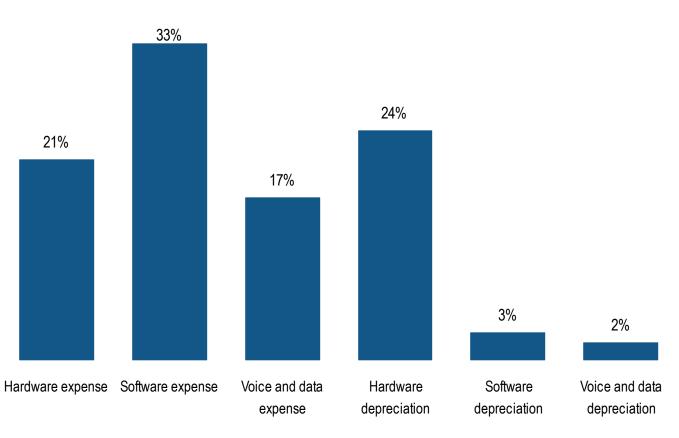
	State of Nevada
Primary database platform	Oracle
% of business applications using primary database	50%
# databases supporting core business applications	4

**Development Platforms Being Supported** 



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## Technology cost allocation breakdown

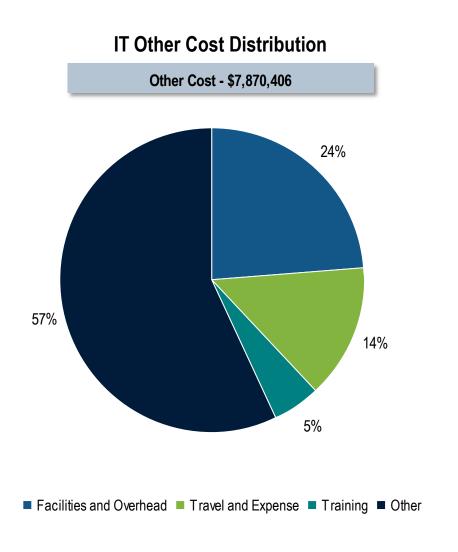


Technology Cost Allocation by Expense Type

State of Nevada

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## **State of Nevada's Other Costs**



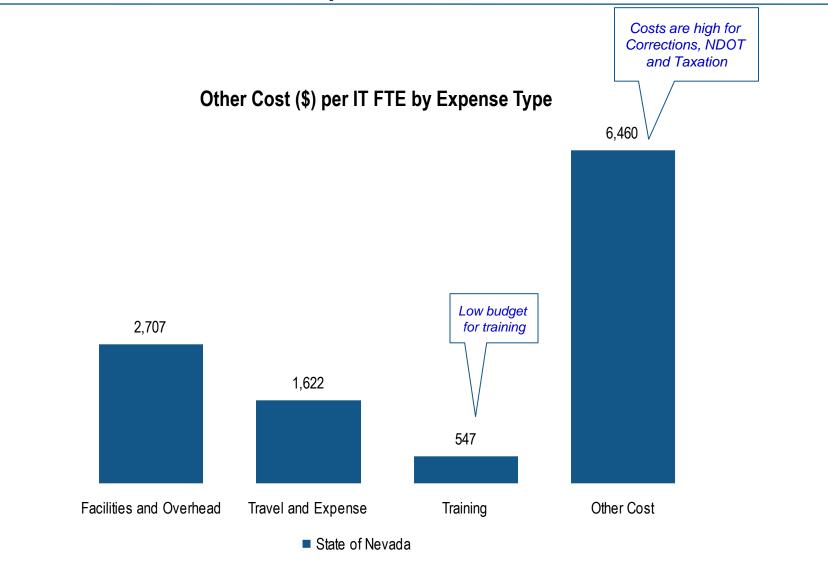
Other Cost (\$) per EUE



State of Nevada

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## State of Nevada's other cost components



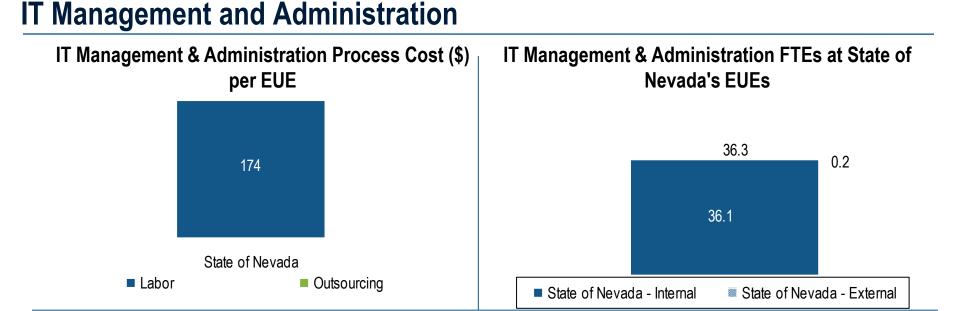
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## **Performance Driver Analysis**

- FTEs and Costs
- Design
- Build
- Run
- Manage
  - IT Management & Administration





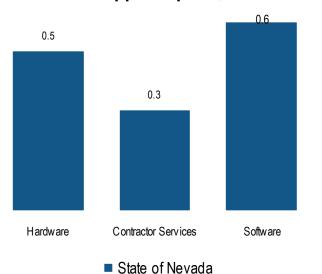


Practice Questions	State of Nevada
To what degree does an IT strategy exist?	Ad hoc and loose
How often is the IT Strategy Updated?	Upon request or every 2 yrs
How often are IT executives engaged in business strategy discussions and decisions?	Often
To what degree are the IT planning and budgeting processes aligned?	High
To whom does the CIO report?	Reports to Governor, Accountable to CFO
Is your CIO a member of the company's Senior Executive Committee?	Yes
What percent of the total IT budget is controlled by the most senior IT executive?	19%

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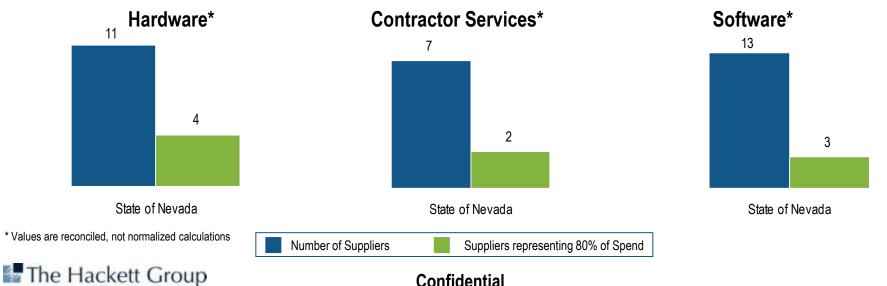
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# Nevada has reported very few suppliers



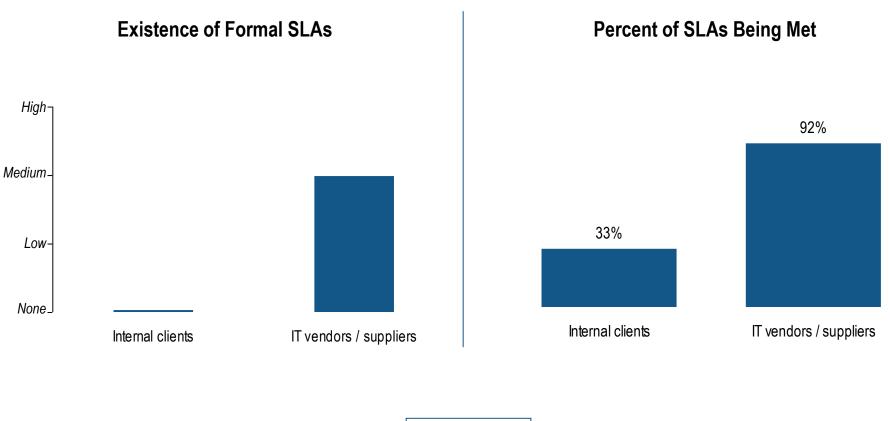
#### Number of Suppliers per 1,000 EUEs

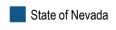
	State of Nevada
Degree of adherence to the preferred vendor list	Often
What percent of the IT spend/purchase activities is influenced/managed using a formal procurement organization	90%
To what extent are cost reductions and the utilization of gain sharing agreements used with suppliers	Never
Included in physical asset database – End user devices	95%
Included in physical asset database - Infrastructure devices	90%



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# Service Level Agreements (SLAs) for Nevada are established by agency, there are no state-wide SLAs





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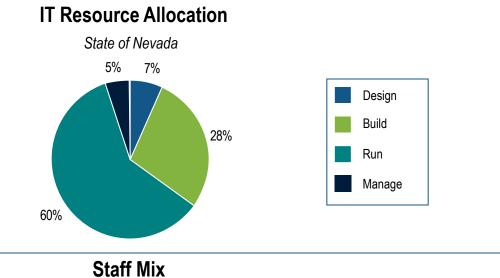
# **People / Organization**

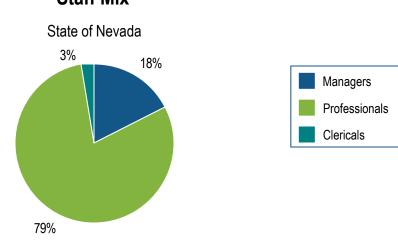




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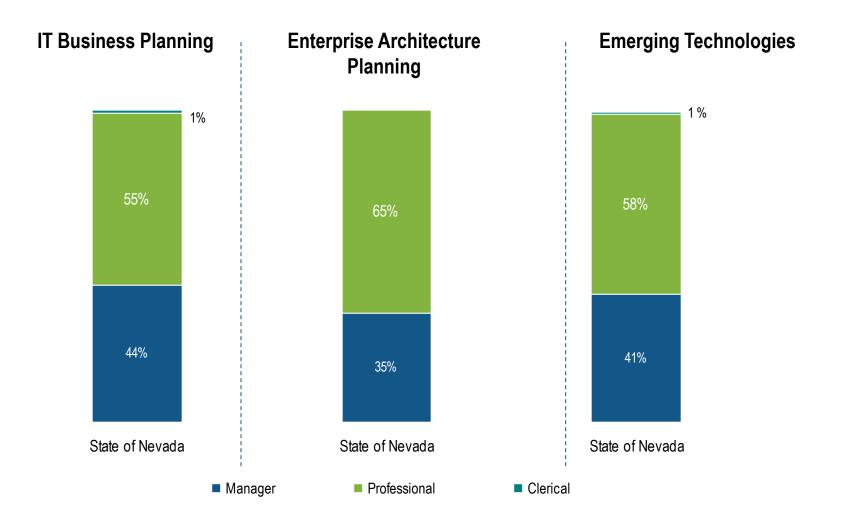
## **Resource allocation and staff mix**





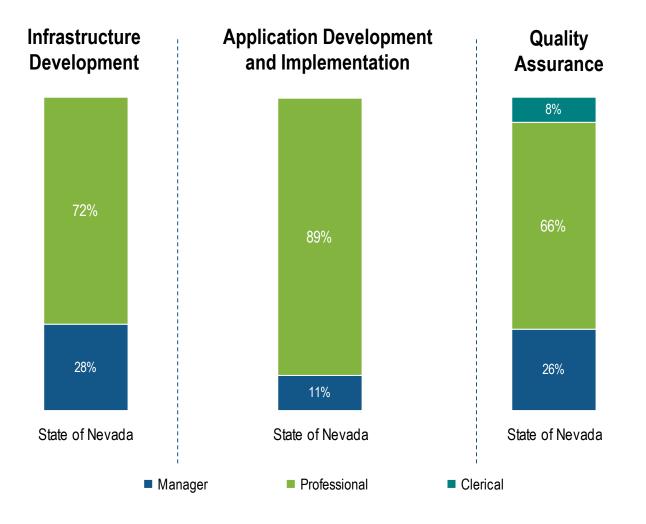
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## Staff mix per process - Design



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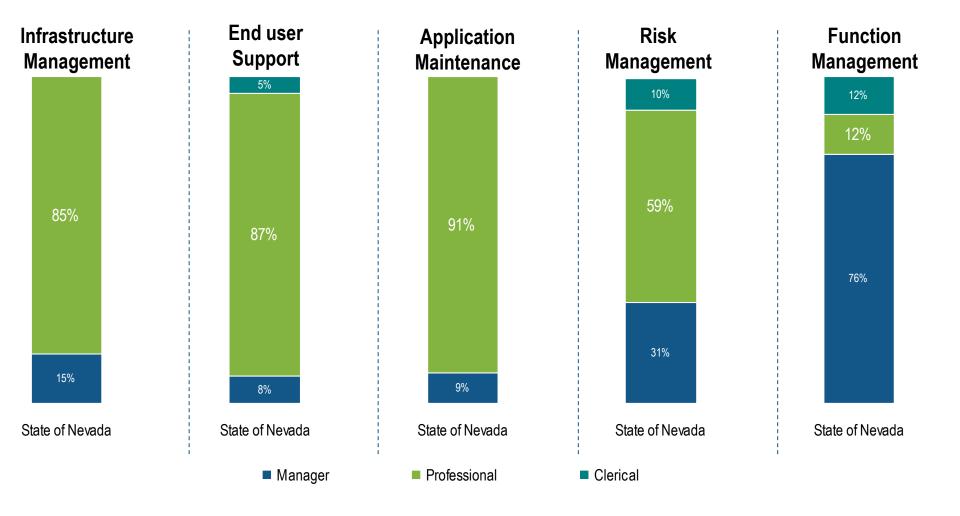
## Staff mix per process - Build



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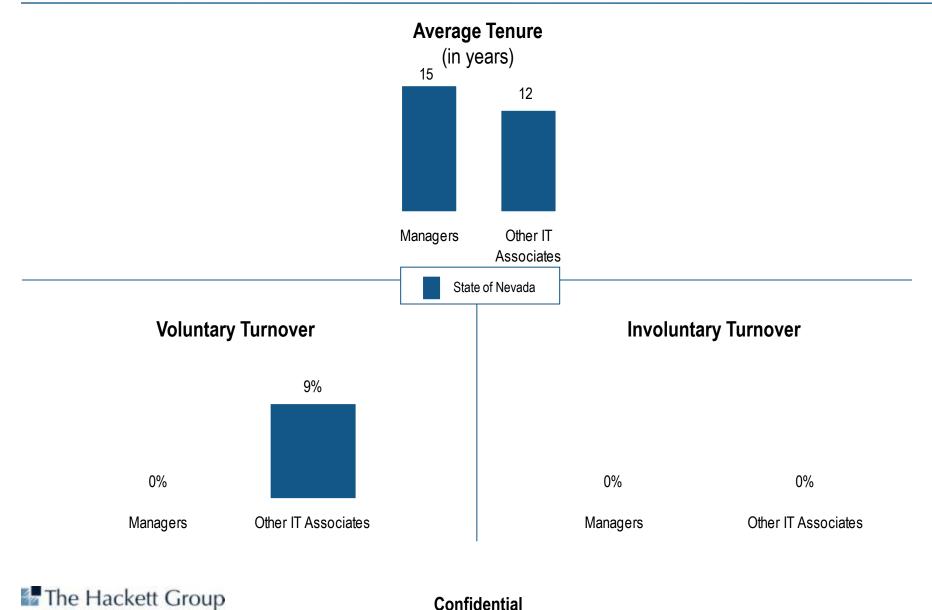
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# **Staff mix per process – Run and Manage**



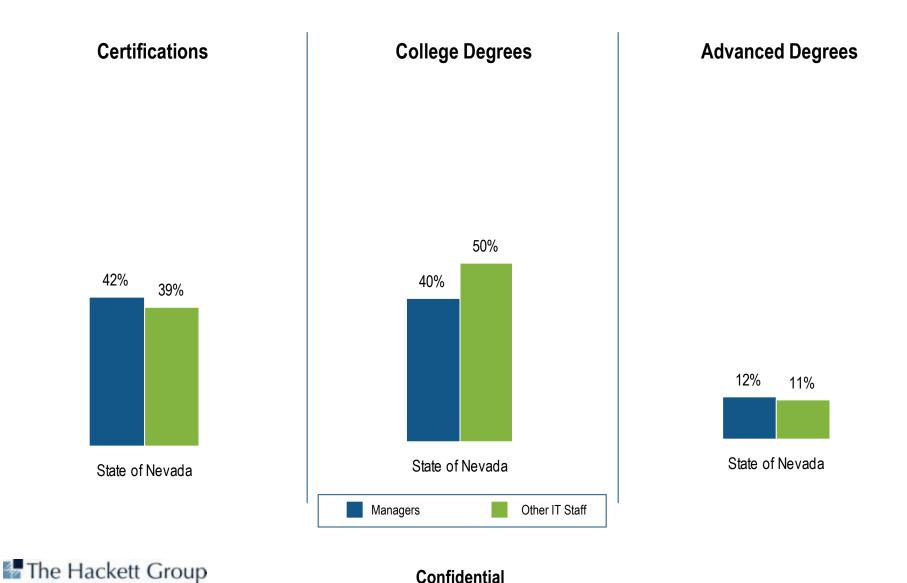
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## IT staff experience and turnover



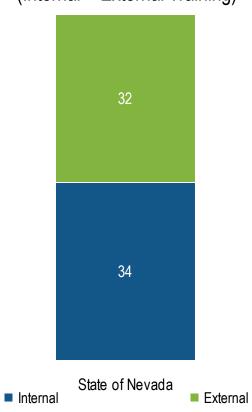
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## **Education of the IT staff**



# IT training hours

## Annual Training Hours per IT FTE (Internal + External Training)



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# IT personnel management practice questions

IT Personnel Management Practice Questions	State of Nevada
To what extent does a formal training program exist for the IT staff - Management staff	None
To what extent does a formal training program exist for the IT staff - Professional staff	None
What percent of IT managers and professionals are routinely rotated through business operations positions as part of a formal career development program?	0%

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# Appendix

Stakeholder Survey Results





# **Stakeholder Survey Results**

- Participants' Demographics
- Baseline and Overall Findings
- Additional Stakeholder Comments



**Participants' Demographics** 

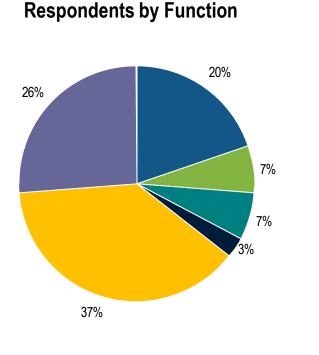




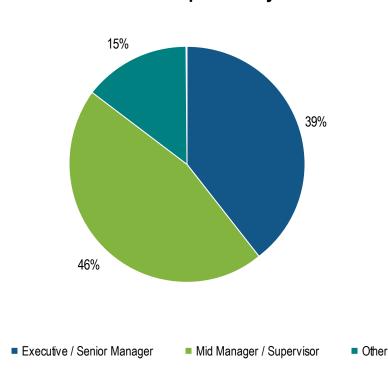
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# **Survey response demographics**

- The Stakeholder Survey was sent to 152 stakeholders
- 76 responses were received, representing a response rate of 50%



■ Finance ■ HR ■ IT ■ Procurement ■ General Government ■ Program Operations



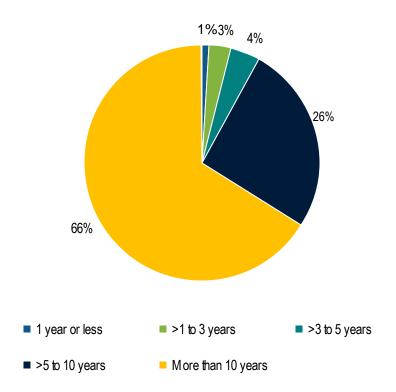
#### Level of Responsibility

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# Survey response demographics (con't.)

### **Respondents by Tenure with State**



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## **Baseline and Overall Findings**

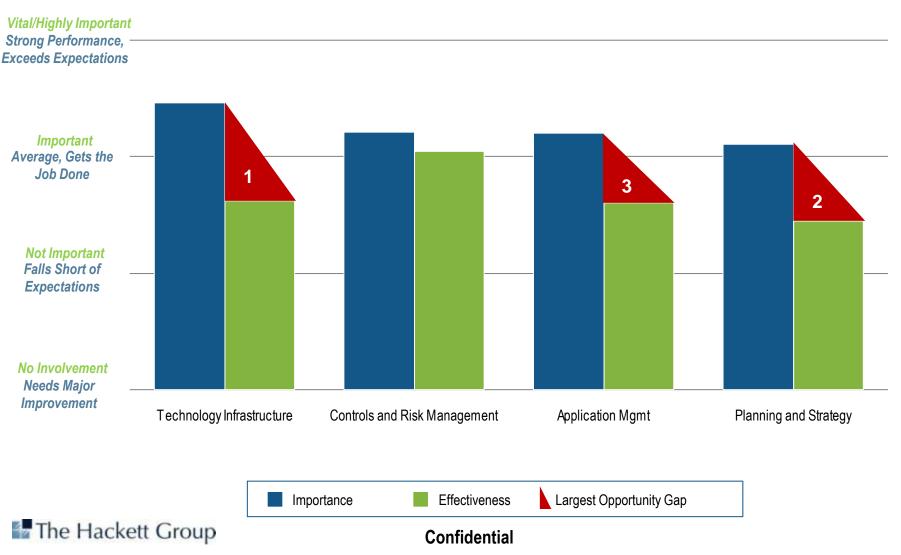




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# Stakeholders perceive the largest performance opportunity gap in Technology Infrastructure

**Importance & Effectiveness by Service Offering** 



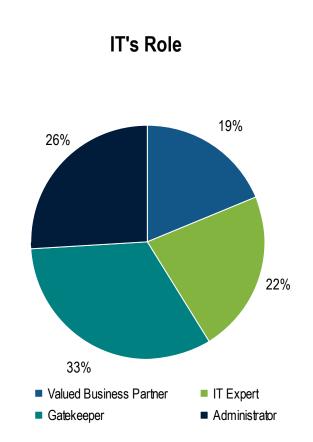
# **Business strategy enablement – IT's role**

"Upper management needs to support IT staff 100% in the daily function / operation and emergency repairs to IT systems"

"Serve the people that pay for their services in a timely manner. It takes too long to get simple dayto-day items fulfilled"

"Provide a product that is more user friendly and obtain a system that can be better used for statistical data"

"Listen to the customers about their needs to improve program efficiency. Offer solutions and/or options to meet those needs. Understand the regulations, policies and procedures associated with the program (internal customer). Provide adequate resources to meet the needs of the customer"



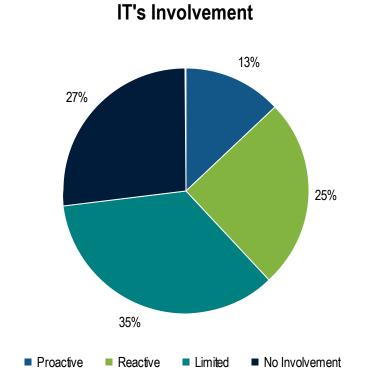
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"The IT organization should make it a priority to know and understand each division's work program and strategic needs"

"Become proactive in improving the IT environment for DPS; don't wait for your customers to bring forth the improvement ideas"

"Involve more stakeholders in the decision-making process. While the stakeholders may not have all of the technical expertise of the IT staff, they may be able to offer suggestions and/or critiques of IT's proposed solution"

"Proactively interact with customers. Follow the customers' lead, provide some leadership focused on customer needs, or get out of the way"

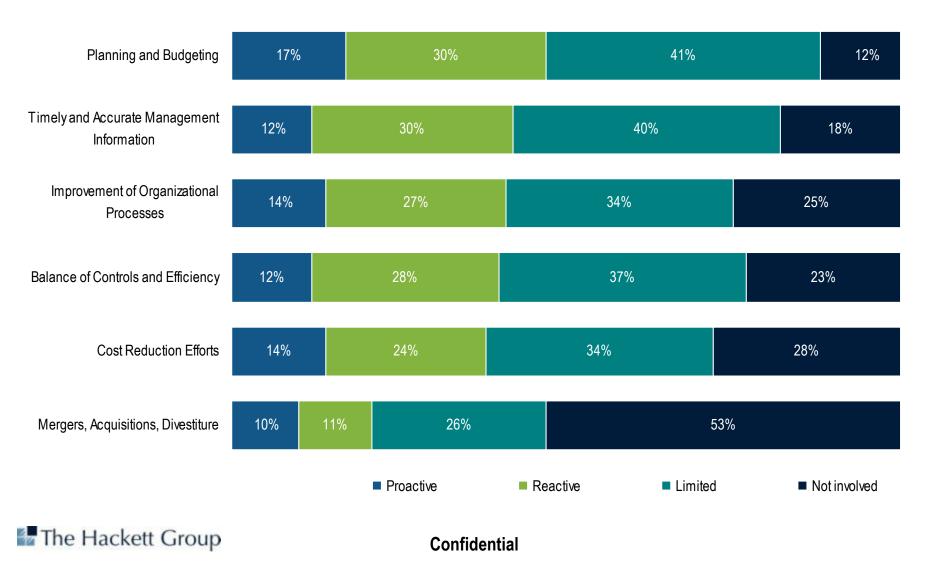


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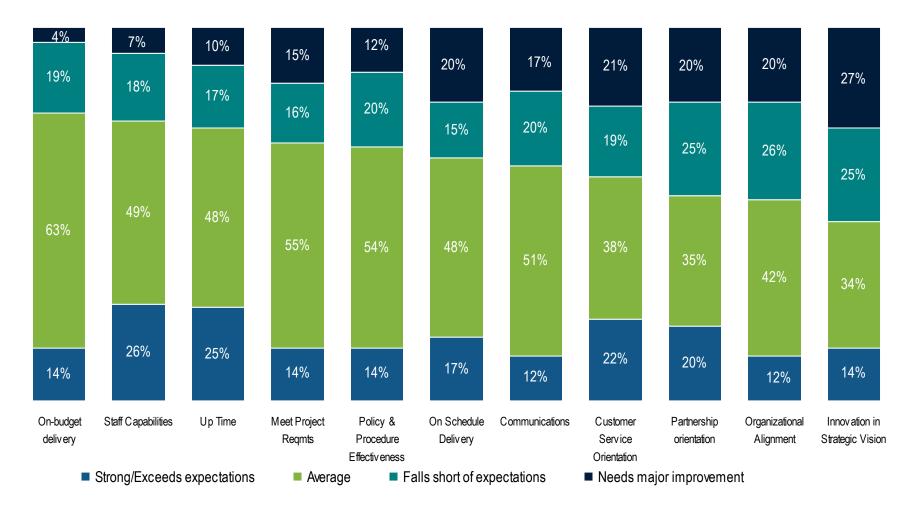
# IT involvement in the business

## Nature of IT's Involvement in Key Activities



# **Performance of Overall IT Organization**

## Performance of the IT Organization

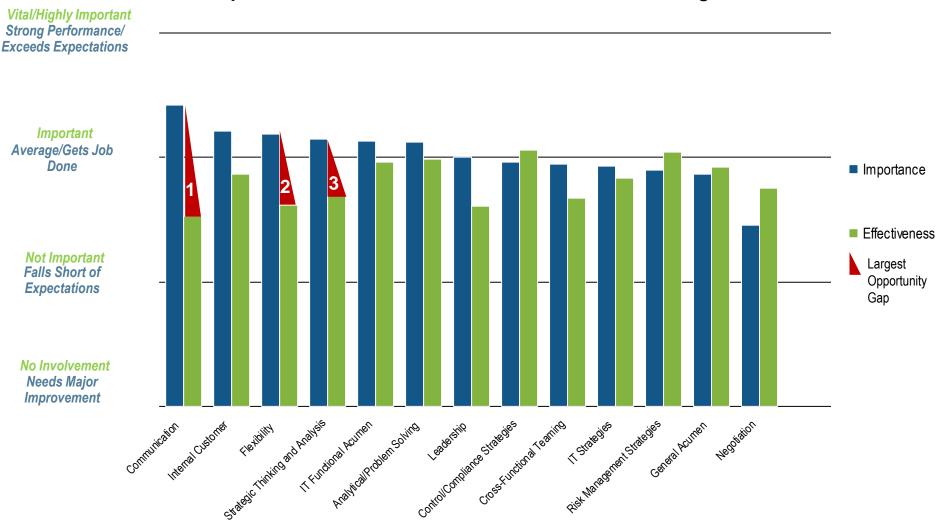


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# **Skills - Importance & effectiveness**

## Importance & Effectiveness of IT Skills and Knowledge





## **Additional Stakeholder Comments**





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# **Stakeholder suggestions/comments**

## To add value, Stakeholders believe IT should start:

- Adding staff in critical areas such as applications development and project management. We have had to make due with missed delivery deadlines, project delays, and work-arounds because they don't have the staff to address all of our critical projects in a timely manner.
- Providing better estimates of time for implementation of new programs.
- Working on more user friendly systems.
- Responding to requests vs ignoring them. Communicating with staff and managers vs no interaction. Being proactive rather than reactive. Understanding the needs of the customer vs talking about the needs of IT.
- Programming that interfaces with local governments; applications knowledge and training for staff; strategic planning to help organization keep up; following through with budget
- Providing better customer service, more forward thinking, better planning and better leadership.
- Staying up on technology and utilizing current software and infrastructure technology.
- Communicating better what they're doing, who to go to for what services, and improving project management.
- Building their capacity to have more in house developers for new projects and enhancements. The state would be well served with much more custom apps, and there is little to no emphasis on cultivating and growing their own coding talent.
- Demonstrating that they are capable of delivering timely and effective enterprise solutions and offer these services at a competitive rate.



# Stakeholder suggestions/comments

## To increase value, Stakeholders believe IT should stop:

- Ignoring requests. Stating the importance of what IT is doing and trying to explain what IT is doing vs just producing the product.
- Relying wholly on web based work tickets.
- Isolating themselves from the customers they serve resulting in lack of communication / Spending more time telling customers what they cant do, instead of what they can do.
- Using antiquated rate models for their services or at least allow agencies to shop around for a more competitive product. Stop making enterprise wide decisions without input from the businesses you are supposed to be supporting.
- Operating isolated single agency developments that do not coordinate with the whole. Deny new requests to continue status quo.
- Basing the footprint and office space for each and every state building on providing an office workspace and desktop computer for the employee; instead think "mobile workforce", and move to apps and cloud systems. The state could save millions of dollars per year by allowing telecommuting and enabling specific personnel to work from home, car or from the field as their jobs allow.



# Stakeholder suggestions/comments

## **Additional Comments from Stakeholders**

- They are good people who want to do a good job. Unfortunately they are the victims of the state budget crisis just like the rest of the agencies. The State gets what it pays for in terms of technical skill sets and equipment.
- You need to utilize your resources at the division level to assist you with day-to-day tickets, like installing programs, setting up a new printer, giving people access to folders and calendars. Also you need to put all of the databases that are highly restrictive in their own server space made for only those users that use it and put everyone else in a less restrictive server set-up so we can operate like a normal business.
- The appearance is that either IT staff are either undertrained, or the department is understaffed, or IT is not interested in working with the customer. Basic communication (ie, here is what we can do and here is when it can be done by) would be helpful vs no communication whatsoever. There does not seem to be any management structure, leadership or direction in the IT Department. While individual IT staff are friendly and try to be helpful, the system is so fragmented or staff do not have the basic knowledge of the IT structure to actually provide assistance.
- Ratings reflect Department IT services, not services provided by EITS. Department IT services are functioning smoothly. We are opposed to plans by EITS to centralize IT staff/services since it would most likely increase costs, reduce services and be extremely disruptive.
- You are a customer service organization. If the customers are not happy, they will find ways to go elsewhere.



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