Deloitte.





University of Tennessee System

System Effectiveness Study | Final Deliverable – Executive Summary June 5, 2019

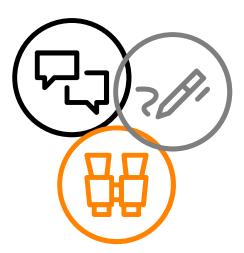
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Executive Summary

Introduction





- Deloitte facilitated a series of workshops for five functional areas across all campuses and units to discuss current state challenges, document roles and responsibilities, and develop the primary output of this engagement – future state recommendations to enhance efficiency and effectiveness.
- To support the development of future state recommendations, Deloitte provided case studies and functional leading practices to supplement UT's current state assessments of each functional area.
- The recommendations outlined in this report fall into two categories:
 - 1) Short-, medium-, and long-term opportunities identified and endorsed by the working groups
 - Deloitte-observed best practices in Higher Education and other industries for further consideration

Overview of the Initiative

The UT System embarked on this initiative to identify the appropriate delegation of roles and responsibilities among the units and system office, with the objective of eliminating redundancies and non-value-added processes.



Goals

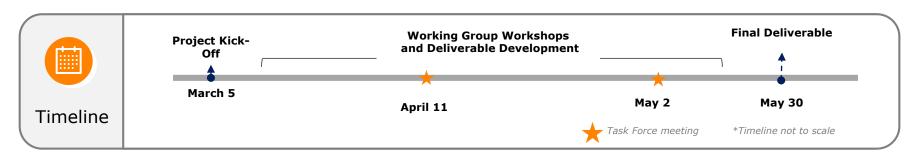
- To facilitate workshops with the assigned Working Groups to articulate the desired future state
- To provide high-level overviews of leading practice examples to expand the thinking and perspective of the stakeholders involved
- To document the roles and responsibilities for the proposed future state business model
- To identify opportunities for further review by the System for each area



In-Scope Areas

- Capital Projects
- Human Resources
- Procurement & Contracting

- Information Technology
- Communications & Marketing



Initiative by the Numbers

Thank you to the Task Force and working group members for their cumulative time and effort invested into this initiative.



Functional Areas



Working Group Members



Workshops Conducted



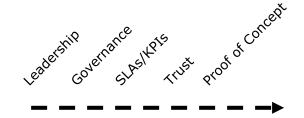
Processes and Functions Reviewed

Current State Assessment

The gulf between UT's current state and leading practice will require strong governance, metrics, trust, proof of concept, and leadership to overcome.

Where UT is Today

- A negative perception among stakeholders of what is possible in the future state
- Strong memories of past attempts at shared services or centralization
- Lack of funding and central resources
- Lack of expertise
- Lack of data sharing



Leading Practice

- Ability to leverage scale
- Centralization
- Professionalization
- "Centers" of **expertise** on functional areas to serve all entities
- Common data definitions and **sharing** across the system and entities

The system's **future technology modernization** may help to alleviate the pain points identified in the current state, but will require significant resources and staff focus to implement.



Seven Principles for Effective Change Management

Effective transformation requires an enterprise-wide approach that seeks to improve and enhance organizational models, operating processes, technology, leadership, and talent models.



Successful change initiatives typically begin with leaders, who should be in alignment before the project is launched. To gain this alignment, all major stakeholders who will be affected by the change—and who can influence the changes being implemented—should be brought together.

Knowing what leadership wants to achieve— and having a clear vision of how much better things will be if the contemplated initiative is successful—is key to effective alignment and core project communications.



It's critical that leaders take time to understand the institution's existing culture before embarking on a change initiative. Any undertaking that doesn't align with, act on, or uphold the institution's values will likely encounter resistance.

This may require seeking out individuals in the larger virtual higher education ecosystem with direct knowledge of the institution in question, such as former deans, provosts, or administrators. Take the time to do this vital research.



Different people consume information in different ways. While email may be sufficient for some, others immediately delete an email before even opening the message.

Know the media that work best for your audience. It's likely that the same information needs to be communicated in various ways—through numerous vehicles and with substantial opportunities for multidirectional dialogue—to create the critical mass of knowledge needed to make the message matter.



Seven Principles for Effective Change Management

Walk a mile in the shoes of those whose roles will change.

Create winwins and align incentives. Embrace relentless incrementalism to help achieve radical change.

The employee experience should be treated the same way as the customer experience. Therefore, it's important to understand every step of the change journey for faculty, staff, and administrators and how it could affect their day-to-day work.

Find ways for the university, departments, and individuals to benefit from the envisioned changes.

Starting with a bold goal in mind and taking small steps relentlessly can build organizational capital in the same way that compounding annual investment returns can build wealth



That's why it's critical to ensure that leadership is aligned on the project's vision and change management success criteria from the start. In addition, it's important to create mechanisms for objectively measuring and monitoring success. The resulting data and insights can then be used to continuously calibrate the change management plan to the reality on the ground.

Procurement & Contracting

Summary of Procurement & Contracting

The Procurement & Contracting working group noted the need for further discussion on potential reorganization of the function across the system.

Overview

The Deloitte team conducted five workshops with the working group and one additional discussion.

- 1 Current State (March 28)
- Future State Visioning (April 3)
- Future State Visioning (April 18)
- 4 Refine Prototype (April 25)
- Final Recommendations Confirmation (May 13)

Current State Themes



Organization. The Procurement and Contracting functions are not consistently organized across the system, with the two functions integrated in some entities and separated in others.



Decentralization. Purchasing ability and data input functions are decentralized across the system, with departments able to buy and execute agreements valued at less than \$10,000 without active central oversight.



Talent. The UT system does not require purchasers to undergo any training programs on the relevant processes or policies. The impact of this lack of training can be compounded by complex policies and the organizational decentralization.

Summary of Procurement & Contracting Recommendations (1/2)

Members of the working group generated or endorsed these recommendations and group consensus supported presenting these options to the Task Force.

| # | Recommendation | Category |
|------|---|----------|
| PC 1 | Implement a Procurement Leadership Council that would comprise of campus and system procurement leadership who would gain consensus on motions | 品 |
| PC 2 | Provide system procurement leadership with more formal access to the system and institutional leadership – as a regular agenda item at the CBO meeting – to increase the visibility and influence of the procurement function | |
| PC 3 | Clearly define guidelines for when a purchase order versus contract ought to be used – for example, purchase orders for goods and contracts for services | • |
| PC 4 | Streamline procurement operations/data entry within a smaller group of dedicated experts | |
| PC 5 | Make finding and navigating online policy easier for departmental users | |
| PC 6 | Provide greater levels of training to purchasing staff and develop a certificate program to ensure consistency and quality of staff and services | 60 |





Systems







Coordination with Other Departments





Summary of Procurement & Contracting Recommendations (2/2)

| # | Recommendation | Category |
|-------|--|----------|
| PC 7 | Reduce departments' abilities to buy outside of purchase orders | 3 |
| PC 8 | Implement feedback loops into the procurement process to improve the customer experience | |
| PC 9 | Evaluate the current staff size and adjust staff, as needed | |
| PC 10 | Evaluate contract and PO signature policies and practices to streamline minor approvals | • |
| PC 11 | Update procurement policy to provide greater clarity, reduce procedural aspects, eliminate ambiguity | • |
| PC 12 | Standardize processes in each procurement and contract area | |





Systems







Coordination with Other Departments





Leading Practices – Procurement & Contracting (1/2)

Deloitte further recommends that the UT System consider the following leading practices, which did not receive working group consensus but align with observed best practice in higher education and other industries.

| Category | Opportunity | Estimated Implementation Kickoff |
|-------------------|---|--|
| | Formalize the center-led procurement model to ensure that its principles remain in the event of staff turnover and consider moving to a fully centralized model | Next 6-12 months |
| Organization | Combine Procurement and Contracting functions across the system | Next 12-18 months |
| | Dedicate system-level resources to strategic sourcing and demand management | Next 6-12 months |
| | Create Centers of Excellence focused on specific spend categories | Next 6-12 months |
| | Implement internal controls to better track departmental purchases below the \$10,000 threshold | Next 12-18 months |
| Business Practice | Analyze UT historical spend to make informed recommendations on changes to triggers for contract review | Next 6 months |
| | Rationalize and consolidate the supplier base | Next 12-18 months |

Leading Practices – Procurement & Contracting (2/2)

| Category | Opportunity | Estimated Implementation Kickoff |
|------------|--|--|
| | Update delegated vs non-delegated authority guidelines | Next 6-12 months |
| | Require departments to participate in systemwide buys for larger commodities rather than having the flexibility to purchase according to their own preferences | Next 12-18 months |
| Policy | Create a policy tree that clearly outlines relevant policy references | Next 6-12 months |
| | Consider lowering the current \$10,000 threshold for departmental purchases | Next 12-18 months |
| | Utilize standard UT templates, where feasible, when negotiating contracts with suppliers | Next 6 months |
| Technology | As the next generation ERP is developed, consider investment in a spend analytics solution | Next 12-18 months |

Human Resources

Summary of Human Resources

The Human Resources working group identified succession planning and technology needs as additional priorities for discussion.

Overview

The Deloitte team conducted six workshops with the working group.

- 1 Current State (March 13)
- Future State Visioning (March 19)
- Future State Visioning (March 26)
- Succession Planning (April 16)
- **5** HCM Technology (May 21)
- Refine Prototype (May 21)

Current State Themes



Technology. Documentation throughout HR activities, such as hiring and time/absence, can be very manual, often based on PDFs, and is not automatically housed in the system.



Decentralization. The local campuses and institutes largely run their own HR operations, with support from the system – for example, the call center routes all questions back to the individual entities.



Data and reporting. The UT system currently has limited resources to provide analytics and reporting to the campuses and institutes, making it difficult to view or extract real-time data.



Summary of Human Resources Recommendations (1/2)

Members of the working group generated or endorsed these recommendations and group consensus supported presenting these options to the Task Force.

| # | Recommendation | Category |
|------|--|-------------|
| HR 1 | Codify and document resources available to employees for all HR areas | |
| HR 2 | Submit recommended job description content for the future system CHRO position | |
| HR 3 | Explore existing employee engagement tools and determine objectives and how to administer activities for each local unit | 5 |
| HR 4 | Continued dedicated attention at the system level to equity and diversity, including ensuring that resources are easily accessible | |
| HR 5 | As part of the future ERP initiative, standardize the transactional parts of employee onboarding through electronic experiences | 60 |
| HR 6 | Codify standard data entry practices for all systems | - \$ |





Systems







Coordination with Other Departments





Summary of Human Resources Recommendations (2/2)

| # | Recommendation | Category |
|-------|--|----------|
| HR 7 | Formalize leadership development succession planning practices across the system | 3 |
| HR 8 | Within the future ERP initiative, develop resources for managers who create job descriptions, such as similar language of tasks that can be used for similar positions | 69 |
| HR 9 | Develop system-level resources to support training curriculum development, instructional design, and training system needs | |
| HR 10 | Implement electronic time reporting process across the system | 60 |
| HR 11 | Invest greater resources into system-wide analytics capabilities, including access to real-time dashboard that can drill down to unit-specific views | 60 |
| HR 12 | Explore organizational alignments and functions to enhance collaboration among the system and local units | |





Systems







Coordination with Other Departments





Leading Practices – Human Resources

Deloitte further recommends that the UT System consider the following leading practices, which did not receive working group consensus but align with observed best practice in higher education and other industries.

| Category | Opportunity | Estimated Implementation Kickoff |
|--------------|--|--|
| Organization | Further explore the high impact operating model centered on Communities of Expertise (or Centers of Excellence), Operations Center, and HR Business Partners | Next 1-3 years |
| | Communities of Expertise drive leading practices and processes by applying deep HR functional domain knowledge, a strong understanding of the business imperative, and market trends to deliver thought leadership. These communities/centers should consolidate expertise across the system on specific HR areas. HR Business Partner at each local entity collaborates primarily with business leaders and people managers, and play an important role in HR delivery by driving engagement, workforce and talent management, and organizational change. Standardized Operational Services enable operating excellence by delivering the end-to-end experience efficiently and effectively across HR processes, with an emphasis on inquiry management, transactions, and specialized functional services. | |

Capital Projects

Summary of Capital Projects

The Capital Projects working group largely focused on policy challenges across their four workshops.

Overview

The Deloitte team conducted five workshops with the working group and one meeting with the Office of the State Architect.

- 1 Current State (March 13)
- Future State Visioning (March 20)
- Future State Visioning (April 3)
- 4 Refine Prototype (April 10)
- **5** Meeting with the Office of the State Architect (May 8)
- 6 Project Management Dashboard Demo (May 30)

Current State Themes

- **Policy.** The Capital Projects function is governed by numerous stringent statewide policies that impact all state agencies. As such, there is relatively little flexibility in their operations.
- **Business processes.** Manual processes and paperwork, including information sharing with state agencies, can feel burdensome to units with leaner staff.
- **Data and reporting.** Without a standardized project management and reporting framework across the system, system-level views of the capital projects portfolio are difficult to extract and analyze.

Summary of Working Group Recommendations (1/2)

Members of the working group generated or endorsed these recommendations and group consensus supported presenting these options to the Task Force.

| # | Recommendation | Category |
|------|--|-------------|
| CP 1 | Increase system administration role in supporting unit offices on State Building Commission approvals | |
| CP 2 | Increase unit office involvement in Construction Services Process close-out | Sign (Sign) |
| CP 3 | Increase unit office involvement in Team Evaluations | |
| CP 4 | Submit recommendations to modify capital outlay, maintenance, and lease/disposal approval thresholds | • |
| CP 5 | Clarify definitions of capital outlay vs. maintenance projects | • |
| CP 6 | Submit recommendations to revise the matching fund percentage requirement and sources that can be used to fulfill this requirement | • |





Systems







Coordination with Other Departments





Summary of Working Group Recommendations (2/2)

| # | Recommendation | Category |
|-------|--|----------|
| CP 7 | Implement a system in conjunction with the state to streamline, standardize, and automate the project approval process and flow of information | 60 |
| CP 8 | Implement a project management system with automated and standardized processes rather than manual workflows and spreadsheets | 60 |
| CP 9 | Implement a standardized project reporting framework | -\$ |
| CP 10 | Revise the Conflict of Interest form to define what is allowable context for bidders to know | |
| CP 11 | Revise the existing designer selection process for minor projects | € |
| CP 12 | Design a risk management process with appropriate mechanisms to identify, quantify, and mitigate potential conflicts and issues | 3 |





Systems







Coordination with Other Departments



Leading Practices – Capital Projects (1/2)

Deloitte further recommends that the UT System consider the following leading practices, which did not receive working group consensus but align with observed best practice in higher education and other industries.

| Category | Opportunity | Estimated Implementation Kickoff |
|-------------------|---|--|
| Business Practice | Institute a process to conduct external design reviews on larger projects Above a designated threshold, a process to conduct external design reviews would help to reduce design errors, omissions, and downstream cost growth due to increased change order activity. Additionally, such reviews can reduce project costs by suggesting cost-effective design alternatives and value engineering options. | Next 12-18 months |
| Business Practice | Implement an early payment discount on services and construction contracts Current A/E fees are determined by a schedule rather than a process of negotiation with the firm. Opening the doors for early payment discounts at the time of solicitation could result in better financial terms for UT. | Next 12-18 months |

Leading Practices – Capital Projects (2/2)

| Category | Opportunity | Estimated Implementation Kickoff |
|-------------------|---|--|
| Business Practice | Advocating for alternate project delivery methods not currently utilized, like P3 or design-build, may provide additional value. Current contract vehicles do well to serve most stakeholder needs, but alternate project delivery methods may be beneficial in emergency situations with compressed timelines, high-risk projects, etc. | Next 1-3 years |

Information Technology

Summary of Information Technology

The Information Technology working group emphasized ongoing collaboration efforts and the need to ensure the IT function aligns with the business needs of the larger university.

Overview

The Deloitte team conducted four workshops with the working group.

- 1 Current State (April 8)
- 2 Future State Visioning (April 17)
- Future State Visioning (April 22)
- 4 Refine Prototype (April 29)

Current State Themes

- **Decentralization.** The Information Technology function is decentralized across the system, with each entity largely independently delivering its own services.
- **Relationship-based.** While the local entities do identify opportunities to collaborate on contracts or implementations, this collaboration is largely based on existing relationships rather than any kind of formal governance structure.
- **Siloed.** Even among the entity CIOs, it can be difficult to obtain a holistic view of systemwide infrastructure of IT areas such as the Active Directory or storage.

Summary of Information Technology Recommendations (1/2)

Members of the working group generated or endorsed these recommendations and group consensus supported presenting these options to the Task Force.

| # | Recommendation | Category |
|------|-----------------------------------|----------|
| | Enabling Areas | |
| IT 1 | IT/ Business Mission Alignment | |
| IT 2 | Formalize IT Governance Structure | # |
| IT 3 | Strategic Planning | # |
| IT 4 | IT Talent Budget | |





Systems







Coordination with Other Departments





Summary of Information Technology Recommendations (2/2)

| # | Recommendation | Category |
|-------|--|----------|
| | Functional Initiatives | |
| IT 5 | Data Governance Initiative | 60 |
| IT 6 | Active Directory, Identity Management, and Authentication Initiative | 60 |
| IT 7 | Business Intelligence and Reporting Initiative | 69 |
| IT 8 | Security Standards and Policies Initiative | • |
| IT 9 | Cloud Migration and Management Strategy | 60 |
| IT 10 | Network and Infrastructure | 69 |
| IT 11 | Academic and Instructional Technology | S |
| IT 12 | Pre-ERP Planning Initiative | 60 |





Systems







Coordination with Other Departments





Leading Practices – Information Technology (1/2)

Deloitte further recommends that the UT System consider the following leading practices, which did not receive working group consensus but align with observed best practice in higher education and other industries.

| Category | Opportunity | Estimated Implementation Kickoff |
|--------------|--|--|
| Organization | Stronger Coordinated Governance Create a process and body to formalize the identification of system-wide funding needs and sources for the priorities outlined in the strategic plan. Ensure cross-functional leadership input such that IT decisions are driven by the business and mission needs of the System, in the context of the most efficient and effective solution. | Next 12-18 months |

Leading Practices – Information Technology (2/2)

Deloitte further recommends that the UT System consider the following leading practices, which did not receive working group consensus but align with observed best practice in higher education and other industries.

| Category | Opportunity | Estimated Implementation Kickoff |
|--------------|---|--|
| Organization | Centralization and Strengthening of the IT Function Working through the governance group defined above, focus on rationalizing IT spend across the system and reducing duplication and redundancy. Leverage the scale of the full System to provide robust security practices, effective application solutions, and strategic IT leadership and guidance to all institutions, which maintaining appropriate geographic presence to meet end-user needs. Initially, consider the following incentive mechanisms: 1) Explore coordination between IT reporting lines to allow for better collaboration and consolidated leadership. Leverage governance, SLAs and metrics tracking to ensure effectiveness. 2) Redesign the funding model to create a more significant centralized funding source to allocate toward strategic system-wide priorities and ubiquitous services. | Next 1-3 years |

Communications & Marketing

Summary of Communications & Marketing

The Communications & Marketing working group focused on opportunities for increased collaboration, including shared strategies and vendor contracts.

Overview

The Deloitte team conducted three workshops with the working group.

1 Current State (April 16)

- 2 Future State Visioning (April 30)
- **3** Refine Prototype (May 7)

Current State Themes



Collaborative. The entities regularly share best practices and professional development opportunities.



Independent. The system has not fully developed a strategy around joint communications. The units tend to operate according to their own strategic objectives rather than in concert with the larger group, leveraging their own sets of resources.



Technology. The units each have their own technology platforms, with a few exceptions in which smaller units can piggyback on a UT-Knoxville contract. Additionally, a number of units have not been able to dedicate resources to audience research or analytics.

Summary of Communications & Marketing Recommendations (1/2)

Members of the working group generated or endorsed these recommendations and group consensus supported presenting these options to the Task Force.

| # | Recommendation | Category |
|------|---|----------|
| CM 1 | Select an annual communications theme that is reinforced throughout the year by various communications stakeholders and media across the system | 5 |
| CM 2 | Gain clarity on the distinctive brand identity and key representatives for the Knoxville campus versus the system administration | |
| CM 3 | Establish standards of terminology and references to individual campuses, institutes, and the system | • |
| CM 4 | Review public records request policies and procedures and identify any potential change recommendations | 3 |
| CM 5 | Expand professional development programming to include external opportunities including conferences and industry associations | 5 |
| CM 6 | Conduct an annual communications strategic planning workshop to define collaborative communications activities | |





Systems







Coordination with Other Departments



Summary of Communications & Marketing Recommendations (2/2)

| # | Recommendation | Category |
|-------|--|-------------|
| CM 7 | Share innovative ideas and risks/failures across the system at biannual in-person communications meetings with campus communicators | |
| CM 8 | Streamline public record request processes by enhancing system communications and coordination | - \$ |
| CM 9 | Clarify or develop further guidance regarding information transparency and preservation standards | • |
| CM 10 | Establish strategic community relations functions at all campuses/institutes (where such a function does not exist) and at the system level in order to achieve key organization goals within the strategic plan | |
| CM 11 | Explore opportunities for common resource sharing, including technology and contracts | 60 |
| CM 12 | Conduct a shared audience research initiative | |





Systems







Coordination with Other Departments





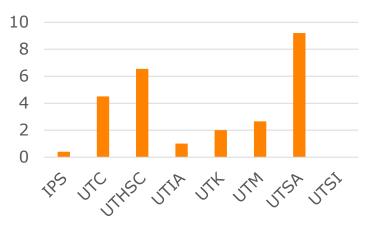
Leading Practices – Communications & Marketing

Deloitte further recommends that the UT System consider the following leading practices, which did not receive working group consensus but align with observed best practice in higher education and other industries.

| Category | Opportunity | Estimated Implementation Kickoff |
|--------------|--|--|
| Organization | Create a community of practice, encompassing all individuals participating in communications and marketing Each entity has a significant number of local communicators who are not formally part of the communications and marketing team. Creating a community of practice offers that opportunity to share best practices and collaborate on important initiatives. | Next 6 months |
| Organization | Explore governance structures, including dotted reporting lines, to align system and campus/institute offices As the system considers developing a shared communications strategic plan, better defined governance structures should be put in place to help support accountability to both the individual campuses as well as the mission of the System as a whole. | Next 12-18 months |

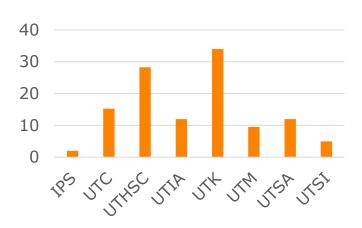
Staffing numbers were self-reported by the working groups.

Procurement & Contracting Staffing



| Unit | FTE |
|-------|------|
| IPS | 0.4 |
| UTC | 4.5 |
| UTHSC | 6.55 |
| UTIA | 1 |
| UTK | 2 |
| UTM | 2.65 |
| UTSA | 9.2 |
| UTSI | 0 |

Human Resources Staffing

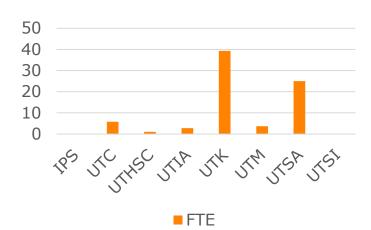


FTE

| Unit | FTE |
|-------|-------|
| IPS | 2 |
| UTC | 15.25 |
| UTHSC | 28.25 |
| UTIA | 12 |
| UTK | 34 |
| UTM | 9.5 |
| UTSA | 12 |
| UTSI | 5 |

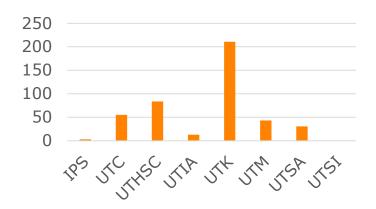
Staffing numbers were self-reported by the working groups.

Capital Projects Staffing



| Unit | FTE |
|-------|------|
| IPS | 0 |
| UTC | 5.82 |
| UTHSC | 1.05 |
| UTIA | 2.8 |
| UTK | 39.3 |
| UTM | 3.65 |
| UTSA | 25 |
| UTSI | 0 |

Information Technology Staffing

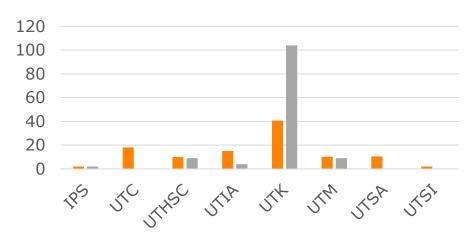


FTE

| Unit | FTE |
|-------|--------|
| IPS | 3.1 |
| UTC | 55 |
| UTHSC | 83.75 |
| UTIA | 13 |
| UTK | 210.75 |
| UTM | 43 |
| UTSA | 30.5 |
| UTSI | 0 |

Staffing numbers were self-reported by the working groups.

Communications & Marketing Staffing



- Communications and Marketing FTE
- Other Unit Communicators Headcount

| Unit | FTE | Other Communicators Headcount |
|-------|-------|----------------------------------|
| IPS | 2 | 2 |
| UTC | 18.05 | 0 |
| UTHSC | 10 | 9 |
| UTIA | 15 | 4 |
| UTK | 40.65 | 104 |
| UTM | 10.14 | 9 |
| UTSA | 10.51 | 0 |
| UTSI | 2 | 0 |

Task Force for Effective Administration and Management

David Miller (Chair)

UT System

Chief Financial Officer

Richard Brown (Co-Chair)

UT Chattanooga

Executive Vice Chancellor for

Administration

Tonja Johnson

UT System

Executive Vice President and Chief

Operating Officer

Chris Cimino

UT Knoxville

Senior Vice Chancellor for Finance

and Administration

Petra McPhearson

UT Martin

Vice Chancellor for Finance and

Administration

Tony Ferrara

UT Health Science Center

Vice Chancellor and Chief Financial

Officer

Tim Fawver

UT Institute of Agriculture

Chief Business Officer

Gail White

UT Institute for Public Service

Budget Director

Deloitte Team Contact Information

Scott Friedman
Principal
scottfriedman@deloitte.com
267.290.5973

Megan Cluver Senior Manager mcluver@deloitte.com 802.281.2979

Kim Dunham Manager kdunham@deloitte.com 617.416.6096

Irene Kan Senior Consultant irkan@deloitte.com 571.317.5692