

Who Should Read

Chief Business Officers Chief Financial Officers Budget Directors Academic Resource Planners

Hallmarks of Higher Education's Most Strategic Finance Functions

4 Ways to Use This Report

- Redesign financial processes, systems, and reporting to improve efficiencies and create staff capacity for strategic analysis
- Improve reliability and accessibility of campus data to enhance decision support
- Create new financial planning roles and restructure budget planning teams
- Increase analytical support for academic budget planning

Business Affairs Forum

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Electronically access this resource: eab.com/strategicfinance

Finance Critical to Navigating Future Uncertainties

Higher education institutions are confronting a host of external pressures, including changing demographics, heightening competition, and increasing student concerns about affordability and value. These pressures are compelling finance teams to perform more—and more complex—financial activities. Three examples of ways in which finance teams' responsibilities are evolving are illustrated below. First, finance teams are beginning to expand the focus of cost and efficiency initiatives beyond administrative units to academic programs. Second, finance teams are starting to more closely analyze the financial implications of strategic investments before committing funding to new initiatives. Finally, some finance leaders are sharing more detailed, longer-range forecasts to satisfy demands from boards, banks, and accrediting bodies.

Finance Responsibility	Find Meaningful Cost Savings	Fund New Strategic Investments	Monitor and Report Financial Performance
Historical Approach	Seek opportunities to improve efficiencies and curb cost growth in administrative units	Allocate new funding based on qualitative evaluation of requests and rough cost estimates	Share annual consolidated reports with boards, banks, and ratings agencies
<i>Change in Operating Environment</i>	Administrative savings near exhausted; revenue growth slowed	Funding for new investments shrinking; urgency to invest to compete growing	Ratings agencies downgrade industry outlook as revenue prospects soften
Emerging Approach	Evaluate efficacy of academic investments to identify reallocation opportunities	Model the total costs and expected returns of new investments to assess tradeoffs and ensure funding in highest priority areas	Present long-range forecasts to demonstrate financial viability and maintain access to capital to fund necessary strategic investments

Traditional Finance Responsibilities Evolving to Meet New Demands

However, many finance units are struggling to perform these expanded responsibilities because they are often staffed and organized to support only reactive, transactional activities (such as processing payroll and purchase orders). **To meet the needs of the modern university, finance leaders must build strategic finance functions that operate in parallel with operational processes.**

Five Hallmarks of Effective Strategic Finance Functions

Unfortunately, many finance leaders struggle to build strategic, forward-looking functions, largely because it is impossible to anticipate exactly what technology, staff, and organizational structures those functions will need in the years ahead. Specifically, it is hard to predict exactly when and how emerging technologies (such as artificial intelligence, digital currency, and automation) will affect operations. But leaders can predict what *pressures* their institutions will face and what characteristics strategic finance functions will need to bear to address them. Finance leaders should start working to achieve these characteristics now to effectively respond to external pressures across the next decade.

Specifically, EAB has identified **five characteristics—or hallmarks—of effective strategic finance functions**, listed below. They describe finance units with optimal data infrastructures, staff profiles, and organizational structures to support strategic planning and analysis.



How to Use This Brief to Achieve the Hallmarks of Effective Strategic Finance Functions

This report introduces **twelve trends** finance leaders are pursuing to transform their functions to achieve these five hallmarks. Each section includes a description of the trends, examples of leaders applying the trends on their campuses, and benchmarking data on the current adoption rate for each trend across the industry. Business leaders should use this information in two ways: First, they should evaluate their own adoption of the trends to identify areas of underinvestment in financial planning. Second, they should use the sample application profiles included with each trend to inform strategic staffing, organizational structure, and process redesign decisions in their units.

The table below summarizes the **twelve trends** that institutions are pursuing to achieve the five hallmarks of an effective future finance function.

Trend	Trend Description	Page Number					
Hallmark 1: Central Data	Hallmark 1: Central Data Infrastructure Supports Strategic Decision-Making						
Trend 1: Executive Level Data Governance Oversight	Committees of select senior leaders and campus stakeholders create and enforce policies and processes that drive consistent, complete, and accurate data use across campus. Senior leaders own data governance vision setting and hold unit directors accountable for executing data priorities.	10					
Trend 2: Data Refinement for Academic Program Analysis	Financial data systems are configured to generate academic cost data at a sufficiently granular level to understand program-level costs. Academic and finance leaders then use academic cost data to analyze program margins—either direct margins or fully loaded margins with agreed-upon indirect cost allocations.	12					
Trend 3: Business Intelligence Teams	Senior leaders dedicate central staff to business intelligence (i.e., collecting, reporting, and analyzing data to make business decisions). Business intelligence staff may report through the CBO, CIO, or provost. Business intelligence staff generate reports and analyses to support strategy conversations, and leaders deploy them to support high-priority unit-level decisions.	14					
Trend 4: Academic Financial Dashboards	Central finance teams generate regular reports for academic unit leaders to monitor and analyze key unit financial performance indicators, such as faculty salaries by type (e.g., full-time, contract, fees, summer pay). Central finance may create reports manually (e.g., in PowerPoint or PDF) or work with business intelligence teams to develop self-service reporting capabilities.	16					
Hallmark 2: New Technol	ogy and Organizational Models Maximize Operating Efficiency						
Trend 5: Technology- Driven Planning Process Redesign	Budget and planning teams use Enterprise Performance Management (EPM) and other solutions to automate data consolidation and workflows, enhance reporting, and expedite planning processes.	20					
Trend 6: Scaled Budget and Planning Services	Finance leaders reorganize staff and/or reallocate process responsibilities to achieve scale in transactional work. By minimizing analytical staff's routine transactional responsibilities, leaders maximize their capacity for financial analysis and planning.	22					

TREND MATURITY

The trend maturity boxes in this report display data collected from 84 finance leaders at 75 unique institutions across the United States and Canada. Leaders were asked to self-assess their institutions' adoption of each trend on a 5-point scale: not adopted, considering adoption, adoption in progress, partially adopted, and fully adopted. EAB collected this data in 2018 and 2019. All data collected is included in the Appendix of this publication, beginning on page 42.

Trend	Trend Description	Page Number					
Hallmark 3: Long-Range Financial Plans Consider Future Revenue Threats							
Trend 7: Long- Range Financial Modeling and Scenario Planning	ng- ncialCentral finance teams build financial models to demonstrate the impact of both planned strategic investments and potential future revenue risks. Models use research-backed assumptions—not straight-line forecasts—to project multiple potential future states. Finance leaders use scenario models and planning exercises to generate consensus around response plans for future operating risks.						
Trend 8: Functional Redesign to Expand Budget and Planning Scope	Finance leaders revamp budget and planning functions to optimize strategic resource planning. Depending on institutional context, leaders reorganize teams to better integrate short- and long-term planning, add or elevate planning staff profiles to increase capacity for modeling and analysis, and elevate functional leadership to signal importance of planning to long-term strategy and financial sustainability.	28					
Hallmark 4: Professiona	lized Staff Support Ongoing Academic Resource Planning						
Trend 9: Embedded Analytical Support in Academic Units	Dedicated professional finance staff analyze academic budgets and help academic leaders use data in resource planning. Financial analysts may sit centrally or in academic units, depending on degree of centrality of resource planning.	32					
Trend 10: Financial Upskilling Programs for Academic Stakeholders	Finance leaders create formal training programs for academic stakeholders to improve financial acumen and drive better resource allocation decisions. Leaders create one or more training programs to address the skills needs of different audiences—in particular, academic budget staff and academic leaders (i.e., deans and department chairs).	34					
Hallmark 5: Central Fina	ance Provides Just-in-Time Consultation on Unit Planning and Stra	itegy					
Trend 11: Metric- Driven Intervention in Unit Performance Issues	Finance and academic leaders define thresholds for satisfactory financial performance for each major operating unit. Leaders use dashboards or other reports to regularly monitor unit performance metrics. When unit performance falls below predefined thresholds, leaders promptly intervene to help unit leaders strategize cost- cutting or revenue growth opportunities.	38					
Trend 12: Internal Financial Consulting Teams	Central finance leaders oversee internal teams that provide technical financial and project management support for unit initiatives. Leaders may hire new teams of dedicated full-time staff to support initiatives or may convene on-demand project teams of existing staff as initiatives arise.	40					

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Hallmark 1

Central Data Infrastructure Supports Strategic Decision Making

Hallmark Description

Institutions possess mature data infrastructures that support strategic decision making and employ data-savvy staff that drive better planning decisions. Finance is the institutional hub for financial data, dashboards, and reporting.

Trends Profiled in This Section

Trend 1: Executive Level Data Governance Oversight

- Bicameral Data Governance Committees
- Chief Data Officers

Trend 2: Data Refinement for Academic Program Analysis

- Chart of Accounts Redesigns
- Activity-Based Costing

Trend 3: Business Intelligence Teams

Centralized BI Teams

Trend 4: Academic Financial Dashboards

- Manual Dashboards
- Self-Service BI Dashboards



Trend 1 Executive Level Data Governance Oversight

TREND IN BRIEF

Committees of select senior leaders and campus stakeholders create and enforce policies and processes that drive consistent, complete, and accurate data use across campus. Senior leaders own data governance vision setting and hold unit directors accountable for executing data priorities.

SAMPLE APPLICATION: BICAMERAL DATA GOVERNANCE COMMITTEES.....

Data governance, the process of creating standards for data elements (e.g., data definitions, potential values, security levels), is a fundamental prerequisite to making data-informed decisions. It promotes consistency that enables reliable data comparison across units. Many institutions, however, suffer from low accountability for data governance responsibilities and poor campus engagement in related discussions.

To correct for this, institutions with effective data governance practices divide responsibilities across two committees. An executive-level strategy committee sets data governance priorities and vision, while an implementation committee executes on the priorities set by the strategy committee. This division of labor has a few benefits. One, executive involvement signals the importance of the work and ensures the implementation committee focuses on the institution's top data priorities. Two, the executive committee holds the implementation committee accountable for executing on critical—but time-intensive—policy work.

The table below includes more information on the composition and responsibilities of each committee.

	Strategy Committee	Implementation Committee		
Role	Direction-setting, signal value	Execution		
Composition	VP- to AVP-level staff from IT, Provost's office, CBO's office, Registrar's office	AVP- to director-level staff from IT, Business Intelligence, and cross-functional data stewards		
Size	5-10 leaders	12-20 staff		
Time Commitment	Minimal (i.e., one hour per quarter or semester)	High (i.e., at least one hour per week or month)		
Agenda	Vision: What areas of the university may benefit most from better data?	Data Definitions: What should the definition and security level for these terms be?		
	Progress: What has the data governance committee done since the last meeting,	Term Requirements: What standard terms do we not have that are causing problems?		
	and what should it focus on until our next meeting?	Data Stewardship: Are the right people in data stewardship roles across campus?		

Bicameral Data Governance Committee Characteristics

. . .

Download the Guide to Selecting Data Governance Committee Members at **eab.com/strategicfinance** for a suggested list of strategy and implementation committee members from 13 campus departments.

SAMPLE APPLICATION: CHIEF DATA OFFICERS

Some institutions are taking executive involvement in data governance a step further by creating cabinet-level roles to steward efforts. Although these roles go by different names, Chief Data Officer (CDO) is the most common. CDOs oversee data governance efforts and drive data adoption across campus. While these roles are growing in popularity, by EAB's count, only about 15 higher education institutions currently employ CDOs.

Notably, some business leaders question the need for CDOs in higher education. Institutions may not have a single staff member that possesses a CDO's total attributes and skillsets, but many institutions likely have a group of staff who collectively do. Some leaders argue that they can bring those staff together on their data governance committees to achieve many of the benefits of investing in a CDO role. Leaders who have introduced CDOs, however, insist that data governance is simply too important to leave solely to committees.

Summary of the Chief Data Officer Role Core Duties

- Leads data definition creation
- Coordinates data governance meetings
- · Oversees data quality processes
- · Develops data management policies
- Oversees the design of the data warehouse or data lake and data integration
- Encourages use of BI for decision-making and strategic planning

Desired Attributes and Skillsets

- Experience with data architecture, data management, and development of data governance
- Strong communication skills for both executivelevel and technical implementation discussions

Download sample CDO position descriptions at eab.com/strategicfinance

Estimated Salary (USD)

• \$125K-165K

CDO Role Growing Quickly Across Sectors



Chief Data Officers in higher education in 2018







WISCONSIN





Source: "Higher Education Chief Data Officers Working Group," EDUCAUSE; Chief Digital Officer Summit, "Talent Map 2014;" EAB interviews and analysis.



Trend 2

Data Refinement for Academic Program Analysis

TREND IN BRIEF

Financial data systems are configured to generate academic cost data at a sufficiently granular level to understand program-level costs. Academic and finance leaders then use academic cost data to analyze program margins—either direct margins or fully loaded margins with agreed-upon indirect cost allocations.

SAMPLE APPLICATION: CHART OF ACCOUNTS REDESIGNS

Most financial systems were not initially configured to record expenses at the level of granularity needed to analyze academic program costs (i.e., at the activity or program level). In response, some finance leaders are redesigning their institutional chart of accounts (COA) to collect more granular academic cost data. As illustrated below, COA redesigns provide the granular cost data needed to analyze academic program margins. They also reduce audit risk and make data governance more manageable, since users cannot accidentally record transactions to obsolete fields. However, full COA overhauls are time- and resource-intensive, and most universities need to hire consultants to manage the process.

Importantly, finance leaders do not need to take an "all-or-nothing" approach to improving their COA. Other institutions are targeting sections of their charts for refinement. While targeted refinements don't provide all the benefits of full COA redesigns, they enable more refined cost data for academic margin analysis on an abbreviated timeline. The **University of Oregon**, for example, used this approach to update its financial system to differentiate between tenure-track and contract salaries.

Two Approaches to Updating Chart of Accounts (COA)

Approach	Benefits			Sample Institution
1 Full Overhauls	<i>Refined</i> Cost Data	Reduced Audit Risk	Improved Data Governance	Rutgers
Review and upgrade of entire COA, including elimination of obsolete fields and addition of new fields	>	⊘	>	2-year process to create COA that records transactions at department, location, and activity level
2 Targeted Refinements Selective addition of fields to track certain metrics at more granular level (e.g., faculty payroll data by program type and tenure status)				O UNIVERSITY OF OREGON 1.5-month process to add fields for payroll data for tenure- and non-tenure-track faculty

SAMPLE APPLICATION: ACTIVITY-BASED COSTING

COA redesigns are foundational to obtaining more granular program-level cost data, but they may not fully track all academic costs at the activity level. Specifically, even the most refined charts cannot record faculty costs at the activity level (i.e., across research, teaching, and service activities). In response, some institutions are turning to activity-based costing (ABC) to more rigorously estimate these costs. ABC is a private sector cost accounting practice that identifies and assigns direct and overhead costs to production activities, and then assigns those costs to outputs.

In 2016, the **University of California**, Riverside (UCR) developed and applied an ABC methodology in the College of Arts, Humanities, and Social Sciences. With ABC, UCR business and academic leaders have more visibility into upper-and lower-level course costs, and they are using these insights to inform course offerings and enrollment caps. However, their ABC implementation was time- and resource-intensive. It took more than a year to implement the model in just one of seven academic units, and they needed to engage three different consultants to develop and execute the methodology. So while many institutions remain curious about ABC, given the effort, few institutions have actually pursued it to-date.

VERSIDE Activity-Based Costing Model

Successful ABC Implementation in One Academic Unit...



Integrates data from 6 data systems



Calculates course-level cost data through 6 faculty activity categories and 5 indirect cost pools

Provides course-level margin transparency for curriculum planning

> Yields program-level margins for growth planning

...But Implementation Requires Significant **Investment in Technology and External Support**



Years to implement for College of Arts, Humanities, and Social Sciences (1 of 7 units)

\$1.4M

External fees to Grant Thornton, Pilbara Group, and Deloitte

Other UCs Reconsider

"...[It] would not be possible to deploy the actual system at the department level. Rather, a Central Office would need to be staffed and trained to respond to department data requests by manually extracting the requested data ... '

> UC Office of the President's Report on Activity-Based Costing Pilots

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Source: Anguiano M, "Cost Structure of Post-Secondary Education: Guide to Making Activity-Based Costing Meaningful and Practical," December 2013; "Activity-based Costing Pilot Studies Final Report," University of California, April 2018; EAB interviews and analysis.



Trend 3 Business Intelligence Teams

TREND IN BRIEF

Senior leaders dedicate central staff to business intelligence (i.e., collecting, reporting, and analyzing data to make business decisions). Business intelligence staff may report through the CBO, CIO, or provost. Business intelligence staff generate reports and analyses to support strategy conversations, and leaders deploy them to support high-priority unit-level decisions.

SAMPLE APPLICATION: CENTRALIZED BI TEAM

Institutions cannot fully realize the benefits of data investments without staff who can access data, analyze it, and communicate trends to leaders. This need is contributing to the emergence of a new role, the business intelligence (BI) analyst. Unfortunately, many business and academic leaders are struggling to hire new BI staff, since BI analysts are in demand across industries (and commanding commensurately high salaries). In response, institutions are creating central BI teams that consolidate BI resources and scale their skill sets across campus.

For example, the **University at Buffalo** centralized existing analytical staff to create a new Office of Institutional Analytics. Senior leaders wanted to expand data analytics in academic affairs. Through planning conversations, they identified two academic administrators with sophisticated data skills, plus an Enrollment Management staff member spending a small portion of his time on BI activities. They hired these staff into new roles and formed a central BI team. BI staff now spend the majority of their time on analytics, and leaders can deploy their in-demand skill sets to the highest-priority projects.



Central BI Team's Early Impact

- Providing analytic support for key academic and administrative initiatives
- Creating 20+ dashboards for financial decision-makers, spanning space, HR, student, and financial metrics
- Producing data visualizations in Tableau (e.g., student enrollment by program) to enhance decision support
- Training academic and administrative leaders on BI tools to drive data adoption

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CONSIDERATIONS FOR POSITIONING BI TEAMS

As more institutions build central BI capabilities, many leaders question the most appropriate reporting structure for these teams. EAB research has surfaced a variety of reporting relationships and has found that no one reporting structure works best for all campuses. Instead, the right structure depends on an institution's leadership team, strategic goals, and existing IT capabilities.

The chart below lists the three most common reporting structures, plus considerations for evaluating the appropriateness of each structure on campus. IT is a likely candidate, but it is not an ideal positioning if campus views IT as a commodity. For stakeholders to optimally utilize BI teams, they must view them as strategic resources (i.e., not as tech support). BI can also report to the CBO. This structure is a good fit if BI goals span financial strategy, or if IT already reports to the CBO. Finally, BI teams can report to the provost. This structure works well when BI goals are focused on student success, teaching and learning, or research.

Office	Indicates Promising Placement	Indicates Consideration of Other Placement
CIO	• IT has strong campus brand	IT seen as a commodity
	• IT leaders have analytical backgrounds	BI strategy focused in one area
	Nascent warehousing efforts	Analytics infrastructure is self-sustaining
СВО	 BI strategy focused on administrative operations and strategy 	 Finance and administrative leaders lack analytical backgrounds
	 CBO and Provost closely aligned on BI strategy 	 IT and IR siloed in other administrative divisions, collaboration unlikely
	 Finance and administrative staff possess analytical skillsets 	
	• IT and/or IR report to the CBO	
Provost	 BI strategy focused on student success, teaching and learning, and/or research 	 Academic and/or IR leaders lack analytical backgrounds
	• Strong analytical resources and leadership in existing IR office	 Academic resistance to sharing analytical resources with administrative units

Considerations for BI Reporting to CIO, CBO, or Provost

EAB RESOURCE TO JUMP-START BI INITIATIVES

When thinking about how to prioritize BI's efforts, leaders should let institution-specific strategy lead. However, EAB's "Ten No-Regrets Analyses" can serve as a helpful starting point for academic analytics. This infographic outlines 10 foundational analyses that isolate key academic cost drivers and savings opportunities, such as measuring faculty workload and collapsing excess sections.

Download the infographic at eab.com/strategicfinance



eab.com



Trend 4 Academic Financial Dashboards

TREND IN BRIEF

Central finance teams generate regular reports for academic unit leaders to monitor and analyze key unit financial performance indicators, such as faculty salaries by type (e.g., full-time, contract, fees, summer pay). Central finance may create reports manually (e.g., in PowerPoint or PDF) or work with business intelligence teams to develop self-service reporting capabilities.

SAMPLE APPLICATION: MANUAL DASHBOARDS

To maximize investments in data tools and BI teams, finance leaders need to ensure that their academic colleagues are accessing financial data and considering it in resource planning decisions. To that end, central finance teams are increasingly sharing unit-level financial dashboards with academic leaders. Most finance leaders currently create manual dashboards (i.e., created as PowerPoint presentations or PDFs) in coordination with BI talent and academic decision-makers. While automated, self-service dashboards are the end goal, many institutions will need several more years to build the BI teams and invest in the data tools to support self-service dashboarding. In the meantime, manual dashboards can serve as powerful tools to drive academic leaders' data fluency and adoption.



Spectrum of BI Maturity Across Higher Education

Stevens Institute of Technology and **Carnegie Mellon University** have both developed manual dashboards for academic stakeholders. Their dashboards are built in PowerPoint and Excel4apps, respectively, and share data on year-to-date expenditures and projected revenues. Manual dashboards like these are most impactful when CBOs regularly review them with academic leaders to ensure they are engaging with the data. Accordingly, Stevens' CBO reviews the dashboards in person with deans in quarterly meetings, while CMU's CBO discusses the dashboards live with deans twice per year. At these meetings, academic leaders clarify how to interpret different metrics, and central finance advises unit leaders on how to incorporate this data into their decision-making.

Download sample manual dashboards from Carnegie Mellon University and Stevens Institute of Technology at eab.com/strategicfinance

SAMPLE APPLICATION: SELF-SERVICE BI DASHBOARDS

The **University of California, Berkeley** has moved beyond manual dashboards to provide academic stakeholders with Cal Answers, a self-service BI platform. Cal Answers pulls seven years of historical data from nine different data sources. Using this data, the system automates campus stakeholders' most frequently requested reports in user-friendly formats with clear data visualizations.

Cal Answers has generated numerous benefits for UC Berkeley. Because reporting is much faster, deans now use course and workload data more frequently in planning. Deans also have access to new reports (e.g., student course demand) that they are using to improve course planning (e.g., to reduce course bottlenecks and anticipate needs for additional sections). Further, because academic leaders and unit-based staff can access Cal Answers on-demand to answer their own questions, the central finance team now reportedly fields fewer low-value inquiries.

Berkeley

University of California, Berkeley's Self-Service Business Intelligence Platform, "Cal Answers"

Features

- Self-service analytical tool accessible to staff, faculty, and students
- Centralizes all university data in one location (under the motto "One Question, One Answer")
- Contains premade reports and data visualizations to support common tasks and answer one-off inquiries

Cal Answers Data Sources

9 data sources provide 7 years of historical data:

- ERP
 Advancement
 - Procurement
- Information System
- Enrollment ManagementFinancial Aid
- Finance

HR

Student

- Accounts Receivable
- **5.5** Years to build initial system in phases **~\$2M** Annual costs for staff salaries to maintain system

Access Cal Answers at <u>https://calanswers.berkeley.edu/home</u>



Source: University of California, Berkeley, Berkeley, CA; EAB interviews and analysis.

Pell Grant Recipients

Underrepresented Minorities

First Generation New Student

Undergraduate / Graduate

Student Enrollment 2017-18

40,947

es by Paver Statu

ent Trends: Year-Avg Headcoun

Hallmark 2

New Technology and Organizational Models Maximize Operating Efficiency

Hallmark Description

Finance functions leverage technology and innovative organizational models to operate as efficiently as possible. Through automation, process improvement, shared services, and other administrative efficiency initiatives, financial staff perform minimal manual transactions.

Trends Profiled in This Section

Trend 5: Technology-Driven Planning Process Redesign

- Automation Technologies
- Robotic Process Automation

Trend 6: Scaled Budget and Planning Services

- Electronic Finance Help Desk
- Finance Shared Services



Trend 5 Technology-Driven Planning Process Redesign

TREND IN BRIEF

Budget and planning teams use Enterprise Performance Management (EPM) and other technology solutions to automate data consolidation and workflows, enhance reporting, and expedite planning processes.

SAMPLE APPLICATION: AUTOMATION TECHNOLOGIES

Finance teams must meet expanding compliance and reporting demands without increasing staffing levels. Accordingly, leaders need to reduce staff's time spent on lower-value transactional activities (e.g., data entry) to create staff capacity for more strategic work. To that end, many institutions are embracing automation solutions to decrease processing times for a variety of manual financial processes and workflows.

As the graphic below illustrates, business leaders are introducing solutions across financial units—the controller's office, accounts payable, procurement, and budget and planning, among others. While these solutions automate different processes to varying extents, the applications share a common benefit of decreasing staff time spent on transactional activities to create capacity for more strategic work.

In particular, many leaders are prioritizing automation solutions within budget and planning to shift staff capacity to strategic activities like financial analysis. These solutions digitize and automate manual components of the budget process, improving the quality of insights and accuracy of reporting.

				The University of Texas Rio Grande Valley	Winiversity of Kentucky
Finance Function	Controller	Controller	Accounts Payable	Procurement	Budget and Planning
Vendor Product	Wdesk (Workiva)	Rapid Insight	Chrome River	Jaggaer	Axiom (Kaufman Hall)
Process Automated	Populating footnotes in quarterly financial reports	Year-end revenue reconciliations	Submission, processing, and management of travel payments	Submission and processing of procurement receipts	Generation of financial reports, budgets, and plans
Results	Decreased report errors and version control issues; faster report creation speed (30+ hours saved)	Reallocation of staff time from report creation to data analysis	Faster reimbursements, fewer faculty complaints	Reallocated FTEs to strategic roles; payment processing reduced from a month to less than a week	90% reduction in time to produce select reports (e.g., daily tuition models)

Results of Select Institutions' Investments in Automation Technologies

SAMPLE APPLICATION: ROBOTIC PROCESS AUTOMATION

Looking beyond traditional automation solutions, robotic process automation (RPA) is a method of programming artificial intelligence or software "bots" to mimic human behavior, allowing them to perform high-volume, repeatable tasks. RPA can be used to automate nonstandard repeatable processes, such as identifying data points across nonstandard forms and transferring data across systems with different logins. RPA can automate processes that are difficult to code or script into systems and therefore cannot be automated with traditional technologies.

While RPA is an emerging automation application in higher education, private sector adopters have seen promising results—including reducing staff time spent on data entry and journal entry processing. Higher education finance leaders are beginning to pursue similar results in their operations. For example, finance leaders at **Carnegie Mellon University**, an early higher education adopter, are implementing RPA to extract information from nonstandard invoices and import this information into their financial management system.

RPAs Show Promise from Private Sector Successes

95%

reduction in human hours needed to process mortgage loans after Johnson Financial Group implemented RPA to upload and manage data

50%

increase in journal entry processing speed at a Fortune 500 company that used RPA to train a bot to log in, manipulate, and transfer information within an accounting system

Carnegie Carnegie Mellon Making Mellon University Early Investments in RPA

- Utilizing enterprise content management software functionality to route, import, and extract data from AP invoices automatically
- Implementation planned for April 2019





Source: Carnegie Mellon University, Pittsburgh, PA; EnableSoft, Inc., <u>https://www.enablesoft.com/resources/case-</u> studies/johnson-financial-case; KPMG, <u>https://assets.kpmg.com/content/dam/kpmg/us/pdf/2017/10/kpmg-</u> <u>powered-solutions-for-tech-companies-issue-three.pdf;</u> New York University, New York, NY; University of Notre Dame, Notre Dame, IN; University of Texas at Dallas, Dallas, TX; EAB interviews and analysis.



Trend 6 Scaled Budget and Planning Services

TREND IN BRIEF

Finance leaders reorganize staff and/or reallocate process responsibilities to achieve scale in transactional work. By minimizing analytical staff's routine transactional responsibilities, leaders maximize their capacity for financial analysis and planning.

SAMPLE APPLICATION: ELECTRONIC FINANCE HELP DESK

Many budget and planning staff do not have capacity to perform strategic financial activities because they're overwhelmed by lower-value transactional tasks (e.g., collecting and aggregating unit data, submitting time cards, fielding basic finance questions from their colleagues). To expand finance teams' impact on campus, finance leaders are reorganizing staff and reallocating process responsibilities to create capacity for more strategic work.

Leaders can pursue two types of reorganizations to create capacity among existing staff. The first strategy is to centralize high-volume transactional tasks. Many campuses are considering shared services migrations to achieve this goal. Of course, while such initiatives can create the most significant capacity gains, they are often politically fraught and time- and resource-intensive. Fortunately, leaders can still achieve meaningful gains through less disruptive initiatives. **New York University (NYU)**, for example, created its online Finance Service Desk platform to centralize responses to staff's most frequently asked financial questions. Central staff support the platform by fielding questions users cannot find online. NYU estimates that the web help desk answers more than 80 percent of inbound staff inquiries, leaving only the remaining 20 percent to be triaged to finance professionals. Sparing analytical staff from routine inquiries allows staff to focus their energies on higher value tasks.



Access FinanceLink at <u>https://www.nyu.edu/employees/resources-and-services/financelink.html</u>

SAMPLE APPLICATION: FINANCE SHARED SERVICES

The second strategy to create capacity for strategic work is to consolidate all analytical staff into a central function. This is the inverse of the traditional shared services model, which consolidates transactional staff in a central delivery center. **Tufts University** created a central budget center in 2015 by consolidating 30 central and unit-level budget planning staff. In Tufts' model, each academic unit is assigned a dedicated central budget center team instead of employing its own budget staff. Central teams are led by a director and supported by one to two analysts, depending on the size of the unit. Budget center teams perform all transactional budget planning work on behalf of the units. Moreover, budget center staff also have capacity to perform more rigorous analysis of unit performance because they are fully dedicated to budget planning work.

Of course, Tufts' deans and program managers are still accountable for unit financial health. Academic leaders determine financial priorities and have final authorization over all centrally developed budget proposals. To ensure central teams understand unit priorities, they join regular meetings with their assigned units and also host office hours in units to answer ad hoc questions and deepen relationships with unit leadership.





Source: Tufts University, Medford, MA; EAB interviews and analysis.

Hallmark 3

Long-Range Financial Plans Consider Future Revenue Threats

Hallmark Description

Finance functions conduct long-range financial planning and scenario modeling to project the impact of investments and to anticipate revenue threats. Leaders reorganize central budget, planning, and financial analysis teams to coordinate budget planning, modeling, and analysis.

Trends Profiled in This Section

Trend 7: Long-Range Financial Modeling and Scenario Planning

- Revenue Risk Modeling Exercises
- Scenario Planning Workshops

Trend 8: Functional Redesign to Expand Budget and Planning Scope

- Integrated Budget and Planning Teams
- Budget and Planning Functional Reorganization

25



Trend 7 Long-Range Financial Modeling and Scenario Planning

TREND IN BRIEF

Central finance teams build financial models to demonstrate the financial impact of both planned strategic investments and potential future revenue risks. Models use researchbacked assumptions—not straight-line forecasts—to project multiple potential future states. Finance leaders use scenario models and planning exercises to generate consensus around response plans for future operating risks.

SAMPLE APPLICATION: REVENUE RISK MODELING EXCERCISES

Historically, higher education institutions have not regularly built multi-year financial plans, but today's operating pressures are prompting more institutions to project resource availability and plan for financial commitments across a longer time horizon. Finance leaders are also creating more robust financial models to evaluate and plan for the impact of future revenue risks.

For example, Stevens Institute of Technology models the financial impact of changes to its graduate enrollment mix. Graduate students account for more than half of Stevens' total enrollment, and the majority of these students are international students from India and China. When political events elevated the revenue risk of saturated international enrollment to the board's attention, Steven's Financial Planning, Budgeting, and Analysis team built a model to help the board understand this risk and develop a mitigation plan. The model used what-if scenarios and sensitivity analyses to demonstrate the impact of one or both international markets faltering. Ultimately, the models projected that for every one lost international enrollment, Stevens would need to enroll 1.5 new undergraduate students. While stakeholders already acknowledged this risk existed, quantifying it helped them realize its financial magnitude, and prompted leaders to develop a response plan.



International Recruitment Shortfall Modeling Exercise



Board Raises Concerns About International Market Saturation

"Most of our graduate population is international, predominantly from India and China. What will we do if these markets disappeared?"



Finance Builds Model to Project Impact and Inform Response

Select Inputs (Current State and Future Assumptions)

- Undergraduate enrollments
- Undergraduate tuition rate
- Undergraduate discount rate
- Undergraduate instructional costs
- · Graduate program enrollments
- · Graduate program tuition rates







Projected new undergraduate students needed to compensate for every one lost international student



Finance, academic, enrollment leaders share common understanding of revenue risk

Board satisfied with risk mitigation strategy

Source: Stevens Institute of Technology, Hoboken, NJ; EAB interviews and analysis.

SAMPLE APPLICATION: SCENARIO PLANNING WORKSHOPS

Select finance leaders are also facilitating scenario planning workshops to prepare their colleagues to respond to potential revenue risks. In these workshops, academic and administrative leaders discuss a handful of potential future scenarios that would affect institutional sustainability. Workshops help stakeholders better understand the potential financial implications of market forces and build consensus around response plans.

The graphic below illustrates a scenario planning workshop held at a private research institution in the Midwest. Here, the CBO, President, and VP of Enrollment Management brought together 38 leaders and board members to discuss four hypothetical scenarios related to pricing, financial aid, and local competition. Stakeholders first worked through the scenarios in small groups, and then shared their ideas with attendees more broadly.

In addition to improving long-term planning, finance leaders who have executed similar workshops say they can also spur more immediate action. The "doomsday" nature of the discussion often helps stakeholders realize some changes to institutional policy and processes are simply good ideas, and must be executed now in order to make the institution more resilient to external threats.

Eagleton¹ University's Scenario Planning Workshop

Midsize Private Research University in Midwest





1) Pseudonym.



Trend 8 Functional Redesign to Expand Budget and Planning Scope

TREND IN BRIEF

Finance leaders revamp budget and planning functions to optimize strategic resource planning. Depending on institutional context, leaders reorganize teams to better integrate short- and long-term planning, add or elevate planning staff profiles to increase capacity for modeling and analysis, and elevate functional leadership to signal importance of planning in long-term strategy and financial sustainability.

SAMPLE APPLICATION: DEDICATED FINANCIAL PLANNING AND ANALYSIS ROLES

Despite efforts to create capacity for existing staff, finance leaders often need to add roles or hire staff with new skillsets to perform more long-range financial planning and analysis. Specifically, many finance leaders are creating dedicated financial analyst roles for the first time, or hiring new financial analysts to create more capacity for necessary financial planning activities. While the scope and reporting structure of these roles vary across institutions, the skills sought in financial analyst candidates are largely consistent. These skills are reflected in the **University of Virginia** position description excerpted below. Primarily, financial analysts need sophisticated finance and data skills to perform more advanced analyses. Candidates also need strong communication skills to effectively explain complex financial information to nonfinancial audiences.

Finance leaders are creating financial analyst roles in three ways. First, many leaders are adding financial analysts over time by reallocating salary lines from obsolete roles as attrition allows. Second, leaders are rescoping existing position responsibilities so that staff spend more time on financial analysis, particularly as automation technology reduces staff members' transactional workloads. Finally, some finance leaders have effectively convinced their executive colleagues that expanding financial analysis is a critical business need warranting new staff lines.



SAMPLE APPLICATION: BUDGET AND PLANNING FUNCTIONAL REORGANIZATION

A more expansive strategy to expand the scope of budget and planning is to completely overhaul existing functions. **Dartmouth College**, for example, grew its budget and planning team, expanded its responsibilities, and elevated its status on campus. Dartmouth's budget office was historically staffed by one director and one analyst. These staff members mainly supported unit budget proposals and created the annual operating budget. When Dartmouth's board started asking tougher financial questions that this team was not equipped to answer, leaders realized they were underinvested in long-range financial planning and analysis. In response, they added two new analyst positions with higher financial skill sets to expand the budget office's capabilities. They also rebranded the team as the Financial Planning and Budget Office to signal its new strategic role, and raised its leadership from director level to AVP to increase the team's involvement in strategy conversations. The new team has improved the frequency and scope of financial planning and provides more robust, on-demand data and analyses to senior decision makers.

Dartmouth College's Financial Planning and Budget Office Transformation



Source: Dartmouth College, Hanover, NH; EAB interviews and analysis.

Hallmark 4

Professionalized Staff Support Ongoing Academic Resource Planning

Hallmark Description

Finance is embedded in academic decision-making. Professionalized finance staff provide analysis to guide academic leaders' resource planning decisions. Academic decision-makers possess the financial acumen to make informed planning decisions.

Trends Profiled in This Section

Trend 9: Embedded Analytical Support in Academic Units

- Finance Liaisons
- Dedicated Academic Planners

Trend 10: Financial Upskilling Programs for Academic Stakeholders

31

- Financial Training Programs
- Department Chair Mini-MBA Training Program



Embedded Analytical Support in Academic Units

TREND IN BRIEF

Dedicated professional finance staff analyze academic budgets and help academic leaders use financial data in resource planning. Financial analysts may sit centrally or in the academic units, depending on degree of centrality of resource planning.

SAMPLE APPLICATION: FINANCE LIAISONS

Trend 9

Despite the magnitude of academic budget decisions on institutional financial health, many academic leaders do not have access to professional finance staff to regularly consult on resource planning decisions. In response, institutions are introducing new roles and organizational models to expand and enhance unit-based analytical support.

Some finance leaders are creating liaison models to scale the analytical capabilities of existing staff. At **Creighton University**, professional analysts historically worked only in the three largest academic units, while faculty or administrative assistants managed budgets in other units. Finance leaders lacked the funds to create new roles in all units, so they proposed a liaison model in which some analysts would support multiple smaller units. The largest units with the most complex finances would retain dedicated analysts.

The CBO negotiated with deans in the large units to pull existing analysts centrally so that they could be redeployed. He also hired a few new analysts to support the model. Even with these new hires, the model was more cost-effective than creating new roles for every unit. Now all deans affirm that they feel better equipped to make resource allocation decisions with their finance liaisons' support.



Simplified Illustration of Creighton University's Budget and Planning Reorganization

CBO's Steps to Reorganization:

2

Met with deans to identify academic units with desire for more central finance support

1

Negotiated with interested deans to move funding and responsibilities for unit financial management centrally Created central staff liaisons to scale new central resources across units with financial demand



Source: Creighton University, Omaha, NE; EAB interviews and analysis.

3

SAMPLE APPLICATION: DEDICATED ACADEMIC PLANNERS

Like Creighton, leaders at **The University of Texas at Arlington (UTA)** realized they needed to provide academic units with professional financial planning support. However, UTA leaders chose a more expansive approach—adding an entirely new layer of analytical staff.

In 2016, UTA created a new AVP for Academic Resource Planning role, charged with overseeing financial planning across academic affairs. The new AVP convinced the president and provost that each of the eight colleges needed its own dedicated financial planner, and the president agreed to fund the new roles as a strategic priority. These unit planners—called Directors of Academic Resource Planning (ARP)—build models and forecasts that support planning, resource allocation, and business process improvement in the units.

UTA already had budget managers working in academic units. Rather than eliminating those roles, UTA retained them and transitioned them to focus entirely on transactional work, supplementing the advanced financial analysis conducted by the Directors of ARP. Retaining these existing staff also helped finance leaders achieve buy-in for the new model.



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Source: The University of Texas at Arlington, Arlington, TX; EAB interviews and analysis.



Trend 10

Financial Upskilling Programs for Academic Stakeholders

TREND IN BRIEF

Finance leaders create formal training programs for academic stakeholders to improve financial acumen and drive better resource allocation decisions. Leaders create one or more training programs to address the skills needs of different audiences—in particular, academic budget staff and academic leaders (i.e., deans and department chairs).

SAMPLE APPLICATION: FINANCIAL TRAINING PROGRAMS

Budget staff require advanced financial planning and analysis skills to perform new resource planning activities, but many current staff members lack these necessary skills. In response, institutions like the **Indiana University System** and the **University of California, Berkeley** have introduced financial training programs to address these skills gaps. These programs teach budget and planning staff how to more efficiently and effectively perform financial tasks and comply with institutional business processes.

The table below shares key characteristics of the IU System and UC Berkeley financial training programs. The programs' content and goals are similar, but the audiences differ. IU trains a hand-selected cohort of unit budget officers, while UC Berkeley's trainings target unit budget officers but are open to all faculty and staff. IU and Berkeley see a variety of training needs across their large staff pools, so they have created training programs with diverse and expansive curricula. Smaller institutions may not need to develop such robust training programs, but instead can use these curricula as starting points to pinpoint topics to reinforce with their staff, based on staff needs.

	Fiscal Officer Development Series	Berkeley Finance Literacy Training		
Goal	Provide financial strategies and tools to increase performance	Build the knowledge, skills, and abilities of campus finance professionals		
Audience	Unit fiscal officers across IU System	Targets unit budget officers but open to all faculty and staff		
Structure	Cohort of 25-30 participants attend 1- to 2-day sessions each month across the academic year	Monthly courses offered across one academic year		
Instructor	Unit leaders and staff across campuses and divisions	Unit leaders across divisions		
Sample Courses	 Budget Development Capital Asset Management Treasury Management 	 Revenue Generation Opportunities GAAP and GASB Understanding Financial Statements 		

Financial Training Programs at Indiana University and UC Berkeley

The Business Affairs Forum's Budget and Planning Talent Development Toolkit provides the full IU System and UC Berkeley training curricula, as well as curricula from the University of Minnesota and University of Virginia. Download these training curricula at eab.com/baf-budget-staff-toolkit to recreate entire training programs or extract certain courses that target particular staff shortcomings.

SAMPLE APPLICATION: DEPARTMENT CHAIR MINI-MBA TRAINING PROGRAM

Academic leaders (i.e., deans and department chairs) also need financial training to make prudent resource planning decisions and work productively with budget staff. However, academic leaders benefit most from training approaches that put financial concepts in the context of their daily decisions.

To that end, the **University of Toronto** offers a mini-MBA training for academic leaders. The one-day training first primes department chairs on the budget issues they are likely to face in their roles, and then gives them an opportunity to apply learnings in interactive exercises. A key feature of the mini-MBA training is an afternoon session in which chairs collaboratively work through four case studies. The case studies simulate some of the technical and financial decisions that they will routinely make in the course of their duties.

Overview of Mini-MBA Training Program UNIVERSITY OF ORONTO Budget Primer (morning) **Case Training** (afternoon) Introduction to the university's budget Scenario-based training modeled on situation at the institutional and common strategic challenges (e.g., college level enrollment planning) Basic breakdown of unit revenue drivers Discussion in small groups to read cases and cost allocation policies (e.g., and formulate a strategy indirect cost charges) Required quantitative or technical work High-level review of program planning mirrors work that will be expected of chairs 1 Managing Reserves and Carry-Forwards 3 Launching a New Professional Master's Program 2 Faculty Workload Planning Research Stream Graduate Enrollment Planning

The Business Affairs Forum's **Budget and Planning Talent Development Toolkit** reproduces all four case studies from the mini-MBA training program. Download the case studies at **eab.com/baf-budget-staff-toolkit** to recreate the mini-MBA training program or share the case studies with academic leaders at existing training days and meetings.



Source: University of Toronto, Toronto, ON; EAB interviews and analysis.

Hallmark 5

Central Finance Provides Just-in-Time Consultation on Unit Planning and Strategy

Hallmark Description

Finance functions provide more intense support for unit initiatives when needed. Finance intervenes if units' financial performance falters and offers financial and project management support to further units' strategic initiatives.

Trends Profiled in This Section

Trend 11: Metric-Driven Intervention in Unit Performance Issues

Academic Unit Financial Scorecards

Trend 12: Internal Financial Consulting Teams

- Internal Consulting Teams
- Matrix Teams



Trend 11 **Metric-Driven intervention in Unit Performance** Issues

TREND IN BRIEF

Finance and academic leaders define thresholds for satisfactory financial performance for each major operating unit. Leaders use dashboards or other reports to regularly monitor unit performance metrics. When unit performance falls below predefined thresholds, leaders promptly intervene to help unit leaders strategize cost-cutting or revenue growth opportunities.

SAMPLE APPLICATION: ACADEMIC UNIT FINANCIAL SCORECARDS

Central finance leaders are increasing their focus on unit financial affairs, recognizing the importance of unit financial health to institutional sustainability. At many institutions, however, central leaders do not have capacity to provide intensive support to all operating units. In response, some leaders are using unit performance data to determine where to provide more support.

The central finance team at **The Ohio State University**, for example, creates a two-page scorecard for each academic unit every two months. Each scorecard contains performance targets for 18 different KPIs across teaching, earnings, research, and advancement. To make the process more manageable, the finance team uses the same 18 KPIs across all units. The scorecards signal performance on targets with red, yellow, and green color-coded arrows, which help central finance quickly spot trends needing their attention.

UNIVERSITY

THE OHIO STATE College Financial **Scorecards**

- Financial Planning and Analysis team generates two-page scorecard for each unit every two months
- Metrics and performance percentage thresholds standardized across all academic units to allow comparisons
- · Each metric tracks five years of historical data with color-coded directional trend arrows to indicate progress on performance targets
- Central finance assigns overall unit health status by combining individual metrics with qualitative observations
- CBO uses scorecard to monitor performance, determine degree of intervention in unit financial affairs



Download Ohio State's full scorecard at **eab.com/strategicfinance**

USING ACADEMIC UNIT FINANCIAL SCORECARDS

After generating the scorecards, Ohio State's central finance team takes the average of all 18 metric scores and assigns each unit an overall score using the same stoplight color schema. In addition to quantitative metrics, the finance team also considers qualitative factors when setting unit scores. For example, units with new deans automatically receive yellow scores.

The overall unit scores prescribe the CBO's involvement in unit affairs. The CBO meets with deans of red units monthly, yellow quarterly, and green annually. Because central finance updates the scorecards every two months, a unit's meeting frequency can change during the fiscal year. About 70% of units receive a green score, allowing the CBO to focus on the 30% of units needing more urgent support. For example, financial scorecards prompted central finance to intervene when the enrollment metric for the College of Arts and Sciences began to trend downward. Central finance helped the dean identify new revenue opportunities before enrollment declines became overly problematic.

	Overall Score	Representative Unit Characteristics	Frequency of CBO Performance Conversations	Typical Share of Units Receiving Score
	Red	 Unit not meeting performance targets Unit has history of financial problems 	Monthly	10%
	Yellow	 Unit performance metrics nearing problem zone Unit leader planning major strategic initiative New dean in seat 	Quarterly	20%
	Green	 Unit meeting performance targets Central confident in unit financial leaders 	Annually	70%

OSU's Central Response to Overall Unit Performance Scores



eab.com



Trend 12 Internal Financial Consulting Teams

TREND IN BRIEF

Central finance leaders oversee internal teams that provide technical financial and project management support for unit initiatives. Leaders may hire new teams of dedicated full-time staff to support initiatives or may convene on-demand project teams of existing staff as initiatives arise.

SAMPLE APPLICATION: INTERNAL CONSULTING TEAMS

Existing academic unit staff often lack the specialized skill sets required to execute strategic initiatives, like vendor evaluation, process redesign, and program launches. Many leaders instead would like to engage external consultants' to support these initiatives, but most do not have the financial resources to hire consultants for all projects. In response, some institutions have built in-house consulting teams to provide more cost-effective expertise on specialized projects.

For nearly two decades, **The George Washington University** has staffed an internal consulting team, the Business Management and Analysis Group (BMAG). BMAG provides four primary services to campus units: business process analysis, financial analysis for high-cost initiatives, project management for technology implementations, and position support for vacant roles. The graphic below includes examples of how campus units have used BMAG's services to support their strategic and operational initiatives.

While BMAG's annual operating costs are approximately \$2.1 million,¹ the team's services replace an estimated \$4.7 million in annual external consultant fees. BMAG also serves as an incubator of financial talent. Nine former BMAG staff now serve in director-level roles across the university, including as unit budget officers.

GW

The George Washington University's Business Management & Analysis Group (BMAG)

- 14 FTEs with backgrounds in higher education, corporate consulting, project management, and financial analysis
- Complete 40+ projects per year
- · 80% of projects proposed by units
- 20% of projects in support of central strategic initiatives (e.g., Presidential projects, ERP implementation)
- Overseen and funded by Finance Division
- \$2.1 million annual operating cost¹

Four Types of Services

Business Process Analysis

Example: Process mapping for research personnel hiring at Graduate School of Education

Financial Analysis

Example: Data analysis and negotiation support for online learning provider for School of Public Health

Proj

Project/Program Management

Example: Implementation of faculty workload solution within School of Nursing

Business Continuity/Position Support

Example: BMAG consultant served as interim Finance Director of Division of External Relations until permanent candidate hired

SAMPLE APPLICATION: MATRIX TEAMS

To support smaller unit projects as they arise, institutions can form one-time cross-functional teams, such as the University of Florida's matrix teams. Matrix teams pull together existing staff with different skills to help units execute projects like process evaluation and redesign.

The graphic below outlines how the University of Florida commissions matrix teams. After unit leaders submit requests for additional project support, the CBO assesses requests and can choose to convene a crossfunctional team of existing staff to support them. Because staff complete work for their matrix teams on top of their full-time job responsibilities, team members devote only a few hours per month to projects. Still, the matrix teams bring a fresh perspective to unit projects and accelerate their completion.

Florida's model is cost-neutral, as staff do not receive additional pay for their work on matrix teams. Nevertheless, staff welcome participating in matrix teams, as they view them as opportunities to expand their skill sets.

University of Florida Matrix Team Formation and Deployment



TREND MATURITY



Source: University of Florida, Gainesville, FL; EAB interviews and analysis.

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All Institutions

n=86	Not adopted	Considering adoption	Adoption in progress	Partial adoption	Full adoption
Trend 1: Executive-Level Data Governance Oversight	20%	19%	25%	29%	7%
Trend 2: Data Refinement for Academic Program Analysis	14%	18%	38%	29%	1%
Trend 3: Business Intelligence Teams	26%	20%	25%	19%	10%
Trend 4: Academic Financial Dashboards	14%	24%	31%	29%	2%
Trend 5: Technology-Driven Planning Process Redesign	24%	27%	30%	17%	2%
Trend 6: Scaled Budget and Planning Services	16%	34%	23%	20%	7%
Trend 7: Long-Range Financial Modeling and Scenario Planning	10%	18%	24%	31%	18%
Trend 8: Functional Redesign to Expand Budget and Planning Scope	13%	26%	26%	21%	13%
Trend 9: Embedded Analytical Support in Academic Units	38%	21%	15%	17%	10%
Trend 10: Financial Upskilling Programs for Academic Stakeholders	37%	32%	21%	7%	4%
Trend 11: Metric-Driven Intervention in Unit Performance Issues	36%	30%	19%	12%	2%
Trend 12: Internal Financial Consulting Teams	47%	31%	6%	14%	2%

Data may not add to 100% due to rounding.

Public Institutions¹

n=53	Not adopted	Considering adoption	Adoption in progress	Partially adopted	Fully adopted
Trend 1: Executive-Level Data Governance Oversight	15%	17%	29%	31%	8%
Trend 2: Data Refinement for Academic Program Analysis	15%	13%	50%	21%	0%
Trend 3: Business Intelligence Teams	25%	15%	29%	19%	12%
Trend 4: Academic Financial Dashboards	12%	27%	31%	27%	4%
Trend 5: Technology-Driven Planning Process Redesign	15%	33%	38%	12%	2%
Trend 6: Scaled Budget and Planning Services	20%	35%	18%	24%	4%
Trend 7: Long-Range Financial Modeling and Scenario Planning	12%	25%	29%	27%	8%
Trend 8: Functional Redesign to Expand Budget and Planning Scope	12%	35%	21%	19%	13%
Trend 9: Embedded Analytical Support in Academic Units	33%	25%	20%	10%	12%
Trend 10: Financial Upskilling Programs for Academic Stakeholders	29%	33%	24%	10%	4%
Trend 11: Metric-Driven Intervention in Unit Performance Issues	29%	40%	21%	8%	2%
Trend 12: Internal Financial Consulting Teams	43%	42%	6%	8%	2%

Data may not add to 100% due to rounding.

Private Institutions

n=30	Not adopted	Considering adoption	Adoption in progress	Partially adopted	Fully adopted
Trend 1: Executive-Level Data Governance Oversight	24%	24%	21%	24%	7%
Trend 2: Data Refinement for Academic Program Analysis	10%	21%	21%	45%	3%
Trend 3: Business Intelligence Teams	31%	24%	21%	17%	7%
Trend 4: Academic Financial Dashboards	21%	14%	31%	34%	0%
Trend 5: Technology-Driven Planning Process Redesign	43%	18%	11%	25%	4%
Trend 6: Scaled Budget and Planning Services	11%	32%	29%	14%	14%
Trend 7: Long-Range Financial Modeling and Scenario Planning	3%	7%	10%	41%	38%
Trend 8: Functional Redesign to Expand Budget and Planning Scope	17%	14%	31%	24%	14%
Trend 9: Embedded Analytical Support in Academic Units	48%	14%	3%	28%	7%
Trend 10: Financial Upskilling Programs for Academic Stakeholders	52%	28%	14%	3%	3%
Trend 11: Metric-Driven Intervention in Unit Performance Issues	45%	14%	17%	21%	3%
Trend 12: Internal Financial Consulting Teams	53%	13%	7%	23%	3%

Data may not add to 100% due to rounding.

Research Institutions¹

n=43	Not adopted	Considering adoption	Adoption in progress	Partially adopted	Fully adopted
Trend 1: Executive-Level Data Governance Oversight	8%	10%	43%	28%	13%
Trend 2: Data Refinement for Academic Program Analysis	10%	8%	43%	40%	0%
Trend 3: Business Intelligence Teams	13%	15%	30%	25%	18%
Trend 4: Academic Financial Dashboards	8%	18%	33%	38%	5%
Trend 5: Technology-Driven Planning Process Redesign	10%	28%	38%	18%	5%
Trend 6: Scaled Budget and Planning Services	13%	30%	18%	28%	13%
Trend 7: Long-Range Financial Modeling and Scenario Planning	8%	23%	30%	28%	13%
Trend 8: Functional Redesign to Expand Budget and Planning Scope	8%	28%	23%	23%	20%
Trend 9: Embedded Analytical Support in Academic Units	26%	28%	13%	23%	10%
Trend 10: Financial Upskilling Programs for Academic Stakeholders	21%	38%	23%	10%	8%
Trend 11: Metric-Driven Intervention in Unit Performance Issues	28%	35%	18%	18%	3%
Trend 12: Internal Financial Consulting Teams	30%	40%	9%	16%	5%

Data may not add to 100% due to rounding.

 "Research Institutions" refers to US institutions with Carnegie Classifications of "Doctoral Universities" or "Doctoral/Professional Universities" and Canadian institutions designated by Maclean's as "Medical/Doctoral" or "Comprehensive."

Teaching-Focused Institutions¹

n=40	Not adopted	Considering adoption	Adoption in progress	Partially adopted	Fully adopted
Trend 1: Executive-Level Data Governance Oversight	30%	28%	10%	30%	3%
Trend 2: Data Refinement for Academic Program Analysis	18%	25%	35%	20%	3%
Trend 3: Business Intelligence Teams	45%	20%	20%	13%	3%
Trend 4: Academic Financial Dashboards	23%	28%	30%	20%	0%
Trend 5: Technology-Driven Planning Process Redesign	38%	28%	20%	15%	0%
Trend 6: Scaled Budget and Planning Services	21%	42%	24%	13%	0%
Trend 7: Long-Range Financial Modeling and Scenario Planning	10%	15%	15%	35%	25%
Trend 8: Functional Redesign to Expand Budget and Planning Scope	20%	25%	30%	18%	8%
Trend 9: Embedded Analytical Support in Academic Units	53%	15%	15%	8%	10%
Trend 10: Financial Upskilling Programs for Academic Stakeholders	55%	23%	18%	5%	0%
Trend 11: Metric-Driven Intervention in Unit Performance Issues	43%	28%	23%	5%	3%
Trend 12: Internal Financial Consulting Teams	65%	23%	3%	10%	0%

Data may not add to 100% due to rounding.

 "Teaching-Focused Institutions" refers to US institutions with Carnegie Classifications of "Master's Colleges & Universities," "Baccalaureate Colleges," or "Special Focus Four Year" and Canadian institutions designated by Maclean's as "Primarily Undergraduate."