

# UF UNIVERSITY of FLORIDA

We seek to put in place exceptional services that facilitate UF's rise to top ten.

Charles E. "Charlie" Lane, Ph.D.
Senior Vice President and Chief Operating Officer

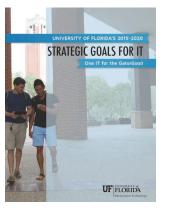
#### Supporting the University of Florida

# 2015-2016 UFIT CONTRIBUTIONS

OneIT for the #GatorGood

### WHAT'S INSIDE

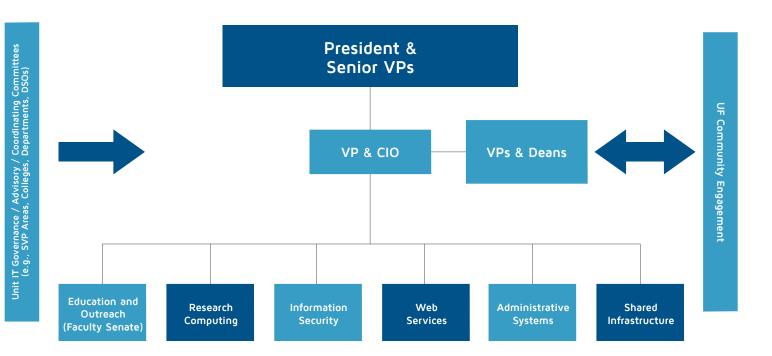
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To view the University of Florida's Strategic Goals for IT 2015-2020 online or to learn more about UFIT's governance process, visit: http://www.it.ufl.edu/vp-cio-office/strategic-plan

# UF Information Technology Governance Overview

#### INNOVATION, RESPONSIVENESS, AND EFFICIENCY



**UF Information Technology governance** is a well-defined, transparent process. These topical advisory committees provide recommendations and guidance on policies, standards, and priorities in support of the university's mission and business goals. Information about the six advisory committees can be found at:

www.it.ufl.edu/governance/advisory-committees/

# Welcome

#### EXCEPTIONAL IT SERVICES IN SUPPORT OF UF'S MISSION

This fall UF is implementing its learning analytics strategic plan. UF, through a partnership with the Unizin consortium, will improve the learning experience with technology, leveraging data to increase the instructor's predictors for student success. There is much to be excited about in bringing learning analytics to the UF undergraduate academic experience, but one important outcome of implementation is that it will benefit those students struggling in a course with early intervention activities. Multiple studies demonstrate that:

- 1. Students benefit from early intervention and multiple channels of notification and support
- 2. Awareness of comparative activity levels and associated grades produce higher engagement, and;
- 3. Student engagement strongly correlates with academic success

Who wouldn't be excited about leading the way on a project that can positively impact so many students for a lifetime? Learn more about UFIT's role in learning analytics on page 4.

Another major initiative this year began this spring: the COMPASS program. COMPASS is a multi-year program that will change the way we interact with student data, from initial application through graduation, and beyond. There are some IT projects that can truly transform the lifeblood of a university, and COMPASS is one of them. Information on the goals of COMPASS may be found on page 10.

Our efforts to support research and innovation have resulted in national and international recognition for the university. Last fall, HiPerGator was judged to be the second most powerful supercomputer among U.S. public universities. UF was also honored with Dell's 2015 Impact Award at the 2015 DellWorld summit, given our innovative approaches to curating and storing Big Data.

It is a great time to be a Florida Gator!



Vice President & **Chief Information Officer** @Eldayrie

# Education and Outreach

# ADVANCE THE UNIVERSITY OF FLORIDA TO THE FOREFRONT OF TEACHING

#### **GOAL #1:** CREATE A TECHNOLOGY-SUPPORTED ECOSYSTEM

#### Outcomes:

- Completed transition of all active courses into the Canvas course management system
- Established UF Learning Analytics governance subcommittee

#### **GOAL #2:** TRANSFORM LEARNING SPACES

#### Outcomes:

- Upgraded the technology in 33 additional classrooms to help support new pedagogies
- Provisioned more than 2 million presentation views in Mediasite
- Provided support for 247 high-definition classrooms

#### **GOAL #3:** MOBILIZE TEACHING & LEARNING SERVICES

#### Outcomes:

- Offered numerous workshops, at times convenient for faculty, on collaborative technologies so instructors could maximize in-class mobile device use
- Supported 200 videoconferencing endpoints across campus used for collaboration and teaching

### **GOAL #4:** OFFER SERVICES FOR RICH MEDIA PRODUCTION

#### Outcomes:

 Built the One Button Studio in Library West, allowing students to easily create their own videos

- Expanded faculty instructional design toolbox options for rich media production in teaching and learning
- Enabled 10,449 multimedia presentations to be created in Mediasite

### GOAL #5: PROVIDE MULTIPLE TECHNOLOGY TRAINING CHANNELS

#### Outcomes:

- Reallocated staff to bolster UFIT's Training group to better meet UF's technology training needs
- Added many online, on-demand, and face-to-face workshops to the UFIT Training catalog

# **GOAL #6:** ENGAGE WITH LEADING INSTITUTIONS AND ORGANIZATIONS TO FOSTER PARTNERSHIPS AND COLLABORATION

#### Outcomes:

- Supported staff efforts to take leadership roles in national forums and with leading higher education organizations, including Unizin, EDUCAUSE, and IMS
- Utilized resources from leading organizations to extend knowledge-base on IT topics relevant to higher education

### **GOAL #7:** SUPPORT AND ENCOURAGE AN INNOVATIVE ENVIRONMENT AND CONTINUOUS IMPROVEMENT

#### Outcomes:

 Collaborated with faculty across the university to implement a learning analytics program





### IMPROVING STUDENT OUTCOMES



### Project Spotlight – Learning Analytics

Analytics is the use of data, statistical analysis, and explanatory and predictive models to gain insights and act on complex issues. The University of Florida recently began developing and deploying analytics with the goal of improving learning outcomes. The research into-and application of-analytics in higher education is relatively new. UFIT started the Learning Analytics Initiative to improve teaching and learning as well as become a leader in the field of learning analytics research.

Learning analytics is of critical strategic importance for the University of Florida, aligning with three of the goals in President Fuchs's *Goal-Setting Task Force Report*. Learning analytics is also aligned with three goals in the *University of Florida's 2015-2020 Strategic Goals for IT*. Working closely with UF's Faculty Senate and the newly launched Learning Analytics governance subcommittee, these are the goals for UFIT's Learning Analytics Initiative:

- 1. Improve learning outcomes.
- 2. Increase student success.
- 3. Decrease time to graduation.
- 4. Improve quality of teaching resources.
- 5. Achieve wide adoption of the use of learning analytics at UF.

Education and Outreach

OneIT for the #GatorGood

# Research Computing

# POSITION UF AS A LEADER IN RESEARCH COMPUTING AND INNOVATION

# **GOAL #1:** EXPAND HPC, DATA STORAGE, AND RESEARCH NETWORK CAPACITY, PERFORMANCE, AND USABILITY

#### Outcomes:

- Delivered ResearchShield, the University of Florida FISMA-compliant environment, in summer 2015
- Upgraded the network authentication platform to allow seamless connections to wireless and VPN systems
- Expanded HiPerGator capacity and capability: UF's supercomputer now has 51,000 compute cores and three petabytes of storage
- Deployed ResearchVault ("ResVault") for research on restricted data that can be prioritized quickly for projects as needed

# **GOAL #2:** ENHANCE AND EXPAND SERVICES THAT USE HIGH-PERFORMANCE COMPUTING, DATA STORAGE, AND NETWORK RESOURCES

#### Outcomes:

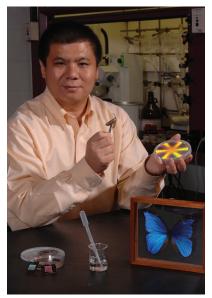
- Launched UFApps for Faculty and a UFApps for Research pilot, enabling access to highperformance software applications from any device, anywhere in the world
- Increased self-service and managed-data storage options for faculty (see opposite page for details)
- Deployed online web form to streamline purchase of compute storage and capacity

### **GOAL #3:** IMPROVE FACULTY AWARENESS AND ACCESS TO USE OF RESEARCH COMPUTING SERVICES

#### Outcomes:

- Started a "lunch and learn" series for users of the restricted data computing environment
- Increased presence of Research Computing staff at Health Science Center and UFIT outreach events and at national and international conferences

### **Empowering Faculty**









### Project Spotlight – Building a FISMA-Compliant Environment

UF's FISMA-compliant environment went live in summer, 2015. The environment, known as UF Research Shield or "ResShield," was fast-tracked to meet the FISMA and NIST standards deadline associated with UF Principal Investigator Dr. Betsy Shenkman, who was awarded a \$40 million contract from the State of Texas for UF's Department of Health Outcomes and Policy (HOP). The required standards, developed to protect sensitive research data, were met ahead of the June 30, 2015, deadline.

By demonstrating that UF can manage the significant hardware and security protocols required to meet the FISMA standard has enabled our faculty to be more competitive when applying for federal funding.

The Federal Information Security Management Act (FISMA) establishes security guidelines for federal agencies or those providing services to federal agencies. The mandates include specific requirements for security programs, along with extensive documentation, policies, and clearly defined processes be in place in accordance with the national security standard (NIST 800-53). Creating a security environment of this level for UF researchers—while not impeding their ability to collaborate and analyze their data—has been recognized in the national higher education community and by federal agencies.

# Information Security and Risk Management

# LEVERAGE IT RISK MANAGEMENT AND INFORMATION SECURITY PRACTICES TO REDUCE ADVERSE IMPACTS TO THE INSTITUTION

### **GOAL #1:** INTEGRATE BUSINESS AND INFORMATION SECURITY PRACTICES

#### Outcomes:

- Evaluated 100+ proposed technology implementations to determine if it's a duplication of effort with current enterprise systems and if appropriate IT controls are in place
- Assisted the COMPASS program by defining general security requirements for its projects
- Continued educating units about the risk assessment process and their roles and responsibilities, and helped them to define the overall scope of projects from a security perspective
- Completed the evaluation, selection, and purchase of a new system to facilitate the risk assessment process, and implemented major improvements to the assessment intake process
- Generated metrics on risk assessments to evaluate efficiency with the assessment process and gage current risk assessment efforts

### **GOAL #2:** INCREASE AWARENESS OF SECURITY RELATED POLICIES AND STANDARDS

#### Outcomes:

- Attained approval for six new UF policies related to security and privacy. All were developed in coordination with the Information Security Advisory Committee (ISAC)
- Utilized the UF/UFHealth Jacksonville campus screensaver to instill persistent security awareness
- Continued to ensure campus constituents understand the UF risk assessment reports and reinforce that they are accountable for all residual risks

 Gave numerous security awareness presentations to faculty, students, and staff to facilitate stakeholder understanding of their responsibilities relating to UF data and information systems

#### GOAL #3: ENHANCE INFORMATION SECURITY ANALYTICS TO BETTER PREVENT, DETECT, RESPOND, AND PREDICT THREATS TO UF'S INFORMATION SYSTEMS AND DATA

#### Outcomes:

- Completed more than 70 risk assessments in 2015-2016, and improved processes for evaluating and managing risks with the creation of a mitigation database for residual risks
- Scanned the university's entire IP address space every 30 days and notified system administrators of critical vulnerabilities
- Established a process for notification and blocking of hosts running end of life (EOL) software, notifying system owners in advance of an EOL event
- Added new vulnerable software versions to the UF detection processes to minimize compromised systems
- Implemented blocking mode testing with the intrusion prevention system to block command and control traffic for hosts that have downloaded and executed malware



### Project Spotlight – Cybersecurity 2.0

Higher education is an early adopter of the 'bring your own everything' (BYOE) environment. While BYOE provides an enhanced level of device connectivity for the university community, privacy issues, data protection concerns, and authenticating system access is an ever-increasing challenge for UF.

UF is obligated to manage risk in order to meet its legal, contractual, regulatory, and moral issues. To continue succeeding in our global information security climate, UFIT is now planning and deploying Cybersecurity 2.0. This project continues our information security mandate to predict, detect, defend, and respond to threats to UF data, networks, and hardware. Data can seem like a remote concept but, apply it to what UF creates and stores—that's your medical chart data, your personally identifying information and tuition payment data, and your favorite professor's transformational research study data.

UFIT partners with campus on a variety of initiatives to underscore the fact that information security isn't just an IT issue—it's everyone's responsibility. In furtherance of this partnership, investments in the information security staff continue, as well as to dedicating significant time and resources to communications, training, and outreach activities.

# Administrative Systems

# PROVIDE ROBUST, RELIABLE, AND TRUSTED ADMINISTRATIVE IT SERVICES

### GOAL #1: MODERNIZE LEGACY SYSTEMS AND UNDERLYING TECHNOLOGY

#### Outcomes:

- Deployed and provided user training and support for OnBase, a new, centrally-supported enterprise document management solution (EDM). Utilizing EDM can help reduce operating costs, expedite business processes, and minimize risks associated with audits and other information requests
- Sunsetted Remedy, a limited service-request system, and moved to the enterprise-wide myIT service request portal
- Secured executive sponsorship, established leadership and governance, and launched the COMPASS program (see opposite page for details)

#### **GOAL #2:** IMPROVE USER EXPERIENCE

#### Outcomes:

- Created and launched a mobilized UF time approver application, allowing all supervisors at UF to approve time and leave from their smartphones and other mobile devices
- Implemented additional student self-service applications in the mobile ONE.UF portal, enhancing the user experience

### **GOAL #3:** PROVIDE PERFORMANCE ANALYTICS TO CLIENTS

#### Outcomes:

- Created HR Analytics Dashboards for the Vice President of Human Resources displaying key HR and Workforce metrics including Job Actions, Headcount/Demographics, Age Breakdown, Salary Breakdown, and DROP Analysis for the university population
- In collaboration with the Office of Research, created research dashboard displaying key research administration and compliance information including items such cost transfers, effort compliance, and Cost Accounting Standard research expenditures

### **GOAL #4:** COLLABORATE WITH BUSINESS UNITS TO IMPLEMENT BUSINESS PROCESS MANAGEMENT

#### Outcomes:

- In collaboration with the Office of Research, the ongoing UFIRST application implementation included a complete redesign of business processes for the Office of Research, Contracts and Grants Accounting, and colleges and departments with research activity
- Introduced new workflows, approval processes, and reporting data for performance metrics related to the research administration enterprise



## **UFCØMPASS**







### Project Spotlight – COMPASS

As a preeminent university at the forefront of online teaching and learning, the University of Florida needs agile and modernized student services systems. UF's existing platforms are increasingly difficult to support, due to new opportunities like UF Online and other innovative degree programs. The technological advances, consumer demands, and constant threats to data security have made the modernization of its student systems a critical need for our university.

In spring 2016, the University of Florida launched the multi-year COMPASS Program. COMPASS is the acronym for 'Campuswide Modernization Program to Advance Student Services.' The COMPASS Program incorporates nine projects that, when fully implemented, will transform UF by unifying its students systems and data.

COMPASS will be implemented in staged releases based on the student lifecycle: Academic Structure, Admissions, Enrollment/Registration/Room Scheduling, Advising/ Student Records/Degree Audit, Student Financials, and Financial Aid. COMPASS also includes implementation of a modern Constituent Relationship Management tool. Visit https://compass.ufl.edu to follow the progress of the COMPASS Program.

# Shared Infrastructure

# PROVISION AND OPERATE EFFECTIVE AND EFFICIENT SHARED IT INFRASTRUCTURE

# **GOAL #1:** CREATE A HIGH-PERFORMANCE INFRASTRUCTURE THAT IS RESPONSIVE, AGILE, AND SCALABLE TO MEET UF NEEDS

#### Outcomes:

- Increased campus wireless density of available wireless access points, enhancing the UF community's ability to access information at any time and nearly any place on campus; extended the wireless access to the Gainesville Regional airport. With these additions and other upgrades, UF's wireless bandwidth has been increased by 50%
- Enhanced UFIT's ability to support the university's interests by upgrading the UF Data Center network to enable virtualized networking. The hardware for this upgrade has been spec'd, ordered and received; and planning is underway for its implementation and eventual migration from the current network
- Created a secure ecosystem for very high-speed networking, storage, and computing

# GOAL #2: ADOPT NEW TECHNOLOGIES AND STANDARDS THAT LEAD TO IMPROVED SERVICES AND HIGHER EFFICIENCY

#### Outcomes:

- Reviewed and implemented cloud infrastructure to house FISMA-related backups for the Division of Sponsored Research
- Enhanced six network environments (Health, Academic, Science DMZ, Administrative, ISN/PCI, and External) to allow specific security posture to like end-points, thus making UF's network infrastructure more secure

 In 2015, Cherwell Service Management was implemented to improve the process whereby the campus community requests IT services and support

### **GOAL #3:** RATIONALIZE COMPUTING AND NETWORK INFRASTRUCTURE

#### Outcomes:

- Completed the evaluation of UF's Unified Monitoring requirements and potential best fits, and submitted recommendations for moving forward
- Created a new 'UFNet2' governance subcommittee of the Shared Infrastructure Advisory Committee, to review and implement network standards
- Developed a Wireless Standards Working Group with all major providers of wireless on campus
- Began work with the Office of Housing and Residence Life to consolidate VoIP phone system, UF AD, and Exchange
- Started a new project with UFHealth to unify VoIP phone systems



### **EXPANDING CAMPUS CONNECTIVITY**









### Project Spotlight – UF's Distributed Antenna System (DAS)

With the completion of Phase III of UF's Distributed Antenna System (DAS) project, the University of Florida's DAS is now the largest in higher education. It's also the largest DAS project ever undertaken in the U.S. by AT&T. The project, begun in 2012, increases the call volume capacity, cell phone coverage, and wireless performance that tens of thousands of students, faculty, staff, and campus visitors rely on each day. The expansion also provides a major boost of connectivity and performance for 90,000+ Gators who descend on The Swamp for gameday Saturdays. The university DAS expansion now provides increased coverage for UF's public safety needs as well as for the medical personnel, patients, and their visitors across 11 buildings of UFHealth.

#### By the numbers:

- 1,427 antennas installed on the UFHealth campus
- 312 antennas installed at Ben Hill Griffin Stadium
- 33 wide-coverage outdoor antennas covering the Main campus

The next phase of the DAS project focuses on the University's East Campus and the O'Connell Center. Work is slated to begin in 2017.

# Web Services

### PROVIDE LEADERSHIP IN WEB AND MOBILE SERVICES AND TECHNOLOGIES

#### **GOAL #1:** PROMOTE A COMMON, HIGH-QUALITY USER EXPERIENCE ACROSS THE UF WEB DOMAIN

#### Outcomes:

- Enabled improved management of websites for distributed IT and departments by deploying and managing universal web content management (WCM) system
- Provided the training and expertise to allow colleges, departments, and units to manage their own web pages
- Provided a more consistent user experience across the university's web presence by upgrading nearly 20 of the critical path websites with the new UF template

#### **GOAL #2:** ENSURE AN ENVIRONMENT OF ADA/SECTION 508 COMPLIANCE AT THE UNIVERSITY OF FLORIDA

#### Outcomes:

- Updated the Web Accessibility resources page, and undertook an ADA and Section 508 awareness campaign with UF's web managers, IT directors, and academic and administrative personnel
- Provided training and updated resources to enable compliance
- · Work is ongoing to update and socialize all university policies related to Accessibility

#### **GOAL #3:** DEVELOP STATE-OF-THE-ART MOBILE WEB APPLICATIONS

#### Outcomes:

- Worked with the Web Services Advisory Committee (WSAC) and UFIT's leadership to prioritize applications in relation to their need for mobilization
- Developed standards and recommended practices for UF's app developers; work and outreach towards this objective will continue in 2015-2016
- Efforts underway to increase staff competencies in web and mobile application development. Additional training will be scheduled in 2015-2016



# **ENABLING ACCESS**







### Project Spotlight – Online Accessibility at the University of Florida

All of UF's electronic information technologies, like e-Learning, online services such as payment systems and course scheduling tools, and UF websites must comply with the Americans with Disabilities Act's Section 508 standards. Section 508 outlines web accessibility requirements. Making University of Florida online resources accessible to everyone, regardless of physical limitation, is not only important to UF's mission of teaching, research and scholarship, and service-it's the law.

The University of Florida is committed to ensuring all of its electronic information technology resources are ADA-compliant. This spring, UFIT's Center for Instructional Technology and Training (CITT) developed "Accessible Online Environments," a new course in e-Learning. The course is designed to teach faculty how online content components that are not accessible or non-compliant can present problems for learners with vision, hearing, cognitive, or motor impairments. The CITT also increased their online toolbox with additional resources for instructors wanting to improve their classroom accessibility skills. More information was also added to UFIT's Web Services Accessibility Recommendations page (http://webservices.it.ufl.edu/about/accessibilityrecommendations/) for web content managers' use across the university.

# Recognition For UF

#### ENABLING ACCOLADES AT THE NATIONAL LEVEL



#### **MEDIASITE**

LARGEST CATALOG OF STREAMING VIDEOS IN HIGHER EDUCATION



#### **ANTENNA SYSTEM**

LARGEST DISTRIBUTED ANTENNA SYSTEM IN U.S. HIGHER EDUCATION



#### HIPERGATOR EXPANSION

GENERATED STORY PLACEMENTS FOR UF IN MORE THAN 20 NATIONAL NEWS OUTLETS



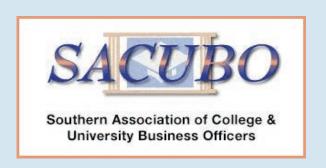
#### **ONLINE PROGRAMS**

RANKED 1ST IN BEST ONLINE PROGRAMS – 2015 US NEWS & WORLD REPORT



## HIPERGATOR - WORLD RANKINGS

RANKED 2ND IN U.S. PUBLIC EDUCATION TOP500 LIST NOVEMBER 2015



#### **MYINVESTIGATOR**

UF AWARDED SACUBO 2015
BEST PRACTICE AWARD



#### **BIG DATA**

UF AWARDED 2015
DELLWORLD IMPACT AWARD



#### SC'15 DELL VILLAGE VIDEO

FEATURING THE UNIVERSITY, ITS RESEARCHERS, AND HIPERGATOR

15 Recognition for UF

# UFIT Strategic Timeline

#### 2010-2015

2015 marked the first five years of VP & CIO Elias Eldayrie's tenure. Supporting the university's mission has always been--and will remain-the priority of UFIT. Some of the strategic actions implemented since 2010 that advance the mission of the University of Florida include:

2010

2011

2012

Established the new UFIT division under the VP & CIO, consolidating IT departments and unifying service delivery for campus

Launched new governance committees and established monthly meetings with campus IT directors, all to advise and inform the decision-making of UFIT

Hired UF's first institutionwide Chief Information Security Officer, elevating the university's commitment to data and network security Introduced an investment matching program for research faculty, strengthening UF's ability to receive grants and conduct research

Distributed the *University of Florida's Strategic Plan for IT:* 2011-2013, a comprehensive goals document built around the six areas of governance

Made substantial investment to expand online course production, increasing capacity by 400% and enabling Florida to be an acknowledged leader in online education delivery Teamed with the Office of the Provost to enhance the <a href="http://teach.ufl.edu">http://teach.ufl.edu</a> website, providing a more robust portal for instructors to enhance teaching skills and efficiencies

Connected to Internet2, expanding UF computing power tenfold and offering a network found in (at the time) only three other U.S. locations

Opened the UF Data Center, providing continuity of operations and greatly expanded capacity for research, academic, and administrative services

2013

Launched UFApps service, providing 24/7/365 access for students to more than 70 software packages from anywhere, on any device

Introduced HiPerGator, the state of Florida's first supercomputer

Renovated the collaborative learning spaces in Marston Science Library, providing nextgen technologies in the commons area and in meeting spaces

2014

Partnered with other top public universities to form the Unizin consortium, leveraging technology costs and curating information on best uses of IT in higher education

Launched the ONE.UF portal, providing a mobilized, modern look that is fully accessible for accessing UF systems and resources

Created ResShield, a FISMAcompliant secure storage environment enabling UF to secure the largest grant in its history

2015

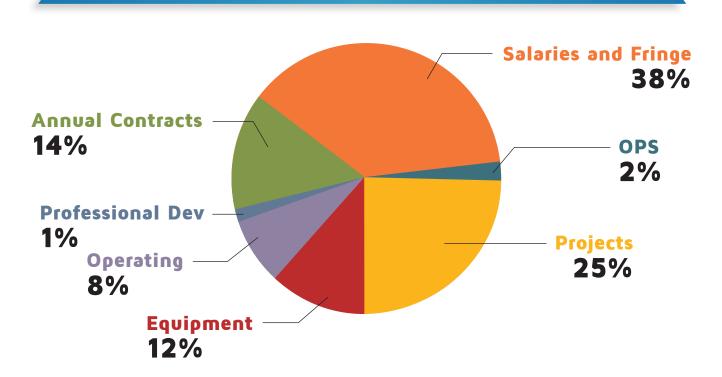
Completed UF's Distributed Antenna System, a provideragnostic service that is the largest in U.S. higher education

Achieved a #2 ranking in U.S. public higher education with expansion of HiPerGator, impacting institutional perception and garnering extensive national press for the University of Florida

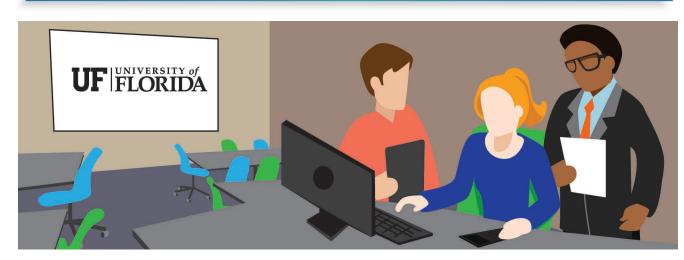
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# UFIT Budget and Staff Overview

#### FY 2016 BUDGET

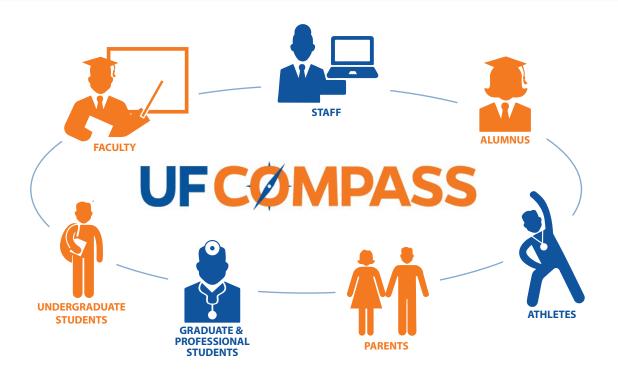


#### NIMBLE STAFFING: LEARNING ANALYTICS



Faced with the challenges of improving learning outcomes and reducing students' time to graduation, UFIT developed a strategy to achieve these goals using learning analytics. Assembling a learning analytics team required new staff competencies, which were realized by investing in staff development—not by adding staff. Individuals with topical expertise were identified and supported while they acquired high-level proficiencies in learning analytics.

#### THE COMPASS PROGRAM: COMMUNITY-WIDE IMPACT



#### BY THE NUMBERS: TOP-10 PROJECTS BY EFFORT IN FY 2016

Projects:	Total Hours of Effort:
Student Information Systems Implementation (COMPASS)	48,211
Federal Information Security Management Act - Texas (FISMA)	10,124
University of Florida Integrated Research Support Tool - Phase 3 Awards (UFIRST)	8,082
Enterprise Document Management - (COMPASS)	6,103
HiPerGator 2.0	5,358
ONE.UF Registration (COMPASS)	3,268
Sakai to Canvas Migration	2,632
Identity and Access Management - Account Management (COMPASS)	2,353
ONE.UF Student and Faculty Self-Service (COMPASS)	2,264
Enterprise Information Management - Platform Implementation (COMPASS)	2,011

UFIT Budget and Staff Overview

OneIT for the #GatorGood 20

