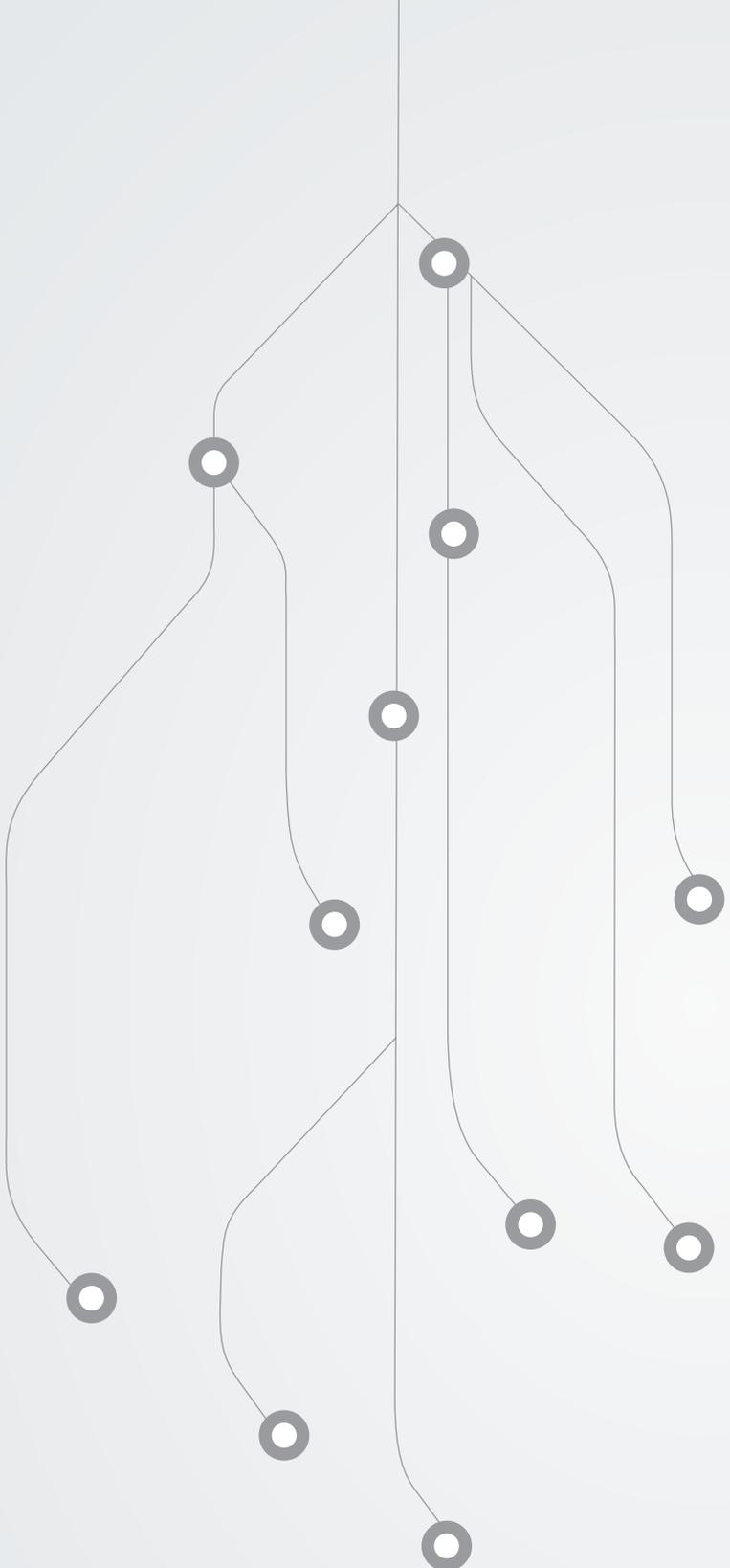


UNIVERSITY OF ILLINOIS



**AIT  
ANNUAL  
PROGRESS  
REPORT  
FY16**

Administrative Information  
Technology Services

# ABOUT AITS

Administrative Information Technology Services (AITS) provides enterprise business services and resources to help students, faculty and staff of the University of Illinois system achieve excellence in teaching, research, learning and administrative pursuits.



**“ Many of our goals rely on collaboration with units throughout the University.**

AITS provides infrastructure and services to support the enterprise business processes of the University of Illinois that are utilized by approximately 80,000 students and 34,000 faculty and staff. Through strategic planning and university-wide collaboration, we focus efforts to empower our community of students, faculty and staff in their daily work with systems and services that function seamlessly and responsively when they're needed the most, and by doing so, support the university mission set forth by its leadership.

In FY16, we completed many projects outlined in our strategic plan and continued to build multi-campus partnerships, while maintaining and improving our core systems and services. These IT projects and initiatives support both immediate and longer-term needs for our university system while enabling the University of Illinois' strategies and objectives.

Many of our goals rely on collaboration with units throughout

the University. As such, we proactively seek opportunities to work with both university administration offices and campus departments to identify process improvement initiatives, bring their already-efficient systems to the enterprise level for the benefit of all university constituents, and improve IT Governance across the University.

This annual report highlights accomplishments from FY16 in support of the AITS Strategic Plan and the projects and initiatives we are engaged in going forward. It represents a continuing effort to support transparency and reflects the continuous hard work by our employees to provide high-quality administrative services and technology infrastructure, complete projects that are prioritized by the campuses with our governance process, and assist University units with data analytics and Business Intelligence tools.

I encourage you to share your comments or questions with me and the members of our team as we continue to build an outstanding IT environment for the University of Illinois system.

**Michael Hites**  
*Senior Associate Vice President*

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# FY16 HIGHLIGHTS

## COLLABORATION

### ENHANCED IT SOLUTIONS FOR STUDENTS WITH DISABILITIES

This project brings together representatives from Disability Resources and Educational Services (DRES) on the Urbana campus, the Disability Resource Center (DRC) on the Chicago campus, the Office of Disability Services (ODS) on the Springfield campus, and representatives from Registrar and IT to develop IT solutions that help to improve the academic performance and success of registered students with disabilities. This solution will simplify and improve the overall quality of services provided to the students who request these federally mandated services, provide access to data which is needed to objectively assess the efficiency and impact of services, better inform ongoing strategic and budget planning processes, and respond to a growing number of requests for disability data at the campus, college and university levels.

### ELECTRONIC CONFLICT OF INTEREST IMPLEMENTATION

For years, the University of Illinois processed staff and faculty Conflict of Interest reports with paper forms and manual routing. The implementation of the Electronic RNUA form brought together faculty and staff from research, ethics and IT offices to implement an online form and develop efficient electronic processing. The next phase of this project will enhance and improve the complicated Faculty conflict processing.

### ENHANCEMENTS TO THE MYRESEARCH PORTAL AND KUALI COEUS IMPLEMENTATION

START myResearch is a collaborative IT project designed to identify the most effective and efficient way to track research administration so that overhead is reduced and researchers can focus on research activities. In FY16, the grant administration software was replaced with the KualI Coeus system and the myResearch PI Portal was enhanced to further enhance grant administration for researchers.

### PREFERRED FIRST NAME IMPLEMENTATION FOR STUDENTS

Many individuals on campus have a desire to be known by a preferred first name instead of their legal first name in the classroom or workplace. The Preferred First Name implementation has been a collaborative project between AITS, the Dean of Students and Registrar offices, and iCard programs, just to name a few. This implementation will allow students, faculty and staff from all three campuses to indicate a preferred first name and have that name used in many University systems.

# WHO WE SERVE

## STUDENTS



Over 80,000 students are enrolled at the three University of Illinois campuses and two regional campuses. Thousands more take classes off campus and online.

Students use AITS services as they:

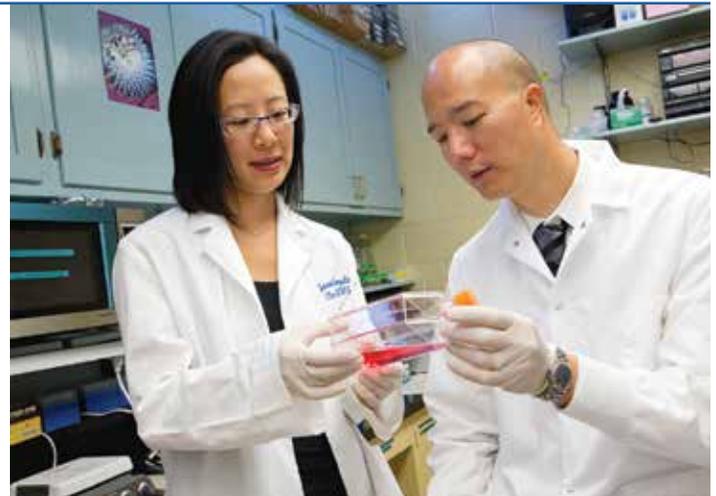
- Register for classes
- Access transcripts
- Receive financial aid
- Check grades and class schedules
- View and manage accounts
- Pay tuition
- Apply for graduation
- Receive work study and student employment earnings
- Find food with Mobile Dining App

## FACULTY

Approximately 6,000 faculty are employed by the University of Illinois. Faculty members are in fields including engineering, agriculture, law, veterinary medicine, the arts, business, liberal arts and sciences, and medicine and the health sciences.

Faculty rely on AITS services to:

- Manage grants
- Access class rosters
- Hire staff
- Submit and receive reimbursements
- Manage benefits
- Record and change grades
- Receive employment earnings



## STAFF

Approximately 34,000 professional, graduate, and support staff members work together to achieve the research and learning missions of the University. AITS services support academic business offices at the University, which in turn, enables those offices to better serve their constituents.

AITS enables efficient:

- Accounting and financial reporting
- Online purchasing
- Grant management
- Student admissions, records and registration
- Human resource services and payroll services



# WHAT WE DO

## ENTERPRISE SERVICES



### Business Processes

Provide analysis, training, tools, and methodology in business process improvement and project management in support of initiatives to improve customer service, free-up staff time, deliver services faster and/or reduce cost.



### Customer Requests

Build and support new systems and functionality as requested by university constituents that are evaluated, selected and prioritized by multi-campus customer-driven IT governance (Information Technology Priorities Committee (ITPC)).

### Systems and Applications

Support of vital business processes of the University by building and maintaining administrative software applications for constituents on all three campuses.

### Data and Analytics

Scope, design, and deliver solutions to university business problems using a combination of enterprise data warehouse, business intelligence, and data visualization frameworks.



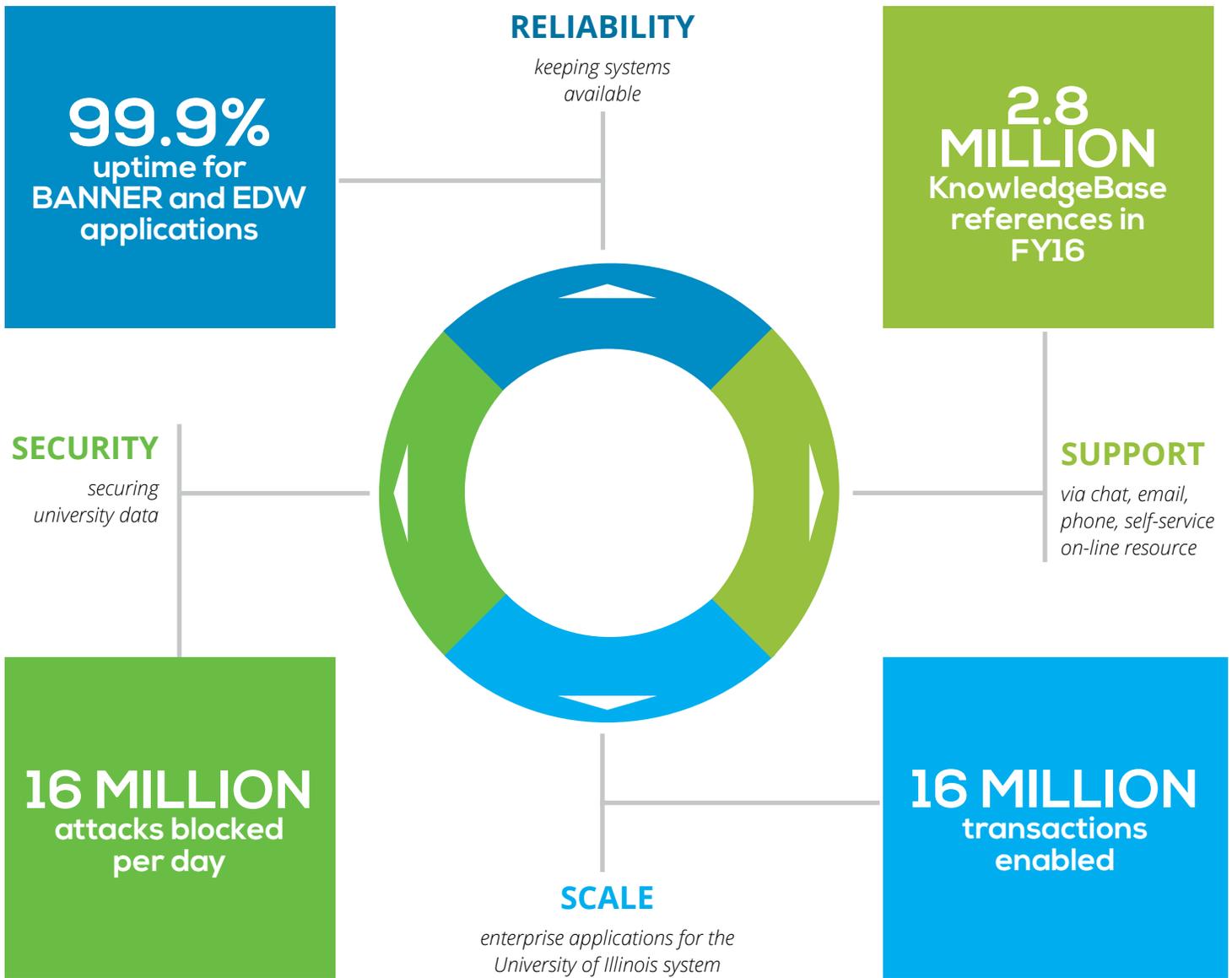
### Support 7x24x365

The AITS Service Desk provides support for clients/constituents and serves as a single point of contact for personalized help with administrative systems. Assistance is also provided through a self-service collaborative tool containing thousands of documents at [answers.uillinois.edu](https://answers.uillinois.edu).



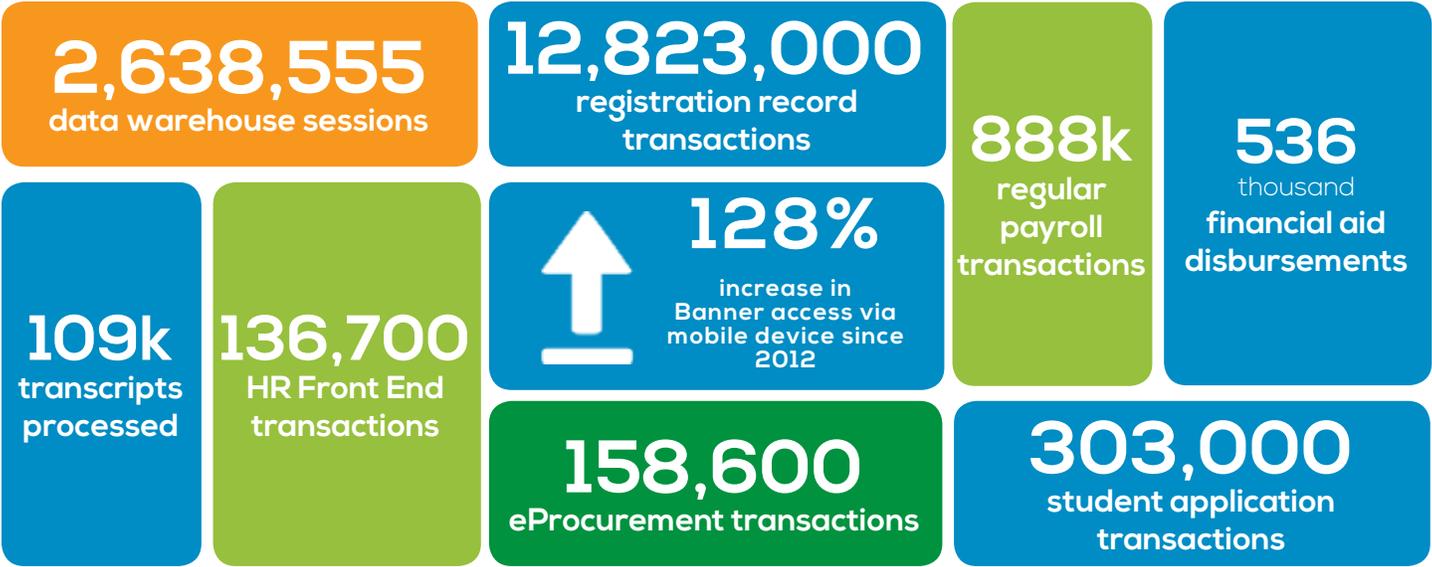
The work of AITS is rooted in industry best practices and standards-based approaches to ensure the quality and consistency of services. Areas of best practice utilization include software development, service management, financial management, organizational effectiveness, IT governance, data warehousing, project management, and security compliance. AITS supports a large number of systems and enables high volume of transactions for the entire University system. The majority of AITS IT services are enterprise in nature, and most serve constituents at all University locations.

# BY THE NUMBERS



AITS is an engaged partner within the University community with the mission of providing IT systems that are accessible, reliable, accurate, efficient and responsive to customer needs. Banner and related systems that AITS supports provide the backbone for University business processes, and it is imperative that these services are highly available and protected to reduce vulnerability to security threats and data breaches.

The value that technology brings to the University of Illinois system is multi-faceted. With IT systems and services that are enterprise in nature and support constituents at all University locations, AITS is promoting the mission of the University by providing quick access to data, enhancing communication and collaboration between students, faculty and staff, and enabling the business side of the University to meet the demands and expectations of its educational mission.



(annual transaction volumes)



**STUDENT SERVICES:**  
Financial Aid Processing | Registration & Records | Recruiting and Admissions



**FINANCIAL SERVICES:**  
Accounts Payable/Receivable | Contract Management | eProcurement | General Ledger Management | Inventory Accounting | Travel Expense Reimbursement



**HR SERVICES:**  
Benefits | Payroll | Recruiting & Training



**PROFESSIONAL SERVICES:**  
Business Process Improvement | Data Visualization | Enterprise Data Warehouse | Identity and Access Management | Mobile Application Consulting | Project Management | Records and Information Management | Security and Compliance Consulting | Workflow Development Consulting | Security Provisioning | Server and Storage Hosting | Quality Assurance | Web Services Consulting | Workstation Management

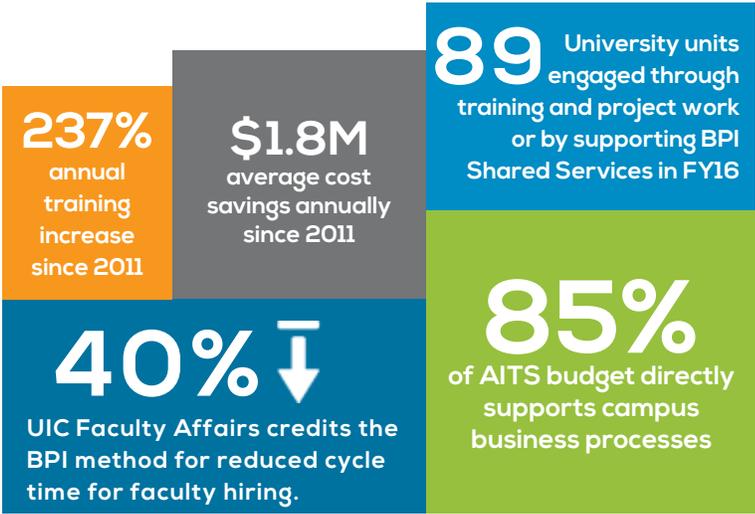


**RESEARCH SERVICES:**  
Research Administration Management

# VALUE AND EFFICIENCY

Through IT delivered at the highest scale, AITS moves the University's business process from paper, to electronic systems, to web-based services, and to mobile technology as demand for productivity increases and as IT continues to innovate.

Since 2011, the Business Process Improvement Shared Service (BPISS) has seen a 237% increase in annual training participation and has averaged \$1.8 million cost savings annually. In addition, the projects that AITS works on support cost reductions that are distributed throughout the campuses, colleges and departments of the University of Illinois system.



# PROJECTS FY 16

SEE HOW WE MAKE AN IMPACT:

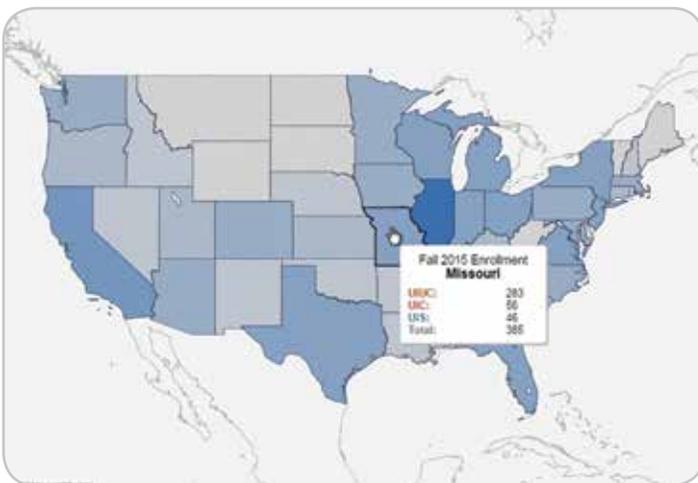


## UNIVERSITY SYSTEM WEBSITE & DASHBOARDS

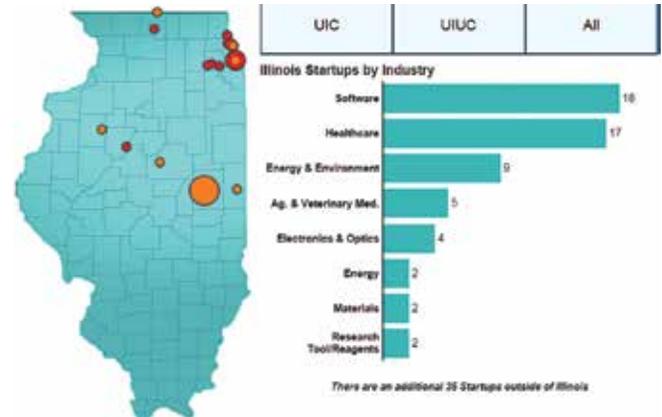
In 2016, AITS and University Relations partnered on a project involving groups from across the university to create a new dynamic website for the University of Illinois system that includes interactive dashboards and report cards that share the University's story.

To view more, visit [www.uillinois.edu/reportcard](http://www.uillinois.edu/reportcard).

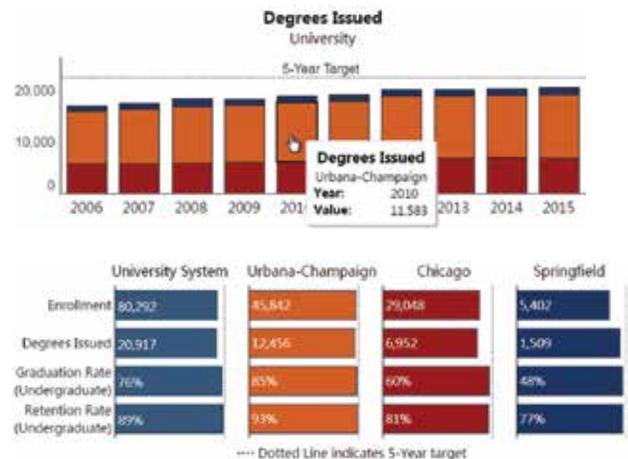
### Student Demographics



### Illinois Startups



### Campus Data



# IDENTITY AND ACCESS MANAGEMENT

**Update Recovery Options**

The contact information you provide will allow self management of your password if it becomes unusable (expired, forgotten, or locked) and will only be used for password changes, computer account security events, or as authorized by law. For more information, please refer to the University Web Privacy policy.

Please provide at least **ONE** type of contact information.

**Non-University Email Address**

**Text-Enabled Phone Number**  
  
Standard text fees may apply, consult your service provider.

**Voice Callback Phone Number**  
  
When number should I call?

IAM established one University credential and reduced the number of times that a user is prompted to authenticate when accessing various University systems. The One ID and Password (OIDPW) phase of the IAM project was implemented at the Springfield and Urbana-Champaign campuses in 2015, giving the students, faculty and staff three self-service options to recover their passwords. Go-live on the Chicago campus is slated for Fall of 2016.

**97%** of users in UIS system

unique users recovery options set within 1 year

**50%** of users in UIUC system

unique users recovery options set within 9 months

# MYRESEARCH PORTAL

The myResearch Portal provides Faculty with Award and Agreement data at their fingertips. The newest release of the myResearch Portal features a completely new design and layout, an enhanced search function, and improved reporting/data export tools.

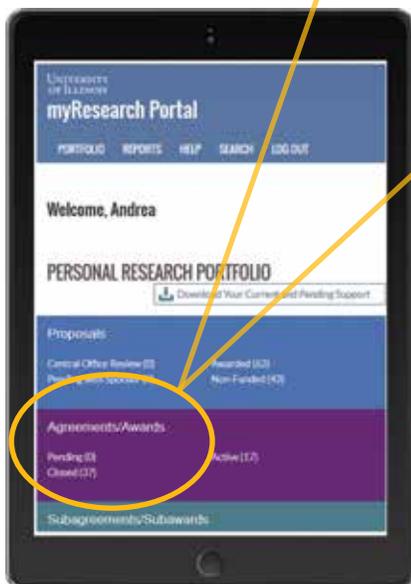
UNIVERSITY OF ILLINOIS myResearch Portal

Research Portfolio - All Awards/Agreements

All Awards/Agreements

Filter and Search Records

Grant	CSV	Excel	TSP	PDF	Show Details	Download
Showing 1 to 50 of 54 entries						
Sponsor	Type	Status	Amount	Start Date	End Date	
US Dept of Justice (DOJ)	Award-Grant	Closed	\$499,200.00	08/01/2007	06/30/2011	
US Dept of Justice (DOJ)	Award-Contract	Closed	\$300,000.00	08/01/2003	07/31/2007	
Community Oriented Policing Service	Award-Grant	Closed	\$425,120.00	08/01/2007	08/30/2014	
US Dept of Justice (DOJ)	Award-Contract	Closed	\$50,000.00	08/31/2005	03/31/2007	
US Dept of Justice (Bureau of Justice Assistance)	Award-Grant	Closed	\$124,376.00	08/01/2007	04/30/2009	
US Dept of Justice (Bureau of Justice Assistance)	Award-Grant	Active	\$423,204.00	10/01/2014	08/30/2016	
IL Emergency Management Agency	Award-Grant	Closed	\$1,420,374.00	08/01/2009	11/30/2012	



With myResearch Portal, PIs and Business Managers can conveniently manage grants with the ability to download current and pending support, view negotiation detail, generate payroll histories and see expenditures and financial summaries in one location.

[myresearch.uillinois.edu/piPortal](http://myresearch.uillinois.edu/piPortal)

# PROJECTS CONTINUED



[www.aits.uillinois.edu/mobile](http://www.aits.uillinois.edu/mobile)

## AIT'S MOBILE DEVELOPMENT

In collaboration with many University departments and state organizations, AITS Mobile Development Services (MDS) is positioning AITS as a mobile leader across the University.

Through the development of several iOS and Android apps to improve the University experience for students, faculty and staff, like the **UI Dining**, **Knowledge Base**, **Illinois DVM** apps, and the **Chicago Water Walk** app that promotes tourism in downtown Chicago, MDS is working hard to promote the AITS Strategic Directions and create valuable tools for the University and surrounding communities.

In the fall of 2016, MDS will release the **UI Student** enterprise app, which includes class schedules and final grades, campus safety and health contacts, and much more.

Future mobile opportunities include collaboration with a number of startup companies to deliver apps to the consumer market, Illinois government representatives to create a constituent-focused app, and exploration of emerging technologies and their practical application such as blue tooth beacons, wearables, augmented and virtual reality, drone-based image collection, data monetization and predictive analytics.

## MY-UI-FINANCIALS

Prior to the release of My-UI-Financials in FY16, there was no universally adopted process through which all departments requested, maintained, and distributed existing official financial reports, and most units accessed information using a variety of software tools and procedures.

With My-UI-Financials, administrators, faculty and PIs are able to quickly access their financial reports any time, any place, day or night, without the need to rely on business offices to go through the tedious and time-consuming process of retrieving relevant information.

*“Because the parameters are already preset, I was able to retrieve years of information in just a few minutes.”*

*Rodney Chambers, Director of Financial Operations, University Library, UIC*

ALL FUNDS		HELP		GO TO RVM							
<b>All Funds</b>											
Filter by: Fiscal Year: 2016 Fiscal Period: 09 - March											
Chart	College	School	Dept.	Type of Fund	Fund Pt Name						
All	All	All	All	All	All						
					Get Records	Clear Row					
Show	100	entries		Search:							
CoA	Fund Cd	Orgn Cd	Prog Cd	Title	Ind	Budget	Cur Month Exp	Expenses	Encumbrances	Bud Bal Avail	Actions
9	100016	582000	582001	Departmental Operations	YTD	0.00	5,021.10	45,943.12	34,018.96	-79,962.08	
9	200201	582000	582001	Departmental Operations	YTD	389,300.00	15,246.03	149,789.74	110,478.43	129,031.83	

*“Using AITS’ usability expertise and development resources, HR was able to translate the functional requirements for the UI New Hire system into a much more efficient and usable system.”*

Tony Kerber,  
SR Director, HRIS Strategy,  
University Administration

# HOW WE DO IT

GOVERNANCE

## IT GOVERNANCE

AITS participates on over 100 partner and customer committees to collaborate on academic, business and information technology issues and solutions, and to help insure IT investments are prioritized and aligned against the university goals and strategies as broadly as possible.

SHARING

## ENTERPRISE TOOLS

Support and provide resources and provisioning of tools for enterprise level IT services being developed or provided by other IT units. Provide IT project, program, and portfolio management training and consulting services.

STRATEGY

## STRATEGIC PLANNING

Everything AITS does is driven by a focus on successful results and the following values: Leadership, Stewardship, Customer Satisfaction, People, Integrity and Learning. We plan and we measure to the plan.

## FOCUS ON EXCELLENCE

AITS employees have a clear sense of organizational purpose, and together provide a culture of growth and development where excellent performance is the goal and expectation for everyone. In early FY16, AITS implemented a formal recognition program to recognize its employees who demonstrate an attitude of excellence through behaviours supporting AITS' mission, vision, values, and/or strategic directions—the foundation of the organization's ability to deliver on our promises to customers. The 65 nominations submitted by customers and colleagues, and representing 24 groups within AITS, demonstrated how the employees exceeded expectations, led by example, identified opportunities, provided exceptional service, or helped implement an innovative solution. Eight employees received multiple nominations!

We are very proud of our two Excellence Awards winners:

**John Tanner, Enterprise Application Administration Specialist:** "...very forward looking in his support of enterprise systems and is always looking for ways to make things more efficient."

**Peter Bossert, Enterprise System Specialist:** "...he always takes the time to understand the evolving business aspects and requirements of financial aid processing."

INFRASTRUCTURE

## ENTERPRISE ADMINISTRATIVE COMPUTING INFRASTRUCTURE

The University requires a foundational infrastructure of reliable information technology resources on which other systems and services depend. These infrastructure services must maintain a superior level of performance and reliability in order to support the mission of the University while being cost-effective, scalable, and accommodating to changing needs and technologies.

275

vended applications supported

### Security

Data and Physical Protection  
Vulnerability Scanning  
Attack Monitoring/Remediation

6,000 SQUARE FEET

Data Centers  
Chicago & Urbana

688

major software applications and business processes supported

1,113

Servers

1,226

databases supported

### Monitoring

System health monitoring  
Application, Server, ORCA, Systems, Network

Change, Project, Configuration, and Release Management

### Co-location Services

Hosting hardware for other organizations

Storage/Backups

439 TB  
configured storage

1.5 PB  
total backups

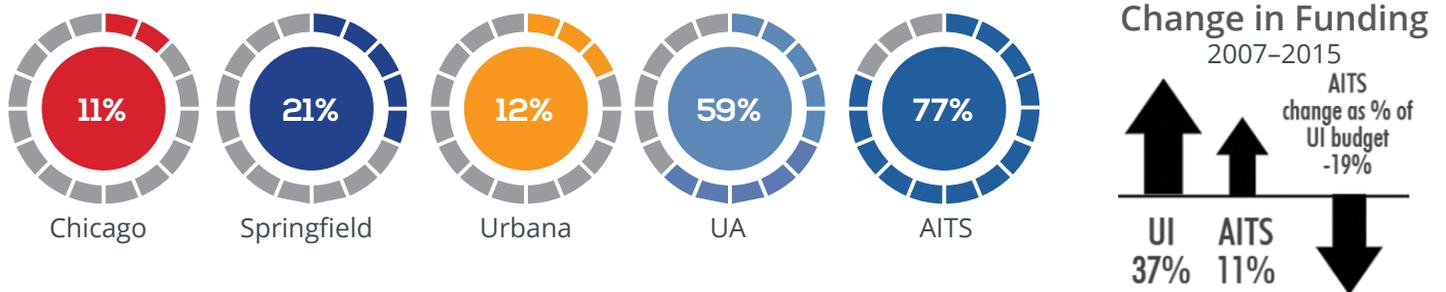
Backup/Disaster Recovery

24x7x365  
System Support

# WHAT IT COSTS

The projects that AITS works on support cost reductions and labor efficiencies that are distributed throughout the campuses, colleges, and departments of the University of Illinois system.

## STATE SUPPORT AS A PERCENT OF FY15 BUDGET

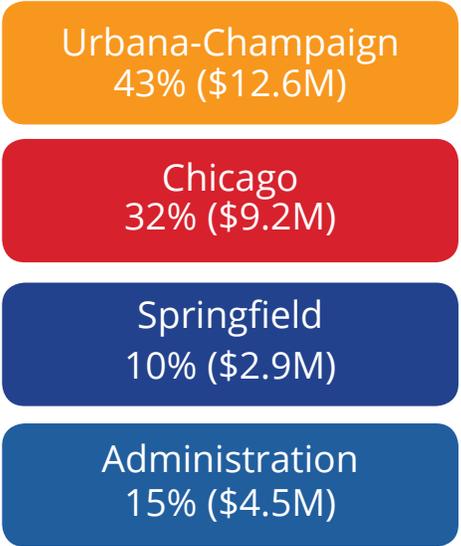


## SUPPORT OF CORE PROCESSES

Line of Business	FTE Cost	Non Labor Costs	Total Cost
BPI (Delivered to Customer)	\$220,633	\$4,794	\$225,427
Collaboration tools	\$78,409	\$11,266	\$89,675
Compliance	\$84,233	\$25,146	\$109,379
Database Customer Services (Consulting)	\$195,143	\$0	\$195,143
Customer Training	\$96,794	\$17,944	\$114,738
Data Visualization	\$287,615	\$0	\$287,615
Centralized Desktop Support	\$1,401,449	\$112,947	\$1,514,396
Enterprise System Support	\$1,696,486	\$700,994	\$2,397,480
Enterprise System Research Administration	\$1,037,469	\$1,135,746	\$2,173,215
Enterprise System Finance Applications	\$1,606,780	\$1,487,143	\$3,093,923
Enterprise System HR Applications	\$2,493,577	\$1,369,128	\$3,862,705
Enterprise System Student Applications	\$2,795,645	\$1,504,356	\$4,300,001
Enterprise System Capital Programs	\$331,233	\$106,546	\$437,779
Enterprise System Mobile Applications	\$574,305	\$53,614	\$627,919
Identity and Access Management	\$1,475,488	\$1,861,346	\$3,336,834
Mobile Applications (Consulting)	\$12,166	\$0	\$12,166
Reports and Data	\$2,179,618	\$977,634	\$3,157,252
Records and Information Management System	\$322,801	\$13,242	\$336,043
Security (Consulting)	\$99,295	\$0	\$99,295
Enterprise Class Storage/Backup Services	\$285,727	\$107,217	\$392,944
Server Support Services	\$48,589	\$146,579	\$195,168
Workflow Development	\$343,247	\$0	\$343,247
Application System Support	\$1,183,091	\$0	\$1,183,091
Security Provisioning	\$312,884	\$0	\$312,884
Data Center Management / Co Location Services	\$160,583	\$56,777	\$217,360
UI Ready (Kuali)	\$3,490	\$125,725	\$129,235
Video Bridge Conferencing (Consulting)	\$117,522	\$141,820	\$259,342
Web Services (Consulting)	\$20,314	\$0	\$20,314
Projects and Portfolio Management (Consulting)	\$196,563	\$203	\$196,766
Web Services Infrastructure	\$72,941	\$7,753	\$80,694
Enterprise Integrations	\$101,390	\$0	\$101,390
<b>TOTAL</b>	<b>\$19,225,325</b>	<b>\$9,925,429</b>	<b>\$29,150,754</b>

0.65% of University Budget

## Customer Resource Utilization



Over the past few years, AITS, which has a budget of \$25 million, has cut expenses by \$2 million, revised our strategic plan, developed a sustainable activity based costing (ABC) model, and integrated all of these aspects into our portfolio and project management office (PPMO).

ABC is being utilized as a well-defined, repeatable, and transparent tool to provide improved

information about the true cost of our services, and in turn, we are using this to determine the most efficient sourcing for strategic planning.

With ABC, we have been able to identify that 85% of the cost AITS incurs are in support of all three campuses in the University of Illinois system.

# AIMS STRATEGIC PLAN FY16–FY18

## STRATEGIC DIRECTIONS

**SAVE TIME:** Improve and add services that increase productivity for faculty, students and staff.

**IMPROVE EASE OF USE:** Improve the usability of AITS services.

**IMPROVE SPEED TO SERVICE:** Improve the time to delivery of AITS Services.

**DELIVER TARGETED AND PERVASIVE INFORMATION:** Provide for strategic, wide-spread use of our data.

**COLLABORATE:** Build and strengthen relationships throughout the University based on mutual trust.



The AITS Strategic Plan outlines the information technology strategies and initiatives of Administrative Information Technology Services. It is designed to be a three-year IT plan that evolves with collaborative input alongside other strategic plans throughout the University of Illinois system.

The planning process that produced the current FY16-FY18 strategic plan document utilized the University of Illinois IT Strategic Planning Process Framework developed in FY12 as a primary input to planning.

On an ongoing basis, progress towards achieving the goals and initiatives in the strategic plan is measured using an online dashboard tool, which promotes shared ownership and tracking responsibilities, as well as easy access to produce reports for easy distribution.

In pursuing these strategic directions, AITS developed and managed to a set of specific initiatives. For a complete accounting of these initiatives and our progress against them, please see The AITS Strategic Plan page on the AITS website at [www.aims.uillinois.edu](http://www.aims.uillinois.edu).

### Summary of AITS Current Progress Towards Strategic Goals as of June 30, 2016

Progress	Critical	Waiting on Someone	Off Target	Not Started	Deferred	On Target	Achieved
Goal	0	0	1	0	0	37	1
Team 1	1	0	6	0	1	17	12
Team 2	0	0	0	1	3	13	1
Team 3	0	0	0	0	0	20	1
Team 4	0	0	0	0	0	20	0
Team 5	0	0	0	0	8	23	1
Team 6	0	0	4	2	0	16	2

# LOOKING FORWARD



## START

- START myDisclosures–2.0 release
- myProposals–begin planning for Proposal Development using Kuali Coeus
- myResearch Portal–planning and analysis of features for high impact to users



## New Uillinois Dashboards & Data

- President's Transparency Dashboards: Academic Excellence, Research & Discovery, Economic Development, Public Engagement, Healthcare
- ICS Data Acquisition Implementation
- Analysis & Implementation of iBuy data into EDW



## Business Process Improvement

- University Procurement Source-to-Pay Process Analysis and Improvement
- Unit Security Contact Request Process Redesign
- Annual Sabbatical Leave Process Improvement



LOGIN



\*\*\*\*\*

## IAM

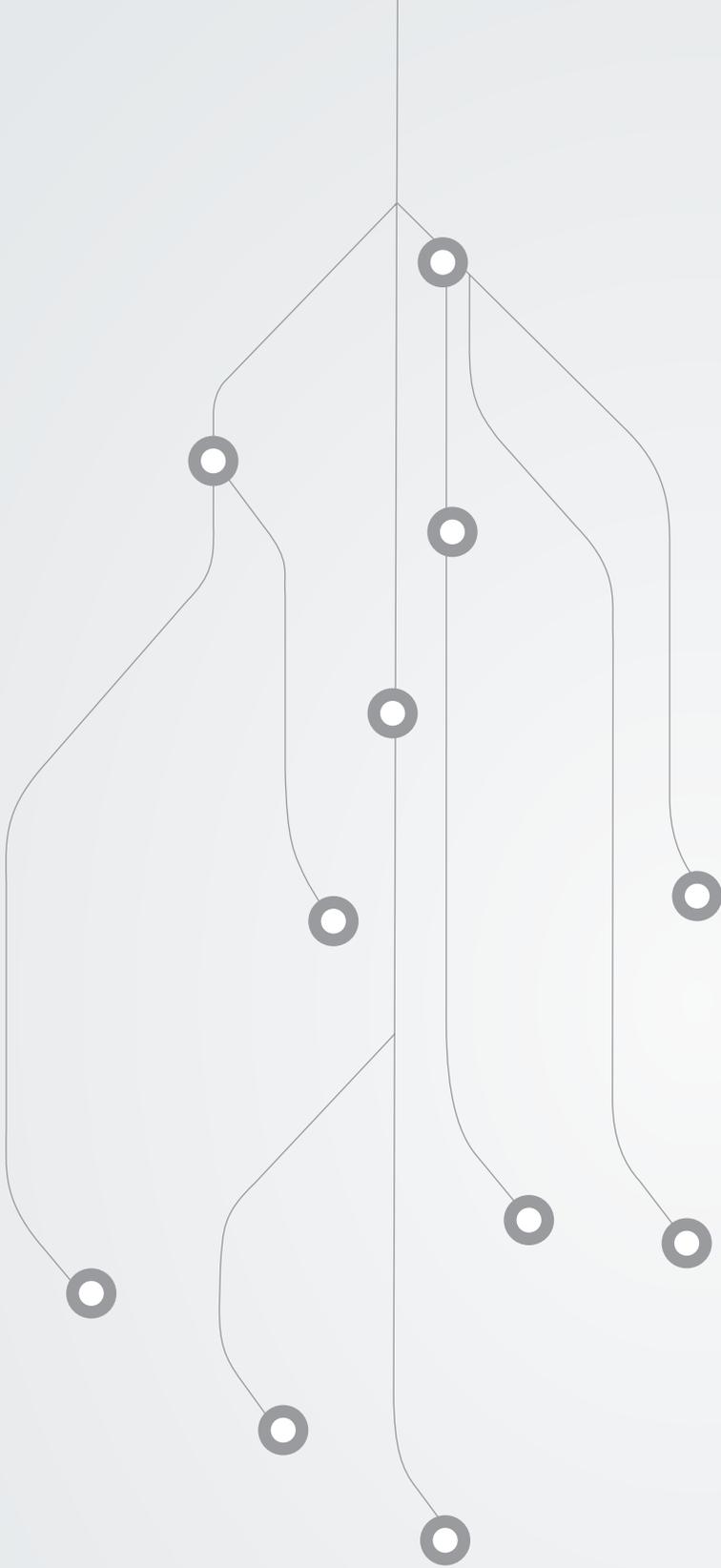
- One ID and Password live at UIC
- Integration to campus Rave application
- Passwords up to 127 characters
- Centralized password expiration
- Integration with campus Slate applications

## AITS Strategic Plan

- Continue feasibility study of university-wide business process analysis and implementation including a feasibility study of our next generation ERP strategy.
- Replace aging Banner hardware infrastructure to improve performance and reliability.
- Pursue new revenue opportunities where they are beneficial and cost effective to the University.
- Promote and support IT governance that is empowered, accountable, and transparent in order to better support the mission activities of the University.
- Protect user and administrative accounts from theft and exploitation by attackers.
- Identify and implement new technologies and products to enable AITS to bring state of the art services to our customers.
- Enable self-service business intelligence for the University community.

## WANT TO GET INVOLVED?

We believe it is important for the university's IT community to be engaged, responsive, and aligned with faculty, student and staff needs, which is why we welcome and encourage the sharing of ideas and technology resources. If you would like to get involved and have ideas for a new project, process improvement initiative, or enterprise service, or would like to provide talent or financial resources for an existing or future project, let us know!



## MORE INFORMATION

<https://www.aitis.uillinois.edu>

AITIS website for AITS services, help resources, and organizational information.

<https://www.uillinois.edu/cio>

UA CIO website for shared services, business process improvement, IT governance information, records and information management, and portfolio and project management.