



UNIVERSITY OF ILLINOIS SYSTEM
URBANA-CHAMPAIGN • CHICAGO • SPRINGFIELD

AITS

Administrative Information
Technology Services

FY17
ANNUAL
METRICS
REPORT

RELIABILITY

AITs supports systems that University of Illinois students, faculty and staff expect to be available 24 X 7 for critical business processes. AITs strives to have systems dependable and reliable for their clients.

Banner and EDW uptime percentage is calculated using unplanned or unexpected outage information. Password Manager does not include planned outages in uptime.

BANNER

99.99
2017
% Uptime

Banner is used by students, faculty and staff to register for classes, pay employees and make departmental purchases

The Enterprise Data Warehouse (EDW) is the authoritative source for critical reporting for the University of Illinois System

ENTERPRISE DATA WAREHOUSE

99.94 2017
% Uptime

PASSWORD MANAGER

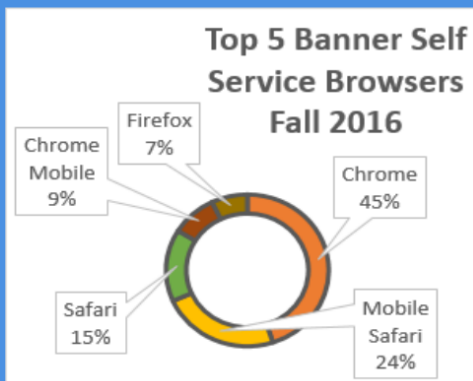
Password Manager is used by all students, faculty and staff to claim their NetID and utilize self-service Password maintenance and resets

99.99
2017
% Uptime

WHAT HAPPENS DURING START OF TERM

Fall 2016

WHAT BROWSER IS MOST POPULAR?



WHEN DO STUDENTS USE THE SYSTEM?



BANNER REGISTRATION Transactions

The highest number of registration transactions are seen on the first day of class for each campus during the start of every term. Fall 2016 #s:

Urbana--Over 100,000
Chicago--Over 55,000
Springfield--Over 3,000

CUSTOMER SERVICE

AITs' Strategic Plan gives guidance to the System to provide ease of use for our applications. We evaluate our services and provide self-service capabilities so that customers can assist themselves.

SCALE

12 million
Registration Records
Processed

157,600
eProcurement
Transactions
(iBuy)

874
thousand
Payroll
Transactions

142,000

HR Transactions
Processed

2.6 Million
EDDIE
Sessions

over 1/2
Million
Financial
Aid
Disburse
ments

In FY17, AITS started initiatives to gather customer feedback. The AITS Service Desk began gathering customer feedback in December, 2016 and the first application survey was the Protected Email Attachment Repository (PEAR) application.

CUSTOMER FEEDBACK

AITs Service Desk Customer Service Evaluation

April 17

77

May 17

79

June 17

78

Net Promotor Score--above 70 for customer service is considered "world class"

PEAR Feedback
3 month avg.(out of 10)

8.59



From our Customers

'Outstanding
Work'

'Vet Med appreciates
high-level service'

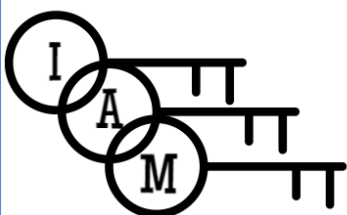
'Project
Management
Class was
great!!!'



'Rock Star'

CUSTOMER SELF-SERVICE

3.5 Million
Knowledge
Base (KB)
Hits



225,000 Password Resets

1,020
Active KB Docs

6,800 & 4,100
Research Proposals
Submitted
Research Awards
Processed



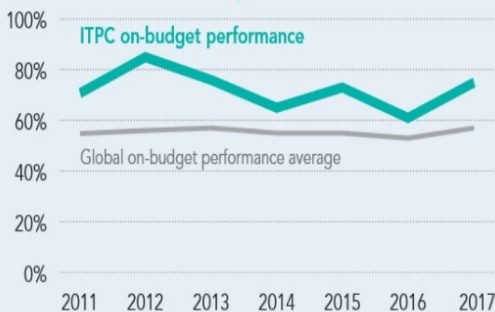
PROJECTS

The projects that AITS works on support cost reduction and labor efficiencies that are distributed through the University of Illinois System. AITS project work is governed by the Information Technology Priorities Committee (ITPC).

FY17 PROJECT HIGHLIGHTS

22 projects completed in FY17

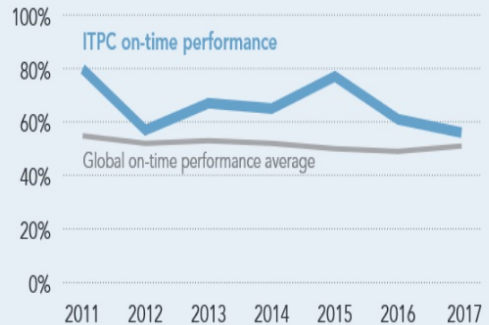
On-Budget Performance



ITPC projects consistently perform better than the global performance average as published in PMI's Pulse of the Profession.



On-Time Performance

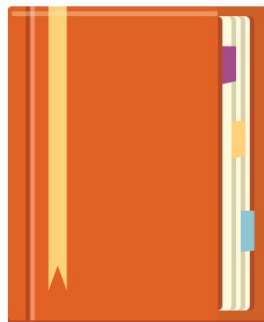
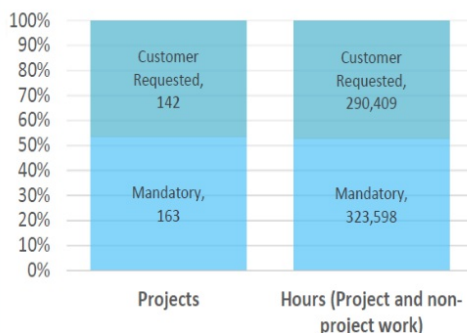


This is an analysis of Mandatory vs. Customer Requested Projects and Project Hours (ITPC and AITS Internal) from FY09-FY17. This information is current as of July 13, 2017.

MANDATORY VS. DISCRETIONARY

This analysis of total projects and project hours from FY09 through FY15 shows both projects and project hours are evenly split between customer requested and mandatory project work. This is a growth of mandatory hours in FY16 which has continued into FY17.

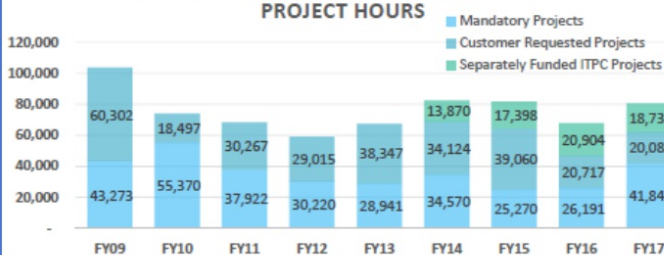
FY09 - FY17 SUMMARY



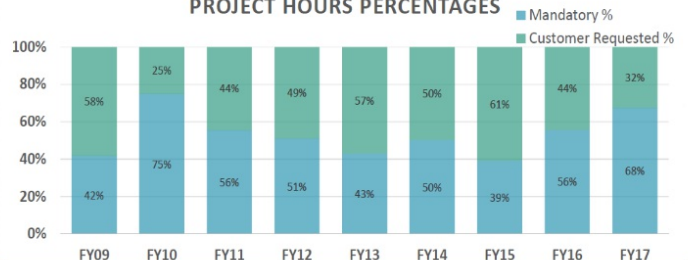
Mandatory and Customer requested projects completed by FY



MANDATORY AND CUSTOMER REQUESTED PROJECT HOURS



MANDATORY AND CUSTOMER REQUESTED PROJECT HOURS PERCENTAGES

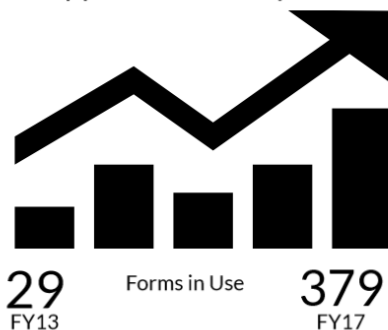


SERVICES

AITS offers technical services across the University of Illinois System. Services include support of shared applications and technical objects.

CONTACT US FOR THESE SERVICES

Growth of FormBuilder Applications in 5 years



710
Configuration Items Supported
(Applications, Modifications, etc)

12
mobile apps developed by AITS

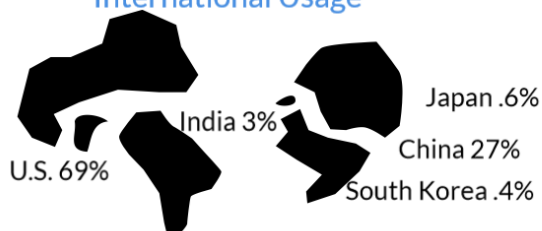
18 Million

Hits on the AITS Web Content Management System (WCMS)

1,073

Servers Supported

Mobile Application Use--UI Dining International Usage



500,000

Enterprise Messages Received and Delivered

Storage

1.5 Petabyte Backup
459 Terabyte

10,000 + Hours

Supporting non-AITS Systems

Over 2,500
Desktops Supported

IT Service Management

Change Management, Configuration Management, Project Management, Release Management

[Practices are based upon ITIL, CMMI, PMI methodologies]

Application Development

Utilizes SDLC based upon Agile and CMMI. Develop web, batch, mobile, reports, integrations and database apps.

Quality Assurance Testing

Automated, functional, regression, negative, and accessibility testing using HP UFT and HP ALM\Quality Center

Performance Testing

HP LoadRunner and IBM Rational Performance Tester to simulate loads of over 2500 concurrent users.

Vulnerability Scanning

IBM Rational Appscan
Number of Vulnerability Scans Run in FY17: 413

Security

Access Provisioning and Control
Security Engineering and Architecture
Audit and Compliance

Service Desk

- Only 24X7 SD at UI
- Tier 1 / 2 Support
- Production Monitoring
- Bomgar, Chat, email, and phone support
- UI Supported Knowledge Base and SDM Tool
- 27,170 Tickets in FY17

Data Warehousing

Business Intelligence
Dashboard Visualizations
EDW / Data Marts

Server Admin

AITS: 838
Co-Lo Linux: 47 (14 depts)
Co-Lo Solaris: 2
Co-Lo Windows: 186 (29 depts.)
TOTAL: 1,073

Database Admin

Number of Databases
Oracle: 371
SQL Server: 873

Application Administration

Number of Apps
Vended: 206
In-house: 434

Number of Integrations
Web Services: 111
SSO Integrations: 49
JMS objects: 137
Gateways: 29

Desktop / Video

Devices Supported:
2260 Machines
43 Buildings
30 Departments

Video Conferencing:
58 Conf. Rooms
31 Campus Depts.
2 External Orgs

Co-location Services

- ACCC
- Technology Services
- CPRD
- IPATHE
- UIC HPC (Campus Cluster)
- UIC Hospital
- UIF
- UIC College of Engineering
- UIC Computer Science
- UIC Bio-engineering
- Urbana DCSS
- UIC LAS
- UI Planning and Budgeting
- UIC Electrical Engineering
- UIC Computing Research
- UIC Psychology
- UIC LAS
- Illinois State University
- IDOT

UA

DCSS

Campuses

State

Inventory Control

- CA Configuration Management DB
- Full Asset tracking in Banner
- Annual Asset review

Monitoring

- Application – SiteScope (436 monitors)
- Server – WhatsUp (2306 monitors) / Unimon
- ORCA – 86 Solaris servers
- Systems - Siteman(109 monitors)
- Network – WhatsUp

Backup / Disaster Recovery

- Backup over 1 Petabyte
- Netbackup Application
- Quantum LT05 Tapes
- Secondary production copy vaulted at HAB
- Annual BCP/DR testing

Physical Security

- Multi-Factor + Key Card
- Quarterly Access Review
- Video Surveillance (68 cameras 5 DVRs)
- Alarm systems
- Independent Security Administration

Connectivity

- Redundant ICCN and BGP ISP feeds
- 10 gigabit campus backbone
- 10 gigabit data center network
- 10 gigabit DWDM Peering b/ RRB and HAB
- Redundant server load balancing

Storage / SAN

- EMC VNX Series
- 459 TB configured storage
- CISCO fibre channel
- Automated Tier Management

Tier 1 (Flash)
High Performance
Tier 2 (SAS)
Performance
Tier 3 (NL-SAS)
Capacity

RRB
Chicago

Tier 3 Data Center
Space: 11,203 ft²

AITs Enterprise Infrastructure Services

HAB
Urbana

Tier 2 Data Center
Space: 4,080 ft²

FINANCIAL

AITS strives to serve the University of Illinois System by being outstanding stewards of its financial resources. AITS uses Activity Based Costing to evaluate costs for each service.

SUPPORT OF OUR CORE PROCESSES

The projects that AITS works on support cost reduction and labor efficiencies that are distributed throughout the universities, colleges, and departments of the University of Illinois System.

	FTE Cost	Non-Labor Costs	Total Cost
Business Process Improvement	\$310,787	\$56	\$310,843
Collaboration tools	\$56,048	\$0	\$56,048
Compliance	\$295,004	\$20,951	\$315,956
Database Customer Services (Consulting)	\$339,963	\$0	\$339,963
Customer Training	\$64,959	\$1,230	\$66,188
Data Visualization	\$309,618	\$0	\$309,618
Centralized Desktop Support	\$1,409,788	\$91,115	\$1,500,902
Enterprise System Support	\$2,741,668	\$543,703	\$3,285,370
Enterprise System Research Administration	\$1,023,878	\$1,187,060	\$2,210,938
Enterprise System Finance Applications	\$1,617,382	\$1,164,059	\$2,781,441
Enterprise System HR Applications	\$2,557,654	\$1,108,360	\$3,666,014
Enterprise System Student Applications	\$2,287,510	\$1,189,549	\$3,477,059
Enterprise System Capital Programs	\$408,056	\$119,909	\$527,965
Enterprise System Mobile Applications	\$220,928	\$45,205	\$266,133
Identity and Access Management	\$1,572,513	\$1,691,907	\$3,264,420
Mobile Applications (Consulting)	\$182,369	\$0	\$182,369
Enterprise Data and Reports	\$2,122,934	\$718,470	\$2,841,405
Records and Information Management System	\$46,822	\$0	\$46,822
Security	\$130,737	\$0	\$130,737
Enterprise Class Storage/Backup Services	\$222,984	\$76,650	\$299,633
Server Support Services (Maint & Consulting)	\$24,050	\$76,650	\$100,700
Workflow Development (Consulting)	\$225,543	\$0	\$225,543
Application System Support	\$251,130	\$0	\$251,130
Security Provisioning	\$247,448	\$0	\$247,448
Data Center Management / Co Location Services	\$222,353	\$144,760	\$367,112
UI Ready (Kuali)	\$125,071	\$104,756	\$229,827
Video Bridge Conferencing (Consulting)	\$136,881	\$127,111	\$263,992
Web Services (Consulting)	\$12,494	\$0	\$12,494
Projects and Portfolio Management (Consulting)	\$205,999	\$0	\$205,999
Web Services Infrastructure	\$17,270	\$0	\$17,270
Enterprise Integrations	\$181,066	\$0	\$181,066

TOTAL AITS FY2016 Activity Based Costing **\$19,570,907** **\$8,411,498** **\$27,982,405**



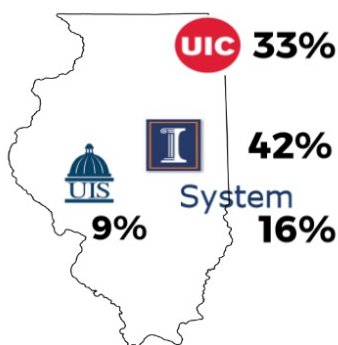
\$1 million

Compared to FY15 Total Cost of approximately \$29 million

Cost AITS incurs in support of enterprise systems at University of Illinois Systems

91%

compared to 85% in FY16



CUSTOMER RESOURCE UTILIZATION

SUMMARY

This chart represents the AITS metrics in a 5 year snapshot. It also shows information about trends when information is available.

Category	Metric	Prior FY (2016)	This FY (2017)	% Change	5 Year Trend
Reliability	Banner and Related Systems Availability	100%	100%	0%	
Customer Service	Banner Self-Service Usage	9,042,769	-	-100%	
Customer Service	Banner-Courses Completed	703,000	716,600	2%	
Customer Service	Banner-Financial Aid Disbursements	535,600	547,800	2%	
Customer Service	Banner-Registration Record Transactions	12,823,000	12,127,000	-5%	
Customer Service	Banner-Regular Payroll Transactions	887,800	874,300	-2%	
Customer Service	Banner-Student Application Transactions	303,000	301,500	0%	
Customer Service	BI/DW Training (Attendees)	389	282	-28%	
Customer Service	EDDIE Sessions	3,138,555	2,638,555	-16%	
Customer Service	eProcurement Transactions (iBuy)	158,600	157,600	-1%	
Customer Service	HR Front End Transactions (HRFE)	136,700	142,600	4%	
Customer Service	IAM People who have set recovery options	-	187,314		
Customer Service	IAM Self Service Passwords Set	-	251,600		
Customer Service	KnowledgeBase Use-All KBs	2,772,750	3,479,320	25%	
Customer Service	Security Requests-SECAPP Requests	29,668	32,107	8%	
Customer Service	Security Requests-Service Desk Tickets	562	401	-29%	
Customer Service	SitePublish PageViews	-	18,364,698		
Customer Service	Start myResearch Awards	-	4,171		
Customer Service	Start myResearch Proposals Submitted	-	6,809		
Customer Service	Training (BPI and PMO)	-	1,920		
Customer Service	Travel & Expense Reimbursements (TEM)	244,400	254,800	4%	
Customer Service	Websites Supported	49	55	12%	
Services	FormBuilder Forms in Use	427	576	35%	
Infrastructure	Active Databases	1,226	1,164	-5%	
Infrastructure	Change Requests-Banner Infrastructure Impacted	672	512	-24%	
Infrastructure	Change Requests-Non-Banner Infrastructure Impacted	9,814	9,416	-4%	
Infrastructure	Configuration Items (CI) Supported	688	710	3%	
Infrastructure	Data Center Allocated Configured Capacity in TI	474	526	11%	
Infrastructure	Data Center Back Up Storage	1,782	1,546	-13%	
Infrastructure	Labeled "Not Successful" Change Requests	48	38	-21%	
Infrastructure	Security Blocks	-	16,000,000		
Infrastructure	Total Change Requests	2,065	1,757	-15%	

The background of the entire page is a complex network diagram. It consists of numerous small, colored circles (nodes) in shades of blue, purple, orange, green, and black, connected by thin, dark grey lines. The nodes are scattered across the page, with some clusters and many isolated points, creating a web-like structure.

MORE INFORMATION

www.aitis.uillinois.edu

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

www.uillinois.edu/cio

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

WANT TO GET INVOLVED?

AITIS believes it is important for the
system'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!