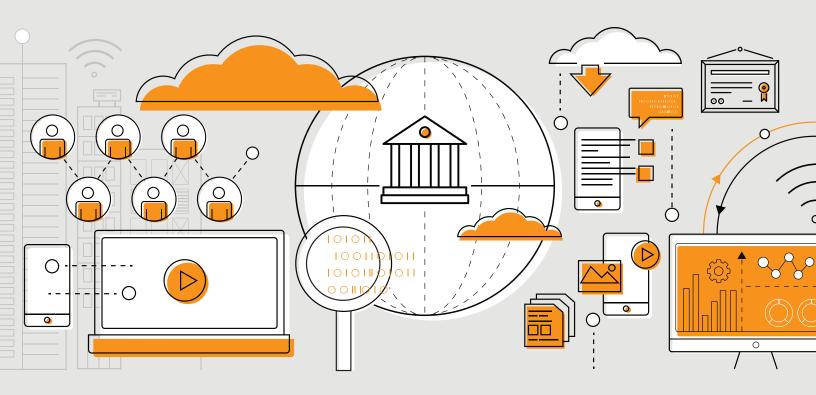
The 26th National Survey of Computing and Information Technology in American Higher Education

Kenneth C. Green





# The 26<sup>th</sup> National Survey of Computing and Information Technology in American Higher Education

Kenneth C. Green

December, 2015

## **THE CAMPUS COMPUTING PROJECT**

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# THE CAMPUS COMPUTING PROJECT

Begun in 1990, The Campus Computing Project is the largest continuing study of the role of computing and information technology in American higher education.

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Additional information about The Campus Computing Project is available on the World Wide Web at: campuscomputing.net.

Past (out-of-print) editions of the annual Campus Computing Survey Report (1990-2002) are available on microfiche from the ERIC Clearinghouse Service sponsored by the US Department of Education. Please check the ERIC web site: www.eric.ed.gov

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# The 26th National Survey of Computing and Information Technology in American Higher Education

## **Table of Contents**

I.	Campus Computing 2015 — Executive Summary	3
II.	Campus Computing 2015 — Summary Graphics	5
III.	Campus Computing 2015 — Summary Data	22





# THE CAMPUS COMPUTING PROJECT

campuscomputing.net October 2015

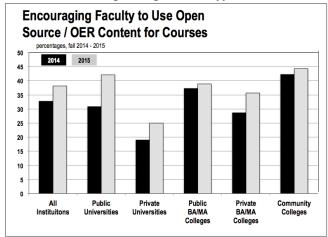
The 2015 National Survey of eLearning and Information Technology in US Higher Education

## Great Faith in the Instructional Benefits of Digital Technologies; Great Expectations for the Rising Use of OER

New data from the 2015 Campus Computing Survey reveal that college and university CIOs and senior IT officers believe that digital technologies do (or will) have a significant impact on student learning and outcomes. Almost all (94 percent) of the fall 2015 survey participants, who represent 417 two- and four-year public and private colleges and universities, agree or strongly agree that "digital curricular resources make learning more efficient and effective for students." Similarly, most (87 percent) report that "digital curricular resources provide a richer and more personalized learning experience than traditional print materials." Finally, the survey participants also overwhelmingly agree (96 percent) that "adaptive learning technology has great potential to improve learning outcomes for students." Across all segments and sectors, from community colleges to research universities, the numbers expressing support for the benefits of digital resources are very high on these three survey items.

Yet even as CIOs express great confidence about the impact and benefit of digital curricular resources, the current deployment numbers are low: survey participants estimate that just a tenth (10 percent) of general education courses make use of educational courseware, and just 4 percent of developmental and general education classes utilize adaptive learning technologies.

"This strong statement of support for digital instructional resources is not surprising," says Kenneth C. Green, founding director of the Campus Computing Survey, which marks its 25 anniversary this fall. "CIOs and senior campus IT officers are, understandably, advocates for the instructional use of technology at their institutions. Although faculty make decisions about curricular resources for their courses, CIOs are responsible for the enabling infrastructure, including training and user support."



Yet Green notes that clear and compelling evidence about the benefit of technology in instruction and the impact of IT on learning outcomes can be problematic. For example, the survey data reveal that just a fifth of the institutions that participated in the 2015 survey "have a formal program to assess the impact of IT on instruction and learning outcomes." Consequently, says Green,

"decisions about IT in instruction are often fueled by good intentions, anecdotal data, opinion, and epiphany as opposed to research and hard evidence." Green cites the continuing discussion about Learning Management Systems as an example: "Is the LMS just a platform that supports instruction or does the LMS – or a specific LMS platform – actually have a clear and discrete benefit on learning outcomes? Fully 15 years after many campuses first deployed a LMS, we really don't have good data to provide a clear answer to this question."

#### The Coming of OER

Related to the enthusiasm for digital instructional resources, four-fifths (81 percent) of the survey participants agree that "Open Source textbooks/Open Education Resource (OER) content "will be an important source for instructional resources in five years." Advocates believe that OER titles, which are typically distributed to students in a digital format, offer a viable, very low cost alternative to expensive textbooks.

While the 2015 survey data indicate that OER utilization levels are currently low (just 6 percent of courses), fully two-fifths (38 percent) of the survey participants report that their institution encourages faculty to use OER content, up from a third (33 percent) in fall 2014.

"The emerging OER movement may offer a viable alternative to commercial textbooks and course content," says Green. Yet he expresses some concern about the absence of infrastructure to support OER – the editors, fact-checkers, instructional designers and others who add value, as well as costs, to the development of commercial textbooks and course materials. Too, Green notes that many faculty depend on book updates as well as the ancillaries such as class presentation materials, test sets, and supporting web sites routinely provided by commercial publishers. While the immediate "text to text" comparisons may be favorable for OER, Green notes that "looming issues for the OER movement are the review process, ancillaries, and updates that many faculty have come to expect, even if the cost of these resources and services are paid by students when they purchase commercial titles."

#### **Top Five Campus IT Priorities Over the Next Two-Three Years, Fall 2015** 1. Assisting faculty integrate · Only 17% recognize instructional IT activity as technology into instruction (80%) part of faculty review/promotion process 74% report IT salaries are not competitive 26% reduced IT staffing 2. Hiring / retaining qualified IT staff (78%) . 18% cut funds for profes User support overrated: 56% excellent?? 3. Providing adequate user IT training for faculty: just 27% excellent?? IT training for students: just 10% excellent?? support (78%) 4. Upgrading / enhancing network · 46% experienced an attack on the campus vork in the past year (over 60% in univ.) and data security (76%) 50% increased spending on IT security Only 21% assess impact of IT on instruction 5. Leveraging IT resources to Just 27% report IT investments in analytics are support student success (74%) "very effective"

#### Campus IT Priorities

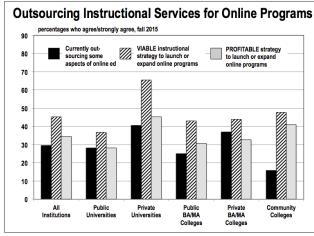
Again this fall, CIOs and senior campus IT officers identified "assisting faculty with the instructional integration of information technology" (80 percent) as the their top institutional IT priority over the next two-three years, followed by hiring and retaining qualified IT staff and providing adequate user support (both at 78 percent). Network and data security was fourth in the fall 2015 survey (76 percent), followed by "leveraging IT for student success, which dropped to fifth in 2015 from fourth in 2014 (74 percent).

"Viewed in aggregate, these data document the continuing challenges that CIOs and senior IT officers confront, and that faculty and students experience," says Green. Moreover these priorities stand in stark contrast to some of the related survey data on these issues. For example, even as instructional integration is the top institutional IT priority again this fall, less than a fifth of campuses (17 percent) recognize instructional IT efforts as part of the faculty review and promotion process.

Similarly, although IT officers express concern about hiring and retaining qualified technology staff, three-fourths report that that salaries and benefits for tech staff at their institutions are not competitive with off-campus job opportunities. Moreover, a fifth of campuses cut funding for professional development for IT staff this past year, and a fourth reduced central IT staffing. And although IT user support is a perennial concern, only a fourth (27 percent) of CIOs and senior IT officers rate IT training for faculty and staff as excellent at their institution, while just a tenth (10 percent) believe that their campus offers excellent IT training for students.

#### **Outsourcing Online Programs**

In aggregate three-in-ten (29 percent) of the institutions participating in the 2015 survey report outsourcing their online programs, about the same as in 2014 and up from 23 percent in fall 2013. The outsourcing numbers range from 41 percent in private universities to 16 percent in community colleges. However, CIOs and senior campus IT officers are not upbeat about outsourcing: just 45 percent view outsourcing as a viable instructional strategy for their institution's online efforts and only a third (34 percent) believe that outsourcing provides a profitable revenue strategy for online programs. The clear exception to these low numbers is in private universities, where two-thirds (65 percent) of CIOs and senior IT officers agree that outsourcing online programs is a viable academic strategy and more than two-fifths (45 percent) believe outsourcing also provides a viable revenue strategy.



#### Going Mobile

The 2015 survey documents the continuing campus movement to mobile. More than four-fifths (84 percent) of the institutions participating in this year's survey have activated mobile apps or will do so in the coming academic year, compared to 78 percent in 2013, 60 percent in fall 2012, 42 percent in fall 2011, and 23 percent in fall 2010. Across sectors, private universities lead the mobile movement: 99 percent will be up on mobile apps by the end of the current academic year, followed by 92 percent of public

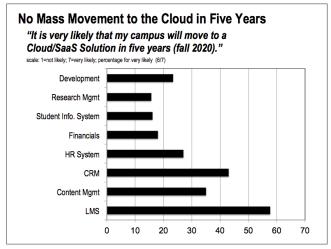
universities and public BA/MA colleges, 79 percent of community colleges, and 73 percent of private BA/MA institutions.

What explains these gains in going mobile? "Colleges and universities continue to play catch-up with the consumer experience. Students of all ages come to campus with their smartphones and tablets expecting to use mobile apps to navigate campus resources and use campus services," says Green.

Interestingly, although CIOs and senior IT officers representing 70 percent of the institutions that participated fall 2015 survey identify "implementing/supporting mobile computing" as a top institutional IT priority over the next two-three years, less than a fifth (17 percent) rate mobile services at their institution as "excellent," about the same as in 2014.

#### Small Gains in Cloud Computing

The proportion of campuses reporting a strategic plan for Cloud computing rose to 33 percent in fall 2015, up from 29 percent last year, 21 percent in 2011, and 9 percent in 2009. Just 12 percent of the survey participants report that their campus has moved or is converting to Cloud Computing for ERP (administrative) services, compared to 9 percent last year, 6 percent in 2012, and up from 4 percent in 2011 (range: from 22 percent for private universities to 4 percent for public universities.) Almost a third (30 percent) appear convinced that Cloud computing is no more secure than their own, on-campus management of technology and data. And less than a fifth of institutions expect to be running mission-critical finance and student information systems on the Cloud by fall 2020.



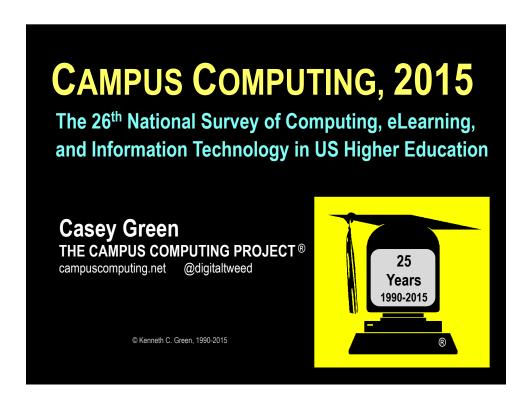
The 2015 Campus Computing Survey is based on data provided by senior campus IT officials, typically, the CIO, CTO, or other senior campus IT officer, representing 417 two- and four-year public and private/non-profit colleges and universities across the United States. Survey respondents completed the online questionnaire from September 17 through October 22. PDF copies of the 2015 Campus Computing Survey will be available on December 10th from The Campus Computing Project in Encino, CA (campuscomputing.net). Price: \$45, which includes shipping to US addresses.

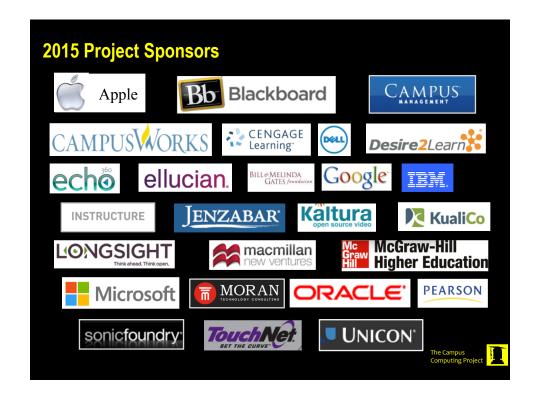
#### THE CAMPUS COMPUTING PROJECT

Begun 1990, The Campus Computing Project is the largest continuing study of the role of computing, eLearning, and information technology in American higher education. The project's national studies draw on qualitative and quantitative data to help inform campus IT leaders, college faculty and administrators, policy-makers, and others interested in a wide array of information technology planning and policy issues that affect colleges and universities.

The 2015 Campus Computing Survey was supported, in part, by the following project sponsors: Apple, Blackboard, Campus Management, CampusWorks, Canvas by Instructure, Cengage Learning, Dell, Desire2Learn, Echo360, Ellucian, The Bill & Melina Gates Foundation, Google, IBM Higher Education, Jenzabar, Kaltura, Longsight, Macmillian New Ventures, McGraw-Hill Higher Education, Microsoft, Moran Technology Consulting, Oracle, Pearson, rSmart Group, Sonic Foundry, TouchNet Information Systems, and Unicon,

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Casey Green • The Campus Computing Project

# Methodology

- 417 institutional participants
- Web-based data collection
- Survey period: Sept. 17 Oct. 21
- 75 pct. of the 2015 participating colleges and universities also completed the 2014 survey





2015 Survey Participants			
Category	Dept of Ed N (adjusted)	Survey N	Participation Rate (%.)
Public Research & Doctoral Universities	168	57	34%
Private Research & Doctoral Universities	92	32	35%
Public 4-Year Colleges (Baccalaureate & Masters)	374	72	19%
Private 4-Year Colleges (Baccalaureate & Masters)	824	168	20%
Associate Degree/ Public Community Colleges	1018	88	9%
			The Campus Computing Project



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## 2015 Highlights

- Top IT priorities focus on instruction, staffing, user support, advancing the campus completion agenda, and IT security.
- Big differences in the CIO assessments of the things we do/provide vs. the things we buy.
- Great faith in the benefits of adaptive learning and digital curricular resources.
- Slow transition to the Cloud continues; Cloud security is a big concern for a significant minority.
- Rising institutional support for Open Educational Resources.

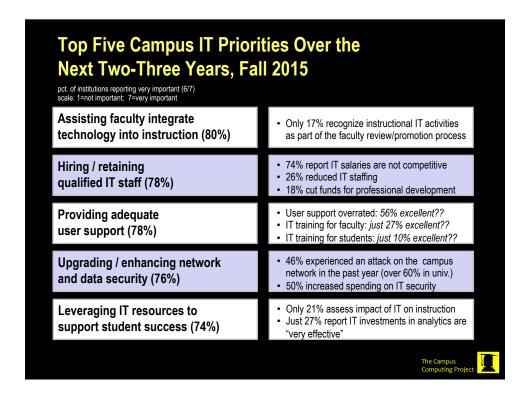


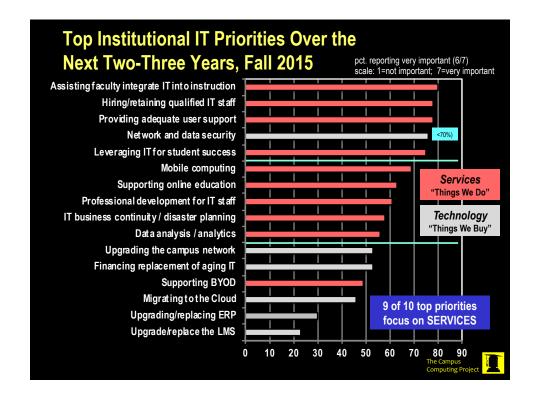


# New Survey Items for 2015

	Pct. Agree
We have a difficult time retaining IT talent because our salaries and benefits are not competitive with off-campus job opportunities.	74
Digital curricular resources make learning more efficient and effective for students.	94
Adaptive learning technology has great potential to improve learning outcomes for students.	96
Third party Cloud Services (Amazon, Google, IBM, Microsoft) services (Amazon, Google, IBM, Microsoft) are an important part of our campus plan to offer high performance computing services.	69







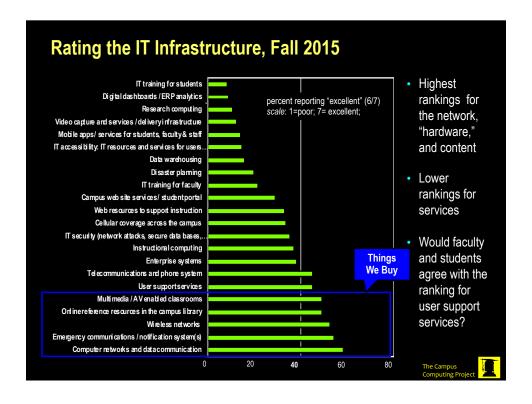


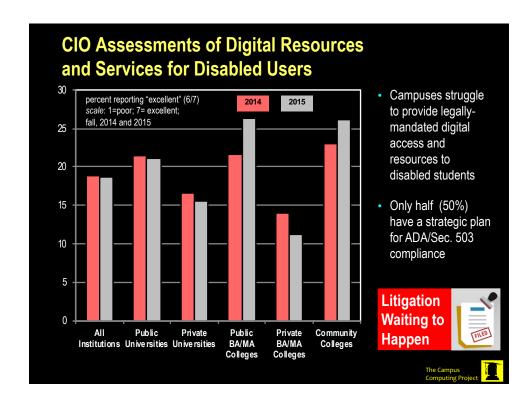
# CAMPUS COMPUTING, 2015 Casey Green • The Campus Computing Project

All Campuses	Public Universities	Private Universities	Public BA/MA Colleges	Private BA/MA Colleges	Community Colleges
Assisting Faculty Integrate IT into Instruction (81%)	Hiring/Retaining Qualified IT Staff (80%)	Hiring/Retaining Qualified IT Staff (87%)	Leveraging IT Resources for Student Success (90%)	Assisting Faculty Integrate IT into Instruction (81%)	Providing Adequate User Support (83%)
Hiring/Retaining Qualified IT Staff and IT User Support (78%)	Leveraging IT Resources for Student Success (79%)	Assisting Faculty Integrate IT into Instruction and IT Security (81%)	Assisting Faculty Integrate IT into Instruction (88%)	Network and Data Security (77%)	Mobile Computing and Online Courses (78%)
Network and Data Security (76%)	Providing Adequate User Support (77%)	Providing Adequate User Support (78%)	IT Staffing and User Support (85%)	IT Staffing and User Support (74%)	Hiring/Retaining Qualified IT Staff (77%)

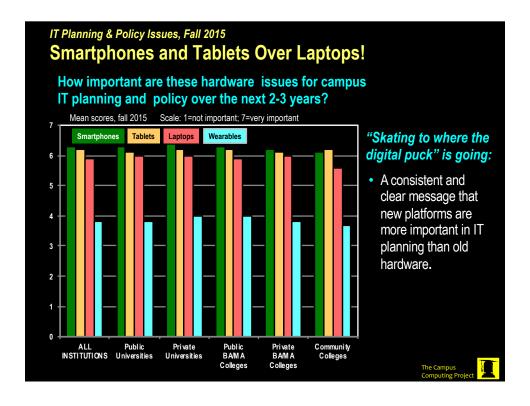
CIOs Have Great Faith in T Digital Technologies for In		
	ol. Agree	
Digital curricular resources make learning more efficient and effective for students.	94%	<ul> <li>Only 10% of general education classes use</li> </ul>
Digital curricular resources provide a richer and more personalized learning experience than print materials.	87%	<ul> <li>Just 4% of developmental and general ed. courses</li> </ul>
Adaptive learning technology has great potential to improve learning outcomes for students.	96%	use adaptive learning technologies
		The Campus Computing Project

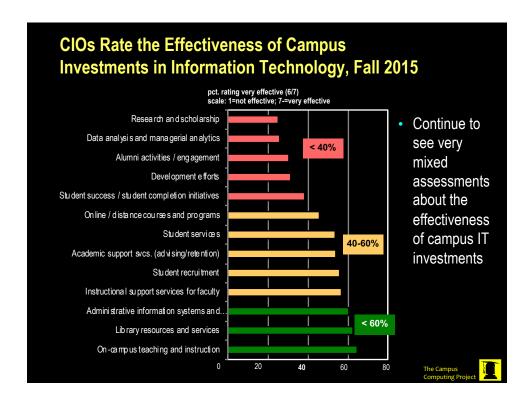




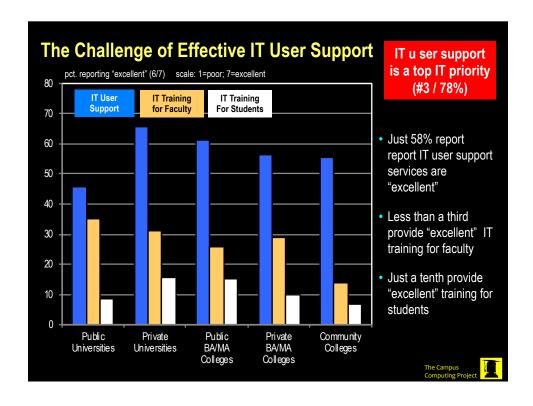


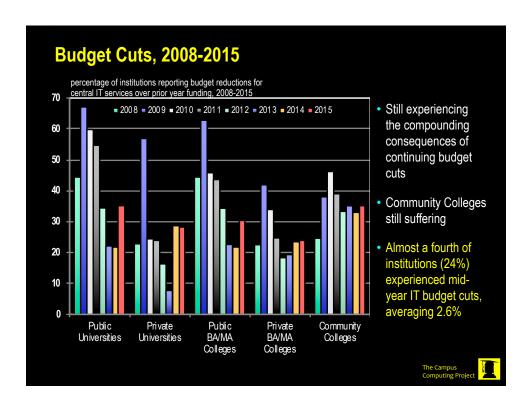






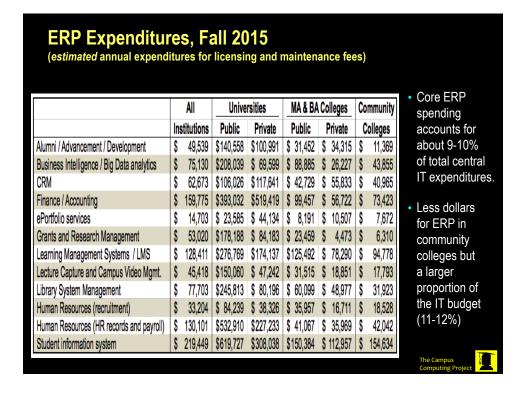




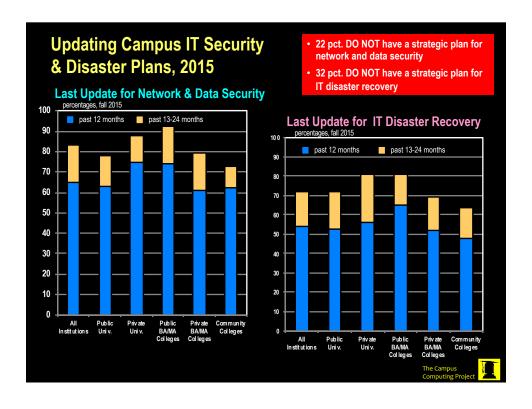


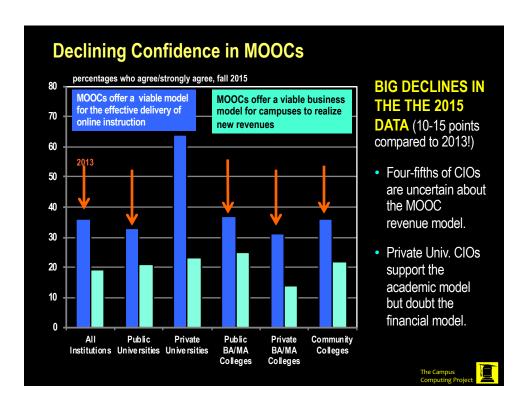


Budget Cuts vs. Budget Gains, Fall 2015								
percentage of institutions reporting budget increases or cuts, by budget category, fall 2015	Increase	Decrease	<ul> <li>Investing in wireless,</li> </ul>					
Total Budget, Central IT	36.2	29.3	security, cloud, mobility & analytics					
Wireless Networks	50.6	5.5 🔱	Reduced spending in					
User Training and Support	18.4	12.0 🔱	public labs and for					
ERP Software and Services	41.3	4.8	replacement hardware					
Mobile Computing Resources	34.3	4.6	Student lab computer					
IT Security Issues and Resources	50.1	3.8	replacement cycle					
Cloud Computing	38.4	4.3	now 4-5 years (69%) vs. 2-3 years (55%) in					
Professional Development	22.3	19.5	2008					
Business Analytics	35.3	6.1						
▲Big gain in 2015			The Campus Computing Project					

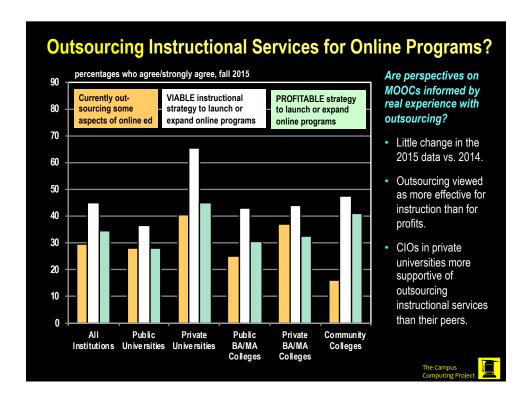


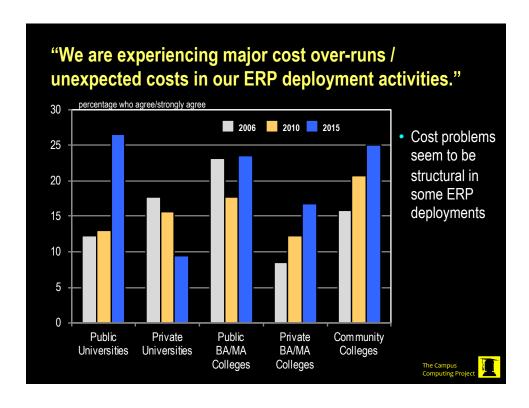




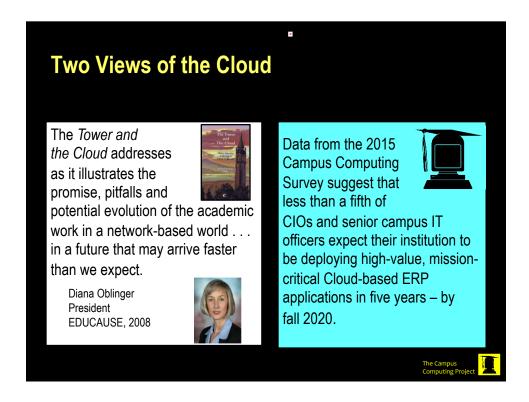


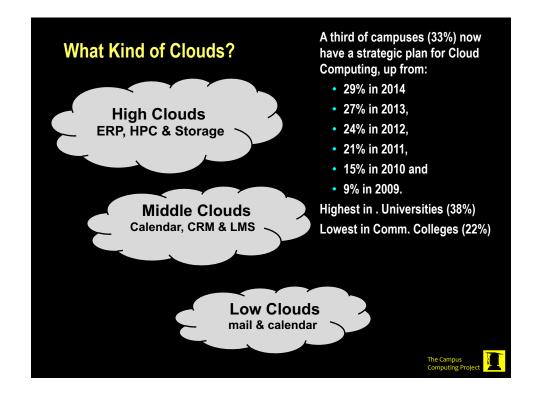




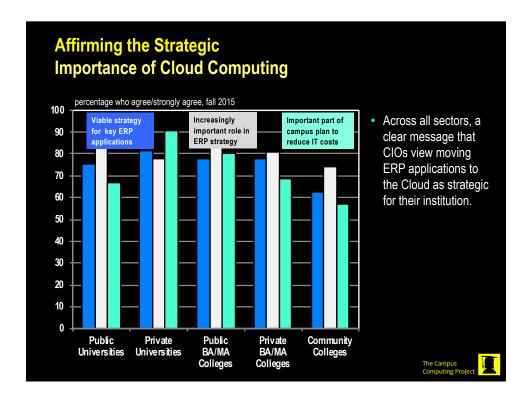


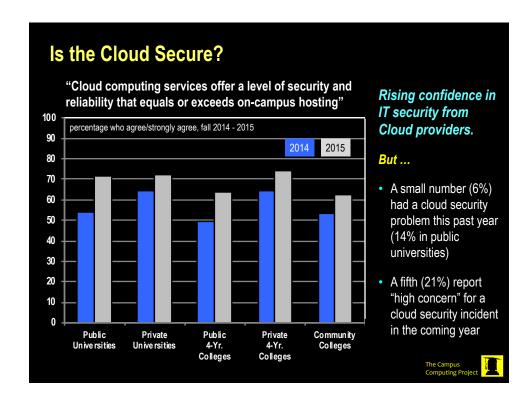




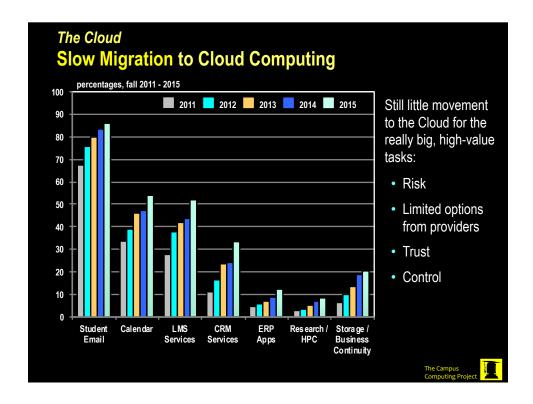


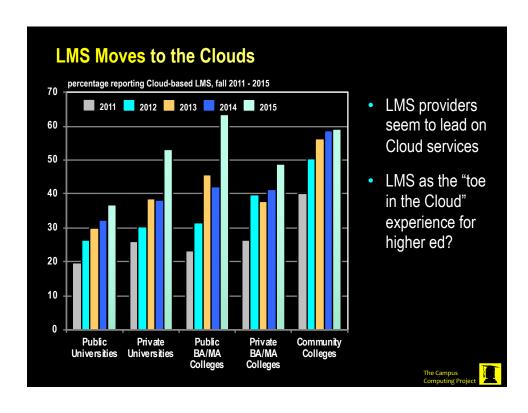




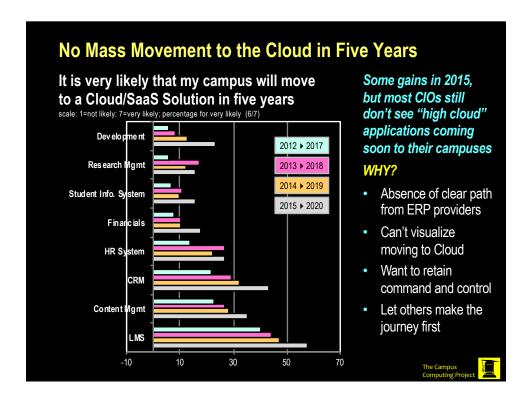


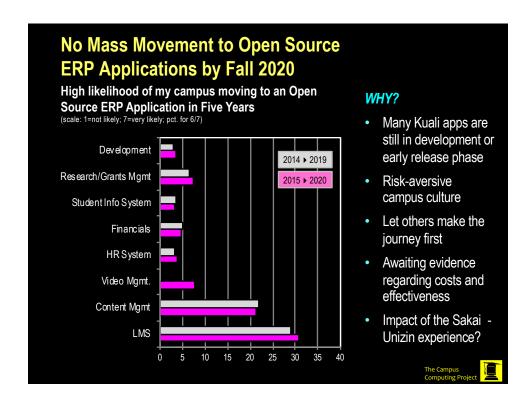




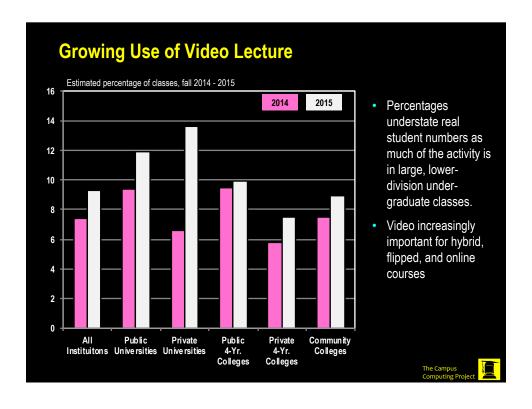


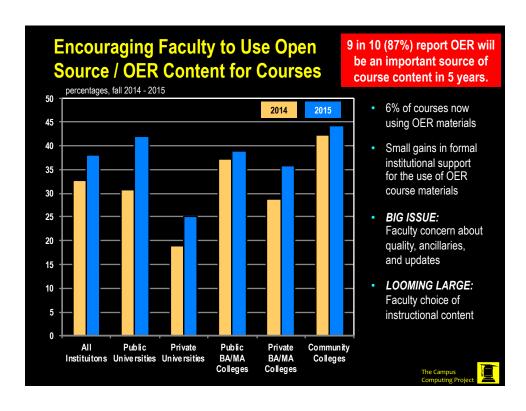




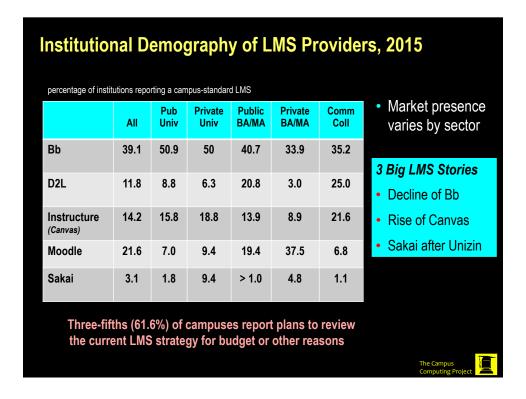


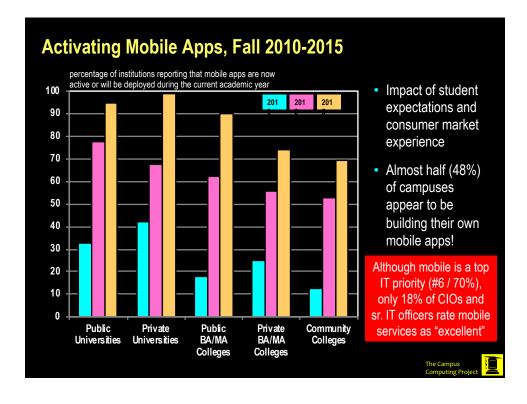














	All	Universities MA & BA C	Universities MA & BA College	MA & BA Colleges		
	Institutions	Public	Private	Public	Private	Community Colleges
Number of Institutions	417	57	32	72	168	88
GENERAL CAMPUS POLICIES						
Does your institution have a written policy / code of conduct / acceptable or						
appropriate use policy for: (percentages)  Campus-hosted individual / personal Web pages?	05.0	70.7	71.0	00.0	C4.4	50.4
Fair use of copyrighted content (books, articles, etc.)?	65.3 93.5	73.7 100.0	71.9 90.6	66.2 93.0	64.1 93.4	59.1 90.9
Student use of social networking sites (Facebook, Twitter, etc.)?	37.1	28.1	40.6	25.4	44.9	36.4
Students to record (audio / video) class lectures	37.1	20.1	40.0	25.4	44.9	30.4
presentations, and discussions?	12.3	15.8	9.4	15.5	12.6	8.0
Does your institution have a special computer use / technology fee or						
annual / term computer use charge for all students? (percentages)	57.2	73.7	34.4	77.8	40.7	69.3
Average total annual (full-time) student fee or charge for A/Y 2015-16	\$ 245	\$ 223	\$ 405	\$ 184	\$ 357	\$ 163
Does your institution require or strongly recommend: (percentages)						
Computers or laptops for all undergraduate students						
No	46.6	52.6	25.0	47.2	27.0	87.5
Recommend	44.7	40.4	59.4	40.3	62.3	12.5
Require	8.7	7.0	15.6	12.5	10.8	
Computers or laptops for undergraduates in specific disciplines	-					
or academic programs						
No	41.6	26.3	18.8	34.7	37.7	72.7
Recommend	36.1	33.3	53.1	38.9	43.1	15.9
Require	22.4	40.4	28.1	26.4	19.2	11.4
Tablet devices (Android, Apple, or Microsoft-based) for all students	22.7	70.7	20.1	20.4	10.2	11.7
No	88.0	93.0	90.6	80.6	88.0	89.8
Recommend	10.1	7.0	9.4	18.1	8.4	9.1
Require	1.9	-	-	1.4	3.6	1.1
Tablet devices for students in specific disciplines or academic programs						
No , , , , , , , , , , , , , , , , , , ,	68.0	59.7	65.6	59.7	71.3	75.0
Recommend	18.3	19.3	15.6	23.6	16.8	17.1
Require	13.7	21.1	18.8	16.7	12.0	8.0
As you think about institutional priorities for IT resources and services over t	he next three					
years, how do you rate the importance of the following IT issues?	ile liext tillee					
percent "very important" (scale 6 / 7); scale: 1=not important; 7=very important						
Assisting faculty integrate technology into instruction	80.3	75.0	81.3	86.1	81.5	76.1
Hiring / retaining qualified IT staff	78.4	80.4	87.5	84.7	73.8	77.3
Providing adequate user support	78.4	76.8	78.1	84.7	73.8	83.0
Upgrading / enhancing network and data security	75.7	71.4	81.3	80.6	76.8	70.5
Leveraging IT resources and services to advance						
the student success / student completion priorities of my institution	74.5	78.6	65.6	90.3	67.3	76.1
Implementing / supporting mobile computing	69.5	66.1	75.0	77.8	61.3	78.4
Supporting online / distance education courses and programs	63.5	75.0	62.5	76.4	46.4	78.4
Professional development for IT personnel (IT staff and senior IT officers)	61.1	57.1	56.3	72.2	60.1	58.0
IT business continuity / IT disaster planning and recovery	58.4	55.4	43.8	63.9	58.3	61.4
Data analysis / learning and managerial analytics	55.8	58.9	59.4	59.7	54.2	52.3
Upgrading / replacing the campus network	53.4	60.7	50.0	62.5	48.8	51.1
Financing the replacement of aging hardware / software	53.1	55.4	40.6	52.8	51.2	60.2
Supporting / managing BYOD (Bring Your Own Device)	49.5	46.4	37.5	51.4	46.4	60.2
Migrating to Cloud computing	45.9	53.6	59.4	55.6	44.0	31.8
Upgrading / replacing administrative IT / ERP systems	30.0	26.8	28.1	34.7	29.2	30.7
Shared services / IT collaboration with other institutions	29.8	35.7	12.5	41.7	25.0	31.8
Upgrading / replacing the current campus Learning Mgmt System (LMS)	24.3	33.9	18.8	31.9	22.0	18.2
Digital content management	23.8	23.2	18.8	26.4	23.2	25.0
Using / leveraging social media as a resource for instruction	17.3	19.6	6.3	19.4	13.1	26.1

	All	Univers	sities	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
Has your institution established a specific single product standard for any of	the following					
(i.e., your campus supports only one product or application)? (percentages)	•					
Course / learning management system						
No	5.5	14.0	6.3	2.8	4.2	4.6
Blackboard (including Angel)	39.1	50.9	50.0	41.7	33.9	35.2
CampusCruiser	-	-	-	-	-	-
Desire2Learn	11.8	8.8	6.3	20.8	3.0	25.0
eCollege	1.0	-	-	-	1.2	2.3
Google Classroom	-	-	-	-	-	-
Instructure (Canvas)	14.2	15.8	18.8	13.9	8.9	21.6
Jenzabar	1.7	-	-	-	4.2	-
Moodle	21.6	7.0	9.4	19.4	37.5	6.8
Sakai	3.1	1.8	9.4	-	4.8	1.1
Other	2.2	1.8	-	1.4	2.4	3.4
Lecture capture system						
No	41.0	29.8	18.8	27.8	53.0	44.3
Brightcove	0.2	-	-	-	-	1.1
Desire2Learn	0.7	-	3.1	1.4	0.6	-
Echo360	11.0	26.3	40.6	13.9	4.2	1.1
Kaltura	6.2	5.3	6.3	8.3	5.4	6.8
Matterhorn	0.2	-	-	1.4	-	_
Mediacore	0.7		_	-	1.8	
Panopto	14.2	12.3	18.8	11.1	13.7	17.1
Polycom	0.2	-	-	-	0.6	_
Sharestream	0.2	-	_	_	0.6	_
Sonic Foundry (Mediasite)	5.5	7.0	12.5	8.3	4.8	1.1
TechSmith (Camtasia)	7.4	5.3	-	12.5	5.4	11.4
Tegrity	5.3	8.8	_	4.2	6.0	4.6
Vbrick	0.2	-	_	-	-	1.1
Other	6.7	5.3	_	11.1	4.2	11.4
	+	0.0				
As of Fall 2015, has your institution activated mobile apps (or mobile interface	es) for					
rampus resources and services? (percentages)					440	40.
No	9.6	3.5	-	2.8	14.9	12.5
Yes	75.8	87.7	93.8	88.9	66.7	68.2
Planned for later this academic year (2015-16)	6.7	7.0	6.3	1.4	6.6	11.4
Currently under review	7.9	1.8	-	6.9	11.9	8.0
Current / anticipated Mobile App Provider:						
Blackboard	28.3	45.6	28.1	38.9	22.0	20.5
CampusCruiser	0.2	-	-	-	0.6	-
Campus Management	0.5	-	-	-	1.2	-
Desire2Learn	4.8	1.8	6.3	9.7	2.4	6.8
eCollege	0.7	-	-	-	1.2	1.1
Ellucian Mobile	29.3	22.8	28.1	27.8	29.2	35.2
Instructure	6.2	10.5	6.3	4.2	4.8	8.0
Jenzabar	8.4	-	3.1	1.4	15.5	8.0
Kauli	-	-	-	-	-	-
Moodlerooms	2.4	1.8	-	-	5.4	-
Oracle	1.4	1.8	3.1	4.2	0.6	-
uMobile	1.0	1.8	-	-	1.2	1.1
Other	48.0	54.4	62.5	52.8	43.5	43.2
ISES OF INFORMATION TECHNOLOGY						
iey IT Issues (percentage who agree/strongly agree)						
Faculty have unreasonable expectations about user support services.	42.0	22.2	43.8	44.4	117	45.5
·	42.0	33.3	43.8	44.4	41.7	45.3
We are experiencing major cost over-runs / unexpected costs in	00.4	00.0	2.4	00.0	40 7	05.
our ERP deployment activities.	20.4	26.3	9.4	23.6	16.7	25.0
Cloud computing offers a viable strategy for key campus ERP applications.	74.6	75.4	81.3	77.8	78.0	62.5
Cloud computing will play an increasingly important role				20.0	24.5	
in our campus ERP strategy.	79.9	82.5	78.1	83.3	81.0	73.9

	All	Univer	Universities MA & BA Colleges		MA & BA Colleges		olleges Comm	Community
	Institutions	Public	Private	Public	Private	Colleges		
Key IT Issues continued (percentage who agree/strongly agree)								
Cloud computing is an important part of our campus technology								
plan to reduce IT costs	69.5	66.7	90.6	80.6	68.5	56.8		
Cloud computing services offer a level of data reliability and security that								
equals or exceeds the level of security and reliability we can								
can provide with on-campus hosting.	69.5	71.9	71.9	63.9	74.4	62.5		
Third-party cloud service providers (Amazon Google IBM Microsoft) are								
are an important part of our campus plan to offer high performance								
computing services.	68.6	63.2	65.6	69.4	72.6	64.8		
Given the exploding demand for network services, my campus should								
charge access fees for students who consume excess								
bandwidth more than 20Gb of bandwidth weekly.	24.2	17.5	21.9	22.2	23.8	31.8		
Wearable technology will become an important part of our		24.2		0.4 =				
plan to offer IT resources to students.	29.3	24.6	32.3	34.7	29.8	26.1		
Digital curricular resources make learning more efficient		400.0		24.4	20.0	0.4.6		
and effective for students	94.2	100.0	93.5	94.4	92.3	94.3		
Digital curricular resources provide a richer and more personalized	00.0	07.7	00.2	07.5	04.5	00.0		
learning experience than traditional print materials	86.8	87.7	90.3	87.5	84.5	88.6		
Adaptive learning technology has great potential to improve	06.0	98.2	06.0	98.6	04.0	06.6		
learning outcomes for students.  Open Source textbooks/OER content will be an important	96.2	90.2	96.8	90.0	94.0	96.6		
source for instructional resources in five years.	81.7	82.5	77.4	87.5	78.0	85.2		
MOOCs offer a viable academic model for the effective delivery	01.7	02.5	77.4	07.5	70.0	00.2		
of online instruction.	36.1	33.3	64.5	37.5	31.0	36.4		
MOOCs offer a viable business model for campuses to accrue	30.1	33.3	04.3	37.3	31.0	30		
new revenues from online courses.	19.0	21.1	22.6	25.0	13.7	21.6		
Outsourcing instructional services (course development, user support, etc.)	10.0	21.1	22.0	20.0	10.7	21.0		
offers a viable and effective strategy for many campuses to								
launch / expand online courses and programs.	45.2	36.8	64.5	43.1	44.0	47.7		
Outsourcing instructional services (course development, user support, etc.).	1		00					
offers a profitable strategy for many campuses to launch/expand online								
online courses and programs.	34.4	28.1	45.2	30.6	32.7	40.9		
We have a difficult time retaining IT talent because our salaries and								
benefits are not competitive with off-campus job opportunities.	74.0	80.7	77.4	81.9	67.3	75.0		
CURRENT IT / COMPUTER FACILITIES AND RESOURCES								
Headcount enrollment on campus as of May 2015	10,636	26,972	11,810	11,929	3,175	12,815		
Percentage of individuals who own desktop computers,	10,000	20,512	11,010	11,020	3,173	12,010		
notebook computers, smartphones, or tablets:								
Students								
Desktops	25.7	27.0	14.6	29.7	15.1	45.8		
Notebooks	75.2	79.8	92.2	75.0	84.3	49.0		
Smartphones	83.6	82.7	90.2	85.5	87.0	74.		
Tablets	34.0	37.7	36.8	36.5	33.9	28.6		
Faculty								
Desktops	55.7	64.5	52.6	60.3	45.7	66.1		
Notebooks	56.6	60.6	67.0	55.8	59.4	45.7		
Smartphones	74.9	72.4	76.3	76.8	75.8	72.9		
Tablets	34.9	36.6	37.5	34.9	35.5	31.8		
Percentage of the classrooms that are multimedia or are AV enabled	80.6	73.8	77.8	79.2	80.3	87.9		
Total number (FTE) of IT help desk / technical support personnel	31.4	84.2	92.8	31.8	10.5	14.4		
User Support Ratio (enrollment / FTE help desk personnel)	338.7	320.3	127.3	375.1	302.4	889.9		
Percentage of faculty with individual / personal Web page	26.0	29.3	39.0	29.3	25.5	17.0		
	20.0	23.3	39.0	23.3	20.0	17.0		
Percentage of your faculty have taught an online course (80 pct of content								
online) over the past two years:	25.0	07.7	24.5	20.0	150	20.		
Full-time faculty	25.2	27.7	21.5	29.0	15.9	39.7		
Part-time faculty	22.4	25.3	19.6	26.7	16.5	29.4		

	All	All Universities		MA & BA C	Community	
	Institutions	Public	Private	Public	Private	Colleges
Percentage of classes that use:						
LMS / course management tools for online course resources	69.4	69.7	76.5	68.0	70.2	66.3
Audio lecture capture	7.5	8.5	10.8	7.1	6.2	8.8
Video lecture capture	9.3	11.9	13.6	9.9	7.5	8.8
"Clickers" / classroom response system	8.8	13.5	10.7	8.2	7.9	7.4
Anti-plagiarism software for written assignment	26.9	24.5	27.4	33.4	24.3	28.2
Open Source / OER curricular resources	5.6	6.5	6.7	4.4	5.8	5.4
Adaptive learning tools in developmental and general education courses	4.4	4.1	5.4	4.0	4.3	4.7
Courseware in general education classes	10.0	9.5	8.9	12.4	9.3	9.9
ACADEMIC & INSTRUCTIONAL COMPUTING POLICIES AND PRO	CEDURES & R	<b>ESOURCES</b>				
Does your campus / institution: (percentages)						
Have a policy or program for rewarding courseware development or						
providing incentives for faculty to develop instructional						
software / courseware or educational content?	41.0	57.9	37.5	52.8	29.8	43.2
Have a formal program to recognize and reward the use of information						
technology as part of the routine faculty review and promotion process?	17.7	14.0	9.4	18.1	13.1	31.8
Have a formal program to assess the impact of IT on instruction			• • • •			
and learning outcomes?	20.9	19.3	28.1	22.2	17.3	25.0
Have a formal policy regarding ownership of Web-based curriculum			20			
resources and intellectual property developed by faculty?	62.1	80.7	71.9	69.4	51.2	61.4
Charge students for access to digital content (online reserve readings,					· · · · · ·	• • • • • • • • • • • • • • • • • • • •
course packets, recorded content, etc.)?	7.2	12.3	3.1	6.9	3.6	12.5
Inform / counsel students about privacy issues related to social	'	12.0	0.1	0.0	0.0	
networking sites (Facebook, LinkedIn, etc.)?	69.1	80.7	87.5	58.3	78.0	46.6
Encourage the use of the Creative Commons license on digital works?	44.6	66.7	59.4	40.3	43.5	30.7
Encourage faculty to use Open Source / OER instructional	11.0	00.1	00.1	10.0	10.0	
content for their courses?	38.1	42.1	25.0	38.9	35.7	44.3
Support faculty efforts to develop Open Source / OER instructional	00.1	12.1	20.0	00.0	00.1	
content for their courses?	36.2	40.4	31.3	43.1	30.4	40.9
Maintain a campus page on Facebook?	97.6	100.0	96.9	97.2	97.6	96.6
Have an institutional presence on YouTube?	93.0	96.5	96.9	93.1	93.5	88.6
Have an institutional presence on iTunesU?	59.2	84.2	84.4	65.3	51.2	44.3
Maintain an institutional account on Twitter?	95.0	98.2	96.9	93.1	97.0	89.8
Have a campus / department license for anti-plagiarism software		00.2	00.0	•	00	
(e.g., PlagScan, Turnitin, SafeAssign)?	75.3	86.0	90.6	95.8	62.5	70.5
Outsource various aspects of your online program activities (recruitment,	1					
course development, student services)?	29.5	28.1	40.6	25.0	36.9	15.9
Support Single Sign On (SSO) access to campus services?	76.3	89.5	78.1	90.3	69.0	69.3
Does your institution have a strategic plan for: (percentages)	1					
Information technology						
no	5.0	7.0	3.1	4.2	6.0	3.4
currently preparing a plan	18.0	19.3	12.5	13.9	23.2	12.5
, , , , , , , , , , , , , , , , , , ,	77.0	73.7	84.4	81.9	70.8	84.
yes Instructional technology / instructional integration of IT	11.0	13.1	04.4	01.9	70.0	04.
	15.4	17.5	6.3	15.3	17.3	13.6
no currently preparing a plan			I	15.3 29.2	31.6	1
71 1 3 1	28.5 56.1	22.8 59.7	31.3 62.5	29.2 55.6	51.0	25.0 61.4
yes	30.1	39.1	02.5	33.0	31.2	01.4
Deploying course / learning management tools	] 20.4	1E 0	0.4	20.0	22.0	20
no	20.1	15.8	9.4	20.8	22.0	22.
currently preparing a plan	15.8	10.5	15.6	20.8	18.5	10.5
yes Online / distance education	64.0	73.7	75.0	58.3	59.5	67.
Online / distance education	040	45.0		45.0	20.0	40
no	24.2	15.8	9.4	15.3	39.3	13.
currently preparing a plan	21.8	19.3	31.3	22.2	26.2	11.
yes Wastern not works	54.0	64.9	59.4	62.5	34.5	75.
Wireless networks		4.0	_			_
no	7.0	1.8	3.1	8.3	7.7	9.
currently preparing a plan	8.4	10.5	3.1	6.9	7.7	11.
yes	84.7	87.7	93.8	84.7	84.5	79.0

	All	Universities		MA & BA	Community	
	Institutions	Public	Private	Public	Private	Colleges
Does your institution have a strategic plan for: (percentages)						
Network and data security						
no	5.3	-	3.1	2.8	5.4	11.4
currently preparing a plan	17.0	17.5	9.4	15.3	20.8	13.6
yes	77.7	82.5	87.5	81.9	73.8	75.0
IT disaster recovery	4.2	1.0	6.2		4.8	۰۰
no currently preparing a plan	4.3 27.8	1.8 33.3	6.3 9.4	- 19.4	33.3	8.0 27.3
yes	67.9	64.9	84.4	80.6	61.9	64.8
Administrative systems / ERP upgrade / replacement	01.5	04.5	04.4	00.0	01.5	04.0
no	15.1	7.0	6.3	13.9	17.9	19.3
currently preparing a plan	19.2	19.3	18.8	15.3	19.6	21.6
yes	65.7	73.7	75.0	70.8	62.5	59.1
Digital content management						
no	31.2	31.6	18.8	22.2	31.6	42.1
currently preparing a plan	36.2	38.6	34.4	44.4	35.1	30.7
yes	32.6	29.8	46.9	33.3	33.3	27.3
Data warehousing		47.5	40.5	40.4		
no	30.0	17.5	12.5	19.4	38.7	36.4
currently preparing a plan	28.8	22.8	25.0	30.6	31.0	28.4
yes Business intelligence / analytics	41.3	59.7	62.5	50.0	30.4	35.2
no	26.9	10.5	9.4	22.2	34.5	33.0
currently preparing a plan	35.7	38.6	31.3	33.3	36.3	36.4
yes	37.4	50.0	59.4	44.4	29.2	30.4
Open Source deployment and development	01.4	00.0	00.4	71.1	20.2	00.1
no	68.6	61.4	59.4	62.5	70.8	77.3
currently preparing a plan	12.2	15.8	12.5	13.9	8.9	14.8
yes	19.2	22.8	28.1	23.6	20.2	8.0
Lecture capture (audio and video)						
no	30.9	17.5	6.3	22.2	36.3	45.5
currently preparing a plan	29.3	24.6	25.0	38.9	31.6	21.6
yes	39.8	57.9	68.8	38.9	32.1	33.0
Campus video management						
no	28.5	31.6	25.0	23.6	29.2	30.7
currently preparing a plan	26.4	26.3	21.9	30.6	24.4	28.4
yes	45.1	42.1	53.1	45.8	46.4	40.9
Emergency communications / notification	0.0				2.0	
no	2.2	-	-	-	3.6	3.4
currently preparing a plan	2.6	1.8	100.0	1.4	3.6 92.9	3.4 93.2
yes Digital preservation / data archiving	95.2	98.3	100.0	98.6	92.9	93.2
no	24.9	22.8	12.5	27.8	23.2	31.8
currently preparing a plan	37.4	47.4	53.1	29.2	38.7	29.6
yes	37.7	29.8	34.4	43.1	38.1	38.6
Cloud computing			• • • • • • • • • • • • • • • • • • • •			00.0
no	27.1	22.8	12.5	20.8	25.0	44.3
currently preparing a plan	39.8	38.6	50.0	41.7	40.5	34.1
yes	33.1	38.6	37.5	37.5	34.5	21.6
Server virtualization						
no	6.2	1.8	-	5.6	7.7	9.1
currently preparing a plan	13.0	8.8	9.4	9.7	14.3	17.1
yes	80.8	89.5	90.6	84.7	78.0	73.9
Disability accessibility / compliance for Web resources						
no	19.9	5.3	15.6	11.1	33.3	12.5
currently preparing a plan	30.5	40.4	46.9	19.4	30.4	27.3
yes	49.6	54.4	37.5	69.4	36.3	60.2
Email and document archiving to address eDiscovery	05.0	400	40.0	40.4	00-	00.4
no	25.2	12.3	18.8	19.4	32.7	26.1
currently preparing a plan	24.9	26.3	18.8	25.0	22.6	30.7
yes	49.9	61.4	62.5	55.6	44.6	43.2

	All	Univers	sities	MA & BA Colleges		Community
	Institutions	Public	Private	Public	Private	Colleges
Does your institution have a strategic plan for: (percentages)						
Identity and access management						
no	14.2	5.3	6.3	9.7	17.9	19.3
currently preparing a plan	37.9	40.4	28.1	33.3	39.3	40.9
yes	48.0	54.4	65.6	56.9	42.9	39.8
Digital textbooks / digital curricular materials						
no	46.0	38.6	34.4	34.7	55.4	46.6
currently preparing a plan	41.0	40.4	53.1	45.8	36.9	40.9
yes	13.0	21.1	12.5	19.4	7.7	12.5
Social media (Facebook, Twitter, etc.)						
no	21.6	22.8	9.4	22.2	23.8	20.5
currently preparing a plan	30.0	36.8	34.4	36.1	24.4	29.6
yes	48.4	40.4	56.3	41.7	51.8	50.0
Mobile computing / mobile resources and services						
no	22.5	24.6	6.3	15.3	24.4	29.6
currently preparing a plan	32.4	31.6	40.6	36.1	29.8	31.8
yes	45.1	43.9	53.1	48.6	45.8	38.6
Competency-based education		_		_		
no	65.5	70.2	59.4	58.3	71.4	59.1
currently preparing a plan	27.8	21.1	34.4	33.3	23.2	34.1
yes	6.7	8.8	6.3	8.3	5.4	6.8
When did your institution develop / last update the campus plan						
for the IT issues listed below? (percentages)						
Overall campus IT plan						
past 12 months	49.4	38.6	56.3	48.6	49.4	54.6
13 to 24 months ago	19.2	21.1	15.6	25.0	19.1	14.8
more than 24 months ago	31.4	40.4	28.1	26.4	31.6	30.7
IT security						
past 12 months	65.0	63.2	75.0	73.6	61.3	62.5
13 to 24 months ago	16.1	15.8	12.5	18.1	18.5	11.4
more than 24 months ago	18.9	21.1	12.5	8.3	20.2	26.1
IT disaster recovery						
past 12 months	54.2	52.6	56.3	65.3	52.4	48.9
13 to 24 months ago	17.5	19.3	25.0	16.7	16.7	15.9
more than 24 months ago	28.3	28.1	18.8	18.1	31.0	35.2
Cloud computing						
past 12 months	60.2	64.9	68.8	62.5	62.5	47.7
13 to 24 months ago	16.6	21.1	12.5	22.2	13.7	15.9
more than 24 months ago	23.3	14.0	18.8	15.3	23.8	36.4
Mobile Computing						
past 12 months	60.2	59.7	56.3	66.7	56.6	63.6
13 to 24 months ago	19.2	19.3	21.9	23.6	17.9	17.1
more than 24 months ago	20.6	21.1	21.9	9.7	25.6	19.3
Identity and access management						
past 12 months	59.2	66.7	78.1	65.3	52.4	55.7
13 to 24 months ago	17.5	14.0	15.6	16.7	19.6	17.1
more than 24 months ago	23.3	19.3	6.3	18.1	28.0	27.3
Disability accessibility / compliance						
past 12 months	42.7	49.1	46.9	50.0	32.7	50.0
13 to 24 months ago	20.1	26.3	21.9	27.8	16.1	17.1
more than 24 months ago	37.2	24.6	31.3	22.2	51.2	33.0
FUTURE ISSUES AFFECTING CAMPUS COMPUTING						
How important are the following to campus computing / information technology environment and IT policy and planning over the next 2-3 years?						
mean score: scale from 1=not important; 7=very important						
Hardware						
Laptop / netbook computers	5.9	6.0	6.0	5.9	6.0	5.6
Smart phones	6.3	6.3	6.4	6.3	6.2	6.1
Tablet devices	6.2	6.1	6.2	6.2	6.1	6.2
145.00 404.000	3.8	3.8	4.0	4.0	3.8	3.7

	All	Univers	sities	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
How important are the following to campus computing / information						
technology environment and IT policy and planning over the next 2-3 years?						
Mean score: scale from 1="Not effective" to 7="Very effective".						
Instructional applications and resources						
Developing instructional software	3.9	4.1	4.8	4.1	3.7	3.9
Web-based tutorials	5.7	5.7	5.5	5.7	5.6	5.9
e-Books (e-textbooks)	5.5	5.5	5.5	5.7	5.2	5.8
Open Source / OER textbooks	4.8	5.0	4.5	5.1	4.6	5.1
Online course evaluation	6.0	6.1	6.3	6.0	5.8	6.1
Classroom "clickers" / response system	4.3	5.1	4.7	4.4	4.1	4.1
Student ePortfolios	5.0	5.0	5.3	5.0	5.2	4.4
Audio lecture capture	4.7	4.9	5.5	4.8	4.5	4.5
Video lecture capture	5.3	5.7	6.2	5.5	5.1	5.1
User support services / campus services						
Online IT training	5.8	5.9	5.5	5.9	5.6	5.9
Online technical support	6.0	6.3	6.1	6.3	5.9	6.0
Computer resale program	2.5	2.7	2.6	2.5	2.3	2.7
Alumni services via the campus Web site	4.8	4.5	5.4	4.8	5.2	4.1
Internet / Web issues & resources						
Internet videoconferencing	6.0	6.2	6.2	5.9	5.9	6.1
Live streaming	5.3	5.4	5.4	5.2	5.4	4.8
LTI standards for developing apps	5.2	5.6	5.3	5.2	5.0	5.1
Content management systems	5.9	6.0	6.1	6.1	5.8	5.9
Podcasting	4.1	4.1	4.1	4.0	4.1	4.1
Web conferencing	5.9	6.2	6.2	5.9	5.9	5.9
Server virtualization	6.6	6.7	6.5	6.7	6.5	6.6
Desktop virtualization	5.6	5.8	5.7	5.9	5.3	5.6
Network virtualization	5.1	5.4	4.9	5.2	4.9	5.4
Vendor Services / Outsourcing						
Data back-up / storage	4.6	4.4	5.0	4.7	4.8	4.3
ERP services	3.6	3.4	4.2	3.5	3.5	3.8
Instructional technology services	2.9	2.9	3.2	2.7	2.7	3.3
User support	3.0	2.8	3.3	2.9	2.8	3.2
ResNet services	2.6	2.6	2.9	3.3	2.7	2.0
Network services	2.6	2.2	2.8	2.6	2.7	2.8
eProcurement	2.9	3.1	3.6	3.2	2.5	2.8
Campus portal	2.9	2.7	3.0	2.8	2.9	3.2
Web hosting	4.2	4.0	4.6	4.0	4.5	4.0
Video management	4.3	4.1	4.5	4.0	4.5	4.3
Course development	2.8	2.7	3.2	2.7	2.8	2.7
Online course delivery	3.5	3.5	3.8	3.2	3.4	3.7
DATING THE TECHNOLOGY INEDASTRUCTURE						
RATING THE TECHNOLOGY INFRASTRUCTURE						
percent reporting excellent (6/7); scale score: 1=poor; 7=excellent	70.0	CO 4	04.4	70.0	70.0	70 5
Computer networks and data communication	72.9	68.4	84.4	79.2	70.8	70.5
Emergency communications / notification system(s)	68.1	63.2	81.3	77.8	66.7	61.4
Wireless networks	65.5	63.2	71.9	69.4	66.1	60.2
Online reference resources in campus library / library system	61.6	49.1	68.8	63.9	62.5	63.6
Multimedia / AV enabled classrooms	61.4	54.4	65.6	63.9	60.7	63.6
User support services	56.4	45.6	65.6	61.1	56.5	55.7
Telecommunications and phone system	56.1	52.6	50.0	61.1	52.4	63.6
Enterprise systems	47.5	36.8	46.9	54.2	45.8	52.3
Instructional computing	46.3	42.1	59.4	48.6	42.9	48.9
IT security (network attacks, secure data bases, identity mgmt., etc.)	44.4	47.4	46.9	54.2	39.3	43.2
Cellular coverage across the campus	42.4	35.1	37.5	47.2	50.6	29.5
Web resources to support instruction	41.2	31.6	37.5	40.3	42.3	47.7
Campus web site services / student portal	36.5	33.3	25.0	41.7	35.7	39.8
IT training for faculty	26.9	35.1	31.3	26.4	29.8	14.8
Disaster planning	24.7	29.8	34.4	30.6	21.4	19.3
Data warehousing	20.1	24.6	34.4	22.2	16.1	18.2

	All	Univers	sities	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
Rating the Technology Infrastructure (continued)						
percent reporting excellent (6/7); scale score: 1=poor; 7=excellent						
IT accessibility: IT resources and services for users with disabilities	18.7	21.1	15.6	26.4	11.3	26.1
Mobile apps / services for students, faculty & staff	17.7	19.3	25.0	19.4	17.3	13.6
Video capture and services / delivery infrastructure	15.8	24.6	31.3	20.8	10.1	11.4
Research computing	13.2	28.1	34.4	6.9	8.3	10.2
Digital dashboards / ERP analytics	11.0	12.3	18.8	12.5	10.1	8.0
IT training for students	10.6	8.8	15.6	15.3	10.1	6.8
Rating the Effectiveness of Your Institution's Investment in						
Technology Resources and Services						
percent very effective (6 / 7); scale from 1=not effective; 7=very effective						
On-campus teaching and instruction	64.7	52.6	75.0	66.7	67.9	67.0
Library resources and services	62.6	59.6	62.5	72.2	65.5	60.2
Administrative information systems and operations	60.4	52.6	62.5	68.1	62.5	59.1
Instructional support services for faculty	56.8	49.1	62.5	65.3	56.0	58.0
Student recruitment	55.9	52.6	71.9	55.6	67.9	44.3
Academic support services (including advising and retention efforts)	54.0	59.6	46.9	59.7	54.8	50.0
Student services	53.7	57.9	53.1	65.3	50.0	53.4
Online / distance courses and programs	45.8	52.6	40.6	61.1	45.8	67.0
Student success / student completion initiatives	38.4	47.4	37.5	51.4	37.5	38.6
Development efforts	31.4	29.8	34.4	34.7	38.7	26.1
Alumni activities / engagement	30.5	31.6	37.5	37.5	34.5	23.9
Data analysis and managerial analytics	25.9	36.8	25.0	22.2	22.0	35.2
Research and scholarship	25.2	45.6	43.8	31.9	27.4	35.2
ADDRESSING BUDGET ISSUES BY: (percentages)						
Charging fees to departments and service units (networking, printing, etc.)						
1	20.0	F7.0	42.0	20.4	40.0	20.7
Doing this already	30.2	57.9 -	43.8	36.1	19.6	22.7
Beginning in 2015-16	0.5		-	- 0.7	0.6	1.1
Reviewing for 2015-16  Decided not to do	7.7 61.6	14.0 28.1	6.3 50.0	9.7 54.2	4.2 75.6	9.1 67.1
Requiring a computer / IT fee for all students	01.0	20.1	30.0	34.2	75.0	07.1
Doing this already	57.8	75.4	43.8	75.0	39.9	71.6
Beginning in 2015-16	0.7	75.4	43.0	1.4	0.6	1.1
Reviewing for 2015-16	4.3	-	3.1	4.2	5.4	5.7
Decided not to do	37.2	24.6	53.1	19.4	54.2	21.6
Regulating the amount of campus bandwidth students can consume	37.2	24.0	30.1	13.4	J4.Z	21.0
Doing this already	30.9	24.6	25.0	34.7	33.3	29.6
Beginning in 2015-16	1.0	-		-	1.8	1.1
Reviewing for 2015-16	8.6	7.0	12.5	5.6	8.9	10.2
Decided not to do	59.5	68.4	62.5	59.7	56.0	59.1
Reducing hours in public access facilities						
Doing this already	19.2	22.8	9.4	22.2	15.5	25.0
Beginning in 2015-16	2.9	1.8	-	6.9	1.2	4.6
Reviewing for 2015-16	7.7	8.8	15.6	11.1	3.6	9.1
Decided not to do	70.3	66.7	75.0	59.7	79.8	61.4
Reducing services (e.g., less consulting, training)						
Doing this already	25.7	19.3	12.5	31.9	24.4	31.8
Beginning in 2015-16	3.8	5.3	3.1	1.4	3.0	6.8
Reviewing for 2015-16	14.4	22.8	25.0	11.1	12.5	11.4
Decided not to do	56.1	52.6	59.4	55.6	60.1	50.0
Phasing out public computer labs						
Doing this already	14.2	17.5	12.5	18.1	15.5	6.8
Beginning in 2015-16	2.4	-	-	5.6	3.0	1.1
Reviewing for 2015-16	18.2	28.1	21.9	19.4	18.5	9.1
Decided not to do	65.2	54.4	65.6	56.9	63.1	83.0
Reorganizing operations (e.g., combining IT units)						
Doing this already	58.3	66.7	71.9	61.1	56.0	50.0
Beginning in 2015-16	7.0	14.0	6.3	5.6	6.0	5.7
Reviewing for 2015-16	18.9	15.8	15.6	20.8	18.5	21.6
Decided not to do	15.8	3.5	6.3	12.5	19.6	22.7

	All	Univer	sities	MA & BA	Colleges	Community	
	Institutions	Public	Private	Public	Private	Colleges	
Addressing Budget Issues By: (continued) percenatges							
Reducing staff							
Doing this already	26.6	28.1	25.0	19.4	23.8	37.5	
Beginning in 2015-16	5.8	7.0	-	4.2	4.8	10.2	
Reviewing for 2015-16	9.6	19.3	9.4	8.3	6.0	11.4	
Decided not to do	58.0	45.6	65.6	68.1	65.5	40.9	
Using information technology to reduce instructional costs							
Doing this already	45.3	59.7	43.8	44.4	38.1	51.1	
Beginning in 2015-16	2.9	1.8	-	1.4	3.6	4.6	
Reviewing for 2015-16	22.5	21.1	18.8	29.2	22.6	19.3	
Decided not to do	29.3	17.5	37.5	25.0	35.7	25.0	
Making greater use of student assistants for user support needs							
Doing this already	80.3	89.5	71.9	83.3	82.7	70.5	
Beginning in 2015-16	2.6	-	-	-	3.6	5.7	
Reviewing for 2015-16	7.0	3.5	12.5	9.7	5.4	8.0	
Decided not to do	10.1	7.0	15.6	6.9	8.3	15.9	
Outsourcing computing / IT services							
Doing this already	32.4	33.3	40.6	30.6	33.9	27.3	
Beginning in 2015-16	2.6	3.5	3.1	5.6	1.2	2.3	
Reviewing for 2015-16	14.9	26.3	18.8	16.7	8.9	15.9	
Decided not to do	50.1	36.8	37.5	47.2	56.0	54.6	
Outsourcing student portal service	00.1	00.0	01.0	71.2	00.0	04.0	
Doing this already	8.9	10.5	6.3	9.7	8.9	8.0	
	2.2	-	3.1	2.8	1.2	4.6	
Beginning in 2015-16		7.0	12.5	11.1	6.0	9.1	
Reviewing for 2015-16	8.2		1				
Decided not to do	80.8	82.5	78.1	76.4	83.9	78.4	
Outsourcing user support / help desk services	14.5	10.0	24.0	44.4	F 4	10.0	
Doing this already	11.5	12.3	21.9	11.1	5.4	19.3	
Beginning in 2015-16	1.9	1.8	-	1.4	1.2	4.6	
Reviewing for 2015-16	13.2	10.5	6.3	15.3	12.5	17.	
Decided not to do	73.4	75.4	71.9	72.2	81.0	59.	
Outsourcing ResNet services							
Doing this already	8.9	5.3	3.1	15.3	8.9	8.0	
Beginning in 2015-16	0.7	-	-	1.4	-	2.3	
Reviewing for 2015-16	7.7	8.8	12.5	5.6	7.7	6.8	
Decided not to do	82.7	86.0	84.4	77.8	83.3	83.0	
Delaying / deferring ERP deployment / replacement / upgrades							
Doing this already	18.9	19.3	18.8	19.4	19.6	17.1	
Beginning in 2015-16	2.6	5.3	-	5.6	-	4.6	
Reviewing for 2015-16	8.9	12.3	12.5	8.3	7.7	8.0	
Decided not to do	69.5	63.2	68.8	66.7	72.6	70.5	
Deferring / reducing use of consultants on IT projects							
Doing this already	42.5	42.1	31.3	48.6	42.9	40.9	
Beginning in 2015-16	3.4	5.3	6.3	1.4	3.0	3.4	
Reviewing for 2015-16	14.6	15.8	25.0	15.3	11.3	15.9	
Decided not to do	39.6	36.8	37.5	34.7	42.9	39.8	
Reviewing options for the campus standard Learning Management System	33.5	30.0	37.0	<b>V</b> 1.1	12.0	55.0	
Doing this already	34.5	40.4	31.3	38.9	33.9	29.6	
Beginning in 2015-16	5.3	3.5	6.3	1.4	7.1	5.7	
			l l				
Reviewing for 2015-16	21.8	22.8	25.0	31.9	16.7	21.6	
Decided not to do	38.4	33.3	37.5	27.8	42.3	43.2	
Migrating to Software as a Service (SaaS) / Cloud-based ERP applications	400	04.4	05.0	00.0	47.0	40.	
Doing this already	18.9	21.1	25.0	23.6	17.9	13.6	
Beginning in 2015-16	6.0	7.0	6.3	4.2	4.8	9.1	
Reviewing for 2015-16	29.3	42.1	34.4	25.0	28.6	23.9	
Decided not to do	45.8	29.8	34.4	47.2	48.8	53.4	

RATEGIC, BUDGET AND PERSONNEL ISSUES	All	Univer	sities	MA & BA	Colleges	Communi
·	Institutions	Public	Private	Public	Private	Colleges
percent reporting very important (6/7); scale: 1=not important; 7=very important						
Helping our IT personnel stay current with new technologies	88.0	80.7	93.8	93.1	85.1	92
Identity Management	81.5	94.7	84.4	84.7	76.2	79
IT business continuity	77.5	86.0	71.9	79.2	73.2	80
Storage management	71.9	89.5	71.9	77.8	64.9	69
Assessing the benefits of existing investments in computing and technology	71.7	82.5	81.3	70.8	68.5	68
Business analytics / intelligence	70.7	84.2	75.0	83.3	66.1	59
Surveying students and faculty about IT issues and services	67.1	68.4	56.3	63.9	65.5	76
Moving more of our user support services to the Web	66.7	71.9	68.8	70.8	58.9	73
Assessing the return on investment for IT spending / resources	64.7	71.9	56.3	68.1	61.3	67
Data warehousing	58.8	68.4	62.5	75.0	48.8	50
Using predictive analytics to support success initiatives	55.6	66.7	53.1	51.4	48.8	6
Researching the total cost of ownership (TCO) for our IT purchases	54.4	57.9	56.3	51.4	51.2	60
Hosted applications / Software as a Service (SaaS)	54.4	70.2	62.5	47.2	53.6	48
Implementing Federated Identity Management	53.7	78.9	65.6	59.7	42.3	5
Operating with a single student user profile for all institutional applications	47.5	57.9	43.8	40.3	44.0	5
Managing / distributing digital learning resources	46.5	50.9	46.9	54.2	40.5	4
Managing campus video resources (lectures, presentation, etc.)	43.9	47.4	62.5	54.2	38.1	3
Developing / updating campus policies for Web-based intellectual property	38.6	45.6	43.8	41.7	34.5	3
Sharing digital resources with other campuses / institutions	37.4	45.6	34.4	45.8	32.1	3
Controlling / restricting file sharing of commercial content (music, media, etc.)	37.4	35.1	28.1	41.7	35.1	4
Providing incentives and rewards for faculty to support						
technology integration into the curriculum	31.4	21.1	31.3	41.7	34.5	2
Implementing new technology tools in our continuing ed						
and workforce development programs	29.3	21.1	31.3	30.6	24.4	4
Negotiating site licensing agreements with academic publishers	28.3	33.3	18.8	33.3	22.6	3
Using social media to support student success initiatives	28.1	26.3	21.9	36.1	23.2	3
Using Open Source tools and applications	27.3	29.8	31.3	29.2	26.8	2
Negotiating site licensing agreements with textbook publishers	24.9	29.8	15.6	29.2	18.5	3
Migrating administrative / ERP services to the Cloud	23.3	28.1	31.3	23.6	21.4	2
Promoting the use of Open Education Resource (OER) course materials	17.7	17.5	6.3	20.8	13.1	2
centage of colleges and universities currently provide these technology-ba	ased					
ources and services for students, faculty, and staff						
Email accounts for faculty, staff and administrators	100.0	100.0	100.0	100.0	100.0	10
Email accounts for students	98.6	100.0	100.0	100.0	100.0	9
Public computer labs	93.8	94.6	96.9	88.9	95.8	9
Video lecture capture	73.3	89.3	100.0	86.1	58.3	7
Email services for alumni (accounts or forwarding)	72.6	83.9	90.6	72.2	77.4	5
IT help desk services on evenings and weekends	69.7	75.0	87.5	76.4	69.6	5
Audio lecture capture	67.1	83.9	93.8	73.6	54.8	6
Free (paper) printing services for students	66.8	55.4	65.6	59.7	76.8	6
ePortfolio services for students	54.8	48.2	71.9	61.1	66.7	2
3D printing for students	49.5	64.3	62.5	47.2	45.2	4
	41.1	57.1	56.3	38.9	50.6	
On-site computer repair services for students	ا میدا			00.0	20.0	۱ ،
On-site computer repair services for students ePortfolio services for faculty and staff	34.4	35.7	53.1	30.6	39.9	!
	24.0	35.7 41.1	53.1 31.3	30.6 19.4	23.2	
ePortfolio services for faculty and staff Computer resale program	24.0	41.1				
ePortfolio services for faculty and staff Computer resale program centage of survey participants who agree/strongly agree colleges and univ	24.0 versities should	41.1				
ePortfolio services for faculty and staff Computer resale program centage of survey participants who agree/strongly agree colleges and univide these technology-based resources and services for students, faculty,	24.0 versities should and staff	41.1 <b>3</b>	31.3	19.4	23.2	1
ePortfolio services for faculty and staff Computer resale program centage of survey participants who agree/strongly agree colleges and univoide these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators	24.0 versities should and staff 99.3	41.1 i 100.0	31.3	19.4 97.2	100.0	9
ePortfolio services for faculty and staff Computer resale program centage of survey participants who agree/strongly agree colleges and univ vide these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students	24.0 versities should and staff 99.3 92.8	41.1 100.0 93.0	31.3 100.0 96.9	97.2 91.7	100.0 94.6	98
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ ride these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs	24.0 versities should and staff 99.3 92.8 88.0	41.1 100.0 93.0 89.5	31.3 100.0 96.9 81.3	97.2 91.7 87.5	100.0 94.6 89.3	9 8 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ vide these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture	24.0 versities should and staff 99.3 92.8 88.0 92.6	41.1 100.0 93.0 89.5 100.0	31.3 100.0 96.9 81.3 100.0	97.2 91.7 87.5 97.2	100.0 94.6 89.3 88.7	9 8 8 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ ride these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding)	24.0 versities should and staff 99.3 92.8 88.0 92.6 70.0	41.1 100.0 93.0 89.5 100.0 80.7	31.3 100.0 96.9 81.3 100.0 84.4	97.2 91.7 87.5 97.2 72.2	100.0 94.6 89.3 88.7 70.8	5 8 8 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ vide these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding) IT help desk services on evenings and weekends	24.0  versities should and staff  99.3  92.8  88.0  92.6  70.0  91.1	41.1 100.0 93.0 89.5 100.0 80.7 94.7	31.3 100.0 96.9 81.3 100.0 84.4 96.9	97.2 91.7 87.5 97.2 72.2 98.6	100.0 94.6 89.3 88.7 70.8 86.9	5 8 8 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ ride these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding) IT help desk services on evenings and weekends Audio lecture capture	24.0  versities should and staff  99.3  92.8  88.0  92.6  70.0  91.1  84.9	41.1 100.0 93.0 89.5 100.0 80.7 94.7 93.0	31.3 100.0 96.9 81.3 100.0 84.4 96.9 90.6	97.2 91.7 87.5 97.2 72.2 98.6 88.9	100.0 94.6 89.3 88.7 70.8 86.9 79.8	9 8 8 8 5 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univolet these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding) IT help desk services on evenings and weekends Audio lecture capture Free (paper) printing services for students	24.0  versities should and staff  99.3  92.8  88.0  92.6  70.0  91.1  84.9  58.8	41.1 100.0 93.0 89.5 100.0 80.7 94.7 93.0 47.4	31.3 100.0 96.9 81.3 100.0 84.4 96.9 90.6 65.6	97.2 91.7 87.5 97.2 72.2 98.6 88.9 55.6	100.0 94.6 89.3 88.7 70.8 86.9 79.8 64.9	9 8 8 8 5 8 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and university in these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding) IT help desk services on evenings and weekends Audio lecture capture Free (paper) printing services for students ePortfolio services for students	24.0  versities should and staff  99.3 92.8 88.0 92.6 70.0 91.1 84.9 58.8 83.5	41.1 100.0 93.0 89.5 100.0 80.7 94.7 93.0 47.4 87.7	31.3 100.0 96.9 81.3 100.0 84.4 96.9 90.6 65.6 87.5	97.2 91.7 87.5 97.2 72.2 98.6 88.9 55.6 86.1	100.0 94.6 89.3 88.7 70.8 86.9 79.8 64.9 86.9	9 8 8 8 5 8 8 8
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ vide these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding) IT help desk services on evenings and weekends Audio lecture capture Free (paper) printing services for students ePortfolio services for students 3D printing for students	24.0  versities should and staff  99.3 92.8 88.0 92.6 70.0 91.1 84.9 58.8 83.5 69.5	41.1 100.0 93.0 89.5 100.0 80.7 94.7 93.0 47.4 87.7 73.7	31.3 100.0 96.9 81.3 100.0 84.4 96.9 90.6 65.6 87.5 84.4	97.2 91.7 87.5 97.2 72.2 98.6 88.9 55.6 86.1 73.6	100.0 94.6 89.3 88.7 70.8 86.9 79.8 64.9 86.9 67.3	9 8 8 8 5 8 5 7
ePortfolio services for faculty and staff Computer resale program  centage of survey participants who agree/strongly agree colleges and univ vide these technology-based resources and services for students, faculty, Email accounts for faculty, staff and administrators Email accounts for students Public computer labs Video lecture capture Email services for alumni (accounts or forwarding) IT help desk services on evenings and weekends Audio lecture capture Free (paper) printing services for students ePortfolio services for students	24.0  versities should and staff  99.3 92.8 88.0 92.6 70.0 91.1 84.9 58.8 83.5	41.1 100.0 93.0 89.5 100.0 80.7 94.7 93.0 47.4 87.7	31.3 100.0 96.9 81.3 100.0 84.4 96.9 90.6 65.6 87.5	97.2 91.7 87.5 97.2 72.2 98.6 88.9 55.6 86.1	100.0 94.6 89.3 88.7 70.8 86.9 79.8 64.9 86.9	99 88 88 55 88 55 77

	All	Univer	sities	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
At campuses where these services are provided, the percentage of survey page 1	articipants who					
agree/strongly agree that their campus should provide these technology-bas	ed resources					
and services for students, faculty, and staff						
Email accounts for faculty, staff and administrators	99.3	100.0	100.0	97.2	100.0	98.9
Email accounts for students	93.4	92.9	96.9	91.7	94.6	91.5
Public computer labs	92.3	94.3	83.9	96.9	91.9	91.4
Video lecture capture	100.0	100.0	100.0	100.0	100.0	100.0
Email services for alumni (accounts or forwarding)	82.5	93.6	89.7	84.6	78.5	75.0
IT help desk services on evenings and weekends	98.6	100.0	100.0	98.2	97.4	100.0
Audio lecture capture	97.8	97.9	93.3	98.1	97.8	100.0
Free (paper) printing services for students	77.3	64.5	85.7	79.1	78.3	77.8
ePortfolio services for students	96.5	96.3	100.0	95.5	95.5	100.0
3D printing for students	92.2	86.1	100.0	97.1	89.5	95.0
On-site computer repair services for students	86.0	81.3	88.9	92.9	85.9	75.0
ePortfolio services for faculty and staff	94.4	100.0	100.0	95.5	89.6	100.0
Computer resale program	77.0	78.3	90.0	92.9	59.0	100.0
THIS YEAR'S COMPUTING BUDGET COMPARED TO LAST YEAR'S	PUDCET (~	propries				
	bober (pe	arcentages)				
Total computing budget for central IT services  Reduced >5%	10.6	5.3		6.9	14.3	13.6
	10.6		- 0.4			
Reduced 4-5%	6.0	7.0	9.4	12.5	2.4	5.7
Reduced 1-3%	12.7	22.8	18.8	11.1	7.1	15.9
No change	34.3	29.8	18.8	34.7	33.3	44.3
Increased 1-3%	27.1	29.8	43.8	25.0	32.1	11.4
Increased 4-5%	4.1	-	6.3	5.6	4.8	3.4
Increased >5%	5.3	5.3	3.1	4.2	6.0	5.7
Computer purchases by academic departments	7.4	2.5		0.2	7.1	10 5
Reduced >5% Reduced 4-5%	7.4 5.0	3.5 8.8	3.1	8.3 8.3	7.1 3.6	12.5 3.4
	10.8	14.0	12.5		5.6 6.6	3.4 14.8
Reduced 1-3%	63.6	57.9	65.6	12.5 56.9	70.8	58.0
No change Increased 1-3%		15.8	18.8	12.5	10.6	
Increased 4-5%	11.3	10.0	10.0	12.5	10.1	6.8 3.4
Increased 4-5%	0.5	-	-	-	0.6	1.1
All institutional purchases of desktop / notebook computers	0.5	-	-		0.0	1.1
Reduced >5%	7.2	1.8	_	6.9	8.3	11.4
Reduced 4-5%	4.6	8.8	6.3	6.9	3.0	2.3
Reduced 4-5 % Reduced 1-3%	13.4	17.5	15.6	11.1	10.1	18.2
No change	57.8	59.7	62.5	59.7	58.3	52.3
Increased 1-3%	13.7	10.5	15.6	15.3	16.7	8.0
Increased 4-5%	2.2	1.8	10.0	10.0	2.4	4.6
Increased >5%	1.2	-	_	_	1.2	3.4
Institutional support for public computer labs	1.2				1.2	0.1
Reduced >5%	5.3	5.3	3.1	4.2	6.6	4.6
Reduced 4-5%	4.6	1.8	6.3	6.9	4.2	4.6
Reduced 1-3%	13.7	26.3	9.4	13.9	12.5	9.1
No change	67.4	59.7	68.8	59.7	69.6	73.9
Increased 1-3%	7.9	7.0	9.4	12.5	6.6	6.8
Increased 4-5%	0.5	-	-	-	0.6	1.1
Increased >5%	0.7	_	3.1	2.8	-	-
Network servers						
Reduced >5%	3.6	1.8	-	1.4	5.4	4.6
Reduced 4-5%	3.6	3.5	3.1	4.2	1.8	6.8
Reduced 1-3%	9.1	14.0	9.4	8.3	7.7	9.1
No change	60.0	56.1	65.6	51.4	60.1	67.1
Increased 1-3%	16.3	14.0	15.6	22.2	19.1	8.0
Increased 4-5%	2.9	1.8	-	5.6	3.6	1.1
	4.6	8.8	6.3	6.9	2.4	3.4

	All	Univers	sities	MA & BA (	Colleges	Community	
	Institutions	Public	Private	Public	Private	Colleges	
This Year's Computing Budget Compared to Last Year's Budget (continued)							
Server software and related products							
Reduced >5%	2.9	1.8	-	1.4	4.2	3.4	
Reduced 4-5%	2.4	1.8	3.1	2.8	1.2	4.6	
Reduced 1-3%	6.5	14.0	3.1	5.6	5.4	5.7	
No change	58.0	40.4	65.6	59.7	60.1	61.4	
Increased 1-3%	24.5	36.8	21.9	25.0	24.4	17.1	
Increased 4-5%	3.1	1.8	3.1	2.8	2.4	5.7	
Increased >5%	2.6	3.5	3.1	2.8	2.4	2.3	
Wireless networks							
Reduced >5%	2.6	-	-	2.8	3.6	3.4	
Reduced 4-5%	0.5	-	-	-	0.6	1.1	
Reduced 1-3%	2.4	3.5	-	4.2	1.8	2.3	
No change	43.9	36.8	37.5	37.5	47.0	50.0	
Increased 1-3%	27.6	29.8	34.4	30.6	26.2	23.9	
Increased 4-5%	11.5	19.3	12.5	12.5	8.9	10.2	
Increased >5%	11.5	10.5	15.6	12.5	11.9	9.1	
User training and support							
Reduced >5%	3.6	1.8	-	4.2	3.6	5.7	
Reduced 4-5%	1.4	-	-	2.8	1.8	1.1	
Reduced 1-3%	7.0	14.0	-	6.9	5.4	8.0	
No change	69.5	73.7	90.6	61.1	68.5	68.2	
Increased 1-3%	14.6	7.0	6.3	22.2	16.1	13.6	
Increased 4-5%	2.6	3.5	-	1.4	4.2	1.1	
Increased >5%	1.2	-	3.1	1.4	0.6	2.3	
Professional development for IT personnel							
Reduced >5%	5.3	1.8	-	2.8	8.3	5.7	
Reduced 4-5%	5.3	7.0	3.1	5.6	3.6	8.0	
Reduced 1-3%	8.9	17.5	9.4	11.1	6.0	6.8	
No change	58.3	45.6	68.8	45.8	66.1	58.0	
Increased 1-3%	17.0	22.8	9.4	29.2	11.3	17.1	
Increased 4-5%	3.4	3.5	6.3	4.2	3.6	1.1	
Increased >5%	1.9	1.8	3.1	1.4	1.2	3.4	
Campus portal services	1.0	1.0	0.1	1	1.2	0.1	
Reduced >5%	2.6	3.5	_	2.8	3.0	2.3	
Reduced 4-5%	1.4	1.8	_	4.2	-	2.3	
Reduced 1-3%	6.2	5.3	6.3	8.3	5.4	6.8	
No change	74.1	79.0	84.4	69.4	75.0	69.3	
Increased 1-3%	8.6	8.8	9.4	8.3	8.3	9.1	
Increased 4-5%	4.3	1.8		4.2	6.0	4.6	
Increased >5%	2.6	-	_	2.8	2.4	5.7	
ERP software and services	2.0		_	2.0	2.7	0.1	
Reduced >5%	1.4	_	_	1.4	1.8	2.3	
Reduced 4-5%	1.2	-		2.8	0.6	2.3	
Reduced 4-3%	2.2	1.8	3.1	4.2	0.6	3.4	
No change	54.0	54.4	53.1	62.5	48.8	56.8	
Increased 1-3%	22.3	29.8	25.0	18.1	22.6	19.3	
			I				
Increased 4-5%	10.6	7.0	6.3	5.6	15.5	9.1	
Increased >5%	8.4	7.0	12.5	5.6	10.1	6.8	
Cloud computing resources / services / migration	1 4 1			4.4	0.4	2.4	
Reduced >5%	1.9	-	-	1.4	2.4	3.4	
Reduced 4-5%	0.7	1.8	-	1.4	-	1.1	
Reduced 1-3%	1.7	1.8	-	2.8	1.2	2.3	
No change	57.3	49.1	46.9	50.0	59.5	68.2	
Increased 1-3%	22.8	24.6	40.6	26.4	21.4	14.8	
Increased 4-5%	10.1	19.3	6.3	9.7	9.5	6.8	
Increased >5%	5.5	3.5	6.3	8.3	6.0	3.4	

	All	Univers	sities	MA & BA	Colleges	Communi
	Institutions	Public	Private	Public	Private	Colleges
his Year's Computing Budget Compared to Last Year's Budget (continued)						
Mobile computing resources / services						
Reduced >5%	1.7	-	-	1.4	1.8	3
Reduced 4-5%	0.5	-	-	1.4	-	1
Reduced 1-3%	2.4	3.5	-	2.8	2.4	2
No change	61.2	50.9	50.0	55.6	71.4	56
Increased 1-3%	24.9	33.3	34.4	25.0	18.5	28
Increased 4-5%	6.2	8.8	12.5	9.7	3.0	5
Increased >5%	3.1	3.5	3.1	4.2	3.0	2
External service providers						
Reduced >5%	4.3	1.8	-	2.8	6.0	5
Reduced 4-5%	1.9	3.5	-	1.4	1.2	3
Reduced 1-3%	7.2	14.0	-	9.7	6.0	5
No change	62.6	43.9	65.6	69.4	64.9	63
Increased 1-3%	17.5	31.6	25.0	6.9	15.5	18
Increased 4-5%	4.1	3.5	6.3	4.2	4.2	3
Increased >5%	2.4	1.8	3.1	5.6	2.4	-
Security issues						
Reduced >5%	1.9	-	-	2.8	1.8	3
Reduced 4-5%	0.2	-	-	1.4	-	-
Reduced 1-3%	1.7	1.8	-	2.8	1.2	
No change	47.0	33.3	25.0	36.1	55.4	56
Increased 1-3%	28.8	24.6	40.6	36.1	26.8	2
Increased 4-5%	11.3	17.5	18.8	9.7	8.9	1
Increased >5%	9.1	22.8	15.6	11.1	6.0	
Identity management						
Reduced >5%	2.4	_	_	2.8	3.0	;
Reduced 4-5%	0.5	_	_	1.4	-	
Reduced 1-3%	1.4	3.5	_	2.8	0.6	
No change	62.1	45.6	46.9	52.8	70.8	69
Increased 1-3%	21.6	26.3	40.6	25.0	17.3	1
Increased 4-5%	6.5	10.5	3.1	9.7	5.4	'
Increased 4-5%	5.5	14.0	9.4	5.6	3.4	
Consultants for IT projects and services	3.5	14.0	3.4	5.0	3.0	
Reduced >5%	7.0	3.5	3.1	2.8	10.7	
Reduced 4-5%	3.6	3.5 1.8	3.1	4.2	5.4	
Reduced 4-3%	1		31.3			1
	14.4 50.6	22.8 49.1	43.8	18.1 52.8	8.3	l
No change					50.0	5
Increased 1-3%	14.6	12.3	15.6	11.1	15.5	1
Increased 4-5%	5.5	7.0	-	4.2	5.4	
Increased >5%	4.3	3.5	3.1	6.9	4.8	
Data warehousing	44			4.4	4.0	
Reduced >5%	1.4	-	-	1.4	1.8	
Reduced 4-5%	1.0	-	-	-	1.8	
Reduced 1-3%	2.6	1.8	3.1	4.2	3.0	_
No change	71.5	68.4	59.4	59.7	78.0	7
Increased 1-3%	14.2	19.3	28.1	16.7	9.5	1
Increased 4-5%	5.5	5.3	6.3	13.9	3.0	
Increased >5%	3.8	5.3	3.1	4.2	3.0	
CRM services / software						
Reduced >5%	2.2	-	-	1.4	3.0	
Reduced 4-5%	1.2	3.5	-	1.4	-	
Reduced 1-3%	2.4	5.3	6.3	1.4	1.2	
No change	67.9	66.7	65.6	62.5	69.1	7
Increased 1-3%	16.1	10.5	28.1	22.2	14.9	1:
Increased 4-5%	4.3	7.0	-	2.8	5.4	
Increased >5%	6.0	7.0	_	8.3	6.6	

	All	Unive	rsities	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
This Year's Computing Budget Compared to Last Year's Budget (continued)						
Supporting Open Source projects / applications						
Reduced >5%	3.6	3.5	-	2.8	4.2	4.6
Reduced 4-5%	3.4	5.3	3.1	2.8	3.0	3.4
Reduced 1-3%	3.4	7.0	-	4.2	3.6	1.1
No change	80.1	70.2	87.5	84.7	79.8	80.7
Increased 1-3%	7.7	14.0	9.4	4.2	7.1	6.8
Increased 4-5%	1.2	-	-	1.4	0.6	3.4
Increased >5%	0.7	-	-	-	1.8	-
Business Continuity						
Reduced >5%	2.2	-	-	1.4	2.4	4.6
Reduced 4-5%	0.7	-	-	1.4	-	2.3
Reduced 1-3%	2.6	8.8	3.1	5.6	0.6	-
No change	70.5	61.4	62.5	66.7	76.2	71.6
Increased 1-3%	16.6	19.3	28.1	20.8	12.5	14.8
Increased 4-5%	3.8	3.5	6.3	1.4	4.8	3.4
Increased >5%	3.6	7.0	-	2.8	3.6	3.4
Business analytics / Business Intelligence products						
Reduced >5%	2.2	-	-	1.4	2.4	4.6
Reduced 4-5%	1.0	-	-	1.4	0.6	2.3
Reduced 1-3%	2.9	7.0	-	1.4	3.6	1.1
No change	58.8	42.1	59.4	51.4	62.5	68.2
Increased 1-3%	19.9	28.1	28.1	27.8	16.7	11.4
Increased 4-5%	8.9	12.3	9.4	11.1	7.1	8.0
Increased >5%	6.5	10.5	3.1	5.6	7.1	4.6
Emergency communication / notification services						
Reduced >5%	1.4	-	-	1.4	1.8	2.3
Reduced 4-5%	0.5	-	-	-	-	2.3
Reduced 1-3%	1.9	5.3	-	2.8	1.2	1.1
No change	80.6	77.2	81.3	79.2	85.1	75.0
Increased 1-3%	11.3	14.0	15.6	9.7	8.9	13.6
Increased 4-5%	2.9	3.5	3.1	5.6	1.2	3.4
Increased >5%	1.4	-	-	1.4	1.8	2.3
Media management (capture, cataloging, archiving, etc.)						
Reduced >5%	2.4	1.8	-	1.4	2.4	4.6
Reduced 4-5%	1.4	-	3.1	1.4	1.8	1.1
Reduced 1-3%	3.1	5.3	-	5.6	2.4	2.3
No change	64.8	59.7	50.0	59.7	64.9	77.3
Increased 1-3%	20.4	31.6	37.5	19.4	19.6	9.1
Increased 4-5%	5.5	1.8	6.3	6.9	6.0	5.7
Increased >5%	2.4	-	3.1	5.6	3.0	-
THE TECHNOLOGY BUDGET	_					
Percentage of campuses experiencing a mid-year cut in the						
computing budget, 2014-15	22.6	14.0	25.0	15.3	24.6	29.5
Percentage of budget that was cut	2.6	1.4	1.0	1.9	3.1	3.7
<u> </u>						0.7
Average central IT services budget for 2015-16	\$ 8,800,362	\$25,915,243	\$ 23,943,441	\$ 6,246,996	\$ 3,745,647	\$ 4,061,680
Percentage of the Central IT budget allocated to:						
Hardware	16.6	12.2	14.1	14.7	19.3	16.9
Software	15.2	12.7	11.8	13.3	17.3	15.8
Personnel	52.3	57.8	56.4	58.7	45.8	54.6
Content licenses	6.0	4.1	4.5	5.3	6.9	6.6
User support	14.0	13.8	14.5	14.7	13.9	13.7
Network service / support	13.8	16.4	14.1	11.4	14.8	
Note: numbers may not equal 100% because of overlapping budget categories	1 10.0	10.7	17.1	11.7	17.0	12.0
Central IT services as an estimated percentage of total institutional						
computing / IT expenditures	65.8	50.0	65.2	59.0	74.0	65.8
Total institutional computing / IT expenditures as an estimated						
percentage of the total institutional budget	6.3	4.6	4.8		6.3	0.0
percentage of the total institutional budget	0.3	4.0	4.0	5.7	0.3	8.3

		All		Unive	rsitie	es		MA & BA Colleges		Community	
	Ins	stitutions	L	Public		Private		Public		Private	Colleges
Average annual expenditures for software licensing and maintenance fees pa	id										
to vendors for software and services for the following ERP, administrative, an	d										
instructional applications systems for 2014-15:											
Alumni / Advancement / Development	\$	49,539	\$	140,558		100,991	\$	31,452		34,315	\$ 11,369
Business Intelligence / Big Data analytics	\$	75,130	\$	208,039		69,599	\$	88,885		26,227	\$ 43,855
CRM	\$	62,673	\$	106,026		117,641	\$	42,729		55,833	
Finance / Accounting	\$	159,775	\$	393,032		519,419	\$	99,457		56,722	
ePortfolio services	\$	14,703	\$	23,585		44,134	\$	8,191		10,507	
Grants and Research Management	\$	53,020	\$	178,188		84,183	\$	23,459		4,473	
Learning management systems Lecture capture and campus video management	\$	128,411 45,418	\$	276,769 150,060		174,137 47,242	\$	125,492 31,515		78,290 18,851	\$ 94,778 \$ 17,793
Library system management	\$	77,703	\$	245,813		80,196	\$	60,099		48,977	\$ 17,793
Human resources (recruitment)	\$	33,204	\$	84,239		38,326	\$	35,957		16,711	\$ 18,528
Human resources (HR records and payroll)	\$	130,101	\$	532,910		227,233	\$	41,067		35,969	\$ 42,042
Student information system	\$	219,449	\$	619,727		308,038	\$	150,384		112,957	\$ 154,634
	۳	210,440	۳	010,121	Ψ	000,000	Ψ	100,004	Ψ	112,001	Ψ 10-1,00-1
Current replacement cycle for institutionally-owned desktop / notebook											
computers (percentages)											
Student labs											
1 year		- 17		-		- 21		- 1.4		- 2.4	- 11
2 years		1.7				3.1					1.1
3 years		28.9		25.0 53.6		46.9		16.7 50.0		33.3 51.2	26.1 36.4
4 years		47.8				46.9					
5 years		21.6		21.4		3.1	_	31.9		13.1	36.4
Faculty offices											
1 year		- 0.5		-		-		1.4		-	-
2 years		0.5		- 16.1		- 20.4		16.7		0.6 19.6	-
3 years 4 years		16.6 51.0		51.8		28.1 56.3		44.4		58.9	6.8 38.6
4 years 5 years		32.0		32.1		15.6		37.5		20.8	54.6
Administrative offices		32.0		32.1		13.0		37.3		20.0	54.0
1 year				_		_				_	_
2 years		0.2		-		-		_		0.6	_
3 years		11.5		10.7		9.4		5.6		17.3	6.8
4 years		52.6		57.1		78.1		47.2		56.6	37.5
5 years		35.6		32.1		12.5		47.2		25.6	55.7
Replacement cycle for institutionally-owned tablets (percentages)											
Student labs											
1 year		-		-		-		-		-	_
2 years		4.3		1.8		6.3		5.6		6.0	1.1
3 years		31.6		42.1		40.6		34.7		26.5	28.4
4 years		29.2		26.3		31.3		29.2		30.1	28.4
5 years		34.9		29.8		21.9		30.6		37.4	42.1
Faculty offices											
1 year		-		-		-		-		-	-
2 years		3.6		-		6.3		2.8		6.6	-
3 years		29.4		40.4		37.5		30.6		24.1	28.4
4 years		32.5		24.6		40.6		31.9		34.9	30.7
5 years		34.5		35.1		15.6		34.7		34.3	40.9
Administrative offices											
1 year		-		-		-		-		-	-
2 years		3.4		1.8		9.4		1.4		5.4	-
3 years		28.4		35.1		28.1		30.6		25.9	27.3
4 years		32.8		29.8		46.9		31.9		32.5	30.7
5 years	_	35.4		33.3		15.6		36.1		36.1	42.1
Does your institution have a financial plan to upgrade / enhance /											
replace the campus network (including wireless network?) (percentages)											
No current plan / policy		5.5		3.5		6.3		5.6		4.2	9.1
Under discussion / development		23.0		28.1		9.4		27.8		23.2	20.5
Currently funded network replacement / upgrade plan		71.5		68.4		84.4		66.7		72.6	70.5

	All	Univers	ities	MA & BA C	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
As of September 2015, will your institution have an operational						
campus-wide (emergency) notification system? (percentages)						
No	1.4	-	-	1.4	1.8	2.
Yes	98.6	100.0	100.0	98.6	98.2	97.
As of September 2015, will your institution use a third party provider for						
notification software or services?						
No	3.7	1.8	-	8.5	2.4	4.
If yes, indicate the name of the company that your campus uses for notificat						
3n / Everbridge	3.1	3.6	6.5	3.1	2.5	2.
Blackboard Connect	29.2	26.8	38.7	29.2	28.0	29.
CampusCruiser	0.3	-	-	-	0.6	_
E2Campus	17.3	10.7	6.5	12.3	21.7	21.
MIR3	0.8	1.8	3.2	1.5		
Rave Mobile	32.0	35.7	29.0	38.5	30.4	28.
SchoolMessenger	0.8	-		-	1.2	1.
Send Word Now	2.5	3.6	9.7	3.1	0.6	2.
Swiftreach Networks		-	-	-	-	
Other	14.2	17.9	6.5	12.3	14.9	14.
Over the past year (2014-15), did you activate your notification service?	17.2	17.5	0.0	12.0	17.0	17.
No	18.0	16.1	19.4	13.8	21.7	14.
If yes, for what purpose did you activate your notification service?	10.0	10.1	10.7	10.0	۷۱	14.
Emergency notification	83.0	91.5	68.0	83.9	82.5	82.
Student recruitment (contacting prospective students)	5.6	4.3	- 00.0	-	4.8	14.
Severe weather alerts	82.4	91.5	76.0	76.8	84.1	80.
Student services (academic services for current students)	12.0	12.8	4.0	3.6	5.6	32.
Alumni contact / services	0.9	2.1		5.0	0.8	1.
Other	18.2	25.5	28.0	17.9	13.5	18.
Other	10.2	25.5	20.0	17.5	10.0	10.
WEB AND NETWORKING ISSUES						
How important are the following issues on your campus?						
means: scale from 1="not important" to 7="very important".						
Network security	6.5	6.7	6.6	6.7	6.4	6.
Disaster recovery	6.0	5.9	5.9	6.3	5.9	5.
Replacement cycle for network infrastructure	5.9	6.3	5.9	6.0	5.7	5.
Identity management	5.9	6.2	6.1	6.2	5.6	5.
Data encryption	5.7	5.9	5.9	6.0	5.5	5.
IT Disaster Communications Capacity	5.6	5.8	5.6	5.9	5.4	5.
Video / rich media streaming	5.5	5.7	5.9	5.5	5.6	5.
Cloud computing	5.5	5.7	5.9	5.7	5.4	5.
VoIP	5.5	5.9	5.5	5.7	5.3	5.
BYOD (Bring your own device) support	5.5	5.6	5.2	5.7	5.4	5.
Virtual private networks (VPN)	5.3	5.7	5.5	5.5	5.1	5.
100Gb Ethernet	5.1	6.2	5.4	5.4	4.7	4.
Guest access / services on the campus network	5.1	5.5	5.4	5.3	5.0	4.
Digital image libraries / archives	4.8	4.8	5.1	4.9	4.8	4.
Bandwidth for Software as a Service / SaaS applications	4.8	4.0	5.2	5.0	4.0	4.
	4.0	4.8	4.8	4.8	5.3	3.
Bandwidth for student entertainment (Netflix, YouTube, gaming, etc.)	1					
Digital privacy	4.7	5.2	4.9	5.0	4.6	4.
Collaborative agreements with other institutions and community agencies	4.5	5.0	3.9	4.8	4.1	4
The Internet of Things	4.1	4.9	3.9	4.3	4.0	3
Large data sets and 3D modeling / file sharing	3.8	5.0	4.8	3.9	3.5	3.
Internet2	3.7	5.7	4.9	4.2	3.0	2.
Net+ services from Internet2	3.2	4.9	4.0	3.8	2.6	2.
Statenets / Statenet services	3.0	4.3	3.0	3.4	2.5	2
Does your institution charge students for printing? (percentages)						
No	20.6	7.0	-	13.9	31.6	21.
Annual / term fee for all printing	1.7	1.8	-	5.6	0.6	1.
Annual / term fee for specific number of pages	16.1	17.5	9.4	18.1	19.6	9.
Pay for use / individual page charges	41.7	61.4	56.3	56.9	21.4	50.
Other payment plan for printing services	19.9	12.3	34.4	5.6	26.8	18.

	All	Univers	ities	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
Is your institution reviewing or converting to Cloud Services for the						
following applications: (percentages)						
Calendaring						
No	25.2	15.8	18.8	22.5	23.2	39.8
Under review	20.4	28.1	18.8	23.9	16.7	20.5
Converting to / now using	54.3	56.1	62.5	53.5	60.1	39.8
Administrative computing / ERP services			02.0			
No	57.9	49.1	53.1	46.5	63.7	63.6
Under review	29.8	47.4	25.0	36.6	25.6	22.7
Converting to / now using	12.3	3.5	21.9	16.9	10.7	13.6
CRM services	12.0	0.0	21.0	10.0	10.7	10.0
No	41.4	42.1	34.4	36.6	33.9	61.4
Under review	25.2	36.8	34.4	25.4	22.0	20.5
	33.4	21.1	31.3	38.0	44.1	18.2
Converting to / now using	33.4	21.1	31.3	36.0	44.1	10.2
Learning management systems / LMS services No	26.2	22.8	21.9	22.5	29.2	27.3
Under review	l l					
	21.6	40.4	25.0	14.1	22.0	13.6
Converting to / now using	52.2	36.8	53.1	63.4	48.8	59.1
Research and HPC activities	20.5	4- 4	,,,	22.2		
No .	68.8	47.4	43.8	60.6	72.6	90.9
Under review	22.8	45.6	37.5	31.0	17.9	5.7
Converting to / now using	8.4	7.0	18.8	8.5	9.5	3.4
Storage / archiving / business continuity						
No	25.7	24.6	9.4	16.9	25.0	40.9
Under review	53.9	68.4	56.3	54.9	50.6	48.9
Converting to / now using	20.4	7.0	34.4	28.2	24.4	10.2
Document management						
No	47.4	49.1	50.0	38.0	51.2	45.5
Under review	36.1	33.3	31.3	42.3	36.9	33.0
Converting to / now using	16.6	17.5	18.8	19.7	11.9	21.6
Is your institution reviewing or converting to outsourced / hosted application	ons:					
Hosted / outsourced email						
Students						
No No	5.0	1.8	3.1	5.6	4.2	9.1
Under review	9.1	5.3	15.6	4.2	13.1	5.7
Converting to / now using	85.9	93.0	81.3	90.3	82.7	85.2
Faculty						
No	21.3	14.0	28.1	22.2	15.5	34.1
Under review	23.5	26.3	12.5	25.0	22.0	27.3
Converting to / now using	55.2	59.7	59.4	52.8	62.5	38.6
Provider		00.1	00.1	02.0	02.0	00.0
Google	47.3	51.8	55.2	49.3	51.9	30.9
Microsoft	52.4	46.4	44.8	50.7	48.1	69.1
Zimbra	0.3	1.8	44.0	-	-	-
Hosted / outsourced "office" applications	0.5	1.0				
No	17.6	10 E	0.4	18.1	15 5	28.7
	17.6	10.5	9.4		15.5	
Under review	28.4	22.8	28.1	27.8	29.2	31.0
Converting to / now using	54.1	66.7	62.5	54.2	55.4	40.2
Percent now reviewing:					4= 0	
Google Apps / Docs for education	11.5	8.3	-	-	17.0	15.4
Microsoft Live @ EDU / Office 365 for education	88.5	91.7	100.0	100.0	83.0	84.6
Percent converting to / now using:						
Google Apps / Docs for education	38.7	65.8	50.0	61.5	51.6	88.6
Microsoft Live @ EDU / Office 365 for education	61.3	38.0	20.0	39.0	93.0	35.0
ODCANIZATION DI ANNINC AND IMPACTICCUES						
ORGANIZATION, PLANNING AND IMPACT ISSUES						
Has your institution reorganized computing / information service units						
within the past 2 years? (percentages)						
Central IT services	53.6	68.4	65.6	56.9	51.8	40.2
Libraries	17.1	12.3	28.1	15.3	19.0	13.8
Telecom	31.3	35.1	31.3	34.7	31.5	25.3

	All	Universi	ties	MA & BA	Colleges	Community
	Institutions	Public	Private	Public	Private	Colleges
Do you anticipate a reorganization of computing / information services						
within the next 2 years? (percentages)						
Central IT services	45.1	66.7	56.3	48.6	38.1	37.5
Libraries	19.4	14.0	21.9	25.0	21.4	13.6
Telecom	27.3	26.3	18.8	33.3	28.6	23.9
Percentage of campuses that reorganized IT units in the past two years						
and expect to reorganize IT units again in the next two years?						
Central IT services	30.5	47.4	40.6	31.9	26.8	21.6
Libraries	6.2	3.5	15.6	5.6	8.3	1.1
Telecom	13.2	15.8	6.3	15.3	14.3	10.2
Does institution have a chief information / technology officer (CIO / CTO)?						
No	11.1	-	-	5.6	14.3	20.7
Currently under discussion	1.9	1.8	-	-	3.0	2.3
Yes	87.0	98.3	100.0	94.4	82.7	77.0
Which academic and operational units report to the CIO / CTO?						
Academic computing	89.8	94.6	90.6	85.3	92.1	85.1
Administrative computing	98.3	96.4	100.0	98.5	99.3	97.0
Libraries	11.9	5.4	12.5	5.9	18.0	10.4
Institutional research / analytics	12.2	12.5	9.4	8.8	12.2	16.4
Media center / services	72.1	64.3	75.0	73.5	76.3	67.2
Telecommunications	95.3	98.2	96.9	97.1	94.2	92.5
Distance / online education programs	23.2	14.3	28.1	20.6	23.7	29.9
Is the CIO (or senior institutional computing / IT officer) a member of the						
president's cabinet / executive committee?	61.9	62.5	87.5	63.2	52.5	67.2
Does your campus have a	01.0	02.0	07.0	00.2	02.0	07.2
Chief / senior learning or instructional officer	26.4	26.3	21.9	27.8	16.1	46.6
Chief / senior security officer	42.3	82.5	75.0	56.9	24.6	26.1
Chief / senior data officer	11.8	15.8	15.6	15.3	4.8	18.2
Chief / senior officer for online education	36.0	61.4	34.4	44.4	19.0	45.5
Chief / senior officer for innovation	7.7	10.5	12.5	11.1	6.5	3.4
			12.0		0.0	0.1
Does your institution have a board / trustee committee on computing / inform No	64.9	g <b>y</b> r 63.2	50.0	50.0	68.5	77.0
Under discussion	6.3	3.5	18.8	5.6	5.4	5.8
To begin in A/Y 2015-16	1.7	1.8	3.1	2.8	1.8	3.0
Yes, current board committee on computing / IT issues	27.2	31.6	28.1	41.7	24.4	17.2
Which unit provides tech support for most departmental computer labs?	21.2	31.0	20.1	71.7	27.7	17.2
Individual department	5.5	17.5	21.9	5.6	1.2	_
Central IT service unit	70.2	24.6	40.6	62.5	85.7	87.4
Both	24.3	57.9	37.5	31.9	13.1	12.6
		51.5	31.3	31.3	10.1	12.0
Which statement below best describes the way your campus manages the ins	stitutional					
presence and messaging on Facebook, Twitter, and other social media						
Individual departments operate with great autonomy.	32.9	47.4	25.0	37.5	32.7	23.0
A central office monitors the activities of individual departments and units but						
we do not have broad institutional policies or guidelines for social media.	27.4	31.6	34.4	26.4	26.2	25.3
A central office is responsible for setting the overall policies for and						
monitoring activities for individual departments and units.	39.7	21.1	40.6	36.1	41.1	51.7
What types of security incidents did your campus experience						
in the past year (2014-15)? (percentages)						
Theft of computer, phone, tablet, thumb drive, or other device						
device containing confidential data files	38.8	54.4	62.5	37.5	32.7	33.0
,	1 45.0	66.7	62.5	52.8	35.1	39.8
Hack / attack on the campus network	45.6				6.0	4.5
	13.4	40.4	18.8	18.1	0.0	١٠
Hack / attack on the campus network	1 1		18.8 21.9	18.1 8.3	3.0	3.4
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files	13.4	40.4	1			
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files	13.4 8.6	40.4 26.3	21.9	8.3	3.0	3.4
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files	13.4 8.6 5.5	40.4 26.3 28.1	21.9 9.4	8.3 2.8	3.0 1.2	3.4 - 4.5
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files Other attack on institutional data files Identity management issues	13.4 8.6 5.5 11.0	40.4 26.3 28.1 28.1	21.9 9.4 25.0	8.3 2.8 15.3	3.0 1.2 4.2	3.4 - 4.5 20.5
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files Other attack on institutional data files	13.4 8.6 5.5 11.0 30.2	40.4 26.3 28.1 28.1 56.1	21.9 9.4 25.0 28.1	8.3 2.8 15.3 36.1	3.0 1.2 4.2 24.4	3.4 - 4.5 20.5 6.8
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files Other attack on institutional data files Identity management issues Major computer virus infestation Major spyware / malware infestation	13.4 8.6 5.5 11.0 30.2 10.6	40.4 26.3 28.1 28.1 56.1 14.0	21.9 9.4 25.0 28.1 21.9	8.3 2.8 15.3 36.1 11.1 6.9	3.0 1.2 4.2 24.4 8.9	3.4 - 4.5 20.5 6.8 8.0
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files Other attack on institutional data files Identity management issues Major computer virus infestation Major spyware / malware infestation Student security "incident" related to social networking sites	13.4 8.6 5.5 11.0 30.2 10.6 9.8	40.4 26.3 28.1 28.1 56.1 14.0 17.5	21.9 9.4 25.0 28.1 21.9 9.4	8.3 2.8 15.3 36.1 11.1	3.0 1.2 4.2 24.4 8.9 9.5	3.4 - 4.5 20.5 6.8 8.0
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files Other attack on institutional data files Identity management issues Major computer virus infestation Major spyware / malware infestation	13.4 8.6 5.5 11.0 30.2 10.6 9.8	40.4 26.3 28.1 28.1 56.1 14.0 17.5	21.9 9.4 25.0 28.1 21.9 9.4	8.3 2.8 15.3 36.1 11.1 6.9	3.0 1.2 4.2 24.4 8.9 9.5	3.4 - 4.5 20.5 6.8 8.0 10.2
Hack / attack on the campus network Hack / attack on student / personnel / alumni data files Hack / attack on administrative / financial files Hack / attack on research data files Other attack on institutional data files Identity management issues Major computer virus infestation Major spyware / malware infestation Student security "incident" related to social networking sites Exposure / loss of sensitive data in distributed environment	13.4 8.6 5.5 11.0 30.2 10.6 9.8 20.6	40.4 26.3 28.1 28.1 56.1 14.0 17.5 33.3	21.9 9.4 25.0 28.1 21.9 9.4 28.1	8.3 2.8 15.3 36.1 11.1 6.9 30.6	3.0 1.2 4.2 24.4 8.9 9.5	3.4

	All	Universities		MA & BA Colleges		Community
	Institutions	Public	Private	Public	Private	Colleges
How concerned are you about the following security issues for your						
institution in the coming year?						
percentage reporting "high concern" (6/7); scale: 1=low; 7=high						
Theft of computer, phone, tablet, thumb drive, or other device						
containing confidential data files	33.8	35.7	41.9	36.1	33.9	27.6
Hack / attack on the campus network	32.1	48.2	32.3	23.6	30.4	32.2
Hack / attack on student / personnel / alumni data files	27.1	26.8	32.3	26.4	26.8	26.7
Hack / attack on administrative / financial files	29.7	28.6	32.3	27.8	29.2	32.2
Hack / attack on research data files	14.7	28.6	19.4	9.7	10.1	17.2
Other attack on institutional data files	22.5	23.2	19.4	20.8	21.4	26.4
Identity management issues	28.1	30.4	35.5	25.0	28.0	26.7
Major computer virus infestation	14.0	12.5	6.5	8.3	13.7	23.0
Major spyware / malware infestation	15.9	16.1	9.7	8.3	16.1	24.1
Student security "incident" related to social networking sites	11.1	8.9	12.9	8.3	11.9	12.6
Exposure / loss of sensitive data in distributed environment		0.0		0.0		.2.0
(server not managed by central IT unit)	27.6	51.8	41.9	26.4	18.6	25.3
Intentional employee transgressions affecting IT security	12.8	17.9	9.7	11.1	10.1	17.2
Data security, reliability, or integrity issues involving Cloud services	21.5	25.0	26.7	21.1	17.5	25.6
Bata cocarty, rollability, or integrity locate involving cloud correct	21.0	20.0	20.1	21.1	17.5	20.0
ooking ahead, what's the likelihood that your institution will migrate (or ha	ns					
already migrated) to one or more Cloud / Software as a Service (SaaS) or O						
Source applications by fall 2019? (percent reporting high: scale score 6/7; 1=low; 7=l						
Cloud / Software as a Service (SaaS) Apps	j					
Business Intelligence / Big Data analytics	17.0	22.8	9.4	20.8	17.3	12.5
Collaboration Platforms / Applications	45.3	49.1	46.9	47.2	51.2	29.5
Content Management System	35.3	33.3	31.3	40.3	35.7	33.0
Continuing Education Management Platform	18.2	22.8	31.3	16.7	12.5	22.7
CRM services	43.2	38.6	53.1	41.7	55.4	20.5
Development System	23.3	14.0	25.0	26.4	29.8	13.6
ePortfolio System	38.4	29.8	28.1	50.0	47.0	21.6
Financial System	17.7	14.0	21.9	23.6	15.5	18.2
HR System	27.6	17.5	40.6	22.2	29.8	29.5
Learning Management System	57.6	54.4	65.6	62.5	56.0	55.7
Lecture Capture	32.1	38.6	37.5	33.3	31.5	26.1
Research / Grants Management System	15.6	33.3	18.8	33.3 18.1	11.3	9.1
Student Information System	16.3	7.0	15.6	19.4	19.0	14.8
	28.8		28.1			
Video management	20.0	28.1	20.1	31.9	31.5	21.6
Open Source ERP Apps	[ [	1.0	2.4	0.0	4.0	
Business Intelligence / Big Data analytics	5.3	1.8	3.1	8.3	4.2	8.0
Collaboration Platforms / Applications	12.7	14.0	9.4	15.3	14.3	8.0
Content Management System	21.3	14.0	18.8	27.8	24.4	15.9
Continuing Education Management Platform	3.8	3.5	6.3	5.6	3.6	2.3
CRM services	5.5	3.5	6.3	9.7	4.8	4.5
Development System	3.6	3.5	6.3	6.9	2.4	2.3
ePortfolio System	12.5	17.5	9.4	13.9	14.9	4.5
Financial System	4.8	12.3	-	8.3	2.4	3.4
HR System	3.8	5.3	-	5.6	3.0	4.5
Learning Management System	30.7	24.6	15.6	31.9	40.5	20.5
Lecture Capture	10.6	10.5	6.3	12.5	10.1	11.4
Research / Grants Management System	7.4	17.5	12.5	11.1	2.4	5.7
Student Information System	3.1	3.5	3.1	5.6	1.8	3.4
Video management	7.7	5.3	3.1	9.7	7.7	9.1



# THE CAMPUS COMPUTING PROJECT