# THE 2014 CAMPUS COMPUTING SURVEY



### Summary Materials for Survey Participants



## THE CAMPUS COMPUTING PROJECT

campuscomputing.net October 2014

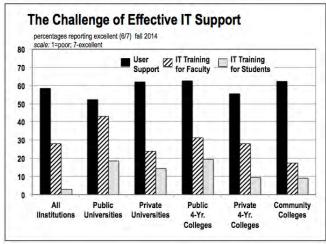
The 2014 National Survey of Computing and Information Technology in US Higher Education

### Campuses Struggle to Provide Effective User Support and IT Training, and Also Digital Access for Disabled Students

Four decades into the "computer revolution in higher education," new data from fall 2014 Campus Computing Survey reveal that although CIOs and senior campus IT officers proclaim IT user support to be one of their top institutional IT priorities, many campuses continue to struggle with providing adequate support services and IT training for students and faculty. The new survey also documents a serious challenge of providing digital resources and services for disabled students, major concerns about IT security on the Cloud, and a big decline in the percentage of IT officers who view MOOCs as offering "a viable model for the effective delivery of online instruction."

#### Campus IT Priorities

Four-fifths (81 percent) of the CIOs and senior campus IT officers who represent the 470 colleges and universities that participated in the fall 2014 survey report that "assisting faculty with the instructional integration of information technology" is a very important institutional IT priority over the next two-three years. Three-fourths (74 percent) also identify "providing adequate user support" as a top campus IT priority. Yet when asked about the quality of user support services and training, just under three-fifths (58 percent) assess the IT user support services at their institution as "excellent." Additionally, less than three-in-ten (28 percent) report that their institution provides "excellent" IT training for faculty while only an eighth (13 percent) rate IT training for students as "excellent."



"Viewed in aggregate, these data document the continuing challenge that CIOs and senior IT officers confront, and faculty and students experience, in the realm of user support" says Kenneth C. Green, founding director of The Campus Computing Project, which is the largest continuing study of IT planning and policy issues in American higher education. Moreover placed in the context of the priority for the "instructional integration of information technology," Green notes that the dismal numbers for faculty and student IT training help to explain the frustration that many faculty experience in their efforts to use technology

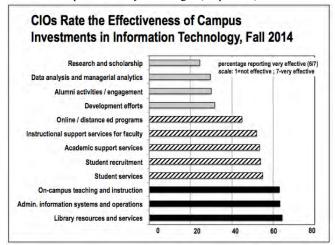
resources effectively for teaching and that students experience when they use technology tools and digital resources for learning. *IT Services for Disabled Students* 

Less than half (47 percent) of the 470 institutions participating in the fall 2014 survey report having a strategic plan for IT compliance with the Americans with Disabilities Act (ADA) mandates; less than one-fifth (19 percent) rate services for disabled students as "excellent" (range: 14 percent in private four-year institutions to 24 percent in community colleges).

"While many IT officials feel that their institutions are making a significant effort to provide access to digital curricular resources and services to disabled students, there is often a large gap between what is offered or available and what the current law mandates,' says Green. Advocates for the disabled are using litigation and also proposing new legislation such as the TEACH Act to cajole campuses into complying with the current ADA mandates.

#### Assessing the Effectiveness of Campus IT Investments

The focus on IT services becomes even more interesting when viewed in the context of how campus IT officers assess the effectiveness of campus investments in information technology. Two-thirds (64 percent) view the campus IT investment to support library resources and services as "very effective," followed by administrative information systems and on-campus teaching and instruction (63 percent), student services (55 percent), and academic support services (53 percent). In contrast, just 30 percent cite the IT investment to support analytics and alumni services as very effective, followed by development efforts (32 percent), and online courses (45 percent). The numbers regarding the effectiveness of IT investments to support research and scholarship understandably vary by sector, highest in universities (51 percent) and lowest in private four-year colleges (25 percent).



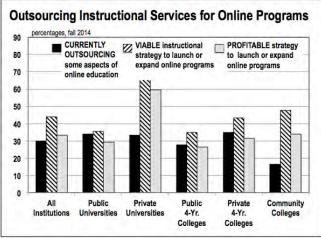
"These data suggest that CIOs and senior campus IT officers assess the effectiveness of IT investments at their institutions as 'okay to good,' but not great," says Green. He acknowledges that across almost all campuses there have long been great expectations

for the role of technology in instruction and campus management, and that both technology providers as well as campus technology advocates and evangelists may have contributed to unrealistic expectations about how quickly an investment in IT could deliver expected gains in instructional outcomes or institutional performance and productivity. "A key responsibility of and challenge for IT leadership is to manage expectations and to communicate the effectiveness of IT investments, both to senior campus officials and also to faculty," says Green.

#### **MOOCs** and Online Education

The 2014 survey data suggest that "MOOC madness" is beginning to decline. Less than two-fifths (38 percent) of the 2014 survey respondents agree that "MOOCs offer a viable model for the effective delivery of online instruction," down from over half (53 percent) in fall 2013. Concurrently, expectations for making money on MOOCs also declined by a third: just a fifth (19 percent) percent agree that MOOCS "offer a viable model for campuses to realize new revenues," down from 29 percent last fall.

Yet even as senior IT officers are less sanguine now about MOOCS, the 2014 data reveal that a small but significant (and slowly growing) number of campuses are contracting with third party providers for various services (recruitment, curricular development, student services) to help develop or expand their online programs.



In aggregate three-in-ten campuses (29 percent) that participated in the 2014 survey report outsourcing for their online programs, compared to 23 percent in fall 2013. The outsourcing numbers range from 35 percent in private four-years colleges to universities to 16 percent in community colleges. However, here as with MOOCs, senior campus IT officers are not upbeat about outsourcing: just 43 percent agree that outsourcing offers a viable instructional strategy for their institution's online efforts while just a third (34 percent) believe that outsourcing provides a viable revenue strategy for their institution's online activities. The clear exception to these low numbers is among IT officers in private universities: two-thirds (67 percent) view outsourcing some aspects of online education as a viable instructional strategy, while three-fifths (59 percent) view it as an effective revenue strategy.

#### Going Mobile

The 2014 survey documents the continuing movement to mobile. More than four-fifths (83 percent) of the campuses participating in this year's survey have activated mobile apps as of fall 2014 or will do so in the coming academic year, compared to 78 percent last year, 60 percent in fall 2012, 42 percent in fall 2011, and 23 percent in fall 2010. Across sectors, public universities lead the movement: 99 percent will be up on mobile apps by the end of the current academic year, followed by 95 percent of private universities, 92 percent of public four-year colleges, and 77 percent of community colleges and 73 percent of private four-year institutions.

What explains these gains in going mobile? "Colleges and universities are clearly playing catch-up with the consumer experience. Students come to campus with their smartphones and tablets expecting to use mobile apps to navigate campus resources and use campus services," says Green. Also of note is that senior campus IT officers now report that tablets and smartphones have higher priority in their IT planning activities: 83 percent cite tablet devices and 82 percent note that smartphones will be "very important" in IT planning over the next two-three years, compared to just 64 percent who cite laptop computers. This focus on mobile devices in IT planning, says Green, "suggests that IT leaders are following the 'Gretsky rule' and are skating to where the digital puck is going."

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

#### Small Gains in Cloud Computing; Some Concerns About IT Security in the Cloud

The proportion of campuses reporting a strategic plan for Cloud computing rose to 29 percent in fall 2014, up from 27 percent last year, 24 percent in 2012, 21 percent in 2011, and 9 percent in 2009. Just 9 percent of the survey participants report that their campus has moved or is converting to Cloud Computing for ERP (administrative) services, compared to 7 percent last year, 6 percent in 2012, and up from 4 percent in 2011 (range: from 19 percent for private universities to 4 percent for private four-year colleges.)

Also, security in the Cloud is a major concern for a significant minority of the survey participants: fully a third (33 percent) disagree that "cloud computing offers a level of data reliability and security that equals or excels the level of security and reliability we can provide with on-campus hosting."

Although almost half (47 percent) of campuses now report running their LMS in the Cloud, less than a tenth of CIOs or senior campus IT officers who participated in the 2014 survey believe that their institution will be running a "high value" application such as finance or student information systems in the Cloud in five years, by fall 2019. However, more than a fourth anticipate that their college or university could deploy a Cloud-based application for collaboration platforms, content management, ePortfiolios, lecture capture, and video management in five years.

The 2014 Campus Computing Survey is based on survey data provided by senior campus IT officials, typically, the CIO, CTO, or other senior campus IT officer, representing 470 two- and four-year public and private/non-profit colleges and universities across the United States. Survey respondents completed the online questionnaire from August 12 through September 22. Copies of the 2014 Campus Computing Survey will be available on December 1<sup>st</sup> from The Campus Computing Project in Encino, CA (campuscomputing.net). Price: \$45, which includes shipping to US addresses.

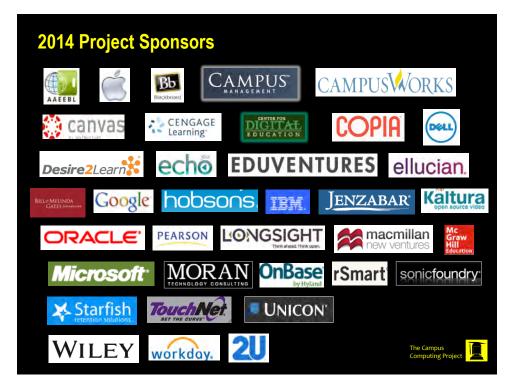
#### THE CAMPUS COMPUTING PROJECT

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 2014 Campus Computing Survey was supported, in part, by the following project sponsors: 2U, AAEEBL, Apple, Blackboard, Campus Management, CampusWorks, Canvas by Instructure, Cengage Learning, The Center for Digital Education, Copia Interactive, Dell, Desire2Learn, Echo360, Eduventures, Ellucian, The Bill and Melina Gates Foundation, Google, Hobsons, IBM Higher Education, Jenzabar, Kaltura, Longsight, Macmillian New Ventures, McGraw-Hill Higher Education, Microsoft, Moran Technology Consulting, Oracle, Pearson, rSmart Group, Sonic Foundry, Starfish Retention Systems, TouchNet Information Systems, Unicon, John Wiley & Sons, Publishers, and Workday.

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### Methodology

- 470 institutional participants
- Web-based data collection
- Survey period: August 13– Sept 22
- 70 pct. of the 2014 participating campuses also completed the 2013 survey





2014 Survey Participants			
<u>Category</u>	Dept of Ed N (adjusted)	Survey N	Participation Rate (%.)
Public Research & Doctoral Universities	168	65	37%
Private Research & Doctoral Universities	92	42	46%
Public 4-Year Colleges (Baccalaureate & Masters)	374	83	22%
Private 4-Year Colleges (Baccalaureate & Masters)	824	171	22%
Associate Degree/ Public Community Colleges	1018	109	11%
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### 2014 Highlights

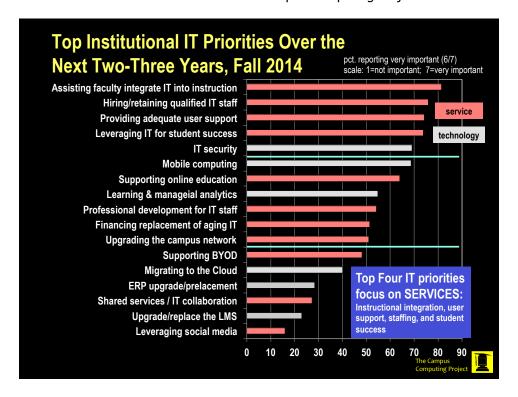
- Top IT priorities focus on instruction, advancing the campus completion agenda, supporting mobile, staffing, and user support
- Campuses are struggling with issues involving access to digital resources and services for disabled students.
- Slow transition to the Clouds continues; Cloud security is a big concern for many.
- Almost half of campuses appear to be creating their own mobile
- Reacting to rising costs for mobile and a sense of "digital entitlement" among students, some campuses are restricting student "uber-user" access to the campus net
- Transitions continue in the LMS market.





New Survey Items for 2014	
	Pct. Agree/Yes
My campus has a written policy/code of conduct governing how students may record classroom lectures, presentations, and discussions.	10.7
My campus should charge access fees to students who consume excess bandwidth – more than 20G weekly.	24.0
Cloud computing services officer a level of data reliability and security that equals or exceeds the level or reliability and security we can provide with on-campus hosting.	57.7
My campus encourages the use of Open Source/OER instructional content for course materials.	32.8
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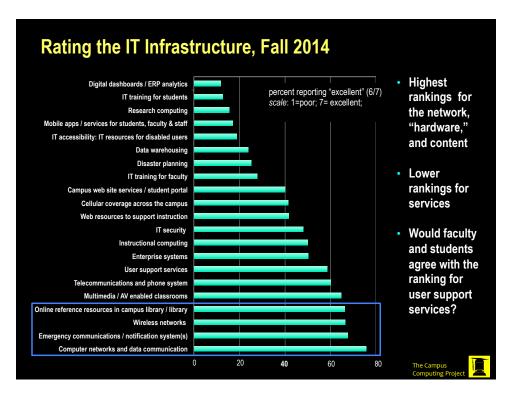




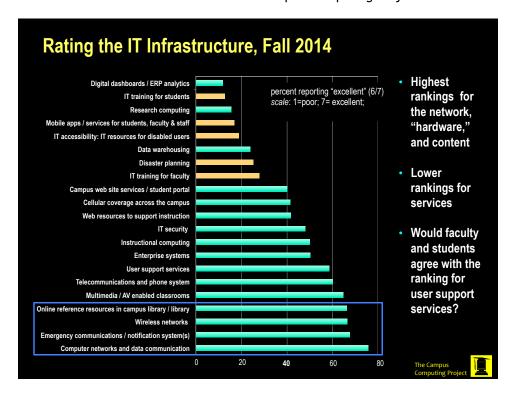
Top Three Institutional IT Priorities by Sector, Fall 2014										
All Campuses	Public Universities	Private Universities	Public 4-Yr. Colleges	Private 4-Yr. Colleges	Community Colleges					
Assisting Faculty Integrate IT into Instruction (81%)	Hiring/ Retaining Qualified IT Staff (86%)	Assisting Faculty Integrate IT into Instruction (90%)	Providing Adequate User Support (85%)	Assisting Faculty Integrate IT into Instruction (81%)	Assisting Faculty Integrate IT into Instruction (80%)					
Hiring/ Retaining Qualified IT Staff (76%)	Assisting Faculty Integrate IT into Instruction (81%)	Enhancing/ Upgrading Network Security (81%)	Leveraging IT for Student Success (84%)	Hiring/ Retaining Qualified IT Staff (72%)	Leveraging IT for Student Success (77%)					
Providing Adequate User Support (75%)	Supporting Online / Distance Education (80%)	Hiring/ Retaining Qualified IT Staff (78%)	Assisting Faculty Integrate IT into Instruction IT Staff (81%)	Providing Adequate User Support (76%)	Supporting Online / Distance Education (76%)					
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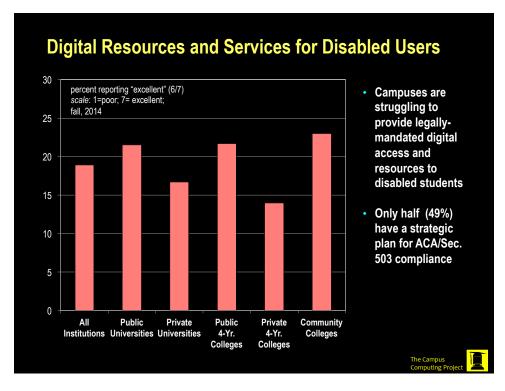


To	Top Institutional IT Priorities, 2014									
	Campus Computing Survey (pct. reporting "very important")	EDUCAUSE "Top 10 IT Issues" (panel assessment)								
1	Assisting faculty integrate technology into instruction (81%)	Improving student outcomes by leveraging technology								
2	Hiring / retaining qualified IT staff (76%)	Establishing partnership between IT leadership and institution leadership about expectations								
3	Providing adequate user support AND Leveraging IT to support student success efforts (74%)	Assisting faculty with the instructional integration of information technology								
4	Implementing/supporting mobile computing AND Upgrading IT Security (69%)	Developing an agile and open IT organizational model to accommodate a changing IT environment								
5	Supporting Online Education (66%)	Using analytics to help drive critical institutional outcomes								
6	Data analysis and managerial analytics (55%)	Changing funding mores to support core services, innovation, and facilitate growth								
7	Professional development for IT personnel (54%)	Developing a sustainable strategy for online ed								
8	IT business continuity & disaster planning (53%)	Sourcing technologies to reduce costs								
9	Financing the Replacement of Aging IT (51%)	Clarifying the role of IT in online learning AND developing support strategies								
10	Supporting BYOD (48%)	IT Security and developing IT architecture to respond to new environments								

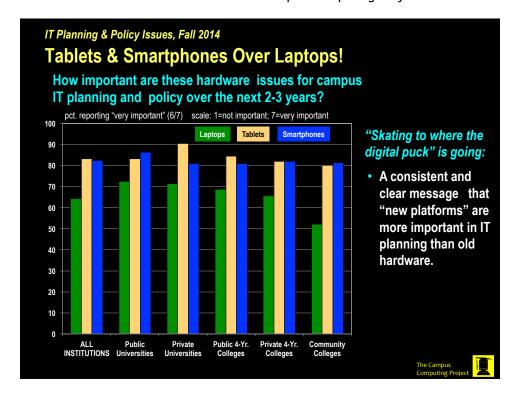


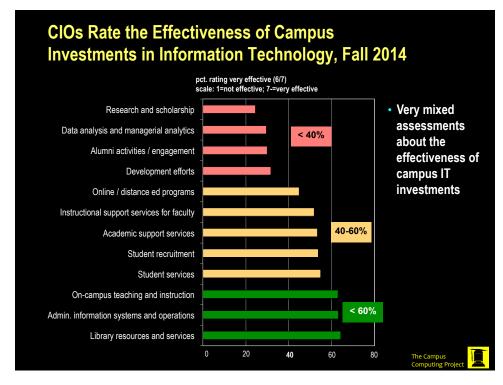




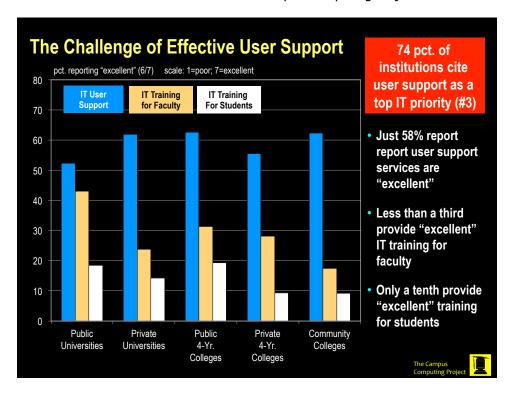


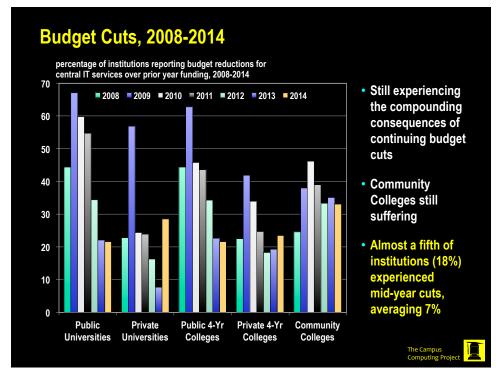














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### **Budget Cuts vs. Budget Gains, Fall 2014**

percentage of institutions reporting budget increases or cuts, by budget category, fall 2014	Increase	Decrease
Total Budget, Central IT	34.4	25.6
Wireless Networks	23.1	16.3
User Training and Support	15.1	18.4
ERP Software and Services	44.6	4.9
Mobile Computing Resources	37.0	3.8
IT Security Issues and Resources	49.0	4.2
Identity Management	35.9	5.0
Business Continuity	26.8	5.6
Business Analytics	34.5	6.0

- Investing in security, cloud, mobility & analytics
- Reduced spending in public labs and for replacement hardware
- Student lab replacement cycle now 3-4 years (74%) vs. 2-3 years (55%) in 2008





### **ERP Expenditures, Fall 2014**

(estimated annual expenditures for licensing and maintenance fees)

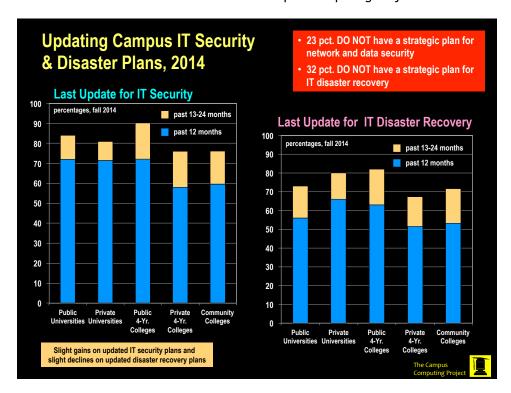
The state of the s	All Universities			4-Year	Community		
means by sector, fall 2014	Institutions	Public	Private	Public	Private	Colleges	
Alumni / Advancement / Development	\$ 52,236	\$ 115,481	\$ 128,963	\$ 31,831	\$ 36,848	\$ 16,874	
Business Intelligence / Data Analytics	74,959	149,565	118,556	72,748	35,797	51,008	
CRM	65,487	108,571	129,296	48,301	54,174	42,851	
Finance / Accounting	159,635	359,789	468,649	130,567	53,704	76,015	
ePortfolio services	31,845	47,942	87,365	16,320	22,647	13,900	
Grants and Research Management	68,027	115,261	140,074	36,270	12,122	18,493	
Learning management systems	145,661	307,432	185,545	123,581	91,308	119,194	
Lecture capture & video management	48,806	123,069	61,317	35,224	22,529	29,266	
Library system management	67,794	152,116	104,282	67,082	49,055	45,378	
Human resources (recruitment)	40,466	78,566	40,389	64,655	21,607	24,970	
Human resources (HR records & payroll)	107,524	277,484	274,406	63,104	38,899	56,324	
Student information system	200,659	411,057	330,986	185,069	109,854	161,493	

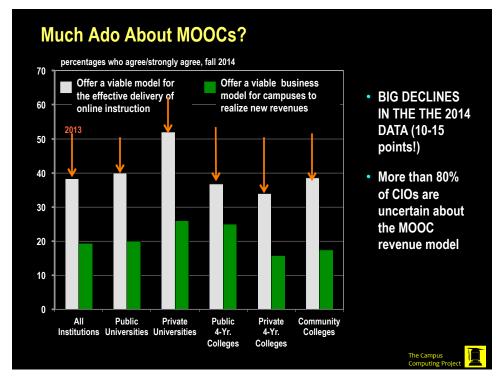
- Core ERP spending accounts for about 9-10% of total central IT expenditures.
- Less dollars for ERP in community colleges but a larger proportion of the IT budget (11-12%)



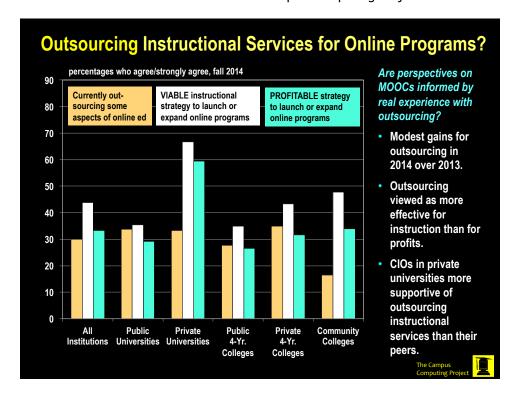


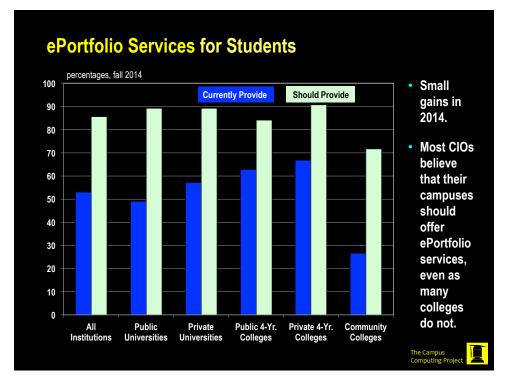




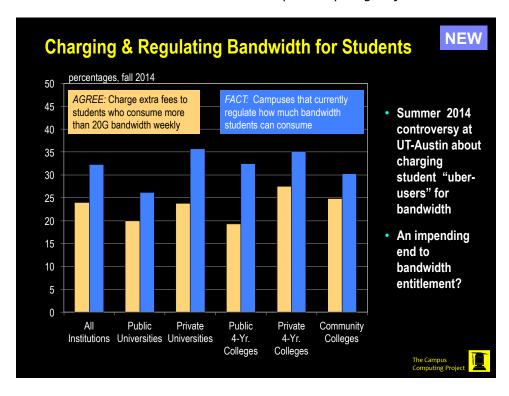


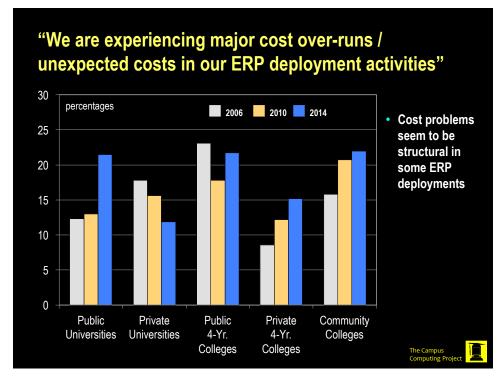




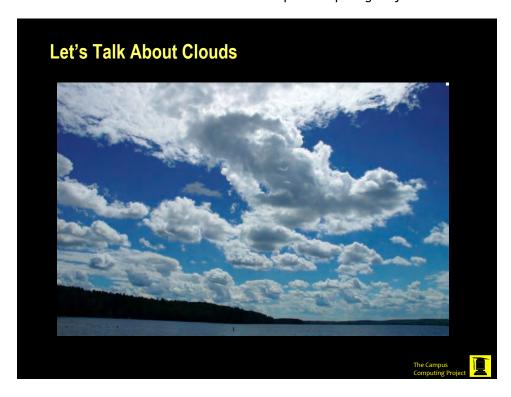


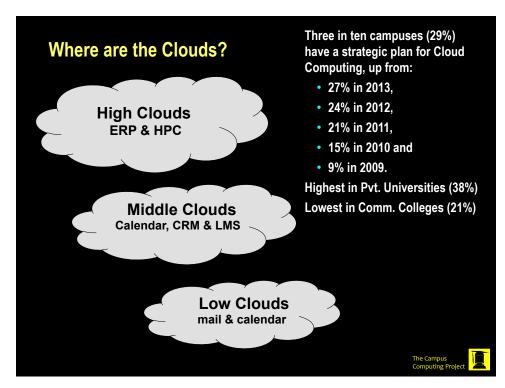




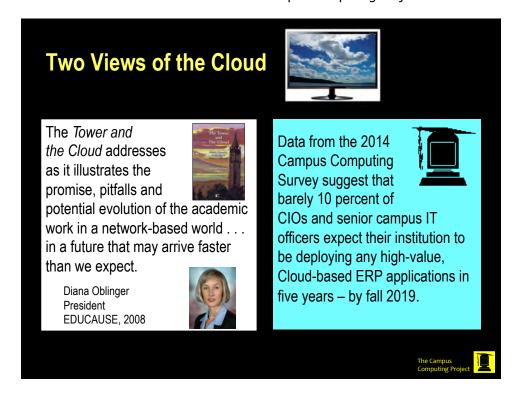


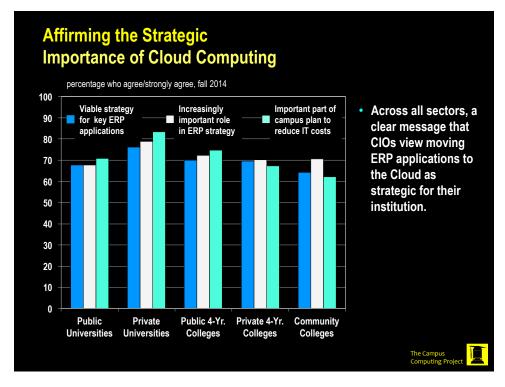




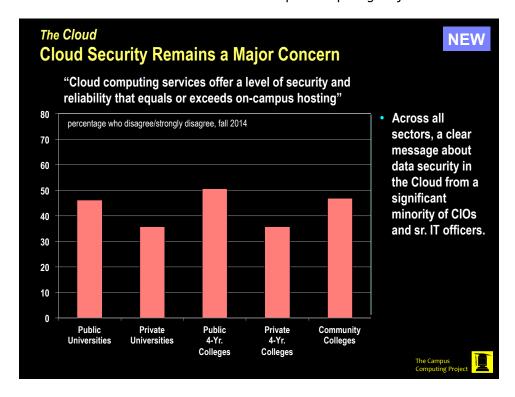


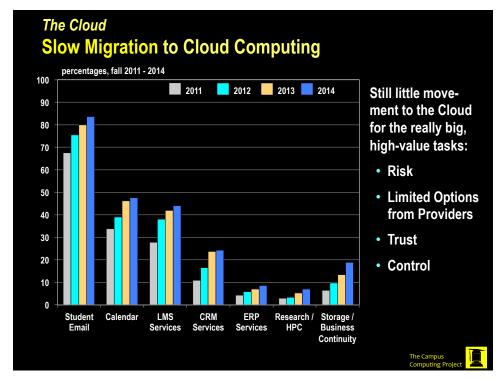




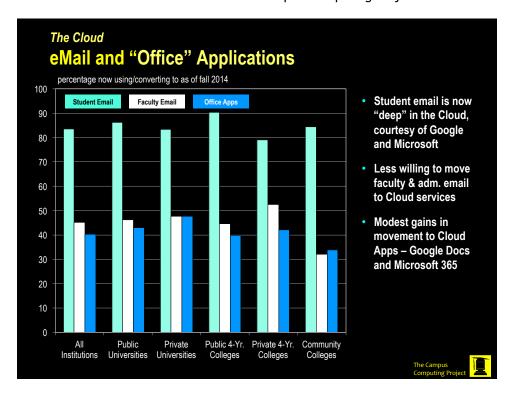


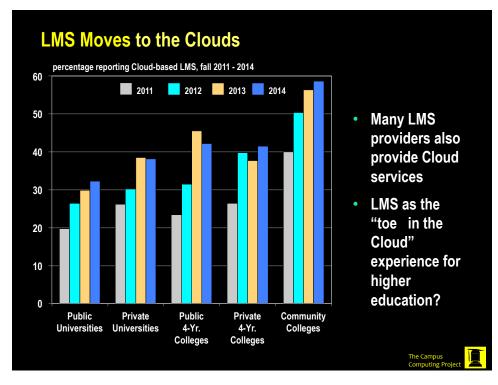




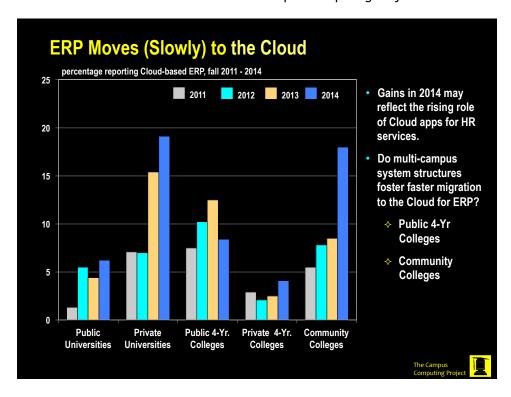


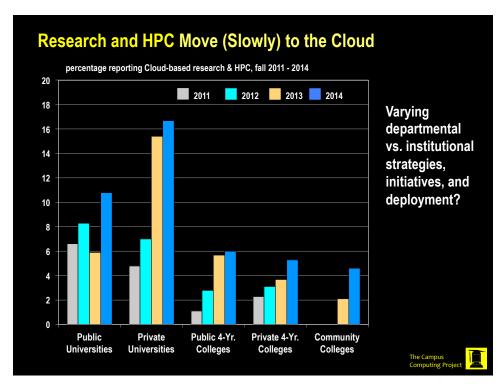




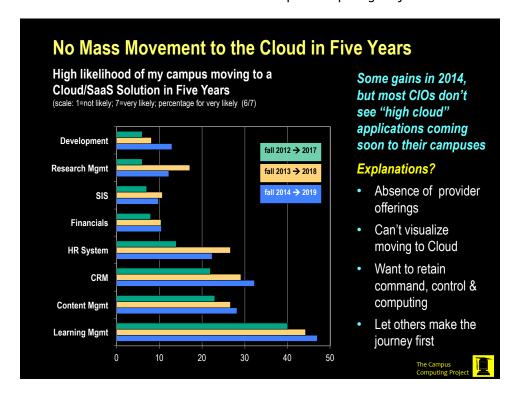


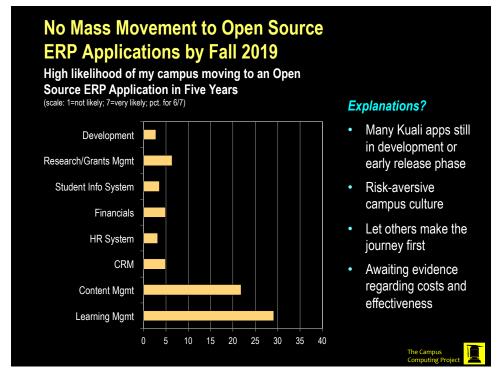




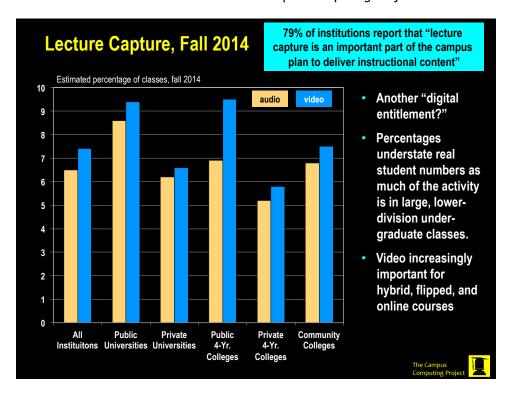






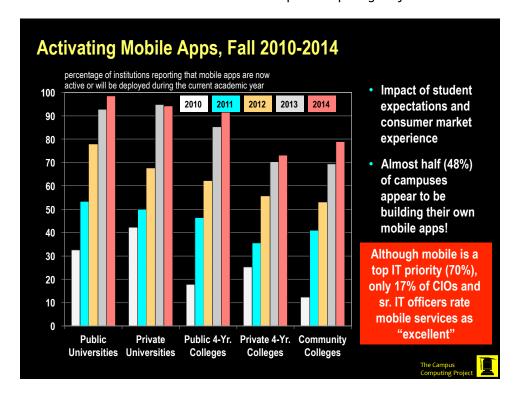






percentage of campu	uses reportir	ng a campu	ıs-standard	LMS			
	All	Pub Univ	Pvt Univ	Pub 4-Yr	Pvt 4-Yr	Comm Coll	<ul> <li>Market presence</li> </ul>
Bb	40.4	55.4	45.2	41.0	34.5	38.5	varies by sector
D2L	10.6	10.8	2.4	20.5	1.2	21.1	Two –thirds
eCollege	1.1					2.8	(64%) of campuses
Instructure	12.6	9.2	16.7	12.1	9.9	17.4	report plans to
Jenzabar	1.9			-	4.7	0.9	review the current LMS
Moodle	21.3	4.6	11.9	20.5	38.0	9.2	strategy for budget or
Sakai	4.3	4.6	11.9	2.4	4.7	1.8	other reasons





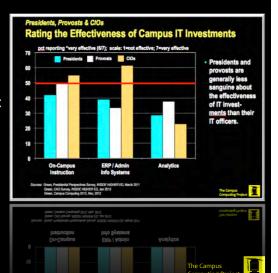




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### Mixed Rating on the Effectiveness of Campus IT Investments

- Very mixed assessments from presidents, provosts, and IT officers about the effectiveness of IT investments
- Unrealistic expectations about the impact on instruction and operations?
- Over-promised and underdelivered?
- "A failure to communicate?"



### The Key Campus Technology Challenges are No Longer about IT

- IT is the "easy part" of IT issues on campus
- THE CHALLENGES: People, planning, policy, programs, priorities, silos, egos, and IT entitlements
- THE OBLIGATION: to create an effective infrastructure that enables students, faculty, and administrators

- Provide much-needed support, recognition, and reward for faculty
- Address the rising level of digital demand in the midst of reduced financial resources for IT (and other key programs & services)
- Communicate about the effectiveness of and need for IT resources – to on- and offcampus audiences







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### The Context of the Campus IT Conversation

#### WHAT DO WE KNOW?

- The consumer experience now defines (still rising) expectations about campus IT resources & services.
- There is rising pressure for higher education to provide the much promised productivity bang for all the IT bucks.

#### TWO KEY ISSUES

- Why don't faculty do more with IT and eLearning?
- Why don't colleges and universities make better use of IT for campus management?





### **Access to Digital Resources and Services for Disabled** Students is an Impending Law Suit for Many Campuses

- Less than half (48%) of campuses have a strategic plan for ADA compliance
- Less than a fifth of CIOs and IT officers assess IT accessibility and resources for disabled students as "excellent"
- Numbers are slightly better in community colleges and public 4-yr. colleges than in other sectors

### WHY ATTENTION **MUST BE PAID**

- Many campuses assign ADA compliance responsibility for course materials to faculty and departments with no training or review
- TEACH Act provisions may be included in the reauthorization of the **Higher Education Act**





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### **Cloud Deployment Issues**



- CAN WE: timetable for Cloud apps from my ERP provider?
- · COULD WE: transition process, both tech and culture
- WHY SHOULD WE: benefits of moving to Cloud-based ERP
- WHAT WILL IT COST: will the Cloud save us money?
- WHEN DO WE: transition schedule? transition issues?
- WHAT CAN OTHERS TELL US: how can we benefit from the experience of others?
- WHAT DON'T WE KNOW TO ASK?
- HOW DO WE ASSESS SUCCESS? What changes?



### **Shameless Self-Promotion!**



 Weekly podcast, posted on Friday

 Goes "behind and beyond" the news

#### Recent programs featured in-depth discussion about:

- 31 million students who did not complete college
- The ASU-Starbucks "BA's for Baristas" agreement
- Leveraging retention efforts on the "murky middle"
- Bandwidth entitlement at UT-Austin
- The future of the LMS
- · High college costs for low-income students

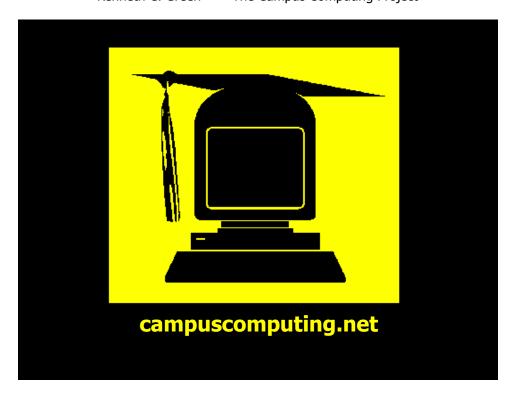
#### **Program Sponsors**

- 2U
- ACT
- Barnes & Noble
- Intel
- Lumina Foundation
- Oracle











	All	Unive	ersities	4-Year	4-Year Colleges	
	Institutions	Public	Private	Public	Private	Colleges
Number of Institutions	470	65	42	83	171	109
GENERAL CAMPUS POLICIES						
Does your institution have a written policy / code of conduct / acceptable or appropriate use policy for: (percentages)						
Campus e-mail accounts?	95.1	96.9	95.2	95.2	94.2	95.4
Campus-hosted individual / personal Web pages?	64.0	73.4	69.0	59.0	63.2	61.5
Fair use of copyrighted content (books, articles, etc.)?	92.8	96.9	92.9	92.8	92.4	90.8
Student use of social networking sites (Facebook, Twitter, etc.)?	35.0	34.4	35.7	24.1	38.6	37.6
Students to record (audio / video) class lectures, presentations, and discussions?	10.7	10.9	9.5	13.3	8.2	12.8
Does your institution have a special computer use / technology fee or						
annual / term computer use charge for all students? (pct. yes)	55.9	70.8	33.3	76.8	40.4	64.2
Average total annual (full-time) student fee or charge for A/Y 2014-15	\$ 237	\$ 223		\$ 214	\$ 323	\$ 155
Does your institution require or strongly recommend: (percentages)						
Computers or laptops for all undergraduate students						
No	49.0	56.9	35.7	46.3	28.7	83.5
Recommend	43.5	36.9	52.4	43.9	60.8	16.5
Require	7.5	6.2	11.9	9.8	10.5	-
Computers or laptops for undergraduates in specific disciplines or academic						
programs	40.7	04.5	00.0	04.7	20.0	70.4
No December	40.7	21.5	28.6	31.7	36.3	70.6
Recommend	36.9	41.5 36.9	42.9	40.2 28.1		16.5 12.5
Require Tablet devices (Android Apple or Microsoft based) for all students	22.4	30.9	28.6	20.1	18.7	12.
Tablet devices (Android, Apple, or Microsoft-based) for all students  No	91.3	93.9	95.2	85.4	93.0	89.9
Recommend	7.9	6.2	4.8	13.4	5.3	10.
Require	0.9	0.2	4.0	1.2	1.8	10.
Tablet devices for students in specific disciplines or academic programs	0.5	_		1.2	1.0	_
No	73.4	66.2	73.8	65.9	76.6	78.0
Recommend	15.4	15.4	11.9	25.6		12.8
Require	11.3	18.5	14.3	8.5	10.5	9.:
As you think about institutional priorities for IT resources and services over the						
next three years, how do you rate the importance of the following IT issues?						
(scale: 1 not important; 7-very important)						
Percent strongly agree (6 / 7)						
Assisting faculty integrate technology into instruction	81.4	81.5	90.5	80.5	80.7	79.8
Migrating to Cloud computing	40.1	47.7	52.4	43.9	38.6	30.3
Financing the replacement of aging hardware / software	51.4	60.0	33.3	52.4	52.0	51.4
Hiring / retaining qualified IT staff	75.9	86.2	78.6	84.1	71.9	68.8
Implementing / supporting mobile computing	68.7	67.7	71.4	68.3	64.9	74.3
Providing adequate user support	74.2	72.3	71.4	85.4	69.6	75.
Supporting online / distance education courses and programs	65.9	80.0	59.5	69.5	53.8	76.
Upgrading / replacing the campus network	51.0	69.2	54.8	56.1	43.9	45.9
Upgrading / replacing administrative IT / ERP systems	28.4	29.2	38.1	25.6	28.7	25.
Upgrading / replacing the current campus Learning Management System (LMS) Upgrading / enhancing network and data security	23.0 69.1	35.4 76.9	31.0 81.0	29.3 69.5	21.1 64.9	11.0 66.
Data analysis / learning and managerial analytics	54.8	58.5	59.5	64.6	49.7	51.4
Digital content management	24.1	29.2	21.4	29.3	20.5	23.9
Supporting / managing BYOD (Bring Your Own Device)	48.2	47.7	42.9	50.0		54.
Professional development for IT personnel (IT staff and senior IT officers)	54.2	50.8	52.4	62.2		53.2
Leveraging IT resources and services to advance the student success /	01.2	00.0	02.1	VZ.Z	02.0	00.2
student completion priorities of my institution	73.8	80.0	64.3	84.1	66.7	77.
Shared services / IT collaboration with other institutions	27.3	38.5	16.7	35.4	22.8	25.
Using / leveraging social media as a resource for instruction	16.0	23.1	4.8	19.5	11.7	20.
IT business continuity / IT disaster planning and recovery	52.5	60.0	45.2	53.7	49.7	54.
Has your institution established a specific single product standard for any of the						
following (i.e., your campus supports only one product or application)?						
Course / learning management system (percentages)						
No	5.7	13.9	9.5	2.4	4.7	3.7
Blackboard (including Angel & WebCT)	40.4	55.4	45.2	41.0	34.5	38.5
CampusCruiser	0.2	-	2.4	-	-	-
Desire2Learn	10.6	10.8	2.4	20.5		21.
eCollege	1.1	-	-	-	1.2	2.8
Instructure (Canvas)	12.6	9.2	16.7	12.1	9.9	17.4
Jenzabar	1.9		-	-	4.7	0.9
Moodle	21.3	4.6	11.9	20.5	38.0	9.1
	4.3	4.6	11.9	2.4		1.
Sakai		1.5	-	1.2	1.2	4.
Other	1.9					i c
Other Lecture capture system (percentages)			<b>25</b> -			
Other  Lecture capture system (percentages)  No	43.8	33.9	35.7	30.1	53.2	48.0
Other  Lecture capture system (percentages)  No Desire2Learn	43.8 0.4	33.9	-	-	1.2	-
Other  Lecture capture system (percentages)  No	43.8				1.2 5.3	48.6 - 1.8 5.5

Lecture capture system (percentages)	All Institutions	Universi Public	ries Private	4-Year Co Public	lleges Private	Communi Colleges
(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	13.0	10.8	14.3	14.5	12.9	12
Panopto	0.4	-	-	-	0.6	(
Polycom	4.9	6.2	7.1	6.0	4.7	:
Sonic Foundry (Mediasite) TechSmith (Camtasia)	7.9	4.6	7.1	12.1	7.6	10
Tegrity	7.3	13.9	2.4	6.0	7.0	(
Vbrick	0.2	-	2.4	-		-
Other	7.5	7.7	7.1	7.2	5.9	10
s of Fall 2014, has your institution activated mobile apps (or mobile interfaces)						
r campus resources and services? (percentages)	0.4	4.5	2.4	2.6	12.5	4.
No Yes	9.4 73.0	1.5 92.3	2.4 85.7	3.6 81.9	13.5 64.9	14 62
Planned for later this academic year (2014-15)	10.2	6.2	9.5	9.6	8.2	16
Currently under review	7.5	-	2.4	4.8	13.5	(
Current / anticipated Mobile App Provider:						
Blackboard	31.3	47.7	28.6	37.3	25.7	26
CampusCruiser	0.6	-	2.4	-	0.6	(
Campus Management	0.2	-	-	-	0.6	
Desire2Learn	5.3	3.1	4.8	9.6	1.2	1
eCollege	0.4	-		-	0.6	
Ellucian / Datatel MOX	12.3	-	7.1	3.6	18.7	1
Ellucian / SunGard Mobile Connection	17.2	20.0	19.0	16.9	15.8	1
Instructure Jenzabar	6.8 6.0	9.2	4.8	3.6	5.8	1
Jenzabar Kauli	1.1	3.1	2.4	2.4	11.1	
Moodlerooms	3.4	1.5	- 2.4	1.2	7.6	
Oracle	2.3	3.1		3.6	1.8	
uMobile	0.6	3.1	_	-	-	
Other	47.2	56.9	73.8	53.0	40.4	3
E USES OF INFORMATION TECHNOLOGY						
v strongly do you agree or strongly agree:* (percentages)						
Faculty have unreasonable expectations about user support services	41.5	38.5	45.2	37.3	43.3	
Technology has done much to improve instruction on my campus	92.3	92.3	92.9	95.2	86.0	10
We are experiencing major cost over-runs / unexpected						
costs in our ERP deployment activities	18.5	21.5	11.9	21.7	15.2	2
Cloud computing offers a viable strategy for key campus ERP applications	68.1	63.1	76.2	69.9	69.6	(
Cloud computing will play an increasingly important						
role in our campus ERP strategy	71.1	67.7	78.6	72.3	70.2	-
Cloud computing is an important part of our campus technology	00.4	70.0	00.0	74.7	07.0	,
plan to reduce IT costs Cloud computing services offer a level of data reliability and security	69.4	70.8	83.3	74.7	67.3	(
that equals or exceeds the level of security and reliability we can						
provide with on-campus hosting	57.7	53.8	64.3	49.4	64.3	
Given the exploding demand for network services, my campus should	37.7	55.0	04.5	45.4	04.5	,
charge access fees for students who consume excess bandwidth						
more than 20Gb of bandwidth weekly	24.0	20.0	23.8	19.3	27.5	:
eBook content will be an important source for instructional	2	20.0	20.0	10.0	27.0	
resources in five years	90.2	89.2	95.2	92.8	86.0	
Open Source textbooks / OER content will be an important source						
for instructional resources in five years	78.9	75.4	83.3	75.9	75.4	:
Lecture capture is an important part of our campus plan						
for delivering instructional content	68.1	84.6	81.0	72.3	59.1	(
Mobile apps are an important part of our campus plan to enhance						
instructional resources and campus services	82.1	92.3	85.7	84.3	75.4	
MOOCs offer a viable academic model for the effective delivery						
of online instruction	38.3	40.0	52.4	38.6	33.9	(
MOOCs offer a viable business model for campuses to accrue	40.4	00.0	00.0	05.0	45.0	
new revenues from online courses.  Outsourcing instructional services (course development, user support, etc.)	19.4	20.0	26.2	25.3	15.8	
offers a viable and effective strategy for many campuses to						
launch/expand online courses and programs	43.8	35.4	66.7	34.9	43.3	
	43.0	30.4	00.7	34.9	43.3	
Outsourcing instructional services (course development, user support, etc.) offers a profitable strategy for many campuses to	33.4	29.2	59.5	26.5	31.6	;
offers a profitable strategy for many campuses to launch / expand online courses and programs	,1.14		20.0	_5.0	51.0	`
offers a profitable strategy for many campuses to launch / expand online courses and programs	33.4		- 1			
offers a profitable strategy for many campuses to launch / expand online courses and programs Senior administrators at my institution (president, provost, CFO, deans,	33.4					
offers a profitable strategy for many campuses to launch / expand online courses and programs	84.7	86.2	83.3	85.5	83.6	8
offers a profitable strategy for many campuses to launch / expand online courses and programs  Senior administrators at my institution (president, provost, CFO, deans, others) view IT as a strategic resource that provides major benefits for my campus		86.2	83.3	85.5	83.6	{
offers a profitable strategy for many campuses to launch / expand online courses and programs  Senior administrators at my institution (president, provost, CFO, deans, others) view IT as a strategic resource that provides major benefits	84.7				83.6 3,674	14,
offers a profitable strategy for many campuses to launch / expand online courses and programs  Senior administrators at my institution (president, provost, CFO, deans, others) view IT as a strategic resource that provides major benefits for my campus		86.2 27,052	83.3 12,252	85.5 11,951		

	All	Univers		4-Year C	•	Commun
	Institutions	Public	Private	Public	Private	College
Proportion of individuals who own desktop or notebook computers (pct.)						
Students	26.1	24.4	14.6	07.0	12.5	
Desktops Notebooks	74.5	24.4 78.2	14.6 85.8	27.3 76.0	13.5 86.5	5
	79.0	78.2 78.2		80.5	82.4	7
Smartphones		76.2 33.5	83.0			
Tablets Fearth	31.3	33.3	33.4	32.5	31.8	2
Faculty	55.0	64.4	E1 0	E7.4	40.7	7
Desktops	55.0	61.1	51.0	57.4	42.7	
Notebooks	54.6	55.8	59.8	54.7	58.1	
Smartphones	70.4	66.5	74.0	71.1	70.3	
Tablets	32.1	33.4	33.5	31.4	31.8	
tal number of computer labs, clusters and classrooms as of May 2014	122.0	241.2	161.7	141.5	59.5	1
How many dedicated to individual departments or units?	45.6	95.2	55.9	59.1	18.1	
oportion of the classrooms that are multimedia or AV enabled (pct.)	77.5	70.3	70.4	74.8	78.6	
rcentage of operating systems installed on institutionally-owned						
mputers and servers						
Computers / clients						
Mac	197.2	250.6	237.2	196.3	235.0	
Windows 7	178.1	223.2	168.7	192.8	158.8	1
Windows 8	8.9	15.9	13.7	9.7	5.6	
Unix	2.8	9.8	3.0	2.3	1.7	
Linux	3.0	5.7	4.4	3.1	2.5	
Network servers						
Mac	2.8	3.4	3.2	2.6	2.9	
Windows	67.3	47.0	50.7	68.2	69.0	
Solaris / Open Solaris	2.8	6.8	4.9	3.6	1.2	
Unix (non-Solaris)	3.8	6.4	6.5	2.1	3.8	
Linux	20.9	33.1	31.6	21.9	20.3	
Novell	1.0	0.5	1.4	0.5	1.8	
tal number (FTE) of IT help desk / technical support personnel	36.3					
nai number (FTE) of 11 help desk / technical support personnel		116.6	78.0	32.2	11.4	
ser Support Ratio (enrollment / FTE help desk personnel)	318.6	232.0	157.1	371.1	322.3	9
rcentage of faculty with individual / personal Web page	27.0	30.4	35.7	32.4	24.9	
rcentage of your faculty have taught an online course (80 pct. of content						
lline) over the past two years:						
Full-time faculty	24.3	26.5	16.2	26.2	14.8	
Part-time faculty	22.1	23.1	16.5	23.0	17.2	
rcentage of classes that use:						
LMS / course management tools for online course resources	68.0	64.5	69.3	69.2	70.8	
Audio lecture capture	6.5	8.6	6.2	6.9	5.2	
Video lecture capture	7.4	9.4	6.6	9.5	5.8	
Online video resources	27.9	25.4	23.2	25.4	32.0	
Open Source / OER curricular resources	4.4	4.4	4.5	3.3	4.8	
Anti-plagiarism software for written assignment	23.5	23.2	21.6	24.9	23.1	
"Clickers" / classroom response system	8.5	15.0	8.8	7.6	7.5	
			0.0	7.0	1.5	
CADEMIC & INSTRUCTIONAL COMPUTING POLICIES AND PROCEDUI	RES & RESOU	RCES				
pes your campus / institution (percentage reporting "yes")						
Have a policy or program for rewarding courseware development or providing						
incentives for faculty to develop instructional software /						
courseware or educational content?	42.8	56.9	42.9	55.4	26.9	
Have a formal program to recognize and reward the use of information						
technology as part of the routine faculty review and promotion process?	16.4	18.5	9.5	16.9	12.3	
Have a formal program to assess the impact of IT on						
instruction and learning outcomes?	23.2	26.2	26.2	28.9	15.8	
Have a formal policy regarding ownership of Web-based curriculum resources	20.2	20.2	20.2	20.0	10.0	
and intellectual property developed by faculty?	63.6	84.6	76.2	68.7	46.8	
Charge students for access to digital content (online reserve readings,	03.0	04.0	10.2	00.7	40.0	
• • • • • • • • • • • • • • • • • • • •		40.0	7.4	7.0	0.0	
course packets, recorded content, etc.)?	6.4	10.8	7.1	7.2	2.3	
Inform / counsel students about privacy issues related to social						
networking sites (Facebook, LinkedIn, etc.)?	68.5	80.0	76.2	60.2	78.4	
Encourage the use of the Creative Commons license on digital works?	42.1	56.9	50.0	39.8	39.8	
Encourage faculty to use Open Source / OER instructional						
content for their courses?	32.8	30.8	19.0	37.3	28.7	
Support faculty efforts to develop Open Source / OER						
instructional content for their courses?	32.8	32.3	28.6	38.6	24.6	
	97.9	98.5	100.0	97.6	98.2	
Maintain a campus page on Facebook?			100.0	89.2	94.7	
Maintain a campus page on Facebook?  Have an institutional presence on YouTube?		98.5		JJ.2	J <del>T</del> .1	
Have an institutional presence on YouTube?	93.2	98.5 89.2		67.5	בב ח ו	
Have an institutional presence on YouTube? Have an institutional presence on iTunesU?	93.2 63.2	89.2	88.1	67.5	55.0 07.1	
Have an institutional presence on YouTube? Have an institutional presence on iTunesU? Maintain an institutional account on Twitter?	93.2			67.5 94.0	55.0 97.1	
Have an institutional presence on YouTube? Have an institutional presence on iTunesU? Maintain an institutional account on Twitter? Have a campus / department license for anti-plagiarism	93.2 63.2 93.8	89.2 98.5	88.1 92.9	94.0	97.1	
Have an institutional presence on YouTube? Have an institutional presence on iTunesU? Maintain an institutional account on Twitter? Have a campus / department license for anti-plagiarism software (e.g., Plagiarism-Finder, Turnitin, SafeAssign)?	93.2 63.2	89.2	88.1			
Have an institutional presence on YouTube? Have an institutional presence on iTunesU? Maintain an institutional account on Twitter? Have a campus / department license for anti-plagiarism software (e.g., Plagiarism-Finder, Turnitin, SafeAssign)? Outsource various aspects of your online program activities	93.2 63.2 93.8 73.0	89.2 98.5 81.5	88.1 92.9 81.0	94.0 85.5	97.1 64.3	
Have an institutional presence on YouTube? Have an institutional presence on iTunesU? Maintain an institutional account on Twitter? Have a campus / department license for anti-plagiarism software (e.g., Plagiarism-Finder, Turnitin, SafeAssign)?	93.2 63.2 93.8	89.2 98.5	88.1 92.9	94.0	97.1	

	All Institutions	Univers Public	sities Private	4-Year C Public	olleges Private	Community Colleges
oes your institution have a strategic plan for: (percentages)						
Information technology	7.0	9.2	7.1	4.8	8.2	5.
no currently preparing a plan	20.7	20.0	21.4	16.9	25.3	16.
yes	72.3	70.8	71.4	78.3	66.5	78.
Instructional technology / instructional integration of IT						
no	18.1	21.5	11.9	13.3	22.4	15.
currently preparing a plan	27.7 54.2	18.5 60.0	35.7 52.4	30.1 56.6	31.8 45.9	22 62
yes Deploying course / learning management tools	34.2	00.0	32.4	30.0	40.0	02
no	18.1	13.9	14.3	16.9	20.6	19
currently preparing a plan	17.5	12.3	19.1	16.9	21.8	13
yes Online / distance education	64.4	73.9	66.7	66.3	57.7	67
no	22.6	15.4	19.1	18.1	35.9	11
currently preparing a plan	25.0	21.5	28.6	24.1	30.6	17
yes	52.5	63.1	52.4	57.8	33.5	71
Wireless networks	7.0	4.6		6.0	10.6	7
no currently preparing a plan	7.3	4.6 6.2	2.4	6.0 7.2	10.6 7.1	12
yes	84.9	89.2	97.6	86.8	82.4	79
Network and data security						
no	5.5	1.5	2.4	2.4	8.8	(
currently preparing a plan yes	17.5 77.0	13.9 84.6	9.5 88.1	16.9 80.7	24.1 67.1	1: 8i
IT disaster recovery	11.0	04.0	00.1	00.7	07.1	
no	5.1	4.6	2.4	2.4	7.1	!
currently preparing a plan	26.2	30.8	16.7	14.5	32.4	20
yes	68.7	64.6	81.0	83.1	60.6	6
Administrative systems / ERP upgrade / replacement no	17.1	12.3	9.5	16.9	18.8	2
currently preparing a plan	13.4	10.8	16.7	7.2	15.3	1
yes	69.5	76.9	73.8	75.9	65.9	6
Digital content management	05.4	00.0	40.4	04.4	44.4	
no currently preparing a plan	35.4 32.6	29.2 32.3	19.1 42.9	24.1 41.0	44.1 28.2	41 21
Yes	32.0	38.5	38.1	34.9	27.7	30
Data warehousing						
no	24.7	12.3	9.5	15.7	35.3	28
currently preparing a plan	32.0 43.3	29.2 58.5	38.1 52.4	31.3 53.0	34.1 30.6	28 43
yes Business intelligence / analytics	40.0	30.3	32.4	33.0	30.0	7
no	27.5	12.3	7.1	20.5	39.4	3
currently preparing a plan	34.3	38.5	42.9	33.7	32.4	3
yes Open Source deployment and development	38.2	49.2	50.0	45.8	28.2	3
no	67.2	58.5	59.5	55.4	71.2	78
currently preparing a plan	11.7	18.5	11.9	14.5	7.1	1:
yes	21.1	23.1	28.6	30.1	21.8	
Lecture capture (audio and video)	20.0	40.0	40.4	04.7	05.0	0.
no currently preparing a plan	29.9 31.3	16.9 24.6	19.1 35.7	21.7 36.1	35.9 33.5	3
yes	38.8	58.5	45.2	42.2	30.6	34
Campus video management						
no	27.1	23.1	23.8	20.5	32.4	2
currently preparing a plan	22.8 50.1	21.5 55.4	26.2 50.0	22.9 56.6	21.2 46.5	24 4
yes Emergency communications / notification	30.1	33.4	30.0	50.0	40.5	4
no	2.4	3.1	2.4	-	2.4	;
currently preparing a plan	5.1	3.1	2.4	2.4	7.1	
yes Divited presentation / data arehiving	92.5	93.9	95.2	97.6	90.6	89
Digital preservation / data archiving no	23.9	20.0	14.3	16.9	28.8	2.
currently preparing a plan	37.3	47.7	54.8	41.0	31.8	30
yes	38.8	32.3	31.0	42.2	39.4	4:
Cloud computing	20.0	00.0	44.0	05.0	04.0	
no currently preparing a plan	30.3 40.7	26.2 38.5	11.9 50.0	25.3 41.0	31.8 41.2	4° 3°
yes	29.0	36.5 35.4	38.1	33.7	27.1	2
Server virtualization	23.0		00.1	00.1	27.1	
no	3.4	3.1	-	4.8	2.9	4
currently preparing a plan	11.1	7.7	7.1	7.2	12.4	15

	All Universities 4-Year Colleges					Community
	Institutions	Public	Private	Public	Private	Colleges
Does your institution have a strategic plan for: (percentages)						
508 accessibility / compliance for Web pages / resources						
no	23.2	13.9	23.8	12.1	39.4	11.9
currently preparing a plan	28.1 48.6	33.9 52.3	40.5 35.7	20.5	27.1 33.5	27.5 60.6
yes Email and document archiving to address eDiscovery	40.0	52.3	35.7	67.5	33.3	0.00
no	26.7	21.5	19.1	15.7	36.5	25.7
currently preparing a plan	26.9	24.6	23.8	33.7	25.3	26.6
yes	46.5	53.9	57.1	50.6	38.2	47.7
Identity and access management						
no	15.4	9.2	11.9	7.2	22.4	15.6
currently preparing a plan yes	39.2 45.4	41.5 49.2	26.2 61.9	33.7 59.0	41.8 35.9	43.1 41.3
Digital textbooks / digital curricular materials	70.7	73.2	01.5	33.0	00.0	71.0
no	48.4	43.1	38.1	41.0	55.3	50.5
currently preparing a plan	36.9	40.0	52.4	36.1	31.8	37.6
yes	14.7	16.9	9.5	22.9	12.9	11.9
Social media (Facebook, Twitter, etc.)	0.50	20.0	40 =	05.0		
no	25.6	29.2	16.7	25.3	27.7	23.9
currently preparing a plan	28.8	27.7	35.7	33.7	26.5	26.6
yes Mobile computing / mobile resources and services	45.6	43.1	47.6	41.0	45.9	49.5
nobile computing / mobile resources and services	21.8	23.1	7.1	14.5	28.2	22.0
currently preparing a plan	33.7	30.8	40.5	38.6	31.2	33.0
yes	44.6	46.2	52.4	47.0	40.6	45.0
When did your institution develop / last update the campus plan for the IT issues listed below? (percentages)  Overall campus IT plan						
past 12 months	52.1	46.2	54.8	54.2	49.1	57.8
13 to 24 months ago	18.5	20.0	11.9	22.9	19.9	14.7
more than 24 months ago	29.4	33.9	33.3	22.9	31.0	27.5
IT security						
past 12 months	64.3	72.3	71.4	72.3	58.5	59.6
13 to 24 months ago	16.0	12.3	9.5	18.1	17.5	16.5
more than 24 months ago	19.8	15.4	19.1	9.6	24.0	23.9
IT disaster recovery past 12 months	56.0	56.9	66.7	62.7	51.5	53.2
13 to 24 months ago	17.0	16.9	14.3	19.3	15.8	18.4
more than 24 months ago	27.0	26.2	19.1	18.1	32.8	28.4
Cloud computing						
past 12 months	59.4	70.8	71.4	60.2	55.6	53.2
13 to 24 months ago	16.8	12.3	9.5	22.9	17.0	17.4
more than 24 months ago	23.8	16.9	19.1	16.9	27.5	29.4
Mobile Computing past 12 months	62.8	61.5	69.1	63.9	60.8	63.3
13 to 24 months ago	18.5	20.0	19.1	24.1	15.8	17.4
more than 24 months ago	18.7	18.5	11.9	12.1	23.4	19.3
Identity and access management						
past 12 months	62.1	66.2	69.1	63.9	59.7	59.6
13 to 24 months ago	14.9	13.9	11.9	21.7	13.5	13.8
more than 24 months ago	23.0	20.0	19.1	14.5	26.9	26.6
508 accessibility / compliance	44.0	44.5	04.0	47.0	05.0	40.0
past 12 months 13 to 24 months ago	41.2 20.5	41.5 27.7	31.0 16.7	47.0 24.1	35.9 16.5	48.6 21.1
more than 24 months ago	38.4	30.8	52.4	28.9	47.7	30.3
	30.4	30.0	32.4	20.9	41.1	30.3
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 scores; scale: 1=not important; 7=very important)						
, , ,						
percentages reporting "very important (scale score of 6/7)  Hardware						
Laptop / netbook computers	64.3	72.3	71.4	68.7	65.5	51.4
Smart phones	83.2	83.1	90.5	84.3	81.9	81.7
Tablet devices	82.3	86.2	81.0	81.9	81.3	82.6
Instructional applications and resources						
Developing instructional software	20.5	20.0	29.3	26.5	17.5	17.4
Using instructional software in classes	72.1	76.9	80.5	75.9	64.9	74.3
Using instructional software as a supplement to classes	80.2	84.6	85.4	80.7	79.5	76.1
Web-based tutorials	59.3	56.9	58.5	65.1	51.5	68.8
e-Books (e-textbooks) Open Source / OER textbooks	60.1 33.5	55.4 36.9	61.0 22.0	68.7 44.6	52.0 26.3	68.8 38.5
Open Outre / OFIV revinance	აა.ა		22.0			
Learning management systems	91.0	95.4	97.6	91.6	89.5	88.1

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	All Institutions	Univers Public	Sities Private	4-Year C Public	olleges Private	Community Colleges
Instructional applications and resources	montationo	1 45110	1111410	1 45110	1111410	Comogoo
Online course evaluation	76.5	80.0	78.0	85.5	67.8	80.7
Classroom "clickers" / response system	23.9	44.6	19.5	25.3	16.4	23.9
Student ePortfolios	38.0	38.5	46.3	44.6	43.9	20.2
Audio lecture capture	37.3	41.5	46.3	39.8	35.7	32.1
Video lecture capture	49.9	58.5	63.4	48.2	49.7	41.3
User support services / campus services						-
Online IT training	63.2	60.0	59.5	63.9	58.5	73.4
Online technical support	74.3	80.0	71.4	80.7	69.6	74.3
Computer resale program	6.4	6.2	9.5	8.4	3.5	8.3
Alumni services via the campus Web site	39.4	38.5	54.8	32.5	47.4	26.6
Internet / Web issues & resources						
Internet videoconferencing	73.0	80.0	85.7	71.1	66.7	75.2
Guest access on campus networks	48.3	61.5	52.4	48.2	44.4	45.0
LTI standards for developing apps	56.0	67.7	59.5	57.8	50.9	54.1
Data encryption	78.7	89.2	90.5	85.5	71.3	74.3
Content management systems	76.0	72.3	83.3	79.5	71.9	78.9
Wikis	18.5	24.6	14.3	16.9	20.5	14.7
Podcasting	19.4	15.4	7.1	22.9	19.9	22.9
Blogging	23.6	20.0	23.8	26.5	24.6	22.0
Web conferencing	73.4	80.0	81.0	74.7	70.2	70.6
Server virtualization	91.1	95.4	83.3	96.4	89.5	89.9
Desktop virtualization	64.0	66.2	54.8	75.9	59.1	65.1
Network virtualization	44.3	46.2	40.5	45.8	40.9	48.6
Vendor Services / Outsourcing	77.0	TO.2	40.0	40.0	40.5	40.0
Data back-up / storage	34.5	32.3	47.6	37.3	35.1	27.5
ERP services	16.6	12.3	26.2	15.7	14.6	19.3
Instructional technology services	9.6	12.3	11.9	6.0	8.2	11.9
<b>0</b> ,	8.1	4.6	9.5	7.2	5.8	13.8
User support						
ResNet services	9.1	10.8	-	16.9	9.4	5.5
Network services	4.5	1.5	- 44.2	3.6	3.5	10.1
eProcurement	11.3	20.0	14.3	14.5	7.0	9.2
Campus portal	11.3	9.2	4.8	14.5	9.9	14.7
Web hosting	29.8	13.8	42.9	26.5	36.3	26.6
Video streaming	37.4	26.2	35.7	31.3	45.6	36.7
Student email services	77.4	80.0	76.2	75.9	77.2	78.0
Course development	4.7	3.1	4.8	7.2	6.4	0.9
Online course delivery	17.0	18.5	26.2	14.5	15.2	17.4
RATING THE TECHNOLOGY INFRASTRUCTURE AND SERVICES						
How would you rate the following technology resources						
and services at your insitution? (scale: 1=poor; 7=excellent)						
Percent very effective (6 /7)						
Campus web site services / student portal	40.2	43.1	35.7	38.6	39.8	42.2
Cellular coverage across the campus	41.5	35.4	38.1	36.1	51.5	34.9
Computer networks and data communication	75.7	72.3	83.3	78.3	73.7	76.1
Data warehousing	24.0	32.3	28.6	26.5	19.9	22.0
Digital dashboards / ERP analytics	11.9	18.5	11.9	13.3	11.7	7.3
Disaster planning	25.3	33.8	38.1	28.9	19.9	21.1
Emergency communications / notification system(s)	67.7	72.3	90.5	72.3	66.7	54.1
Enterprise systems	50.2	47.7	54.8	49.4	46.2	56.9
Instructional computing	50.0	50.8	57.1	53.0	42.1	56.9
IT accessibility: IT resources and services for users with disabilities	18.9	21.5	16.7	21.7	14.0	23.9
IT security (network attacks, secure data bases, identity mgmt., etc.)	48.1	60.0	57.1	44.6	40.4	52.3
IT training for faculty	27.9	43.1	23.8	31.3	28.1	17.4
IT training for students	12.8	18.5	14.3	19.3	9.4	9.2
Mobile apps / services for students, faculty & staff	17.0	24.6	23.8	19.3	14.6	11.9
Multimedia / AV enabled classrooms	64.7	61.5	59.5	66.3	62.0	71.6
Online reference resources in campus library / library system	66.2	63.1	76.2	65.1	65.5	66.1
	15.5				6.4	11.0
Research computing	60.2	38.5	35.7 57.1	12.0 60.2	56.7	66.1
Telecommunications and phone system	58.5	61.5 52.3		62.7		
User support services			61.9		55.6	62.4
Web resources to support instruction	41.7 66.6	47.7 70.8	35.7 69.0	38.6 68.7	38.6 66.7	47.7 61.5
Wireless networks	0.00	70.8	09.0	00./	00.7	01.5
How would you rate the effectiveness of your institution's investment in						
•						
technology resources and services in recent years?						
technology resources and services in recent years? (scale: 1=not effective; 7-=very effective)						
technology resources and services in recent years? (scale: 1=not effective; 7-=very effective)  Percent very effective (6 / 7)						
technology resources and services in recent years? (scale: 1=not effective; 7-=very effective)	53.4	58.5	52.4	54.2	52.0	
technology resources and services in recent years? (scale: 1=not effective; 7==very effective)  Percent very effective (6 / 7)	53.4 30.0	58.5 40.0	52.4 35.7	54.2 30.1	52.0 36.8	
technology resources and services in recent years? (scale: 1=not effective; 7-=very effective)  Percent very effective (6 / 7)  Academic support services (including advising and retention efforts)	30.0 63.2	40.0 63.1		30.1 63.9	36.8 65.5	22.0 65.1
technology resources and services in recent years? (scale: 1=not effective; 7-=very effective)  Percent very effective (6 / 7)  Academic support services (including advising and retention efforts)  Alumni activities / engagement	30.0	40.0	35.7	30.1	36.8	22.0 65.1
technology resources and services in recent years? (scale: 1=not effective; 7.=very effective)  Percent very effective (6 / 7)  Academic support services (including advising and retention efforts)  Alumni activities / engagement  Administrative information systems and operations	30.0 63.2	40.0 63.1	35.7 59.5	30.1 63.9	36.8 65.5	55.0 22.0 65.1 32.1 31.2

	All	Univers		4-Year C	•	Community
Rating the effectiveness of IT investments (continued; pct. very effective)	Institutions	Public	Private	Public	Private	Colleges
Library resources and services	64.3	70.8	69.0	67.5	65.5	60.
On-campus teaching and instruction	63.0	64.6	61.9	67.5	63.7	61.
Online / distance courses and programs	44.9	60.0	26.2	54.2	43.9	68.
Research and scholarship	24.5	50.8	47.6	25.3	24.6	39.
Student recruitment	53.8	58.5	76.2	50.6	61.4	46.
Student services	54.9	61.5	57.1	56.6	48.5	61.
ADDRESSING BUDGET ISSUES BY (percentages)						
Charging fees to departments and service units (networking, printing, etc.)		24.2	40.5	24.0	20.5	
Doing this already	30.9	64.6	40.5	31.3	20.5	22.
Beginning in 2014-15	1.9 7.2	12.3	- 7.1	2.4 10.8	2.9 4.7	1. 5.
Reviewing for 2014-15 Decided not to do	60.0	23.1	52.4	55.4	71.9	69.
Requiring a computer / IT fee for all students	00.0	20.1	JZ.4	JJ. <del>T</del>	71.5	00
Doing this already	57.5	76.9	38.1	74.7	40.4	67.
Beginning in 2014-15	0.6	-	-	1.2	1.2	-
Reviewing for 2014-15	4.5	6.2	2.4	3.6	4.7	4
Decided not to do	37.5	16.9	59.5	20.5	53.8	28
Regulating the amount of campus bandwidth students can consume						
Doing this already	32.3	26.2	35.7	32.5	35.1	30
Beginning in 2014-15	2.8	-	-	2.4	4.7	2
Reviewing for 2014-15	10.4	9.2	7.1	9.6	9.9	13
Decided not to do	54.5	64.6	57.1	55.4	50.3	53
Leasing rather than buying hardware	20.9	16.9	40.5	14.5	28.1	9
Doing this already Beginning in 2014-15	1.9	10.9	40.5	14.5	3.5	1
Reviewing for 2014-15	8.9	12.3	4.8	14.5	7.0	7
Decided not to do	68.3	70.8	54.8	69.9	61.4	81
Reducing hours in public access facilities	00.0		00		• • • • • • • • • • • • • • • • • • • •	
Doing this already	22.1	30.8	16.7	25.3	15.8	26
Beginning in 2014-15	3.4	1.5	-	7.2	2.3	4
Reviewing for 2014-15	6.8	6.2	9.5	9.6	6.4	4
Decided not to do	67.7	61.5	73.8	57.8	75.4	64
Reducing services (e.g., less consulting, training)						
Doing this already	28.5	26.2	16.7	33.7	26.3	33
Beginning in 2014-15	3.0	1.5	4.8	2.4	3.5	2
Reviewing for 2014-15	14.5	24.6	19.1	13.3	11.7	11
Decided not to do	54.0	47.7	59.5	50.6	58.5	51
Phasing out public computer labs  Doing this already	13.8	21.5	11.9	19.3	14.6	4
Beginning in 2014-15	3.8	21.5	- 11.9	6.0	6.4	1
Reviewing for 2014-15	16.4	20.0	16.7	21.7	15.8	11
Decided not to do	66.0	58.5	71.4	53.0	63.2	82
Reorganizing operations (e.g., combining IT units)						-
Doing this already	58.9	67.7	64.3	63.9	56.1	52
Beginning in 2014-15	4.7	7.7	4.8	3.6	5.3	2
Reviewing for 2014-15	16.6	20.0	19.1	15.7	13.5	19
Decided not to do	19.8	4.6	11.9	16.9	25.2	25
Reducing staff						
Doing this already	28.7	38.5	35.7	25.3	22.2	33
Beginning in 2014-15	4.3	3.1	2.4	2.4	4.1	7
Reviewing for 2014-15	6.4	9.2	4.8	4.8	3.5	11
Decided not to do  Using information technology to reduce instructional costs	60.6	49.2	57.1	67.5	70.2	48
Doing this already	50.0	63.1	40.5	51.8	39.8	60
Beginning in 2014-15	2.3	1.5	2.4	51.0	2.9	3
Reviewing for 2014-15	19.2	20.0	19.1	24.1	22.2	10
Decided not to do	28.5	15.4	38.1	24.1	35.1	25
Making greater use of student assistants for user support needs	20.0	10.1	00.1		00.1	
Doing this already	78.7	86.2	78.6	74.7	84.2	68
Beginning in 2014-15	2.8	4.6	-	1.2	2.9	;
Reviewing for 2014-15	7.7	1.5	11.9	13.3	4.1	1.
Decided not to do	10.9	7.7	9.5	10.8	8.8	10
Outsourcing computing / IT services				<u></u>		
Doing this already	30.0	29.2	35.7	28.9	31.6	2
Beginning in 2014-15	2.6	4.6	2.4	3.6	0.6	
Reviewing for 2014-15	16.8	23.1	21.4	21.7	11.7	1:
Decided not to do	50.6	43.1	40.5	45.8	56.1	54
Outsourcing student portal service	10.5	40.0		^ .	•	
Doing this already	10.0	10.8	7.1	8.4	6.4	17
Beginning in 2014-15 Povious for 2014-15	1.5	- 6.2	2.4	2.4	1.2	1
Reviewing for 2014-15 Decided not to do	6.8 81.7	6.2 83.1	14.3 76.2	7.2 81.9	5.9 86.6	5 75

	All Institutions	Univers Public	sities Private	4-Year Co	olleges Private	Community Colleges
Addressing Budget Issues By: (continued)	institutions	Public	Private	Public	Private	Colleges
Outsourcing user support / help desk services						
Doing this already	10.4	13.9	19.1	6.0	5.9	15.6
Beginning in 2014-15	1.5	-	-	2.4	0.6	3.7
Reviewing for 2014-15	13.0	4.6	19.1	14.5	13.5	13.8
Decided not to do	75.1	81.5	61.9	77.1	80.1	67.0
Outsourcing ERP services	40.0	45.4	40.4	40.0		40.6
Doing this already	12.6	15.4	19.1	19.3	6.4	12.8
Beginning in 2014-15 Reviewing for 2014-15	0.9	12.3	2.4 16.7	1.2 9.6	0.6 11.7	0.9 11.0
Decided not to do	74.9	72.3	61.9	69.9	81.3	75.2
Outsourcing ResNet services	14.5	12.5	01.5	00.0	01.0	10.2
Doing this already	7.9	7.7	2.4	9.6	8.8	7.3
Beginning in 2014-15	0.6	-	-	1.2	0.6	0.9
Reviewing for 2014-15	6.0	6.2	7.1	8.4	5.9	3.
Decided not to do	85.5	86.2	90.5	80.7	84.8	88.
Outsourcing student email services						
Doing this already	75.7	86.2	76.2	73.5	74.3	73.
Beginning in 2014-15	4.3	1.5	7.1	7.2	1.8	6.
Reviewing for 2014-15 Decided not to do	8.9	7.7	14.3	6.0	11.7	5.
Decided not to do  Delaying / deferring ERP deployment / replacement / upgrades	11.1	4.6	2.4	13.3	12.3	14.
Doing this already	18.9	18.5	19.1	15.7	20.5	19.
Beginning in 2014-15	1.7	3.1	-	2.4	1.2	13.
Reviewing for 2014-15	8.1	6.2	11.9	8.4	8.8	6.
Decided not to do	71.3	72.3	69.1	73.5	69.6	72.
Deferring / reducing use of consultants on IT projects						
Doing this already	44.3	47.7	42.9	39.8	42.7	48.
Beginning in 2014-15	3.0	1.5	4.8	-	4.1	3.
Reviewing for 2014-15	13.4	12.3	26.2	16.9	11.1	10.
Decided not to do	39.4	38.5	26.2	43.4	42.1	37.
Reviewing options for the campus standard Learning Management System						
Doing this already	40.9	47.7	40.5	37.4	38.0	44.
Beginning in 2014-15	4.3	6.2	4.8	3.6	4.7	2.
Reviewing for 2014-15	22.1 32.8	21.5 24.6	35.7	27.7 31.3	20.5 36.8	15. 37.
Decided not to do  Migrating to Software as a Service (SaaS) / Cloud-based ERP applications	32.0	24.0	19.1	31.3	30.0	31.
Doing this already	18.9	21.5	33.3	22.9	14.6	15.
Beginning in 2014-15	4.9	4.6	4.8	1.2	2.9	11.
Reviewing for 2014-15	28.9	35.4	31.0	28.9	29.8	22.
Decided not to do	47.2	38.5	31.0	47.0	52.6	50.
ONCERN ABOUT STRATEGIC, BUDGET, AND PERSONNEL ISSUES OVER						
HE NEXT THREE YEARS (scale: 1=not important; 7=very important)						
percent reporting very important (scale score 6/7)	00.4	04.5	04.4	00.4	07.5	0.4
Administrative concerns about the benefits of computing in the curriculum	29.4	21.5	21.4	36.1	27.5	34.
Assessing the benefits of existing investments in computing and technology resources	72.6	76.9	78.6	71.1	68.4	75.
Assessing the return on investment for IT spending / resources	62.6	60.0	64.3	69.9	59.1	63.
Business analytics / intelligence	69.4	81.5	76.2	81.9	60.8	63.
Clarifying goals and campus plans for technology resources	86.0	87.7	92.9	81.9	83.6	89.
Controlling / restricting file sharing of commercial						
content (music, media, etc.)	41.5	40.0	40.5	44.6	38.6	45.
Data warehousing	63.2	70.8	69.0	80.7	52.0	60
Developing / updating campus policies for Web-based intellectual property	40.0	41.5	45.2	37.3	42.1	35.
Establishing / maintaining campus-wide standards for hardware	53.0	40.0	50.0	54.2	50.3	65.
Establishing / maintaining campus-wide standards for software	63.0	47.7	64.3	66.3	60.8	72.
Faculty concerns about the benefits of computing in the curriculum	34.9	30.8	35.7	41.0	35.1	32.
Helping our IT personnel stay current with new technologies	87.9	83.1	83.3	92.8	86.5	90.
Hosted applications / Software as a Service (SaaS)	48.3 78.9	58.5 92.3	61.9 83.3	39.8 89.2	44.4 69.0	49. 77.
Identity Management Implementing Federated Identity Management	50.4	92.3 75.4	63.3 47.6	66.3	36.8	45.
Implementing new technology tools in our continuing ed	50.4	70.4	47.0	00.3	30.0	40.
and workforce development programs	29.1	32.3	28.6	25.3	24.6	37.
IT business continuity	78.1	80.0	76.2	80.7	76.6	78.
Managing / distributing digital learning resources	46.6	50.8	52.4	59.0	39.2	44.
Managing campus video resources (lectures, presentation, etc.)	42.1	49.2	54.8	51.8	35.1	36
Migrating administrative / ERP services to the Cloud	17.9	20.0	21.4	18.1	14.0	21.
Moving more of our user support services to the Web	68.5	72.3	78.6	72.3	62.6	68.
Negotiating site licensing agreements with academic publishers	30.9	32.3	35.7	39.8	19.9	38.
Negotiating site licensing agreements with textbook publishers	27.7	27.7	28.6	36.1	17.0	37.
Operating with a single student user profile for all institutional applications	42.8	47.7	42.9	44.6	38.0	45.
Promoting the use of Open Education Resource (OER) course materials	15.1	13.8	7.1	18.1	10.5	23.

	All Universities Institutions Public Private				•		
CONCERN ABOUT STRATEGIC, BUDGET AND PERSONNEL ISSUES OVER THE						9.00	
NEXT THREE YEARS (scale: 1=not important; 7=very important)							
percent reporting "very important" (scale score 6/7)							
Providing incentives and rewards for faculty to support technology							
integration into the curriculum	32.3	26.2	35.7	47.0	31.6	24.	
Providing mobile services (apps) for our ERP / administrative systems	52.8	53.8	50.0	57.8	49.7	54	
Providing mobile services (apps) for our LMS/learning management system	66.2	73.8	71.4	79.5	58.5	61	
Researching the total cost of ownership (TCO) for our IT purchases	52.6	56.9	57.1	49.4	47.4	58	
Retaining current IT personnel given off-campus competition	79.6	78.5	97.6	85.5	76.6	73	
Server consolidation	69.1	87.7	66.7	63.9	66.1	67	
Sharing digital resources with other campuses / institutions	39.8	40.0	42.9	54.2	34.5	35	
Storage management	73.8	90.8	78.6	74.7	70.2	67	
Surveying students and faculty about IT issues and services Using Open Source tools and applications	65.5	66.2	66.7	66.3	62.0	69	
Using open source tools and applications Using social media to support student success initiatives	25.3 27.2	23.1 27.7	26.2 14.3	27.7 34.9	27.5 21.1	21 35	
Using technology resources to enhance our distance/online	21.2	21.1	14.3	34.9	21.1	30	
education program	68.1	78.5	76.2	75.9	52.6	77	
	00.1	70.5	70.2	10.5	32.0	11	
Percentage of colleges and universities that currently provide these technology-							
pased resources and services for students, faculty, and staff Public computer labs	93.0	92.3	100.0	88.0	95.9	89	
Free (paper) printing services for students	73.2	58.5	73.8	61.4	86.5	69	
3D printing for students	38.7	53.8	45.2	33.7	31.0	43	
Email accounts for students	98.7	98.5	100.0	100.0	100.0	95	
Email accounts for faculty, staff and administrators	99.8	100.0	100.0	100.0	99.4	100	
Email services for alumni (accounts or forwarding)	69.8	80.0	88.1	71.1	72.5	5′	
Computer resale program	25.1	38.5	33.3	19.3	24.6	19	
On-site computer repair services for students	41.3	63.1	57.1	41.0	46.8	13	
ePortfolio services for students	53.4	49.2	57.1	62.7	66.7	26	
ePortfolio services for faculty and staff	32.6	35.4	45.2	34.9	36.3	18	
IT help desk services on evenings and weekends	69.1	75.4	85.7	71.1	64.9	64	
Audio lecture capture	63.2	80.0	78.6	71.1	52.0	58	
Video lecture capture	70.0	87.7	85.7	81.9	57.3	64	
Percentage of survey participants who agree/strongly agree colleges and universities should provide these technology-based resources and services for students, faculty, and staff							
Public computer labs	87.0	86.2	85.7	84.3	88.3	88	
Free (paper) printing services for students	66.2	53.8	73.8	60.2	74.3	62	
3D printing for students	64.7	75.4	73.8	66.3	60.2	60	
Email accounts for students	93.8	92.3	97.6	95.2	93.6	92	
Email accounts for faculty, staff and administrators	99.4	98.5	100.0	98.8	100.0	99	
Email services for alumni (accounts or forwarding)  Computer resale program	70.2 28.1	78.5 38.5	83.3 40.5	72.3 26.5	69.0 19.3	32	
On-site computer repair services for students	47.7	66.2	73.8	49.4	48.5	23	
ePortfolio services for students	85.5	89.2	88.1	89.2	90.6	7	
ePortfolio services for faculty and staff	71.3	76.9	71.4	75.9	72.5	62	
IT help desk services on evenings and weekends	89.8	90.8	97.6	95.2	85.4	89	
Audio lecture capture	86.8	89.2	85.7	90.4	84.8	86	
Video lecture capture	93.4	98.5	97.6	96.4	92.4	88	
At campuses where these services are provided, the percentage of survey participants who agree/strongly agree that their campus should provide these technology-based resources and services for students, faculty, and staff	00.7	00.0	05.7	05.0	04.5	•	
Public computer labs	92.7	93.3 73.7	85.7	95.9 84.3	91.5 83.8	94	
Free (paper) printing services for students 3D printing for students	82.6 95.6	73.7 97.1	90.3 94.7	94.3 92.9	83.8 98.1	80 93	
Email accounts for students	95.0	97.1	94.7	92.9	93.6	93	
Email accounts for faculty, staff and administrators	99.4	98.5	100.0	98.8	100.0	99	
Email services for alumni (accounts or forwarding)	84.1	96.2	89.2	83.1	79.8	80	
Computer resale program	75.4	84.0	92.9	93.8	54.8	8′	
On-site computer repair services for students	85.1	85.4	91.7	91.2	83.8	66	
ePortfolio services for students	96.4	90.6	100.0	98.1	96.5	96	
ePortfolio services for faculty and staff	94.8	95.7	94.7	100.0	90.3	100	
IT help desk services on evenings and weekends	98.5	95.9	100.0	98.3	98.2	100	
Audio lecture capture	98.0	96.2	93.9	98.3	98.9	100	
Video lecture capture	99.4	100.0	100.0	98.5	100.0	98	

	All Institutions	Univers Public	sities Private	4-Year C Public	olleges Private	Communit Colleges
S YEAR'S COMPUTING BUDGET COMPARED TO LAST YEAR'S I		Public	riivale	Public	riivale	Colleges
Total computing budget for central IT services	BUDGET					
Reduced >5%	9.4	4.6	2.4	4.8	14.7	10
Reduced 4-5%	4.7	6.2	7.1	6.0	0.6	8
Reduced 1-3%	11.5	10.8	19.1	10.8	8.2	14
No change	40.1	38.5	26.2	42.2	38.8	46
Increased 1-3%	25.4	30.8	35.7	25.3	28.2	13
Increased 4-5%	4.5	4.6	4.8	4.8	4.7	3
Increased >5%	4.5	4.6	4.8	6.0	4.7	2
Computer purchases by academic departments						_
Reduced >5%	7.7	4.6	-	9.6	9.4	8
Reduced 4-5%	5.5	7.7	2.4	7.2	3.5	7
Reduced 1-3%	9.4 62.5	12.3 56.9	14.3 66.7	7.2 55.4	4.1	15 52
No change Increased 1-3%	12.4	16.9	16.7	19.3	73.5 6.5	11
Increased 4-5%	1.9	1.5	-	1.2	1.8	3
Increased >5%	0.6	-	-	-	1.2	0
All institutional purchases of desktop / notebook computers	0.0				1.04	•
Reduced >5%	9.2	4.6	2.4	8.4	11.8	11
Reduced 4-5%	4.5	9.2	4.8	2.4	2.9	5
Reduced 1-3%	11.1	13.9	14.3	8.4	8.2	14
No change	54.2	55.4	64.3	55.4	55.3	46
Increased 1-3%	16.0	12.3	14.3	21.7	14.7	16
Increased 4-5%	2.6	3.1	-	2.4	2.9	2
Increased >5%	2.6	1.5	-	1.2	4.1	2
Institutional support for public computer labs						
Reduced >5%	4.9	4.6	4.8	3.6	5.3	
Reduced 4-5%	3.8	3.1	4.8	2.4	3.5	,
Reduced 1-3%	14.7	23.1	14.3	15.7	14.1	1
No change	65.5	63.1	64.3	59.0	65.3	7
Increased 1-3%	8.7	4.6	9.5	15.7	9.4	
Increased 4-5%	1.1	1.5	-	-	1.8	
Increased >5%	1.3	-	2.4	3.6	0.6	(
Network servers	4.2	1.5		0.4	F 2	
Reduced >5%	4.3	1.5 4.6	- 71	2.4 1.2	5.3	
Reduced 4-5%	9.0		7.1		1.2	,
Reduced 1-3% No change	60.8	10.8 53.9	7.1 71.4	10.8 57.8	7.7 62.9	5
Increased 1-3%	15.4	15.4	11.9	16.9	15.3	1:
Increased 4-5%	5.1	9.2	-	6.0	5.9	
Increased >5%	2.6	4.6	2.4	4.8	1.8	
Server software and related products	2.0					
Reduced >5%	3.2	_	-	2.4	4.1	
Reduced 4-5%	2.6	1.5	7.1	1.2	1.2	
Reduced 1-3%	6.8	15.4	4.8	4.8	5.9	
No change	59.3	47.7	71.4	56.6	61.8	5
Increased 1-3%	20.3	23.1	11.9	27.7	21.8	1
Increased 4-5%	6.0	9.2	2.4	4.8	3.5	1
Increased >5%	1.9	3.1	2.4	2.4	1.8	
Wireless networks						
Reduced >5%	3.0	-	-	3.6	3.5	
Reduced 4-5%	0.6	-	-		1.2	
Reduced 1-3%	3.8	6.2	-	4.8	1.8	
No change	42.4	36.9	38.1	33.7	51.2	4
Increased 1-3%	25.4	18.5	38.1	30.1	21.2	2
Increased 4-5%	13.2	21.5	14.3	14.5	11.8	
Increased >5% User training and support	11.5	16.9	9.5	13.3	9.4	1
Reduced >5%	5.1	7.7	_	7.2	4.7	
Reduced 4-5%	1.9	1.1	2.4	1.2	2.9	
Reduced 1-3%	8.1	12.3	7.1	6.0	6.5	1
No change	66.5	64.6	81.0	57.8	67.7	6
Increased 1-3%	14.3	12.3	7.1	25.3	12.9	1
Increased 4-5%	2.6	3.1	- 1.1	1.2	2.9	'
Increased 4-5 %	1.5	J. I -	2.4	1.2	2.9	
Professional development for IT personnel	1.3	-	2.4	1.4	2.4	
Reduced >5%	6.8	7.7	2.4	4.8	8.2	
Reduced 4-5%	4.5	4.6	2.4	3.6	3.5	
Reduced 1-3%	8.3	12.3	9.5	4.8	7.7	
No change	59.7	52.3	73.8	53.0	65.3	5
Increased 1-3%	14.7	52.5 15.4	9.5	26.5	10.6	1
moroadou i 070	14./					
Increased 4-5%	3.8	4.6	2.4	3.6	3.5	

	All Institutions	Univers Public	sities Private	4-Year Co	olleges Private	Commun College:
IIS YEAR'S COMPUTING BUDGET COMPARED TO LAST YEAR'S (continued)	mannunons	FUDIIC	rnvate	FUDIIC	riivate	Conege
Campus portal services						
Reduced >5%	3.0	3.1	-	4.8	2.9	
Reduced 4-5%	0.9	1.5	-	-	0.6	
Reduced 1-3%	5.3	9.2	4.8	6.0	2.9	
No change	72.9	75.4	83.3	68.7	73.5	6
Increased 1-3%	10.7	9.2	11.9	13.3	12.4	
Increased 4-5%	4.5	-	- 1	4.8	3.5	1
Increased >5%	2.8	1.5	-	2.4	4.1	
ERP software and services						
Reduced >5%	1.9	1.5	2.4	_	1.8	
Reduced 4-5%		-		_	-	
Reduced 1-3%	3.0	3.1	2.4	2.4	2.4	
No change	50.5	49.2	45.2	60.2	48.2	4
Increased 1-3%	26.9	32.3	35.7	25.3	23.5	2
Increased 4-5%	9.8	4.6	11.9	6.0	13.5	4
Increased >5%	7.9	9.2	2.4	6.0	10.6	
	7.9	9.2	2.4	0.0	10.0	
Cloud computing resources / services / migration	17				2.4	
Reduced >5%	1.7	-	-	-	2.4	
Reduced 4-5%	0.9	1.5		-	1.2	
Reduced 1-3%	2.1	4.6	2.4	1.2	1.2	
No change	57.4	50.8	54.8	51.8	60.0	
Increased 1-3%	23.5	23.1	31.0	31.3	21.2	
Increased 4-5%	9.6	15.4	9.5	9.6	8.2	
Increased >5%	4.9	4.6	2.4	6.0	5.9	
Mobile computing resources / services						
Reduced >5%	1.7	-	-	-	2.4	
Reduced 4-5%	0.2	-	-	-	-	
Reduced 1-3%	1.9	1.5	-	1.2	1.8	
No change	58.2	53.9	57.1	53.0	66.5	
Increased 1-3%	27.1	30.8	28.6	30.1	23.5	
Increased 4-5%	7.5	12.3	9.5	9.6	3.5	
Increased >5%	3.4	1.5	4.8	6.0	2.4	
External service providers	3.4	1.5	4.0	0.0	2.4	
•	2.0			2.0	F 2	
Reduced >5%	3.6	-	-	3.6	5.3	
Reduced 4-5%	1.9	4.6	-	1.2	1.2	
Reduced 1-3%	6.4	12.3	2.4	6.0	4.1	
No change	62.5	52.3	64.3	72.3	61.8	
Increased 1-3%	19.8	26.2	26.2	10.8	19.4	
Increased 4-5%	3.4	3.1	4.8	3.6	4.1	
Increased >5%	2.4	1.5	2.4	2.4	4.1	
Security issues						
Reduced >5%	2.1	-	-	2.4	2.4	
Reduced 4-5%	0.4	-	-	-	0.6	
Reduced 1-3%	1.7	3.1	-	1.2	0.6	
No change	46.7	33.9	26.2	37.4	53.5	
Increased 1-3%	29.6	30.8	47.6	33.7	28.2	
Increased 4-5%	11.7	12.3	14.3	16.9	10.6	
Increased >5%	7.7	20.0	11.9	8.4	4.1	
Identity management				<b></b>		
Reduced >5%	2.1	_	_	1.2	2.9	
Reduced 4-5%	0.4	=		1.2	-	
Reduced 1-3%	3.0	3.1	2.4	1.2	3.5	
No change	58.6	47.7 27.7	38.1	54.2	67.7	
Increased 1-3%	23.9	27.7	47.6	27.7	16.5	
Increased 4-5%	6.0	7.7	4.8	7.2	5.3	
Increased >5%	6.0	13.9	7.1	8.4	4.1	
Consultants for IT projects and services					,	
Reduced >5%	6.8	3.1	4.8	4.8	10.0	
Reduced 4-5%	3.0	3.1	4.8	2.4	2.9	
Reduced 1-3%	12.4	20.0	21.4	9.6	8.2	
No change	51.8	50.8	52.4	56.6	48.8	
Increased 1-3%	18.3	12.3	16.7	16.9	20.0	
Increased 4-5%	3.8	3.1	-	4.8	5.3	
Increased >5%	3.8	7.7	-	4.8	4.7	
Data warehousing						
Reduced >5%	2.4	-	-	2.4	2.9	
Reduced 4-5%	0.6	_	-	-	1.2	
Reduced 1-3%	2.6	3.1	2.4	3.6	1.8	
No change	68.2	69.2	47.6	53.0	77.7	
•						
Increased 1-3%	16.4	16.9	28.6	22.9	11.8	
Increased 4-5% Increased >5%	6.4 3.4	7.7	11.9	9.6	2.9	
	1 2/1	3.1	9.5	8.4	1.8	

	All Institutions	Unive Public	ersities Private	4-Year ( Public	Colleges Private	Communit Colleges
THIS YEAR'S COMPUTING BUDGET COMPARED TO LAST YEAR'S (continued)						Ū.
CRM services / software						
Reduced >5%	2.6	-	-	1.2	3.5	4
Reduced 4-5%	1.1	4.6	-	-	-	1
Reduced 1-3%	4.3	10.8	4.8	8.4	-	] 3
No change	71.6	70.8	59.5	67.5	72.4	78
Increased 1-3%	12.6	4.6	28.6	19.3	13.5	4
Increased 4-5%	4.7	4.6	2.4	1.2	6.5	5
Increased >5%	3.2	4.6	4.8	2.4	4.1	
Supporting Open Source projects / applications	0.2	1.0	1.0	2		`
Reduced >5%	3.6	1.5	2.4	3.6	3.5	
Reduced 4-5%	2.6	1.5	4.8	1.2	2.4	
Reduced 1-3%	3.2	6.2		2.4	2.4	
	81.0	78.5	78.6	84.3	81.2	8
No change						l
Increased 1-3%	7.5	10.8	9.5	6.0	7.7	
Increased 4-5%	1.1		-	2.4	1.2	
Increased >5%	1.1	1.5	4.8	-	1.2	
Business Continuity						
Reduced >5%	2.6	-	-	-	3.5	
Reduced 4-5%	0.6	-	-	-	0.6	
Reduced 1-3%	2.4	6.2	-	2.4	1.2	
No change	68.7	58.5	66.7	74.7	71.8	6
Increased 1-3%	19.8	21.5	26.2	19.3	18.2	1
Increased 4-5%	3.4	6.2		2.4	2.9	
Increased >5%	2.6	7.7	-	1.2	1.8	
Business analytics / Business Intelligence products	2.0	7.7		1.2	1.0	
Reduced >5%	2.6				3.5	
		-	-	-	3.3	
Reduced 4-5%	0.6	-	-	-	-	
Reduced 1-3%	2.8	6.2	-	1.2	2.4	
No change	59.5	49.2		47.0	68.8	6
Increased 1-3%	21.1	24.6	35.7	30.1	15.3	1
Increased 4-5%	8.1	12.3	9.5	13.3	4.7	
Increased >5%	5.3	7.7	7.1	8.4	5.3	
Emergency communication / notification services						
Reduced >5%	1.3	-	-	-	1.8	
Reduced 4-5%	0.6	_	-	1.2	0.6	
Reduced 1-3%	1.1	3.1	_	1.2	_	
No change	77.0	72.3	81.0	80.7	84.1	6
Increased 1-3%	13.4	16.9	14.3	13.3	7.7	
Increased 4-5%	4.9	6.2		2.4	4.1	4
Increased >5%	1.7	1.5	-	1.2	1.8	
Media management (capture, cataloging, archiving, etc.)					0.5	
Reduced >5%	2.8	1.5	2.4	1.2	3.5	
Reduced 4-5%	0.6	-	2.4	-	-	
Reduced 1-3%	2.8	3.1	2.4	2.4	2.4	
No change	62.1	64.6	47.6	63.9	61.2	6
Increased 1-3%	23.5	24.6	42.9	22.9	23.5	1
Increased 4-5%	6.2	6.2	2.4	4.8	7.7	
Increased >5%	2.1	_	-	4.8	1.8	
HE CAMPUS TECHNOLOGY BUDGET						
ercentage of campuses experiencing a mid-year cut in the computing						
budget cut, 2013-14	18.3	12.3	11.9	14.5	18.7	2
Percentage of budget that was cut	6.8	5.0	2.6	4.7	8.2	_
entral IT services budget for 2014-15 (mean)	\$ 9,644,062	\$ 26,643,860				
ercentage of central IT budget allocated to: (mean)	\$ 0,011,00Z		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.,021,010	2 .,0 10,011	, 1,001,
Hardware	16.4	12.2	14.2	14.8	19.0	1
						l
Software	14.9	12.4	12.0	13.2	17.3	,
Personnel	52.5	57.4	55.9	57.6	46.6	5
Content licenses	5.6	4.2	3.5	4.3	6.3	
User support	13.8	14.5	10.6	13.6	14.3	1
Network service / support	13.1	16.0	11.3	12.8	14.1	1
lote: numbers may not equal 100% because of overlapping budget categories						
entral IT services as an estimated percentage of total						
institutional computing / IT expenditures	66.2	49.4	64.8	62.4	77.4	6
otal institutional computing / IT expenditures as an estimated percentage	00.2	43.4	04.0	02.4	11.4	<u> </u>
of the total institutional budget	6.1	4.5	4.7	5.9	5.3	

	All Universities Institutions Public Private			4-Year Public	Community Colleges	
Annual communities for a firm and in a section and in a s				. 50110	Private	
Annual expenditures for software licensing and maintenance fees paid to vendors for software and services for the following ERP, administrative, and						
instructional applications systems for 2013-14 (means)						
Alumni / Advancement / Development	\$ 52,236	\$ 115,481	. ,	\$ 31,831		\$ 16,874
Business Intelligence / Big Data analytics	74,959	149,565	118,556	72,748	35,797	51,008
CRM	65,487	108,571	129,296	48,301	54,174	42,851
Finance / Accounting	159,635	359,789	468,649	130,567	53,704	76,015
ePortfolio services	31,845	47,942	87,365	16,320	22,647	13,900
				36,270	12.122	18,493
Grants and Research Management	68,027	115,261	140,074		,	
Learning management systems	145,661	307,432	185,545	123,581	91,308	119,194
Lecture capture and campus video management	48,806	123,069	61,317	35,224	22,529	29,266
Library system management	67,794	152,116	104,282	67,082	49,055	45,378
Human resources (recruitment)	40,466	78,566	40,389	64,655	21,607	24,970
Human resources (HR records and payroll)	107,524	277,484	274,406	63,104	38,899	56,324
Student information system	200,659	411,057	330,986	185,069	109,854	161,493
Current replacement cycle for desktop / notebook computers (percentages)		,	222,222	100,000	,	101,100
Student labs						
	0.0				0.6	
1 year	0.2	_	-		0.6	1
2 years	2.8		4.8	2.4	3.5	
3 years	29.2	27.7	45.2	24.1	33.3	
4 years	45.3	52.3	45.2	44.6	45.6	41.3
5 years	22.6	20.0	4.8	28.9	17.0	34.9
Faculty offices						
1 year	_	] _	_	_	_	_
2 years	0.6	_	_	2.4	0.6	_
		42.0				1
3 years	16.2	13.9	28.6	18.1	18.1	8.3
4 years	55.3	58.5	64.3	48.2	62.0	1
5 years	27.9	27.7	7.1	31.3	19.3	46.8
Administrative offices						
1 year	_	_	-	_	-	-
2 years	0.2	_	_	_	0.6	_
3 years	11.1	9.2	11.9	12.1	14.0	
						1
4 years	55.7	66.2	78.6	50.6	58.5	
5 years	33.0	24.6	9.5	37.4	26.9	53.2
Does your institution have a financial plan to upgrade / enhance / replace the						
campus network (including wireless network?) (percentages)						
No current plan / policy	6.6	1.5	7.1	4.8	7.6	9.2
Under discussion / development	23.2	26.2	4.8	24.1	27.5	21.1
Currently funded network replacement / upgrade plan	70.2	72.3	88.1	71.1	64.9	
As of September 2014, will your institution have an operational campus-wide	10.2	12.0	00.1	71.1	04.5	05.7
(emergency) notification system? (percentages)						
No	0.9	-	-	-	-	3.7
Yes	99.2	100.0	100.0	100.0	100.0	96.3
As of September 2014, will your institution use a third party provider for						
notification software or services? (percentages)						
No	4.1	1.5	2.4	4.8	1.8	9.3
Blackboard Connect	31.7	29.7	31.7	34.2		32.0
E2Campus	17.2	9.4	9.8	10.1	21.6	1
MIR3	1.8	3.1	4.9	2.5	1.2	
3n / Everbridge	3.4	4.7	7.3	2.5	4.2	-
Rave	27.7	35.9	31.7	31.7	25.8	1
Send Word Now	2.2	1.6	7.3	3.8		
Other	14.7	15.6	7.3	15.2		
CampusCruiser	0.5	-	-	-	0.6	
SchoolMessenger	0.9	-	-	-	0.6	
Switftreach Networks	-	-	-	-	-	-
Over the past year (2013-14), did you activate your notification service?						
No	18.4	14.1	14.6	13.9	20.6	22.7
If yes, for what purpose did you activate your notification service?	1					
Emergency notification	82.4	90.7	74.3	85.3	79.4	82.7
		I .	14.3			
Student recruitment (contacting prospective students)	4.4	1.9	- - :	4.4		
Severe weather alerts	83.5	81.5	74.3	77.9	88.5	1
Student services (academic services for current students)	8.5	7.4	2.9	7.4	2.3	24.0
Alumni contact / services	1.1	1.9	-	1.5		
		16.7			0.0	1.00

	All Institutions	Univer Public	sities Private	4-Year C	olleges Private	Community Colleges
WEB AND NETWORKING ISSUES	motitutions	1 dollo	Tivate	Tublic	Tilvate	ooneges
WEB AND NETWORKING ISSUES How important are the following issues on your campus?*						
(1=not important; 7=very important)						
percentage reporting "very important (scale score 6/7)						
100Gb Ethernet	53.2	75.4	64.3	57.8	46.2	43.1
Addressing the rapidly growing demand for network bandwidth	81.1	86.2	78.6	84.3	80.7	77. <i>′</i>
Bandwidth for Software as a Service / SaaS applications	32.6	29.2	45.2	33.7	31.6	30.3
BYOD (Bring your own device) support	60.6	64.6	52.4	63.9	59.6	60.6
Cloud computing	54.7	58.5	76.2	55.4	51.5	48.6
Collaborative agreements with other institutions and community agencies	30.2	40.0	19.0	36.1	25.1	32.1
Data encryption	64.3	72.3	73.8	74.7	60.8	53.5
Digital image libraries / archives	32.6	40.0	40.5	20.5	34.5	31.3
Disaster recovery	71.3	70.8	78.6	79.5	68.4	67.0
Grid computing	8.9	24.6	19.0	6.0	4.7	4.0
Guest access / services on the campus network	47.7	58.5	54.8	48.2	46.8	39.4
Identity management	68.5	83.1	76.2	77.1	58.5	66.
Internet2	25.7	70.8	57.1	20.5	14.0	9.2
IT Disaster Communications Capacity	58.3	67.7	64.3	65.1	52.0	55.0
Large data sets and 3D modeling / file sharing	19.2	41.5	33.3	16.9	12.9	11.9
Making campus networks accessible to Smart Phones	54.7	66.2	54.8	55.4	55.0	46.8
Net+ services from Internet2	17.0	53.8	23.8	21.7	7.0	4.0
Network security	90.2	92.3	95.2	95.2	86.5	89.
Quality of cellular coverage that commercial services provide for your campus	38.9	52.3	45.2	42.2	38.6	26.0
Replacement cycle for network infrastructure	71.1	84.6	73.8	69.9	69.0	66.
Statenets / Statenet services	13.2	32.3	21.4	10.8	9.4	6.4
Video / rich media streaming	59.6	66.2	76.2	60.2	59.6	48.0
Virtual private networks (VPN)	50.9	67.7	64.3	45.8	45.6	47.
VoIP	60.0	67.7	54.8	66.3	56.7	57.8
Does your institution charge students for printing? (percentages)						
No No	18.7	3.1	7.1	9.6	28.1	24.8
Annual / term fee for all printing	1.5	1.5	-	2.4	1.8	0.9
Annual / term fee for specific number of pages	19.4	24.6	11.9	21.7	20.5	15.6
Pay for use / individual page charges	41.3	58.5	57.1	53.0	24.6	42.2
Other payment plan for printing services	19.2	12.3	23.8	13.3	25.2	16.5
for the following applications: (percenatges)  Calendaring  No	30.9	26.2	23.8	26.5	28.7	43.
Under review	21.7	24.6	23.8	26.5	18.1	21.1
Converting to / now using  Administrative computing / ERP services	47.5	49.2	52.4	47.0	53.2	35.8
, ,	66.0	62.4	50.0	60.7	70.0	64.5
No Hada savian	66.0	63.1	50.0	68.7	70.8	64.2
Under review	25.3	30.8	31.0	22.9	25.2	22.0
Converting to / now using	8.7	6.2	19.1	8.4	4.1	13.8
CRM services No	53.0	50.8	45.2	48.2	50.3	65.
Under review	22.8	27.7	26.2	25.3	19.9	21.
Converting to / now using	24.3	21.7	28.6	26.5	29.8	13.
Learning to / now using  Learning management systems / LMS services	24.3	21.5	20.0	20.5	25.0	13.0
Learning management systems / LMS services   No	36.6	36.9	35.7	41.0	38.6	30.
Under review	19.4	30.8	26.2	16.9	30.0 19.9	30. 11.
Converting to / now using	44.0	32.3	38.1	42.2	41.5	58.
Research and HPC activities	44.0	32.3	JU. I	42.2	41.3	50.
No	73.0	44.6	45.2	68.7	83.0	88.
Under review	20.0	44.6	38.1	25.3	11.7	7.
Converting to / now using	7.0	10.8	16.7	6.0	5.3	4.
Storage / archiving / business continuity	7.0	10.0	10.1	0.0	0.0	7.1
No	32.1	24.6	16.7	27.7	33.3	44.
Under review	48.9	66.2	52.4	49.4	45.0	44.
Converting to / now using	18.9	9.2	31.0	22.9	21.6	12.8
Is your institution reviewing or converting to outsourced / hosted applications:	10.5	J.L	31.0	££.J	21.0	12.
(percenatges)  Hosted / outsourced email  For Students						
No	6.2	7.7	4.8	2.4	7.0	7.
Under review	10.2	6.2	11.9	7.2	14.0	8.
Converting to / now using	83.6	86.2	83.3	90.4	79.0	84.4
For Faculty	00.0	00.2	00.0	JUT	7 3.0	J4.
No	30.0	23.1	33.3	30.1	24.6	41.
Under review	24.9	30.8	19.1	25.3	22.8	26.
CHAOL LOTION		50.0	10.1	20.0	22.0	۷٠.

	All	Univers	eitiae	4-Year Co	ollones	Community
	Institutions	Public	Private	Public	Private	Colleges
Converting to Outsourced Applications (continued)						
Email Provider						
Google	48.2	45.3	61.5	50.0	51.9	37.6
Microsoft	50.9	51.6	38.5	50.0	46.9	62.4
Zimbra	0.9	3.1	-	-	1.3	-
Hosted / outsourced "office" applications No	24.5	16.9	21.4	20.5	25.2	32.1
Under review	35.1	40.0	31.0	39.8	32.8	33.9
Converting to / now using	40.4	43.1	47.6	39.8	42.1	33.9
Percent under review, Likely Product	40.4	70.1	41.0		72.1	00.3
Google Apps / Docs for education	20.5	8.3	27.3	33.3	20.8	14.3
Microsoft Live @ EDU / Office 365 for education	79.5	91.7	72.7	66.7	79.3	85.7
Percent converting to / now using, Product						
Google Apps / Docs for education	45.0	44.4	55.0	39.4	54.2	27.0
Microsoft Live @ EDU / Office 365 for education	55.0	55.6	45.0	60.6	45.8	73.0
ORCANIZATIONAL AND BLANNING ISSUES						
ORGANIZATIONAL AND PLANNING ISSUES Has your institution reorganized computing / information service units within the				<u> </u>		
past 2 years?* (percentages)						
Central IT services	50.2	64.6	61.9	55.4	42.7	45.0
Libraries	20.9	20.0	31.0	14.5	22.2	20.2
Telecom	30.6	36.9	33.3	38.6	25.1	28.4
Do you anticipate a reorganization of computing / information services within the	30.0		30.0			20.7
next 2 years?* (percentages)						
Central IT services	45.7	61.5	54.8	57.8	40.4	32.1
Libraries	17.4	18.5	21.4	18.1	18.7	12.8
Telecom	26.6	30.8	28.6	32.5	27.5	17.4
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	30.9	46.2	38.1	38.6	24.0	23.9
Libraries	6.8	7.7	14.3	4.8	7.0	4.6
Telecom	11.7	18.5	9.5	15.7	9.9	8.3
Does institution have a chief information / technology officer (CIO / CTO)? (pct.)						
No	14.3	-	4.8	4.8	22.2	21.1
Currently under discussion	3.2	3.1	-	3.6	3.5	3.7
Yes What academic and operational units report to the CIO / CTO?* (pct.)	82.6	96.9	95.2	91.6	74.3	75.2
Academic computing	89.7	88.9	92.5	89.5	90.7	87.8
Administrative computing	99.5	100.0	100.0	98.7	100.0	98.8
Libraries	13.3	3.2	10.0	9.2	20.9	14.6
Media center / services	12.6	7.9	7.5	11.8	14.0	17.1
Telecommunications	73.3	60.3	70.0	76.3	79.8	72.0
Distance / online education programs	94.9	96.8	95.0	96.1	93.0	95.1
Institutional research / analytics	23.6	19.0	22.5	19.7	24.0	30.5
Is the CIO (or senior institutional computing / IT officer) a member of the						
president's cabinet / executive committee? (percentages)	63.1	61.9	70.0	67.1	52.7	73.2
Does your campus have a						
Chief / senior learning or instructional officer	19.6	13.8	11.9	25.3	7.6	40.4
Chief / senior officer for online education	30.9	50.8	28.6	32.5	18.1	38.5
Chief / senior officer for innovation	8.9	15.4	11.9	8.4	7.6	6.4
Does your institution have a board / trustee committee on computing /	Ι Τ		T			
information technology?						
No	68.5	60.0	59.5	50.6	76.6	78.0
Under discussion	6.2	9.2	9.5	9.6	3.5	4.6
To begin in A/Y 2014-15	1.9	4.6	2.4	2.4	1.2	0.9
Yes, current board committee on computing / IT issues	23.4	26.2	28.6	37.4	18.7	16.5
Which unit provides tech support for most departmental computer labs?		40.0	40.7	0.0	4.0	
Individual department	5.5	16.9	16.7	6.0	1.8	- 00.0
Central IT service unit Both	70.9 23.6	29.2 53.9	38.1 45.2	66.3 27.7	84.8 13.5	89.9 10.1
	23.0		45.2		13.3	10.1
How does your institution deal with the "life cycle" of desktop computers for faculty, classrooms, clusters, and labs?						
One time allocation	6.8	15.4	7.1	8.4	3.5	5.5
Developing budget	14.5	29.2	4.8	25.3	7.0	12.8
Have budget	78.7	55.4	88.1	66.3	89.5	81.7
Which statement below best describes the way your campus manages	70.1	30.1	30.1		30.0	V1.1
the institutional presence and messaging on Facebook, Twitter, and						
other social media? (percenatges)						
Individual departments operate with great autonomy	34.7	49.2	33.3	37.4	33.9	25.7
A central office monitors the activities of individual departments and units	""	10.2	00.0	VI. 1	00.0	
but we do not have broad institutional policies or guidelines for social media	27.9	27.7	33.3	32.5	25.7	25.7
but we do not have broad institutional policies of guidelines for social media						
A central office is responsible for setting the overall policies for and					l	

	All Institutions	Univers Public	ities Private	4-Year C Public	Colleges Private	Community Colleges
T SECURITY INCIDENTS IN THE PAST YEAR						
What types of security incidents did your campus experience in the past year?						
Theft of computer, phone, tablet, thumb drive, or other device containing confidenti	38.3	58.5	57.1	32.5	32.2	33.
Hack / attack on the campus network	48.3	73.8	73.8	59.0	33.9	37.
Hack / attack on student / personnel / alumni data files	11.5	30.8	19.0	14.5	5.3	4.
Hack / attack on administrative / financial files	9.6	27.7	16.7	10.8	2.9	5.
Hack / attack on research data files	5.7	21.5	16.7	2.4	1.8	0.
Other attack on institutional data files	10.6	27.7	23.8	10.8	4.1	5.
Identity management issues	30.6	53.8	28.6	38.6	25.1	20.
Major computer virus infestation	10.2	21.5	19.0	8.4	7.0	6.
Major spyware / malware infestation	11.5	20.0	9.5	8.4	11.1	10.
Student security "incident" related to social networking sites	15.5	23.1	19.0	16.9	18.1	4.
Exposure / loss of sensitive data in distributed environment (server not managed by	13.4	33.8	26.2	19.3	4.7	5.
Intentional employee transgressions affecting IT security	10.9	12.3	14.3	9.6	8.8	12.
Data security, reliability, or integrity issues involving Cloud services	4.5	10.8	2.4	1.2	3.5	5.
low concerned are you about the following security issues for your institution in						
he coming year? (means; scale from 1="low" to 5="high")						
Theft of computer, phone, tablet, thumb drive, or other device containing confidenti	4.7	5.0	4.9	4.7	4.7	4.
Hack / attack on the campus network	4.6	4.8	4.6	4.6	4.6	4.
Hack / attack on student / personnel / alumni data files	4.3	4.6	4.3	4.4	4.2	4.
Hack / attack on administrative / financial files	4.4	4.6	4.2	4.4	4.3	4.
Hack / attack on research data files	3.4	4.4	4.0	3.5	3.0	2
Other attack on institutional data files	4.1	4.4	4.0	4.2	4.0	4
Identity management issues	4.4	4.5	4.3	4.4	4.4	4
Major computer virus infestation	3.8	3.8	3.7	3.7	3.7	3
Major spyware / malware infestation	3.9	3.9	3.6	3.8	3.9	4
Student security "incident" related to social networking sites	3.7	3.5	3.5	3.7	3.7	3
Exposure / loss of sensitive data in distributed environment (server not managed by	4.2	5.2	4.6	4.6	3.8	3
Intentional employee transgressions affecting IT security	3.7	3.5	3.7	3.8	3.6	3
Data security, reliability, or integrity issues involving Cloud services	4.3	4.4	4.5	4.4	4.3	4
MIGRATING TO CLOUD/SaaS-BASED OR OPEN SOURCE APPLICATIONS						
iource applications by fall 2019? (scale: 1=not likely; 7-very likely)  Percentage reporting "very likely" (scale score 6 or 7 on a 1-7 scale)						
Cloud / Software as a Service (SaaS) Applications						
Collaboration Platforms / Applications	38.5	40.6	35.7	41.5	43.3	28
Content Management System	28.2	23.4	28.6	30.5	29.2	27
Continuing Education Management Platform	15.2	14.1	19.0	17.1	9.9	21
Learning Management System	47.0	42.2	42.9	51.2	48.0	46
CRM services	32.3	29.7	40.5	36.6	38.0	18
Development System	13.0	7.8	19.0	15.9	14.6	9
Financial System	10.5	9.4	21.4	12.2	8.2	9
ePortfolio System	34.2	20.3	26.2	40.2	46.8	21
Business Intelligence / Big Data analytics	12.0	14.1	16.7	15.9	9.4	10
HR System	22.4	18.8	26.2	17.1	25.7	22
Lecture Capture	26.1	21.9	31.0	29.3	27.5	22
Video Management	24.1	040		217	25.1	19
		21.9	21.4	31.7		
Student Information System	9.8	6.3	14.3	11.0	8.8	11
Research / Grants Management System	9.8 12.2	6.3 18.8	14.3 16.7	11.0 14.6	8.8	10
Research / Grants Management System Student ePortfolio System	9.8	6.3	14.3	11.0		10
Research / Grants Management System Student ePortfolio System Open Source Applications	9.8 12.2 28.4	6.3 18.8 17.2	14.3 16.7 21.4	11.0 14.6 32.9	8.8 42.1	10 12
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications	9.8 12.2 28.4	6.3 18.8 17.2	14.3 16.7 21.4	11.0 14.6 32.9	8.8 42.1 17.0	10
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System	9.8 12.2 28.4	6.3 18.8 17.2 9.4 10.9	14.3 16.7 21.4	11.0 14.6 32.9 14.6 30.5	8.8 42.1	10 12
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform	9.8 12.2 28.4	6.3 18.8 17.2 9.4 10.9 4.7	14.3 16.7 21.4	11.0 14.6 32.9 14.6 30.5 4.9	8.8 42.1 17.0	10 12 7 12
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System	9.8 12.2 28.4 13.0 21.8 4.1 29.1	6.3 18.8 17.2 9.4 10.9 4.7 21.9	14.3 16.7 21.4 14.3 26.2 11.9 23.8	11.0 14.6 32.9 14.6 30.5 4.9 24.4	8.8 42.1 17.0 26.3 3.5 42.1	10 12 7 12 0
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5	8.8 42.1 17.0 26.3 3.5 42.1 4.7	10 12 7 12 0 18
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6	10 12 12 0 18
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System Financial System	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8 4.9	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 4.7 12.5	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 4.8	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9	1:
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 4.7 12.5 12.5	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 4.8 2.4 14.3	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5 18.3	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9 15.8	10 12 12 11 11 11
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System Financial System	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8 4.9	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 4.7 12.5 12.5 3.1	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 4.8	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9	11 11 11 11 11 11 11 11 11 11 11 11 11
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System Financial System ePortfolio System	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8 4.9 13.7	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 4.7 12.5 12.5	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 4.8 2.4 14.3	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5 18.3	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9 15.8	10 12 12 12 18 2
Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System Financial System ePortfolio System Business Intelligence / Big Data analytics	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8 4.9 13.7 4.7	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 4.7 12.5 12.5 3.1	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 2.4 14.3 2.4	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5 18.3 7.3	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9 15.8 3.5	10 12 12 12 18 2
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Research / Grants Management System Student ePortfolio System Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System Financial System ePortfolio System Business Intelligence / Big Data analytics HR System Lecture Capture	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8 4.9 13.7 4.7 3.2 10.7	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 12.5 12.5 3.1 6.3 14.1	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 2.4 14.3 2.4 2.4 11.9	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5 18.3 7.3 4.9	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9 15.8 3.5 1.8 7.6	10 12 12 13 14 18 22 17
Research / Grants Management System Student ePortfolio System  Open Source Applications Collaboration Platforms / Applications Content Management System Continuing Education Management Platform Learning Management System CRM services Development System Financial System ePortfolio System Business Intelligence / Big Data analytics HR System Lecture Capture Video Management	9.8 12.2 28.4 13.0 21.8 4.1 29.1 4.9 2.8 4.9 13.7 4.7 3.2 10.7 7.3	6.3 18.8 17.2 9.4 10.9 4.7 21.9 4.7 12.5 12.5 3.1 6.3 14.1	14.3 16.7 21.4 14.3 26.2 11.9 23.8 4.8 2.4 14.3 2.4 2.4 11.9 7.1	11.0 14.6 32.9 14.6 30.5 4.9 24.4 8.5 6.1 8.5 18.3 7.3 4.9 13.4	8.8 42.1 17.0 26.3 3.5 42.1 4.7 0.6 2.9 15.8 3.5 1.8 7.6	11 11 11 11 11 11 11 11 11 11 11 11 11



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