In the summer of 2015, 3,500 institutions were invited to contribute data to the EDUCAUSE Core Data Service (CDS). This almanac summarizes data from a subset of responding institutions. Some publicly available data from the Integrated Postsecondary Education Data System (IPEDS, www.nces.ed.gov/ipeds/) are used in calculating metrics. Reported statistics are either an estimated proportion of the population or an estimated median (rather than a mean). CDS participants can access data at www.educause.edu/coredata; non-participants can access other CDS resources at this site.

**CORE METRICS**

- $684 Total central IT spending per institutional FTE (students, faculty, and staff)
- $5,893 Total central IT spending per institutional employee FTE (faculty and staff)
- $770 Total central IT spending per student FTE
- 4.3% Total central IT spending as a percentage of institutional expenses
- 37% Percentage of institutions with a 5% or greater increase in central IT spending
- 25% Percentage of institutions with a 5% or greater decrease in central IT spending
- 34% Central IT noncompensation operating spending as a percentage of total central IT spending
- 56% Central IT compensation spending as a percentage of total central IT spending
- 4% Central IT capital spending as a percentage of total central IT spending
- $990 Central IT training spending per central IT staff FTE
- 1% Central IT outsourcing spending as a percentage of total central IT spending
- 4.3% Central IT staff FTEs as a percentage of institutional employee FTEs
- 23% Central IT student worker FTEs as a percentage of total central IT FTEs
- 7.0 Central IT FTEs per 1,000 institutional FTEs

**INSTITUTIONAL IT STRATEGY**

- 60% Institutions whose highest-ranking IT officer is on presidential cabinet
- 75% Institutions with a designated student technology fee
- $204 Median student technology fee (annualized)
- 80% Percentage of total central IT spending on running the institution
- 13% Percentage of total central IT spending on growing the institution
- 5% Percentage of total central IT spending on transforming the institution

**SUPPORT SERVICES**

- 16% Central IT support services spending as a percentage of total central IT spending
- 2.2 Central IT support services FTEs per 1,000 institutional FTEs
- 1.0 Desktop computing FTEs per 1,000 institutional FTEs
- 0.8 IT help desk FTEs per 1,000 institutional FTEs
- 99% Institutions offering self-service options for central IT help desk services
- 77% Institutions offering tier 2/level 2 service or higher for central IT help desk
- 51% Institutions with full deployment of private-cloud storage
- 54% Institutions with full deployment of virtual desktop infrastructure
- 49% Institutions with full deployment of application virtualization

**EDUCATIONAL TECHNOLOGY SERVICES**

- 10% Central IT educational technology services spending as a percentage of total central IT spending
- 1.1 Central IT educational technology services FTEs per 1,000 institutional FTEs
- 12 Student FTEs per lab/cluster workstation provided by central IT
- 694 Student FTEs per kiosk workstation provided by central IT
- 108 Student FTEs per virtual lab/cluster workstation provided by central IT
- 241 Student FTEs per laptop/tablet provided by central IT for checkout or loan
- 87% Institutions with collaborative spaces
- 71% Institutions with team-based classrooms
- 29% Institutions with makerspaces

**Most common teaching and learning support services:**

- Classroom technology and support for faculty (100%)
- Faculty group and individual training in use of educational technology (100%)
- Instructional technologists to assist faculty and instructional designers with integration of IT into teaching and learning (100%)
- Learning management training and support for faculty (100%)
- Online learning technology and support for faculty and students (100%)
- Technology-enhanced spaces (100%)

**Most commonly deployed e-learning technologies:**

- Full-function online learning delivery system (98%)
- Collaboration tools for learning (93%)
- Real-time web or videoconferencing online learning environment (92%)

**Most commonly deployed student success technologies:**

- Degree audit (92%)
- Credit transfer/articulation system (70%)
- Academic early-alert system (63%)

**Classroom technologies most likely to be deployed soon:**

- Wireless projection (38%)
- Automated lecture capture systems (audio and video) (24%)
- Automated lecture capture systems (audio only) (18%)
- Remote monitoring for technical support (18%)
RESEARCH TECHNOLOGY SERVICES

0% Central IT research technology services spending as a percentage of total central IT spending
0.0 Central IT research technology services FTEs per 1,000 institutional FTEs
15% Institutions providing integrated IT support for research computing
35% Institutions planning to provide integrated IT support for research computing
* TFLOPS capacity among institutions with high-performance computing

Most common IT-related research consulting and support services:
• Review and/or approval of other technical aspects of research projects (96%)
• Review and/or approval of information security plans for research involving sensitive data (92%)
• Consulting/support for storage solutions and data access (88%)

Services most commonly made available to external entities:
• Access to specialized scientific apparatus (20%)
• High-performance computing (12%)
• Server hosting (12%)
• Visualization resources (12%)

Most commonly deployed research computing systems and technologies:
• High-performance local area network (71%)
• High-performance wide area network (59%)
• Specialized software support (59%)

DATA CENTERS

3% Central IT data center spending as a percentage of total central IT spending
0.1 Central IT data center FTEs per 1,000 institutional FTEs
34% Institutions using commercial data center services
71% Institutions participating in cross-institutional data center hosting
73% Institutions using SaaS to provide data center services
22% Institutions using PaaS to provide data center services
33% Institutions using IaaS to provide data center services
31% Institutions that tested data center disaster recovery plans in past year
1% Institutions that have no data center disaster recovery plans in place

COMMUNICATIONS INFRASTRUCTURE

9% Central IT communications infrastructure spending as a percentage of total central IT spending
0.6 Central IT communications infrastructure FTEs per 1,000 institutional FTEs
60% Proportion of access points that are 802.11n
15% Proportion of access points that are 802.11ac
49% Ports that are PoE capable
6.0 Expected service lifetime of core/backbone network access layer (years)
0.4 Wired network hosts per wired network port
8.8 Wireless network hosts per wireless port
49% Institutions that provide ubiquitous cell service

Services provided in student housing with data networks:
• Landlines in some or all rooms (63%)
• Managed streaming services (19%)

Communications infrastructure technologies most likely to be deployed soon:
• IPv6 (64%)
• Softphones (39%)
• Unified communications and collaboration (36%)

INFORMATION SECURITY

2% Central IT information security spending as a percentage of total central IT spending
0.1 Central IT information security FTEs per 1,000 institutional FTEs
79% Institutions with mandatory information security training for faculty or staff
34% Institutions with mandatory information security training for students
62% Institutions that are members of an authentication federation (e.g., InCommon)
83% Institutions that have conducted any sort of IT security risk assessment

Most commonly deployed information security systems and technologies:
• Malware protection (97%)
• Secure wireless access (94%)
• Secure remote access (91%)

INFORMATION SYSTEMS AND APPLICATIONS

17% Central IT information systems spending as a percentage of total central IT spending
0.9 Central IT information systems FTEs per 1,000 institutional FTEs

Systems most commonly vendor hosted (IaaS):
• E-mail: student (13%)
• E-mail: faculty/staff (11%)
• Learning management (8%)

Systems most commonly vendor managed (PaaS):
• Web content management (4%)
• E-mail: faculty/staff (4%)
• E-mail: student (4%)

Systems most commonly vendor managed (SaaS):
• E-mail: student (63%)
• E-mail: faculty/staff (36%)
• Customer relationship management (CRM) (33%)

Systems most likely to be replaced in the next three years:
• E-mail: faculty/staff (29%)
• Customer relationship management (CRM) (29%)
• Data warehouse (24%)

Systems most commonly mobile friendly:
• E-mail: student (65%)
• Learning management (59%)
• E-mail: faculty/staff (58%)

* Sample size of fewer than 15 institutions