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**

- $1,281 Total central IT spending per institutional FTE (students, faculty, and staff)
- $6,211 Total central IT spending per institutional employee FTE (faculty and staff)
- $1,624 Total central IT spending per student FTE
- 4.4% Total central IT spending as a percentage of institutional expenses
- 39% Percentage of institutions with a 5% or greater increase in central IT spending
- 15% Percentage of institutions with a 5% or greater decrease in central IT spending
- 33% Central IT noncompensation operating spending as a percentage of total central IT spending
- 52% Central IT compensation spending as a percentage of total central IT spending
- 14% Central IT capital spending as a percentage of total central IT spending
- $1,214 Central IT training spending per central IT staff FTE
- 3% Central IT outsourcing spending as a percentage of total central IT spending
- 4.2% Central IT staff FTEs as a percentage of institutional employee FTEs
- 33% Central IT noncompensation operating spending as a percentage of total central IT spending
- 52% Central IT compensation spending as a percentage of total central IT spending
- 14% Central IT capital spending as a percentage of total central IT spending
- $1,214 Central IT training spending per central IT staff FTE
- 3% Central IT outsourcing spending as a percentage of total central IT spending
- 4.2% Central IT staff FTEs as a percentage of institutional employee FTEs
- 19% Central IT student worker FTEs as a percentage of total central IT FTEs
- 11.1 Central IT FTEs per 1,000 institutional FTEs

**INSTITUTIONAL IT STRATEGY**

- 53% Institutions whose highest-ranking IT officer is on presidential cabinet
- 33% Institutions with a designated student technology fee
- $300 Median student technology fee (annualized)
- 83% Percentage of total central IT spending on running the institution
- 11% 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
- 3.7 Central IT support services FTEs per 1,000 institutional FTEs
- 1.5 Desktop computing FTEs per 1,000 institutional FTEs
- 1.9 IT help desk FTEs per 1,000 institutional FTEs
- 93% Institutions offering self-service options for central IT help desk services
- 86% Institutions offering tier 2/level 2 service or higher for central IT help desk
- 57% Institutions with full deployment of private-cloud storage
- 44% Institutions with full deployment of virtual desktop infrastructure
- 50% Institutions with full deployment of application virtualization

**EDUCATIONAL TECHNOLOGY SERVICES**

- 9% Central IT educational technology services spending as a percentage of total central IT spending
- 1.2 Central IT educational technology services FTEs per 1,000 institutional FTEs
- 6 Student FTEs per lab/cluster workstation provided by central IT
- 254 Student FTEs per kiosk workstation provided by central IT
- 48 Student FTEs per virtual lab/cluster workstation provided by central IT
- 98 Student FTEs per laptop/tablet provided by central IT for checkout or loan
- 90% Institutions with collaborative spaces
- 54% Institutions with team-based classrooms
- 25% Institutions with makerspaces

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

- Classroom technology and support for faculty (100%)
- Classroom technology support for students (99%)
- Learning management training and support for faculty (99%)
- Technology-enhanced spaces (99%)

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

- Collaboration tools for learning (83%)
- Student evaluation of teaching effectiveness (82%)
- Full-function online learning delivery system (70%)
- Real-time web- or videoconferencing online learning environment (70%)

**Most commonly deployed student success technologies:**

- Degree audit (75%)
- Academic early-alert system (54%)
- Student extracurricular activities management system (46%)

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

- Wireless projection (48%)
- Automated lecture capture systems (audio and video) (28%)
- Automated lecture capture systems (audio only) (25%)
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
18% Institutions providing integrated IT support for research computing
25% 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:
- Consulting/support for storage solutions and data access (100%)
- Review and/or approval of information security plans for research involving sensitive data (97%)
- Review and/or approval of other technical aspects of research projects (97%)

Services most commonly made available to external entities:
- High-performance computing (8%)
- Server hosting (8%)
- Storage resources (5%)

Most commonly deployed research computing systems and technologies:
- Active data storage services (63%)
- Specialized software support (61%)
- High-performance computing (58%)
- High-performance local area network (58%)

DATA CENTERS

2% Central IT data center spending as a percentage of total central IT spending
0.2 Central IT data center FTEs per 1,000 institutional FTEs
28% Institutions using commercial data center services
24% Institutions participating in cross-institutional data center hosting
77% Institutions using SaaS to provide data center services
27% Institutions using PaaS to provide data center services
33% Institutions using IaaS to provide data center services
23% Institutions that tested data center disaster recovery plans in past year
7% Institutions with no data center disaster recovery plans in place

COMMUNICATIONS INFRASTRUCTURE

11% Central IT communications infrastructure spending as a percentage of total central IT spending
0.8 Central IT communications infrastructure FTEs per 1,000 institutional FTEs
58% Proportion of access points that are 802.11n
6% Proportion of access points that are 802.11ac
41% Ports that are PoE capable
7.0 Expected service lifetime of core/backbone network access layer (years)
0.3 Wired network hosts per wired network port
6.6 Wireless network hosts per wireless port
48% Institutions that provide ubiquitous cell service

* Sample size of fewer than 15 institutions

Services provided in student housing with data networks:
- Landlines in some or all rooms (63%)
- Managed streaming services (10%)

Communications infrastructure technologies most likely to be deployed soon:
- IPv6 (43%)
- Unified communications and collaboration (34%)
- Softphones (30%)

INFORMATION SECURITY

1% 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
59% Institutions with mandatory information security training for faculty or staff
22% Institutions with mandatory information security training for students
35% Institutions that are members of an authentication federation (e.g., InCommon)
69% Institutions that have conducted any sort of IT security risk assessment

Most commonly deployed information security systems and technologies:
- Malware protection (96%)
- Secure remote access (94%)
- Secure wireless access (86%)

INFORMATION SYSTEMS AND APPLICATIONS

18% Central IT information systems spending as a percentage of total central IT spending
1.8 Central IT information systems FTEs per 1,000 institutional FTEs

Systems most commonly vendor hosted (IaaS):
- E-mail: student (11%)
- Learning management (10%)
- Web content management (9%)

Systems most commonly vendor managed (PaaS):
- E-mail: student (6%)
- E-mail: faculty/staff (5%)
- Web content management (4%)
- Library (4%)

Systems most commonly vendor managed (SaaS):
- E-mail: student (58%)
- Customer relationship management (CRM) (47%)
- E-mail: faculty/staff (41%)

Systems most likely to be replaced in the next three years:
- Customer relationship management (CRM) (24%)
- IT service desk management (23%)
- E-mail: faculty/staff (20%)
- Web content management (20%)

Systems most commonly mobile friendly:
- E-mail: student (64%)
- E-mail: faculty/staff (61%)
- Web content management (60%)