

All Public Doctoral Institutions

(Carnegie Basic Classification 2010)

Number of 2015 CDS participants: 132

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

\$ 968	Total central IT spending per institutional FTE (students, faculty, and staff)
\$ 5,427	Total central IT spending per institutional employee FTE (faculty and staff)
\$ 1,155	Total central IT spending per student FTE
3.3%	Total central IT spending as a percentage of institutional expenses
39%	Percentage of institutions with a 5% or greater <i>increase</i> in central IT spending
19%	Percentage of institutions with a 5% or greater <i>decrease</i> in central IT spending
36%	Central IT noncompensation operating spending as a percentage of total central IT spending
55%	Central IT compensation spending as a percentage of total central IT spending
7%	Central IT capital spending as a percentage of total central IT spending
\$ 1,295	Central IT training spending per central IT staff FTE
1%	Central IT outsourcing spending as a percentage of total central IT spending
3.4%	Central IT staff FTEs as a percentage of institutional employee FTEs
16%	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

61%	Institutions whose highest-ranking IT officer is on presidential cabinet
77%	Institutions with a designated student technology fee
\$ 233	Median student technology fee (annualized)
78%	Percentage of total central IT spending on running the institution
12%	Percentage of total central IT spending on growing the institution
6%	Percentage of total central IT spending on transforming the institution

SUPPORT SERVICES

12%	Central IT support services spending as a percentage of total central IT spending
1.4	Central IT support services FTEs per 1,000 institutional FTEs
0.6	Desktop computing FTEs per 1,000 institutional FTEs
0.6	IT help desk FTEs per 1,000 institutional FTEs
98%	Institutions offering self-service options for central IT help desk services
84%	Institutions offering tier 2/level 2 service or higher for central IT help desk
74%	Institutions with full deployment of private-cloud storage
63%	Institutions with full deployment of virtual desktop infrastructure
68%	Institutions with full deployment of application virtualization

Annual number of tickets per institutional FTE among institutions with a central IT help desk that offers each mode:

- Walk-in tickets (0.1)
- Phone tickets (0.9)
- E-mail tickets (0.3)

EDUCATIONAL TECHNOLOGY SERVICES

10%	Central IT educational technology services spending as a percentage of total central IT spending
0.9	Central IT educational technology services FTEs per 1,000 institutional FTEs
35	Student FTEs per lab/cluster workstation provided by central IT
768	Student FTEs per kiosk workstation provided by central IT
123	Student FTEs per virtual lab/cluster workstation provided by central IT
333	Student FTEs per laptop/tablet provided by central IT for checkout or loan
96%	Institutions with collaborative spaces
75%	Institutions with team-based classrooms
32%	Institutions with makerspaces

Most common teaching and learning support services:

- Classroom technology and support for faculty (100%)
- Faculty individual training in use of educational technology (100%)
- Learning management training and support for faculty (100%)
- Technology-enhanced spaces (100%)

Most commonly deployed e-learning technologies:

- Full-function online learning delivery system (96%)
- Real-time web- or videoconferencing online learning environment (95%)
- Collaboration tools for learning (92%)

Most commonly deployed student success technologies:

- Degree audit (90%)
- Credit transfer/articulation system (76%)
- Advising center management (70%)

Classroom technologies most likely to be deployed soon:

- Wireless projection (36%)
- Automated lecture capture systems (audio and video) (16%)
- Automated lecture capture systems (audio only) (13%)
- Interactive external monitor (e.g., SMART Podiums) (13%)

RESEARCH TECHNOLOGY SERVICES

- 1% Central IT research technology services spending as a percentage of total central IT spending
- 0.1 Central IT research technology services FTEs per 1,000 institutional FTEs
- 34% Institutions providing integrated IT support for research computing
- 45% Institutions planning to provide integrated IT support for research computing
- 106.0 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 (97%)
- Assistance in preparing research grant applications (95%)
- Review and/or approval of other technical aspects of research projects (95%)

Services most commonly made available to external entities:

- High-performance computing (41%)
- Access to specialized scientific apparatus (38%)
- Storage resources (36%)

Most commonly deployed research computing systems and technologies:

- High-performance computing (87%)
- High-performance wide area network (76%)
- High-performance local area network (75%)

DATA CENTERS

- 4% 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
- 76% Institutions participating in cross-institutional data center hosting
- 82% Institutions using SaaS to provide data center services
- 26% Institutions using PaaS to provide data center services
- 36% Institutions using IaaS to provide data center services
- 46% Institutions that tested data center disaster recovery plans in past year
- 2% Institutions with no data center disaster recovery plans in place

COMMUNICATIONS INFRASTRUCTURE

- 21% Central IT communications infrastructure spending as a percentage of total central IT spending
- 0.9 Central IT communications infrastructure FTEs per 1,000 institutional FTEs
- 61% Proportion of access points that are 802.11n
- 19% Proportion of access points that are 802.11ac
- 39% Ports that are PoE capable
- 6.0 Expected service lifetime of core/backbone network access layer (years)
- 0.5 Wired network hosts per wired network port
- 10.5 Wireless network hosts per wireless port
- 73% Institutions that provide ubiquitous cell service

Services provided in student housing with data networks:

- Landlines in some or all rooms (63%)
- Managed streaming services (20%)

Communications infrastructure technologies most likely to be deployed soon:

- IPv6 (47%)
- Softphones (41%)
- Session Initiation Protocol (SIP) (36%)

INFORMATION SECURITY

- 3% Central IT information security spending as a percentage of total central IT spending
- 0.2 Central IT information security FTEs per 1,000 institutional FTEs
- 79% Institutions with mandatory information security training for faculty or staff
- 21% Institutions with mandatory information security training for students
- 82% Institutions that are members of an authentication federation (e.g., InCommon)
- 88% Institutions that have conducted any sort of IT security risk assessment

Most commonly deployed information security systems and technologies:

- Malware protection (95%)
- Secure remote access (91%)
- Secure wireless access (89%)

INFORMATION SYSTEMS AND APPLICATIONS

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

Systems most commonly vendor hosted (IaaS):

- E-mail: student (10%)
- Customer relationship management (CRM) (10%)
- Learning management (7%)

Systems most commonly vendor managed (PaaS):

- E-mail: student (8%)
- Web content management (5%)
- E-mail: faculty/staff (5%)

Systems most commonly vendor managed (SaaS):

- E-mail: student (66%)
- E-mail: faculty/staff (40%)
- Learning management (35%)

Systems most likely to be replaced in the next three years:

- Customer relationship management (CRM) (35%)
- E-mail: faculty/staff (24%)
- IT service desk management (23%)

Systems most commonly mobile friendly:

- E-mail: student (57%)
- Learning management (56%)
- E-mail: faculty/staff (55%)