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

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>637 Total central IT spending per institutional FTE (students, faculty, and staff)</td>
<td>$637</td>
</tr>
<tr>
<td>5,225 Total central IT spending per institutional employee FTE (faculty and staff)</td>
<td>$5,225</td>
</tr>
<tr>
<td>696 Total central IT spending per student FTE</td>
<td>$696</td>
</tr>
<tr>
<td>5.2% Total central IT spending as a percentage of institutional expenses</td>
<td>5.2%</td>
</tr>
<tr>
<td>23% Percentage of institutions with a 5% or greater increase in central IT spending</td>
<td>23%</td>
</tr>
<tr>
<td>23% Percentage of institutions with a 5% or greater decrease in central IT spending</td>
<td>23%</td>
</tr>
<tr>
<td>31% Central IT noncompensation operating spending as a percentage of total central IT spending</td>
<td>31%</td>
</tr>
<tr>
<td>51% Central IT compensation spending as a percentage of total central IT spending</td>
<td>51%</td>
</tr>
<tr>
<td>649 Central IT training spending per central IT staff FTE</td>
<td>$649</td>
</tr>
<tr>
<td>2% Central IT outsourcing spending as a percentage of total central IT spending</td>
<td>2%</td>
</tr>
<tr>
<td>4.0% Central IT staff FTEs as a percentage of institutional employee FTEs</td>
<td>4.0%</td>
</tr>
<tr>
<td>6% Central IT student worker FTEs as a percentage of total central IT FTEs</td>
<td>6%</td>
</tr>
<tr>
<td>5.2 Central IT FTEs per 1,000 institutional FTEs</td>
<td>5.2</td>
</tr>
</tbody>
</table>

## INSTITUTIONAL IT STRATEGY

- 65% Institutions whose highest-ranking IT officer is on presidential cabinet
- 72% Institutions with a designated student technology fee
- 251 Median student technology fee (annualized)
- 79% Percentage of total central IT spending on running the institution
- 12% Percentage of total central IT spending on growing the institution
- 8% 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
- 1.6 Central IT support services FTEs per 1,000 institutional FTEs
- 1.1 Desktop computing FTEs per 1,000 institutional FTEs
- 0.7 IT help desk FTEs per 1,000 institutional FTEs
- 78% Institutions offering self-service options for central IT help desk services
- 66% Institutions offering tier 2/level 2 service or higher for central IT help desk
- 41% Institutions with full deployment of private-cloud storage
- 41% Institutions with full deployment of virtual desktop infrastructure
- 39% Institutions with full deployment of application virtualization

## EDUCATIONAL TECHNOLOGY SERVICES

- 11% Central IT educational technology services spending as a percentage of total central IT spending
- 0.5 Central IT educational technology services FTEs per 1,000 institutional FTEs
- 472 Student FTEs per lab/cluster workstation provided by central IT
- 81 Student FTEs per virtual lab/cluster workstation provided by central IT
- 196 Student FTEs per laptop/tablet provided by central IT for checkout or loan
- 80% Institutions with collaborative spaces
- 52% Institutions with team-based classrooms
- 15% Institutions with makerspaces

### Most common teaching and learning support services:
- Classroom technology and support for faculty (100%)
- Online learning technology (100%)
- Technology-enhanced spaces (100%)

### Most commonly deployed e-learning technologies:
- Full-function online learning delivery system (99%)
- Real-time web- or videoconferencing online learning environment (87%)
- Student evaluation of teaching effectiveness (87%)

### Most commonly deployed student success technologies:
- Degree audit (71%)
- Academic early-alert system (63%)
- Advising center management (59%)

### Classroom technologies most likely to be deployed soon:
- Wireless projection (37%)
- Automatic lecture capture systems (audio and video) (28%)
- Interactive external monitor (e.g., SMART Podiums) (19%)
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
- 7% Institutions providing integrated IT support for research computing
- 11% 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:**

**Services most commonly made available to external entities:**

**Most commonly deployed research computing systems and technologies:**

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
- 24% Institutions using commercial data center services
- 53% Institutions participating in cross-institutional data center services
- 73% Institutions using SaaS to provide data center services
- 18% Institutions using PaaS to provide data center services
- 16% Institutions using IaaS to provide data center services
- 32% Institutions that tested data center disaster recovery plans in past year
- 13% Institutions with no data center disaster recovery plans in place

COMMUNICATIONS INFRASTRUCTURE

- 6% Central IT communications infrastructure spending as a percentage of total central IT spending
- 0.2 Central IT communications infrastructure FTEs per 1,000 institutional FTEs
- 82% Proportion of access points that are 802.11n
- 0% Proportion of access points that are 802.11ac
- 71% Ports that are PoE capable
- 7.0 Expected service lifetime of core/backbone network access layer (years)
- 0.5 Wired network hosts per wired network port
- 12.4 Wireless network hosts per wireless port
- 25% Institutions that provide ubiquitous cell service

**Services provided in student housing with data networks:**

- Landlines in some or all rooms (53%)
- Managed streaming services (21%)

**Communications infrastructure technologies most likely to be deployed soon:**

- IPv6 (32%)
- Network capacity planning and management tools (24%)
- Session initiation protocol (SIP) (24%)

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
- 83% Institutions with mandatory information security training for faculty or staff
- 30% Institutions with mandatory information security training for students
- 13% Institutions that are members of an authentication federation (e.g., InCommon)
- 80% Institutions that have conducted any sort of IT security risk assessment

**Most commonly deployed information security systems and technologies:**

- Malware protection (91%)
- Secure remote access (90%)
- Network intrusion prevention system (77%)
- Endpoint configuration management (77%)
- Secure wireless access (77%)

INFORMATION SYSTEMS AND APPLICATIONS

- 13% Central IT information systems spending as a percentage of total central IT spending
- 0.7 Central IT information systems FTEs per 1,000 institutional FTEs

**Systems most commonly vendor hosted (IaaS):**

- E-mail: student (15%)
- Learning management (14%)
- Web content management (8%)
- Customer relationship management (CRM) (8%)
- E-mail: faculty/staff (8%)

**Systems most commonly vendor managed (PaaS):**

- E-mail: student (5%)
- Learning management (5%)
- Web content management (2%)
- E-mail: faculty/staff (2%)

**Systems most commonly vendor managed (SaaS):**

- E-mail: student (56%)
- Learning management (39%)
- Customer relationship management (CRM) (36%)

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

- E-mail: faculty/staff (30%)
- Web content management (23%)
- Admissions: undergraduate (21%)

**Systems most commonly mobile friendly:**

- E-mail: student (63%)
- E-mail: faculty/staff (60%)
- Learning management (59%)

* Sample size of fewer than 15 institutions