In the summer of 2016, 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, 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.

### CENTRAL IT FUNDING

- **47%** Ongoing base funds available as a percentage of total central IT funds available at institutions reporting any ongoing base funds available
- **12%** Student technology fee funds available as a percentage of total central IT funds available at institutions reporting any student technology fee funds available
- **4%** Compensation paid from another source as a percentage of total central IT funds available at institutions reporting any compensation paid from another source
- **19%** Fee-based/cost-recovery funds available as a percentage of total central IT funds available at institutions reporting any fee-based/cost-recovery funds available
- **4%** One-time funds available as a percentage of total central IT funds available at institutions reporting any one-time funds available
- **10%** Carryover funds available as a percentage of total central IT funds available at institutions reporting any carryover funds available
- **80%** Institutions with a designated student technology fee
- **$267** Student technology fee revenue generated for the entire institution per student FTE
- **59%** Percentage of student technology fee funds allocated to central IT out of total student technology fee revenue generated for the institution

### CENTRAL IT SPENDING

- **$955** Total central IT spending per institutional FTE (students, faculty, and staff)
- **$5,368** Total central IT spending per institutional employee FTE (faculty and staff)
- **$1,170** Total central IT spending per student FTE
- **$1,212** Central IT spending on professional development per central IT staff FTE
- **3.1%** Total central IT spending as a percentage of institutional expenses
- **47%** Percentage of institutions with a 5% or greater increase in total central IT spending
- **30%** Percentage of institutions with a 5% or greater decrease in total central IT spending

### Central IT spending by type (as a percentage of total central IT spending):

- **53%** Ongoing compensation
- **0%** Fixed-term labor
- **1%** Professional development
- **34%** In-house infrastructure and services
- **4%** External providers

### Central IT spending by domain (as a percentage of total central IT spending):

- **8%** Administration and management of IT
- **13%** Support services
- **9%** Educational technology services
- **2%** Research computing services
- **19%** Communications infrastructure services
- **16%** Enterprise infrastructure and services
- **4%** Information security
- **17%** Information systems and applications

### CENTRAL IT STAFFING

- **57%** Institutions whose highest-ranking IT officer is on presidential cabinet
- **3.2%** Central IT staff FTEs as a percentage of institutional employee FTEs
- **19%** Student worker FTEs as a percentage of total central IT FTEs

- **7.4** Central IT FTEs per 1,000 institutional FTEs
- **0.5** Central IT administration and management of IT FTEs per 1,000 institutional FTEs
- **1.5** Central IT support services FTEs per 1,000 institutional FTEs
- **0.9** Central IT educational technology services FTEs per 1,000 institutional FTEs
- **0.1** Central IT research computing services FTEs per 1,000 institutional FTEs
- **0.9** Central IT communications infrastructure services FTEs per 1,000 institutional FTEs
- **1.1** Central IT enterprise infrastructure and services FTEs per 1,000 institutional FTEs
- **0.3** Central IT information security FTEs per 1,000 institutional FTEs
- **1.2** Central IT information systems and applications FTEs per 1,000 institutional FTEs
**DISTRIBUTED IT**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69%</td>
<td>Percentage of institutions with less than 75% centralization of IT expenditures</td>
</tr>
<tr>
<td>$1,161</td>
<td>Distributed IT spending per institutional FTE at institutions with less than 75% centralization of IT expenditures</td>
</tr>
<tr>
<td>46%</td>
<td>Distributed IT spending as a percentage of total institutional IT expenditures at institutions with less than 75% centralization of IT expenditures</td>
</tr>
<tr>
<td>67%</td>
<td>Percentage of institutions with less than 75% centralization of IT staff</td>
</tr>
<tr>
<td>51%</td>
<td>Distributed IT FTEs as a percentage of total institutional IT staff FTEs at institutions with less than 75% centralization of IT staff</td>
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</tbody>
</table>

**EDUCATIONAL TECHNOLOGY SERVICES**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>35</td>
<td>Student FTEs per lab/cluster workstation provided by central IT</td>
</tr>
<tr>
<td>102</td>
<td>Student FTEs per virtual lab/cluster workstation provided by central IT</td>
</tr>
<tr>
<td>912</td>
<td>Student FTEs per kiosk workstation provided by central IT</td>
</tr>
<tr>
<td>358</td>
<td>Student FTEs per laptop/tablet provided by central IT for checkout or loan</td>
</tr>
<tr>
<td>96%</td>
<td>Institutions with collaborative spaces</td>
</tr>
<tr>
<td>87%</td>
<td>Institutions with team-based classrooms</td>
</tr>
<tr>
<td>49%</td>
<td>Institutions with makerspaces</td>
</tr>
</tbody>
</table>

**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 achieved e-learning practices:**
- E-learning technology delivery systems considered mission critical (93%)
- Highly reliable e-learning technology delivery systems (91%)
- Most e-learning technology services supported through a centralized system (88%)

**Most commonly deployed e-learning technologies:**
- Full-function online learning delivery system (97%)
- Real-time web- or videoconferencing online learning environment (95%)
- Student evaluation of teaching effectiveness (94%)

**Most commonly deployed student success technologies:**
- Degree audit (95%)
- Credit transfer/articulation system (83%)
- Advising center management (75%)

**Classroom technologies most likely to be deployed soon:**
- Wireless projection (37%)
- Remote monitoring for technical support (14%)
- Interactive monitoring (e.g., SMART Podiums) (13%)

**INFORMATION SECURITY**

<table>
<thead>
<tr>
<th>Percent</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>63%</td>
<td>Percentage of institutions with a dedicated person whose primary responsibility is information security</td>
</tr>
<tr>
<td>85%</td>
<td>Institutions that have conducted any sort of IT security risk assessment</td>
</tr>
<tr>
<td>32%</td>
<td>Institutions that have conducted an IT security risk assessment of cloud service or third-party providers</td>
</tr>
</tbody>
</table>

**Most commonly achieved information security practices:**
- Acceptable use policy defining the misuse of institutional IT resources and data (92%)
- Relationships with local law enforcement authorities (90%)
- Individual with institution-wide information security responsibility and authority written in their job description (89%)
- Participation in local or national security groups (89%)

**Most commonly deployed information security systems and technologies:**
- Malware protection (96%)
- Secure remote access (95%)
- Secure wireless access (93%)

<table>
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<tbody>
<tr>
<td>91%</td>
<td>Institutions that are members of an authentication federation (e.g., InCommon)</td>
</tr>
<tr>
<td>78%</td>
<td>Institutions using multifactor authentication</td>
</tr>
</tbody>
</table>

**INFORMATION SYSTEMS AND APPLICATIONS**

**Systems most commonly vendor managed (SaaS):**
- E-mail: student (70%)
- E-mail: faculty/staff (44%)
- Learning management (44%)

**Systems most likely to be replaced in the next three years:**
- Customer relationship management (CRM) (31%)
- Human resources information (28%)
- Advancement/fundraising (22%)

**Systems most commonly mobile friendly:**
- E-mail: student (64%)
- E-mail: faculty/staff (63%)
- Learning management (58%)

* Sample size of fewer than 15 institutions