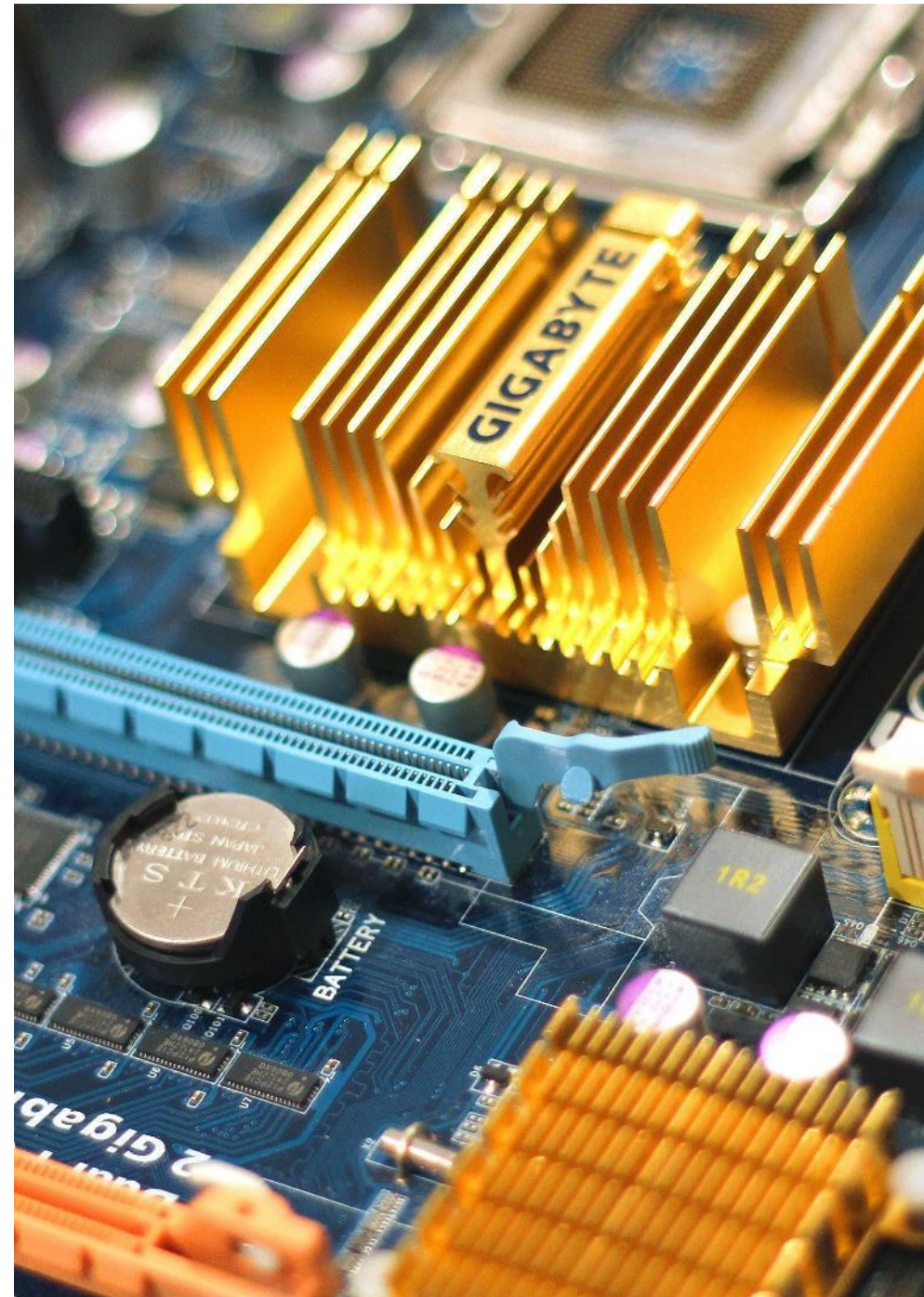


BAKER TILLY AND ACUA WEBINAR

IT risk assessment – a practical holistic approach



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INTRODUCTIONS

Today's webinar moderator



Amy Hughes

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INTRODUCTIONS

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INTRODUCTIONS

Today's speakers



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LEARNING OBJECTIVES

After today's webinar,
you will be able to:

- Understand the current information technology landscape and key trends in higher education
- Identify key risk areas impacting the confidentiality, integrity, and availability of institutional information/data and systems
- Apply methods for conducting IT risk assessments and evaluating the effectiveness of IT risk management activities



Purposes

IT audit

- Internal Audit driven and focused
- Create IT audit universe
- Identify IT audit projects

IT management

- IT management driven and focused
- Identify blind spots for regulatory and control gaps
- Determine resource allocations
- Guide project decisions

IT risk management

- Enterprise IT risk driven and focused
- IA and IT partner together
- Best of both worlds

POLLING QUESTION #1

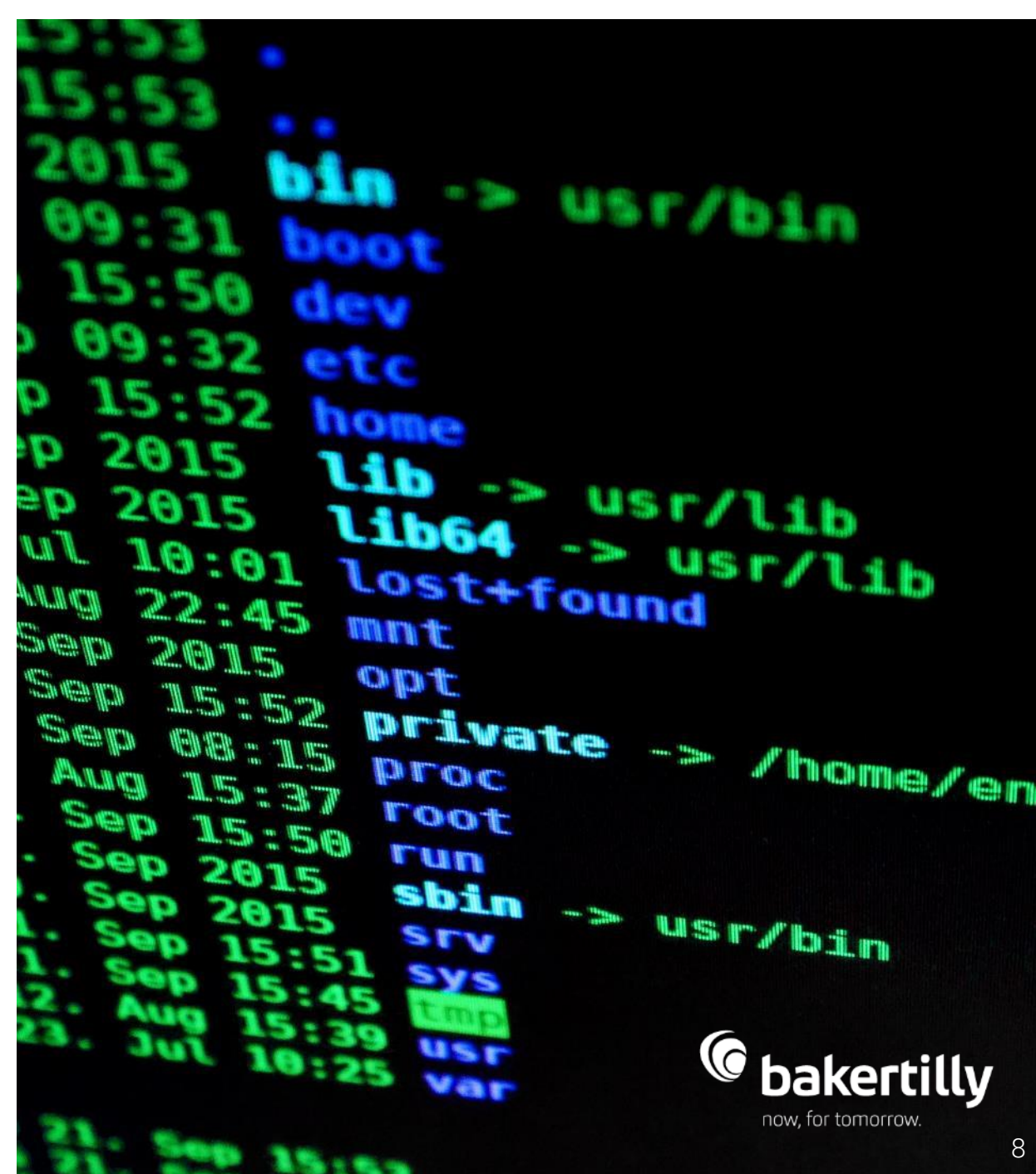
What do you believe is the top IT risk facing your institution?

- A. Data or system loss
- B. Criminal hackers attacking
- C. Trusted insiders acting against the institution
- D. Do not know or other



Common challenges, trends

- ✓ Distributed IT
- ✓ Academic, research, administrative computing
- ✓ Data classification and flows
- ✓ Cybersecurity
- ✓ Myriad regulatory requirements
- ✓ Unique business processes
- ✓ Distributed IT purchasing power
- ✓ Cloud vs. on-premises
- ✓ Awareness



POLLING QUESTION #2

Does your institution have an established IT risk assessment program?

- A. Yes
- B. No, but starting soon
- C. No
- D. Do not know or other





IT risk definition

Threats and vulnerabilities that may affect the confidentiality, integrity, availability and/or effectiveness of an institution's systems and data



IT risk areas

- Academic computing
- Application development
- Cloud/vendor systems
- Computer operations
- Data management
- Device management
- End-user support
- Funding
- Information security and privacy
- Infrastructure – network
- Infrastructure – servers/storage
- IT governance
- New enterprise systems
- People resources
- Physical/environmental controls
- Project management
- Research computing
- System availability
- Technology choice
- Vendor management

POLLING QUESTION #3

Who leads or owns the IT risk assessment program at your institution?

- A. CIO and central IT
- B. Internal Audit
- C. Enterprise risk management
- D. Do not know or other



Approach for institution-wide IT risk assessment

1

Project
planning

2

Information
gathering

3

Analysis

4

Reporting

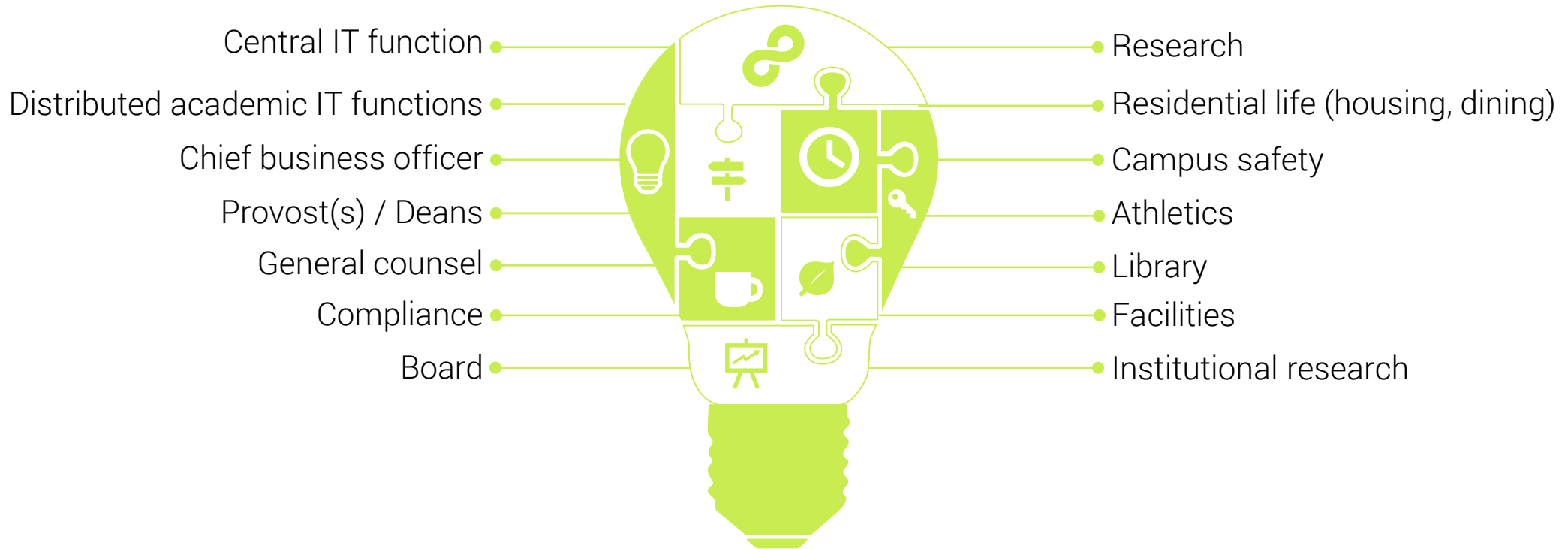
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IT audit
schedule
development

Information gathering

- ✓ Identify stakeholders
- ✓ Determine gathering methods (e.g., survey, interview)
- ✓ Determine timing

Stakeholders





Analysis

- ✓ Synthesize IT risks
- ✓ Determine inherent risk
- ✓ Identify risk management activities
- ✓ Determine residual risk

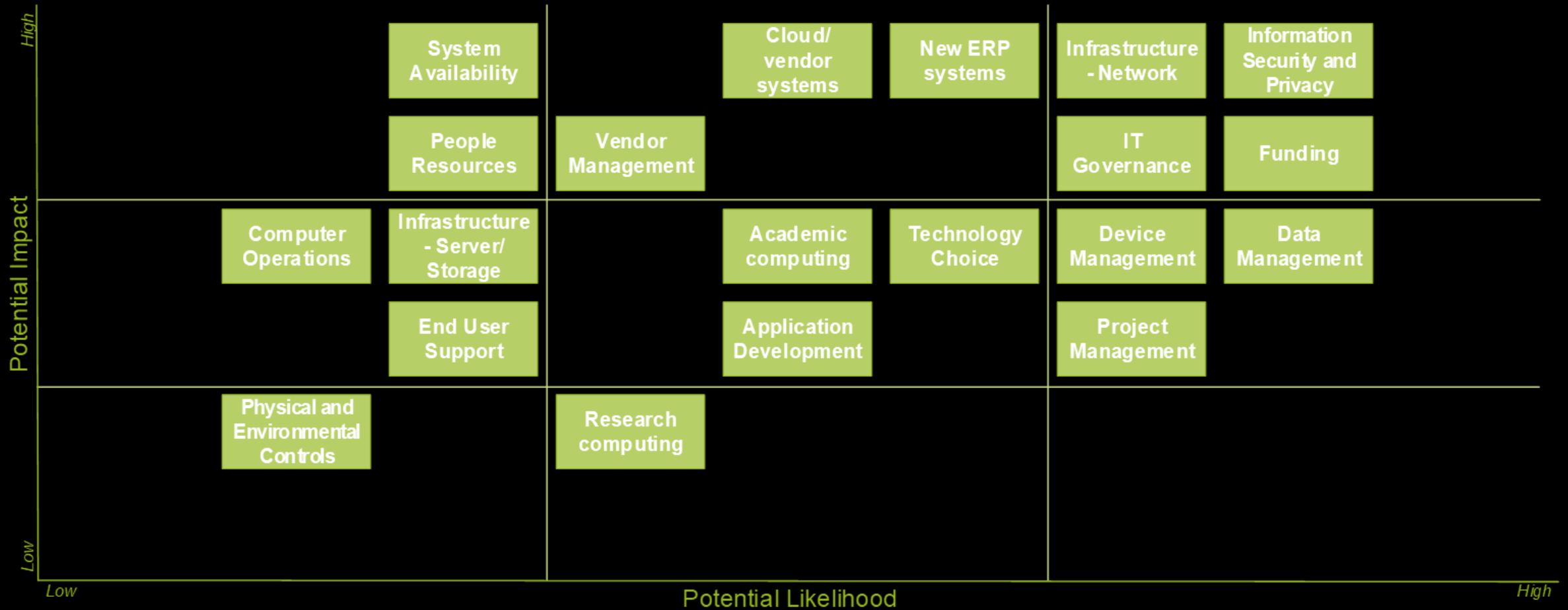
IT risk register example

IT risk area	IT risk statement	Current state	IT risk mgmt. activities
<p>Information Security and Privacy</p> <p>The policies, practices, and tools implemented on the University's systems and data to maintain confidentiality of information.</p>	<p>Users activities, of any kind (e.g., accidental, malicious), do not follow university policies or legal/regulatory requirements regarding the use of systems and data resulting in a security incident.</p>	<ul style="list-style-type: none"> – Training is strongly encouraged but optional for faculty – CISO is updating policies and procedures – Compliance requirements are increasing for higher education institutions 	<ul style="list-style-type: none"> – Security Awareness Training is mandatory for staff – Data Security Policy references responsibilities due to requirements, including FERPA – CISO sends out a monthly security topic email

Reporting

- ✓ Develop heat map
- ✓ Document risk register
- ✓ Identify control gaps and recommendations (optional)

Heat map



IT audit plan

- ✓ Identify assurance and advisory projects aligned with top risks
- ✓ Align schedule with IT plans/projects
- ✓ Map out timing of audit projects (e.g., multi-year audit calendar)

Note: Always allow for changes to the IT audit plan on at least an annual basis, as IT is a dynamic area where risks are continually changing.

Example IT projects



Audit

Incident response (FY20)

Network security (FY20)

IT governance (FY21)

Mobile device management (FY22)



Advisory

IT funding (FY20)

Data management (FY21)

System implementation (FY21)

Vendor management (FY22)

POLLING QUESTION #4

After viewing this webinar, when will your institution undertake a new or refreshed IT risk assessment?

- A. In the next 12 months
- B. In the next 13 to 24 months
- C. Never
- D. Do not know or other



THANK YOU

Additional resources

- [EDUCAUSE IT Risk Register](#)
- [ISACA COBIT 5 for Risk](#)
- [NIST Cybersecurity Framework](#)
- [NIST Special Publications 800 series](#)

THANK YOU

Connect with us



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**Join us for
our upcoming
webinar.**

