


Information Security 2018

What could go wrong?

Break-in

Data gets out

- 
- Financial loss
 - Intellectual property loss
 - Reputational damage
 - Business disruption
 - Legal action
 - Personal harm

OSU Board of Trustees

Executive & Audit Committee

Lois Brooks, Vice Provost, Information & Technology & CIO

Jon Dolan, Associate Provost, Information & Technology

Higher education threat vectors

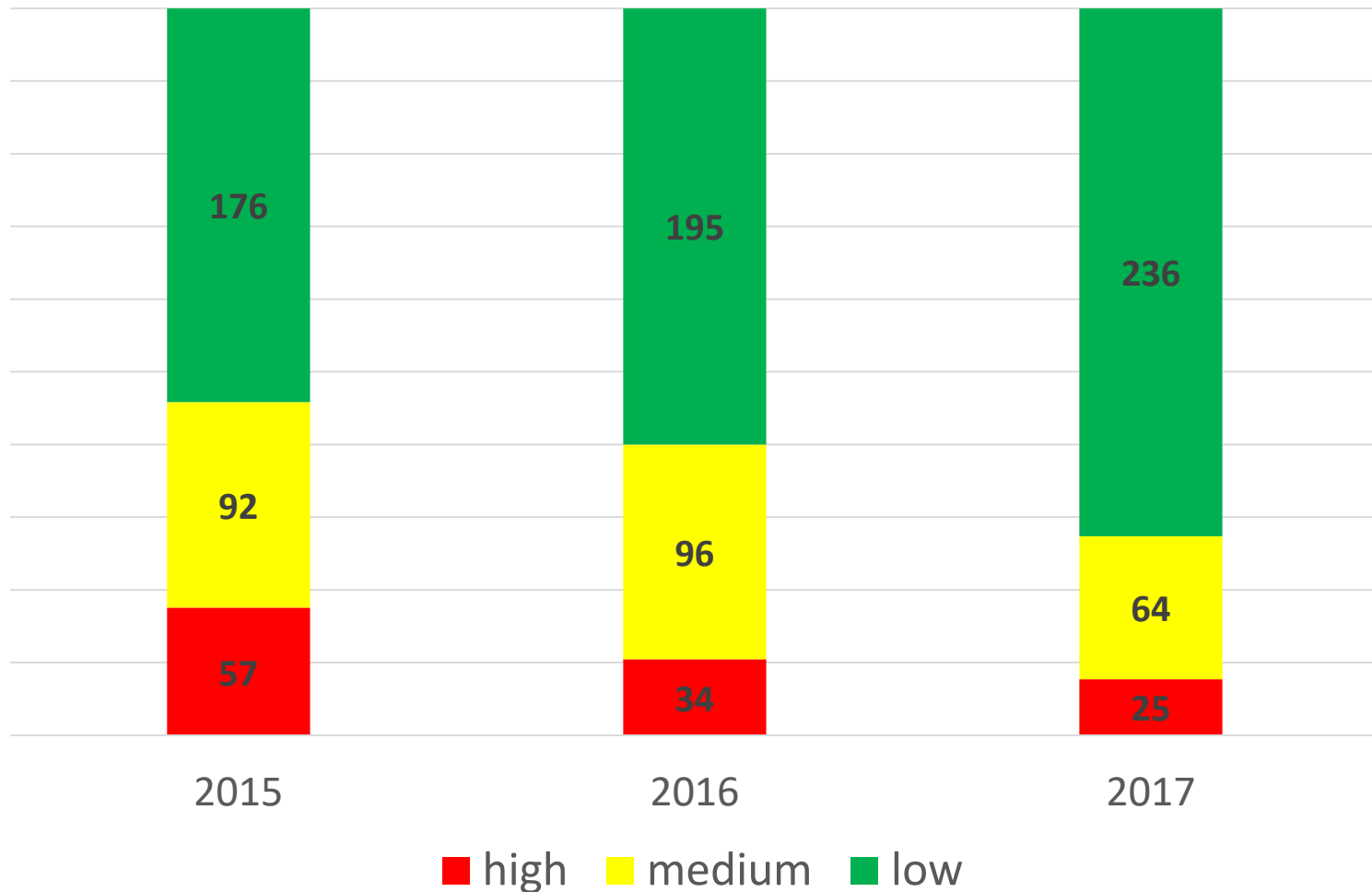
- 1) Openness - global collaboration
- 2) Phishing, social engineering, nation-state threats
- 3) Consumer devices and individual autonomy
- 4) Decentralization: Autonomous units and custom systems

OSU's security profile

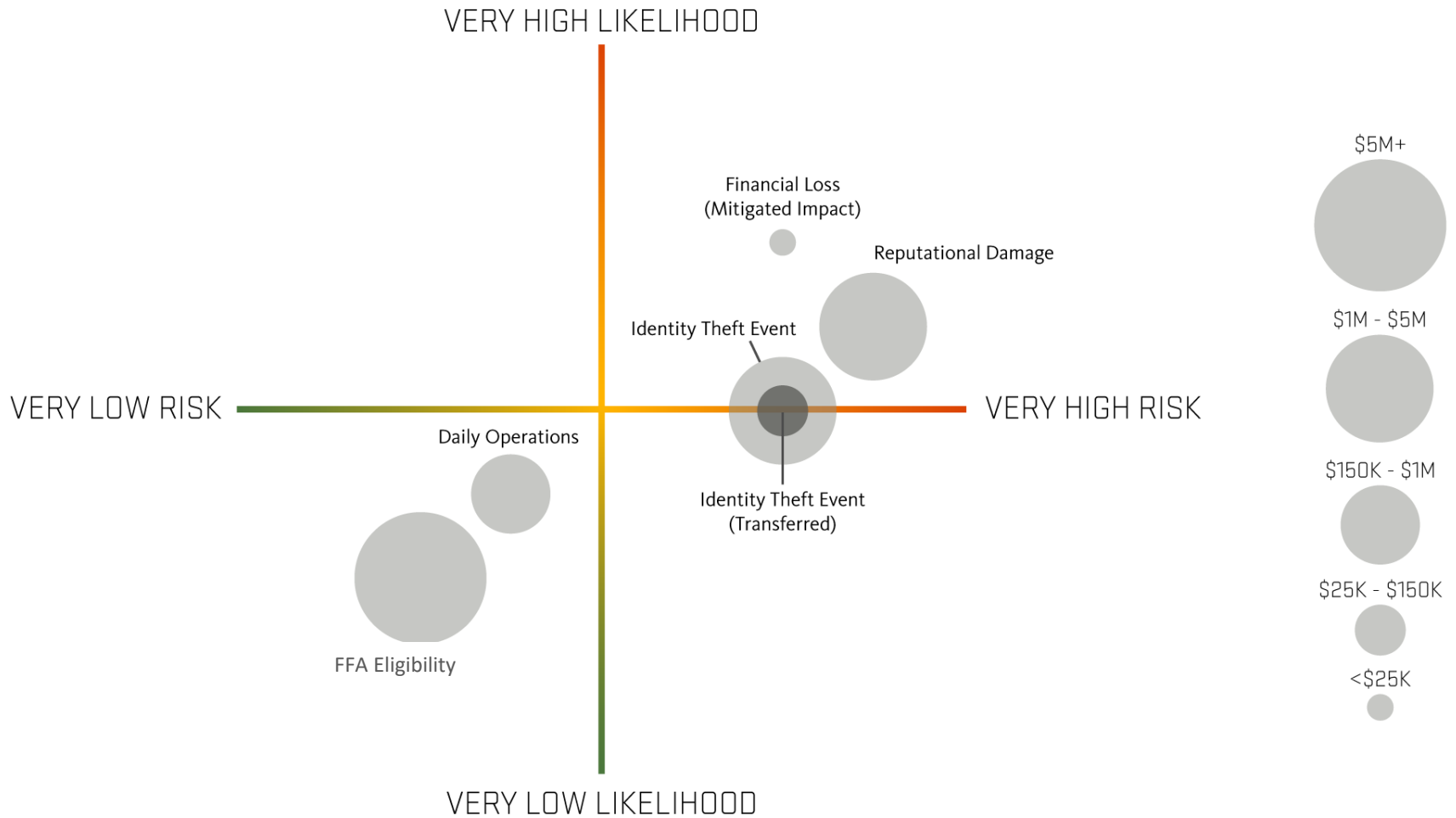
Technology area		Data sensitivity	Essential for operations	Breach impact
Administrative	Business and analytics systems	Red	Yellow	Red
Educational	Course management	Red	Yellow	Red
Employee tools	Email, calendars, file sharing	Red	Yellow	Red
Publishing	Web sites	Green	Yellow	Yellow
Technology underpinnings	Network and core systems	Red	Red	Red

Annual security assessment

Control Scores



OSU Risk Profile



Next steps for mitigation

- Extensive scanning, alerting and notification
- Awareness efforts and training
- Improved automated inventory and remediation
- Widespread use of encryption

2018 priorities

- Targeted departments (48)
 - Improved encryption
 - Increased training and awareness
 - Remove improperly stored data
- Network
 - Eliminate OSU-Access wireless network
 - Continued segmentation and improvement
- Mitigation
 - Improve discovery and follow-up
 - Tighten access levels to firewalls
- Mitigate actions identified in audits

Comparison to near peers

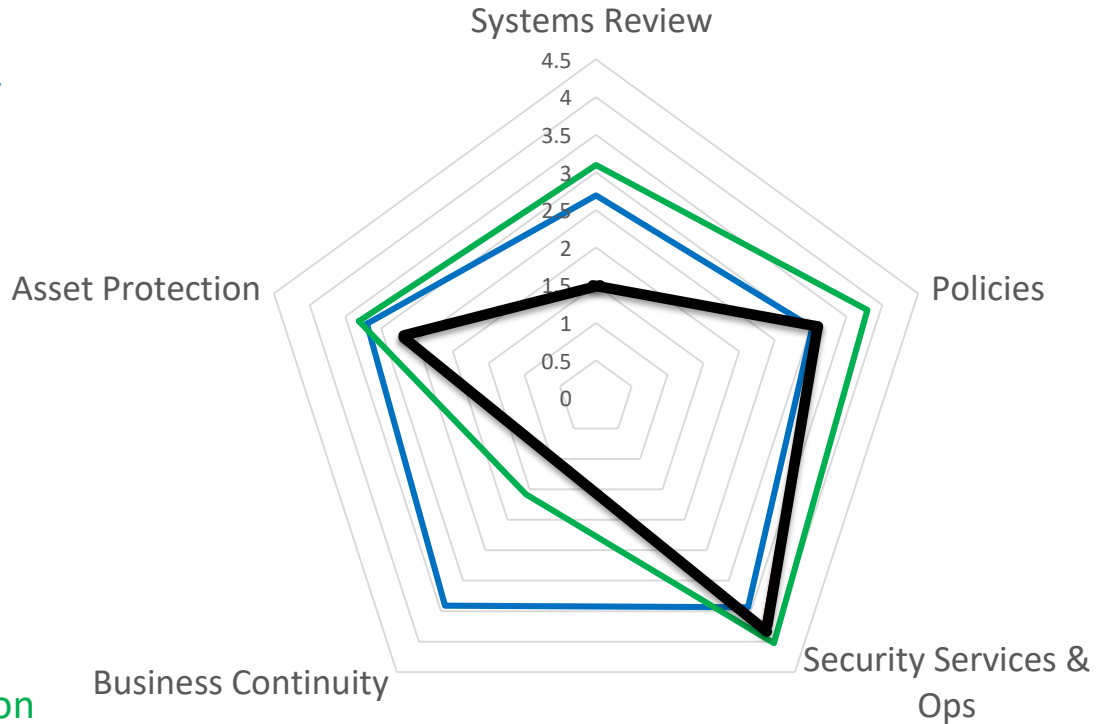
— Oregon State University — Next Tier Peers — Top Ten Land Grants

Next Tier Peers:

North Carolina State University
University of Tennessee
Washington State University
Colorado State University
Iowa State University

Top Ten Land Grants:

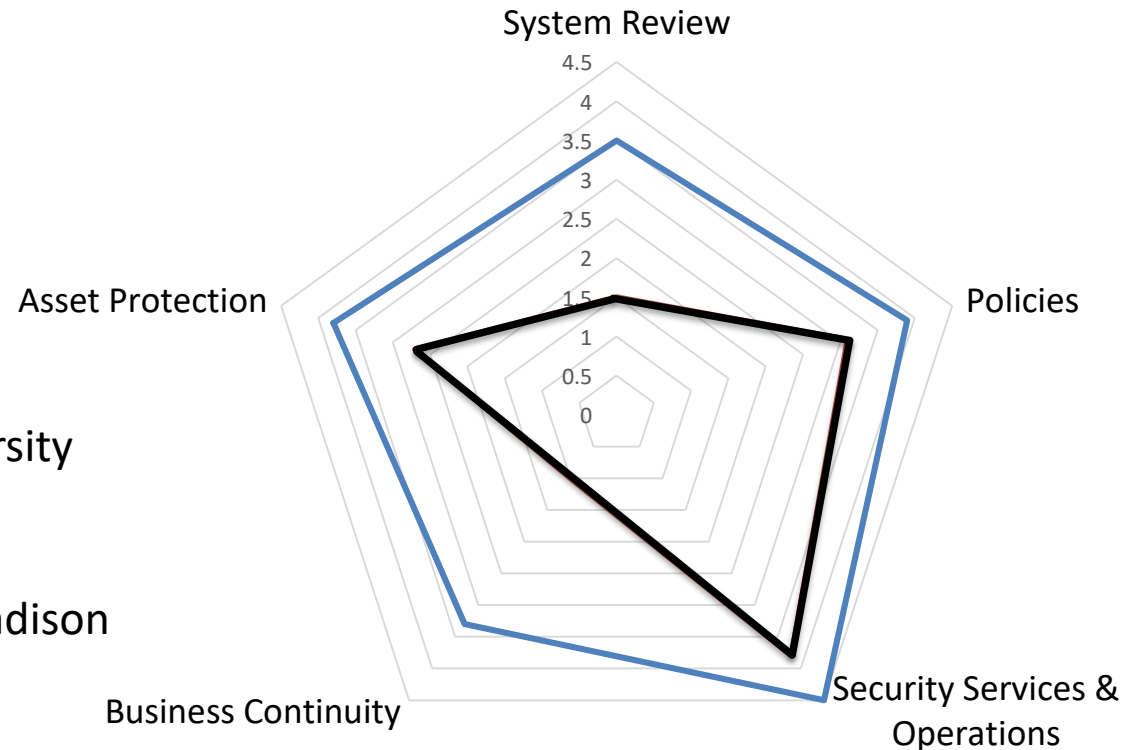
Purdue University
Ohio State University
Pennsylvania State University
University of Florida
University of Illinois at Urbana
University of Wisconsin-Madison



Comparison to leading universities

Information Security Maturity Dimension Scores

— Top IT Security Spend — Oregon State University



Arizona State University
North Carolina State University
The Ohio State University
University of Minnesota
University of Wisconsin-Madison

Disaster recovery

- Redundant network in place to key facilities
- Comparable connections to Bend and Newport underway
- Key services (authentication, directory) replicated to cloud → affects uptime for many services.
- Framework developed for investment decisions
- Cloud prototypes underway for backups