Foil F.U.D.
Using Data to Understand & Improve
Information Security & Risk Management Practices

Michael Corn • Helen Patton • Joanna Grama
Today’s Speakers:

**Joanna Grama**
Director of Cybersecurity and IT GRC Programs, EDUCAUSE

**Helen Patton**
Chief Information Security Officer, The Ohio State University

**Michael Corn**
Deputy CIO, Brandeis University
Agenda

- Introduce the EDUCAUSE Benchmarking Service Methodology
- Benchmarking at Brandeis
- Benchmarking at the Ohio State University
- Transcending Technology
- Panel Discussion
Why Benchmark?
Why Benchmark?

- Communicate the Value of IT
- Make the Case
- Calibrate Performance
- Assess Strategic Initiatives
Introducing the EDUCAUSE Benchmarking Service

Build reports on demand with customized peer groups

Index Value
4.5 Maturity
3.8 Deployment

Index Value
4.2 Maturity
4.0 Deployment

Index Value
3.8 Maturity
3.9 Deployment
Introducing the EDUCAUSE Benchmarking Service

Benchmark maturity and technology deployment
Introducing the EDUCAUSE Benchmarking Service

- Culture of Innovation: Absent/ad hoc (2.3)
- IT Governance: Repeatable (2.6)
- Information Security: Defined (2.8)
- IT Risk Management: Managed (3.0)
- Research Computing: Optimized (3.2)
- Analytics: Repeatable (3.4)
- E-learning: Defined (3.6)
- Student Success Technologies: Managed (3.7)
Benchmarking Details

Reports Available

- Culture of Innovation
- IT Governance
- Information Security
- IT Risk Management
- Research Computing
- Analytics
- E-Learning
- Student Success Technologies

Maturity Levels

1. Absent
2. Initial
3. Developing
4. Established
5. Optimized
Benchmarking at Brandeis
Information Security Maturity Matrix

5. Optimized
4. Managed
3. Defined
2. Repeatable
1. Absent/ad hoc

#EDU16
Information Security Maturity Matrix

1. Absent/ad hoc
2. Repeatable
3. Defined
4. Managed
5. Optimized
Brandeis: Benchmarking for Info Sec

- Arrived at Brandeis in Nov 2013
- No centrally managed security services
- No effective policies
- Minimal network monitoring (for security)
- Minimal use of private IP space
- No border controls (firewalls or IPS)
- No enforcement or requirement for strong passwords
- No CISO
- Good people, doing their best - lots of whack-a-mole
Brandeis: Philosophy

- Focus on operational security: implementing systemic security controls
  - Strong passwords - 1 year expiration // Passphrases - 2 year expiration
  - Endpoint patching
  - Endpoint anti-malware agents
  - Border firewalls and IPS
  - Scanning for PII (Identity Finder)
  - FDE for workstations and laptops
  - Vulnerability scanning and remediation
  - DNS blacklisting
  - Oracle Database Encryption
- Starting to address policy and compliance (security, appropriate use, PCI, HIPAA, ....)
Brandeis: Compared to our Peers

- Deployment Index Composite Score:
  - Small Peers:
    - My Institution: 4.5
    - Peergroup 1: 3.3

- Maturity Index Composite Score:
  - Excellent:
    - My Institution: 2.0
    - Peergroup 1: 3.0
  - Strong:
  - Developing:
  - Emerging:
  - Weak:

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Brandeis: Compared to our Peers

Deployment Index Composite Score

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Maturity Index Composite Score

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Brandeis: Benchmarking Guidance

- Do your results align with your strategy: revealed preferences
- Treat report as a quick and easy external review

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Benchmarking at
The Ohio State University
IT Risk Management Maturity Matrix

5. Optimized
4. Managed
3. Defined
2. Repeatable
1. Absent/ad hoc
IT Risk Management Maturity Matrix

5. Optimized
4. Managed
3. Defined
2. Repeatable
1. Absent/ad hoc
Findings at OSU

IT Risk Management

- 4.3 Maturity
- Low Score: Administration Acceptance 3.0
Findings at OSU

Information Security - Maturity

- 2.9 Maturity
- Low Score: Business Continuity 1.5
Findings at OSU

Information Security - Deployment

- 3.6 Deployment
- Low Score: System Review 1.5
Technology Transcendence
Benchmarking Transcends Technology

- It’s easy to get lost in the weeds, benchmarking can help get you out of it
- Sucked into a black hole or cat herding
- Ignore the “T” in technology
- Can the deployment index be used to help figure out budgeting decisions?
- Cloud v. on-prem deployment and how that fits into organizational & budgeting decisions?
- Do we need to talk about privacy issues too?
- What does the future look like?
Panel Discussion
Tools for Better Decision Making

Campus leaders use EDUCAUSE assessment and benchmarking services to plan for and manage IT service delivery, financials, security and risk, technology-supported learning, and digital initiatives.

**ASSESSMENT**

- **Learning Space Rating System**
  Measure how classroom design supports and enables active learning

- **Information Security Program Assessment Tool**
  Evaluate the maturity of your information security program

- **IT Risk Register**
  Identify common risks to support your strategic IT risk-management program

**BENCHMARKING**

- **Technology Research in the Academic Community**
  Track student and faculty technology needs and experiences

- **Core Data Service**
  Compare peer and aspirant data for IT financials, staffing, and services

- **Benchmarking Service**
  Measure technical and cultural capability for digital initiatives like student success
Passionate about Security?

So You Wanna Be a CISO?
Understanding the Skills, Pathways, and Professional Development to Get You There

Today! | 4:30pm - 5:20pm |
Meeting Room 210A/B, Level Two
Help Us Improve and Grow

Thank you for participating in today’s session.

We’re very interested in your feedback. Please take a minute to fill out the session evaluation found within the conference mobile app, or the online agenda.
Questions for Panel *(this slide will NOT be shared)*

How do you use benchmarks? Where are your struggles?
How do you use reports like the EDUCAUSE benchmarking reports and its results in a resource constrained environment?
How do you make a decision about what is your desired level of maturity, overall and in a particular area (like operations)? Perhaps a lower level of maturity in a given area is OK? And, how do you determine which areas in which to increase maturity?
How do you address maturity issues in distributed environments? What pieces do you own or not own? Planned or opportunistic? (Business continuity as the example)
Difficulties inherent in risk management generally--who owns it.
Use the deployment index list to drive pragmatic budgeting