

What are the challenges in higher education?

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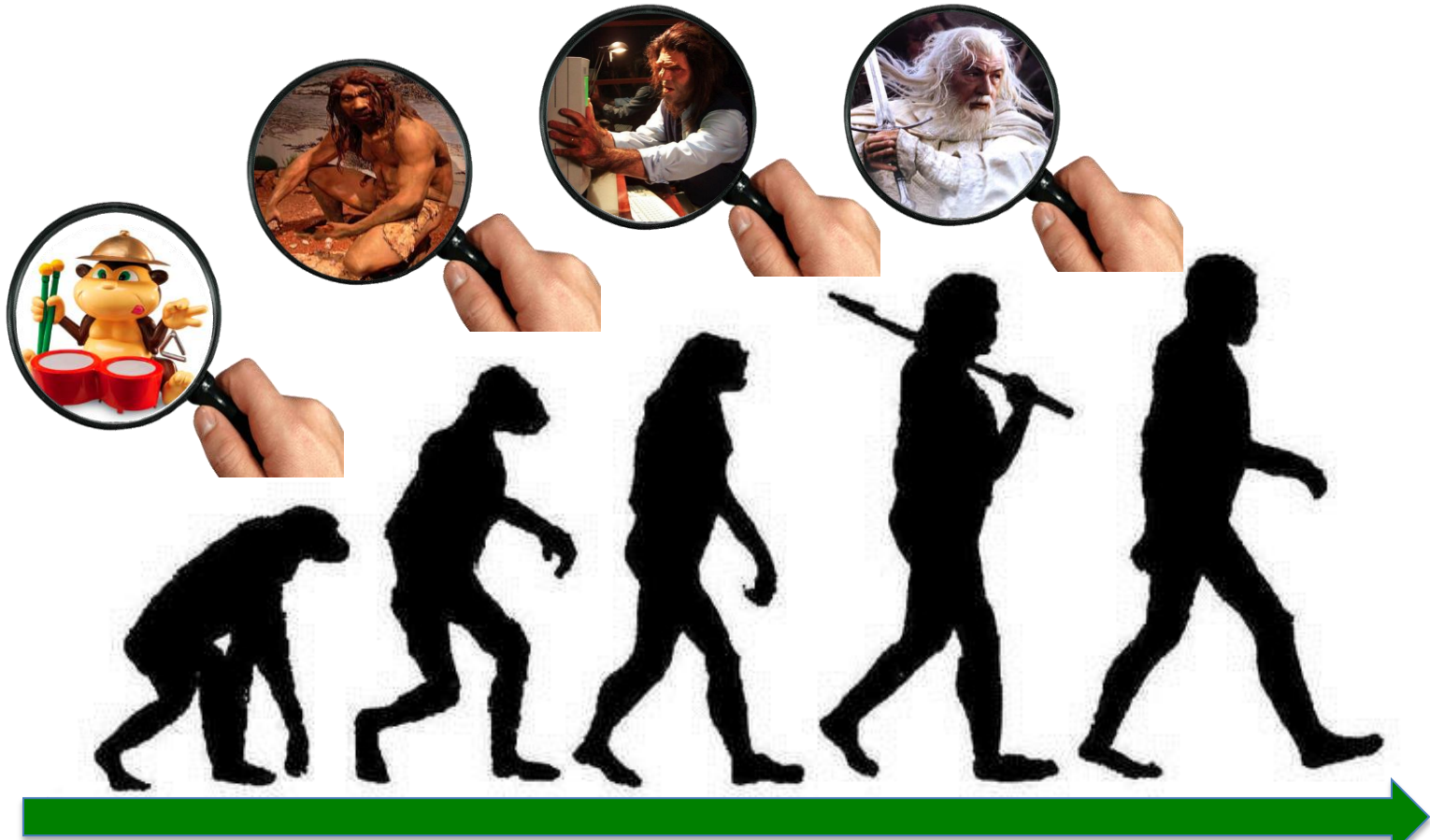
Top 5 CLMs



- 1) <Share yours here>
- 2) Telling the CISO you'll need an additional \$XXX,XXX dollars to do it right
- 3) One-dimensional education
- 4) Skimming over seemingly benign Snort alerts
- 5) Showing developers this picture....



Security Awareness Evolution



What is security Everything is evil



University Context



- Tier 1 research institution
- 4 Class B networks
- Rich data
- Distributed development
- Mobile app downloaded in 78 countries
- PCI-DSS, HIPAA, FERPA, 45 CFR Part 46, FISMA



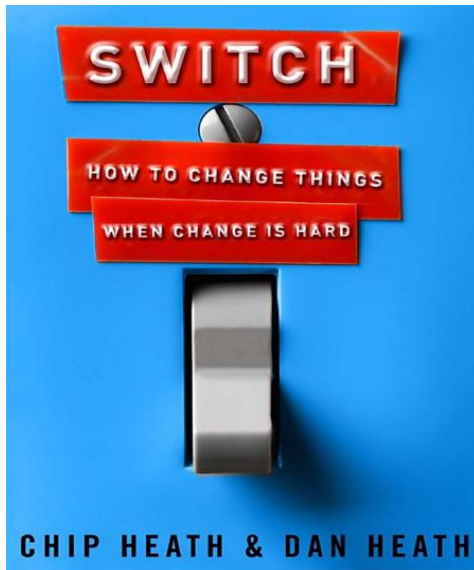
Measuring Maturity



- **Software Assurance Maturity Model (OpenSAMM)**
- **Building Security In Maturity Model (BSIMM)**



Change Components



- Understand change management
- Alter situations to modify behavior
- Work with what you have



An Example Applied

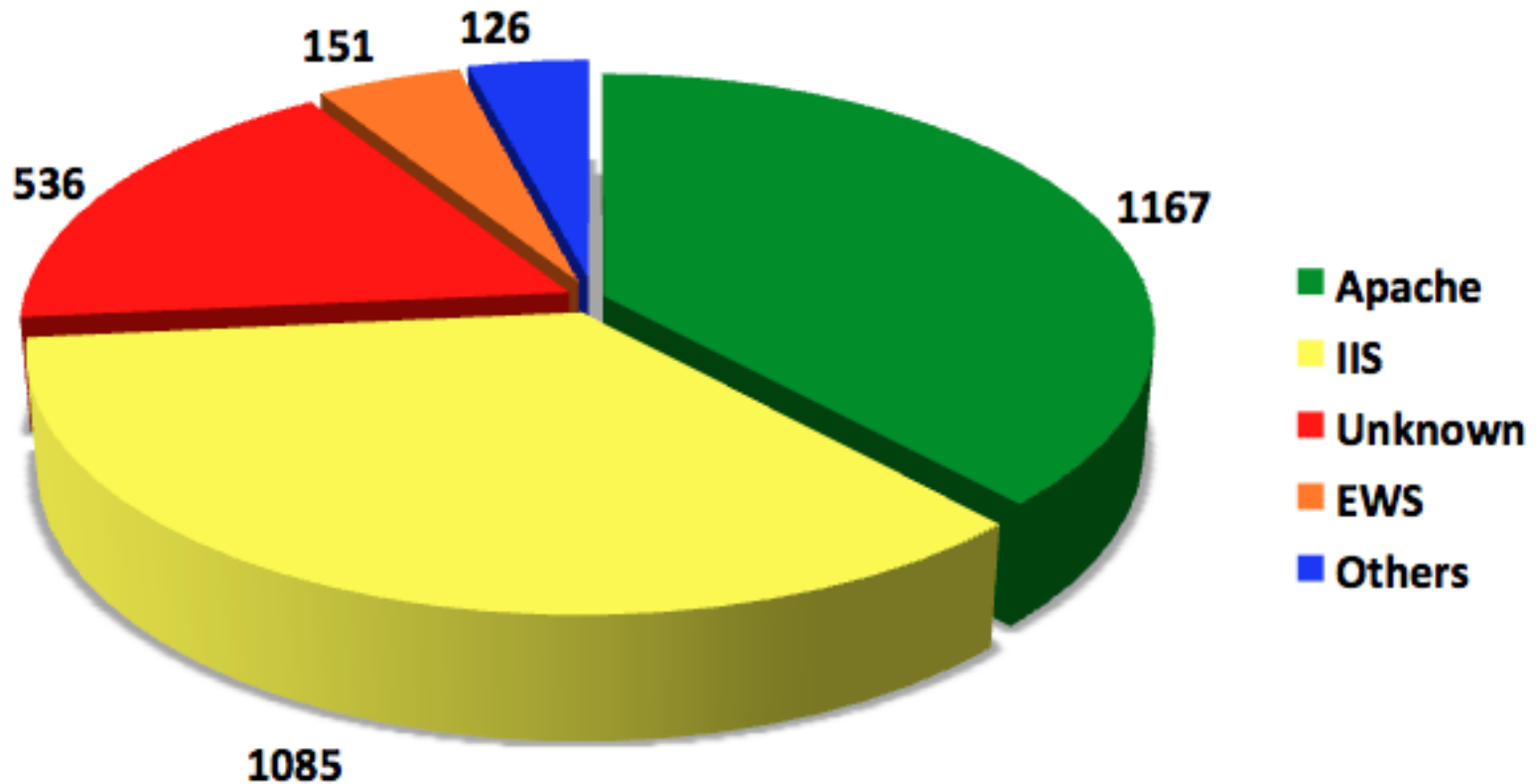


- **BSIMM - INTELLIGENCE: Attack Models (AM1.2):** “Create a data classification scheme and inventory.”
- **O.SAMM – GOVERNANCE: Strategy and Metrics (SM 2A):** “Classify data and applications based on business risk”



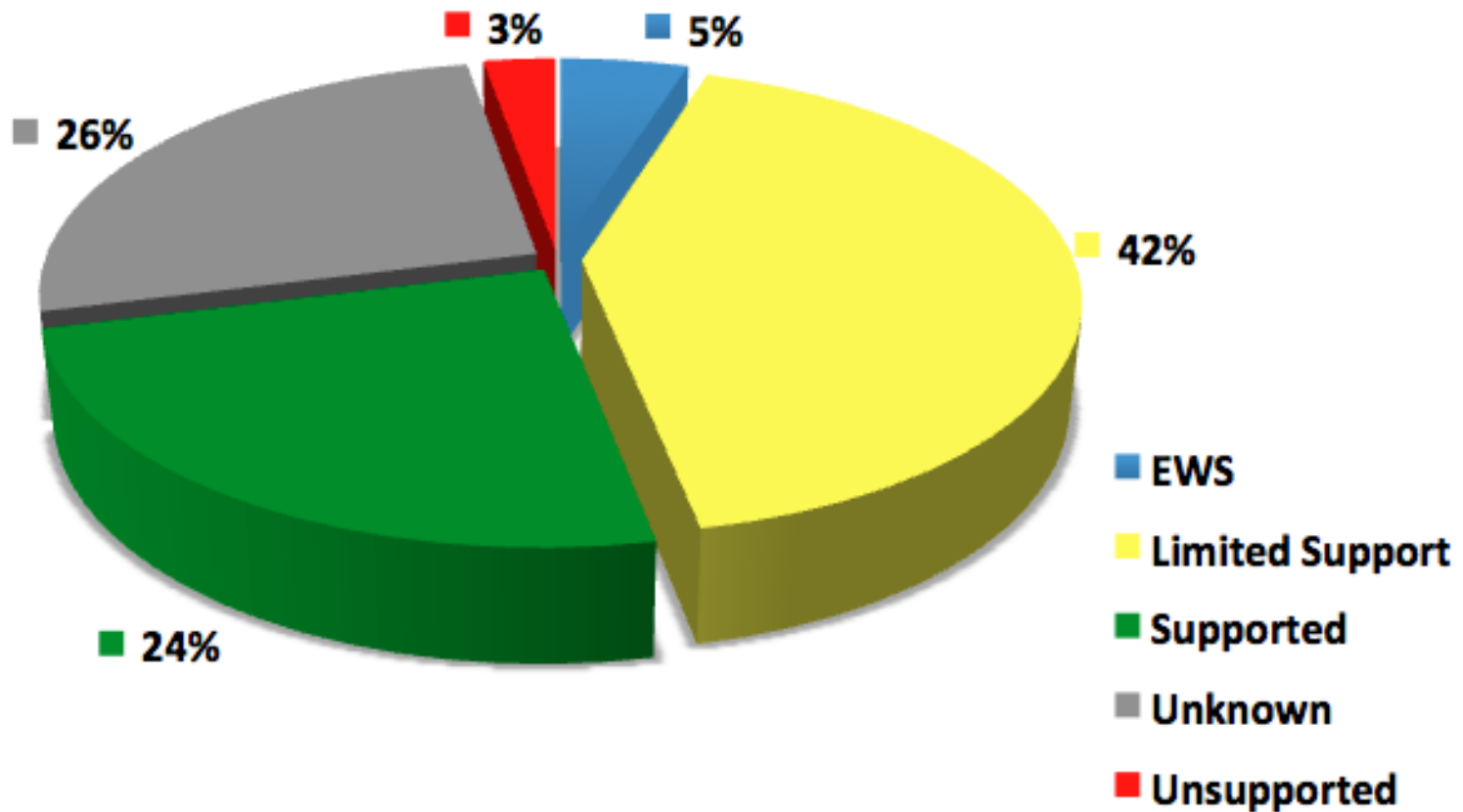
Toys: What do you have?

Web Server Numbers by Type (3065 Total)



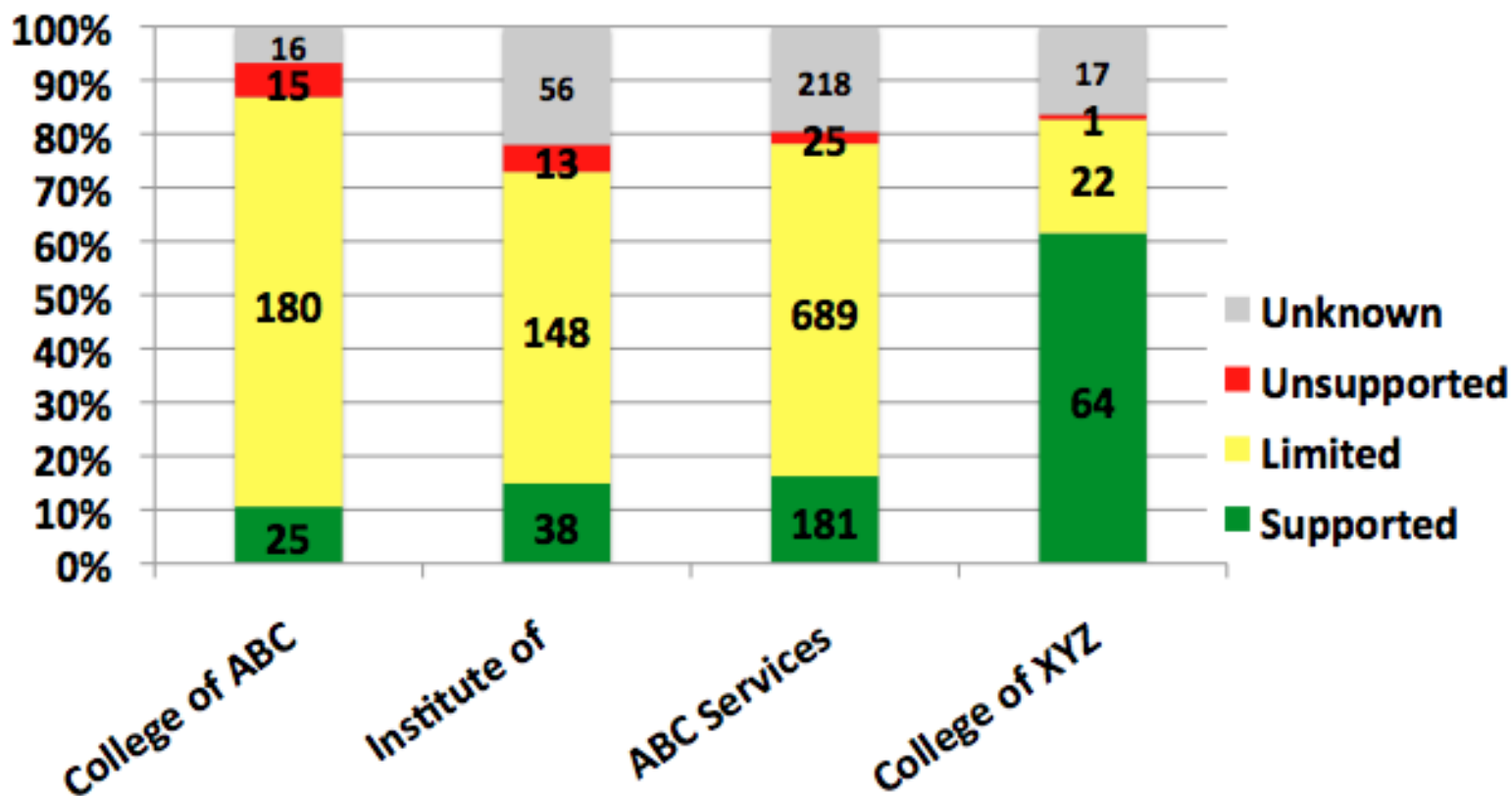
Model: What do we do with it?

Web Servers and Support Structure



Change: What is your responsibility?

College/Department Web Server Data



A Bit About the Speaker and Contact Info



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