

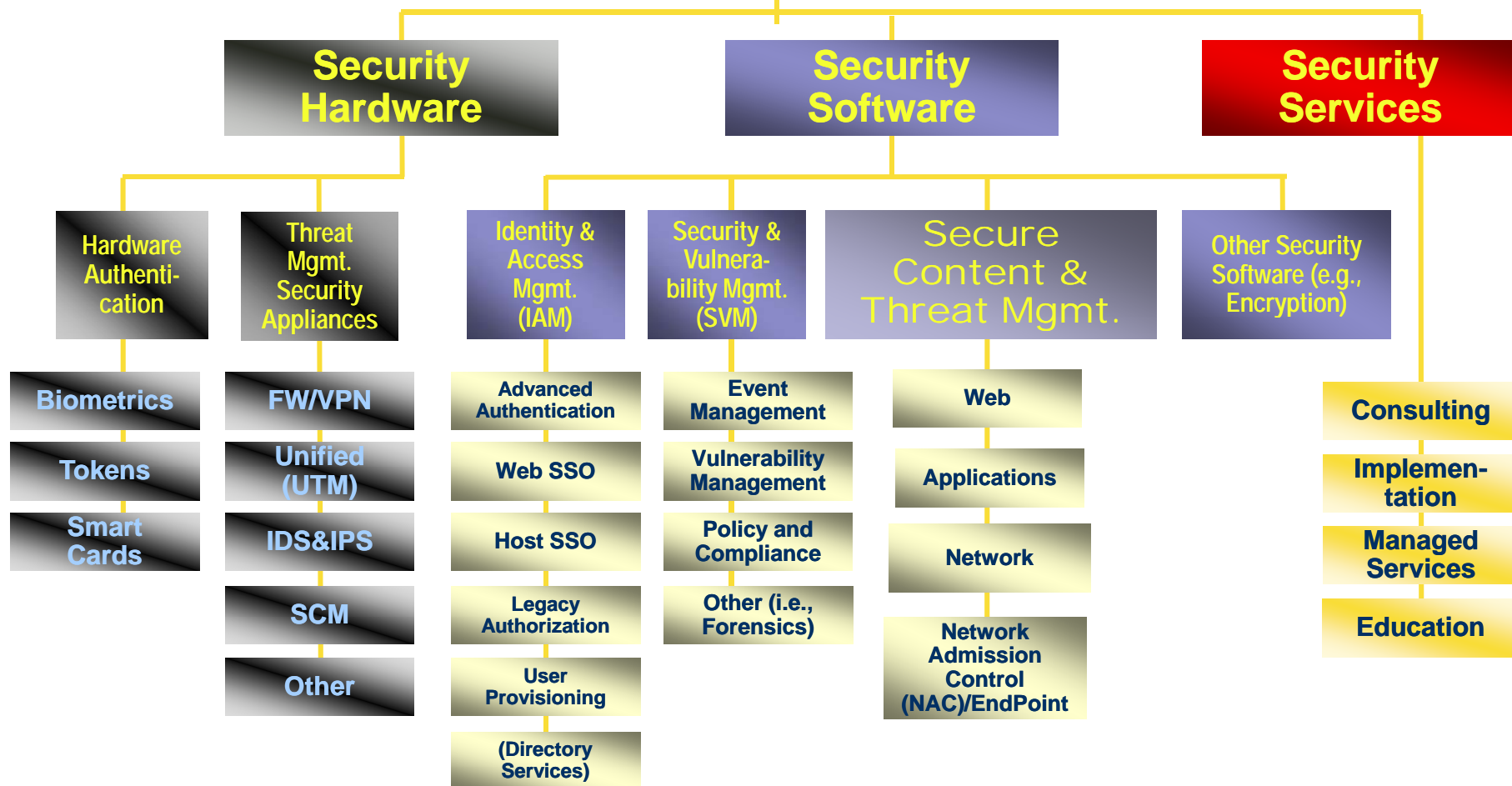
Enterprise Security 2008

Information Security & Business Continuity

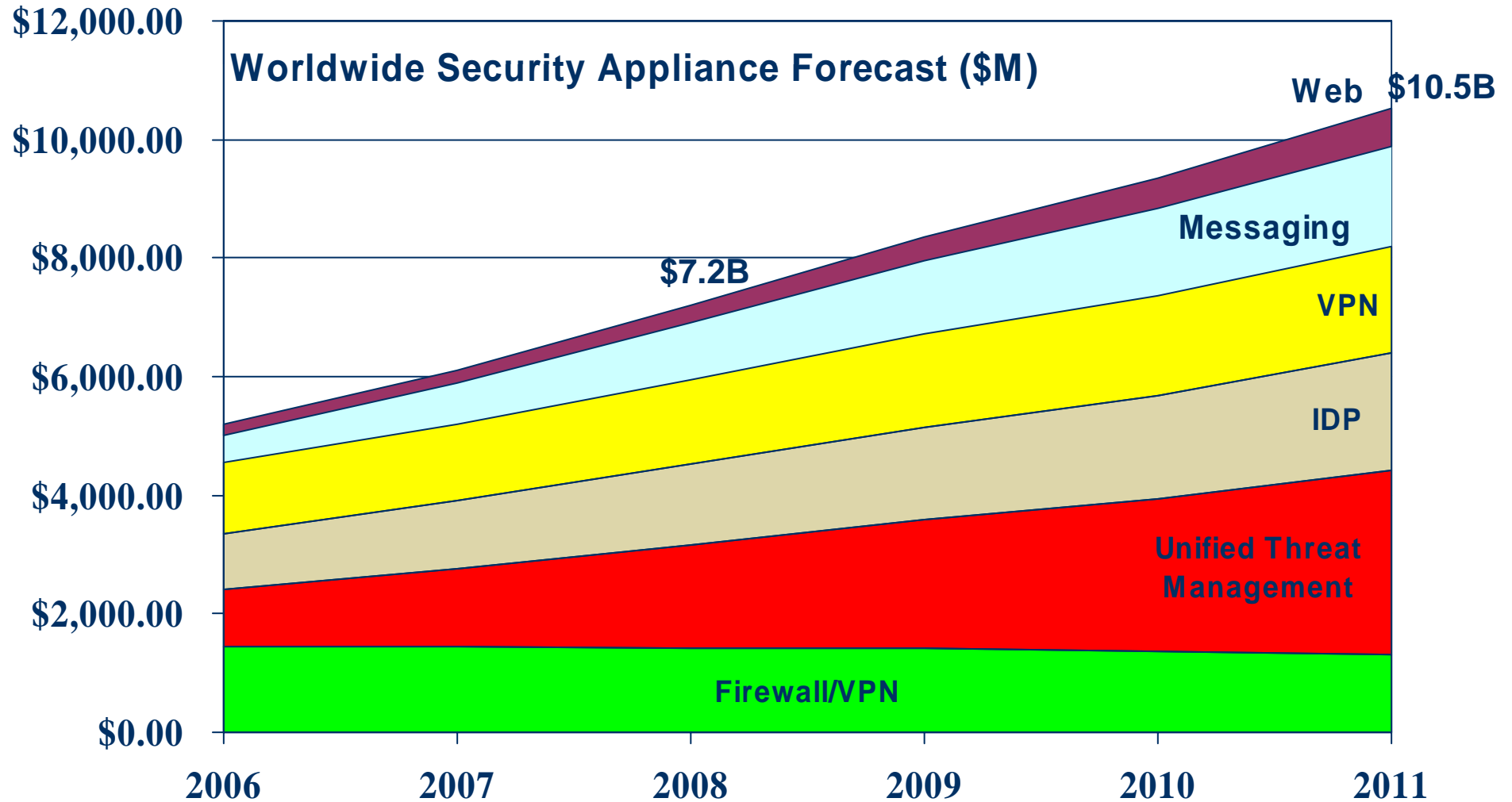
Chia-Wei Yen

June 2008

Security Products & Services

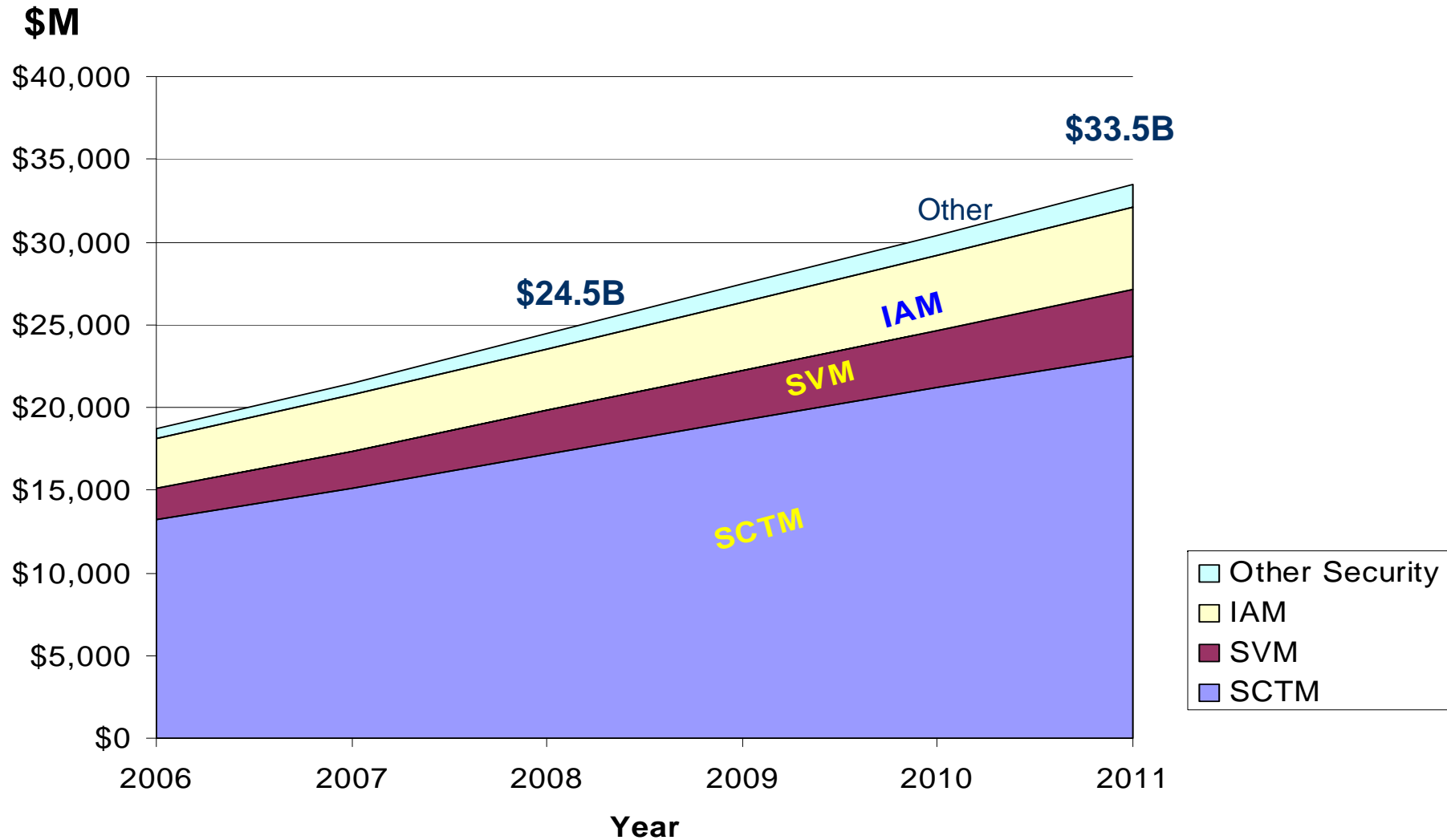


Security Appliance Forecast

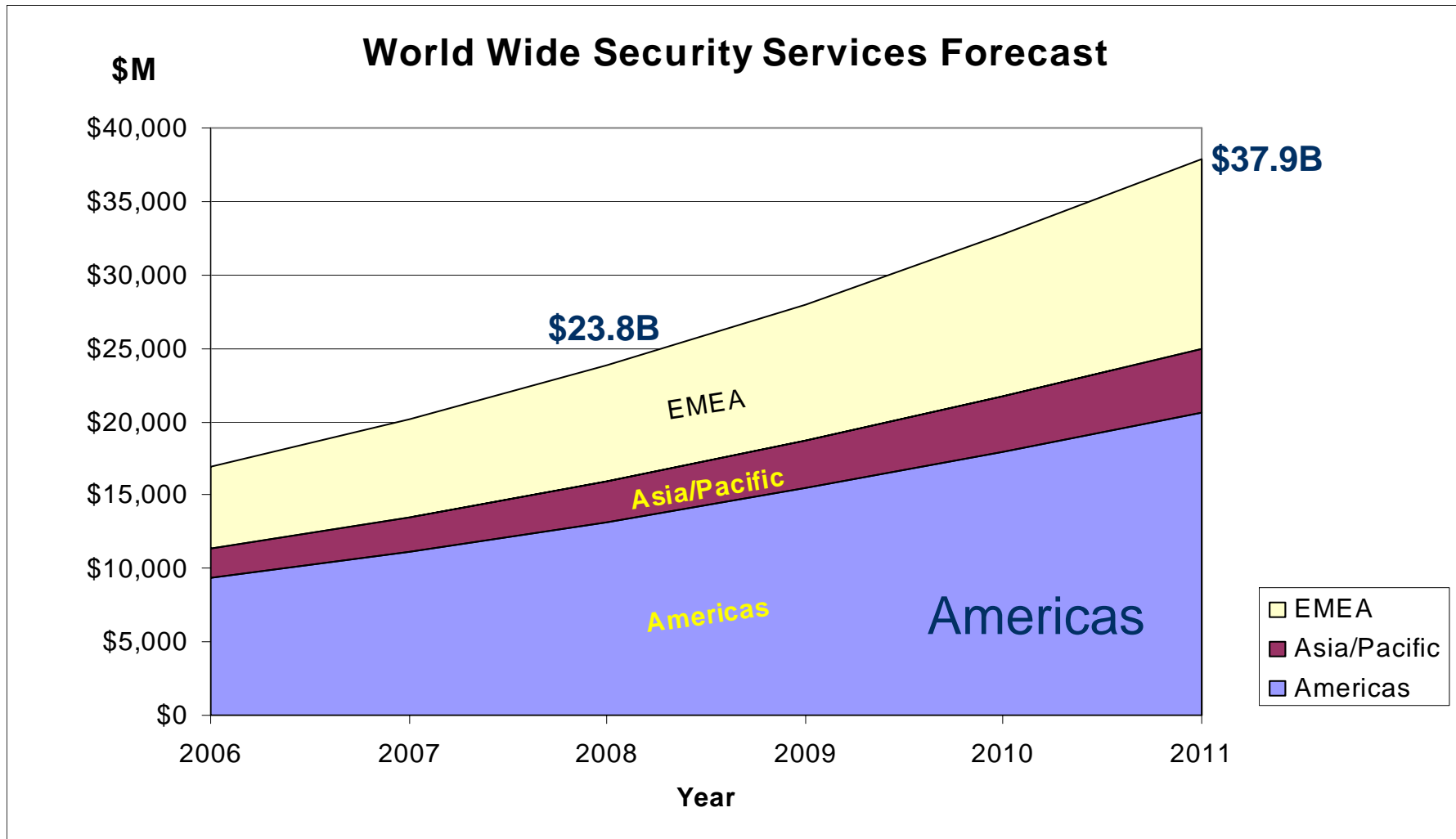


Security Software Forecast

World Wide Security Software Forecast

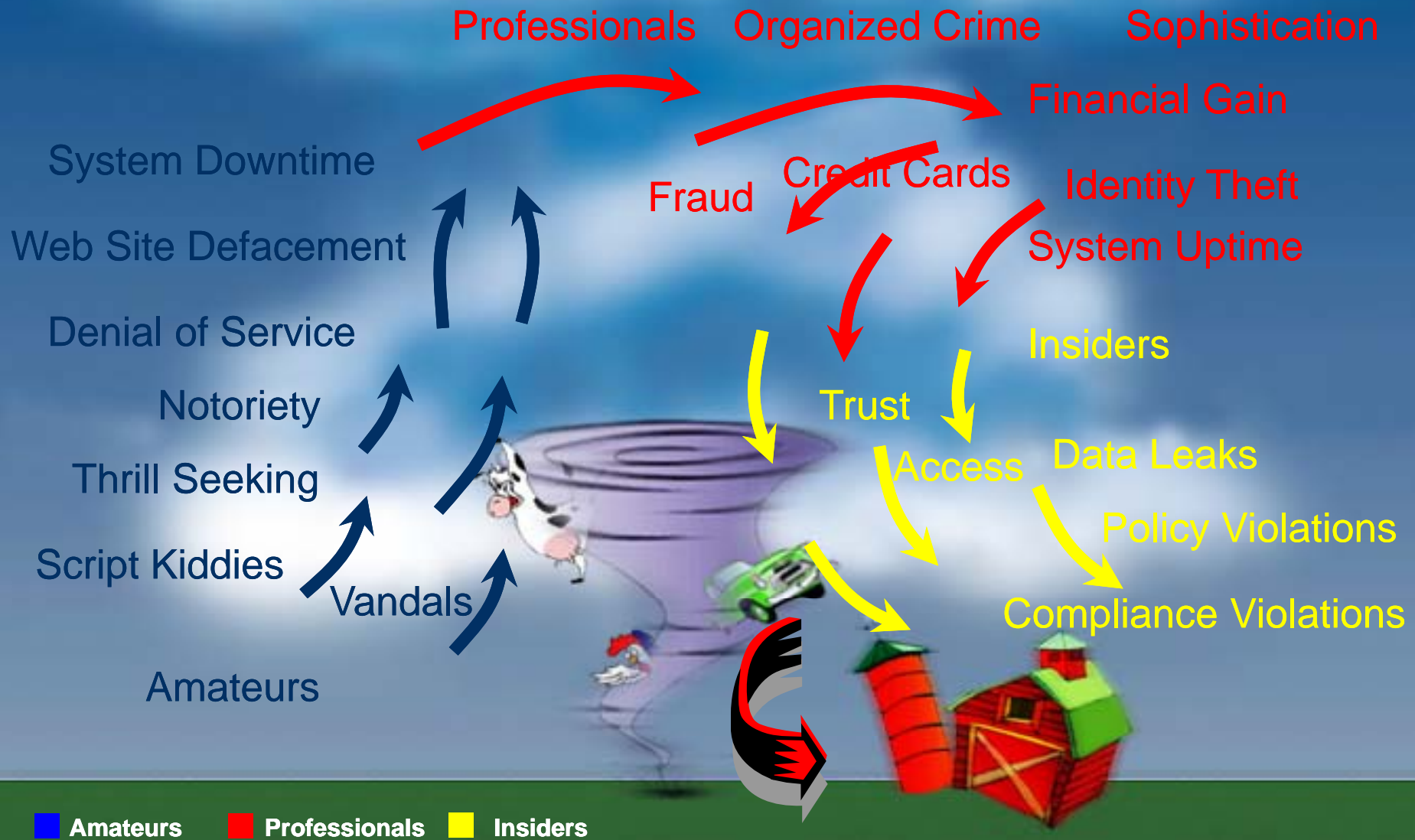


Security Services Forecast



Factors Driving Security In 2008?

Players in the Threat Ecosystem



Motivation No Longer for Fun and Notoriety!

Money \$\$ Now Driving Attacks by:

- Highly Skilled Individuals
- Organized Crime
- Industrial Espionage

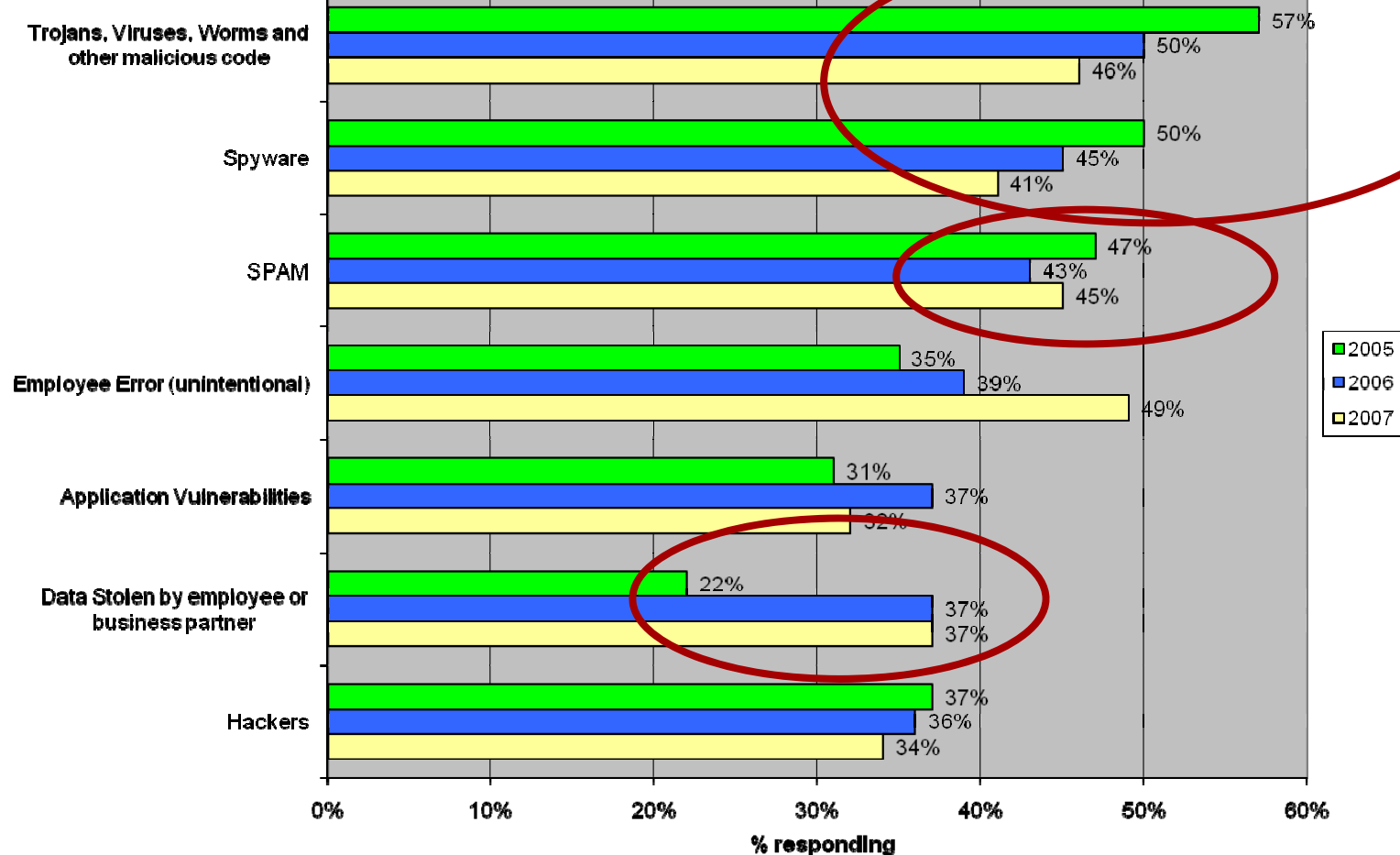
Traditional Security Threats Continue:

- Hackers
- Malware (Trojans, Viruses, Worms etc.)
- Spam

Current Enterprise Threat Environment

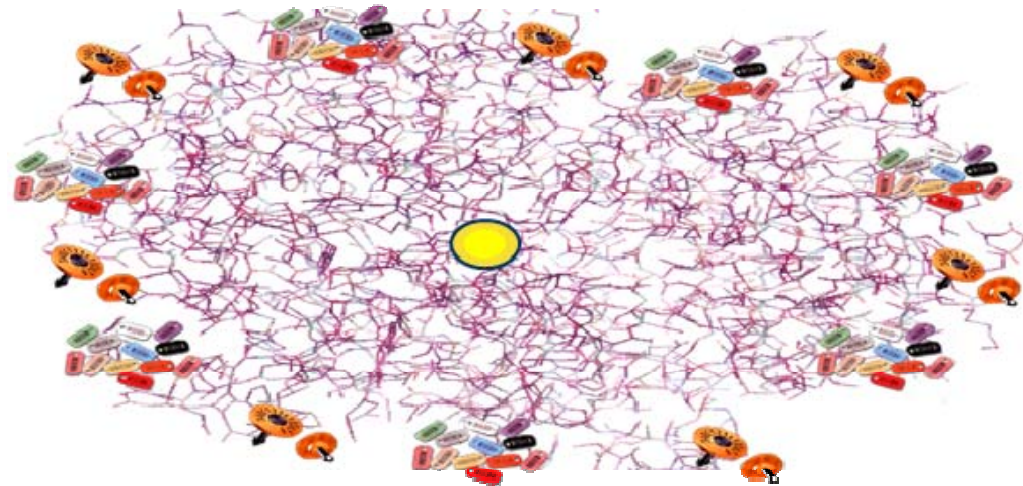
How would you rate the items below on the threat each poses to your company's enterprise network security? (Scale: 5 = significant threat; 1 = no threat)

Threats To The Enterprise



Growing Enterprise Threats Include:

- Thefts of Private and Confidential Information
- Insider Threats
- Phishing
- Botnets



Personal Data Thefts On The Rise

Motives

- ✓ Financial gain is the #1 driving force behind attacks today

The Threat

- ✓ Increasing volume and sophistication of attacks mean there's always a new threat around the corner (key logging, etc)

Security Breaches

Ministry of Defense	Jan. 2008	Stolen: Personal Records	600,000 Recruits
Monster.com	Aug. 2007	stolen: personal records for	1.3 million resumes
TJX	Jan. 2007	stolen: credit card details for	45.7 million people
UCSF	Apr. 2007	stolen: personal data for	40,000 people
UCLA	Nov. 2006	stolen: personal data for	800,000 students
LexisNexis	Mar. 2005	stolen: consumer data for	310,000 people
Bank of America	May 2005	stolen: consumer data for	108,000 customers

Note: TJX has taken a charge in excess of \$120M

Enterprise Challenges – Personal Information Leaks

Information Leakage Occurrences are Real and Costly

- ✓ Customer records
- ✓ Intellectual Property

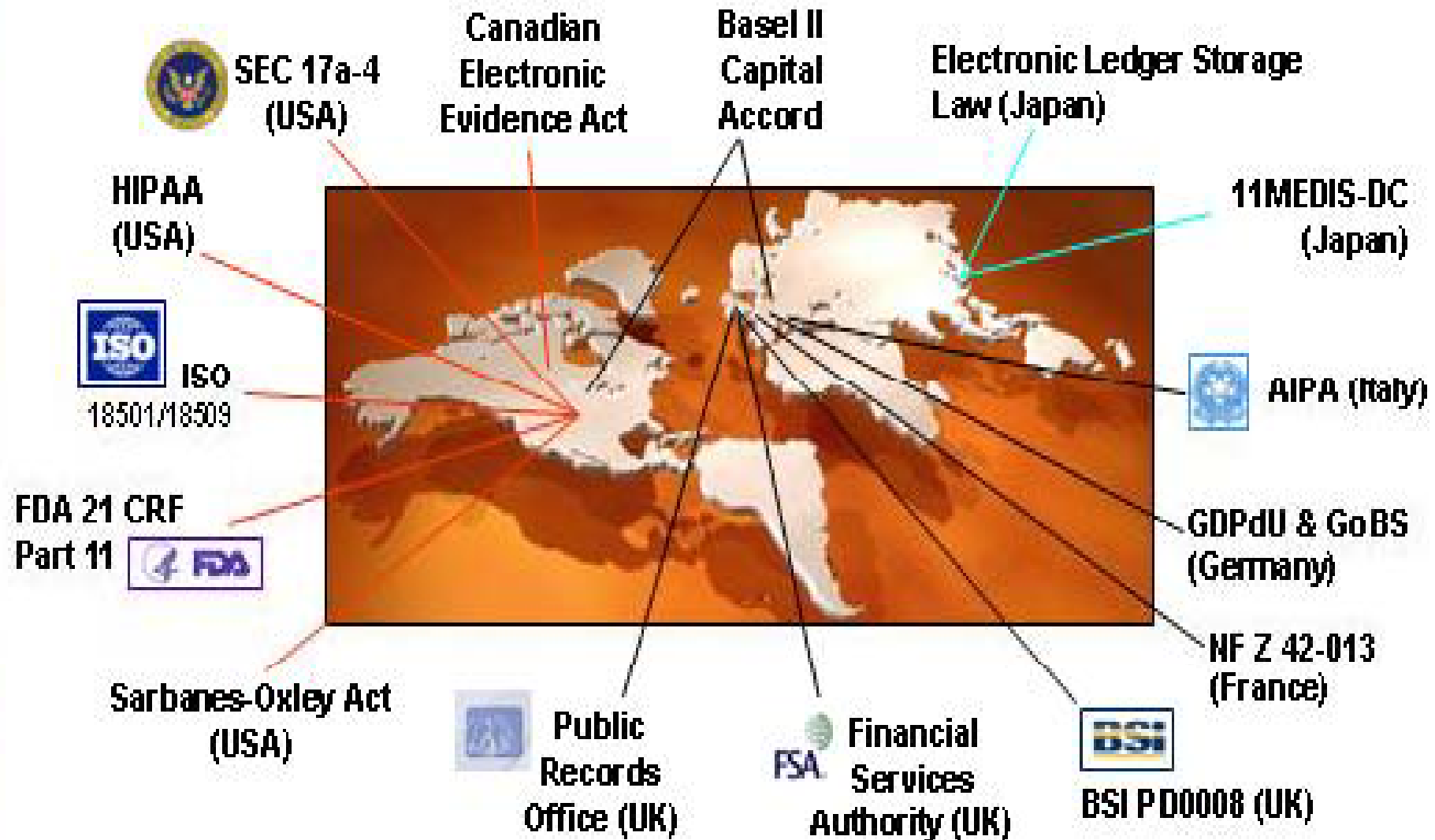
Data Lost in Transit

* HMRC – UK	Nov. 2007	Lost: Personal Data	25 million people
* ACS	Mar 2007	lost:personal data for	2.9 million people
CardSystems	June 2006	lost:credit card details for	40 million people
Bank of America	Feb 2005	lost:SS numbers for	1.2 million customers
CitiGroup	June 2005	lost:personal data for	3.9 million customers
Time Warner	May 2005	lost:SS numbers for	600,000 employees

* Her Majesty's Revenue and Customs

* Affiliated Computer Services

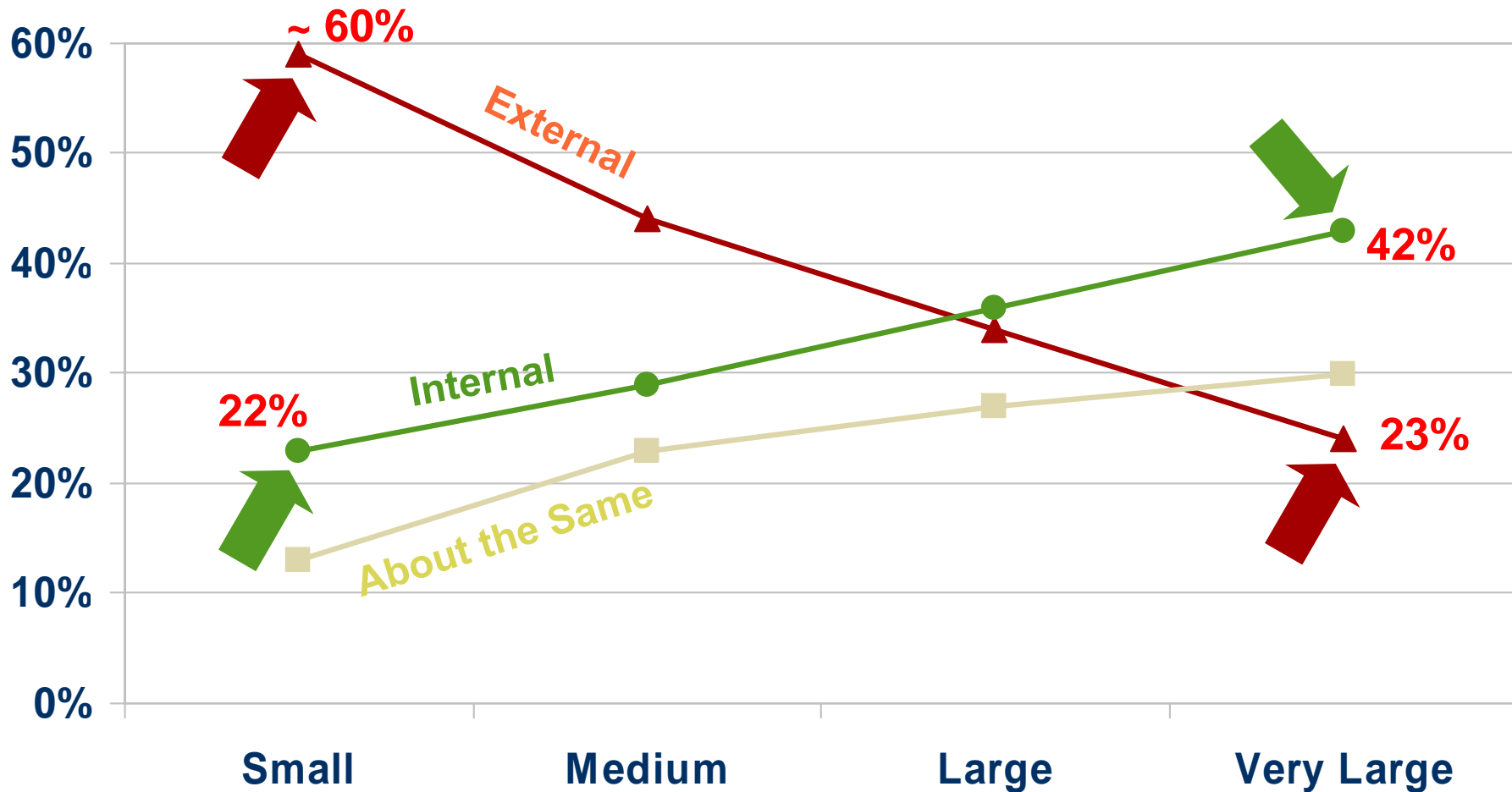
Enterprise Compliance Complexity



Inside Threats are an IT Growing Concern

Growing Internal Concern

Q: Do you believe that the most serious threats to your company's enterprise IT infrastructure originate from internal or external sources?



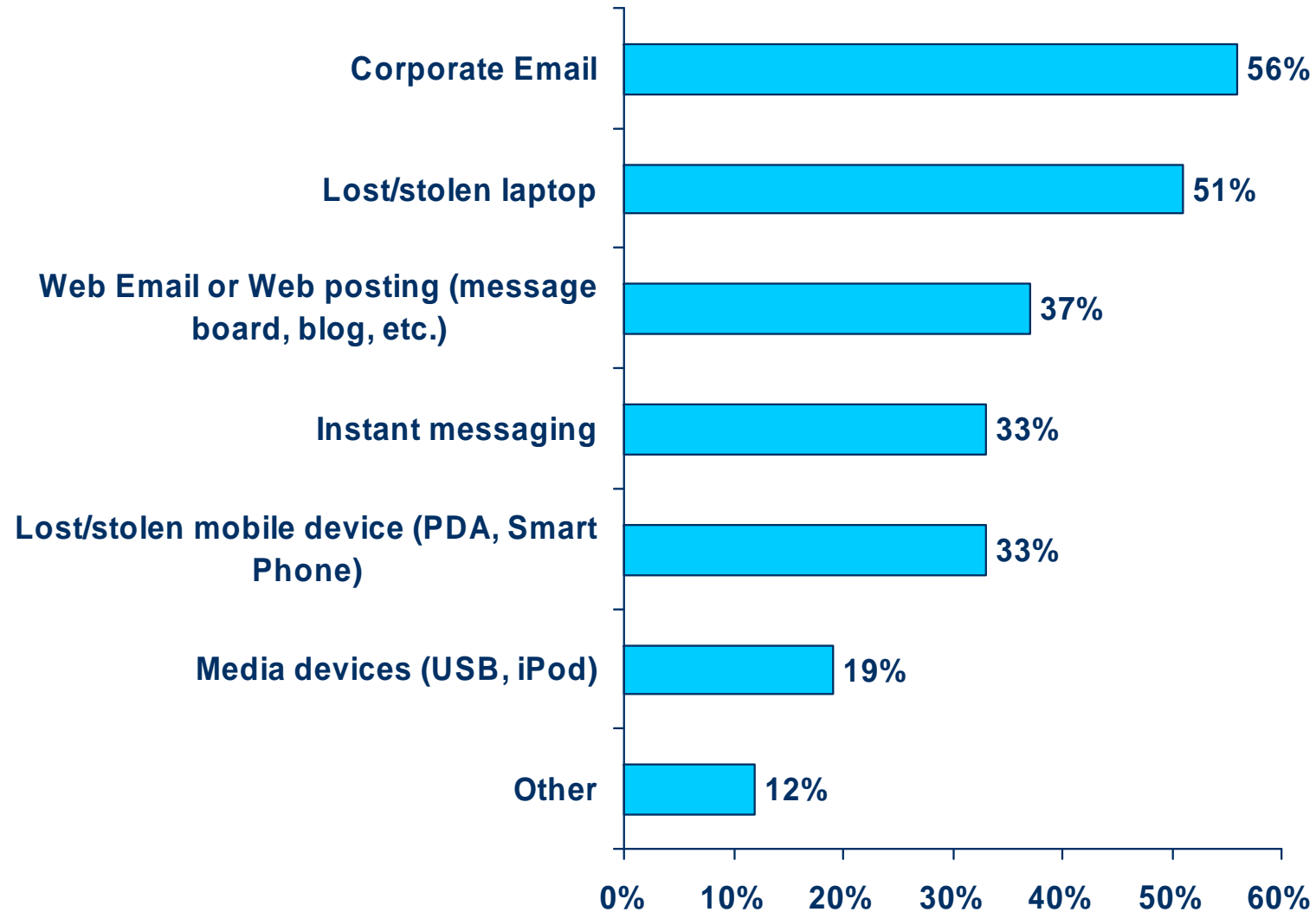
Data Loss Prevention (DLP)

Data Loss Prevention (DLP)

DLP includes solutions discover, protect, and control sensitive information including:

- **Data-in-motion.** Data-in-motion includes solutions that monitor, encrypt, filter, and block outbound content contained in email, instant messaging, peer to peer, file transfers, Web postings, and other types of messaging traffic.
- **Data-at-rest.** Data-at-rest includes solutions that discover, protect, and control information on desktops, laptops, file/storage servers, USB drives, and other types of data repositories.
- **Data-in-use.** Data-in-use includes solutions that protect and control information in use. These solutions are used to maintain the integrity of sensitive information such as contracts, term sheets, and other business-critical documents.

Confidential Information Leak Sources



Encryption Use Grows In 2008

Encryption Is Growing Rapidly Due To:

- ✓ Compliance
- ✓ Privacy Disclosures
- Encryption Key Management & Recovery Are Major Issues
- **Interest In Encrypted e-Mail Is Growing**
- File Encryption For Laptops And Mobile Devices Are Hot
- Secure Storage With Protection Of Data At Rest Is Hot

Major Security Trends 2008

- Movement Away From Software Towards Appliances and Bladed Solutions
- Convergence of Security, Storage, Systems and Networking management (3SN)
- Security-based Solutions for Regulatory and Internal Policy Compliance
- Single Approach to Compliance, Not a Series of Point Products
- Consolidated Dashboards, Agents, Reporting Tools, and Log Management Systems
- Granular Content Filtering With Layers of Managed Services, Appliances, and Software



Thank You
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