Safeguarding Corporate Data

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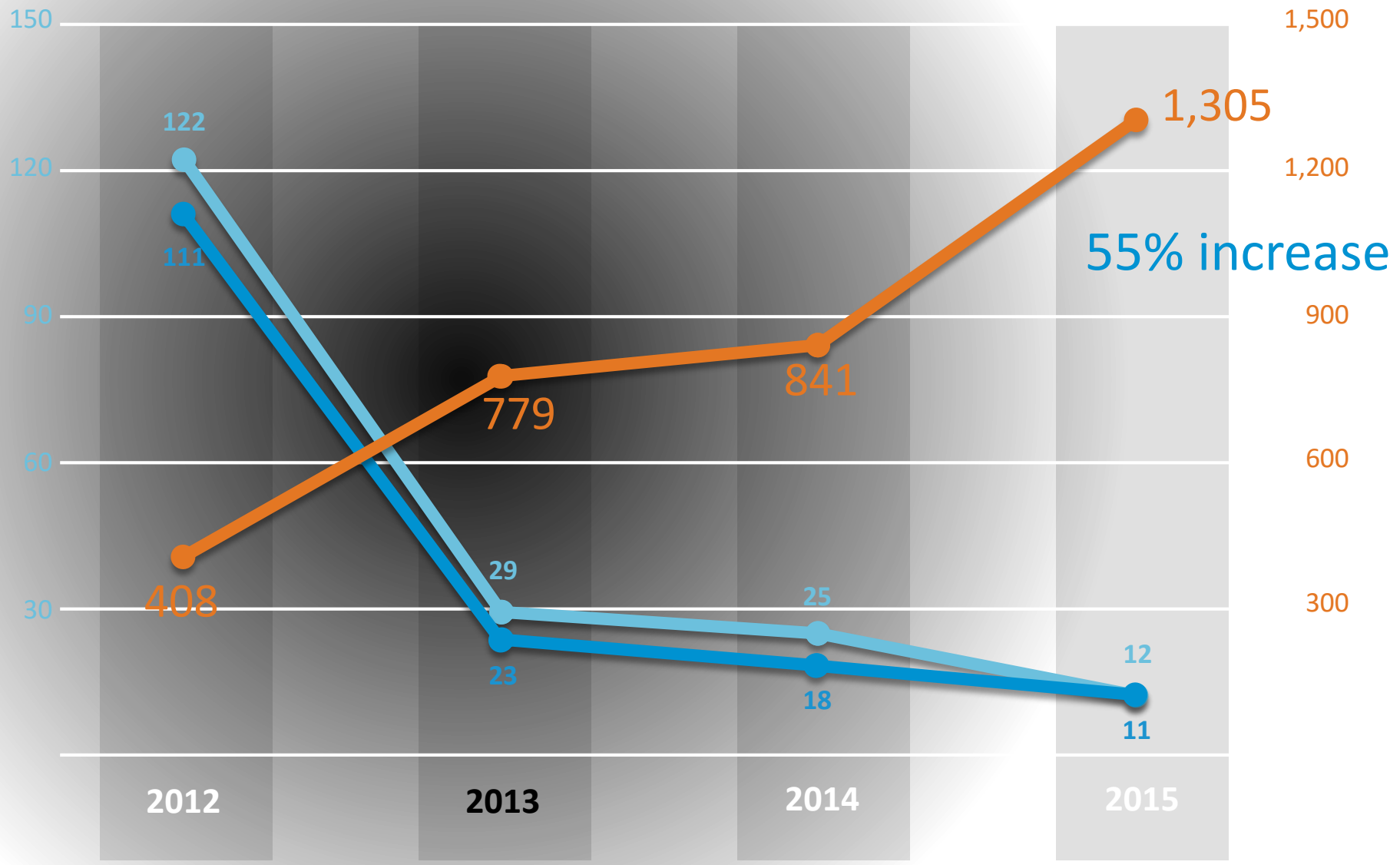
Agenda

- Threat Landscape
- Enterprise Data Protection
- The Problems We Face
- A Multi-layered Approach

Targeted Attacks

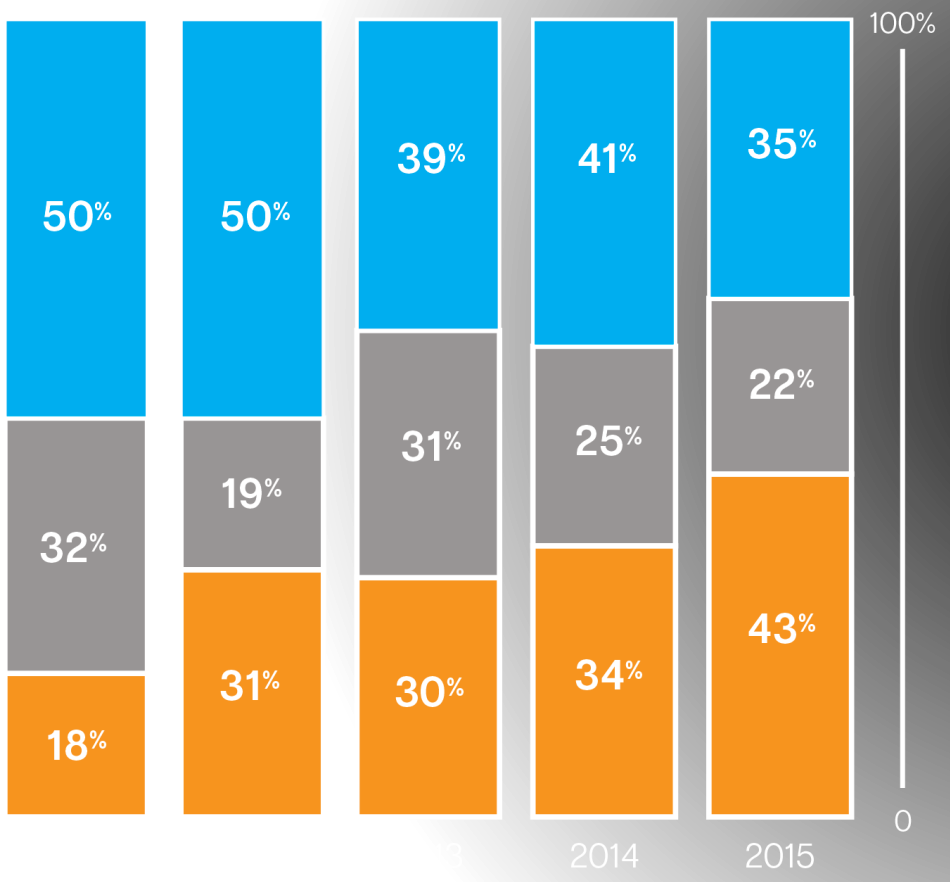
Targeted Attack Campaigns

- Average Number of Email Attacks Per Campaign
- Recipients per Campaign
- Campaigns



Source: Symantec's 2016 Internet Security Threat Report Volume 21

Spear-Phishing Attacks by Size of Targeted Organization

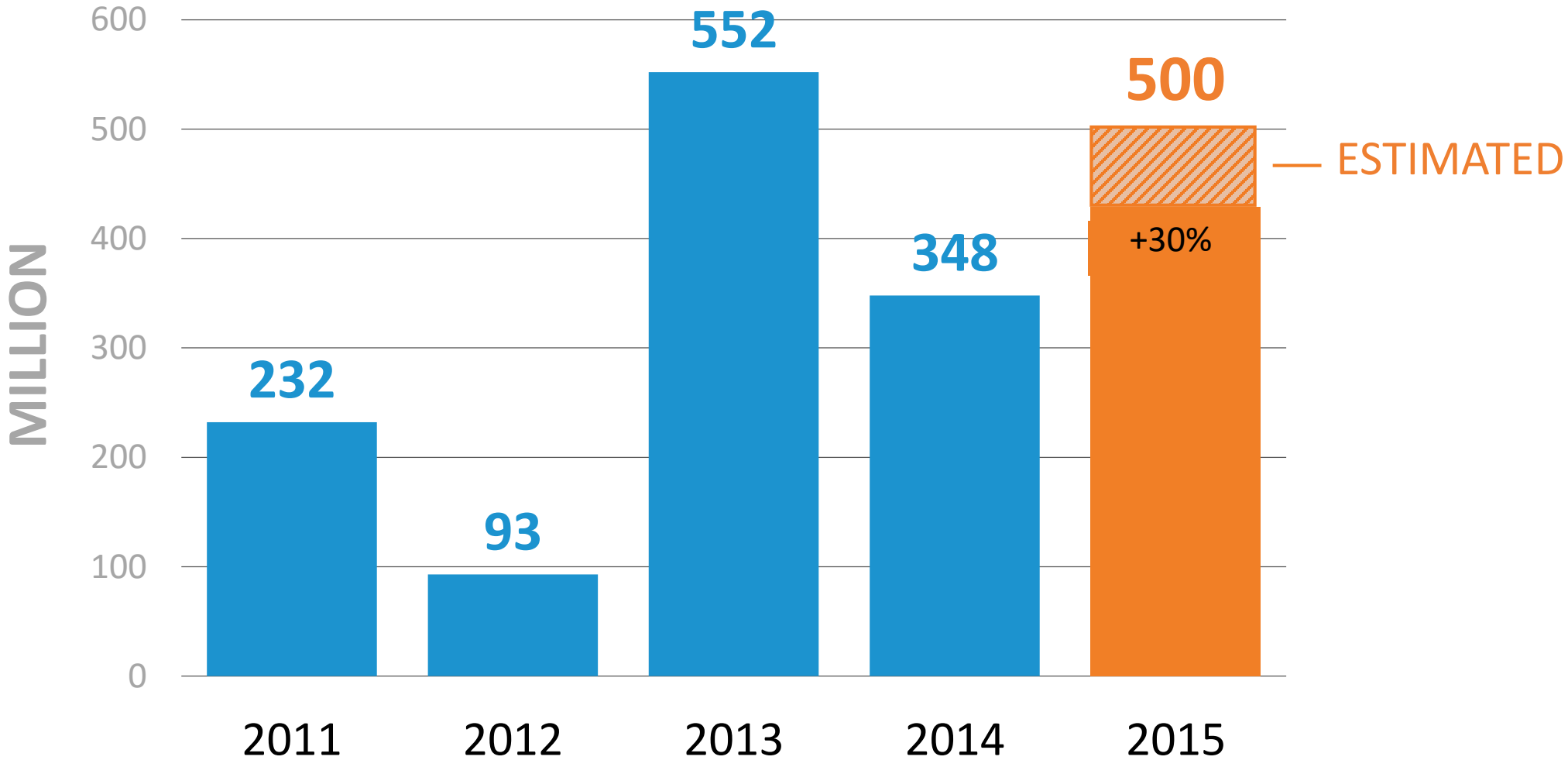


Org Size	2015 Risk Ratio	2015 Risk Ratio as Percentage	Attacks per Org
Large Enterprises **2,500+** Employees	1 in 2.7	38%	3.6
Medium Business **251–2,500** Employees	1 in 6.8	15%	2.2
Small Business (SMB) **1–250** Employees	1 in 40.5	3%	2.1

Source: Symantec's 2016 Internet Security Threat Report Volume 21

Data Breaches

Total Identities Exposed



Source: Symantec 2016 Internet Security Threat Report Volume 21

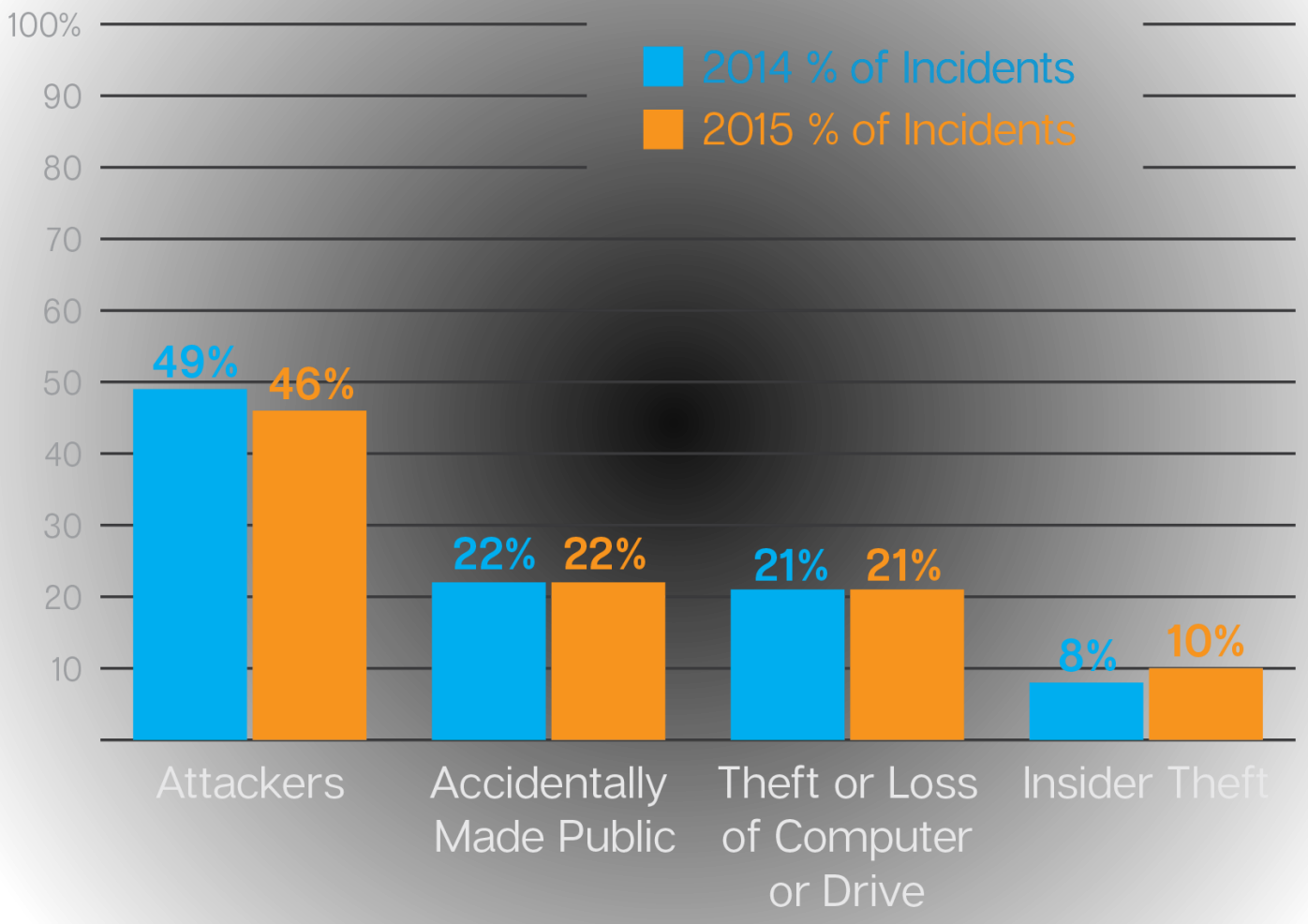
Mega Breaches 2015

Source: Symantec 2016 Internet Security Threat Report Volume 21

> ***"Vendor as a Vector: 97% of breaches featuring stolen credentials leveraged legitimate partner access."***
>
> 2016 Verizon Data Breach Investigations Report

> ***"89% of data breaches had financial gain or espionage motive"***
>
> 2016 Verizon Data Breach Investigations Report

Top Causes of Data Breach by Incidents



Source: Symantec 2016 Internet Security Threat Report Volume 21

Enterprise Data Protection

Enterprise Data Protection

- Data protection is the process of safeguarding important information from corruption and/or loss.
- Data Protection is not just a DLP Solution.
- An enterprise data protection strategy encompasses people, policy, processes, and procedure.
- Best Practice approaches adapted to your organizational needs, requirements, and risk tolerance.
- Protecting an Enterprise requires everyone enabled and working together.
- It’s not just an insider threat issue.

Enterprise Data Protection: The Problem We Face

- Humans are still our weakest link!!!
- The complexities we face are growing as technology continually evolves.
- Budget and resource constraints
- Cloud adoption
- Shadow IT
- Increasing threat from nation states and sophisticated, well funded groups.
- Employee trust can still open organizations up to insider threat

A Multi-layered Approach

Thoughts on a Multi-Layered Approach

"No locale, industry or organization is bulletproof when it comes to the compromise of data."

- 2016 Verizon Data Breach Investigations Report

"The NIST Cybersecurity Framework can be utilized to implement an insider threat mitigation program."

- The SANS Institute

"Insider attacks can be prevented only through a layered defense strategy consisting of policies, procedures, and technical controls."

- CERT, Common Sense Guide to Mitigating Insider Threats

"It is more critical to focus on all aspects of your security posture (people, processes, and technology) than ever before."

- FireEye M-Trends 2016

Multi-layered Approach

- Humans are still our weakest link!!! Security awareness training (that includes Phishing awareness) is essential!
- A comprehensive multi-layered approach will include people, policy, process, procedures, and technology.
- Work to mature you cybersecurity program and practice. Frameworks, standards, and best practices can be helpful in this process.
- Data Protection programs should protect against both insider and outsider threats.
- Know your enemies and know yourself.

Multi-layered Approach

- Mature your asset management and patching process.
- Understand where your data resides and who has access to it. Put controls in place to monitor and protect that data.
- Implement a risk management strategy to identify threats, protect against known threats, detect unknown threats, increase your ability to respond to and contain attacks when they happen, and recover from attacks/compromise.
- Leverage rich security intelligence and advanced tools to identify indicators of compromise.
- Leverage lessons learned and other data driven metrics to continually improve and mature your enterprise data protection program.

Thank You!

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