



Cyber Security Panel

**MFM Conference – Panel Discussion with
Tribune Media Company**

May 21, 2019



Agenda

- KPMG Cyber Security Trends and the Evolving Threat Landscape
- Tribune Cyber Security History and Perspectives
- Lesson Learned from Recent Cyber Incident at Tribune
- Questions

Forbes Insights and KPMG Cyber Survey	
What would your organization need the most to be more <u>effective</u> in cyber security?	
Stronger processes	27%
More technology	22%
Better strategy	21%
Increased funding	19%
Better quality staff	7%
More staff	4%

Do We Have Our Eyes Open?



...There is a growing deficit between how quickly attackers can compromise vs. how quickly organizations can detect and respond. *In other words, Attackers are improving faster than defenders...*



Cyber Security Trends and the Evolving Threat Landscape

Changing Board Reporting Trends

Board level awareness of emerging cyber threats and direct involvement in determining the response is critical and growing.

Key trends include:



Boards have moved to at least a **Quarterly** update on Cyber Security and its impact to Strategy discussions. *(Is Cyber part of the Board's regular strategy discussions?)*



Boards want to know the CIO / CISO **know when and how to act** in a Cyber incident, and are **empowered** to act.



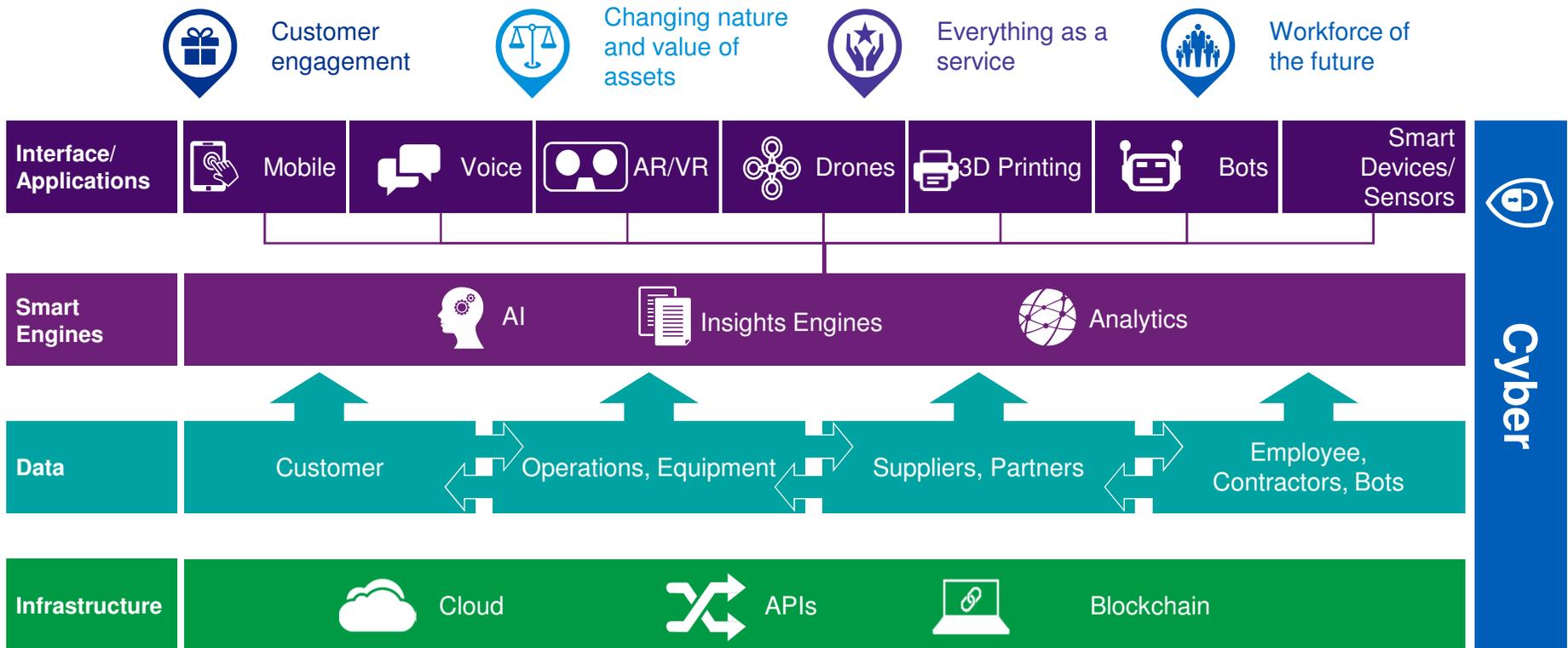
Key shift in direction from reactive and detection to **proactive** and **resilient**

- Are we Resilient enough to meet our risk and downtime tolerances?
- What progress have we made in moving from reacting to anticipating cyber attacks?



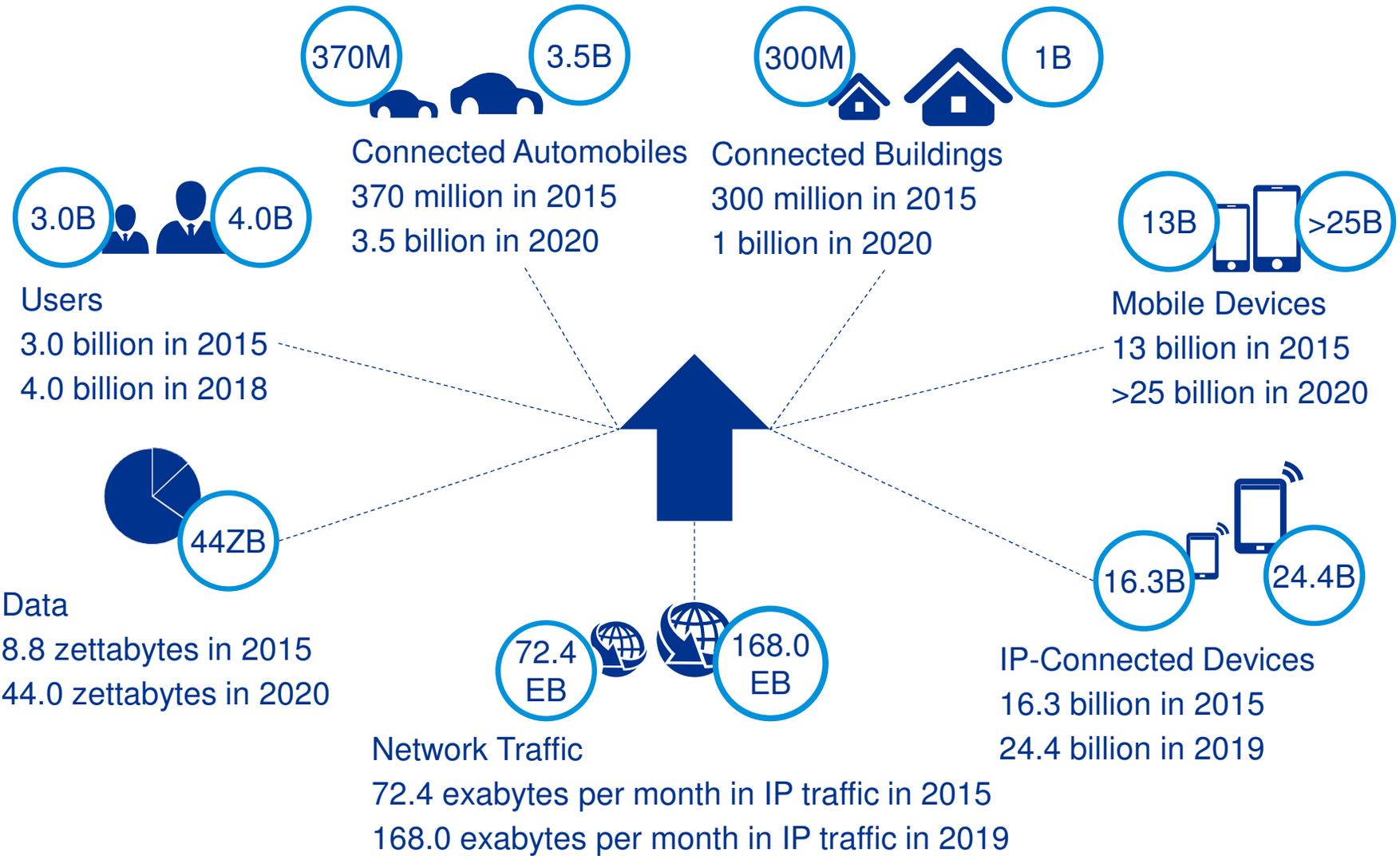
Boards want to know how the Cyber threats translate into a **Business Context** and compare to other risks. *(How do we demonstrate the ROI on our Cyber Investments?)*

The 21st Century Enterprise



Security by Design must be at the heart of the digital transformation efforts underway across numerous industries and technology enablers.

New Platforms Mean New Threats



Sources: McAfee Labs (2015)

State of the Market: The Internet of Things 2015, Verizon (2015)



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Current Cyber Security Trends



Extortion-driven attacks, **ransomware** and **targeted phishing** attempts will increase and will become more threatening, more sophisticated and destructive



Customer data privacy and protection are driving business decisions and requires new thinking to embed Privacy into the DNA of the business



Widespread Cyber **skills shortages** are amplifying the need to increase **Automation**, AI and SOAR to increase efficiency and effectiveness of human time



Insider threat will be brought into greater focus as technology improves, allowing visibility into credential abuse



Organizations will focus much more on risks posed by **third-party vendors** and **suppliers**



Advanced **digital identities** and **authentication** are key business enablers that will improve the customer experience, secure data, prevent fraud and engender **trust**

Cloud Risks in part stem from shared responsibility model

1. The adoption of cloud introduces a shared responsibility model for security
2. Consumers have the most responsibility with IaaS and least with SaaS cloud models
3. This shared responsibility model can create confusion and risk exposures for cloud consumers if not properly understood and addressed

Organizations should clearly define cloud security roles and responsibilities and ensure cloud vendor contracts, cloud vendor implementations, and control operations address gaps.

Responsibility	On-Prem	IaaS	PaaS	SaaS
Data classification & accountability	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Customer
Client & end-point protection	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Provider
Identity & access management	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Provider
Application level controls	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Provider
Network controls	Cloud Customer	Cloud Customer	Cloud Provider	Cloud Provider
Host infrastructure	Cloud Customer	Cloud Customer	Cloud Provider	Cloud Provider
Physical security	Cloud Customer	Cloud Provider	Cloud Provider	Cloud Provider

Legend: ■ Cloud Customer ■ Cloud Provider

Source: Microsoft what does shared responsibility in the cloud mean
<https://blogs.msdn.microsoft.com/azuresecurity/2016/04/18/what-does-shared-responsibility-in-the-cloud-mean/>

Call to Action

New threat model

- Organizations have to align their security programs to the new threat model
- Full attention should be paid to the insider threat as well as the external attacker

Compliance does not equal cyber maturity

- Organizations need to assess cyber maturity against a more rigorous standard, not just regulatory compliance
- Integrate cyber security with compliance to drive organization wide initiatives
- Stronger reporting structure for the TOM (target operating model) and responsibility to not just the CIO but also to Compliance and the board

Security threats are not confined to your own organization

- Organizations have to improve their communications both internally and externally
- Integrated cyber security technologies, with strong reporting and monitoring capabilities

Increase cyber Investments – In the right order

- We need to invest in cyber security across the paradigm of people, process and technology
- Only invest in technology with a measurable plan!
- Attend to the basics first, build the right foundation before trying to advance



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