

# Boosting Canada's Cyber Immune System for Internet Health

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The Bell logo is displayed in white on a blue background. It consists of the word "Bell" in a bold, sans-serif font. The background of the slide features a blurred image of a laptop keyboard with a blue stethoscope resting on it, symbolizing the intersection of technology and healthcare.

# Cyber security risk on the rise

**Enterprises are more vulnerable than ever.**

**99 days median time to discover**

**Growing attack surface**

**40% increase in number of breaches in 2016**

**202.5 Gbps largest DDoS attack recorded by Bell**

**\$255 cost per stolen data record (Canada)**

**Sophisticated adversaries**

**Limited situational awareness**

**Security arms race**

**16+ hours longest DDoS attack**

**\$5B losses due to ransomware -  
15 fold increase from 2 years ago**

**Bell**

# Its time to think differently...

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Let go of the island mentality-  
**expand your defense.**

Minimize your blind spots-  
**awareness** enables effective action.

Cyber security is a **business risk** challenge, look for simple, sustainable solutions.

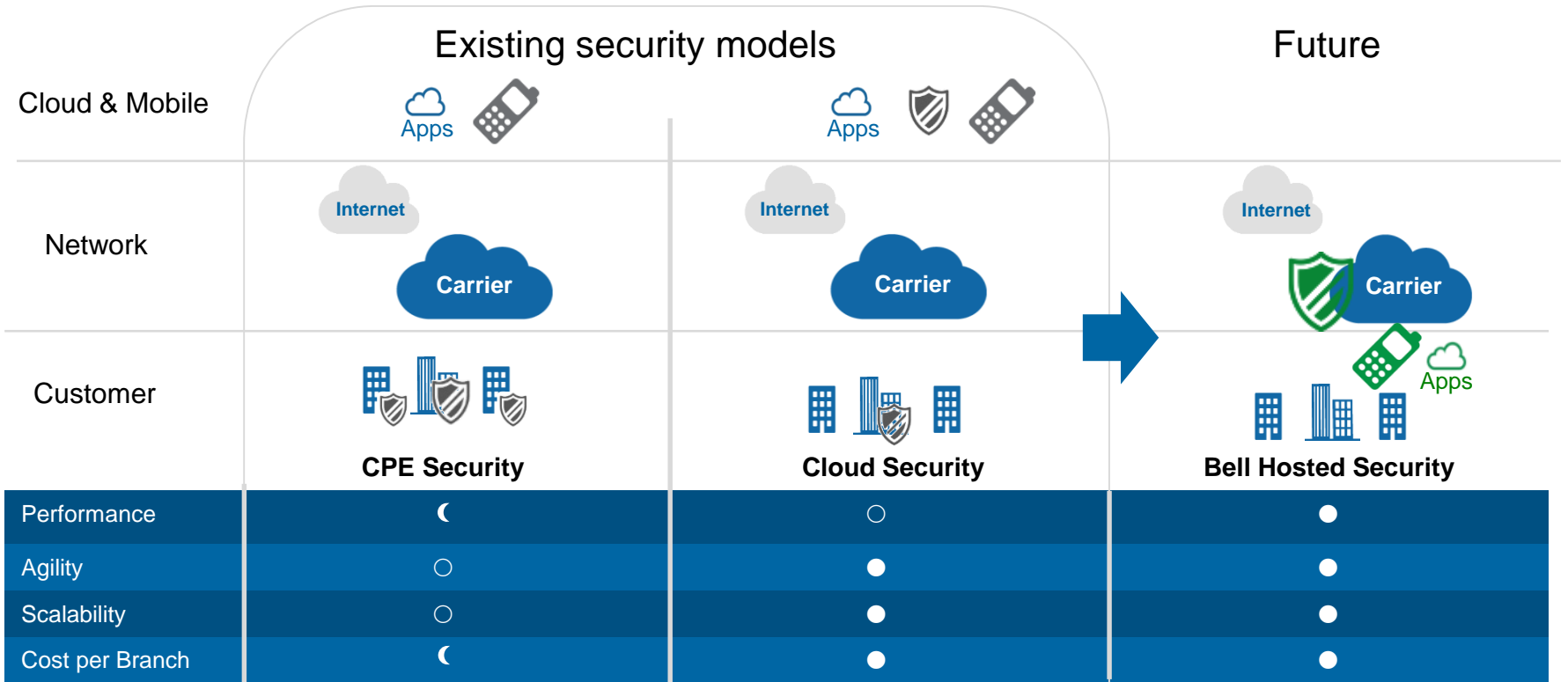
Don't underestimate your **adversary**- they follow a clear business objective and leverage broad **supply chain** to achieve.



Avoid single points of failure -  
take **defense-in-depth.**

How healthy is your cyber immune system?

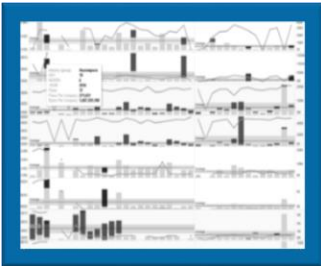
# Leverage your partners to boost your defense



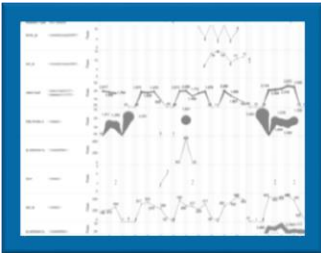
# Diagnostics - Cyber threat analytics



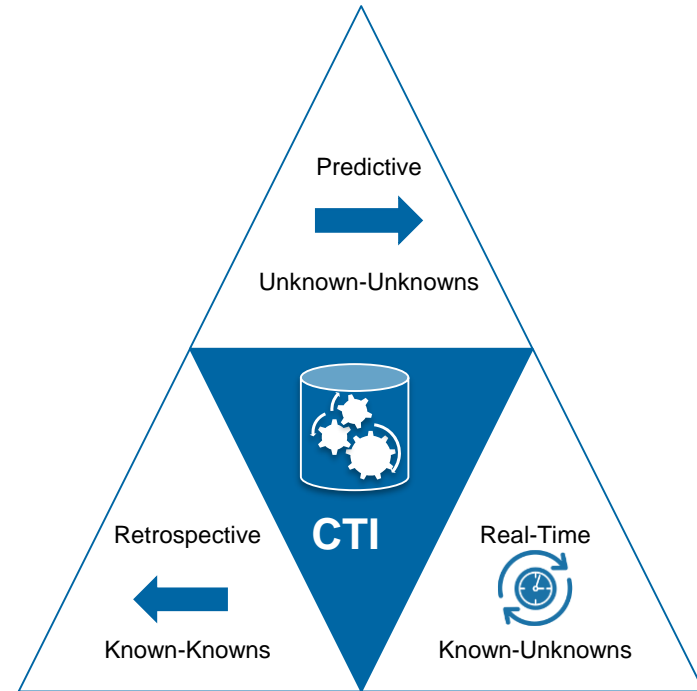
**25K+**  
Unique indicators generated  
monthly



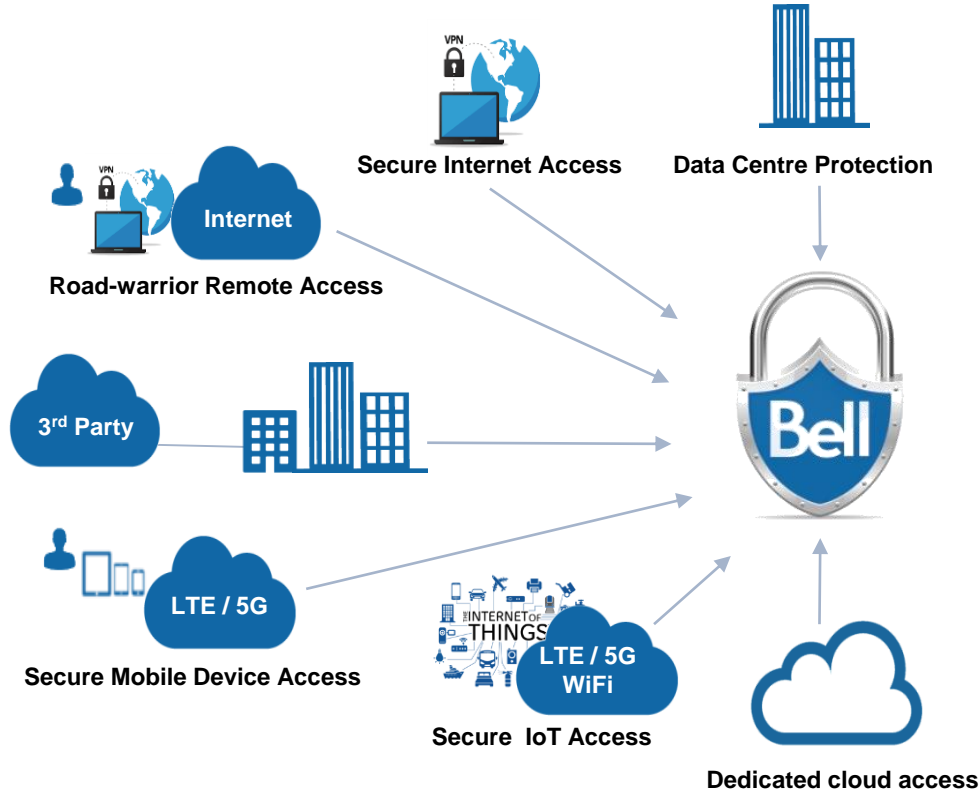
**65+ days**  
Malicious entities identified in  
advance of community



**92% accuracy**  
Improving Machine  
Learning accuracy



# Inoculation - Network protection as a service



- Firewall
- Anti-SPAM
- Reverse Web Proxy
- Intrusion Prevention
- Cloud Direct Connect
- Web Proxy & URL Filtering
- Web Application Protection
- Endpoint Policy Enforcement
- Mobile Device Direct WAN Connect
- Cyber Threat Analytics**
- Security Operations Center**
- Application Protocol Anomaly Detection
- Content Inspection and Sandboxing
- Cloud Access Security Broker
- Client Access Always-On VPN
- Encryption / Decryption
- Data Leak Prevention
- Site-to-Site VPN
- DDoS Protection

# Conclusion

Enterprise cyber security risks are on the rise.

Think of cyber security as a business problem - optimize the approach and maximize the cyber security budget.



Carriers are gateways to the Internet and have a unique role to play in community-based defense-in-depth.



# Thank you

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