

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**

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Its time to think differently...

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.

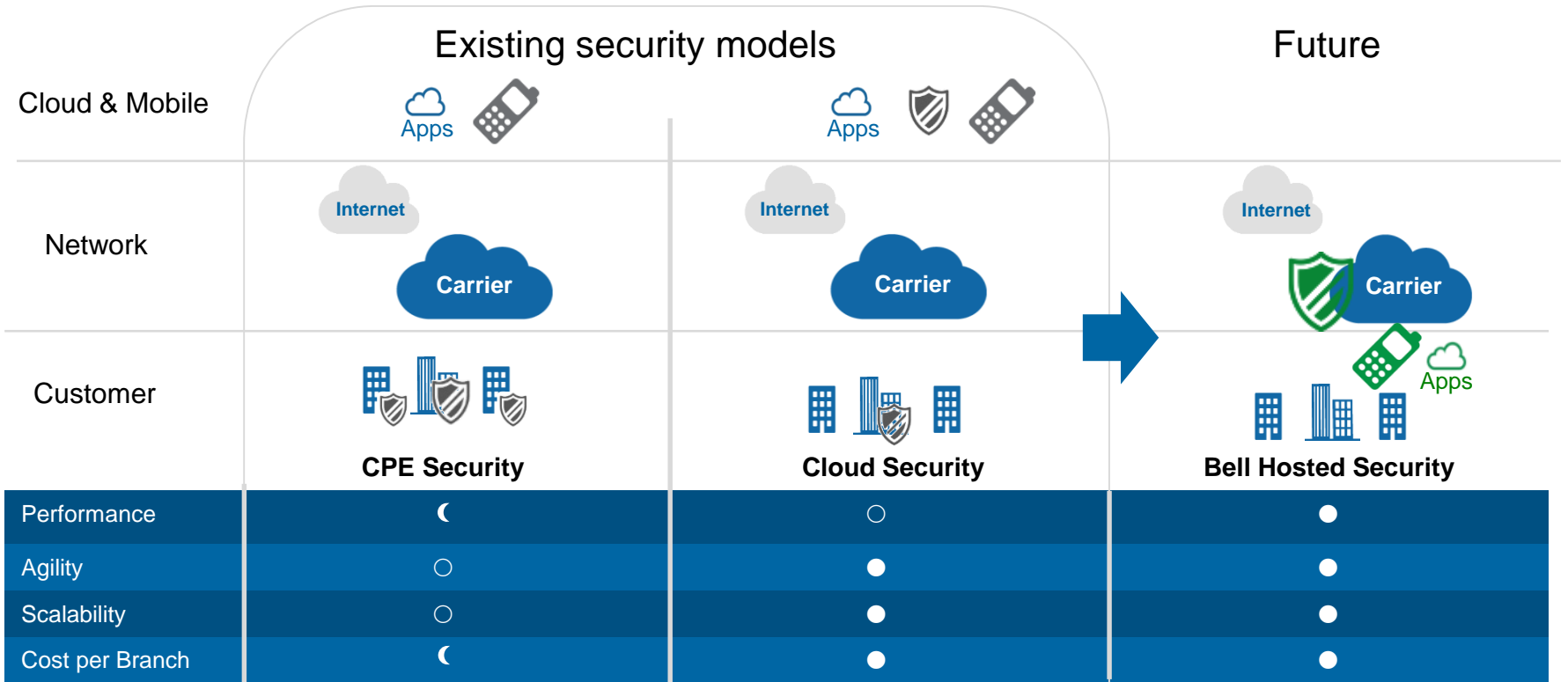
Don't underestimate your **adversary**- they follow a clear business objective and leverage broad **supply chain** to achieve.



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

How healthy is your cyber immune system?

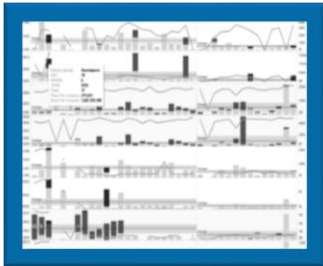
Leverage your partners to boost your defense



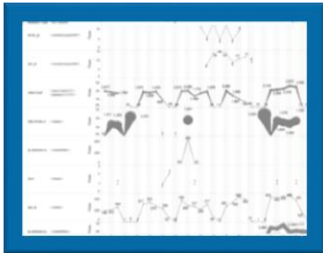
Diagnostics - Cyber threat analytics



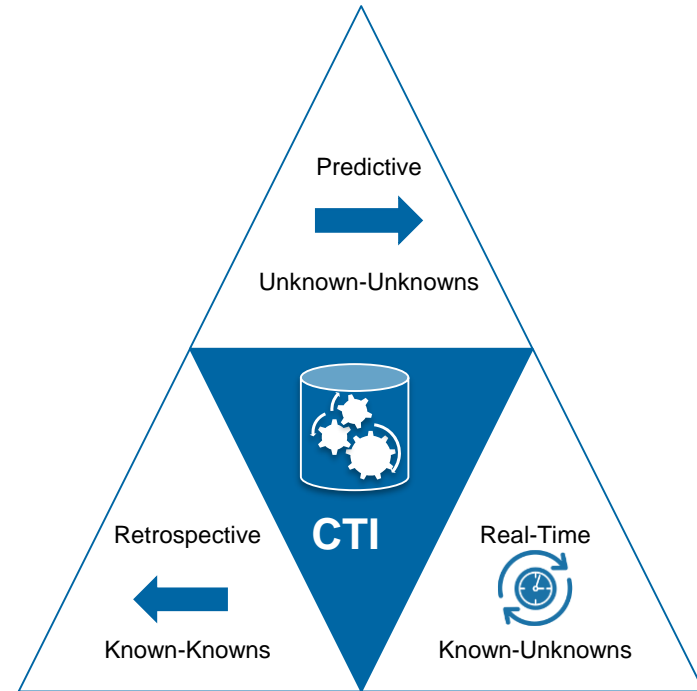
25K+
Unique indicators generated
monthly



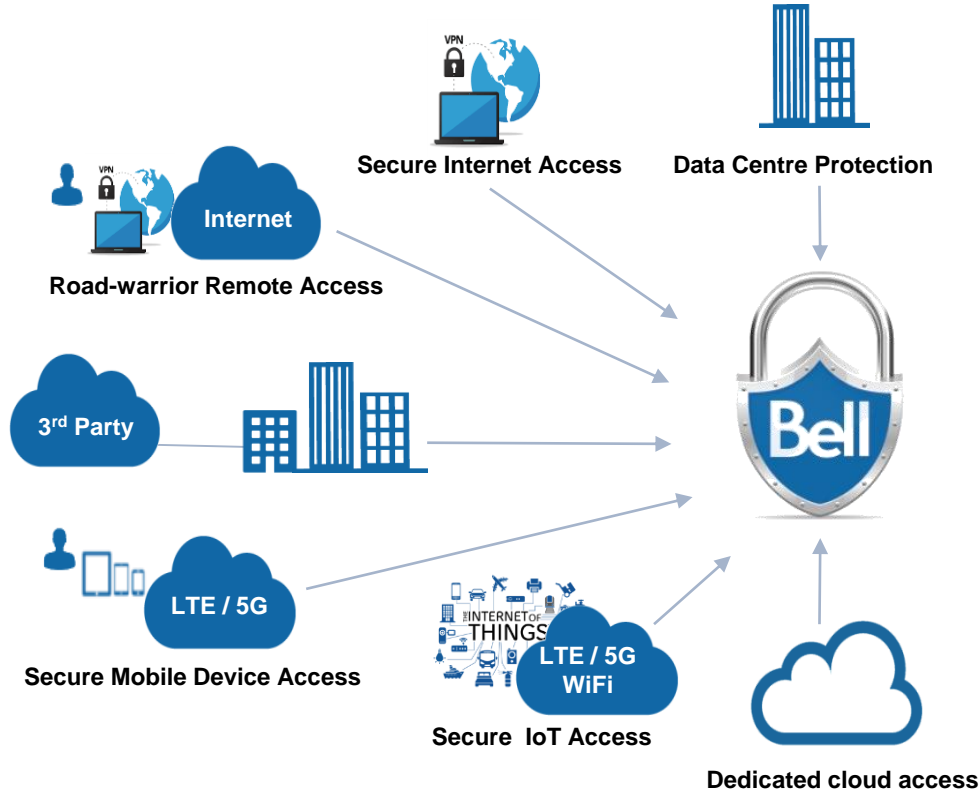
65+ days
Malicious entities identified in
advance of community



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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