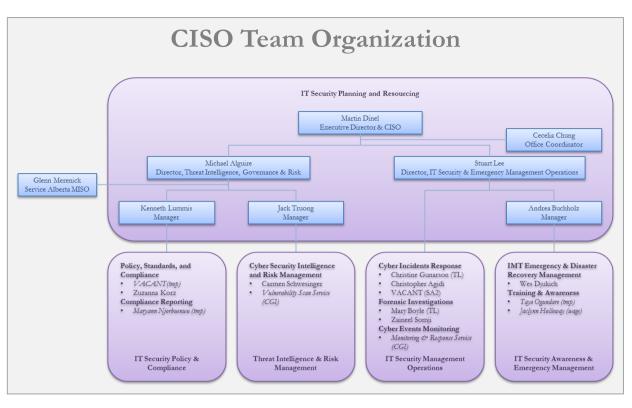
Cyber Security Environment

Government of Alberta

What Strategies Who are the What is the Is the Threat **Mitigation Activities Threat Actors** Threat? To GoA Real? Mitigate the Threats? **Or Initiatives** 16% GoA users Lack of cyber threat awareness often 188 cyber security **Operation Activities** results in accidental loss of data incidents due to user "clicked" on 2015 - MSS Transition errors in 2015 Email Phishing test confidentiality, integrity or availability Improved Monitoring when users either reveal secure 24% GoA users took IMT Incident Response Plan information or personal credentials. online security GoA InfoSec Framework Internal Staff 1) Hardening of the GOAL: None (accidental) training in 2015 Initiatives/Projects GoA's Cyber Security Cyber Security Toolset Posture CISO Service Catalog Natural disasters are random events 212 Critical apps 72% of Critical and Facilitation of InfoSec 180 Vital apps Vital have DRPs that cannot be predicted impacting IT Framework Compliance (too low!) services availability (eg: events such as (too high!) IT DRP Improvements power outages or critical events such 50% of Critical and IT Security Risk as tornadoes or floods.) Vital DRPs recently Management Improvements GOAL: None (random) Natural Disaster tested (too low!) 2.6B denied FW Hacktivists look for confidential Top country of origin connections from **Operation Activities** - denied connections: information to reveal to the outside 147K unique IPs in - Cyber Security Part of China (15%) world or perform website defacing. Performance Contract Gov. of BC website E-Learning required yearly was defaced by Hacktivist **Email Phishing Tests** GOAL: To shame the organization "Anonymous" in 2014 2) Increasing Information Initiatives/Projects Stakeholders Awareness Criminals have found a safe medium 90% of GoA emails Nov to Jan: - New In-Class Cyber Security to commit crimes anonymously, and 23 PC ransomware, (>500M) blocked Training for GoA staff make money. Crimes include fraud, cost impact: \$150K annually Upgrade of E-Learning and identity theft, ransomware, and many other online material Nov to Jan: other activities. Sometimes internal. 694 ransomware New In-Class MISO training Cyber Criminal GOAL: To make a profit blocked Trade secrets and other confidential World Govs travel to Denied external information that could give an edge China using separate connections also **Operation Activities** to a competitor or provide political throw-away devices attributed to this Cyber Security Ops report advantages is the ultimate goal of "Hacker Hunting": - Cyber Intelligence report cyber spies. - Tighter interactions with **SQL** Injection Cyber Spy GOAL: To gain competitive edge NCSIP, CCIRC and ASSIST attempts (2 China IP) Security Clearance Level 2 Initiatives/Projects Terrorists cyber attacks aim at taking **US** Homeland Denied external control of systems causing service Proactive - Develop Cloud Access connections also reports ransomware interruptions or disruptions, resulting Security Framework used for funding attributed to this in serious threats to human lives. New Cyber Threat Threat of hacking Blackmail is another related threat. Intelligence Services SCADA systems too Cyber Terrorist GOAL: To scare or hurt people Update and formalize Info

serious to ignore

Sec Risk Management



Corporate Information Security Office (CISO)

Government of Alberta



Cyber Security Incident?
Contact: DutySMO@gov.ab.ca

Cyber Security Program Question?

Contact: ciso@gov.ab.ca

