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BUILDING A **SAFE** AND **RESILIENT CANADA**

The Canadian Cyber Incident Response Centre (CCIRC)

OAS-FIRST Cybersecurity Symposium

September 2016

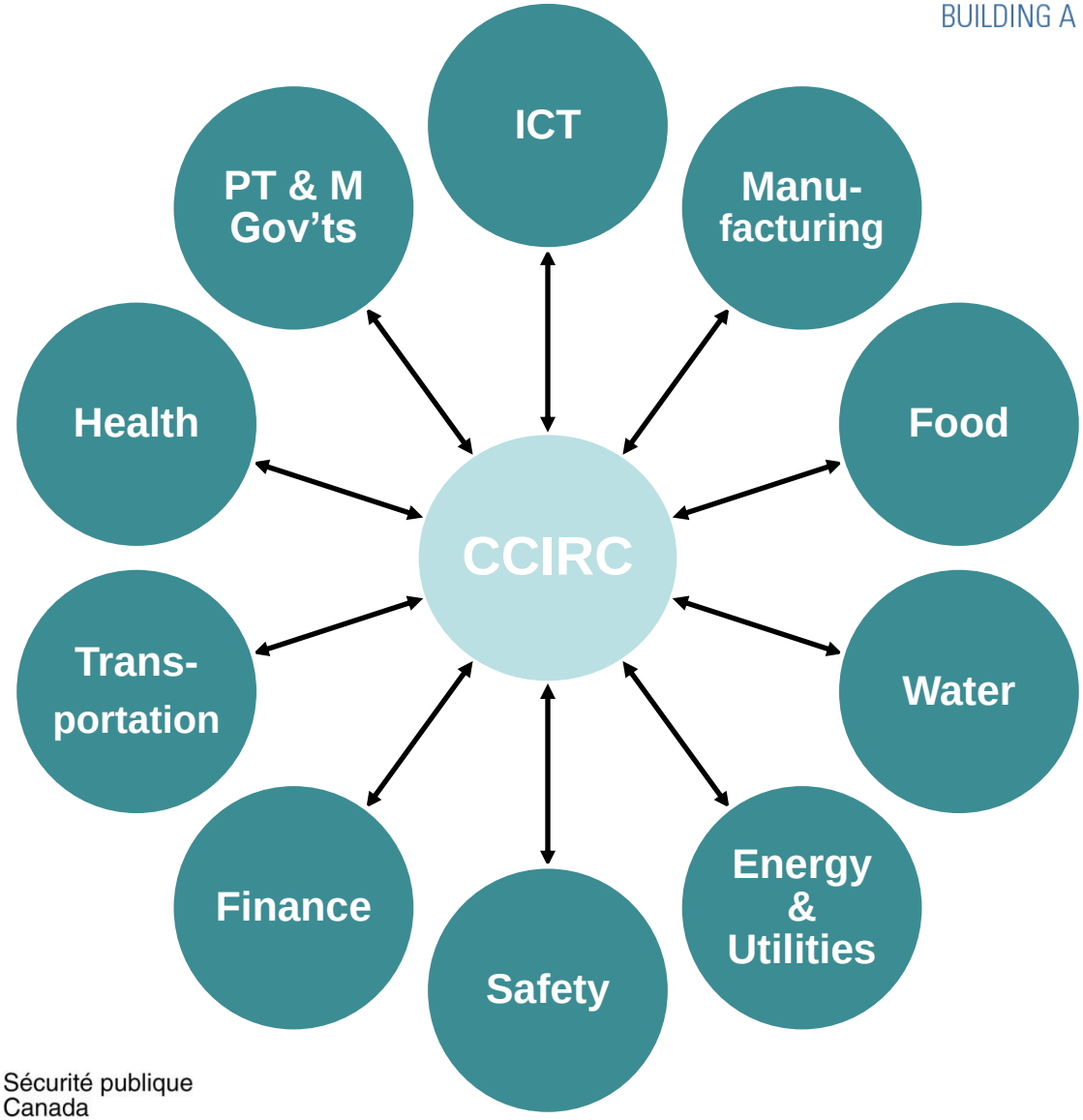
Canada

What is a CSIRT?

- *"A Computer Security Incident Response Team (CSIRT) is a service organization that is responsible for receiving, reviewing, and responding to computer security incident reports and activity. Their services are usually performed for a defined constituency that could be a parent entity such as a corporate, governmental, or educational organization; a region or country; a research network; or a paid client"*.
  - ***National CSIRTs*** *provide incident handling services to a country.*
  - ***Coordination Centers*** *coordinate and facilitate the handling of incidents across various CSIRTs*.

*CERT SEI Definition

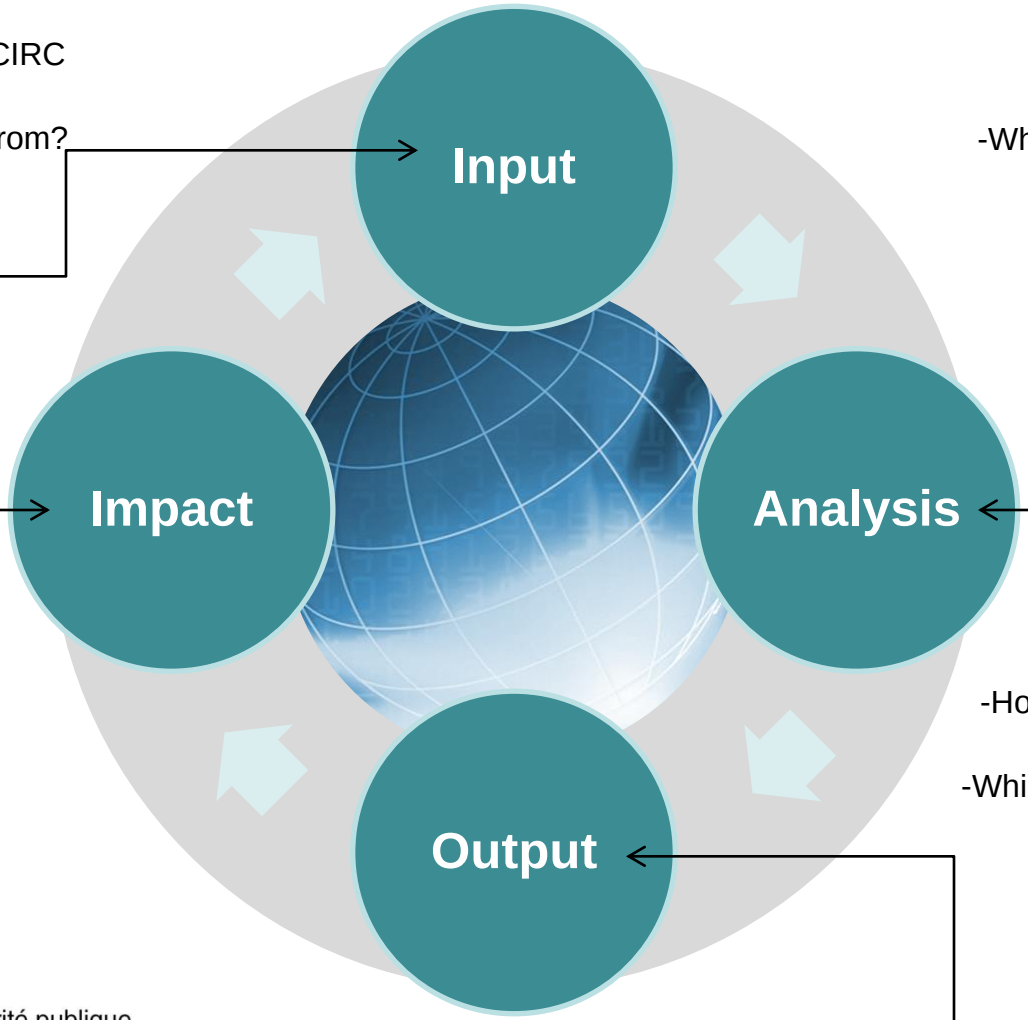
CCIRC Relationship with Critical Infrastructure



CCIRC's Operational Cycle

-What kind of data does CCIRC use?

-Where/who does it come from?



-What tools and resources do we use to process the information?

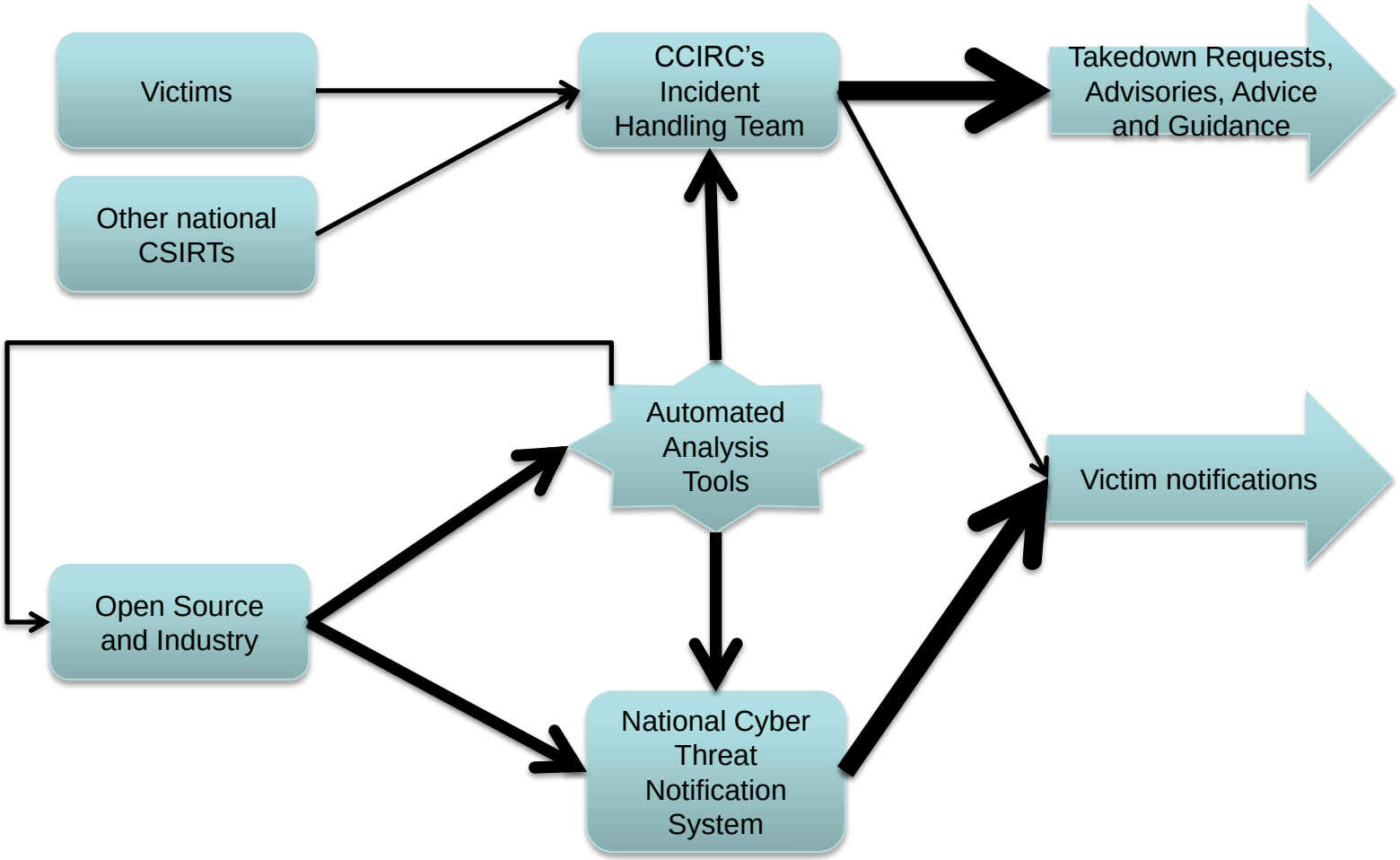
-What is the value of this process?

-How do the results influence the input?

-How do we disseminate the results?

-Which products or services do we provide?

CCIRC's Incident Management Process



Automating the CSIRT

Automation

Data Sources

- Feeds

Ingest → Process → Dynamic Reporting

Notifications

Knowledge

↓

Strategy

↓

Action

↓

Impact Assessment

Goal: Assess in real-time the Canadian Cyber Health

Malware vs. Vulnerable Services

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TLP Amber

Apr 01, 2016 to Apr 30, 2016

Canada

RESILIENT CANADA

Score Card

Canadian Cyber Incident Response Centre (CCIRC)

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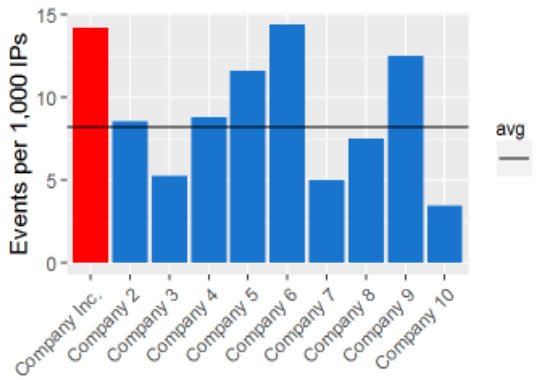
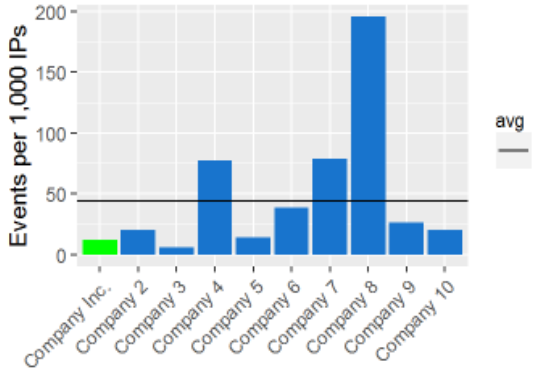
Malware (per 1,000 IPs Owned) ICT



*No malware to report in this period

Red indicates above average and green indicates below average.

Vulnerable Services (Per 1,000 IPs Owned) ICT



*No vulnerable services to report in this period

Red indicates above average and green indicates below average.

Automated Information Sharing: STIX/TAXII

- Structured Threat Information Expression (STIX) and Trusted Automated eXchange of Indicator Information (TAXII)
  - Two protocols to develop a standardized language to represent and share structured cyber threat information
  - Serves as a new way of sharing the same information CCIRC traditionally shares with its partners, but more actionable and timely format

STIX/TAXII Project (September 2016)

- Successfully operating a working model using STIX/TAXII with 30+ organizations
  - Shared indicators of compromise for active network defence and monitoring

Contact Us

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www.publicsafety.gc.ca/ccirc