



Government of Canada

Gouvernement du Canada



# CANADIAN SAFETY AND SECURITY PARTNERSHIP

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A Partnership Led by Defence R&D Canada – Centre for Security Science



Agriculture and Agri-Food Canada • Atomic Energy of Canada Limited • Canada Border Security Agency • Canadian Food Inspection Agency • Canadian Food Safety Commission • Canadian Security Intelligence Service • Communications Security Establishment • Defence Research and Development Canada • Environment Canada • Fisheries and Oceans Canada • Health Canada • Industry Canada • National Research Council • Natural Resources Canada • Privy Council Office • Public Health Agency of Canada • Public Safety Canada • Public Works and Government Services Canada • Royal Canadian Mounted Police • Transport Canada • Treasury Board Secretariat



# CSSP element of Defence R&D Canada Mission



- **Advise** PS Canada & partners in providing Public Safety & Security on relevant S&T
- **Conduct** public security R&D and analysis to meet the Federal Government's needs
- **Assess** and report on technology trends, threats, and opportunities
- **Engage** industrial, academic and international partners in the transition of S&T to fielded national capabilities



# CSSP Program Themes

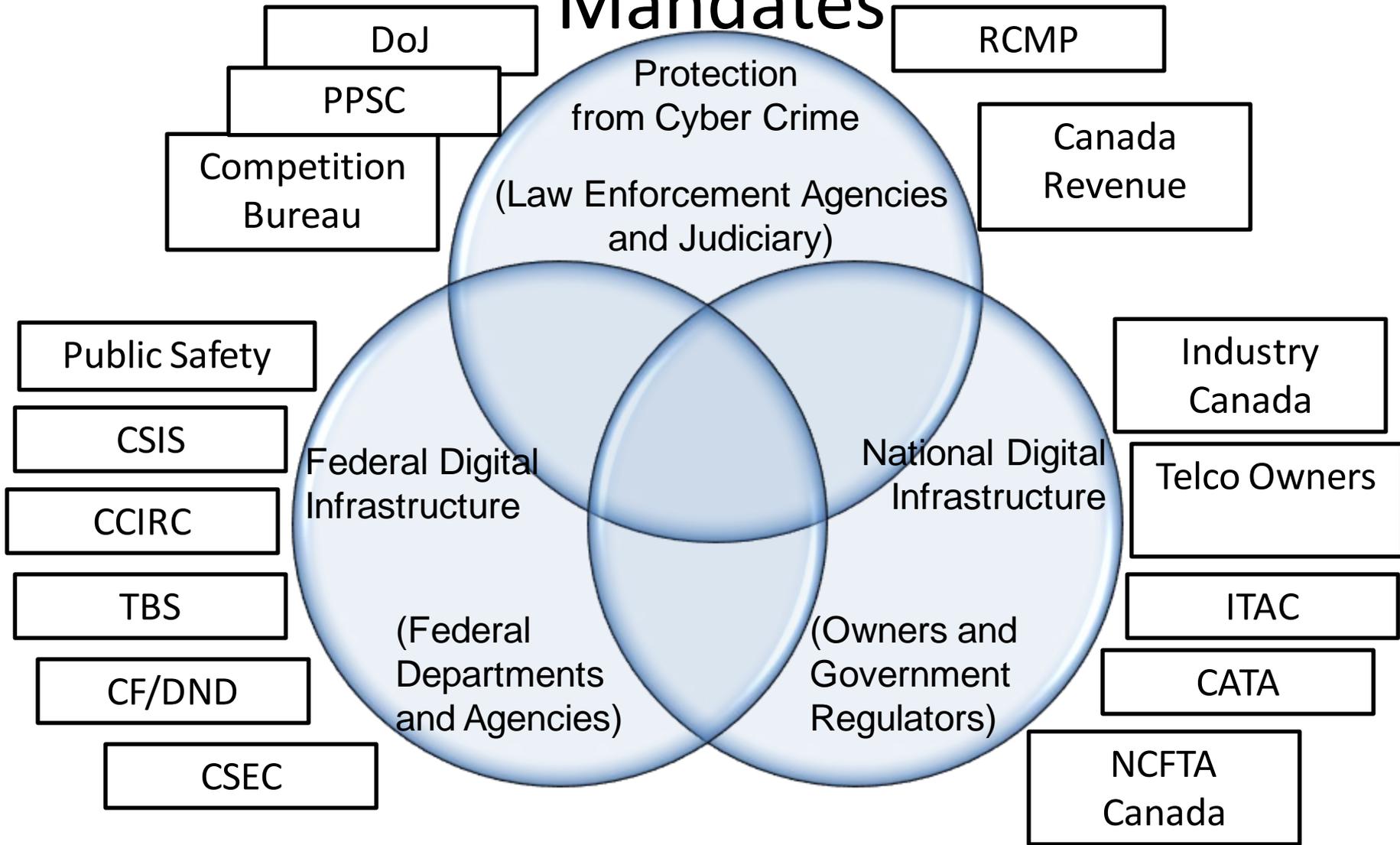
- Chemical, Biological, Radiological/Nuclear, Explosives
- Forensics
- Risk Analytics (Modeling and Simulation, Architecture Frameworks)
- Emergency Management and Systems Interoperability
- Surveillance Intelligence and Interdiction (Border Security, Biometrics)
- Critical Infrastructure Protection – Physical Security
- Critical Infrastructure - Cyber Security
- Operations Analysis
- Tri-Service (Blue Light) - Emergency Responder Test and Evaluation Establishment

# Many Organizations have a Mandate in Cyber

- **PS Canada** – domestic security and public safety, CIP
- **DND / CF** – military cyber operations (international and domestic support)
- **DRDC** – provide S&T support to the CF and DND including cyber
- **CSEC** – provide guidance and services to the Government of Canada for protecting electronic information and provide technical and operational assistance to federal law enforcement and security agencies.
- **CSIS** - investigation of cyber attacks conducted with a “political motivation”
- **RCMP** – investigation of suspected illegal use of cyber technology
- **IC (Telecoms/ CRC/ Comp Bureau/eCommerce)** - responsible for encouraging the development and adoption of e-business in Canada
- **DoJ** - draft legislation and establish legal framework related to cyber crime
- **DFAIT** - coordinating an inclusive Canadian position on cyber crime for international distribution
- **TBS** - provides strategic direction and leadership for information management and technology in the Government of Canada
- ...

# Pillars of Canada's Cyber Strategy &

## Mandates



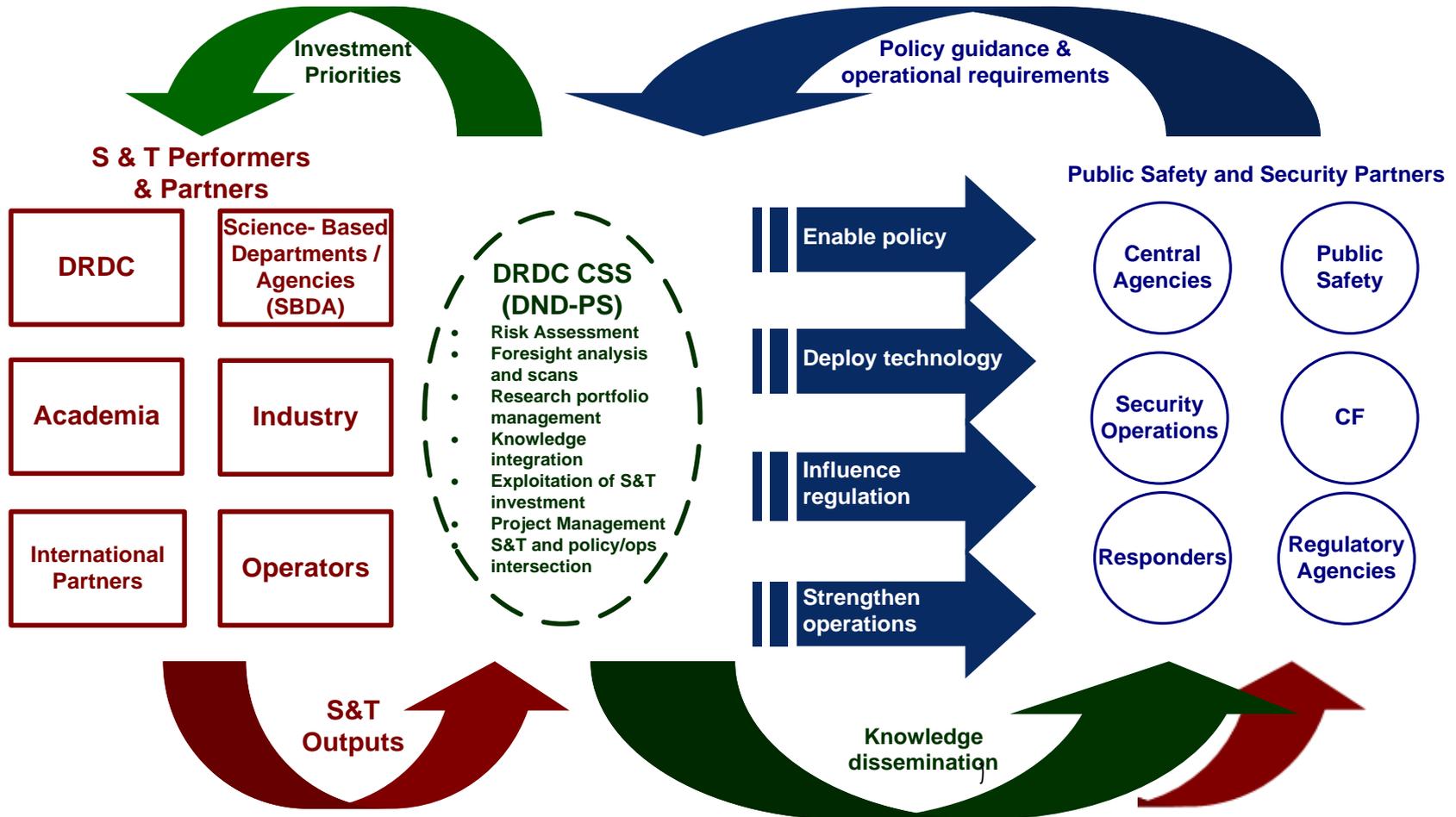
Allies, Academia

# Types of Cybernetic Activity

- Cyber Security- The art of minimizing risk
- Cybercrime- Offences that are punishable by law
- Cyber Espionage- The act **or** practice **of** obtaining secrets without the permission of the holder of the information
- Cyber Weapons- Categories of defensive and offensive
- Cyber War- No stand-alone cyber-offence on record so it remains a metaphor for the time being.

# The Canadian Safety and Security Enterprise

## Where CSSP Fits

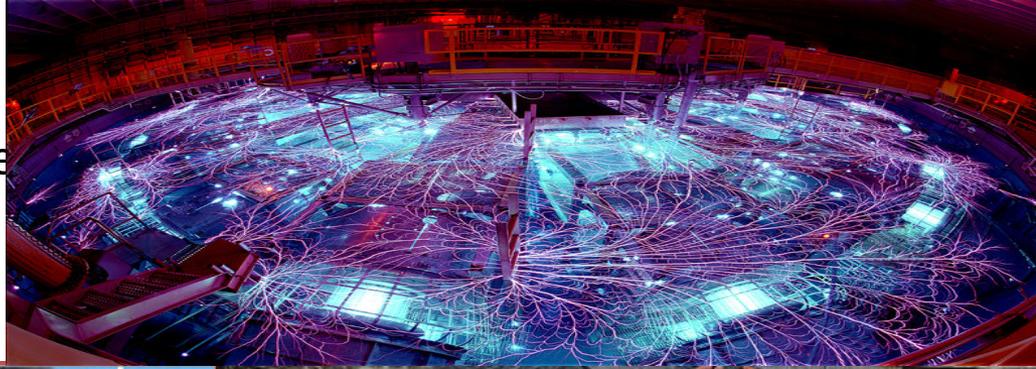


# CSSP – Cyber Client Base

- Community of Practices
  - Industrial Control Sector (Oil, Water, Gas, Electricity)
  - Telecom Sector (Service Providers, Telecom Equipment Providers)
  - *Financial Sector (Banks, )*



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Canadian Border  
1/2 Mile Ahead

