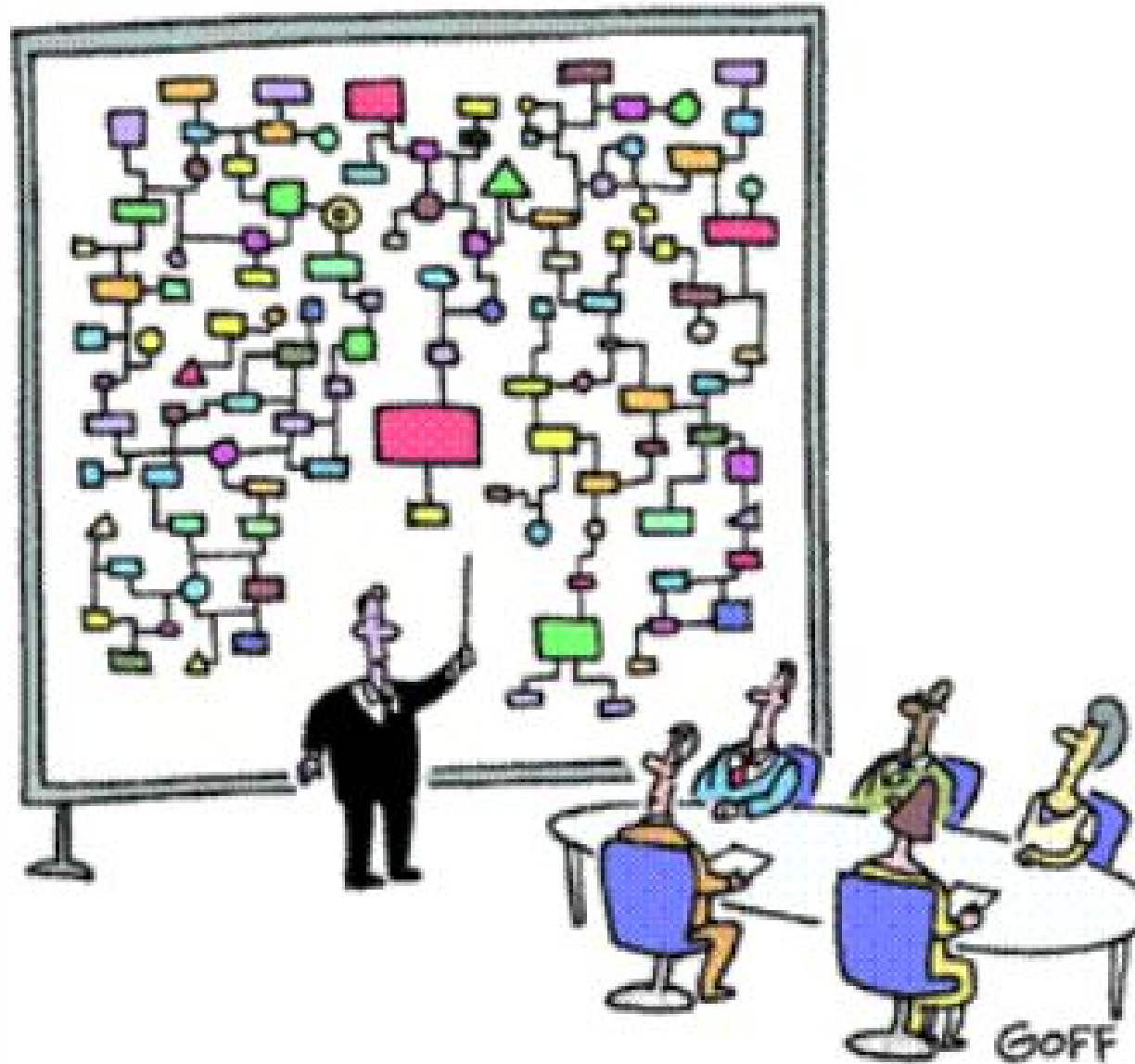


Briefing to National Association of Regulatory Utility Commissioners

February 12, 2017



Homeland
Security



"And that's why we need a computer."

Framework

...Because I'm a Government Employee

Guidance Documents

National Infrastructure Protection Plan 2013: Partnering for Critical Infrastructure Security and Resilience

- “Share actionable and relevant information across the critical infrastructure community to build awareness and enable risk-informed decision making”

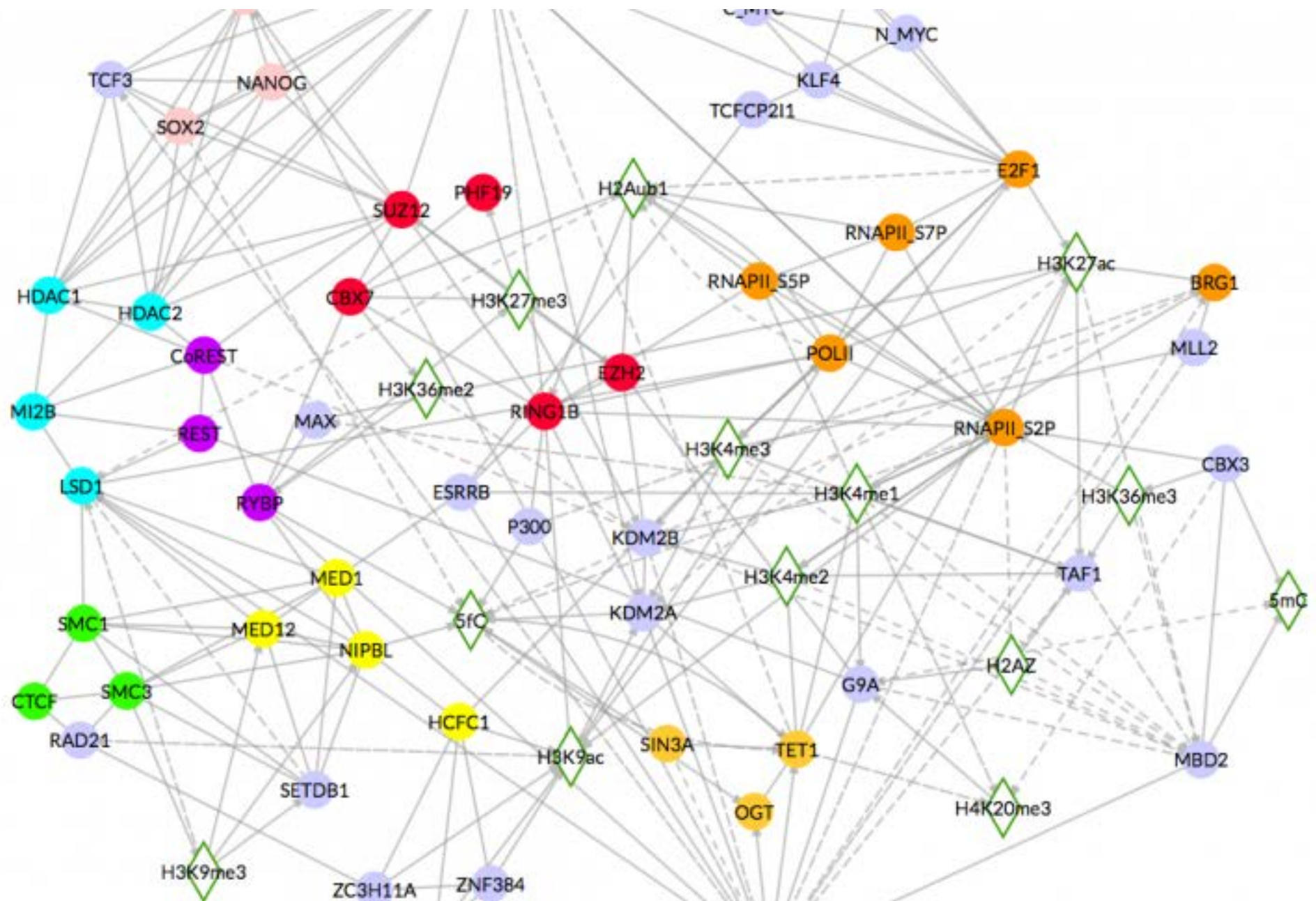
National Strategy for Information Sharing and Safeguarding

Purpose and Scope

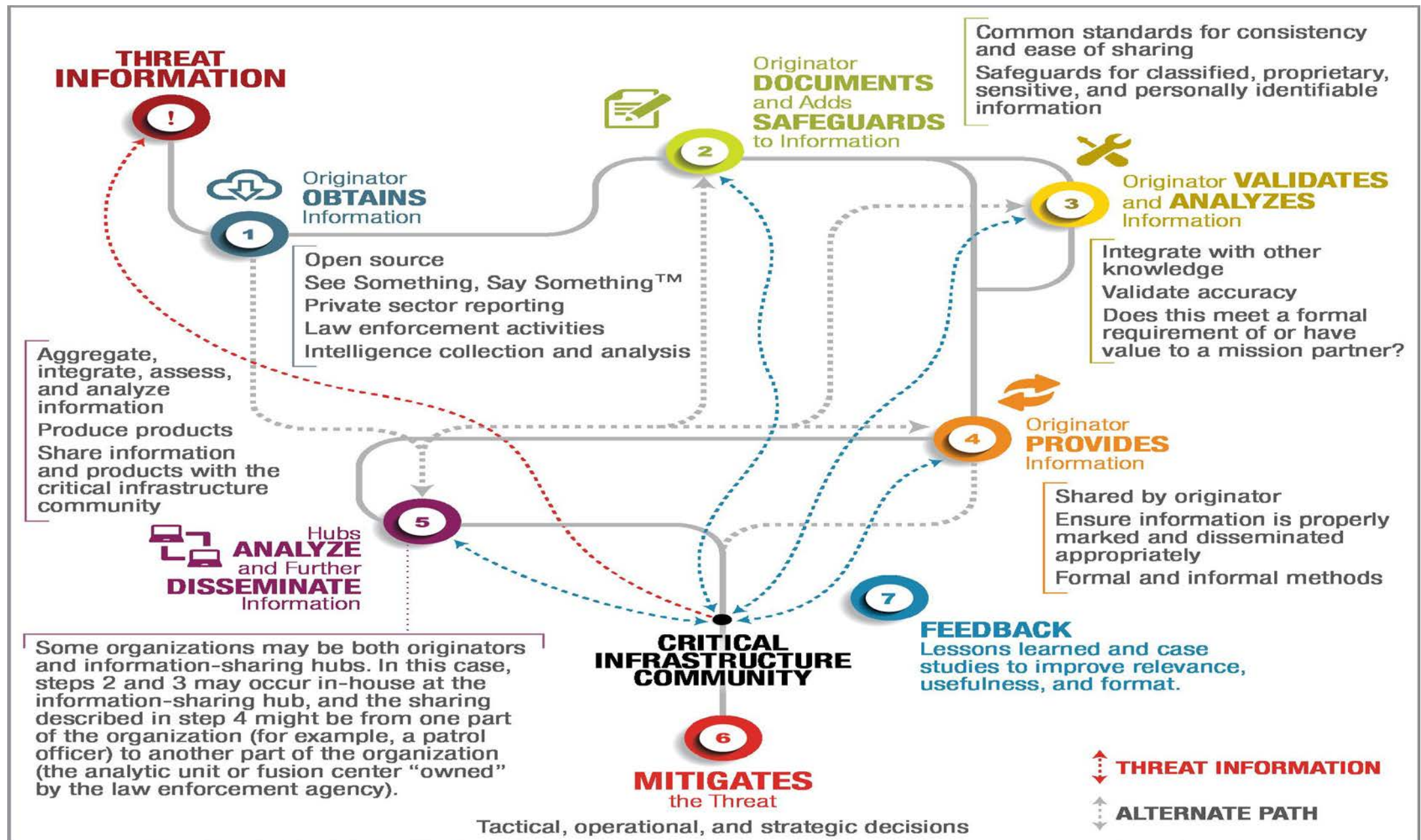
“...describe the current processes used to facilitate the flow of threat information between and among all entities involved in the critical infrastructure security and resilience mission, and provide an overview of the key threat information-sharing entities which facilitate this process.”

“...limited to threat information sharing pertaining to manmade threats, including both cyber and physical threats, to critical infrastructure.”

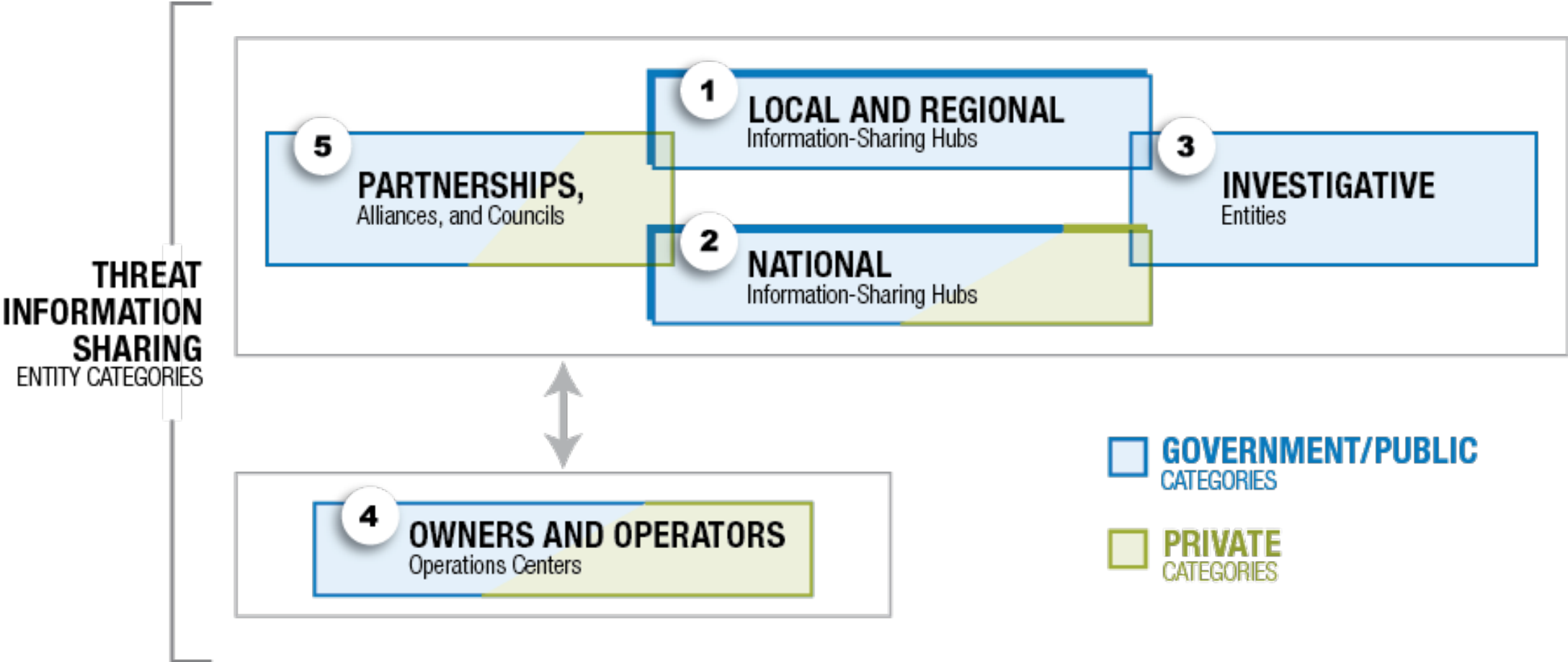
Approach



How Threat Information Sharing Is Done



Key Threat Information Sharing Entities



1

LOCAL AND REGIONAL

Information-Sharing Hubs

EOCs

State or city emergency operations centers (EOCs) receive and pass on threat information and suspicious activity reports (SARs)

FBI Field Offices**Fusion Centers**

State and major urban area fusion centers

ISAOs

Information Sharing and Analysis Organizations

Law Enforcement

Local, regional, and State law enforcement

Regional Networks

Regional Cybersecurity Information-Sharing Networks

2

NATIONAL

Information-Sharing Hubs

Hubs that **DIRECTLY INTERACT** with critical infrastructure owners/operators and the private sector

FBI HQ

Federal Bureau of Investigation Headquarters Elements

NCCIC

National Cybersecurity and Communications Integration Center

NICC

National Infrastructure Coordinating Center

ISACs

Information Sharing and Analysis Centers

ISAOs

Information Sharing and Analysis Organizations

Sector-Specific Ops Centers

Various Federal Agencies

See Appendix A for more

Hubs that **DO NOT DIRECTLY INTERACT** with owners/operators and the private sector, **BUT HAVE A ROLE** within the critical infrastructure security and resilience mission space

CMC

DOT Crisis Management Center

JCAT

Joint Counterterrorism Assessment Team

NCTC

National Counterterrorism Center

NMCC

DOD National Military Command Center

SIOC

FBI Strategic Information Operations Center

TSC

FBI Terrorist Screening Center

3

INVESTIGATIVE

Entities

FBI Cyber
Task Forces**FBI Field**
Offices**JTTFs**
Joint Terrorism
Task Forces**Law Enforcement**
Federal and SLTT**NCCIC**
National Cybersecurity and
Communications Integration Center

5

PARTNERSHIPS,

Alliances, and Councils

SECTOR-SPECIFIC**SCCs and GCCs**
Sector Coordinating Councils and
Government Coordinating Councils**USCG**
United States Coast Guard
Area Maritime Security Committees (AMSC) and
Waves on the Waterfront (WOW) Newsletter**CROSS-SECTOR**

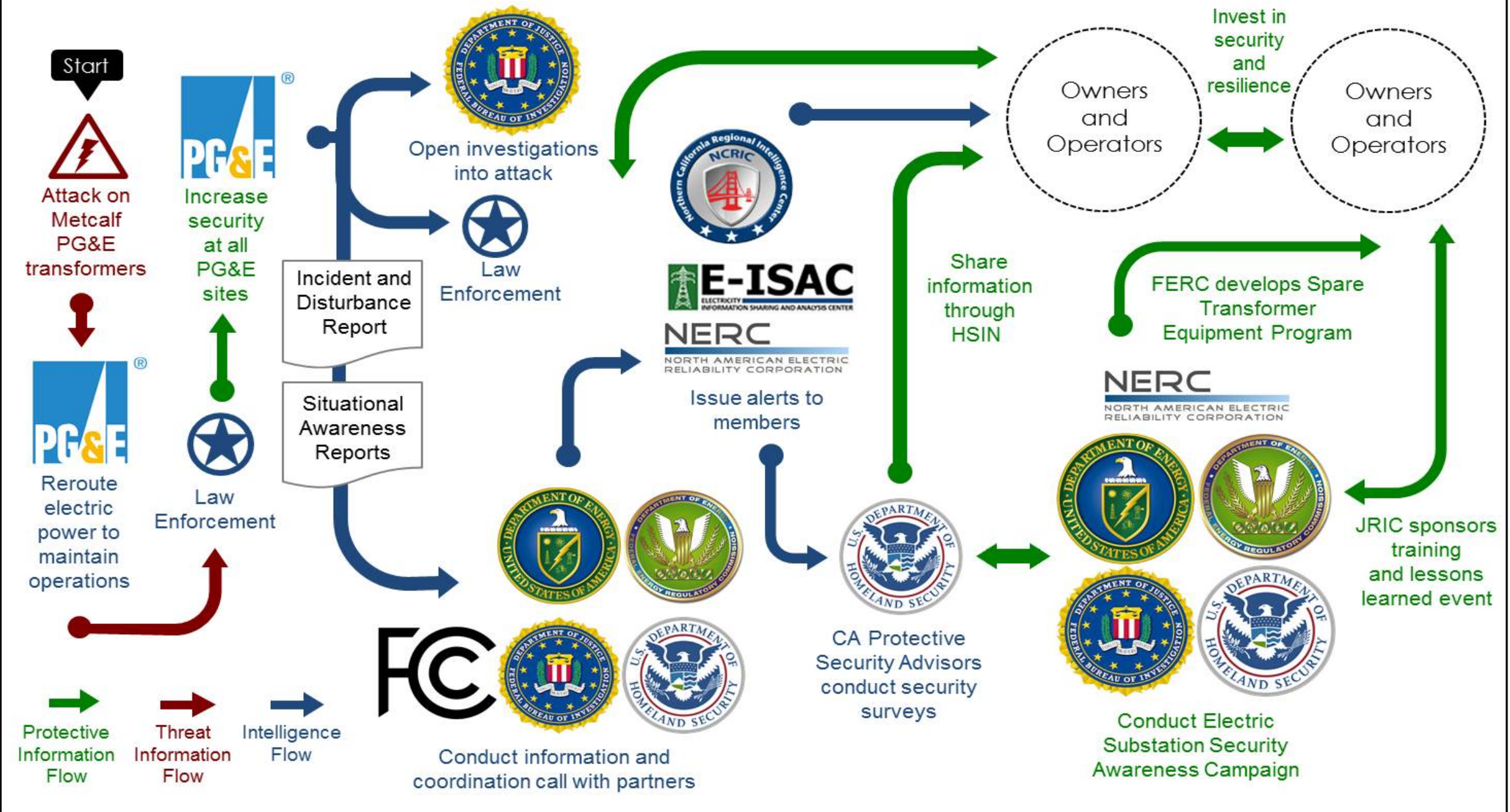
Domestic

International

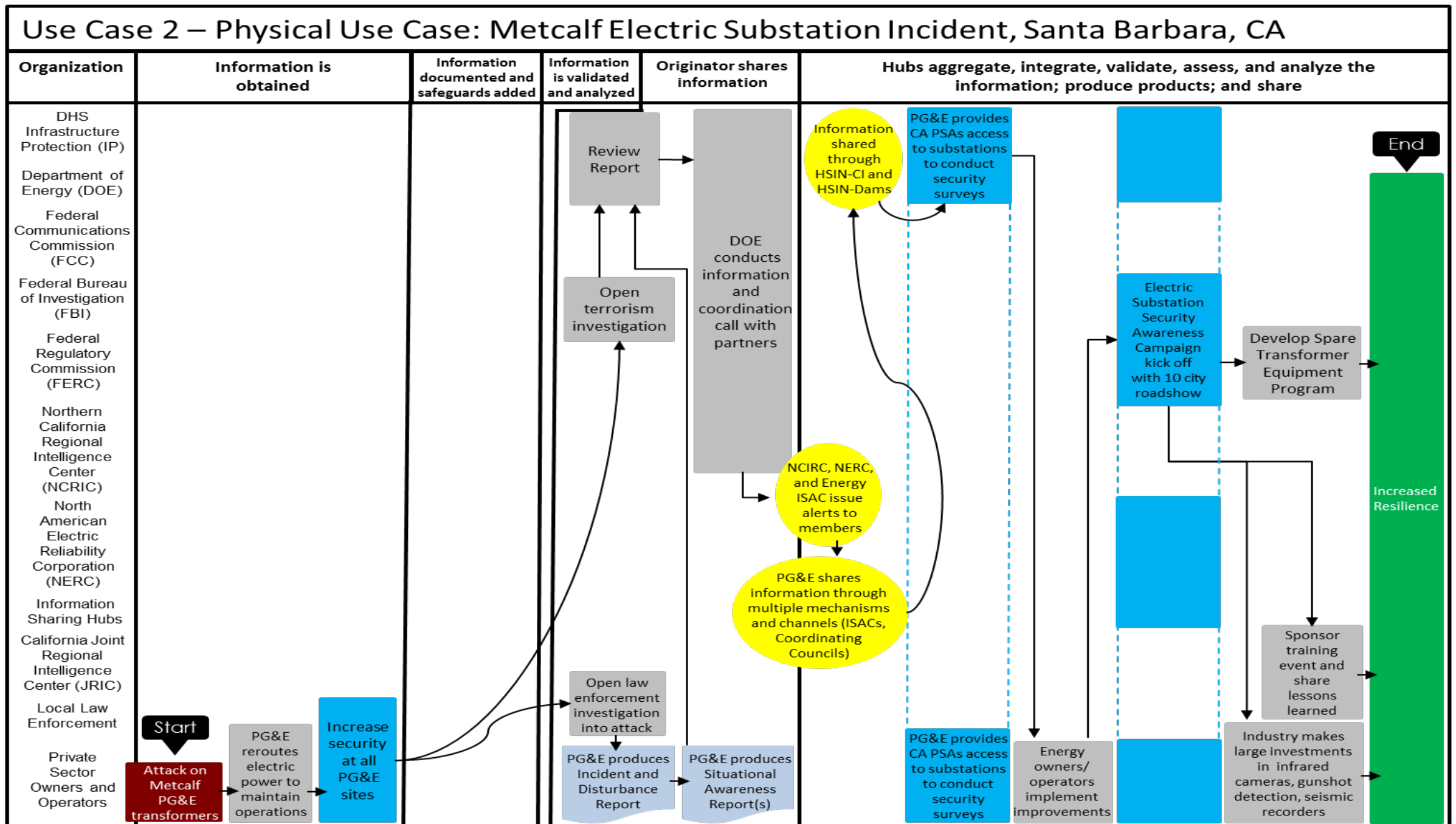
CIPAC
Critical Infrastructure
Partnership Advisory
Council**Critical Infrastructure**
Cross-Sector Council
The combined Federal, SLTT,
and private sector councils**DSAC**
The Domestic Security
Alliance Council**FLSC**
Federal Leadership
Senior Council**InfraGard****SLTTGCC**
State, Local,
Tribal, and Territorial
Government
Coordinating Council**OSAC**
Overseas
Security
Advisory
Committee**REGIONAL AND LOCAL****RC3**
Regional Consortium
Coordinating Council

Case Studies

Use Case 2 - Cyber and Physical Nexus Use Case: Metcalf Incident, Santa Barbara, CA

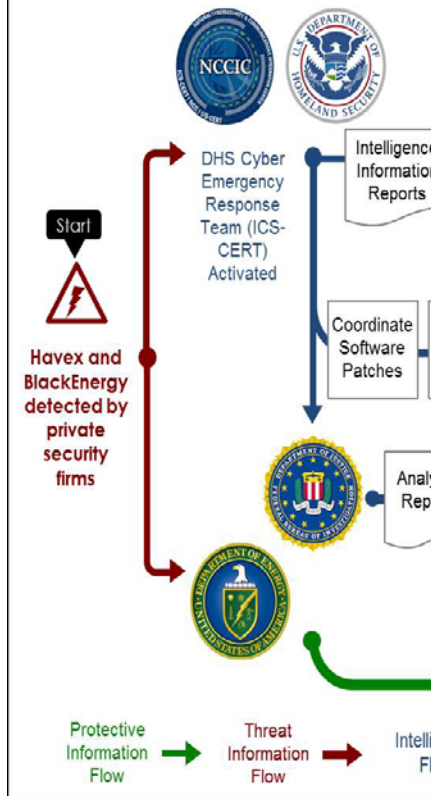


Information Flow Maps

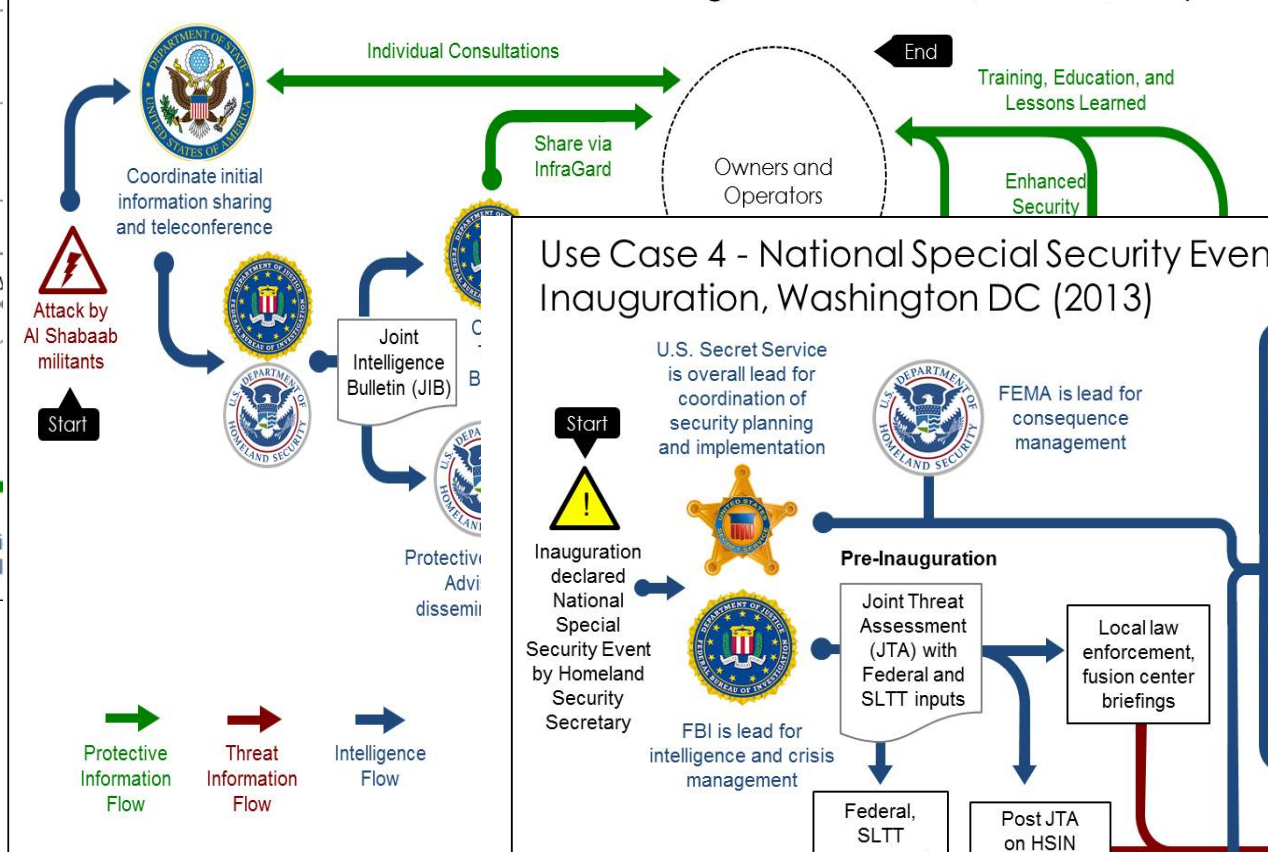


Additional Case Studies

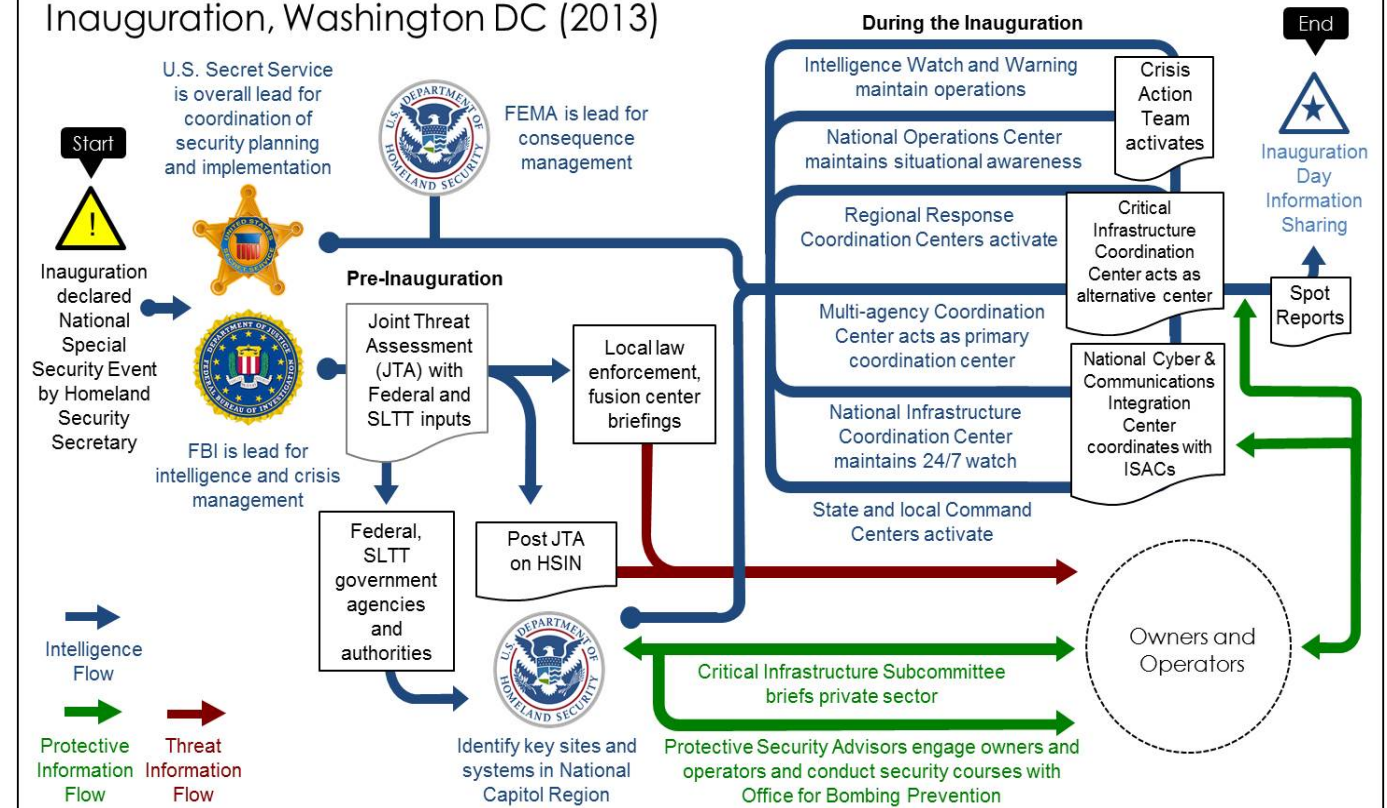
Use Case 1 - Cyber Use Case: Havex and BlackEnergy Malware



Use Case 3 - International Use Case: Westgate Mall Attack, Nairobi, Kenya



Use Case 4 - National Special Security Event (NSSE) Use Case: Presidential Inauguration, Washington DC (2013)



Some Observations

Role of informal networks

Balance between too much and not enough is difficult

ISAO EO is very helpful...needs to include all hazards

Challenge of classified information

Disconnect between physical and cyber security staff

Questions?

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Director, Strategy and Policy Programs

DHS/NPPD/Office of Infrastructure Protection

Brian.scully1@hq.dhs.gov

Find the Framework online:

<https://www.dhs.gov/publication/ci-threat-info-sharing-framework>

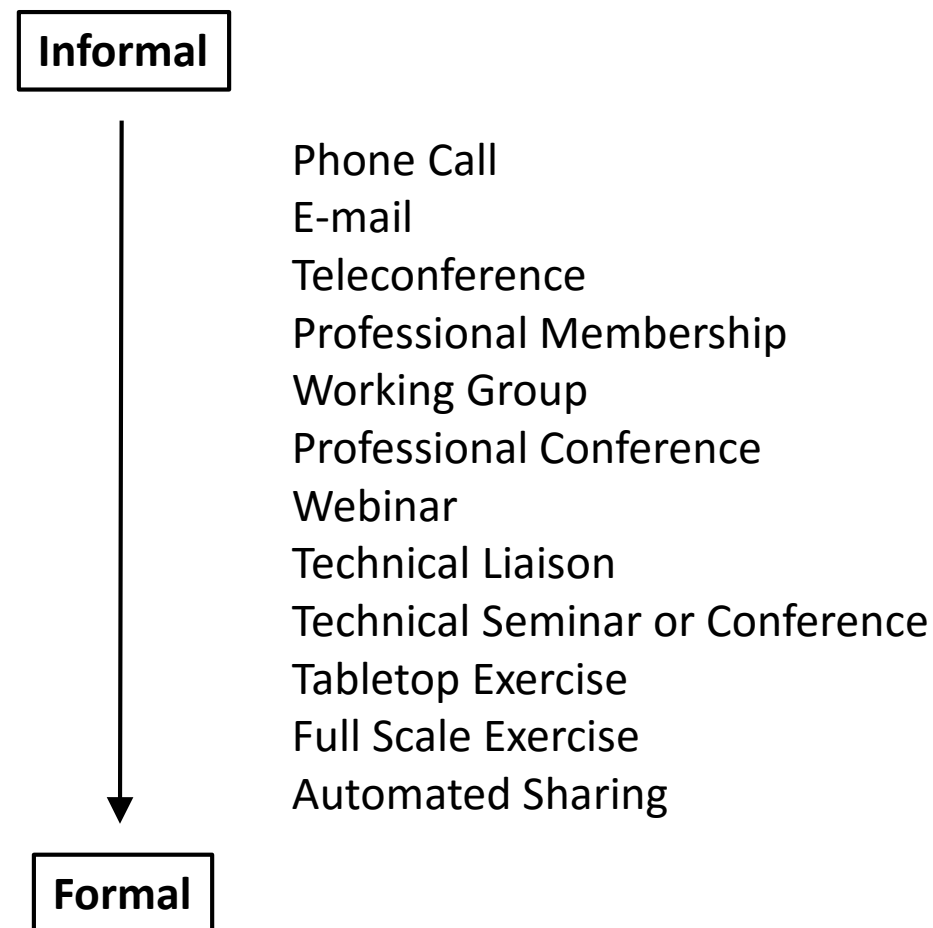


Homeland Security

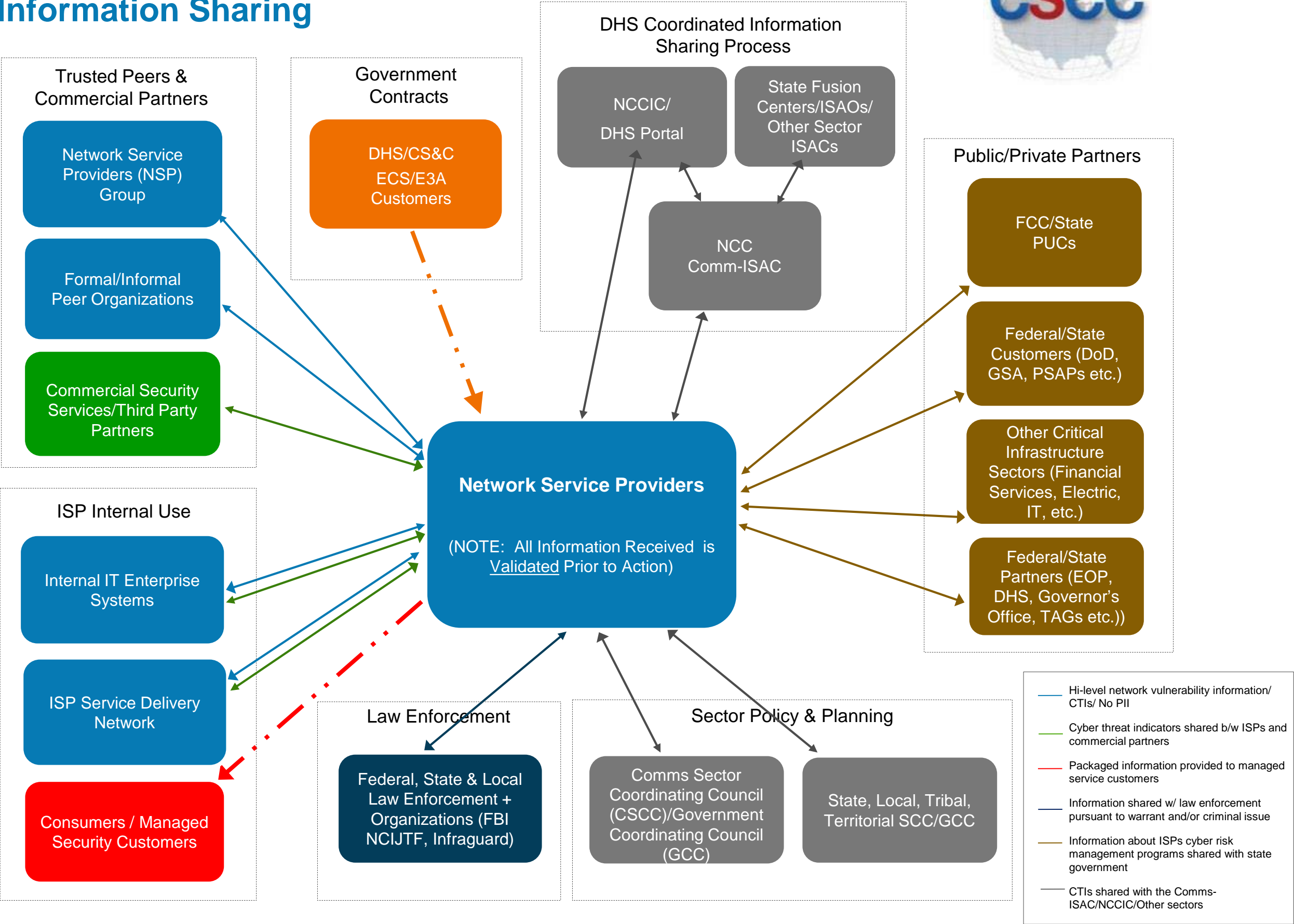
Communications Sector Information Sharing

- Information Sharing is not new to Communication Service Providers
- Information Sharing by network service providers is deep and systemic, but not fully recognized.
 - Current Efforts to Characterize and Catalogue major Venues/Opportunities for Info-Sharing
 - CSRIC V – Working Group 5 Information Sharing
 - <https://www.fcc.gov/about-fcc/advisory-committees/communications-security-reliability-and-interoperability>
- Primary Venue for Collaboration and Information Sharing:
 - DHS National Coordinating Center / Communications Information Sharing and Analysis Center (ISAC)
 - Public/Private Coordination Point for Physical AND Cyber Events

Info-Sharing Modalities

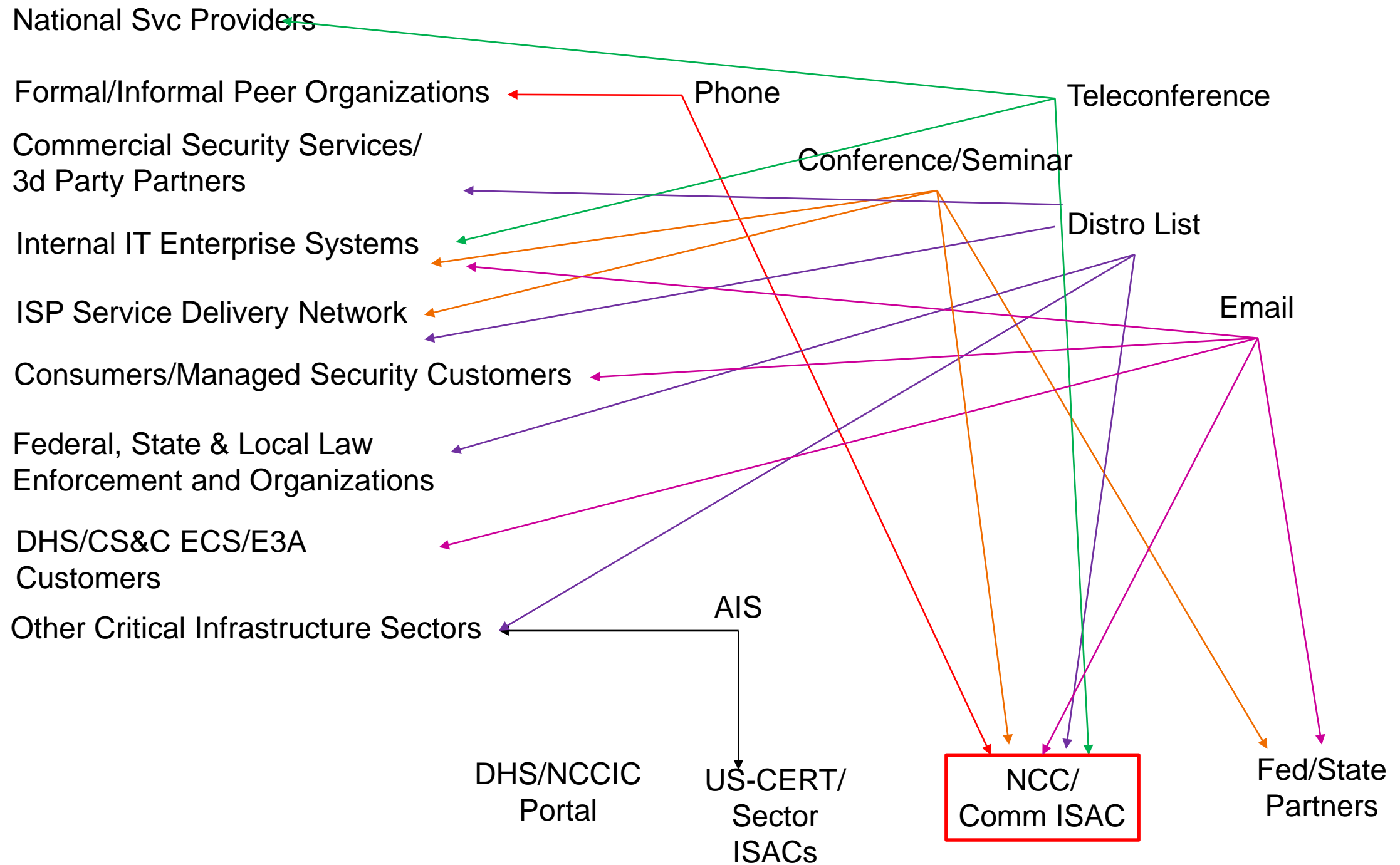


Notional Diagram Communications Sector Information Sharing





Information Sharing Matrix





Moving Forward – Continuous Improvement

- Information Sharing & Analysis Organizations (ISAOs)
- Network Service Provider Refinements
- Automated Indicator Sharing Initiatives
- International Collaboration