

# Infrastructure Dependencies: The Big Rocks Panel - Private Sector Perspective

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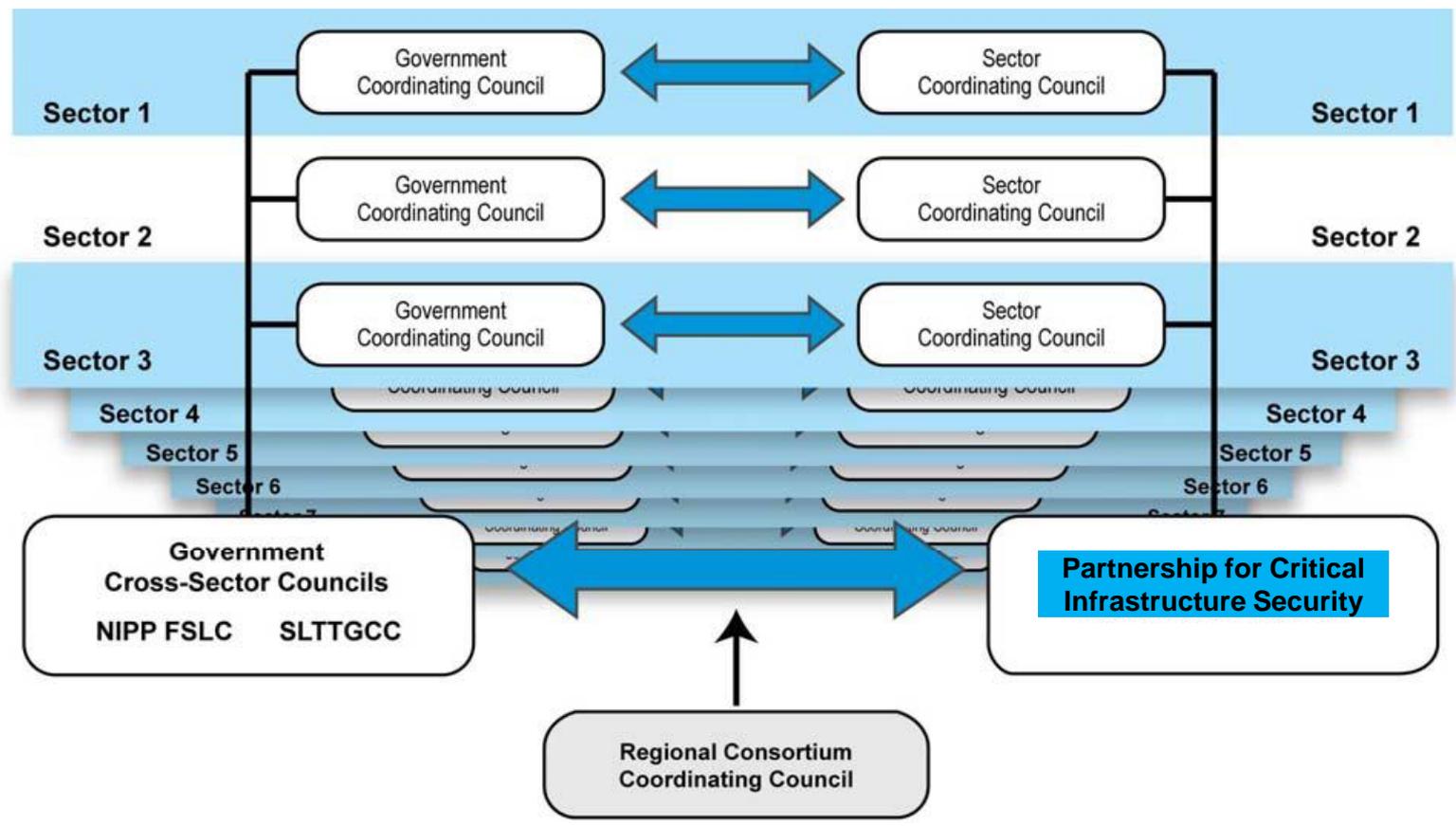




# Sector Partnership Model

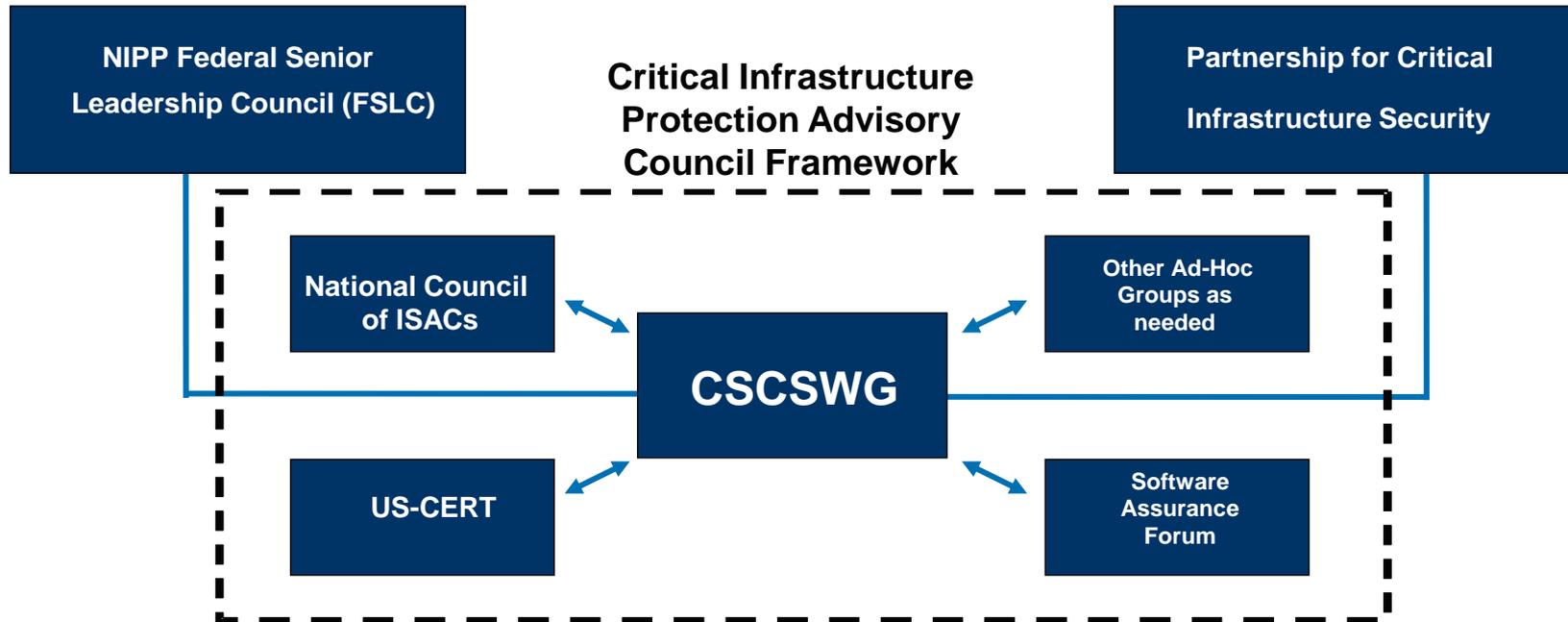
## National Infrastructure Protection Plan (NIPP)

### Critical Infrastructure Partnership Advisory Council (CIPAC)





# Cross-Sector Cyber Security Working Group CIPAC Framework and Liaison Groups



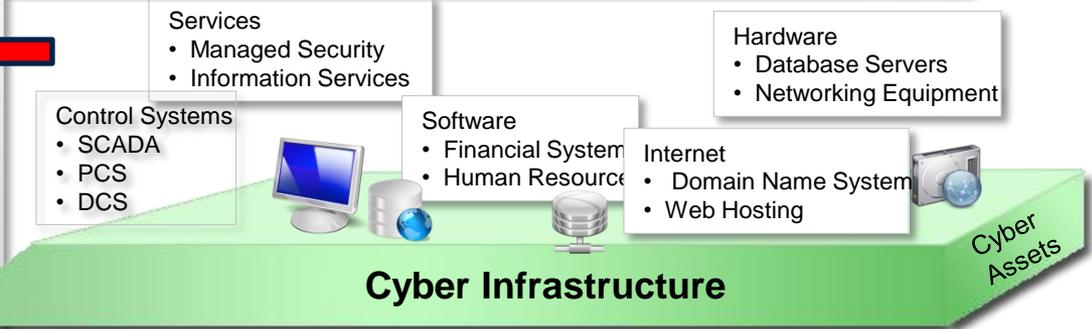


# Dependencies on technology are greater then ever

- Possibility of disruption is greater than ever because hardware/software/people are vulnerable
- Economic disruption as serious as physical
- Loss of confidence alone can lead to stakeholder actions that disrupt critical business activities



Internet users in the world: 1,766,727,004  
 E-mail messages sent today: 215, 674, 475, 422  
 Blog Posts Today: 458, 972  
 Google searches Today: 2,302,204,936



<b>Who is behind data breaches?</b>	<p>74% resulted from external sources (+1%).</p> <p>20% were caused by insiders (+2%).</p> <p>32% implicated business partners (-7%).</p> <p>39% involved multiple parties (+9%).</p>
<b>How do breaches occur?</b>	<p>7% were aided by significant errors (&lt;&gt;).</p> <p>64% resulted from hacking (+5%).</p> <p>38% utilized malware (+7%).</p> <p>22% involved privilege misuse (+7%).</p> <p>9% occurred via physical attacks (+7%).</p>

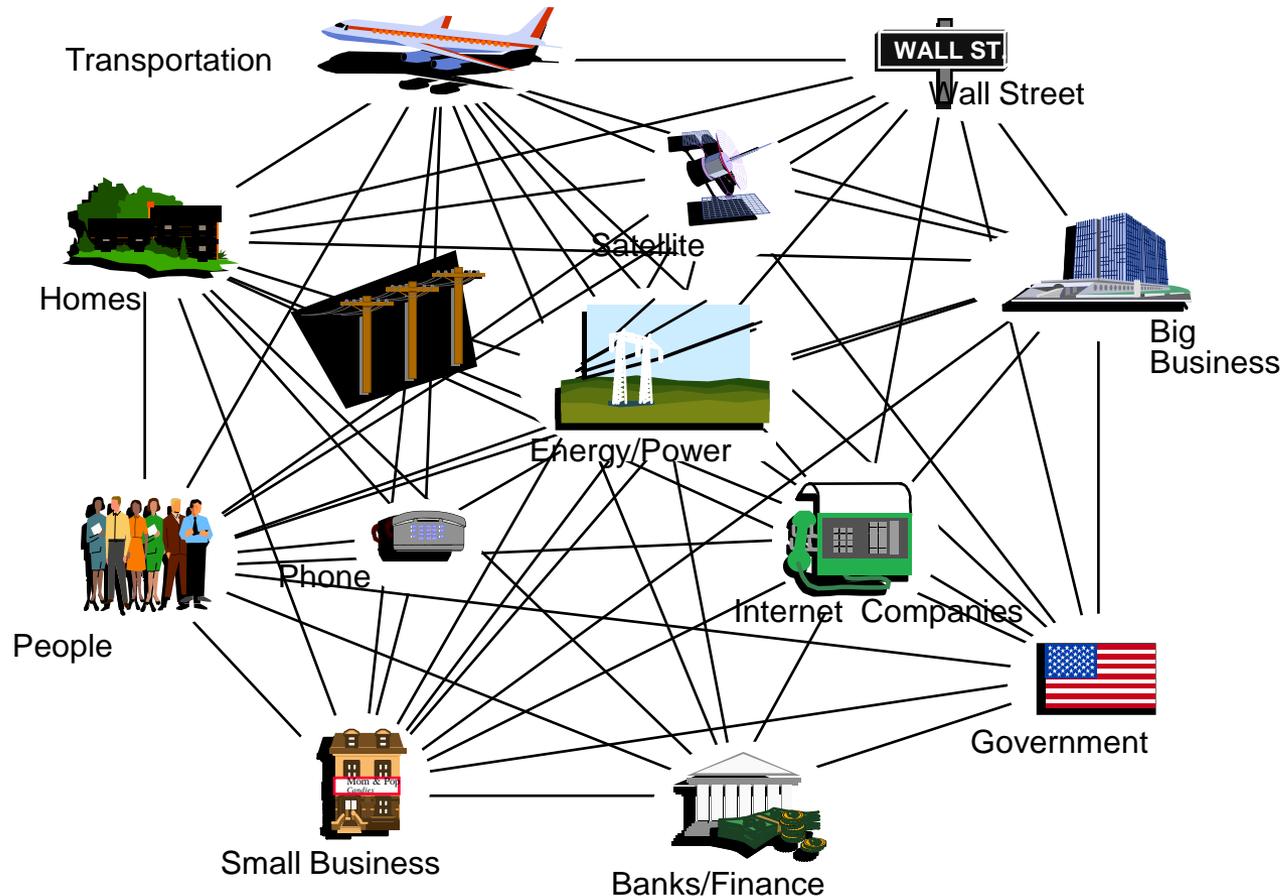
\* Source – 2009 Verizon Data Breach Investigations Report

credit to Don Davidson, DoD



# Private Sector Impact:

*Interdependenciencies among infrastructures make a problem in one infrastructure a problem for all.*





## Conclusions – We Have Known For Years Now

- National risk is growing, especially with asymmetric threats and increasing reliance on information & communications infrastructure
- Public confidence in infrastructures is critical
- Risk is shared among public & private interests
- **New Thinking Required**

**Partnership is the Foundation for  
Critical Infrastructure Security**



## Partnership Principles

- **Partnership must be voluntary**
- **Trust among partners is essential**
- **Working members must be personally responsible and accountable for their trusted behavior**
- **Objectives must be clearly defined and embody common goals**
- **Internal support and trust within each partner must exist**
- **Institutionalized process is important to provide lasting benefit**
- **Build on existing organizations first**
- **Working members of the partnership should frequently interact**
- **Partnership needs to be an evolving relationship**
- **Legal and liability issues can be powerful tools for aligning interests of the partners**
- **Partnership needs champions and institutional support**



## **Successes and Challenges – a few examples**

- **National Infrastructure Protection Plan**
  - Sectors, Sector Specific Plans and Risk Assessments
- **National Level Exercises and Cyber Storm Exercises – joint**
- **Sharing through PCIS, National Council of ISACs, CSCSWG**
- **Private Sector Seats in NCCIC**
- **Cybersecurity is a Policy Concern and Priority**
  - U.S. Senate: Lieberman-Collins, Rockefeller-Snow, Reid
  - Administration Legislation Proposal
  - International Strategy for Cyberspace
- **Rapid Adoption of Cloud Computing**
  - See [http://assets1.csc.com/lef/downloads/Digital\\_Trust\\_in\\_the\\_Cloud.pdf](http://assets1.csc.com/lef/downloads/Digital_Trust_in_the_Cloud.pdf)
- **National Broadband Plan and Public Safety**
- **Supply Chain and other international issues**
- **Telecom Energy Alliance Working Group**



There are numerous successes  
and there remain numerous  
challenges!

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See <http://www.csc.com/security/> and  
[http://www.csc.com/communications media and entertainment/](http://www.csc.com/communications_media_and_entertainment/)