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*President's  
Commission  
On  
Critical  
Infrastructure  
Protection*



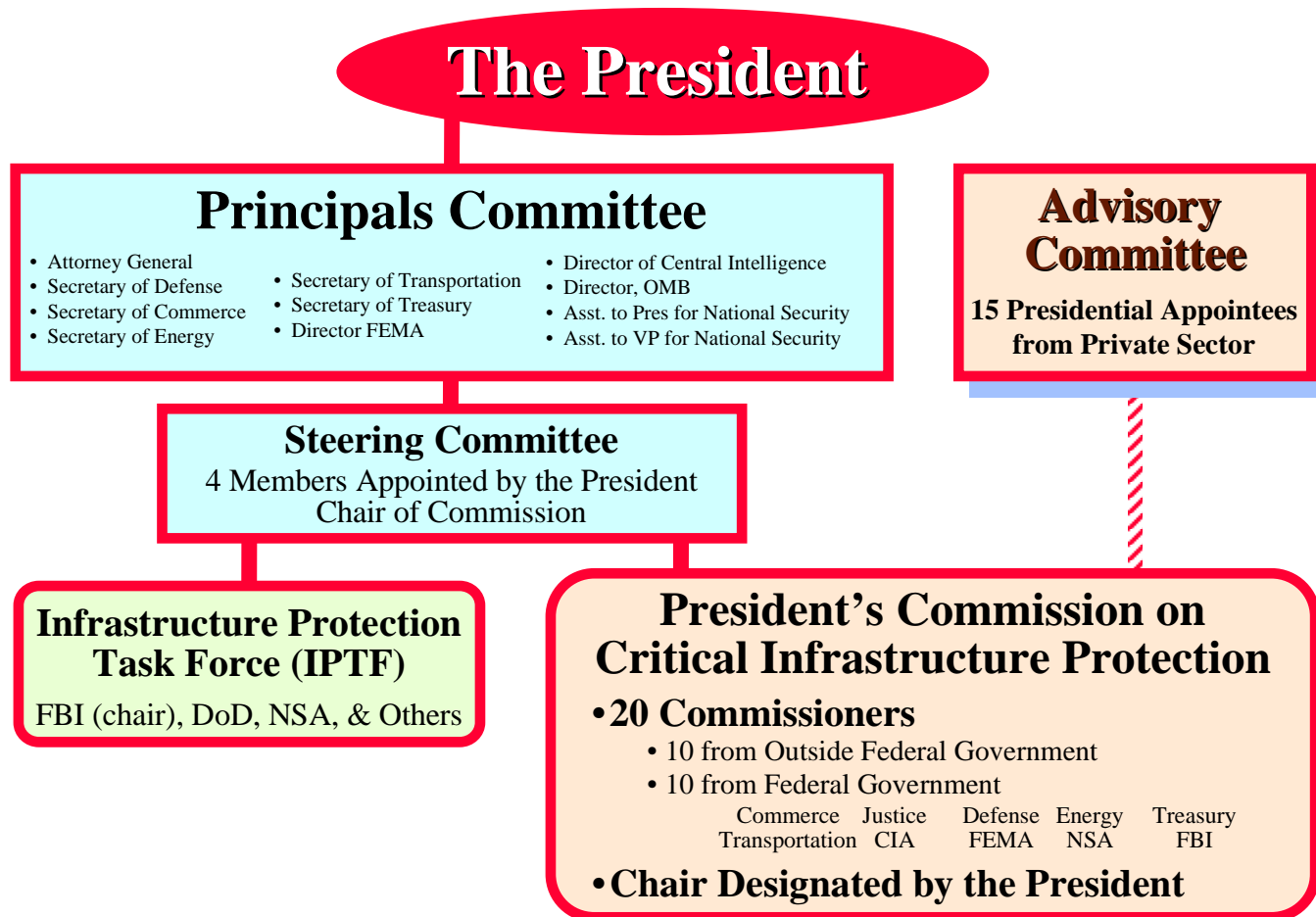
**David Jones  
Commissioner**

<http://www.pccip.gov>

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# Structure from the Executive Order





# Identified Infrastructures

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- Telecommunications
- Electric Power
- Oil & Gas
- Transportation & Storage
- Transportation
- Banking & Finance
- Water
- Emergency Services
- Continuity of Government Services



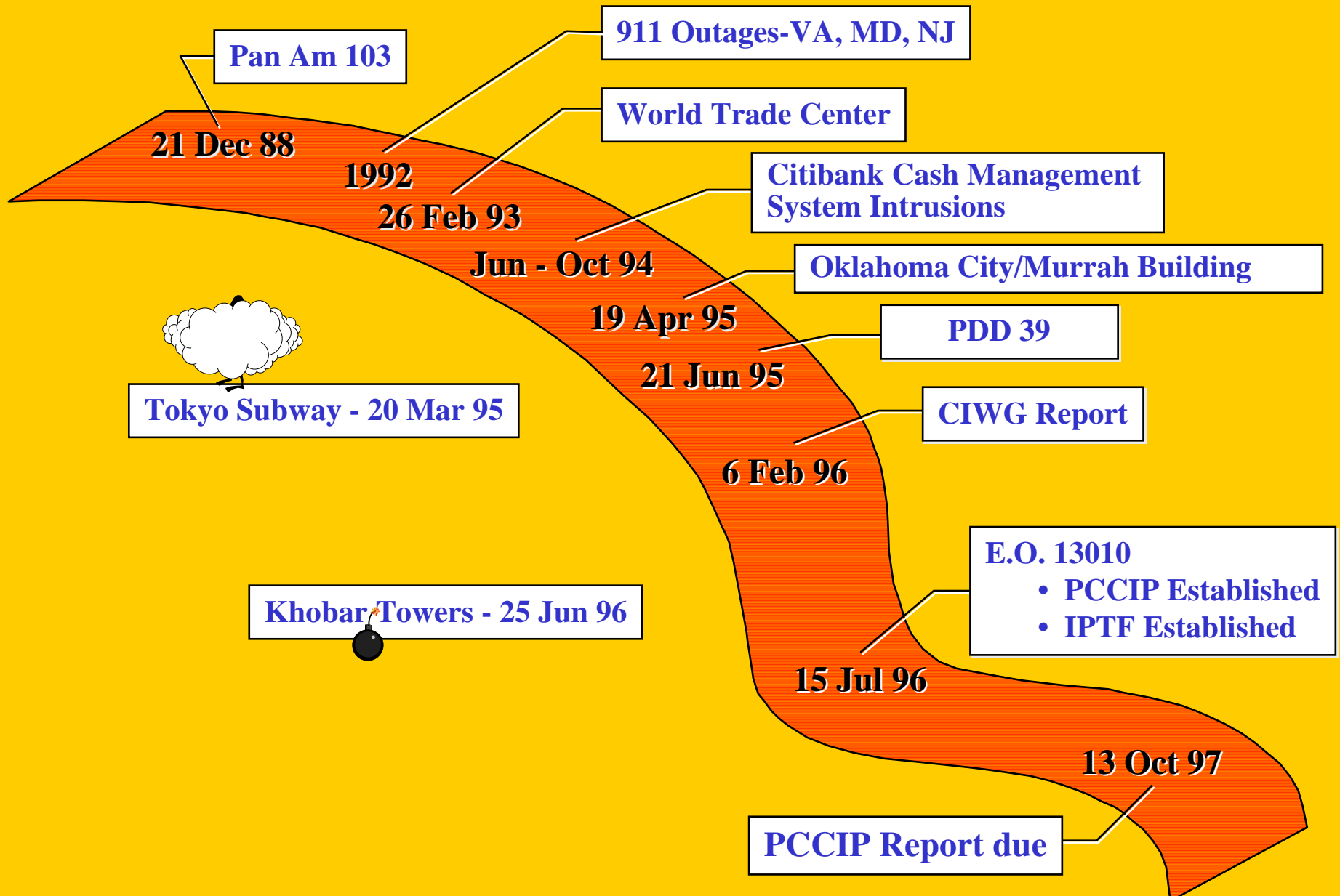
# *Mission*

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## **Recommend Comprehensive National Policy and Implementation Plan For Protecting Critical National Infrastructures**

- ★ **Identify & Consult With Stakeholders**
- ★ **Assess Scope and Nature of Threats & Vulnerabilities**
- ★ **Determine Legal and Policy Issues**
- ★ **Propose Statutory or Regulatory Changes  
to Effect Recommendations**

# Commission Origins





# Some Core Questions

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- How vulnerable are our infrastructures?
- What are the threats and risks?
- Are debilitating infrastructure outages plausible?
- “The Country Must Defend Against the Ultimate Weapon - The Electron” John Deutsch. Are we in another Arms Race?
- Could a combined physical and cyber attack bring the Nation to its knees?



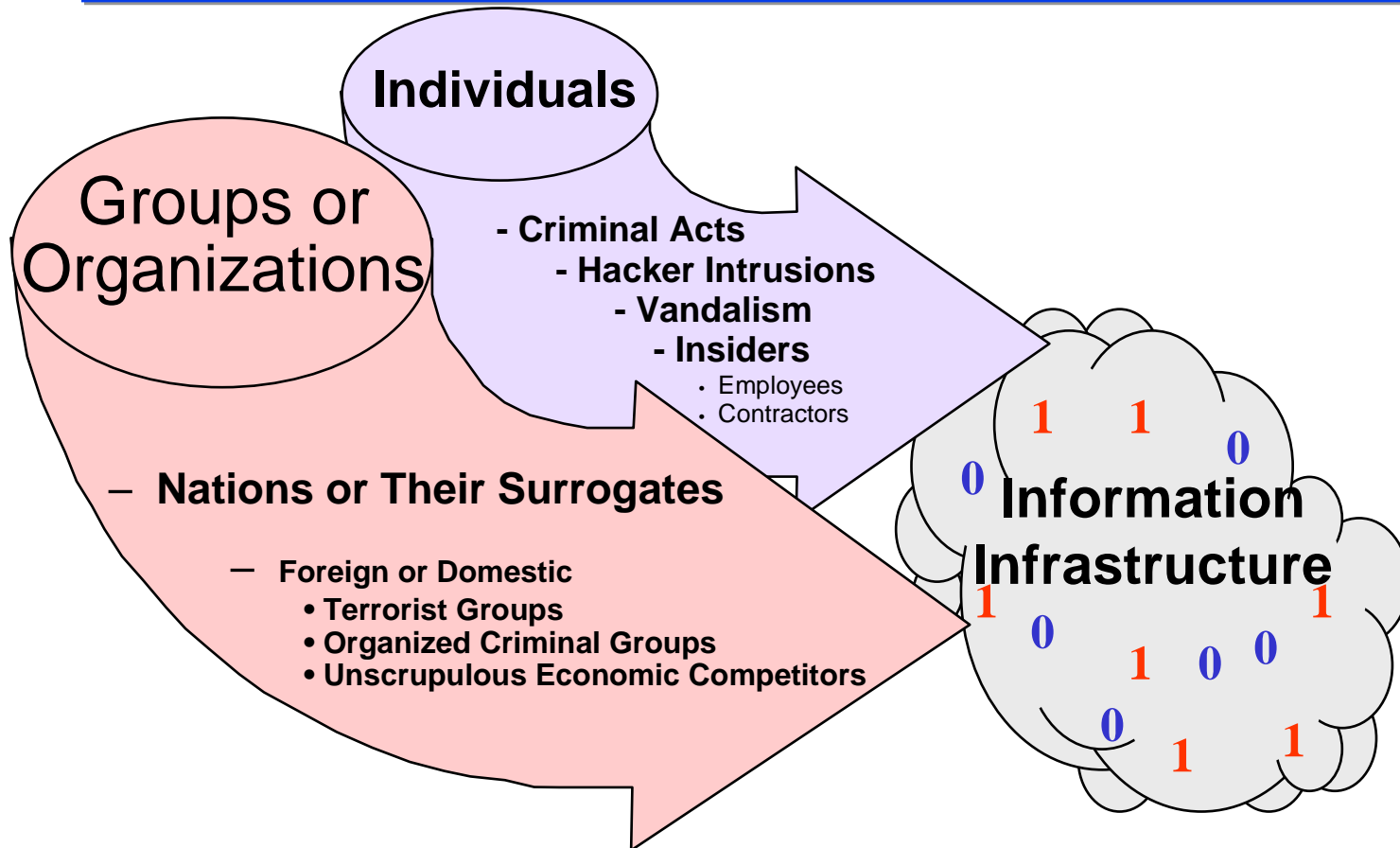
# Some Core Questions (Cont'd)

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- Do We Know IF We are Under Attack?
- If We are Under Attack, How Do We Know Who is Attacking Us?
- Who is in charge? Who has what responsibilities?
- What is our response?
- What are the legal impediments?
- Can a trusted environment be established to share information?
- Are the owners and operators aware of the extent of threats and vulnerabilities?
- What technology improvements are needed?

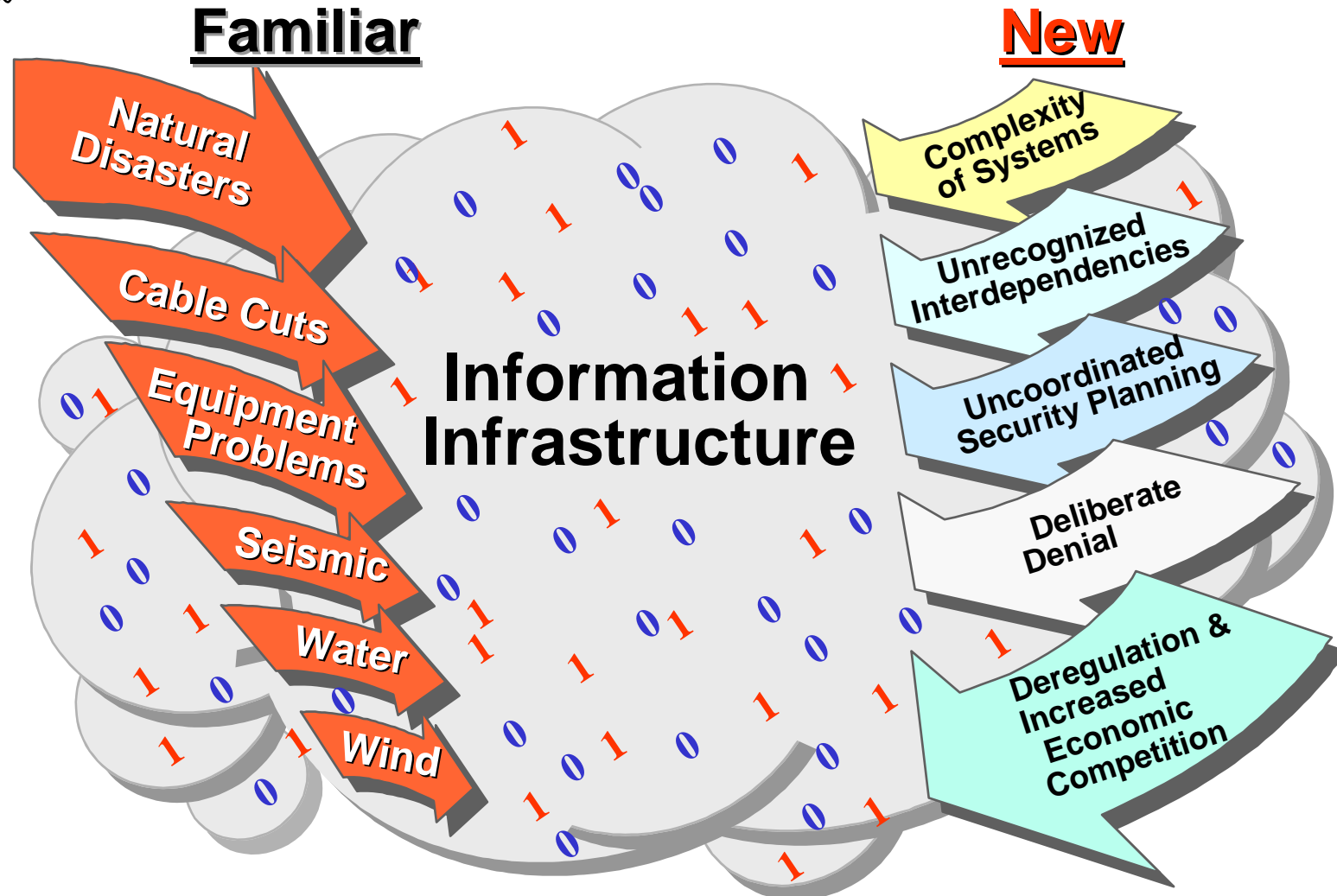


# Potential Cyber Threats

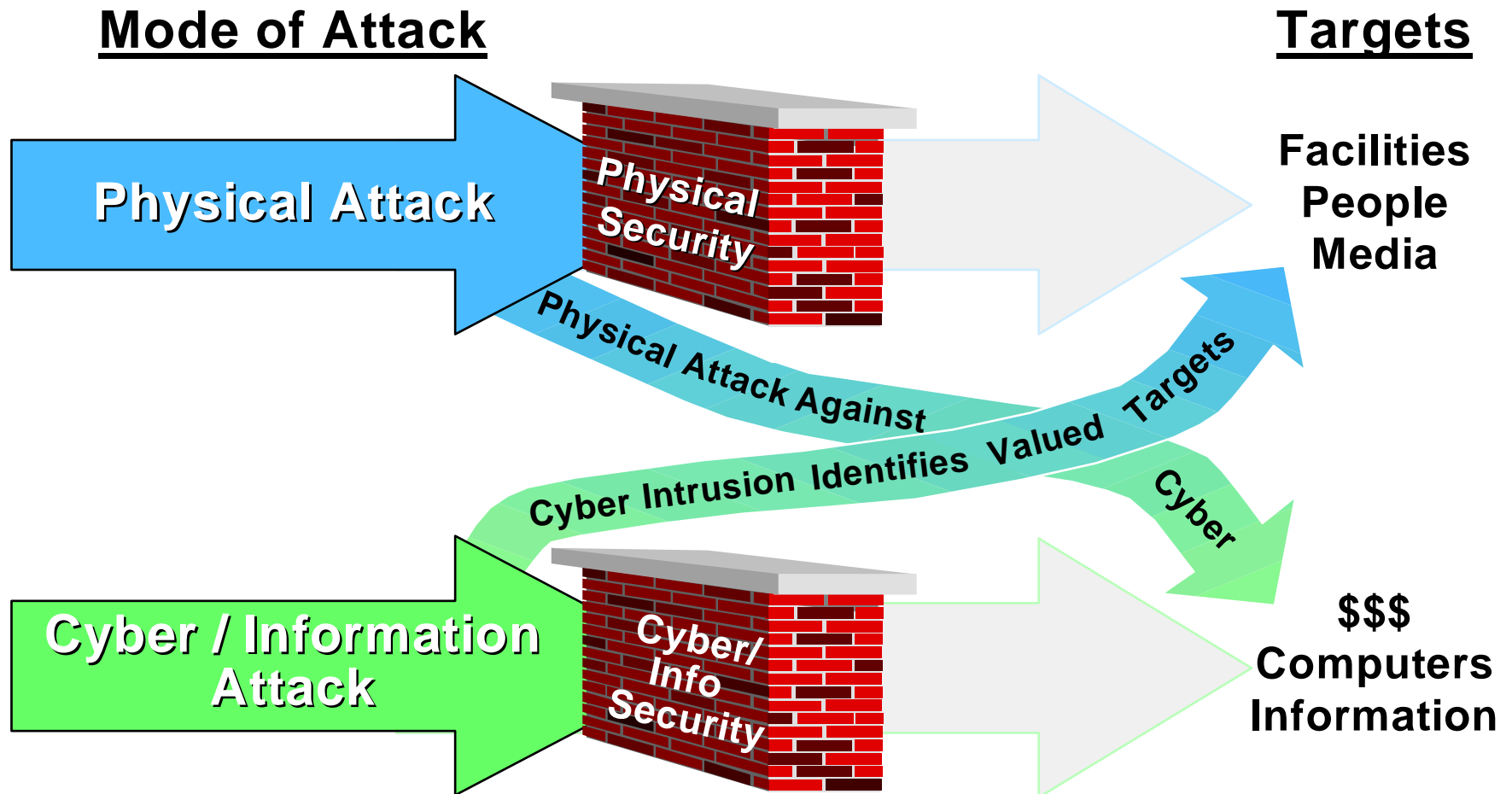




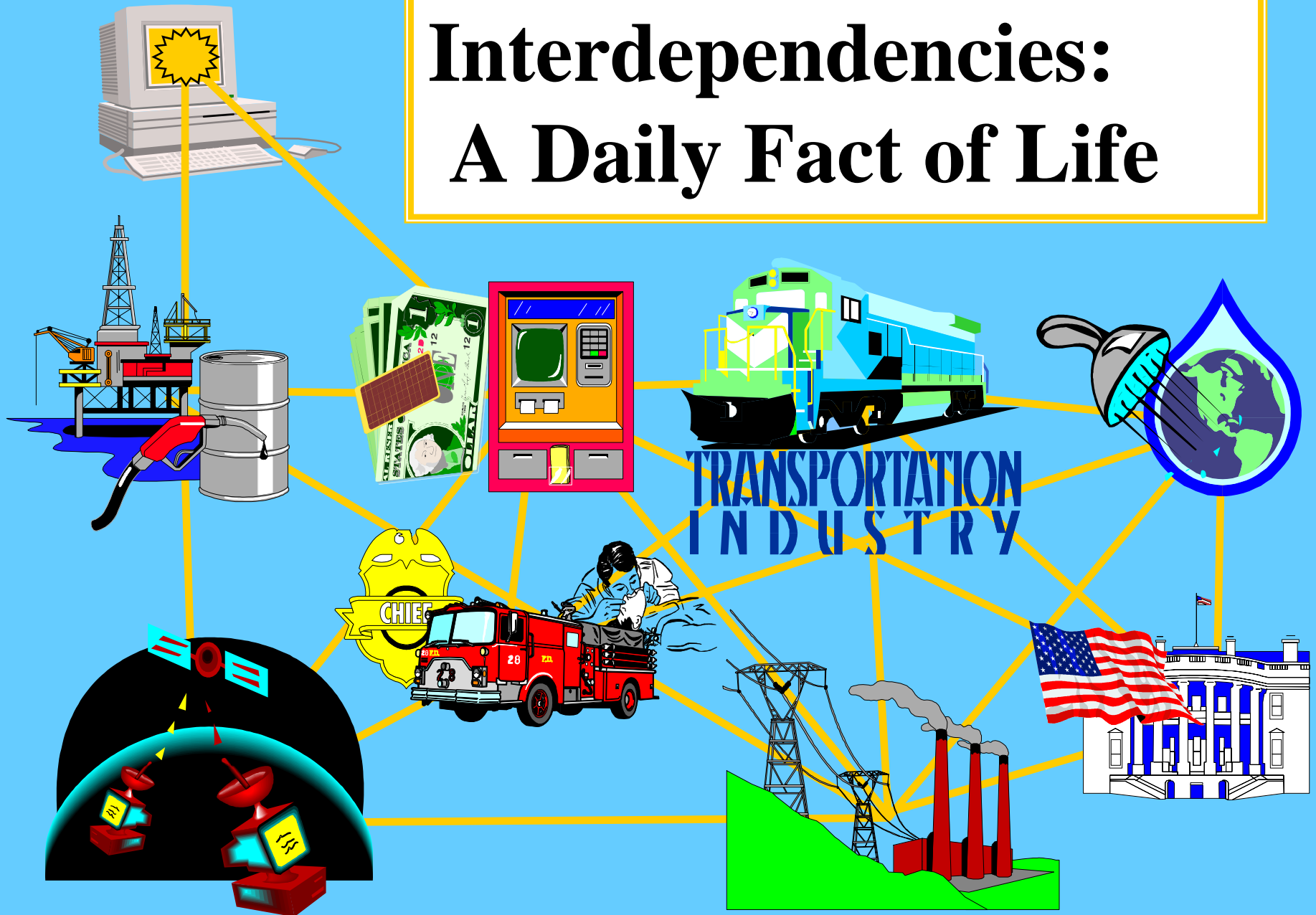
# Other Potential Sources of Risk



# Interdependencies: New Risks and Vulnerabilities



# Interdependencies: A Daily Fact of Life





# Information Stovepipes

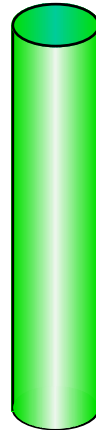
## Collectors

Intelligence  
Community



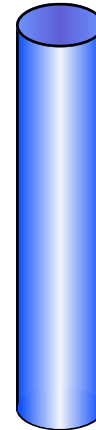
Defense

Law  
Enforcement



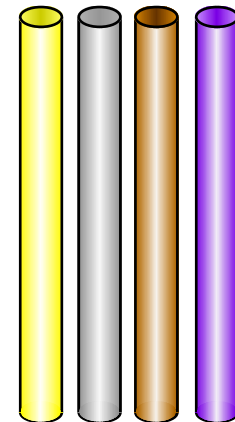
Criminal  
Justice System

Companies  
& Trade  
Associations



Industry

Others  
Media  
Legislative Bodies  
Academia



General Public  
& Others

## Users



# Next Steps

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## Development of Issues

- Information Sharing
- Risk Management Models
- Economics
- R&D
- Role of Government
- National Structures
- International Dimension
- Incentives for Investment
- Role of Insurance
- Assurance Standards
- Deregulation
- Education & Awareness



**“Technology Is Both a Large Part of the Problem and an Important Part of the Solution”**



# Ultimate Cyber Security Goal

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Transparent Security Designed Into the Hardware and Software (Operating Systems, Network Protocols, Application Software, Etc.) That Assures Confidentiality, Integrity and Availability Without Impacting Operational Efficiency



# Commission Technologies and Capabilities Survey

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- **The Commission is in the Process of Collecting Into a Database Information on Technologies and Capabilities Available to Meet Diverse Infrastructure Assurance Needs:**
  - Initial Survey Already Conducted of DOE National Laboratories
  - Now Being Extended to Industry and Other Private Sector Organizations
  - For Interested Participants E-Mail Template is Available to Facilitate Incorporation of Information Into the Database.
  - The Address is: [jgillette@anl.gov](mailto:jgillette@anl.gov)



# Information

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**For further information or to provide  
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