

# The Link Between Battlefields & Borders

# Terrorists intent...



**Bring the  
battle here**



# USA Critical Infrastructure

- 1,912,000 farms
- 1,800 water reservoirs
- 1,00 municipal waste water facilities
- 5,800 registered hospitals
- 87,000 emergency service entities
- 2 billion miles of telecomm cable
- 2,800 electric power plants
- 104 commercial nuclear power plants
- 300,000 oil and natural gas sites
- 5,000 public airports
- 120,000 miles of railroads
- 590,000 highway bridges
- 2,000,000 miles of pipelines
- 500 urban public transit systems
- 26,600 banks and financial institutions
- 66,000 chemical plants
- 80,000 dams
- 3,000 federal government facilities
- 460 sky scrapers

# HSPD-24



# HSPD-24 Challenges: Unanticipated Consequences

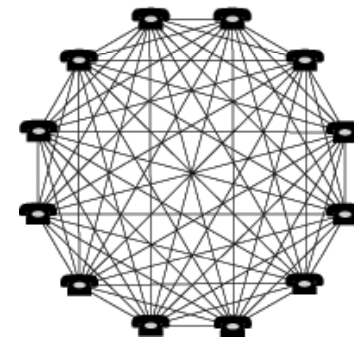
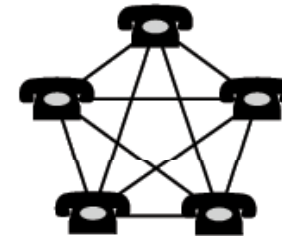
- Networks of Networks
- Quantum leaps of technologies vs procurement
- Civil Law Enforcement jurisdictions
- Civilian adoption of biometrics for identity, physical and financial security
- Emerging Social/Legal Concepts
  - Deny Malicious Anonymity
  - Insure Privacy
  - Protect Rights

# A Biometric Network

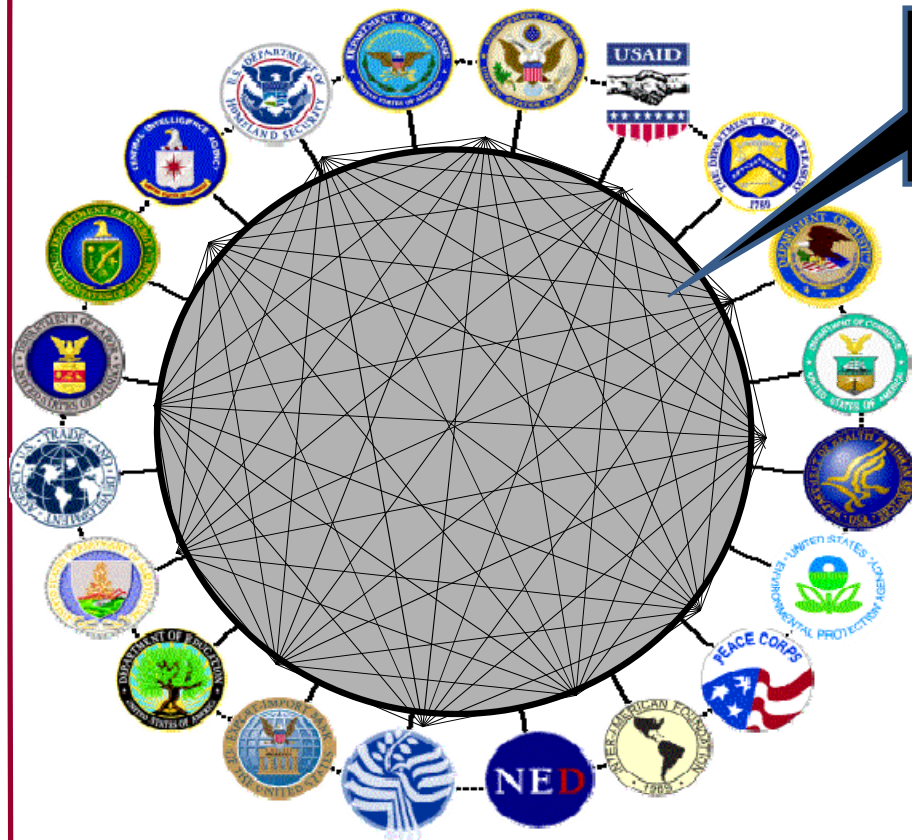
A Single Network of Point to Point



*Metcalfe Law:*  
 $n(n - 1)/2$

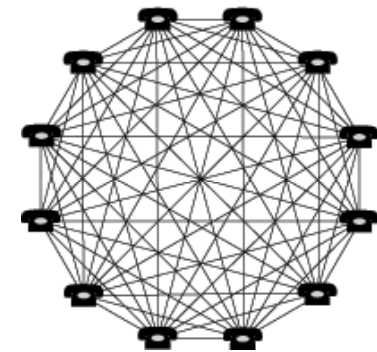
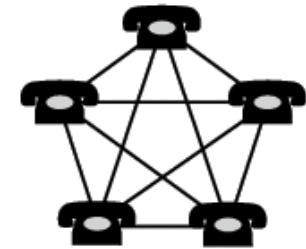


# HSPD-24: A Network of Networks



And that is just between agencies!!!!

190 Links



Metcalfe Law:  $n(n - 1)/2$

# Technology Leaps, Bureaucratic Procurement Lags

- **Moore's Law:** "...processing speed, memory capacity, even the resolution of LCD screens and digital cameras (are) doubling approximately every two years"
- **US Government Procurement: Planning Programming Budgeting & Execution System (PPBS)** "PPBS imposed financial discipline, integrated the information necessary to develop effective programs to address existing and emerging needs, and established a disciplined review and approval process. However, DoD's processes for strategic planning, identifying needs for military capabilities, developing and acquiring systems, and developing programs and budgets continued to exist as disparate systems. The strategic planning process did not explicitly drive the identification of needs for military capabilities. Also, the program and budget development processes, while imposing fiscal discipline, often have failed to integrate strategic decisions into a coherent defense program. In addition, more time was being spent on deciding how much to spend on a program rather than evaluating what was received for the investment. In 2003, Defense Planning Guidance (DPG) tasked the Senior Executive Council to lead a study and identify improvements that could be made to DoD decision-making and budgeting process. Known as the DPG 20 Streamlining Decision Process, the study recommended a process that became known as Planning, Programming, Budgeting, and Execution (PPBE). Concurrent with the new planning, programming, and budgeting processes, PPBE set forth a two-year budget cycle, which allows DoD to formulate two-year budgets and use the Off-Budget year to focus on budget execution and evaluate program performance. PPBE provides a vehicle for decision makers to examine and analyze decisions by taking into consideration influencing environmental factors such as threats, political and economic climates, technological developments, and resource availability. The processes within PPBE are based on and are consistent with the objectives, policies, priorities, and strategies derived from National Security Decision directives, and shift DoD's focus from straight financial discipline to increased attention and emphasis on program performance and results. ([Office of OSD, web site](#))



## Different Perspectives

**Moore's Law** ~ 18-24 months; focuses on better and better technology;  
**“bids up” technology**

**USGov/PPBS** ~ 3-5 years; focuses on lowest cost for requirements;  
**“bids down” costs**

# Civilian Adoption

- E-Verify
- Social Security proposal
- Smart card based healthcare identity management
- RFID-enabled driver's license prove popular in Michigan

# Civil Law Enforcement

- An implied task in HSPD-24
- Hundreds of Thousands of civil law jurisdictions can provide final line of defense from Battlefields to Borders
- **Achilles Heel?** Dallas, Texas, terrorist was arrested by county sheriff's department. He said he was a foreign student. No drivers license, no insurance. Released with \$500 fine.
  - Did sheriff's have biometric technology? Did sheriff's have procedure to check against Federal data bases? Can Federal data bases take the inquiry?

# Emerging Legal & Social Concepts

- Deny Malicious Anonymity
- Insure Privacy
- Protect Rights

# Biometrics Today

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" ONLY DO BIOMETRIC READINGS NOW "

# Welcome to the NDIA Biometrics Conference 2010

(\*We'll Need a Bigger Boat)