

# MIMOSA Open Meeting

## Standards-based Critical Infrastructure Risk Management

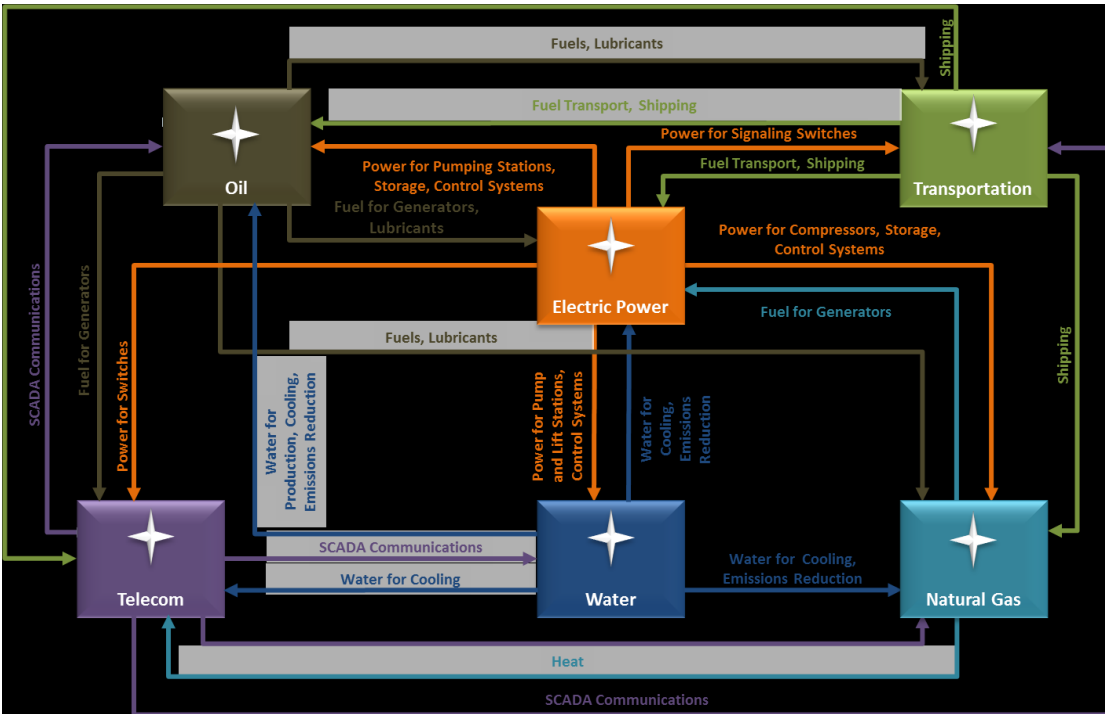
Alan Johnston



# Critical Infrastructure Sectors – From US PPD 21-2013

- Chemical
  - Commercial facilities
  - Communications
- Critical manufacturing
- Dams
- Defense industrial base
  - Emergency services
- Energy
- Financial services (including insurance)
- Food and agriculture
  - Government facilities
- Healthcare and public health
- Information technology
- Nuclear reactors, materials, and waste
- Transportation systems
- Water and wastewater systems

# Critical Infrastructure Interdependencies-2



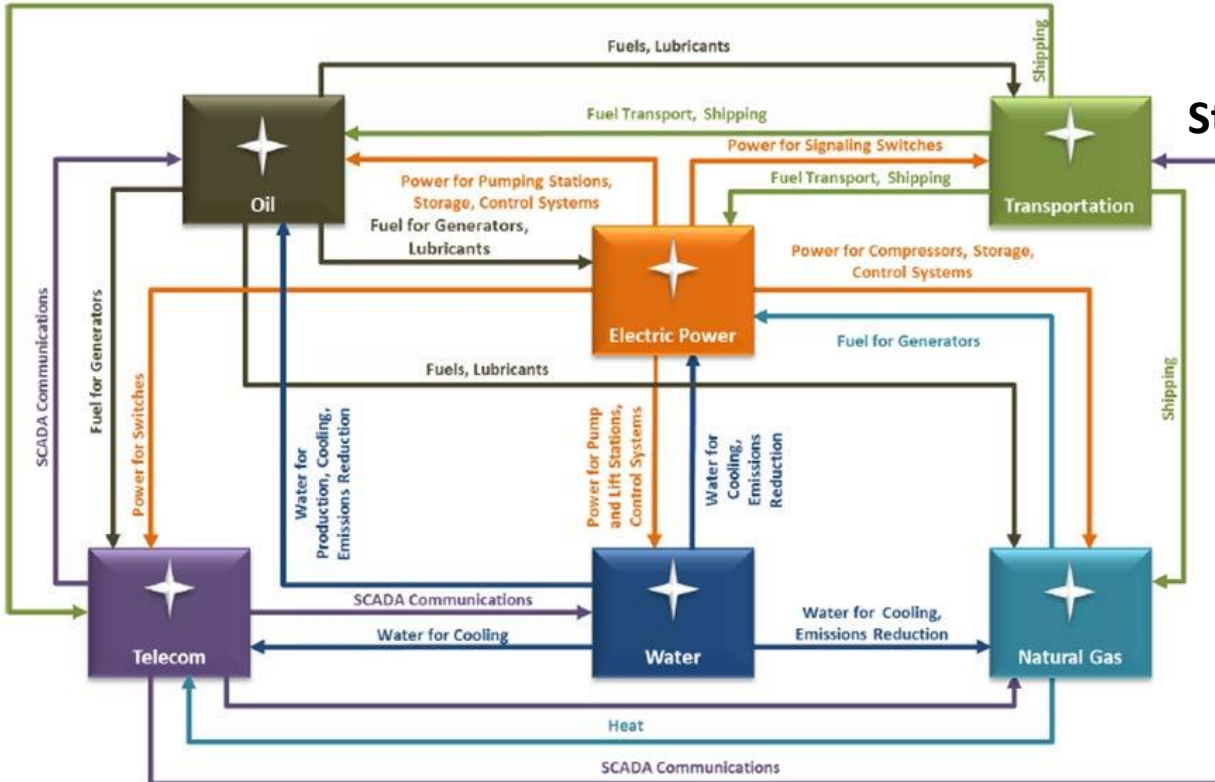
**NIST Special Publication 1190**  
**Community Resilience Planning Guide**  
**For Buildings and Infrastructure Systems**  
**Volume II**  
**October 2015**

# Critical Infrastructure Interdependencies-3



**State Energy Resilience Framework**  
**Global Security Sciences Division**  
**December 2016**

**J. Philips, M. Finster, J. Pillon,  
F. Petit and J. Trail**



# Critical Infrastructure Interdependencies-4

Incorporating Prioritization in  
Critical Infrastructure Security  
and Resilience Programs  
Homeland Security Affairs 13, Article 7  
(<https://www.hsaj.org/articles/14091>)

October 2017

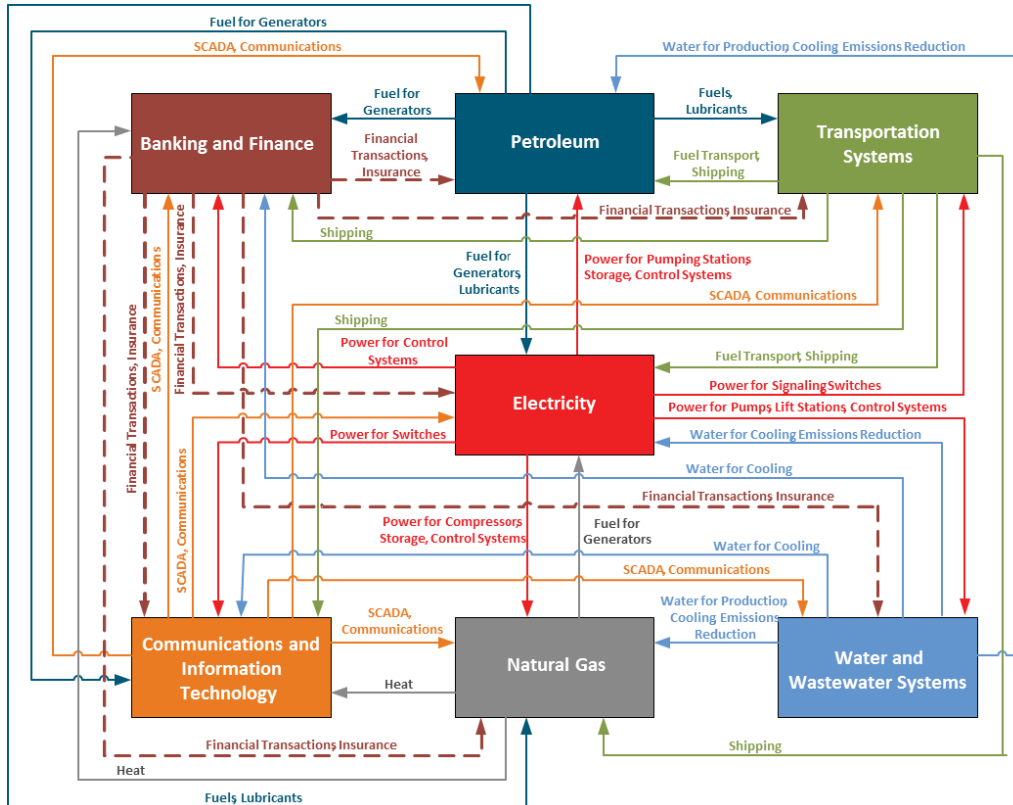
Duane Verner, Frederic Petit,  
and Kibaek Kim



CENTER FOR HOMELAND  
DEFENSE AND SECURITY  
NAVAL POSTGRADUATE SCHOOL



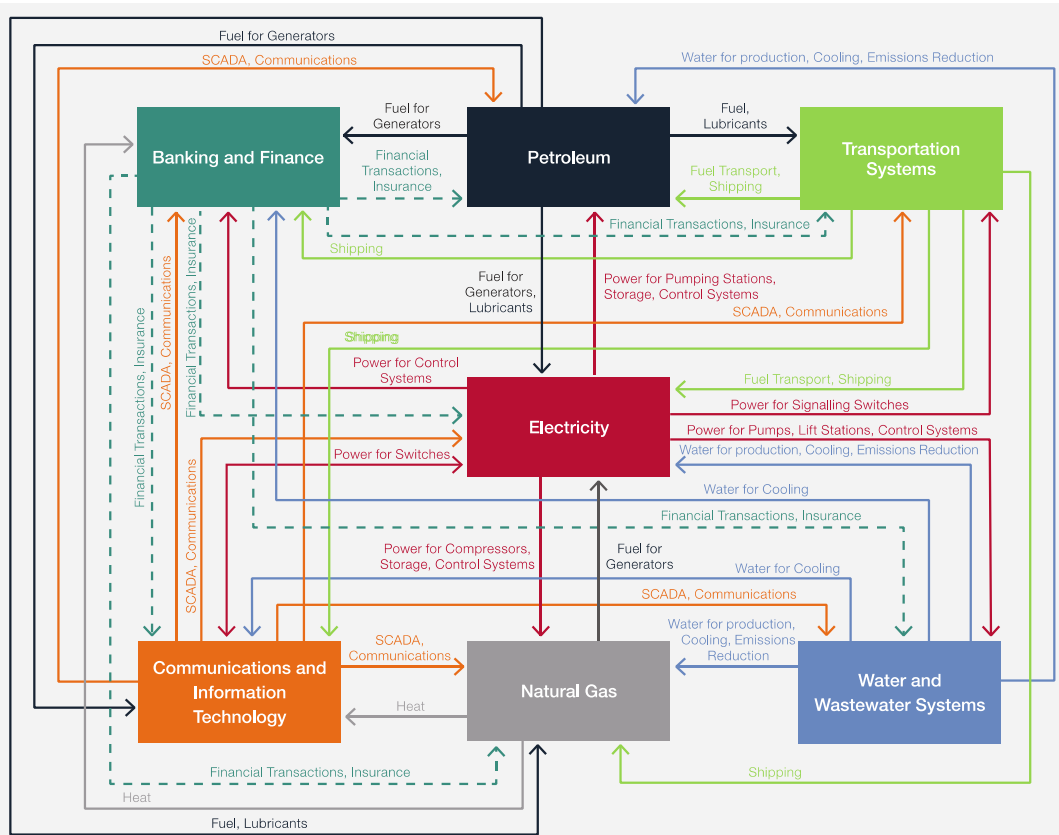
FEMA



# Critical Infrastructure Interdependencies-5



NSW Critical Infrastructure  
Resilience Strategy  
**Partner, Prepare, Provide**  
NSW Department of Justice | Office  
of Emergency Management  
2018



# The Critical 5

- The Critical Five was established in 2012 to enhance information sharing and work on issues of mutual interest between Australia, Canada, New Zealand, the United Kingdom and the United States.
- One of the first efforts was to understand how each country addresses critical infrastructure as a basis for clearly articulating and communicating a common message on the value, meaning, and importance of critical infrastructure.
- [“Forging a Common Understanding of Critical Infrastructure”](#) published March 2014.
- [“The Role of Critical Infrastructure in National Prosperity”](#) published October 2015



# Australia, Japan and United States Trilateral Partnership

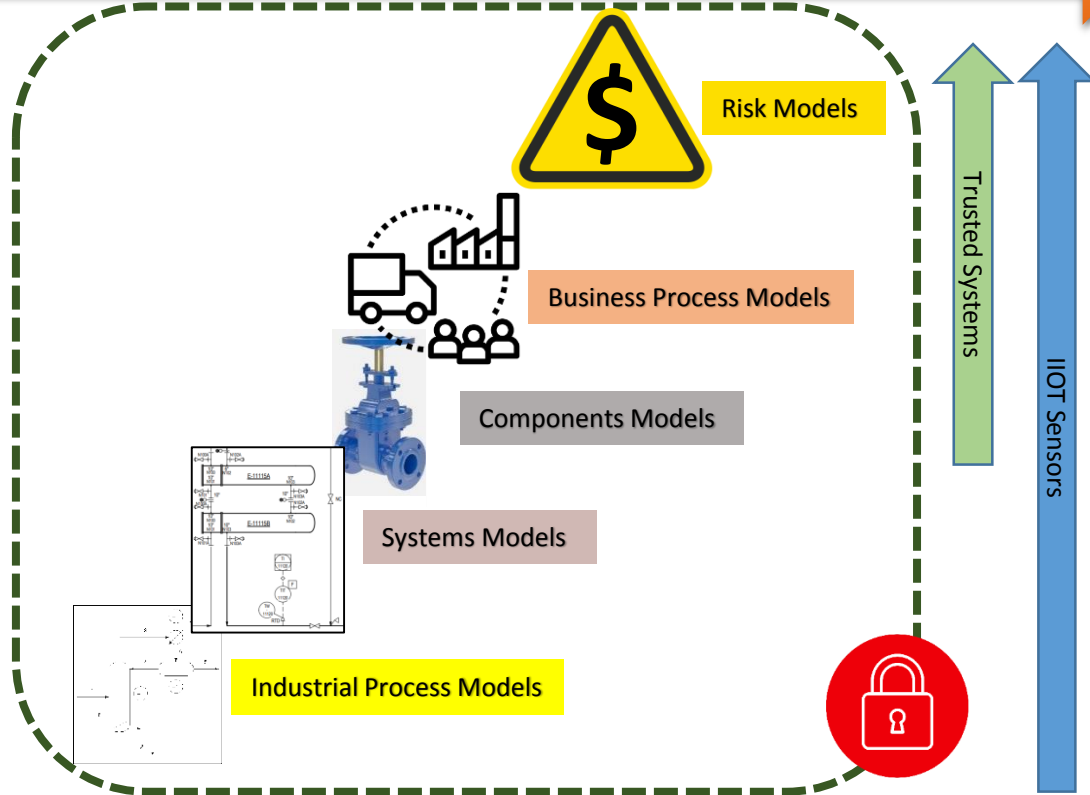
- Announced July 31, 2018
  - Australia: Minister for Foreign Affairs-The Hon Julie Bishop MP
  - Japan: Japanese Bank for International Cooperation
  - United States: United States Overseas Private Investment Corporation (OPIC)
- Indo-Pacific region
- Cooperation on Investment to:
  1. Build infrastructure
  2. Address development challenges
  3. Increase connectivity
  4. Promote economic growth





# Critical Infrastructure Management

Critical Infrastructure Management Process



**Cross Sector  
Collaboration  
with NIST**