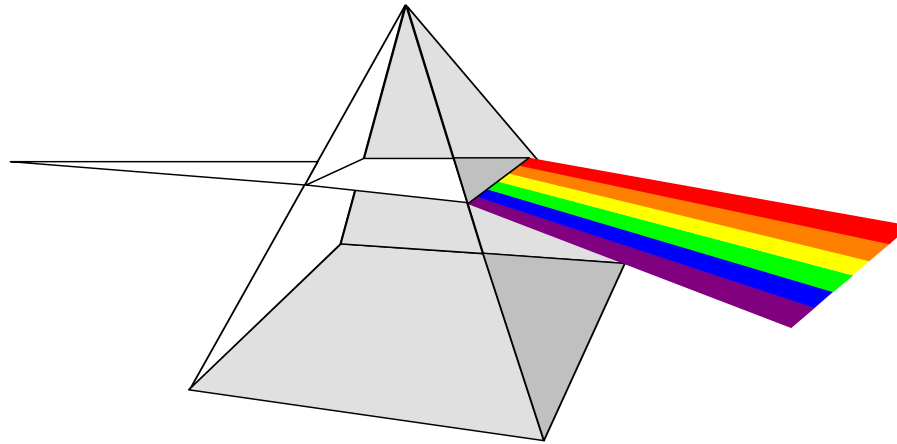




OASD C3I



Critical Infrastructure Protection (CIP)

A 21st Century National Security Imperative



OASD C3I



Overview

- Purpose
- What is Critical Infrastructure Protection (CIP)
- Global Trends Towards CIP
- DoD Concept
- The Challenge
- The Next Steps
- General Observations



OASD C3I



Purpose

Provide Overview of a CINC/Warfighter Focused DoD CIP Program

- Ensure CIP efforts are driven by CINC/Warfighter requirements
- Institutionalize CIP processes through DoD policy and funding



OASD C3I



CIP Defined

The identification, assessment, protection, real-time monitoring and operational assurance of cyber & physical mission critical capabilities essential to the execution of the National Military Strategy.

➤ Infrastructures essential to plan, mobilize, deploy, sustain military operations, and transition to post conflict/operations

↖ DoD

↖ U.S. commercial/private sector,

↖ foreign commercial/private sector, and

↖ Host Nation



CIP Drivers

- **History and global trends highlight the importance of Critical Infrastructure Protection (CIP)**
 - ↖ Pearl Harbor infrastructure lessons-learned
 - ↖ Defense reductions
 - ✧ Reliance on Infrastructures to Optimize Combat Power/Achieve *“Force Multiplication”*
 - ↖ Business practices
 - ✧ *“Bottom Line”* considerations/decisions
 - ✧ Mergers
 - ✧ Globalization and Foreign Ownership and Controlling Influence
 - ↖ Deregulation
 - ✧ Cryptography
 - ✧ California
 - ↖ Quality of life issues
 - ✧ Maintenance of social stability



CIP Drivers (cont.)

Key factors are making critical infrastructures more vulnerable

- ↖ DoD's and America's dramatically increasing reliance on non-DoD & non-U.S. networked systems
- ↖ Importance of state and non-state actors/asymmetric threats
- ↖ US engagement in Infrastructure Warfare (Iraq/Kosovo)
- ↖ Chinese pronouncements
- ↖ OPLAN infrastructure assumptions
- ↖ Wild Cards

Y2K demonstrated the need for and the ability of the DoD and the Nation to effectively address CIP challenges on a global scale



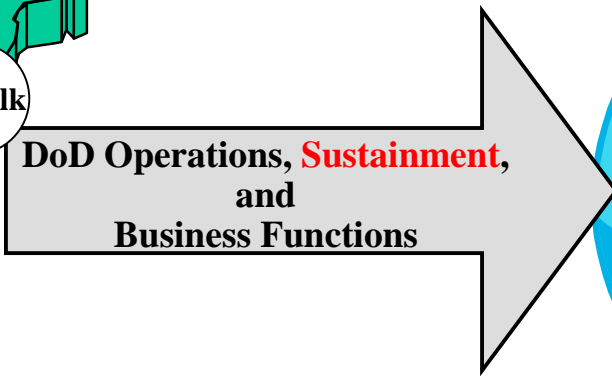
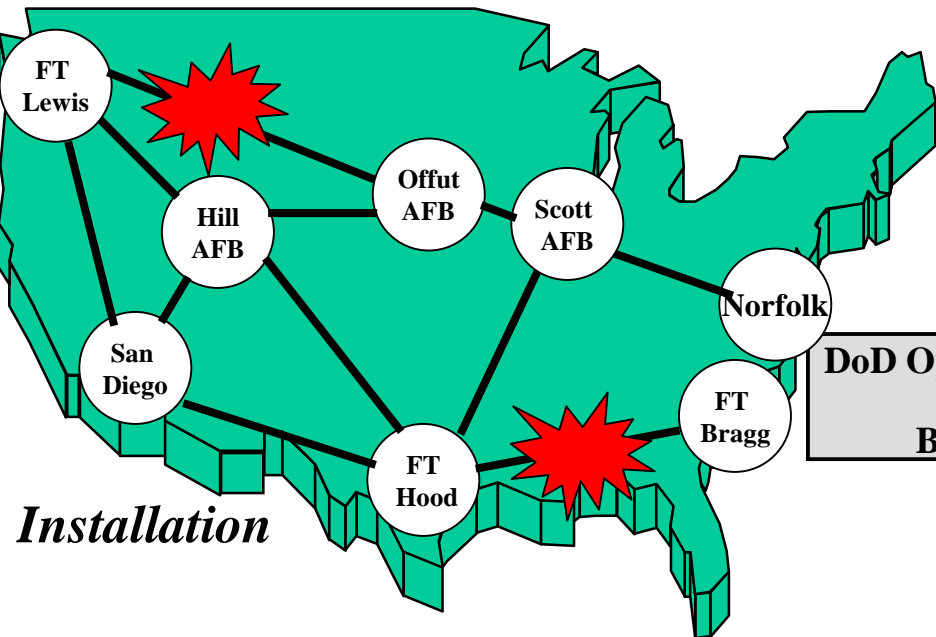
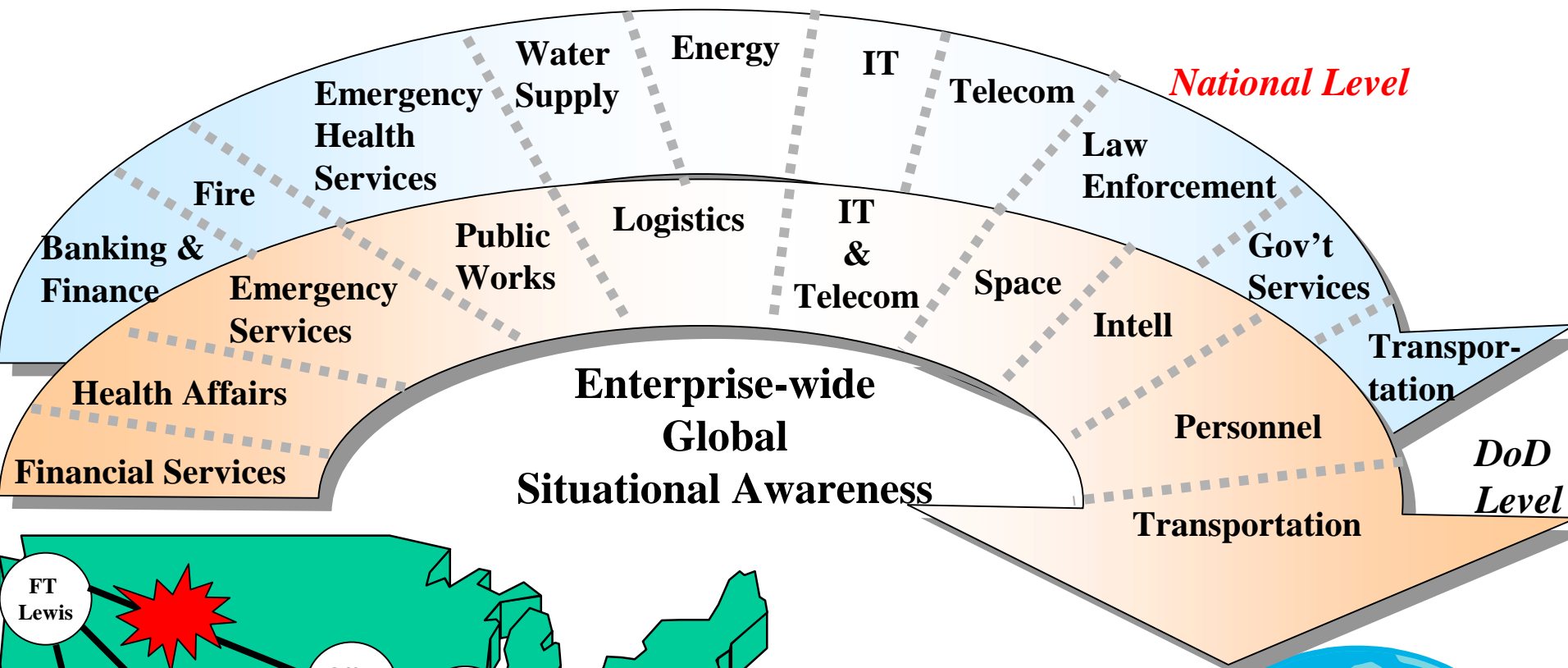
OASD C3I



DoD CIP Requirement

Establish and maintain a Defense-wide, comprehensive, fully integrated, and sustainable program for protecting and assuring Defense, National, and international infrastructures critical to National Security in peace, crisis(es), and war.

The DoD CIP Reality





OASD C3I



The DoD CIP Strategy

- Focus on CINC/Warfighter requirements
- Identify critical assets by analyzing military plans and the Defense Infrastructures
- Identify infrastructure assets that are critical to warfighting/sustainment, and overall mission success
- Assess critical assets and infrastructures -- ID/validate threats and vulnerabilities
- Provide risk adjusted vulnerability information to CINCs, Services and Agencies to reduce vulnerabilities or establish effective “work-arounds”
- Collaborate with Federal Agencies to reduce vulnerability of private sector Defense-related infrastructure assets.
- Work with DoD and Host Nation governments to identify critical infrastructure & reduce vulnerabilities to disruption.
- Provide accurate, real-time, situational awareness/infrastructure visualization and automated decision/contingency planning support.

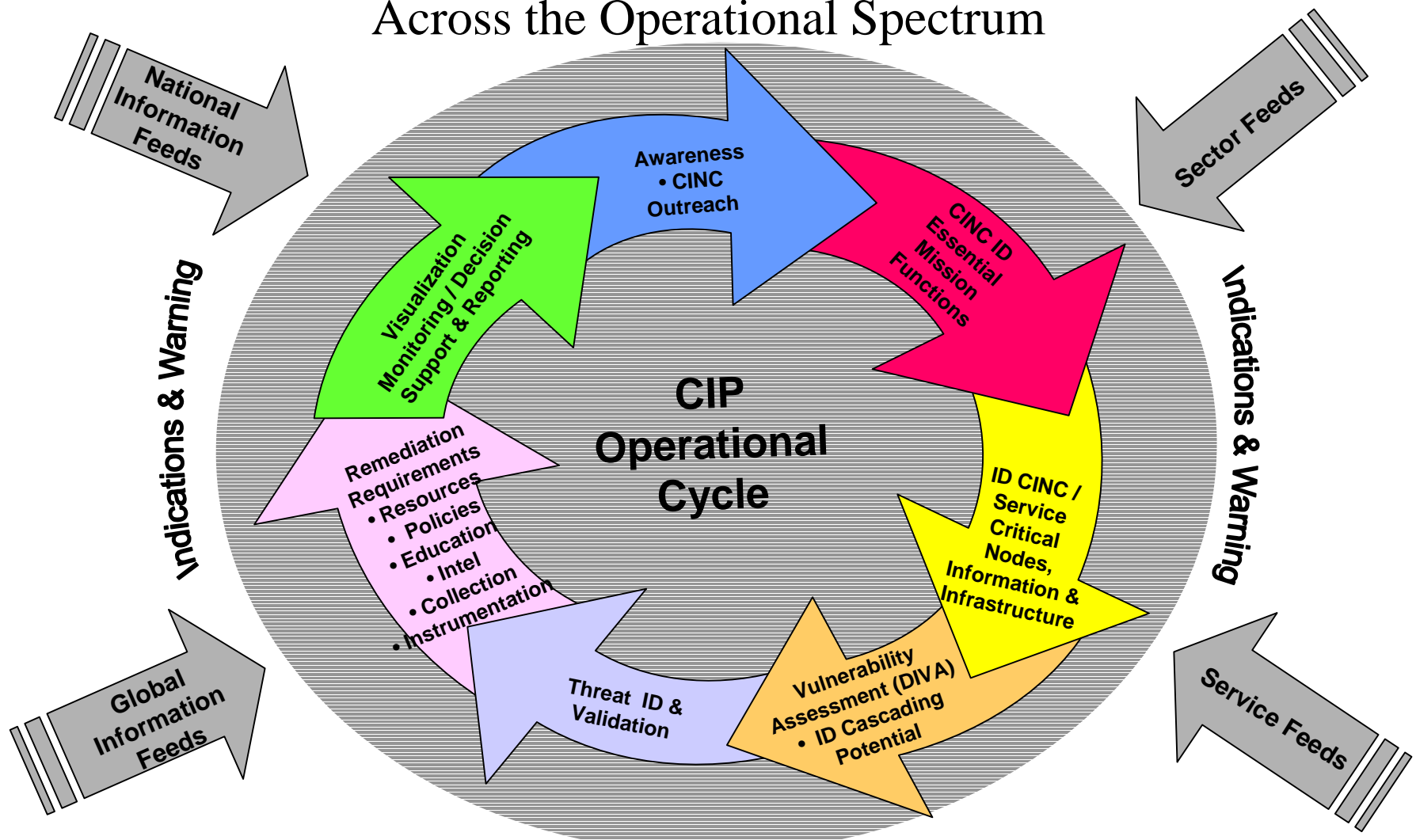


OASD C3I

Infrastructure Assurance for the Warfighter



Across the Operational Spectrum





OASD C3I



Defense Challenges

- Institutionalize CIP as a readiness issue
- Build CIP momentum in the current absence of funding/manpower/Joint Doctrine
- Remember Y2K
 - ↖ Leverage success
- Build trust
 - ↖ Foster cooperation between Defense, Federal Agencies and civil/private sector CIP efforts



OASD C3I



CIP - Milestones

Joint Staff Organization Meeting

JWCA topic integrated into Full Dimensional Protection

JWCA topic integrated with Info Superiority

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FY 00	CINCs draft IPLs			Joint Staff Off -Site 15 Nov 00			JROC/JWCA Topics			Joint Doctrine 1st Coord.	JROC/JWCA Topics SOCOM CENTCOM SOUTHCOM	QDR
FY 01	Critical Assets ID PACOM	Assist Team Visits	JSCP	BSA ★ DJ-5 Submit Proposal	TTP's/Doctrine WG			BSA ★ JDWP	Develop JD Program Directive			BSA ★ Publish PD
FY 02	BSA ★	BSA ★	BSA ★		JD 1st Draft	JROC/JWCA Topics					JD 2d Draft	
FY 03	CINCs draft IPLs			JSCP	JD Final Draft	JROC/JWCA Topics			22 May FOC	Joint Doctrine Pubs	QDR Sustainment, Strategic Mobility and Infrastructure Protection	
FY 04	CINCs draft IPLs				JROC/JWCA Topics							



OASD C3I



Defense Challenges

- Recognize CIP is a readiness issue
- Build CIP momentum in the current absence of funding/manpower/Joint Doctrine
- Remember Y2K
 - ↖ Leverage success
- Build trust
 - ↖ Foster cooperation between Defense, Federal Agencies and civil/private sector CIP efforts



The Way Ahead

- Obtain CINC/Warfighter Input/Recommendations
- OSD/Joint Staff continue efforts to raise DoD-wide Awareness and focus on CINC CIP requirements
- CINC's:
 - ↖ Submit CIP requirements via JROC Process
 - ↖ Add CIP to Integrated Priority Lists (IPL) and Mission Needs Statements (MNS)
 - ↖ Support a “*by exception*” CIP JMRR
 - ↖ Integrate CIP into Tier One Training Exercises
 - ↖ Designate CIP POC/AO for Command



The Way Ahead (cont.)

➤ Joint Staff:

- ↖ Organize to assist the CINC with planning guidance and direction
- ↖ Organize to assist CINC's in the identification, assessment, and remediation process
- ↖ Review OPLAN appendixes for CIP integration and provide feedback to CINC Planning Staffs
- ↖ Draft Joint Doctrine/TTP's and submit NLT Jan 01



OASD C3I



The Way Ahead (cont.)

➤ Joint Staff:

- ↖ QDR 01 - Include the domestic aspects of CIP as part of Homeland Defense
- ↖ Support by-exception JMRR for CIP
- ↖ Work with OSD to ensure JS/CINC/Service/Defense Agency equities are addressed during the Interagency planning process



The Way Ahead (cont.)

- OSD/Joint Staff Develop Readiness Criteria for Critical Infrastructures
- OSD/Joint Staff Develop Infrastructure Situational Awareness Technologies and Procedures
- DoD Lead by Example
 - ↖ Develop CIP Model for the Nation
 - ✧ Develop Defense policies, tactics, and technologies
 - ↖ Work with Federal Agencies to Support Defense CIP Requirements
 - ↖ Work with Congress to Support DoD CIP Program Funding



OASD C3I



CIP Points of Contacts

OASD C3I:

- **Mr. J. William Leonard (DASD S&IO, Deputy CIAO)**
(703) 695-2396 bill.leonard@osd.mil

- **Mr. Jeffrey Gaynor (Principal Director, DASD S&IO)**
(703) 695-2399 jeff.gaynor@osd.mil

- **Mrs. Bonnie Hammersley (Director, CIP Office)**
(703) 602-5676 bonnie.hammersley@osd.mil

- **Mr. Bill Corr (CIP Outreach & Visualization and Decision Support)**
(703)602-0980 x145 bill.corr@osd.mil



OASD C3I



CIP Points of Contacts

Joint Staff:

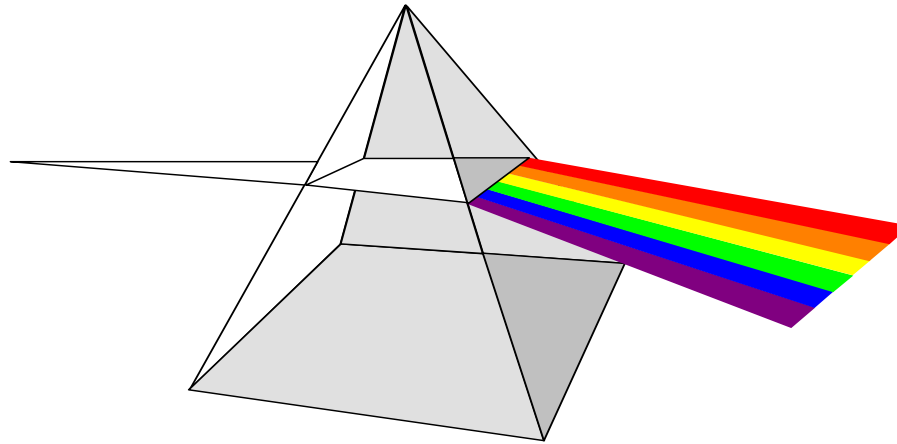
- **Colonel Joe Dunford (Joint Staff J5)**
(703) 614-9145 joe.dunford@js.pentagon.mil

- **Lieutenant Colonel Mark Murphy (Joint Staff J5)**
(703) 693-7570 mark.murphy@js.pentagon.mil

- **Major (P) Terry Sellers (Joint Staff J5)**
(703) 697-2491 terry.sellers@js.pentagon.mil



OASD C3I



Critical Infrastructure Protection (CIP)

A 21st Century National Security Imperative