



Defense Information Systems Agency

A Combat Support Agency

Defense Spectrum Organization

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Disclaimer

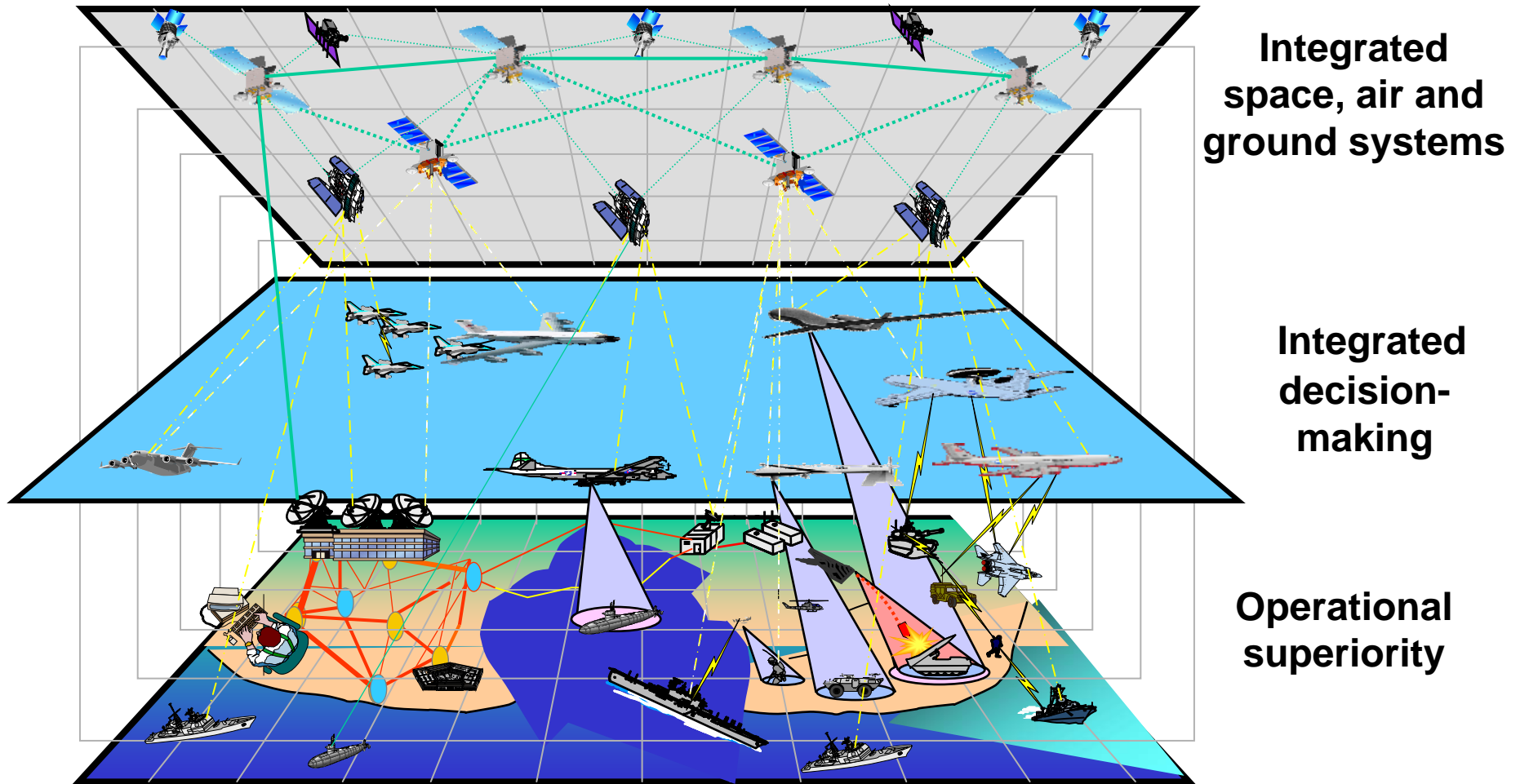
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DISA Defense Spectrum Environment

A Combat Support Agency



Spectrum enables net-centric operations and warfare

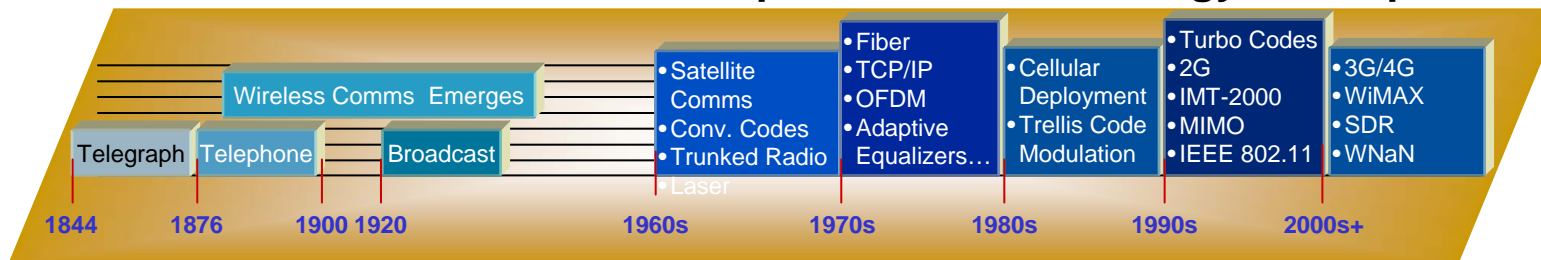
DoD Spectrum Challenges

OPERATIONAL: Net-centric joint operations

- Net-Centric Warfare
- Higher bandwidths
- Greater mobility
- Greater agility
- Higher tempo



TECHNICAL: Five decades of rapid wireless technology development



- Growing spectrum requirements
- Encroachment on military bands

REGULATORY: Increased need for more spectrum, harmonization, etc

- Demands for sharing and harmonization
- Host nation sovereignty
- World Radiocommunication Conference (WRC) impact





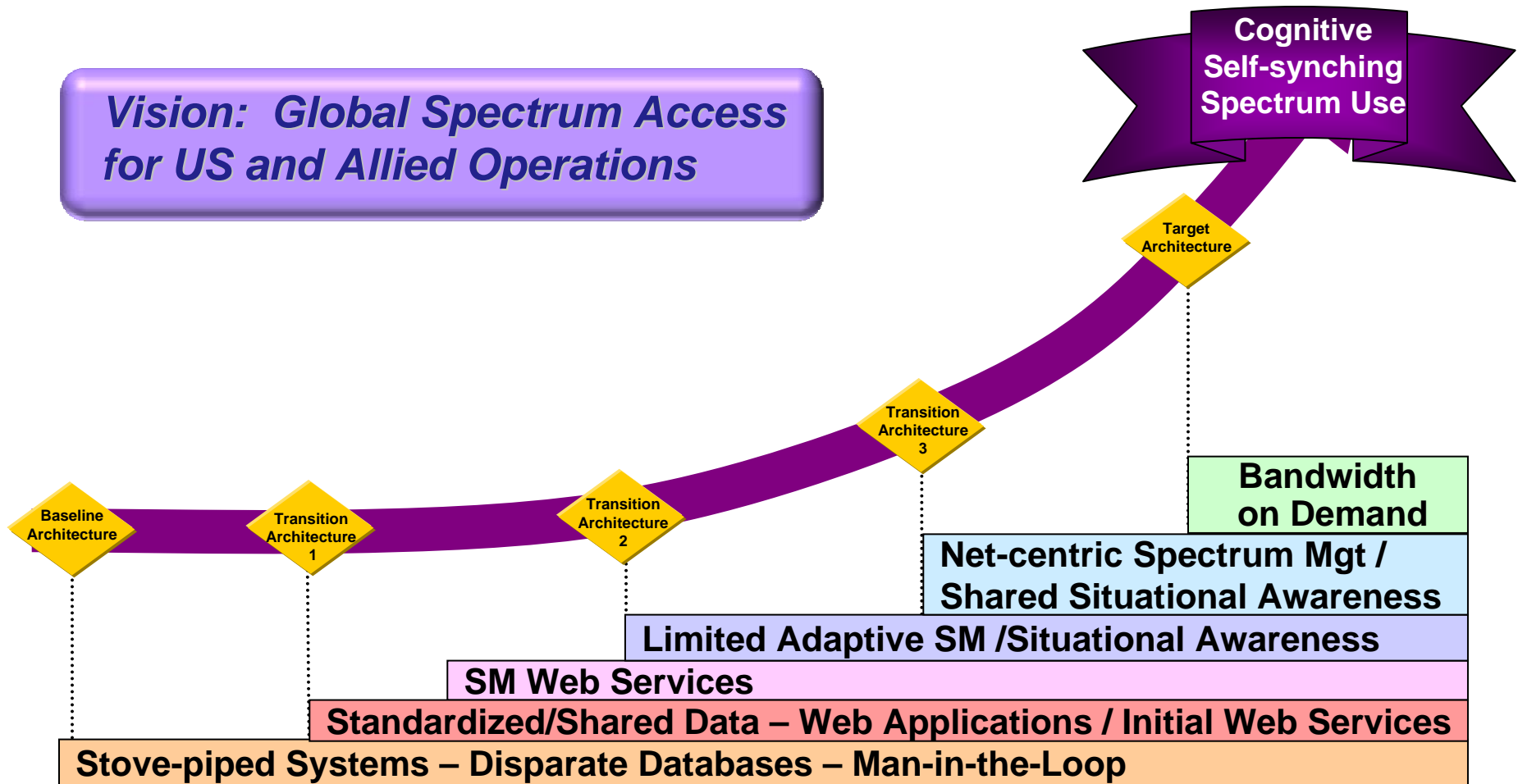
Penalties for Inaction

- **DoD must have a unified approach to prevent:**
 - **Operational problems; inadvertent degradation of critical military functions**
 - **Inability to train the way we fight**
 - **Systems which cannot be used during military operations**
 - **Expensive re-design of radio frequency dependent systems to conform with spectrum regulations**
 - **Inability to support national emergencies and Homeland Defense missions**
 - **Potential loss of life**

FAILURE IS NOT AN OPTION

Spectrum Management Transformation*

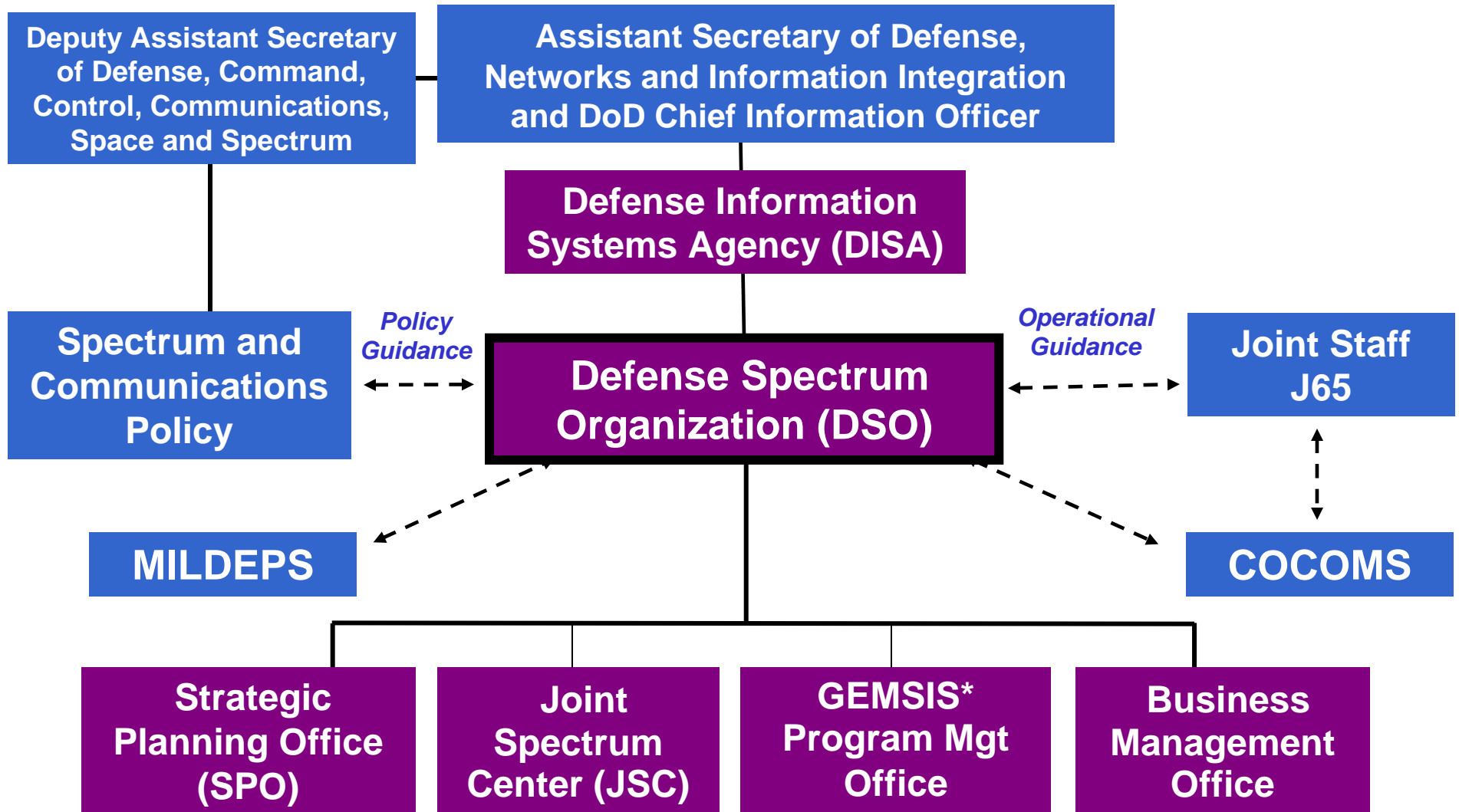
Vision: Global Spectrum Access for US and Allied Operations



*Defense Spectrum Management Architecture



Organization Chart



* GLOBAL ELECTROMAGNETIC SPECTRUM INFORMATION SYSTEM



On the Horizon for DSO

Contract/Task/Area of Support	Anticipated Start Date
FY11/12	
Spectrum Data Improvements	Jan 2011
Broad Area Announcement(s) for Emerging Spectrum Technologies (EST)/Dynamic Spectrum Access (DSA)	Varies in FY2011
Global Electromagnetic Spectrum Information System (GEMSIS) Program Office Support	May 2011
Global Electromagnetic Spectrum Information System (GEMSIS) Increment 1 Sustainment	FY2012
Global Electromagnetic Spectrum Information System (GEMSIS) Increment 2 Engineering Services	FY2012

