

This Brief is Unclassified

DoD CIO Brief to National Spectrum Consortium Industry Day Assured Dynamic Spectrum Access

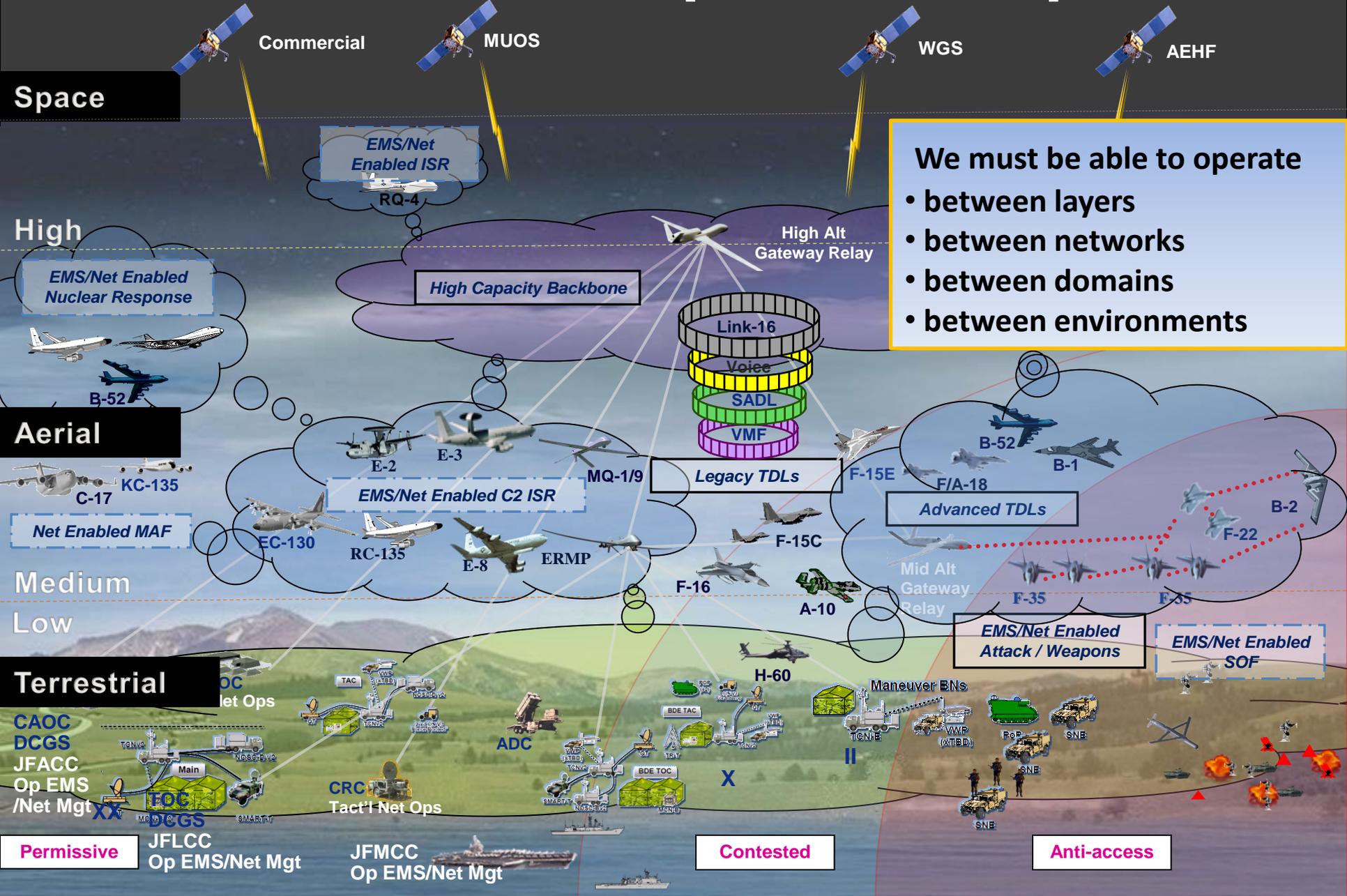


Major General Robert E. Wheeler
DoD Deputy Chief Information Officer
Command, Control, Communications, Computers and
Information Infrastructure
5 December 2014



SUPPORT THE WARFIGHTER

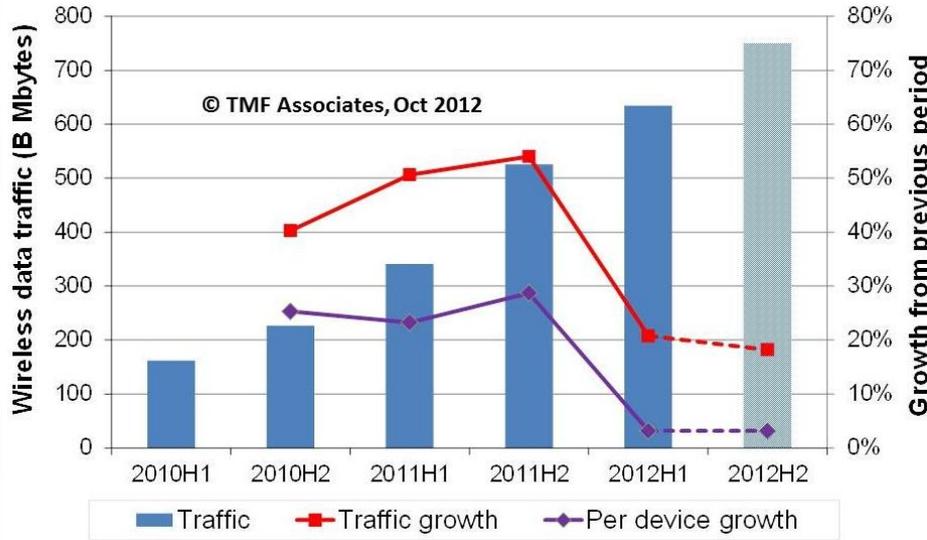
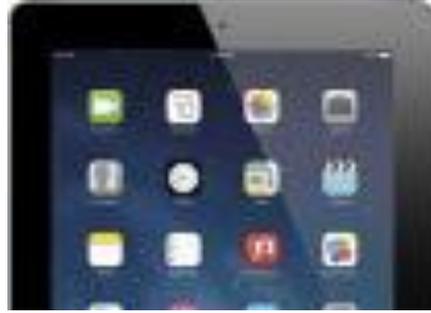
Mission Success Depends on Spectrum



We must be able to operate

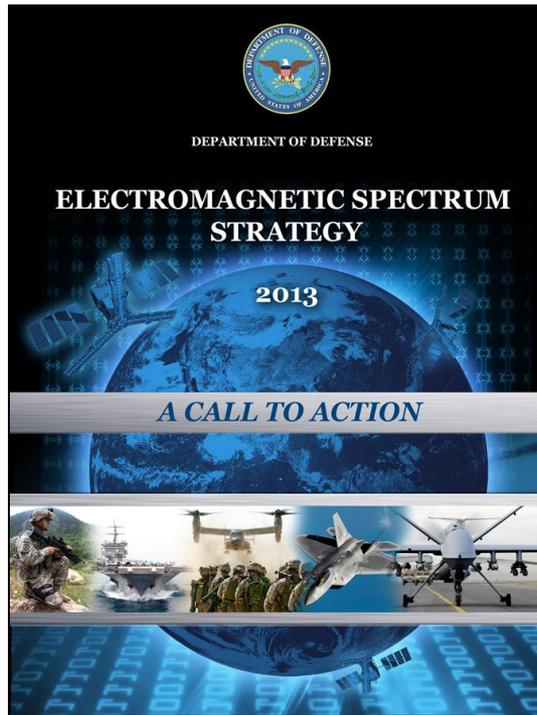
- between layers
- between networks
- between domains
- between environments

Spectrum Access is a Race: Both on the Battlefield and in the Marketplace



Vision for Change: Spectrum Strategy

EMS Strategy's Vision: "Spectrum Access When and Where Needed to Achieve Mission Success"



- **“Call to action,” 3 Goals:**
 - Expedite development of spectrum dependent systems with increased efficiency, flexibility and adaptability
 - Increase agility of DoD operations
 - Sharpen responsiveness to ongoing spectrum regulatory and policy changes

Focus on ‘deep tissue’ change: Cultural transformation; shift from reactive to proactive; governance, accountability and oversight; collaboration and partnerships; technology embracing

Spectrum Sharing Key to Global Operational Effectiveness

- **DoD efforts to improve spectrum access must converge toward an end goal of global operational effectiveness**
- **Spectrum Sharing is key to assured spectrum access: both efficient and effective use once access is gained**
- **Spectrum policy and regulatory frameworks will evolve to ensure that rapidly developing technology advances around spectrum sharing can be used to meet warfighter mission requirements**
- **The framework will support new agile DoD systems that will be built for a more contested and congested operational environments.**

Consortium – DoD's Technology Innovator

- **Consortium will assist DoD in conquering difficult sharing and technology challenges**
- **Through collaboration bring capabilities to DoD faster to meet rapidly evolving requirements**
- **Serves to compliment a wide range of activities:**
 - National Advanced Spectrum and Communications Test Network (NASCTN) - Strong engineering, testing and other research and development
 - EMS Strategy's Roadmap and Action Plan – make DoD more agile and mission effective
 - Engagement in policy dialogue on sharing – Framework to support new technologies and systems

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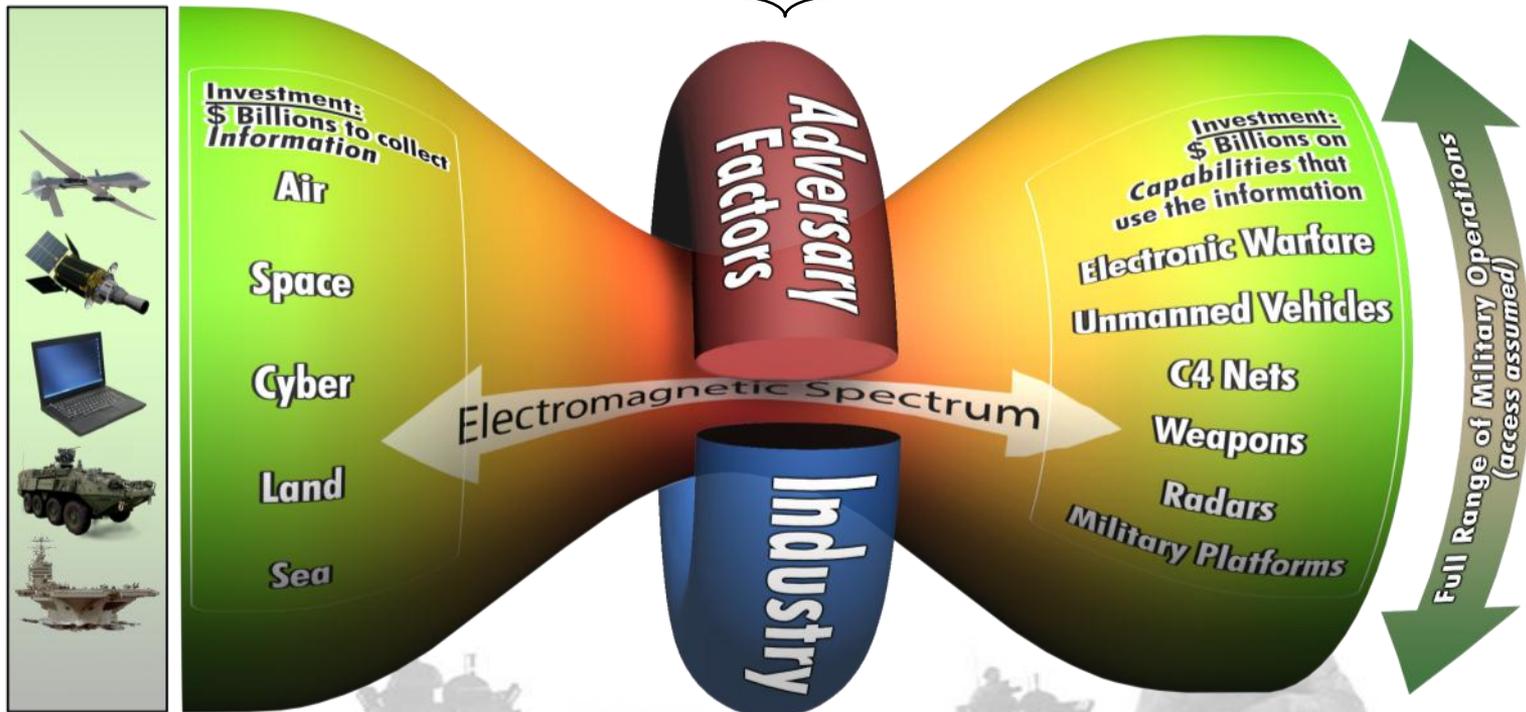
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Why This Matters: DoD Operational Implications

- Directed Energy (EMP, HPM, laser)
- Digital RF Memory
- Weaponized COTS
- GPS jammers
- MMW
- Proliferation
- Advanced C2 nets



- Broadband technologies
- IEEE Standards
- Speed/Throughput/ Streaming Content
- Economic Growth
- Jobs Creation

The foundation upon which DoD builds weapons systems is changing; DoD efforts to recognize and to build to a new foundation are critical to national security