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Department of Defense
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State of Electronic Warfare in the Department of Defense

SLIDES ONLY
NO SCRIPT PROVIDED

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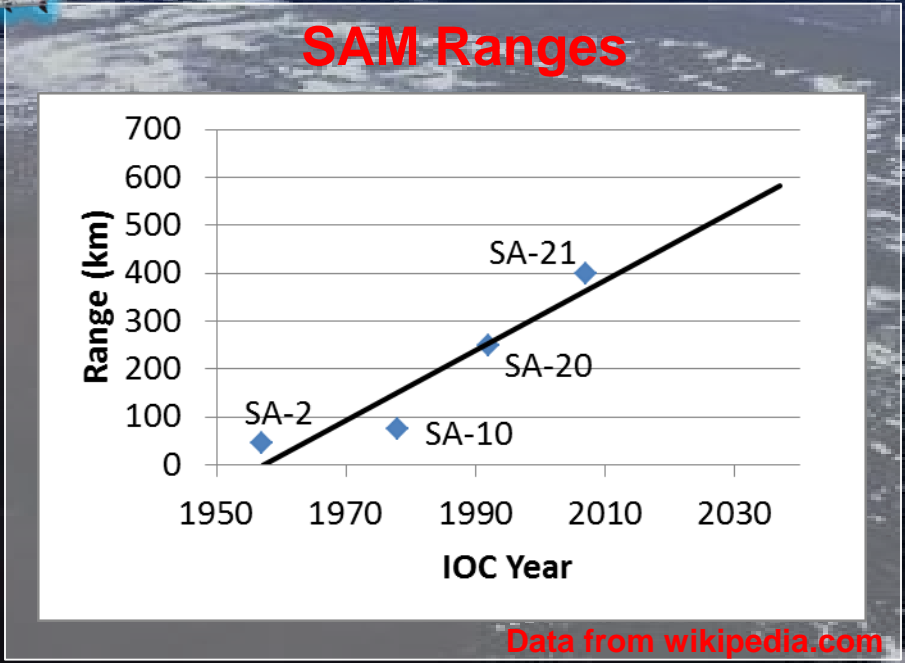
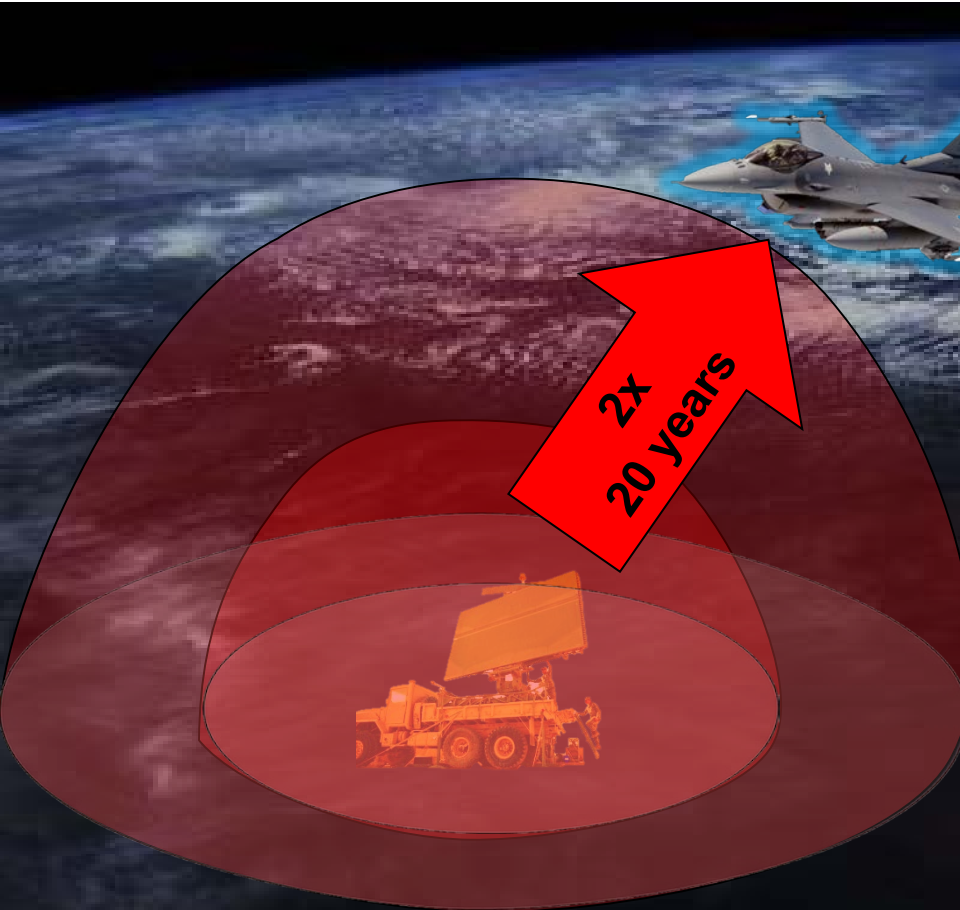
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**Office of the Under Secretary of Defense for
Acquisition, Technology, and Logistics**

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A2/AD is a fight in Electromagnetic Spectrum

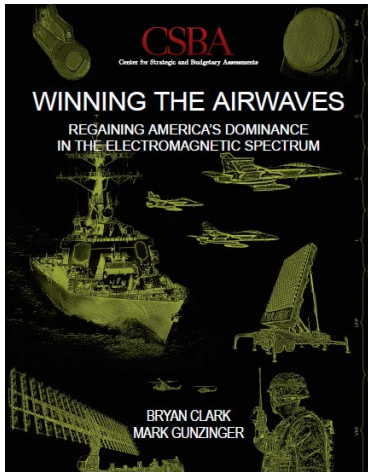


“Superiority in air, land, sea, space or cyberspace cannot be gained without control of the electromagnetic spectrum... The electromagnetic spectrum touches everything we do, and we must make sure use and protection of this spectrum includes a whole-of-government and international approach.”

– Gen Stephen Wilson



Evolving thoughts



“EMS warfare can be roughly described as military communications, sensing, and electronic warfare operations that occur in the EM domain. While the term EMS warfare may be new, military operations in the EMS are not.”



System-of-systems warfare requires the EMS



“Additionally, Beijing is improving its space and counter-space, cyber-, and electronic-warfare capabilities, which it sees as key components of strategic deterrence and as essential to deterring or fighting modern, information technology–enabled warfare.

China’s “military strategic guideline of active defense in the new situation” not only calls for being able to win local wars under “informatized conditions” (which they define as those in which information technology plays a central role and the struggle for information dominance may prove decisive), but it also emphasizes the importance of strategic deterrence.”



Integration





Electronic Warfare Strategy



Vision:

Agile, adaptive, and integrated electronic warfare to offensively achieve EMS superiority across the range of military operations

Goals:

- 1) ORGANIZE THE EW ENTERPRISE TO ENSURE EMS SUPERIORITY
- 2) TRAIN AND EDUCATE FOR 21ST CENTURY EW AND EMS OPERATIONS
- 3) EQUIP THE FORCE WITH AGILE, ADAPTIVE, AND INTEGRATED EW CAPABILITIES
- 4) BOLSTER PARTNERSHIPS WITH INDUSTRY, ACADEMIA, INTERAGENCY AND ALLIED PARTNERS



Electronic Warfare Executive Committee

- Formed in March 2015 by DEPSECDEF
 - Based on Defense Science Board Recommendation
 - Provides: Senior oversight, coordination, budget/capability harmonization, and advice on EW matters
 - Meets as required – typically quarterly

	Co-chairs:		USD(AT&L)	VCJCS
Members	USD(I)		USD(P)	ACMC
	VCNO		VCSA	VCSAF
	ASN RDA		ASA ALT	ASAF AQ
	Commander USSTRATCOM		D,OT&E	CIO
	Commander USCYBERCOM		D,CAPE	Dir, DARPA

- Supported by GS-15/O-6 EW Capabilities Team (EWCT)
- Full membership meets monthly – Working groups as required



Discussion

- Domain superiority requires control of the Electromagnetic Spectrum
- Inclusion of EMS in strategic thinking by:
 - US DoD
 - Allies
 - Pacing competitors
- Areas requiring strategic thinking:
 - Commercial investment & pace of change in tech base
 - Requirements
 - Training Opportunities
 - Testing
- DoD's Electronic Warfare Strategy released
- State of electronic warfare:
 - Positive trend
 - Work remains to be done