SDA CAPABILITY ROADMAP



			TECHNOL	.0gy Advan	CEMENT		ARCHITECTURE EVOLUTION CAPABILITY DELIVERY			
SS	ī	2025 Tranche 1	Tranche 2	2029 > Tranche 3	Tranche 4	2033 > Tranche 5+		Sensing	Processing	Tactical Comms
AMAND, CONTROL COMPREHENSIVE REAL-TIME GLOBAL AWARENESS	CTIVITY Utansport		Onboard RF Doppler Advanced Electro & Timing Correction HAIPEs Scanne				The Brelifersted Warfighter Space	Tranche 2: Full Warfighting Capability		
	Titan	Tactical Data Links Advanced Comms Encryption		Optimized Control of Modulation Techniques		The Proliferated Warfighter Space Architecture (PWSA) is a proliferated constellation of hundreds of		Onboard Auto Target Recognition	¹ Future Tactical	
	AND CON Navigation	Ranging Via Optical Crosslinks	PNT Situational Awareness Systems GPS Denied PNT	Advanced Clock Technology	Automatic Navigation		satellites, in Low Earth Orbit, delivering capability at speed to the warfighter.	delivering capability at speed to the warfighter. Global Stereo Missile Warning	3D Missile Track Fusion (Space-Based)	Data Link Connectivity
	acking	MW/MT Fusion Algorithms	Fire Control Quality Sensors	Multiband Focal Plane Arrays		Multi-Spectral Ision Algorithms		PNT Situational Awareness	Multi-INT Fusion (Space-Based) NAVWAR Resilience	Global IBS Broadcast
	DEINSIIN		Space Based	d Telemetry Relay	Quantum Networking		PWSA	Tranche 1: Initial Warfighting Capability		
		Networking to Partner Archite	ectures Com	ace-based Sensors In pplementary Missions ng, and Locating E		ansportable bund Stations	SDA leverages Spiral development to deploy and proliferate new technology into the PWSA every two	Global Mono Missile Warning	Multi-INT Fusion (Ground-Based)	Direct Downlinks to Targeting Cells
	Custody	Multi-Int Fusion (Ground-Based)	Multi-Int Fusion (Space-Based)	Onboard Automat Target Recognitic		0		and Tracking	3D Missile Track Fusion (Ground-Based)	and Tactical Users (via Link 16)
	Battle Management	Cyber Defense RAD-Hard Distributed Onboard Application Factory Processors Processing Automated Software Frameworks Op Dynamic Networking Enabling On-Orbit Updates		Distributed C2 in Contested Environment Automated Stimization& Maneuver Tasking	years, called a " tranche ", to continually increase capability used by the warfighter.	Tranche Tracking Capability	0: Warfighter In	nmersion BLOS Targeting via Link 16		
IISCIENT CON	<		i-Domain Optical mmunications nd Arc	chitecture Wide Digita Engineering	Seamlesss Mult Security Opera al		Sight (BLOS)and advancedtargeting for time-missile threatsensitive ground andwarning andmaritime targetstracking	Demonstration		demonstration

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