

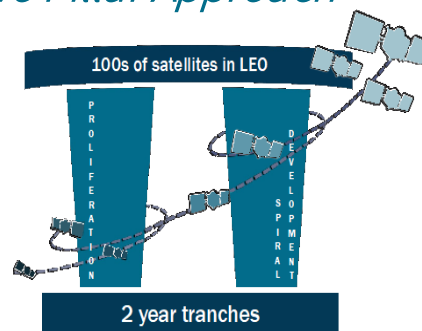
Space Development Agency



Mission
Speed. Delivery. Agility.

As DoD's constructive disruptor for space acquisition, SDA will quickly deliver needed space-based capabilities to the joint warfighter to support terrestrial missions through development, fielding, and operation of the Proliferated Warfighter Space Architecture – a constellation of hundreds of satellites in low Earth orbit. SDA capitalizes on a unique business model that values speed and lowers costs by harnessing commercial development to achieve a proliferated architecture and enhance resilience. SDA will deliver a minimum viable product—on time, every two years—by employing spiral development methods, adding capabilities to future generations as the threat evolves.

Two Pillar Approach



High-Level Schedule

	Program / Demo Name	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Tranche 0 Warfighter Immersion Periodic Regional Access <ul style="list-style-type: none"> Low Latency Data Connectivity Data directly to tactical elements HGV Detection & Tracking Demonstration: <ul style="list-style-type: none"> BLOS Targeting MW/MT On-orbit Fusion 	Transport Layer	20				
	Tracking Layer	8 WFOV				
	MSE&I	←→				
	Ground Segment	←→				
	Launch	x2				
<i>Architecture Adoption</i>						
Tranche 1 Initial Warfighter Capability Persistent Regional Access <ul style="list-style-type: none"> Tranche 0 listed capabilities Link 16 tactical data link Periodic Regional Access: <ul style="list-style-type: none"> Multiple sensing types using mission partner contributions Demonstration: <ul style="list-style-type: none"> Multi-phenomenology, on-orbit fusion UHF & S-band tactical communications MFOV demo in operational system 	Transport Layer		126			
	Tracking Layer			39		
	Operations & Integration	←→				
	Launch		x1	x5 x5		
	T1DES*			12		
Tranche 2 Sustained Capability Persistent Global Access <ul style="list-style-type: none"> Tranche 1 listed capabilities Engage on remote & dim upper stage Periodic Global Access: <ul style="list-style-type: none"> Multiple sensing types using mission partner contributions Demonstration: <ul style="list-style-type: none"> Multi-phenomenology, on-orbit fusion 	Transport				~172	
	Tracking					~54
	Launch				x1	~11 ~TBD
	T2DES					TBD
	Operations & Integration	←→				
NEXT Experimental Testbed	NEXT			10 NEXT		

BLOS: Beyond Line of Sight
HGV: Hypersonic Glide Vehicle

MW/MT: Missile Warning and Missile Tracking
SV: Space Vehicle

*And other advanced missile threats
*Architecture adoption for Tranche 1 and onward

For the first time in the agency's nearly four year history, the spiral development model spans the full spectrum: launching and demonstrating Tranche 0, pivoting from design to build for Tranche 1, and acquiring Tranche 2.

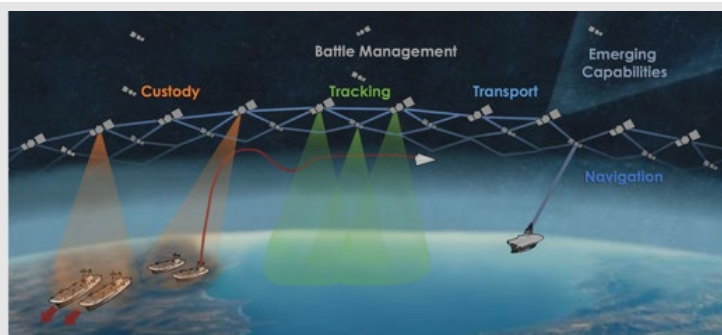
Focus Areas

Mesh network of optically-connected data transport satellites to enable:

- Tracking and targeting for advanced missiles in flight.
- Beyond-line-of-sight (BLOS) targeting for time-sensitive targets, or mobile targets.

Resilient Layered Architecture Approach

- Assures resilient, low-latency military data and connectivity Worldwide to the full range of warfighter platforms.
- Serves as the Joint All-Domain Command and Control (JADC2) Backbone in space.



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Acquiring Capabilities at Speed and Affordable Cost

SDA is on pace to deliver initial space transport capabilities on the agency's originally advertised schedule at a per satellite price point once deemed unachievable.

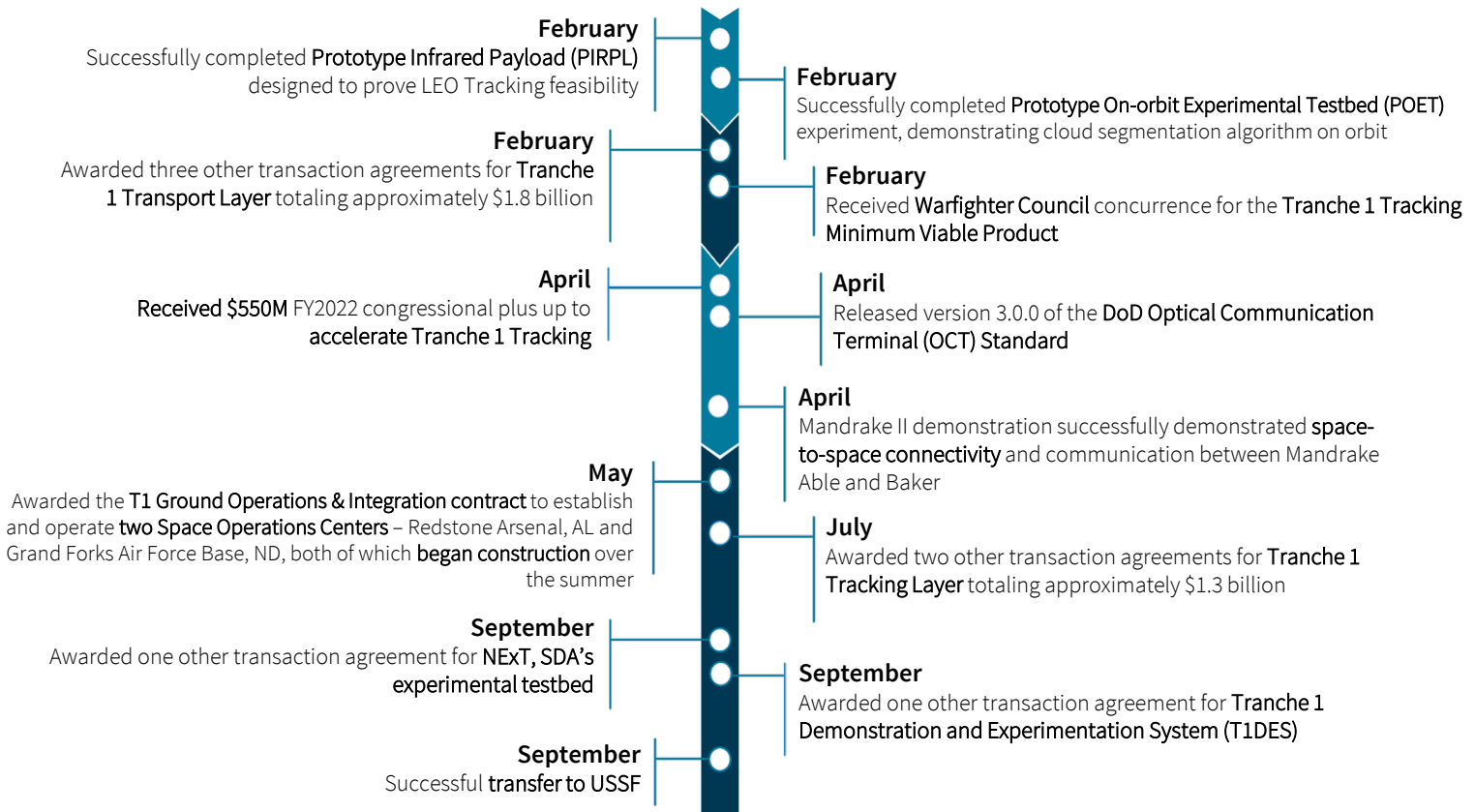
\$14M  Approximate average cost of SDA Transport satellite

44  During FY2022, SDA made 44 awards totaling ~\$3.8 billion

108  Average days between solicitation and contract or award

31  Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards for ~\$26 million in FY2022

Achieving Major Milestones 2022



Other Achievements

Small Business

Made 31 Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards valued at approximately \$26 million

Blossom Point Tracking Facility

Successfully connected and received representative targeting data from the NIFE. This is the first critical step in establishing a JADC2 backbone to move BLOS targeting data for time-sensitive ground and maritime targets to the tactical warfighter

Signed 10+ partnership agreements:

- Military service agreements on JADC2 Projects Convergence (Army) and Overmatch (Navy)
- Mission support for MTC-X/A
- Development Security Operations (DevSecOps) agreement with Naval Information Warfare Center (NIWC)
- NEXt payload partners like U.S. Special Operations Command