



TACTICAL SURVEILLANCE, RECONNAISSANCE & TRACKING (TacSRT) SNAPSHOT

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c/a/o 1 Feb 24



TacSRT Pilot Overview



Mission Statement: Demonstrate a USSF ability to rapidly deliver unclassified, commercial, space-based sensing and analytics capabilities to Combatant Commands (CCMDs) via the USSF's Space Components.

TacSRT Pilot Scope:

1. Identify existing SRT gaps via USSF Component Commands
2. Determine if industry can meet those needs
3. Identify rapid contract strategy (Global Data Marketplace)
4. Pinpoint personnel/environment within Component Command

TacSRT Pilot Objectives:

- Establish TacSRT architecture and methodology
- Rapidly respond with workable data
- Develop a transition plan (funding/manpower) to sustained operations
- Capture lessons learned to share with Community

Test Case: Guinea Coastal Chemical Spill

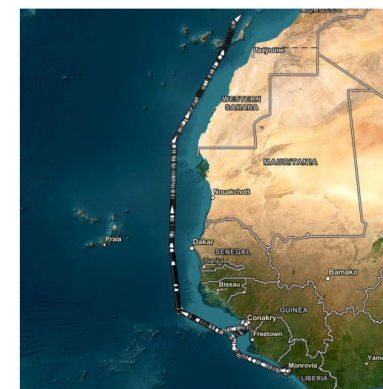
- Fused multiple data types (imagery, AIS, ship maintenance logs) to conduct assessment
- Narrowed list of 300 suspect ships to 5 in 96hrs

Vessel of Interest



Pacific Zircon

- Oil/Chemical Tanker sailing under flag of Liberia (flag of convenience). In Conakry on April 9 and departed April 10. Vessel did have AIS gaps during this time. LOA is 182 meters/32 meters. Owner is Friend Shine Shipping SA. Registered Country is Panama and Residence Country Saint Maarten. Beneficial Country is Japan. This Ownership, flag and different Residence registered Countries are suspect.
- After vessel departed Conakry on 4 Apr 2023, traveled directly to Hidrodinamik Shipyard facility in Istanbul, arriving on 25 Apr 2023. This port is known for doing major repairs on vessels. Vessel transited known spill area prior to port call in Conakry.



PACIFIC ZIRCON History Track For 01 Apr to 15 Apr 2023

TacSRT Pilot - Achievements to Date



Guinea Coastal Chemical Spill (May 23)

- Fused multiple data types (imagery, AIS, ship maintenance logs) to conduct assessment
- Narrowed list of 300 suspect ships to 5 in 96hrs

Resolute Sentinel (Jun 23)

- Supported real-world Illegal Fishing event
- Located ship suspected of encroaching on partner nation's territorial waters; Tipped USAF, USCG, and Peruvian Coast Guard assets for interdiction

HADR Support to AFRICOM (Jul 23)

- First responders to Moroccan Earthquake/Libyan Floods
- Provided critical infrastructure damage assessment to respective U.S. Embassy teams in under 48 hrs

Pre-Pilot Successes

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PACIFIC ZIRCON History Track For 01 Apr to 15 Apr 2023



HADR Support to INDOPACOM

- Supported Japanese Earthquake within 24hrs of tasking
- 10 OPPs delivered analyzing damage to key infrastructure and transportation pathways across 10 areas of interest

VEO Analysis at Border's of Interest

- Identified composition of armed groups along the border of DRC/Rwanda and Benin/Niger
- Rapidly analyzed imagery in G-EGD within 72 hours of AFRICOM J2 collection

Surveillance for AFCON23 Soccer Tournament

- Leveraged PAI sources to build Violent Extremist Organization knowledge graph
- Provided threat assessment near stadium

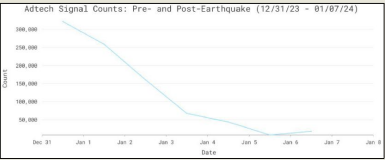
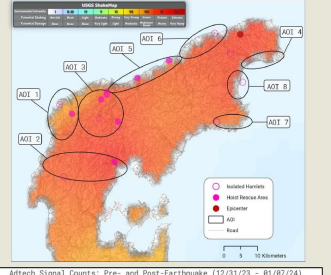
Current/Ongoing

AdTech* Signal Counts

The two graphs below represent:

1. Total analyzed AdTech signal counts by day.
2. Total analyzed AdTech signal counts by day and individual AOI.

The data indicate that immediately after the earthquake, there was a significant decrease in signal activity across the entire peninsula, and AOI 5 (Center to East area of Wajima City) experienced the most significant decrease among the eight AOIs.

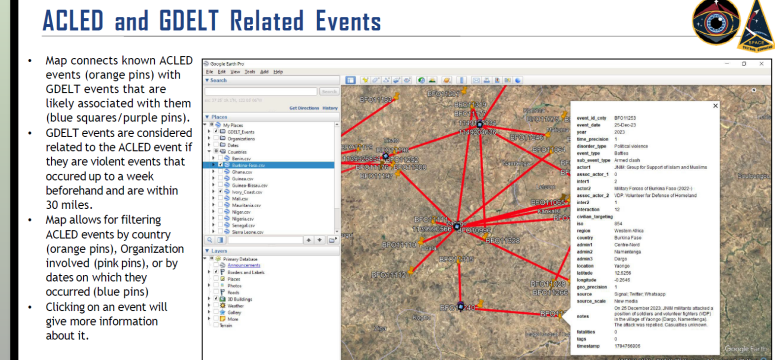



AdTech Data Source: 4D7 Analytics



ACLED and GDELT Related Events

- Map connects known ACLED events (orange pins) with GDELT events that are likely associated with them (blue squares/purple pins).
- GDELT events are considered related to the ACLED event if they are violent events that occurred up to a week beforehand and are within 30 miles.
- Map allows for filtering ACLED events by country (orange pins), Organization involved (pink pins), or by dates on which they occurred (blue pins)
- Clicking on an event will give more information about it.



Côte d'Ivoire Knowledge Graph DPP

Sources: ACLED, BOEEL and Google Earth

Areté SR+

TacSRT Pilot Concept Details



What We Are:

- Unclassified and Fully Releasable
 - Operates entirely in the Commercially Available Domain
 - Releasability and partner-sharing is managed by CCMD processes
- Rapidly Responsive
 - Goal: Product delivery in under 72 hours from tasking
- Complimentary to the IC
- Leveraging commercial capabilities to fulfil unmet needs

What We Are Not:

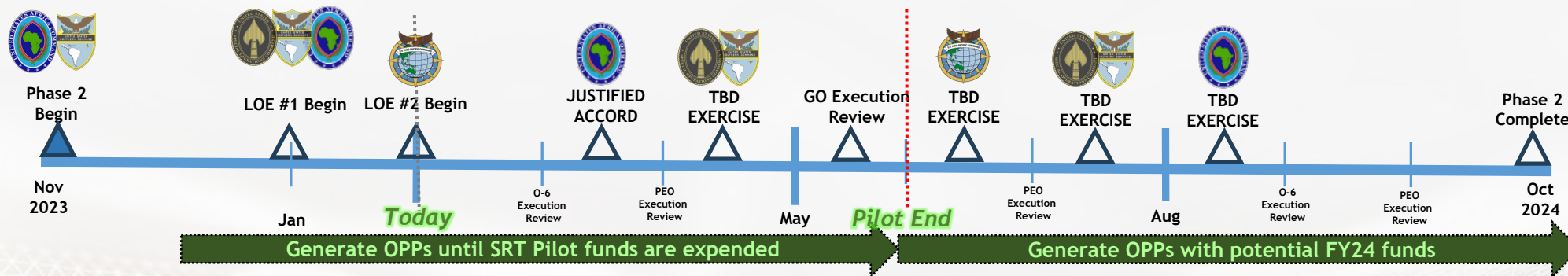
- An Intelligence Source:
 - SRT does not provide validated intel products
 - SRT operates outside of a classified environment
- Persistent & continuous monitoring
- Fused with classified sensing
- Duplicative of IC solutions & process
- Cannibalizing existing resources allocated to IC missions

Mission: Leverage Government-owned and commercial data to rapidly deliver unclassified, space-based sensing and analytics capabilities to CCMDs via the USSF's Space Components

TacSRT Pilot – Fielding Strategy



- **CUSTOMER:** Space Force Component Commands supporting Combatant Commands
- **FUNDING:** \$25M via SSC FY23 Funds (~6 months: \$21M for Data Buys/Tool Dev, \$4M to Establish Marketplace, BizOps & Personnel)
- **CONTRACT:** Global Data Marketplace (Blacksky, Capella, ICEYE, Maxar, Metaspectral, Pixxel, Planet, RoyceGeo, Space-Eyes, Umbra, Ursa, others)



SRT Phased Approach:

- ✓ Phase 1 (FY23): Proof of Concept - TacSRT stand-up, Marketplace growth, CONOPS development
 - ✓ Constructed wholistic TacSRT process with AFRICOM & participated in SOUTHCOM Exercise
- Phase 2 (FY24): TacSRT Initial Operational Capability
 - LOE #1 (SOUTHCOM, SOCOM, AFRICOM): CCMD Topics, Operational Exercises, Ad Hoc requests
 - LOE #2 (INDOPACOM): Sustainable, Persistent, Commercial SRT Capability
- Phase 3 (FY25): Establish acquisition strategy to support all SPACEFOR Operations
- Phase 4 (FY26): Establish Program Office to support SPACEFOR Operations

TacSRT Pilot – Engagement Strategy



CY2024	January	February	March	April	May	June
SPACEFOR-EURAF	<ul style="list-style-type: none"> SC #1 SC #2 SC #3 	<ul style="list-style-type: none"> SC #4 SC #5 SC #6 TN 	<ul style="list-style-type: none"> EX #1 SC #7 SC #8 	<ul style="list-style-type: none"> SC #09 SCB 	<ul style="list-style-type: none"> SC #10 TN 	<ul style="list-style-type: none"> SC #11
SPACEFOR-INDOPAC (SFIP)	<ul style="list-style-type: none"> Kick-Off Mtg TN 	<ul style="list-style-type: none"> SC #1 TN 	<ul style="list-style-type: none"> SC #2 	<ul style="list-style-type: none"> SC #3 SCB 	<ul style="list-style-type: none"> SC #4 EX #1 TN 	<ul style="list-style-type: none"> SC #5
SPACE FORCE ELEMENT – SOCOM (SOC)	<ul style="list-style-type: none"> Kick-Off Mtg TN 	<ul style="list-style-type: none"> SC #1 SC #2 TN 	<ul style="list-style-type: none"> SC #3 SC #4 SC #5 	<ul style="list-style-type: none"> EX #1 SC #6 SCB 	<ul style="list-style-type: none"> SC #8 SC #9 SC #10 TN 	<ul style="list-style-type: none"> SC #11
SPACE FORCE ELEMENT – SOUTHCOM (SOUTH)	<ul style="list-style-type: none"> Kick-Off Mtg TN 	<ul style="list-style-type: none"> SC #1 SC #2 TN 	<ul style="list-style-type: none"> SC #3 SC #4 SC #5 	<ul style="list-style-type: none"> SC #6 SC #7 SCB 	<ul style="list-style-type: none"> SC #8 SC #9 SC #10 TN 	<ul style="list-style-type: none"> EX #1
Support Cases (SC) SC = 03 Training (TN) TN = 03 Exercise Support (EX) EX = 00 Security Cooperation Brief (SCB) SCB = 00 Total (TOT) TOT = 06	Support Cases (SC) SC = 08 Training (TN) TN = 04 Exercise Support (EX) EX = 00 Security Cooperation Brief (SCB) SCB = 00 Total (TOT) TOT = 12	Support Cases (SC) SC = 09 Training (TN) TN = 00 Exercise Support (EX) EX = 01 Security Cooperation Brief (SCB) SCB = 00 Total (TOT) TOT = 10	Support Cases (SC) SC = 05 Training (TN) TN = 00 Exercise Support (EX) EX = 01 Security Cooperation Brief (SCB) SCB = 04 Total (TOT) TOT = 10	Support Cases (SC) SC = 08 Training (TN) TN = 04 Exercise Support (EX) EX = 01 Security Cooperation Brief (SCB) SCB = 00 Total (TOT) TOT = 13	Support Cases (SC) SC = 03 Training (TN) TN = 00 Exercise Support (EX) EX = 01 Security Cooperation Brief (SCB) SCB = 00 Total (TOT) TOT = 04	

January Activities

- ✓ (05-15 Jan) EURAF SC #1
- ✓ (10-20 Jan) EURAF SC# 2
- ✓ (17 Jan) SOUTH Kick-Off Mtg
- ✓ (19 Jan) SOUTH Training
- ✓ (20-30 Jan) EURAF SC# 3
- ✓ (23 Jan) SFIP Kick-Off Mtg @ SFIP HQ
- ✓ (23 Jan) SOC Kick-Off Mtg @ SOC HQ
- ✓ (25 Jan) SFIP Training
- ✓ (25 Jan) SOC Training

February Activities

- (Feb) EURAF SC #4
- (Feb) EURAF SC# 5
- (Feb) EURAF SC# 6
- (Feb) EURAF Training
- (Feb) SFIP SC# 1
- (Feb) SPIF Training
- (Feb) SOC SC# 1
- (Feb) SOC SC# 2
- (Feb) SOC Training
- (Feb) SOUTH SC# 1
- (Feb) SOUTH SC# 2
- (Feb) SOUTH Training

March Activities

- (Mar) EURAF EX# 1
- (Mar) EURAF SC# 7
- (Mar) EURAF SC# 8
- (Mar) SPIF SC# 2
- (Mar) SOC SC# 3
- (Mar) SOC SC# 4
- (Mar) SOC SC# 5
- (Mar) SOUTH SC# 3
- (Mar) SOUTH SC# 4
- (Mar) SOUTH SC# 5

April Activities

- (Apr) EURAF SC Brief
- (Apr) EURAF SC# 9
- (Apr) SFIP SC Brief
- (Apr) SFIP SC# 3
- (Apr) SOC EX# 1
- (Apr) SOC SC Brief
- (Apr) SOC SC# 6
- (Apr) SOUTH SC Brief
- (Apr) SOUTH SC# 6
- (Apr) SOUTH SC# 7

May Activities

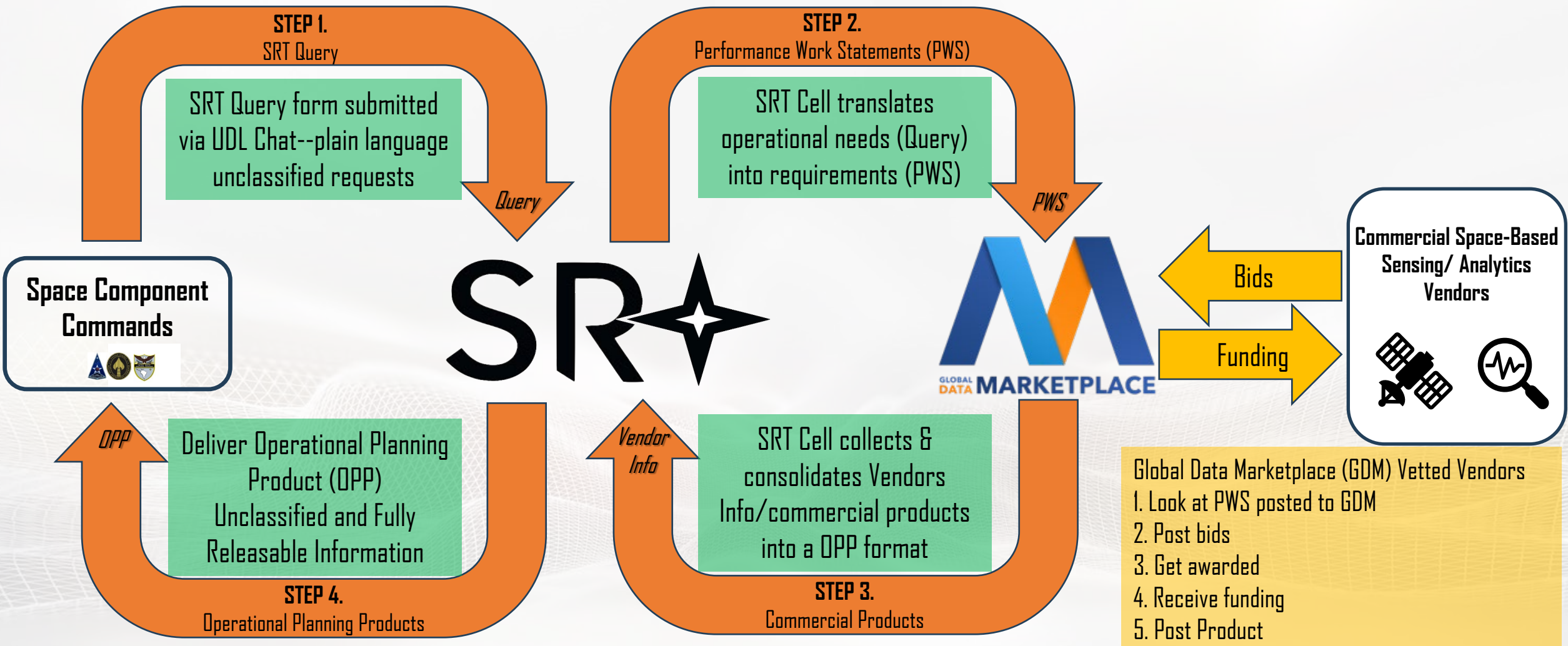
- (May) EURAF SC# 10
- (May) EURAF Training
- (May) SFIP EX# 1
- (May) SPIF Training
- (May) SPIF SC# 4
- (May) SOC SC# 8
- (May) SOC SC# 9
- (May) SOC SC# 10
- (May) SOC Training
- (May) SOUTH SC# 8
- (May) SOUTH SC# 9
- (May) SOUTH SC# 10
- (May) SOUTH Training

Jun Activities

- (Jun) EURAF SC# 11
- (Jun) SFIP SC# 5
- (Jun) SOC SC# 11
- (Jun) SOUTH EX# 1



TacSRT Cell Operational Cycle



<72 hours from receiving a Space Component SRT Query to delivery of an Operational Planning Product (OPP) to Space Component



Global Data Marketplace

Global Data Marketplace

- Web-based, one-stop-shop interface that allows the SRT Cell to advertise, award, and fund short-term surveillance, reconnaissance, and tracking contracts with commercial vendors
- Creates a rapidly responsive/highly competitive environment ensuring the SRT Cell awards to the most cost-effective bidders.
- Global Data Marketplace (includes: Blacksky, Capella, ICEYE, Maxar, Metaspectral, Pixxel, Planet, RoyceGeo, Space-Eyes, Umbra, Ursa, others)

On-Boarding (Pre-Pilot Preparation)

SRT Cell (Customers)

1. Creates Global Data Marketplace user and organizational account
2. Secures and loads funds onto the marketplace

Prospective Vendors (Providers)

1. Requests/obtains vendor marketplace account
2. Advertises imagery and analytics capabilities

LOE #1 Start

Time Now!

SRT Cell Process <72 Hours

(Contract Writing → Vendor Bidding/Selection → Product Delivery in Under 72 Hours)

Contracting

SRT Cell

1. Translates Component Command requirements into Performance of Work Statements (PWS)
2. Publishes PWSs on the marketplace

Approved Vendors

1. Reviews PWS
2. Submits bid on marketplace (if able to meet requirements)

Execution

SRT Cell

1. Reviews bids using standardized evaluation metrics
2. Awards bid in marketplace to most viable vendor(s)

Awarded Vendor(s)

1. Executes contract and works with SRT Cell to refine commercial products
2. Publishes analyzed sensing products to the Unified Data Library for customer access

TacSRT is Funded and Executing on the Global Data Marketplace Now!