

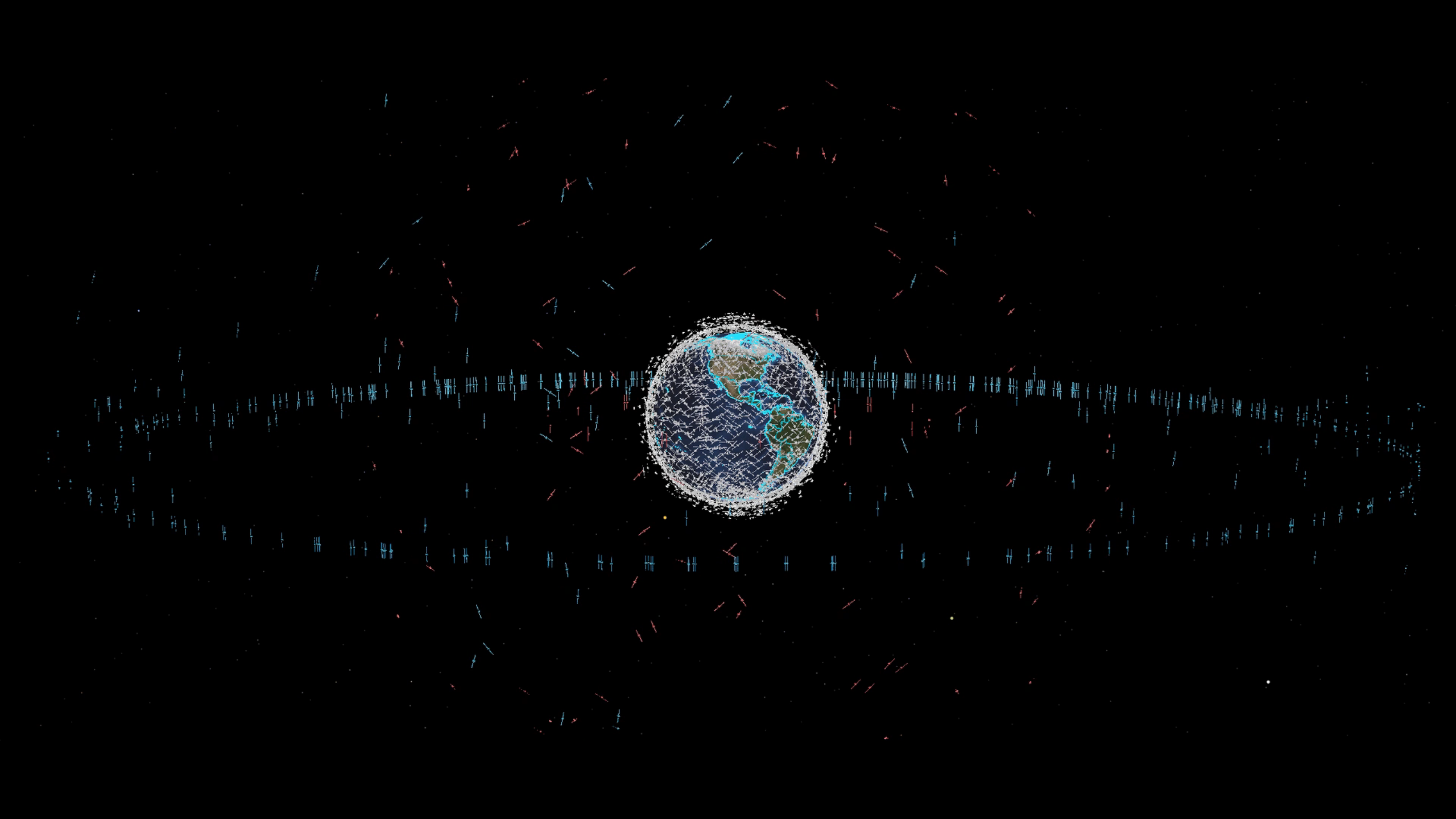


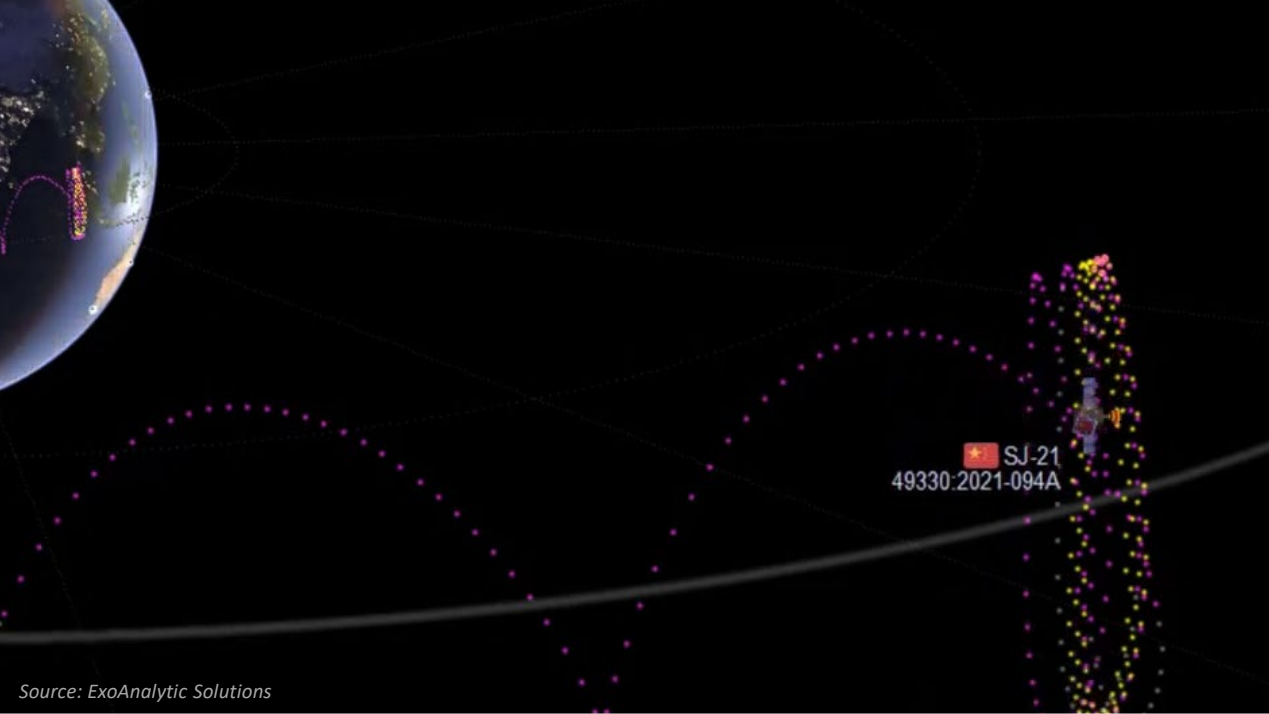
SPACE TRAINING AND READINESS COMMAND

# Avoiding a failure of imagination

BRIGADIER GENERAL TODD MOORE



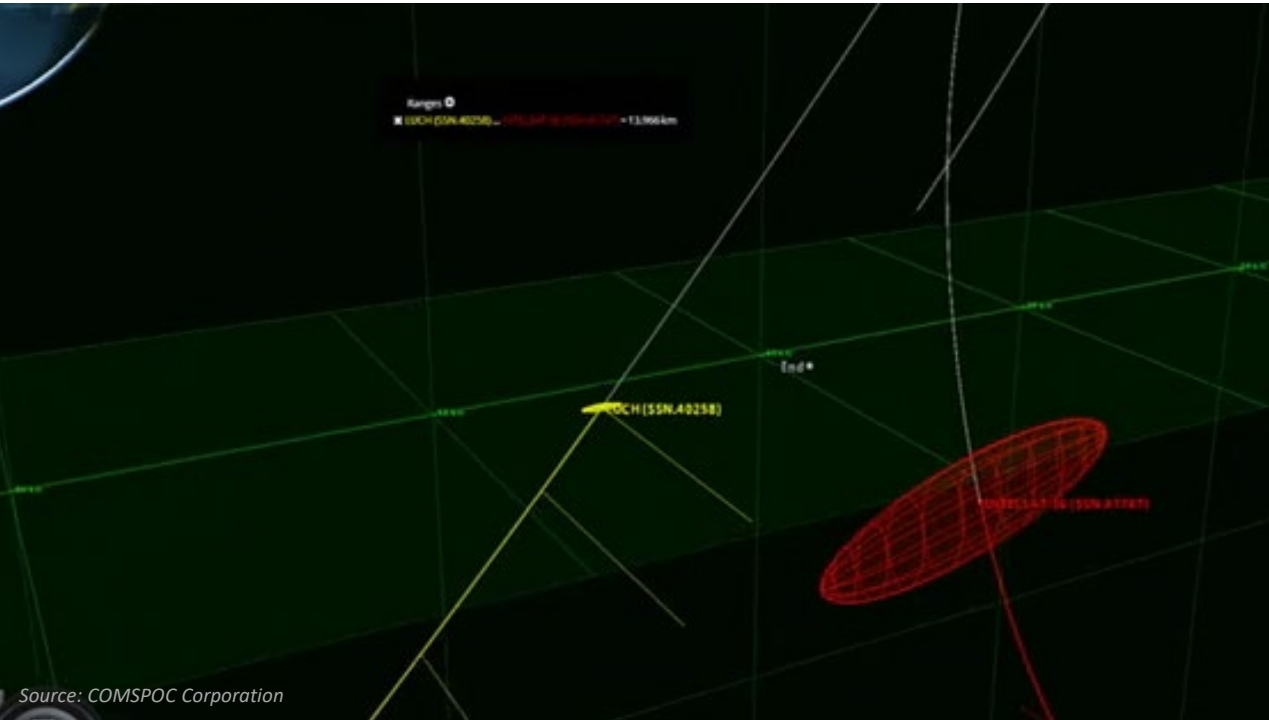




Source: ExoAnalytic Solutions



Source: AGI, An Ansys Company



Source: COMSPOC Corporation



Source: TechCrunch



Source: Science.org



Headquarters



Acquisitions



Readiness



Operations



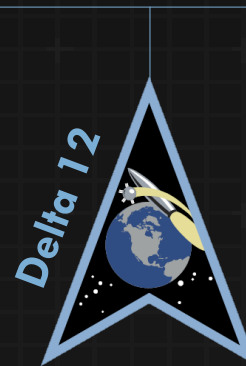
Training



Doctrine/Wargaming



Range/Aggressor



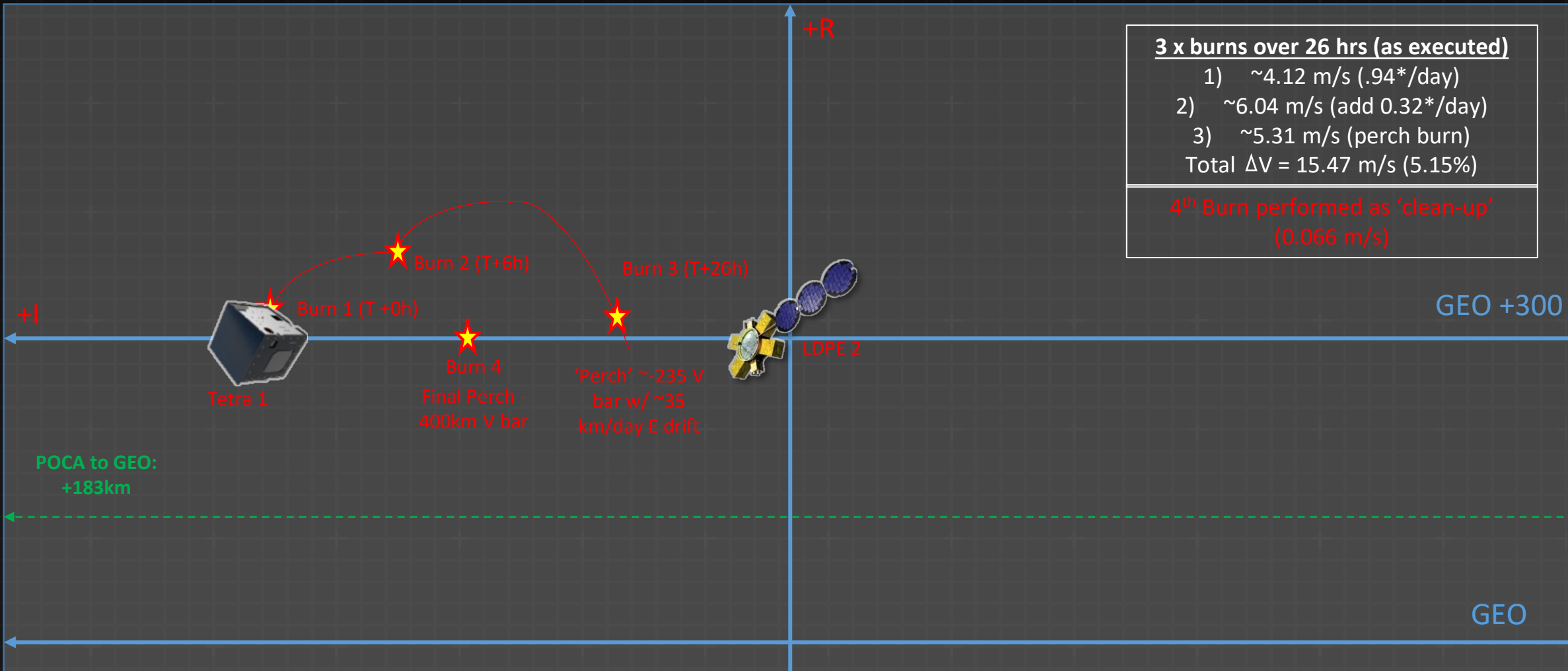
Test/Eval



Education







**3 x burns over 26 hrs (as executed)**

- 1) ~4.12 m/s (.94\*/day)
- 2) ~6.04 m/s (add 0.32\*/day)
- 3) ~5.31 m/s (perch burn)
- Total ΔV = 15.47 m/s (5.15%)

4<sup>th</sup> Burn performed as 'clean-up' (0.066 m/s)

+|

+R



Burn 1 (T+0h)



Burn 2 (T+6h)



Burn 4  
Final Perch -  
400km V bar



Burn 3 (T+26h)

'Perch' ~-235 V  
bar w/ ~35  
km/day E drift



LDPE 2

GEO +300

POCA to GEO:  
+183km

GEO



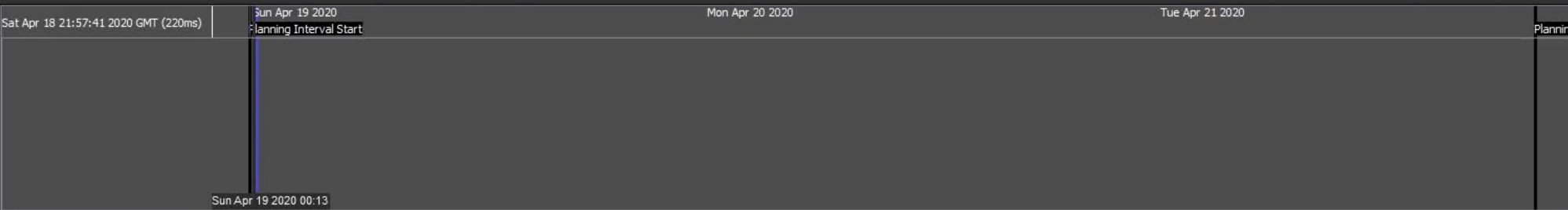


Entity dv (m/s) dt (hh:mm:ss)  RSOs

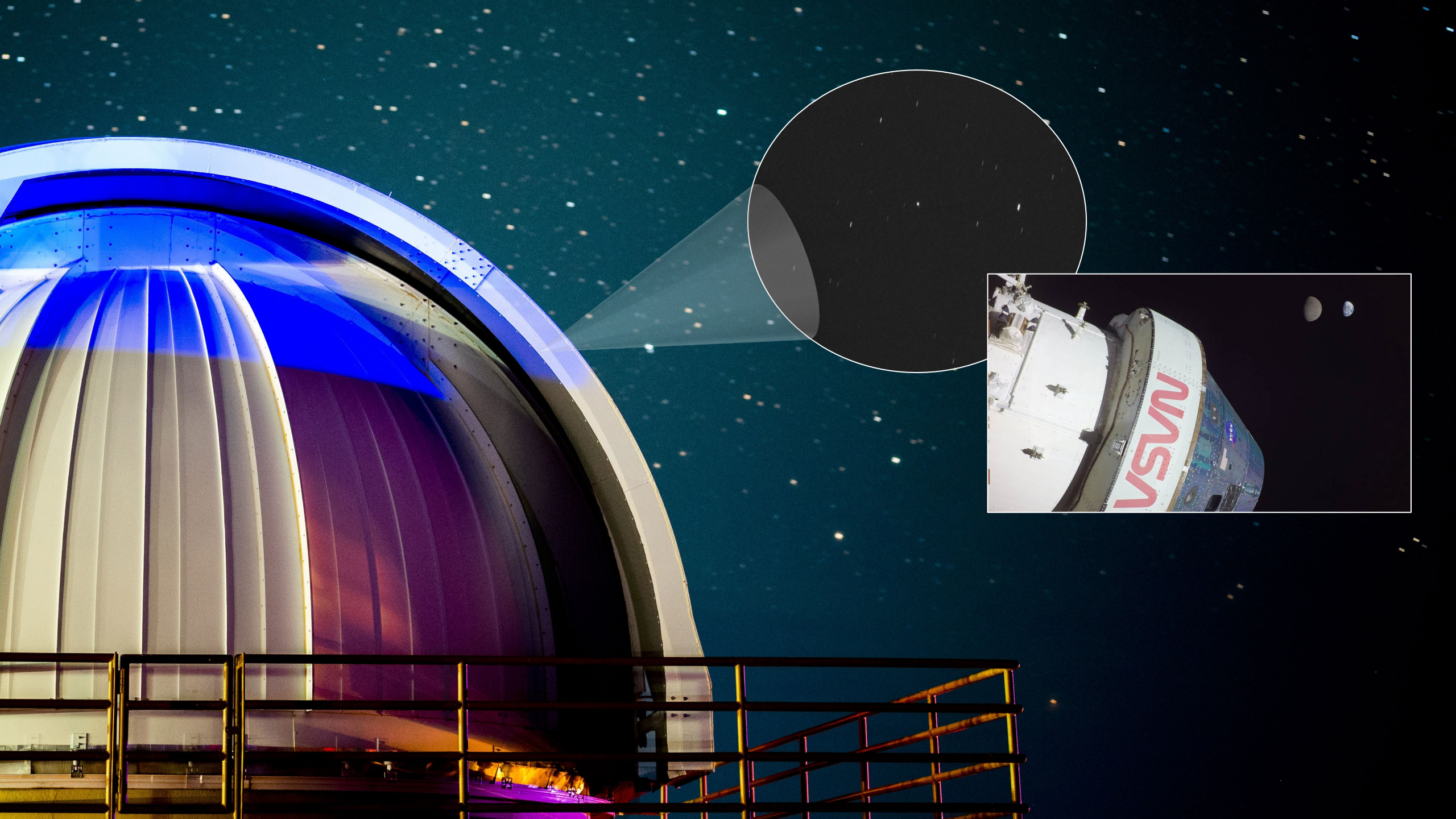
3D View Orthographic View Schedule  Planning Context  Refined Context Planning Interval Start: 2020-04-19T00:00:00Z Planning Interval End: 2020-04-21T19:57:06Z Camera Center: Earth Reference Frame: J2000 ECI Run Plans



Apogee Bump Perigee Drop V-Bar Perch R-Bar Perch Rel-Pos Perch FMC NMC Add Planning Segment Add Event Reset Zoom



Speed 1x 2020-04-19T00:13:15Z UTC



# OTTI Training Lines of Effort

OTTI Strategic Requirements Document



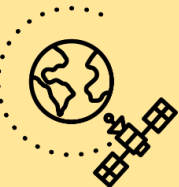
## LOE 1 Develop Effective System Trainers

- ID'ing training system gaps
- Prioritizing trainers based on threat
- ID'ing needed M&S tools for sims



## LOE 2 Connect All Trainers and Exercises

- Building initial training scenario
- ID'ing needed integration for trainers
- Mapping data/network security needs
- Engaging with JSE on interoperability



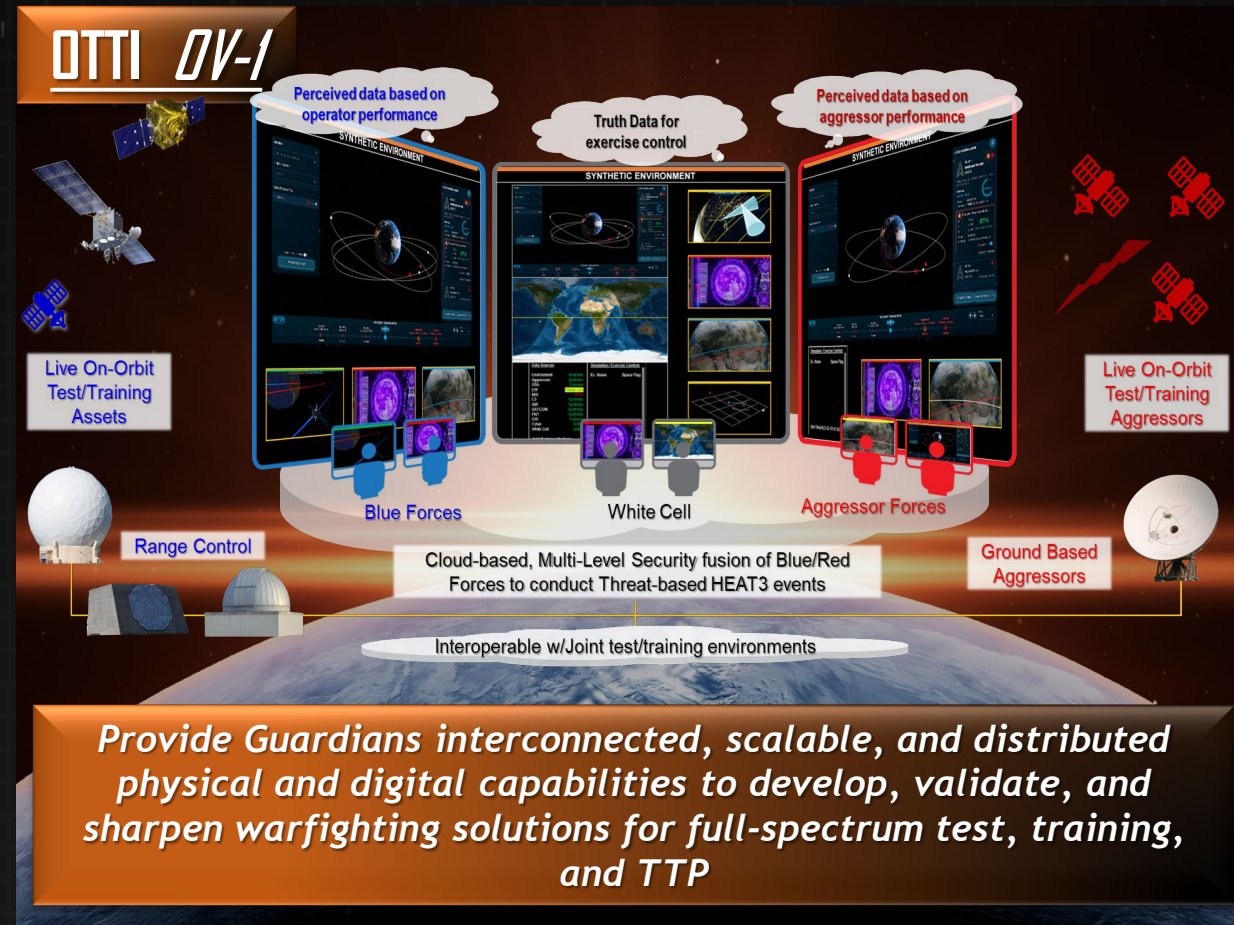
## LOE 3 Visualize the Space Environment

- Defining visualization CONOPS
- Building digital twin requirements
- Developing visualization roadmap



## LOE 4 Train Against a Representative Threat

- Prioritizing threat model needs
- Building model provider network
- ID'ing model roles/responsibilities

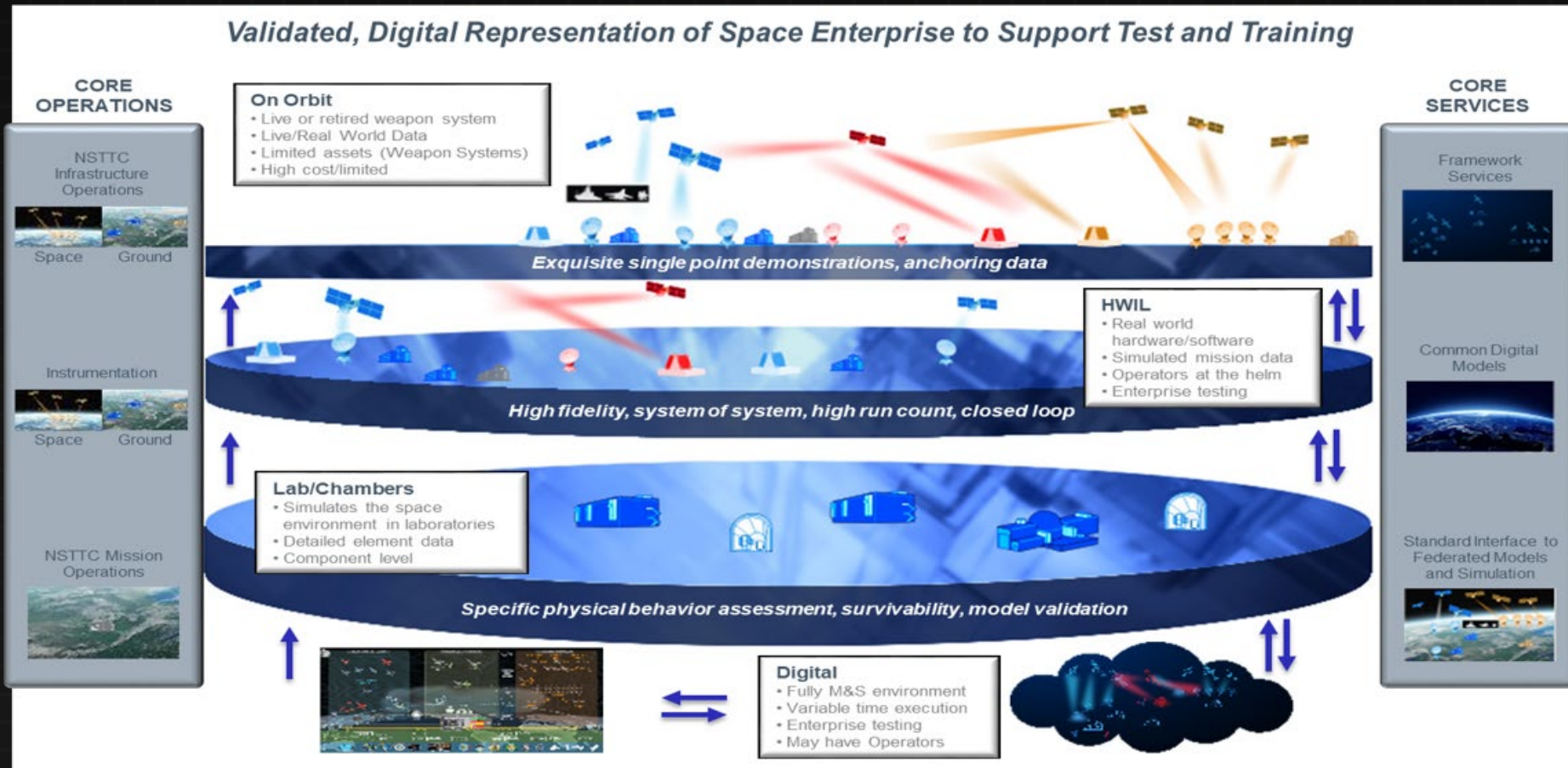


1. Execute High-End Advanced Training, Test, and Tactics Development (HEAT3) to generate and field combat-ready forces
2. Operational concept development, refinement, and validation (e.g., BMC2, SDA, Space Superiority, etc.)
3. OTTI environment can serve as risk reduction capability to solve institutional challenges (Enterprise Data, networks, MLS, ...)

# OTTI Test Lines of Effort

## National Space Test and Training Complex (NSTTC)

### Lines of Effort



Orbital Range (NSTTC-O)

Electromagnetic Range (NSTTC-E)

Cyber Range (NSTTC-C)

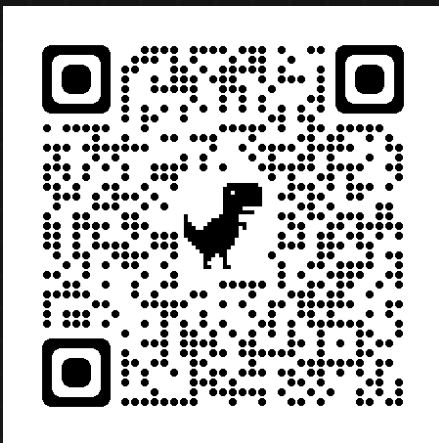
Special Projects

Digital Complex (NSTTC-D)

# Upcoming Events

## First quarter of CY2024

- RFP release
- Industry Day



**STARCOM website**



**SSC Front Door**

A view of Earth from space, showing the curvature of the planet and the atmosphere. A bright sun is visible on the left side, creating a lens flare effect. The sky is filled with numerous stars of varying brightness. The text is overlaid on the right side of the image.

**“Astropolitics is the new arena,  
limited only by our imagination,  
acknowledging the limits and  
overcoming them”**