



THE COLOSSEUM

Proactive defense and operations.

Spartan X is developing Colosseum as a facility and center for proactive space and cyber defense operations: advancing protections, evolving legacy defenses, and evaluating new technology for mission use.

Program status: Services are not yet active. This overview describes the planned program and future engagement opportunities.

One connected mission environment

The planned core combines a cyber range and a space range in one mission theater. Digital twins of spacecraft, communications, and ground systems would support development of defenses and assessment of mission effects across connected assets.

SPACE ASSETS / COMMUNICATIONS / GROUND & CYBER

Multiple digital twins. Shared scenarios. Mission effects.

A major focus: modernizing legacy space systems

Evolving the defenses of existing assets is central to the program. The planned effort would identify weaknesses, engineer practical protections, and support operator-authorized improvements throughout the asset's operational life, including where onboard upgrades are constrained.

Assess: Map assets, dependencies, vulnerabilities, and operating constraints.

Develop and evaluate: Explore improvements in representative environments and assess security, compatibility, and mission effects.

Plan and evolve: Support operator-controlled upgrade planning and verification, then reassess protections as threats and requirements change.

Findings depend on model fidelity, available data, and scenario assumptions. Operational decisions and implementation authority remain with the customer.

Work directed toward the mission

Test & evaluate — Assess components, software, firmware, integration, and resilience against representative conditions and threats.

Train & exercise — Role-based exercises, red / blue / purple teaming, leadership wargaming, and replay.

Assess response options — Reproduce a current issue safely and compare estimated effects before operational action.

Engineer for assurance — Architecture trade studies, security requirements, design reviews, and lifecycle regression testing.

Engagement across the space ecosystem

The program includes a distributed-access concept for component evaluation, supporting participation by operators, manufacturers, and smaller technology developers. Technical integration and participation arrangements are topics for a focused briefing. Evaluation is intended to support mission-readiness decisions; deployment and approval authority remain with the responsible organizations.

Program direction

Current stage: Program development; services are not yet active.

Core purpose: Proactive defense, operational readiness, and evolution of protections for space systems.

Longer-term direction: Authorized operational protection against active threats.

Explore the opportunity

Prospective government, space, and commercial customers can discuss future requirements. Technical collaborators can explore the architecture and component-evaluation model. Investors and strategic partners can discuss the roadmap, reusable libraries, distributed access, and planned service portfolio.

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