Orbital Dominance & Strategic Stability

Re-evaluating Counterspace Capabilities in Modern Space Deterrence

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SLIDE 01 • COUNTERSPACE ARCHITECTURE

The Offensive Counterspace Spectrum

Kinetic Direct-Ascent

Physical destruction of high-value satellites via missile interceptors.

Co-Orbital RPO

Dual-use proximity operations enabling inspection, jamming, or grappling.



Directed Energy

Ground and space lasers for sensor blinding and structural degradation.

Cyber & EW Operations

Non-kinetic downlink spoofing, telemetry takeover, and uplink jamming.

Shift from Punishment to Resilience

LEGACY MODEL

Deterrence by Punishment

Threat of symmetrical or cross-domain retaliation against aggressor assets.

Fragility: High-value exquisite satellites remain prime targets.

Instability: Incentivizes preemptive first strikes during crisis.

EMERGING MODEL

Deterrence by Denial

Denying adversary operational benefit through proliferated LEO architectures.

Resilience: Multi-node constellations neutralize single-point failure.

Cost Imbalance: Interceptor cost exceeds targeted node value.



Orbital Risks & Environmental Hazards

Kessler Syndrome Hazard

Kinetic ASAT strikes generate self-sustaining debris cascades, permanently threatening vital operational orbits.

Crisis & Miscalculation

Dual-use co-orbital proximity operations create attribution ambiguity and compress decision timelines.

Cross-Domain Escalation

Targeting strategic early warning or PNT infrastructure lowers thresholds for terrestrial nuclear response.



SLIDE 04 • SUMMARY & OUTLOOK

Preserving Strategic Stability in Earth Orbit

01. Architectural Denial

Prioritize LEO proliferation and dynamic maneuvering to neutralize offensive value.

02. Normative Rules

Establish clear international norms against kinetic ASAT testing and unannounced RPO.

03. De-escalation

Incorporate space operations into bilateral crisis management protocols.

Thank You • Questions & Discussion