

Strengthening the Arsenal of Deterrence



Strengthening the Arsenal of Deterrence – Modernizing the DoD Munitions Requirements Process to Include Allied Equipping

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USS Arizona

One of four battleships equipped with dual tripod masts. She relied entirely on optical fire control since radar was not yet fielded.



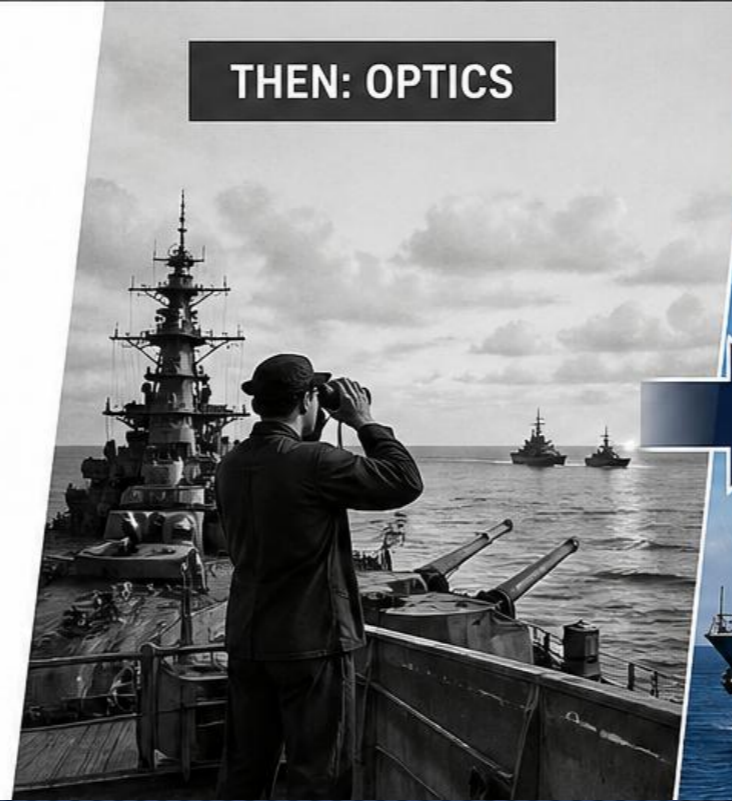
Commissioned: Oct 17, 1916 | Sunk in action: Dec 7, 1941

Image from: <https://www.history.navy.mil>

Early Innovation

Early battleships were designed before radar.

No one argued we should keep fighting with optics because ships were originally designed that way.



THEN: OPTICS

TODAY: RADAR



Modern Innovation

We modernize weapons when the threat changes; why would we freeze planning processes in time?



Image generated with ChatGPT (OpenAI, 2026)

Adapt our processes. Strengthen our advantage. | Stay relevant. Stay ready.

Research Question

How can the Department of Defense modernize the Munitions Requirements Process to incorporate coalition demand signals and allied industrial capacity while preserving the institutional separation between Title 10 operational planning and Title 22 security cooperation authorities?

Institutional Design and Architecture of Requirements: Implications for Deterrence Credibility



Key takeaway What appears downstream as an industrial capacity problem often begins upstream in how the requirements process generates demand signals.

Structural Fault Line: Title 10 and Title 22 Dimensions

Dimension	Title 10	Title 22
Purpose	Equip the U.S. Joint Force to achieve operational objectives	Enable partner capacity and support strategic deterrence
Strategic Objective	Mitigate operational risks in executing contingency operations	Mitigate diplomatic and escalation risks
Time Horizon	Forecast-based expenditures in executing approved war plans	Case-by-case transfers driven by real-time contingencies
Demand Source	Combatant Command OPLAN requirements	Partner requests and political prioritization
Budgeting	PPBE / POM processes	Security assistance and assistance accounts

Key takeaway Both systems rely on the same industrial base but generate demand separately.

Structural Fault Line: Title 10 and Title 22 Pathways



Coalition Munitions Integration Framework (CMIF)

Rearchitecting the Munitions Requirements Process for Coalition-integrated Deterrence



Future Research Opportunities



Improved Forecasting

Operationalizes readiness and enables persistent deterrence



Sensitivity Analysis

Allied/partner participation
Burden-sharing



Data Sharing

Governance mechanism for data classification and releasability



Co-Production

Distributed production
Relevant posture
Surge capacity