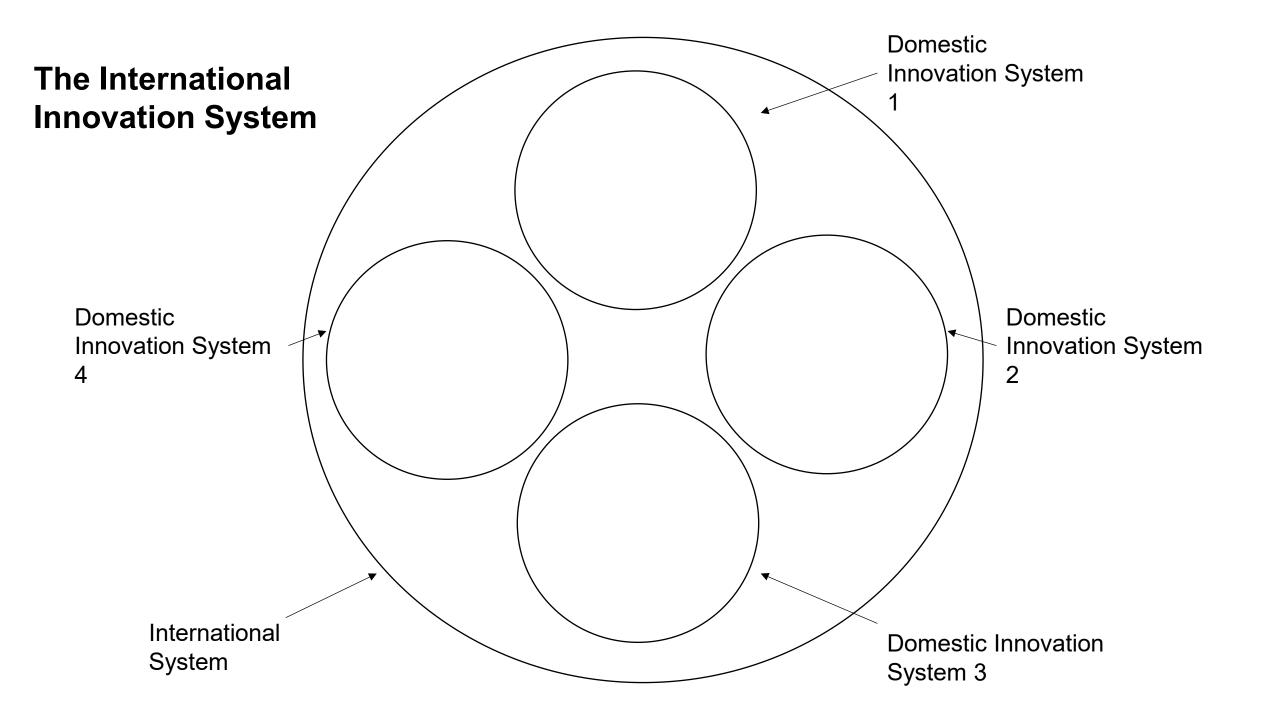
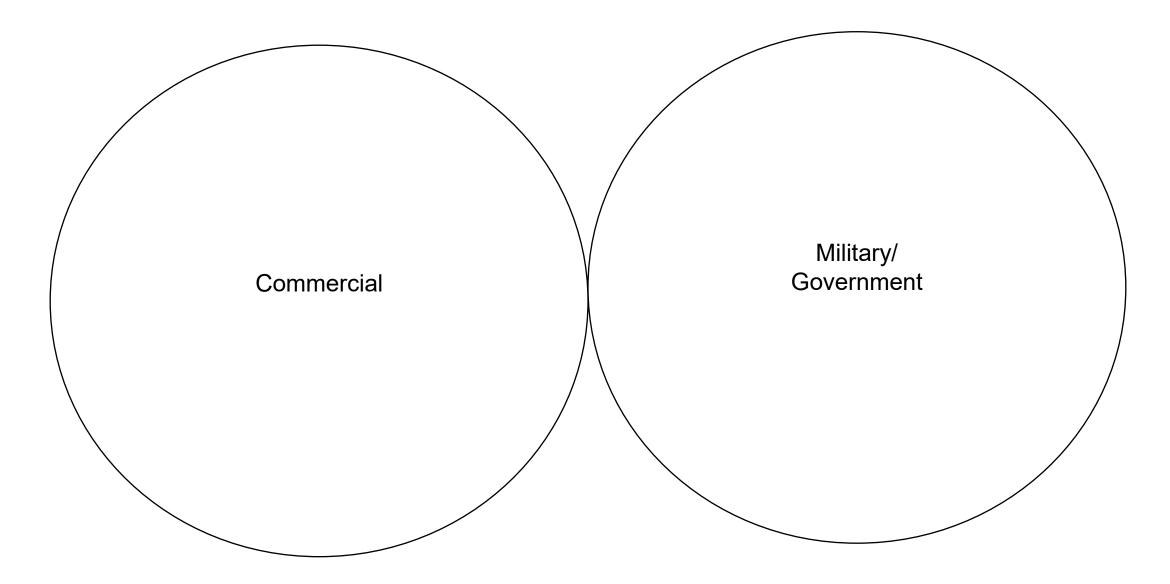
Developing a Model of National Security Innovation: Systems, Enablers, and Types

William Greenwalt Senior Fellow American Enterprise Institute What is Defense Innovation?

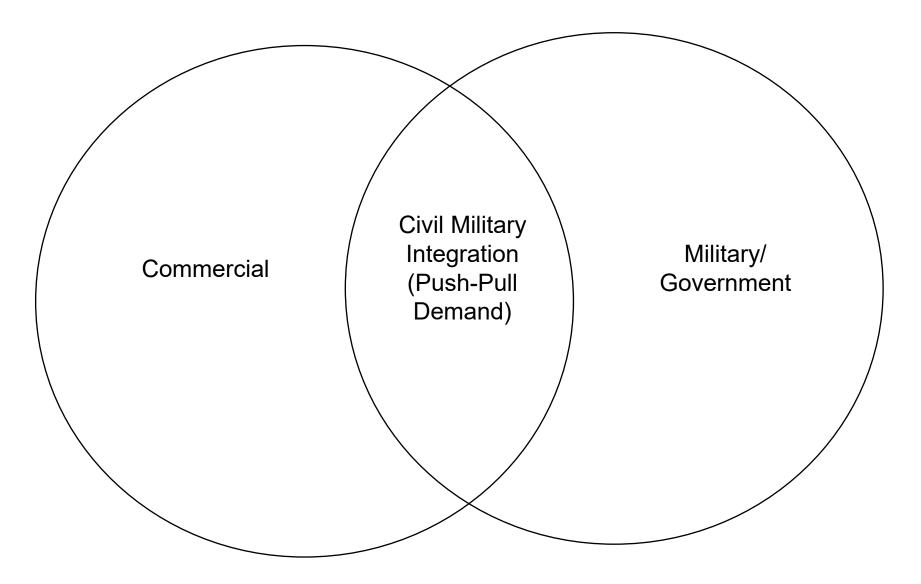
Not Invention Capabilties-Based (Thing or Process) Provides Advantage Over Previous Iteration

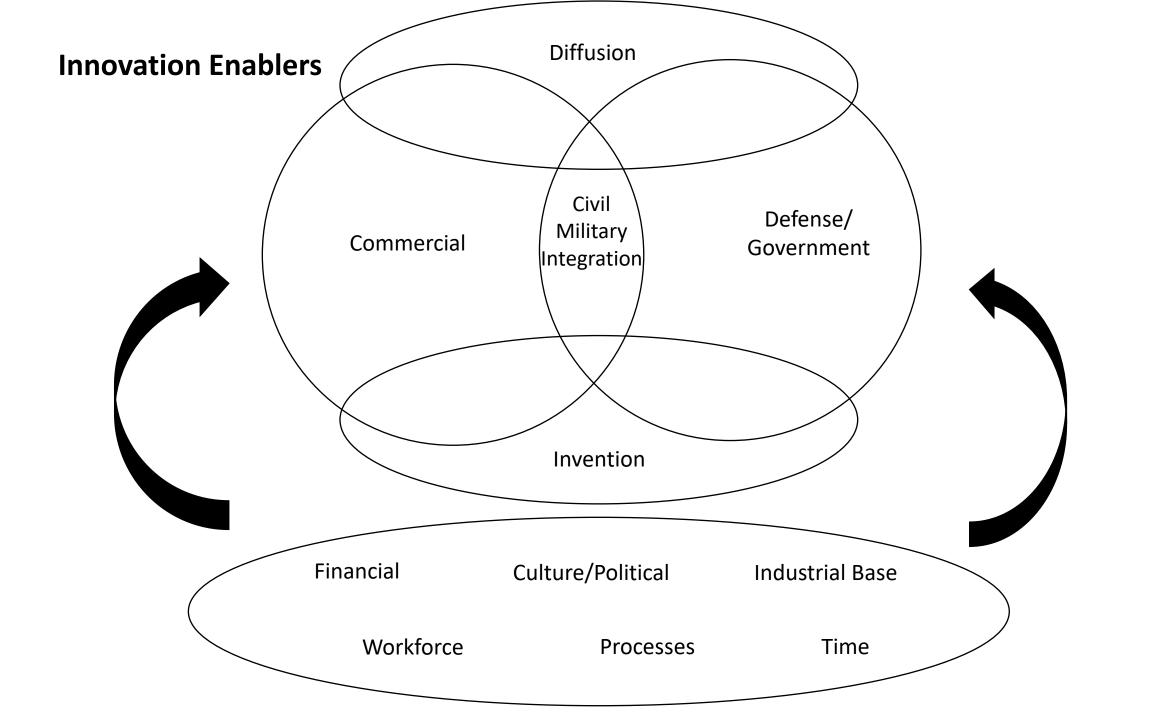


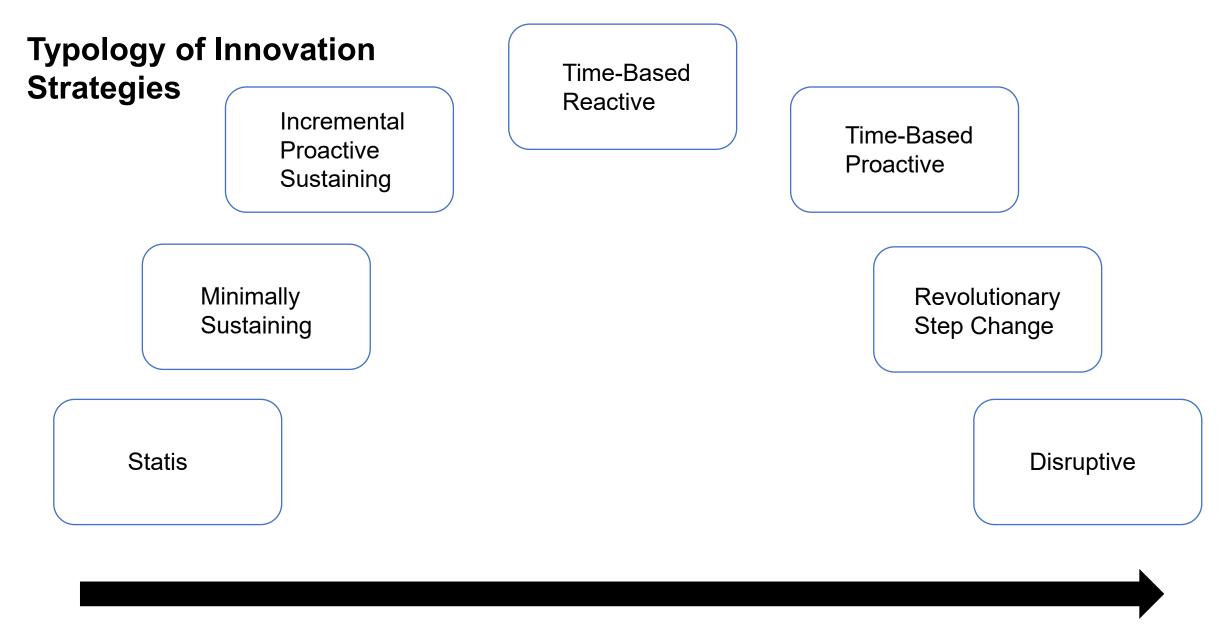
The Domestic Innovation System



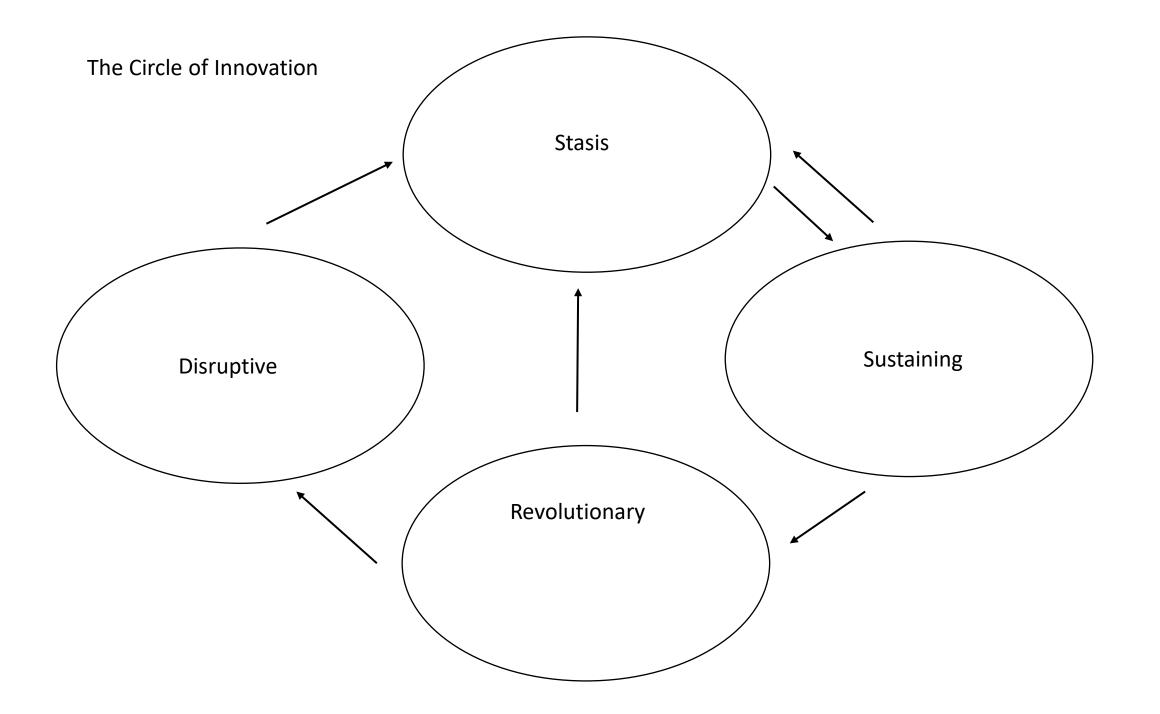
The Civil-Military Integration Innovation System







Cultural Change



Time Period	US Innovation Trends and Types
World War II	Defense: Emergency Time-Based Reactive, Time-Based Disruptive
	Commercial: CMI to Defense, Subsidized Retooling
Early Cold War (1945-1960)	Defense: Serial Time-Based Operational Prototype Disruptive
	Commercial: Innovation Statis, Sales Expansion to Meet Pent-up Demand
Late Cold War (1960-1990)	Defense: Beginning of Arms Control Statis and Minimally Sustaining Proactive Model
	Industrial Commercial: Statis and Decline then Emergency Time Based Reactive Once Disrupted Japan Challenge (1970s Proactive Quality Process) Emergency Reactive
	Silicon Valley: CMI from Defense, Serial Time Based Disruptive (Moore's Law)
Post-Cold War Pax USA (1990-2014)	Defense: Stasis (Peace Dividend), Minimally Sustaining Predictive GWOT: Emergency Reactive (MRAP/RAA)
	Industrial Commercial: Minimally Sustaining China Outsourcing Strategy
	Silicon Valley: Serial Time Based + VC Disruptive
US Hegemony Challenged (2014-2025)	Defense: Stasis and Expanded Evolutionary Predictive Creation of Time Based and Disruptive Alternatives (Production OTA/MTA/Software Pathway)
	Industrial Commercial: Emergency Reactive, Supply Chain Disruption, China Risk Reduction and Decoupling (Friend-shoring, Insourcing)
	Silicon Valley: Serial Time Based + VC Disruptive