

Tactics to Strengthen the US Defense Industrial Base With Private Capital

7 May 2025

Sam Moyer, Research Fellow NDIA Emerging Technologies Institute

NDIA Emerging Technologies Institute

EMERGING TECHNOLOGIES INSTITUTE

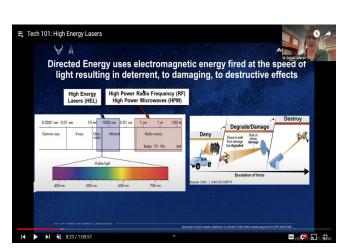
- Within NDIA, Largest Trade Association of Defense Contractors
- Focus on emerging technologies and how they will shape the future of national defense
- Working with NDIA Chapters/Divisions and Outside Partners
- Policy-focused and Technical Webinars, Workshops, Short Courses
- Studies and Reports
- Podcasts on Technical and Policy Issues
- Annual Emerging Technologies Conference







Conference: HON. William "Mac" Thornberry & HON. Kathleen Hicks



Tech 101: High Energy Lasers

Mailing List



Website



Podcast





Research Topic and Methodology

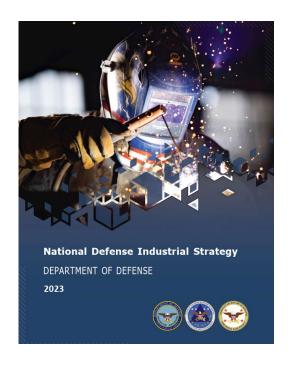


Structured overview of well-established, as well as emerging tactics that the DoD uses to engage private capital.

- Interviews with 30+ individuals:
 - > Private equity, venture capital, commercial banking, and others
 - > Investor-backed companies in multiple defense sub-sectors
 - > Government personnel with experience engaging private capital

Importance of Private Capital





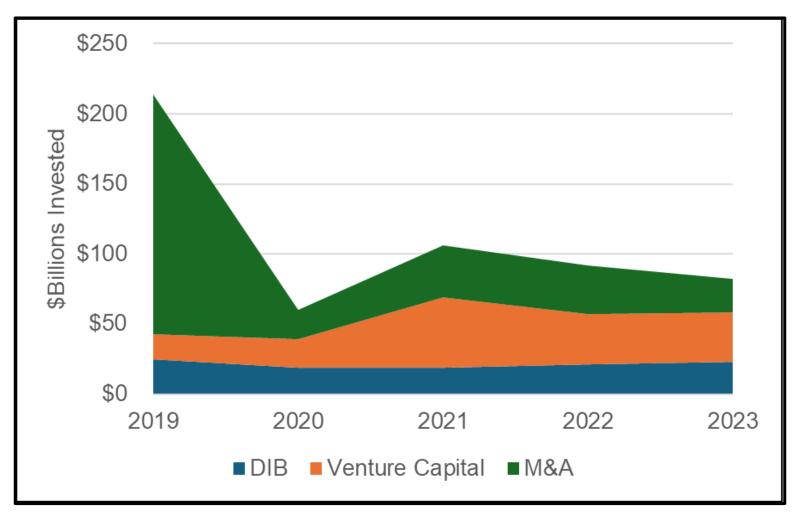
"We need to build a modernized industrial ecosystem that includes... finance streams, especially private equity and venture capital." – 2023 National Defense Industrial Strategy

Benefits of private capital in the DIB

- China overall economic investment rate is 43%, USA is 20%
- Support US R&D and capital expenditures
- Provide exit markets to founders to stimulate upstream investment
- Reduce fragility of DoD supply chains with lower cost of capital
- Assist with commercialization & tech transition
- Diversify funding sources for companies
 & reduce CR risk

Private Capital Trends in Defense Sector





Findings Overview: Proposed Taxonomy of DoD Tactics for Engaging Private Capital



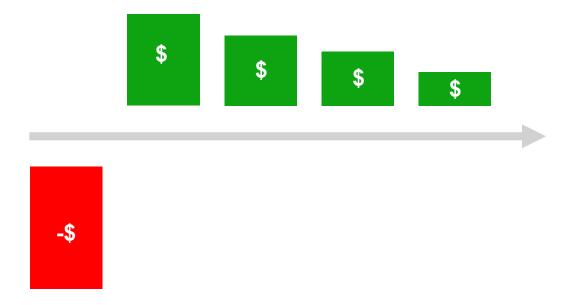
- 1. **Demand signal enhancement:** reduce uncertainty about the size, timing of future defense sales, to improve the financial case for private investment.
- 2. Catalytic capital: "crowd in" private capital by acting as a signal of confidence and reducing financial downside risk
- **3. Dealmaking capabilities:** act as a more predictable and responsive customer.

Finance 101: How investors see demand signal



Investors are purchase a series of cash flows, which are more valuable when:

- ...they are less risky
- ...they arrive nearer in time the "time value of money!"



Tactic #1: Demand Signal Enhancement



- Reports & rhetoric
- Test and experimentation events
- Memoranda of understanding (MOUs and MOAs)
- Demand aggregation
- Fixed price contracts
- Prizes
- Multi-year appropriations authority
- Advance procurement
- Multi-year procurement
- Securitization of leases

Tactic #1: Demand Signal Enhancement: Case Study: Demand Aggregation



- Office of Industrial Base Policy (IBP) Manufacturing Capability Expansion and Investment Prioritization (MCEIP) Directorate
- Leveraged \$177 million in private capital so far against \$7 million DoD dollars (25:1)
- Private investment dollars created onshore production facilities for 12 essential chemicals for DoD
- DoD aggregated its demand signal with US commercial industry buyers, presenting a large combined demand signal at workshop events

Tactic #2: Catalytic Capital



- Investment capital as pre-award criteria
- Federal, state and local credit programs
- Investment matching
- Government equity investing

Case Study of Catalytic Capital: X-Bow Strategic Financing (STRATFI)





X-Bow flight test, 2022

- Catalytic capital offered by Air Force SBIR (AF Ventures) and another Air Force end user
- Leveraged \$27 million in private capital against \$54+ million DoD dollars
- Private investment dollars to enable rapidly 3D printed, low-cost solid rocket motors (SRMs) and culminate in a flight test series
- Matching dollars catalyzed investment into X-Bow

Tactic #3: Dealmaking Capabilities



- Private capital ecosystem development programs
- M&A regulatory environment
- Data and information technology tools (e.g. market intelligence, supply chain risk analysis)
- Leadership
- Being a good customer (e.g. nontraditional contracting regimes)
- Training and culture



Next steps

- Please reach out if you have input
- smoyer@ndia.org

