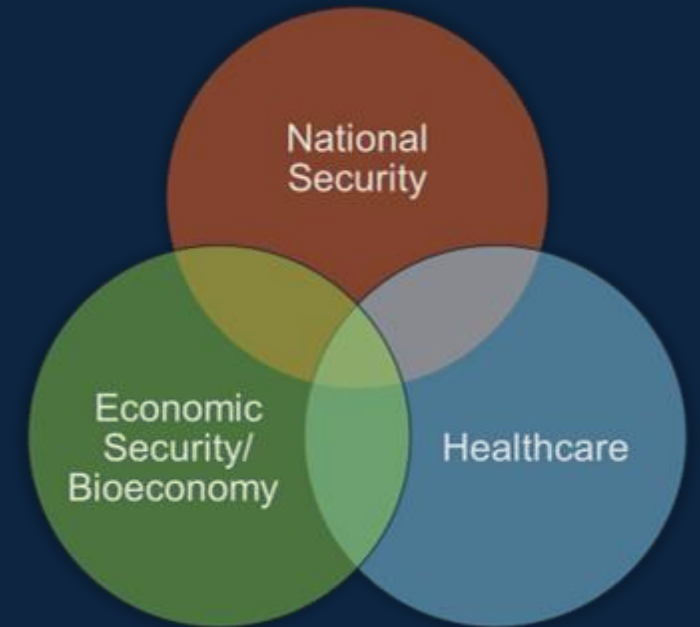


Geopolitics and the Global Biopharmaceutical Supply Chain

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Executive Director, Global Health Security & Biotechnology

16 February 2023



25th International Generic and Biosimilar Medicines Association (IGBA) Annual Conference

Biopharma Has Been Undervalued as a Strategic Component of the National Security Industrial Base

Report assessing the Manufacturing and Defense Industrial Base and Supply Chain Resiliency of the United States (Executive Order 13806)

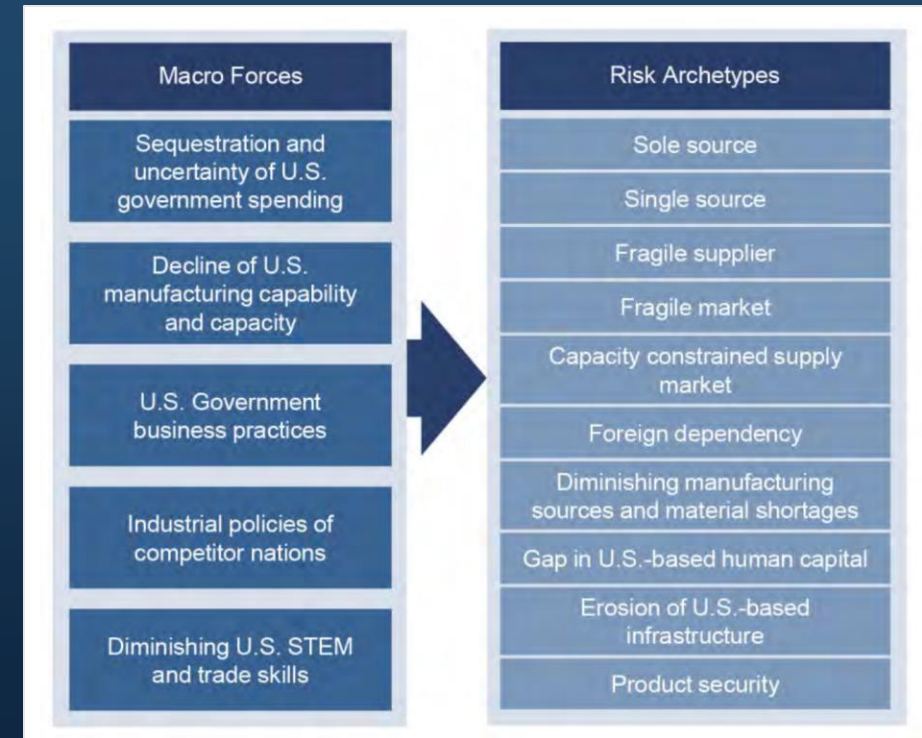


Sections Covered in the Report:

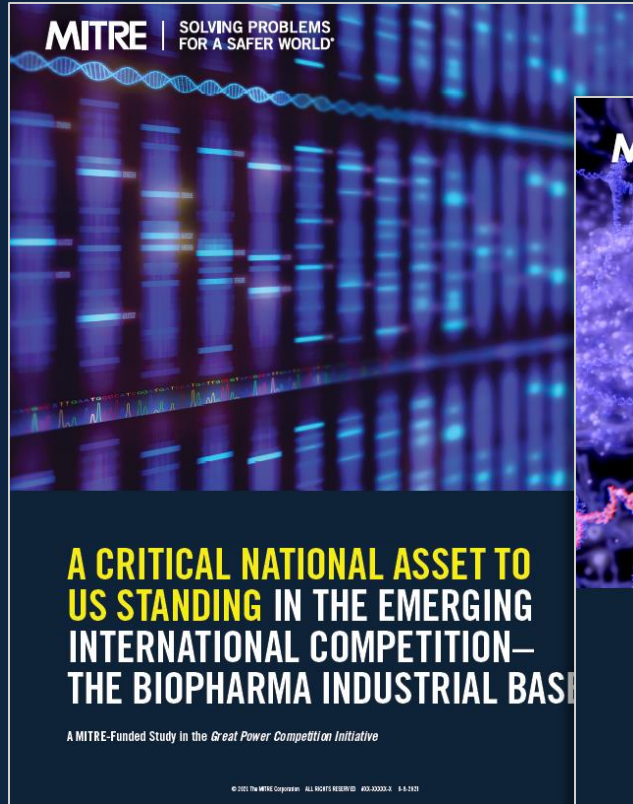
- Aircraft
- CBRN
- Ground Systems
- Munitions and Missiles
- Nuclear Matter Warheads
- Radar and Electronic Warfare
- Shipbuilding
- Soldier Systems
- Space

Industrial Sectors Engaged:

- Aircraft
- Electronics
- Ground Systems
- Munitions and Missiles
- Machine Tools
- Radar and Electronic Warfare
- Macro Forces
- Workforce
- Space



MITRE's Data-Driven, Evidence-Based Analyses of the Biopharma/Biotechnology Industrial Base



<https://www.mitre.org/publications/technical-papers/building-a-sustainable-biopreparedness-industrial-base>

<https://www.mitre.org/news/press-releases/mitre-proposes-10-point-plan-to-sustain-a-biopharma-industrial-base>

<https://www.mitre.org/sites/default/files/2021-10/Global-Health-Security-Fact-Sheet.pdf>

U.S. needs a **biopharma industrial base strategy** and **implementation plan** to drive government action and accountability to meet policy objectives



Protect the United States population from future biological threats (naturally occurring, accidental and intentional), as aligned with core global health security principles



Provide supply chain resilience that absorbs supply and demand shocks and scales to meet national needs



Maintain United States leadership of the bioeconomy to meet domestic needs as well as global export requirements during both crises and peacetime

Supporting Elements



Policy



Program



Finance



Accountability

MITRE's Proposed Courses of Action Provide a Roadmap Aligned with U.S. Government Policy Priorities

U.S.G. must effectively execute national policy and legislation to establish and sustain a bioindustrial base fit for mission in a complex, dynamic threat domain.

Initial initiatives:

- Clarify government roles and accountabilities related to the bioindustrial base and bioeconomy
- Develop a national bioindustrial base strategy with objectives and accountability
- Establish a strategic implementation plan with clear roles across industry and government
- Effectively finance, staff and assess in a manner fit for mission; incorporate implementation into the budget requests



THE CENTER FOR **STRATEGIC** COMPETITION

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Digital Silk
Road

Digital
Currency

**BioPharma
Industrial
Base**

Natural
Resource
Exploitation

Strategic
Influence

Alternative
Futures

MITRE created
a whole-of-nation,
whole-of-government
analysis framework
that brings together a suite of tools to develop
solutions to issues of **strategic competition**
and national resilience