

Defense Sciences Office (DSO) Overview

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Briefing prepared for
Protein ENGINEERING (PENG) Proposers Day

August 10, 2026





The origins of DARPA





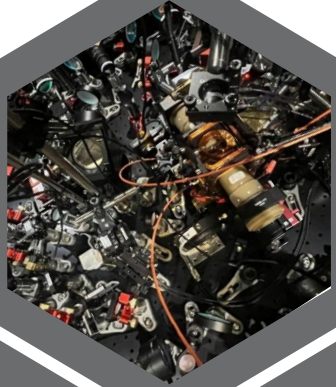
A smart early investor

- Invest in breakthrough, paradigm-shifting solutions across a wide portfolio
- De-risk immediate and long-range impact technologies
- Serve the need of our American warfighters





DARPA spreads risk through technical offices



Defense Sciences Office

- Materials, Manufacturing, and Energy Systems
- Sensing, Measuring, and Affecting
- Math, Computation, and Processing
- Complex, Dynamic, and Intelligent Systems



Biological Technologies Office

- Operational support capabilities
- Tactical warfighter care and functional restoration
- Strategic resilience and logistical security
- Sensing and responding to emerging threats



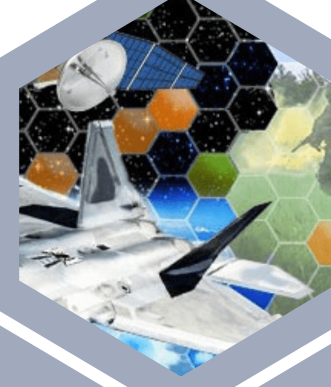
Information Innovation Office

- Proficient AI
- Advantage in cyber operations
- Confidence in the information domain
- Resilient, adaptable, and secure systems



Microsystems Technology Office

- Quantum, photonic, and organic circuits
- New microsystems manufacturing ecosystem
- Dual-use by design



Strategic Technology Office

- Advanced sensors and processing
- Battlefield effects
- Command, control, and communications
- Systems Warfare
- National Resilience

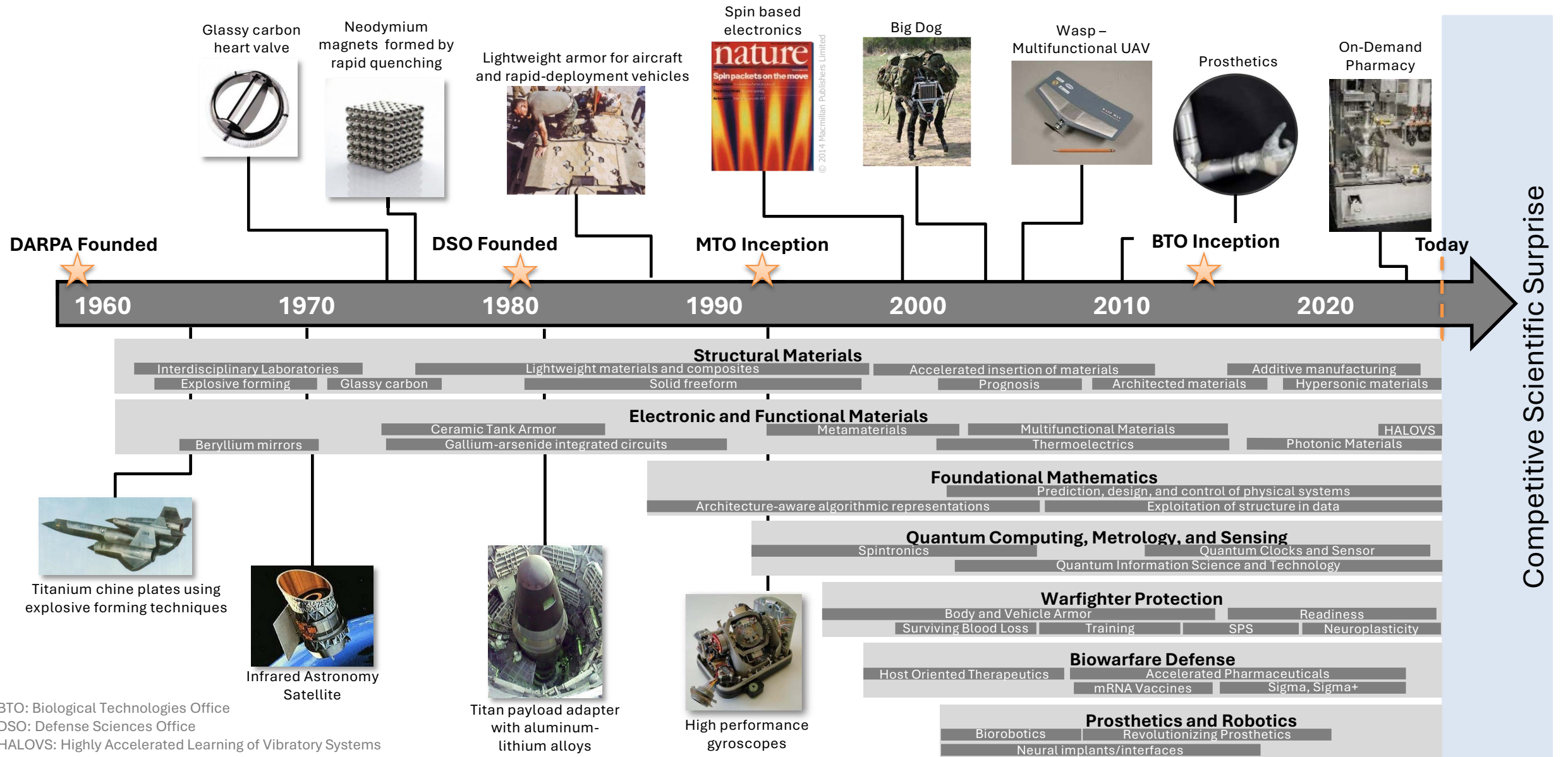


Tactical Technology Office

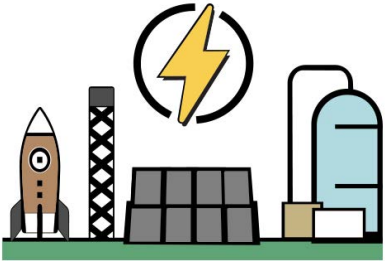
- Disruptive platforms and systems
- Reimagination of hardware design, development, test, manufacture and sustainment
- Focus on rapid, affordable, and scalable deployment



DSO: accelerating fundamental science breakthroughs for National Security advantage



BTO: Biological Technologies Office
DSO: Defense Sciences Office
HALOVS: Highly Accelerated Learning of Vibratory Systems
MTO: Microsystems Technology Office
SPS: Soldier Protection System



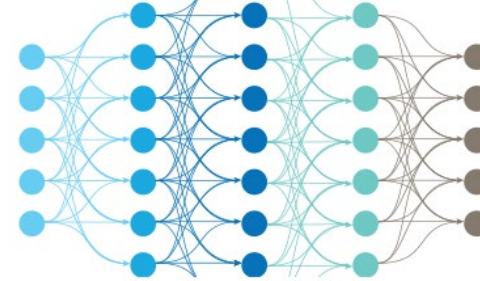
MATERIALS, MANUFACTURING, AND ENERGY SYSTEMS

Breaking tensions between performance and efficiency for new materials, manufacturing flexibility, propulsion, and energy availability



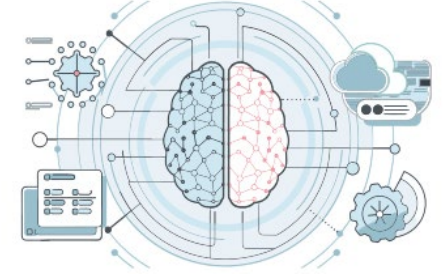
SENSING, MEASURING, AND AFFECTING

Pushing to fundamental limits for orders-of-magnitude improvement in awareness, communications, and control



MATH, COMPUTATION, AND PROCESSING

Enabling quantum, and reimagining classical, computing for enhanced efficiency and new capabilities



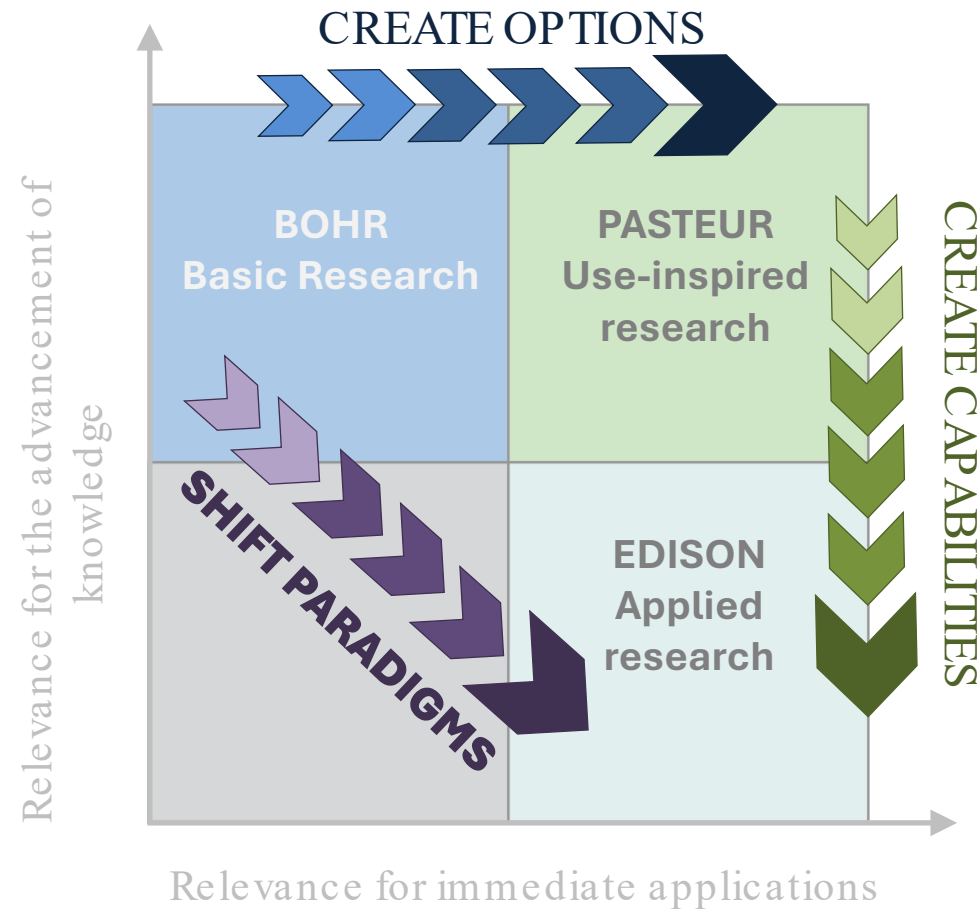
COMPLEX, DYNAMIC, AND INTELLIGENT SYSTEMS

Revolutionizing scientific methods for harnessing complex and adaptive systems, from materials to human-AI ecosystems

PROPELLING SCIENCE FROM BENCH TO BATTLEFIELD



Creates, accelerates, and harnesses scientific breakthroughs
for disruptive defense capabilities





Become a Program Manager!



Resources for engaging with DARPA



*Regional and
Virtual Events*

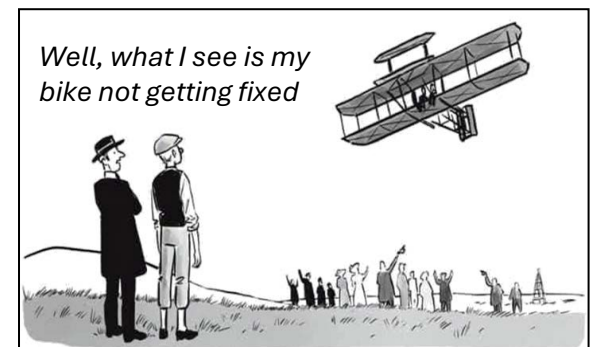
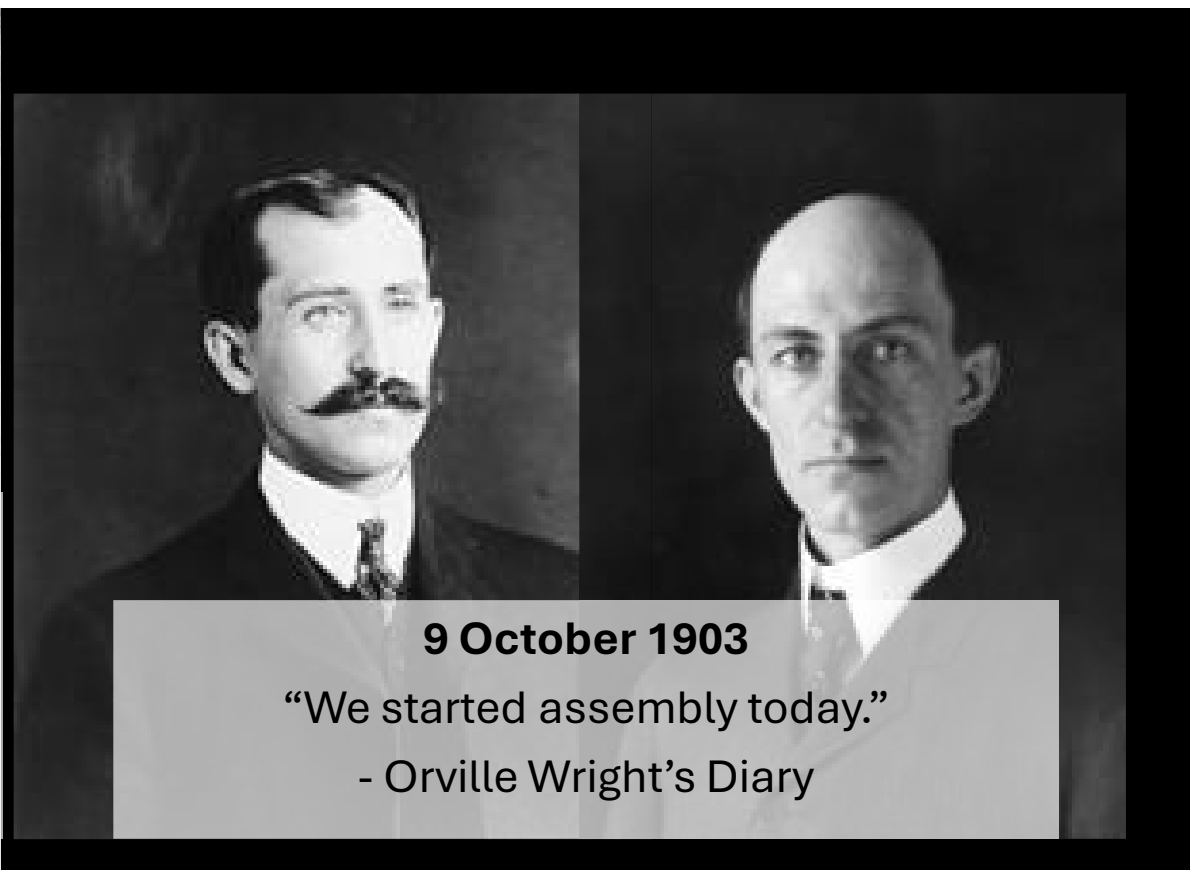
*Networking
Opportunities*

*Training and
Development*

*Customized
Support and
Mentoring*

DARPAConnect@darpa.mil

Have you submitted to a DSO solicitation?
Help DSO by responding to the Proposer Survey!
<https://events.sa-meetings.com/esurvey/126974>





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