

Air Force Studies Board



Digital Transformation

As adversarial cyber capabilities become increasingly sophisticated, the rapid adoption of digital capabilities and architectures by the military Services is crucial. The Air Force Studies Board (AFSB) assembles leading mission, system, and software engineering; autonomy; artificial intelligence; and cybersecurity experts to advise on force modernization design and system integration challenges. Through analysis of conventional and emerging technologies, our work provides solutions for digital materiel management, interoperability of multi-generational platforms, and agile software development. Our work enables Department of the Air Force leaders to prioritize their investments for addressing the digital needs of the acquisition and sustainment enterprise.

“Gen. David Allvin [Vice Chief of Staff at the time of this workshop] expressed his excitement about the future state of digital transformation when data-driven decisions could be made at much greater speed.”

**from *Digital Strategy for the Department of the Air Force*
Proceedings of a Workshop Series**

AFSB SELECTED WORK

**Digital Transformation in the
Department of the Air Force** (2024)

**Testing, Evaluating, and Assessing
Artificial Intelligence-Enabled
Systems under Operational
Conditions for the Department of the
Air Force** (2023)

**Digital Strategy for the Department
of the Air Force: A Workshop Series**
(2022)

**Energy Challenges and
Opportunities for Future Data-Driven
Operations in the United States Air
Force** (2021)

OUR IMPACT

In response to the 2023 report *Testing, Evaluating, and Assessing Artificial Intelligence-Enabled Systems under Operational Conditions for the Department of the Air Force* representatives from our international allies at the Australian Defence Organisation cited use of the report for the development of their own artificial intelligence testing and evaluation structures.

Learn more at www.nationalacademies.org/afsb/about.