

UNCLASSIFIED



U.S. Air Force
Scientific Advisory Board

**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE
WASHINGTON DC**

Collaborative Combat Aircraft for Next Generation Air Dominance

Abstract

The Department of the Air Force (DAF) Scientific Advisory Board (SAB) study on Collaborative Combat Aircraft (CCA) for Next Generation Air Dominance (NGAD) provides an understanding on how CCA's will operate effectively with piloted aircraft.

The study panel reviewed relevant DAF Operational Imperative products to determine potential CCA Concepts of operations and concepts of employment for NGAD. In addition, the panel determined technology requirements, their risks, and alternative allocations of these functions between the pilot and artificial intelligence. The panel also explored testing standard and processes to validate CCA operational performance. Finally, the panel proposed investments needed in the near-, mid-, and longer-term future to develop and deploy NGAD Family of Systems.

For SAB recommendations contact the following offices:

PENTAGON OFFICE

USAF Scientific Advisory Board (SAB)
SAF/AQB (SAB Secretariat)
1060 Air Force Pentagon
Room 5E815
Washington, DC 20330-1060
Phone: 703-695-4295
Fax: 800-762-7407 or 703-695-4301

ANDREWS AFB OFFICE

USAF Scientific Advisory Board (SAB)
SAF/AQB (SAB Secretariat)
1500 W. Perimeter Road, Suite 3300
Joint Base Andrews, MD 20762
Phone: 240-612-5513 or 877-732-3109
Fax: 571-256-3012

SAF PA Approval: 2023-0338

UNCLASSIFIED