



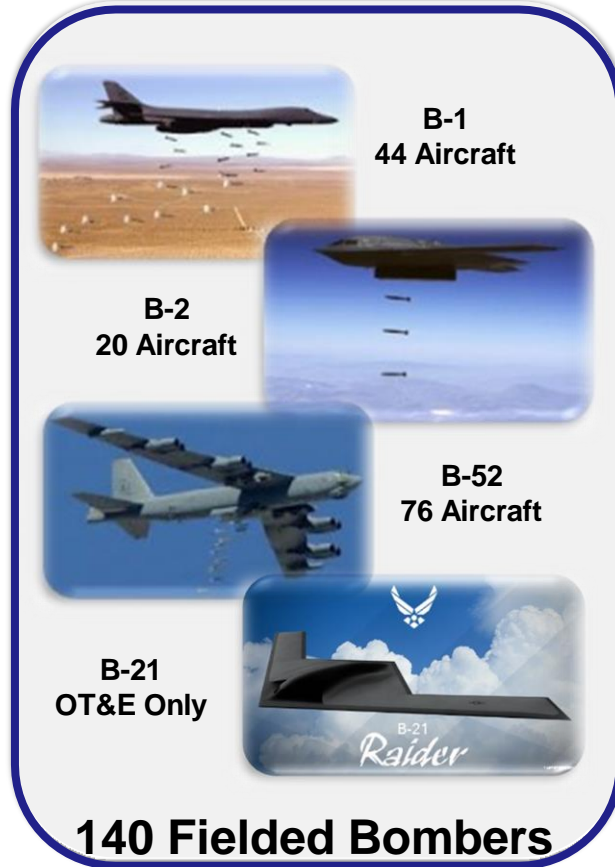
# AIR FORCE LIFE CYCLE MANAGEMENT CENTER

**Brigadier General Erik Quigley**  
**Bombers Directorate**  
***AFLCMC/WB***



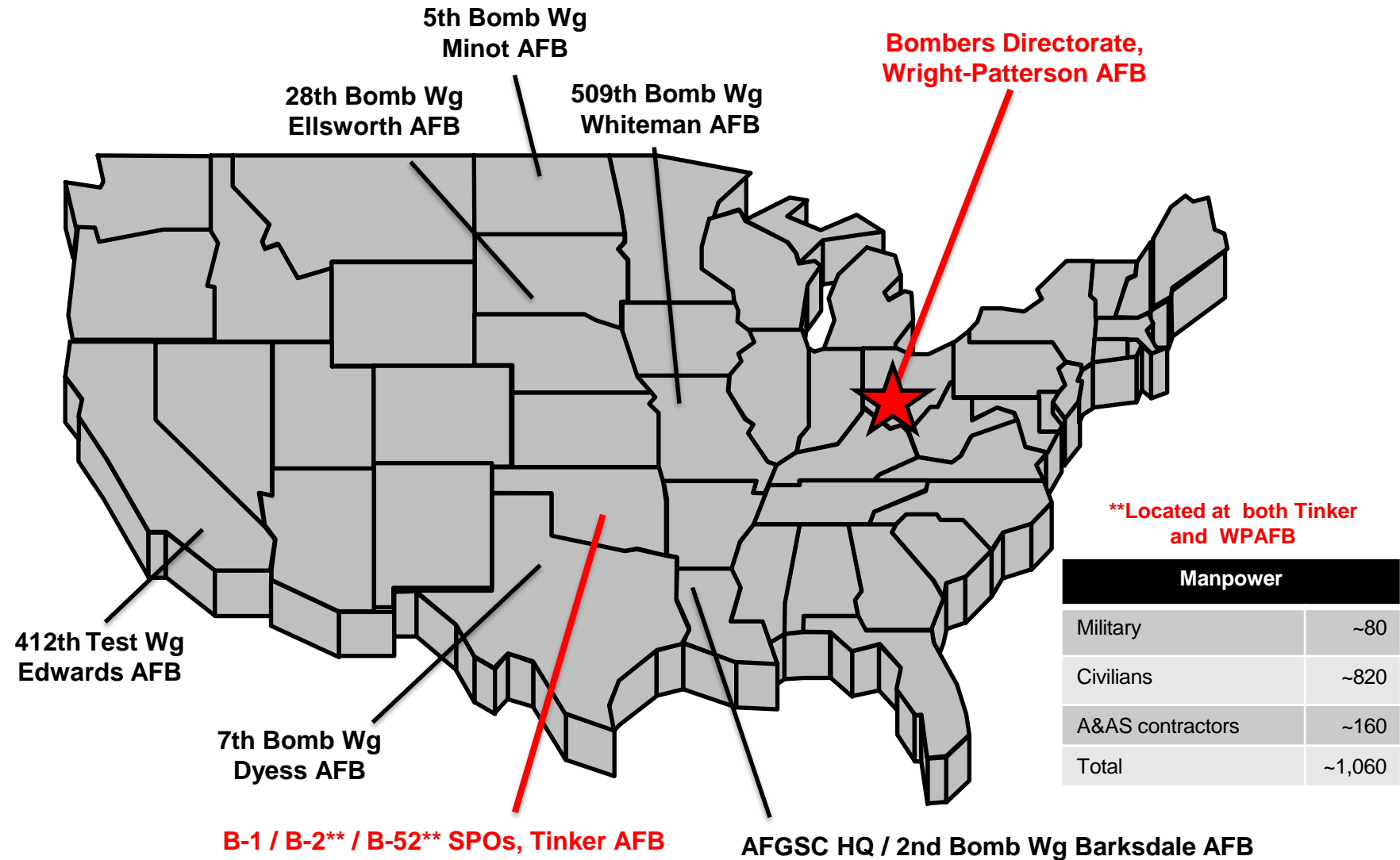


# Bombers Directorate Portfolio



**140 Fielded Bombers**

ACAT I – 2  
ACAT II – 7  
ACAT III – 27



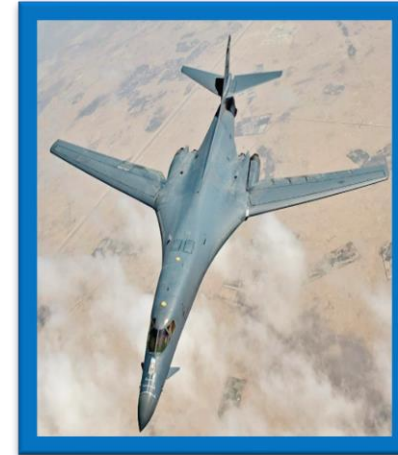
# Bombers Mission, & Vision

## Mission Statement:

Deliver combat effective bomber capabilities across the lifecycle everyday

## Vision Statement:

The Nation's trusted team to deliver unrivaled bomber strike capability





# PEO Bombers Mission Priorities

- **Support Division Aircraft Availability (AA) goals & efforts**
  - GOSG, QERs, TSAR, RoCCR, etc.
  - Partner with OC-ALC and Primes on VSM Opportunities
  - Adopt and resource predictive analytics for both organic and CLS supply chains
- **Streamline & make Bomber Focus Areas (BFAs) measurable**
  - Combine BFAs (i.e. Innovation is foundational across all)
  - Implement and review OKRs with Divisions and Functionals quarterly
- **Execute a deliberate Digital Material Management (DMM) strategy**
  - Monthly innovation cell and SPO DMM discussions
  - Re-prioritize Digital Transformation and innovation resources to include SBIR projects
  - Horizontally integrate/share success and tools across the Divisions and Functionals



# ACAT I and IIs List

- **ACAT I Programs**

- **B-52 RMP (Radar Modernization Program)** – Began EMD/Test Install in May 2023
- **B-52J CERP (Commercial Engine Replacement Program)**
  - Pre-MDAP, MS B Projected for late 2024

- **ACAT II programs**

- **B-1 FIDL (Fully Integrated Data Link)** – Fielded, in depot activation
- **B-1 VSD (Vertical Situation Display) Upgrade** – Fielded, in depot activation
- **BDM (B-2 Display Modernization)**
  - Restructured B-2 Defensive Management System Modernization (DMS-M). PEO is the MDA. Reached Milestone C May 2023
- **B-2 FS-1 (Flex Strike Phase 1)** - Fielded
- **B-52 CONECT (Combat Network Communications Technology)** – Fielded, in depot activation
- **B-52 1760 IWBU (Internal Weapons Bay Upgrade)** – Fielded
- **B-52 AEHF Integration**





## B-1 Overview

- **Only supersonic variable-swept wing long range conventional bomber**
  - 44 aircraft in inventory, 2040+ structural service life
- **Missions:** Strategic attack, air interdiction, offensive counterair, close air support, and countersea
- **Key Capabilities:** Global range, persistence, precision strike, large/flexible payload, standoff or penetration
- **Weapons:** GBU-31/38 (JDAM), GBU-54 (Laser JDAM), AGM-158A/B (JASSM), AGM-158C (LRASM), CBU-103/104/105, Mk-62/65 Sea Mines, Mk-82/84 GP Bombs
  - Largest weapon payload in the Air Force inventory

# B-1 Business Opportunities

- **Low-cost mods & structural parts for prototype repairs**
- **Digital Twin, Digital Engineering & Digital Resource Management to improve acquisition & sustainment efforts**
- **Hypersonic Weapons Test Bed / Integration via external carry**
  - Boeing IRAD investment in an external B-1 weapons pylon was critical to success



# B-2 Overview



- **Flagship of the nation's long-range strike arsenal**
- **Flexible strike capability**
  - Air to surface bombs
  - Non-nuclear missiles
  - Nuclear weapons
- **Proven combat effectiveness – deter, assure, strike**







## B-2 Business Opportunities

- **Low observable signature & supportability modifications**
  - Continuous improvement program designed to ensure B-2 stealth confidence and maintainability through lifecycle
  - Targets affordable, quick-to-field solutions to keep stealth viable, maintenance affordable; improves aircraft availability
- **B-2 Battlespace Collaborative Combat Communications (B2C3)**
  - Enables B-2 communication and operation in the Advanced Battle Management System (ABMS) and Joint All-Domain Command and Control (JADC2) environment
  - Ability to rapidly onboard mission capabilities
- **Adaptable Communication Suite (ACS)**
  - Provides SATCOM connectivity for command & control enroute to target
  - Airborne mission transfer, Beyond-Line-of-Site (BLOS) situational awareness
  - BLOS & voice comm upgrade to address obsolescence issues and obtain Mobile User Objective System capability: replaces PRC-117G/AN/ARC-234 radios

# B-52 Overview

- No longer thinking of B-52 as a legacy platform -- it is a critical component of the Nuclear Triad and the long-range strike complement to the B-21
- Most extensive modernization period in B-52 history -- requires a smart balance with ongoing sustainment focus for an aging weapon system
  - Active modifications for Radar, Engines, Flight Controls, Comm and Avionics Equipment
- Continuing emphasis on development, production, dependency, and infrastructure management to support major modernization push





# B-52 Business Opportunities

- **B-52 Advanced Open Architecture Effort**
  - In early planning stage of effort
  - Targeting upgrades to current OMS/UCI architecture strengthening the backbone of B-52 and maximizing capability upgrades
- **Leveraging commercial SATCOM capabilities**
- **Advanced Extremely High Frequency (AEHF) Integration**
  - Competitive effort to integrate an existing satellite comm terminal with AEHF satellite constellation providing two-way command & control communications
  - Intent to award contract by EOY 2024



# The Edge – Innovation

- **Engaging AF and industry partners to leverage current/future innovation opportunities to support the warfighter**
- **Innovation is a very broad topic and not all innovation is for the new thing**
  - **Our fleets range in age to 70 plus years, we must innovate to remain relevant and maintain a globally powerful deterrence**
- **The Edge is in a position to transition technologies and use innovative approaches to field new capabilities quickly into Bomber aircraft**
- **How to Reach Us: [AFLCMC.WB.Bombers\\_Innovation@us.af.mil](mailto:AFLCMC.WB.Bombers_Innovation@us.af.mil)**
- **Current technology focus areas:**
  - **Digital Transformation**
  - **Aerial Networking**
  - **Rapid Prototyping/Extermination with Pod'd Solutions**





# The Edge – Innovation

- **The topic of Digital Acquisition / Reverse Engineering and Data Rights are critical to making us all successful**
  - These include new and rapidly advancing things and digital models and information along with those data rights for the future are critical to our older platforms to stimulate innovation and advancing technologies
- **Communications is another area we focus on with our platforms. Our Goal: Open Mission Systems and Universal Command and Control Interface**
  - NC3, Alternative Position, Navigation, Timing (Alt PNT), Retargeting, Classified Comms, and Communications Cyber Resiliency
- **Supply Chain - we use innovation in how we help you and your suppliers to our fleets**
  - Must think about how it affects the global operations of our Bombers' fleets
  - Must make it robust, faster, and readily available for operations

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