Headquarters Pacific Air Forces

Integrity - Service - Excellence

PACIFIC INDUSTRY FORUM





KEVIN J. OSBORNE, Colonel, USAF Command Civil Engineer 18 September 2024





WE HAVE A PROBLEM

WE ARE ON THE TO HAVE

INFRASTRUCTURE

IN PLACE TO
SUPPORT AUSTERE
AIR BASES BY

2027

Peacetime Bureaucracy



Wartime Contingency Operations

...AND, WE NEED YOUR







We Are Being Outcompeted PLAAF vs USAF Runway Construction Efforts



In Two Years, the PLAAF had expanded airfield capability while the USAF continued to be bogged down by environmental processes at Tinian North Field, CNMI





Think ... Act ... Operate

... Differently













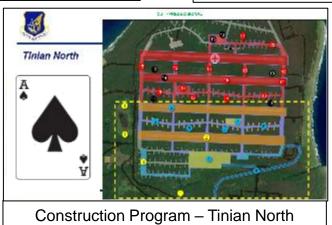
Agile Combat Employment

Tinian North: PACAF Airfield Opportunities





Early 1940s: Construction by Engineer Aviation Battalions





2022: Site survey of taxiway & keyholes between runways

A historic *ADAPTIVE REHABILITATION* of WWII airfields to improve USAF capability for exercises, operations, and security while preserving sites for future generations



356th Expeditionary Civil Engineer Group



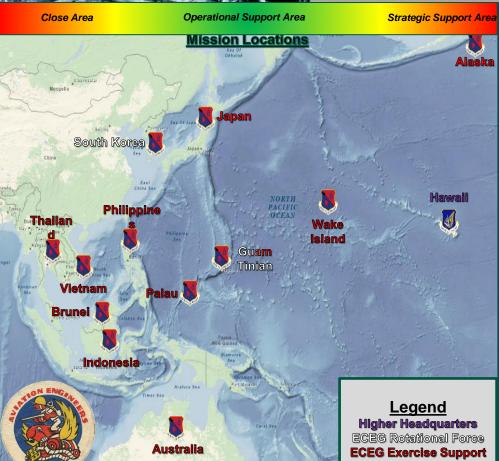
356th Expeditionary Prime BEEF Squadron

513th Expeditionary RED HORSE Squadron









LOE 1: Restore, construct, and sustain ACE critical Infrastructure

LOE 2: Build and foster partnership capacity and interoperability

LOE 3: Operate and adapt the organization at the speed of relevancy

Capabilities

Horizontal Construction







Earthwork





K-Spans, PEBs, PTFS



Utility Installation

Maintenance and Repair



Clearing & Grubbing



Infrastructure

Expedient Small Asset Protections Systems (ESAPs)





Expedient Small Asset Protection (ESAP) Shelter

















356th Expeditionary Civil Engineer Group Operations on Tinian North Field, CNMI





356th Expeditionary Civil Engineer Group

Paving Operations on Northwest Field, Guam











513 ERHS

Indo-Pacific Unity Allies and Partners Engineer Summit



The parent program for all Air Force Engineer engagements throughout the Indo-Pacific region These engagements provide a forum for allied and partnered engineers to exchange views, create professional relationships, enhance partner capacity, promote regional stability, and increase engineer interoperability in the region.



INDOPACOM / PACAF Exercises (e.g. BALIKATAN, COPE NORTH, etc)



Engineer Civic Action Program (ENCAP)



Engineer Subject Matter Expert Exchange (SMEE)



Engineer Key Leader Engagement (KLE) Program



Engineer Subject Matter Expert Exchange (SMEE)



AFWERX - Expedient Basing

Innovation Challenge Definition Workshop

■ Topic #1: Force Sustainment

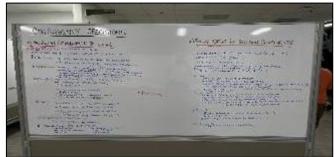
Topic #2: Training and Modernization

Topic #3: Site Logistics & Optimization

■ Topic #4: *Infrastructure*

■ Topic #5: Readiness (Integrated Base Response and Recovery)











AFWERX - Expedient Basing

PACAF Innovation – Focus Area #4 and #5







- □ AeroPel Nanocomposite Protection Layer
- □ Rapid Bio-Toilet
- ☐ Expeditionary Solid Waste Disposal System
- Hybrid Power Shelter
- Mobile Power Station/Modular Work Vehicle
- Atmospheric Fresh WaterCube
- □ Solar Power Structures
- Applique Autonomy Kit
- ☐ MINATOR Shelter
- □ Nanofibrous Membrane
- Solar Power Integrated System
- □ Biomineralization, Rapid Airfield Repair
- Agile Combat Energy Storage
- ☐ Smart Electric Vehicles
- □ Tactical Surface Board System
- Water Filtration Devices
- □ Passive Runway Lighting
- APR-Lite, Rapid Repair for Asphalt and Concrete
- □ Composite Fabric Inflatable Structures
- □ Antares
- □ Digital Airbase
- ATOS Airfield Tracking
- Runway Surface Monitoring
- ☐ Robotic Airfield Damage Repair
- ☐ Force Multiplier Kit
- ☐ Fast Track modular road & platform

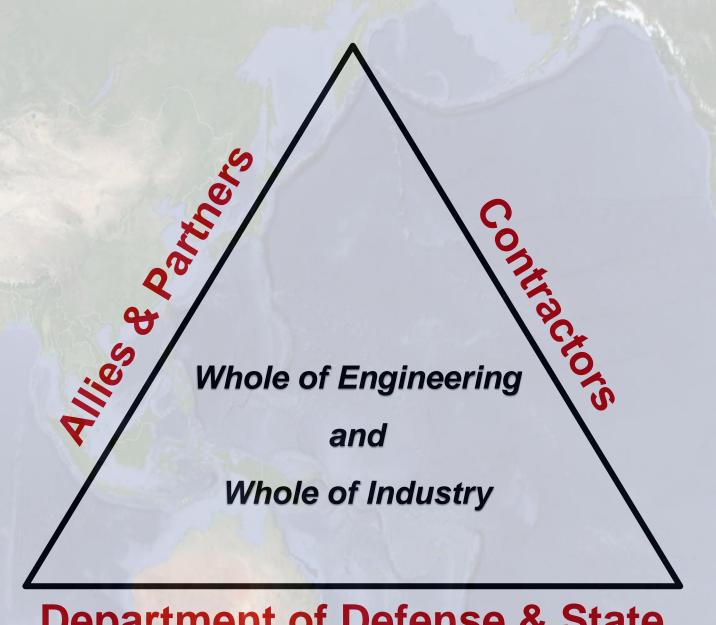






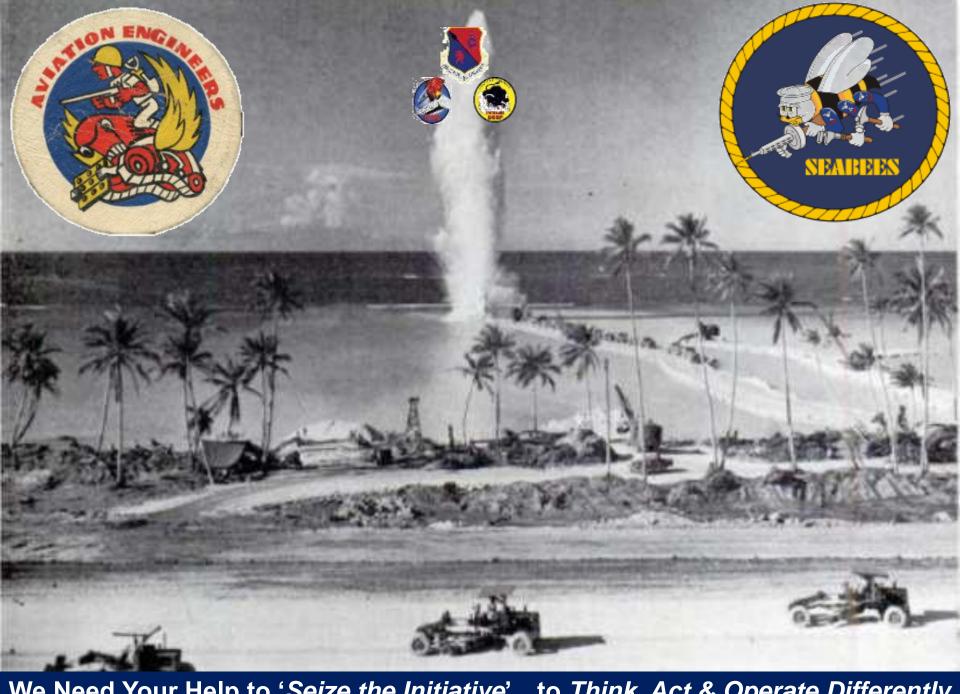


Stakeholders



Department of Defense & State





We Need Your Help to 'Seize the Initiative'...to Think, Act & Operate Differently

AIR FORCE 18 September 1947



CELEBRATING 77 YEARS