

# 24th Air Force/ AFCYBER

## Delivering Outcomes through Cyberspace



Brig Gen Mitchel Butikofer  
Vice Commander

OVERALL CLASSIFICATION OF THIS BRIEFING IS  
**UNCLASSIFIED**



Q WHAT WILL THE WARRIOR-GUARDIAN OF THE FUTURE LOOK LIKE?

YO! DUDE... BACK HERE

CYBER SECURITY

KAL  
The Economist



# Roles and Responsibilities



## 24th Air Force

- Organize, Train, and Equip Cyber Forces
- Cybersecurity Service Provider



## Air Forces Cyber (AFCYBER)

- Air Force Cyber Component to USCYBERCOM
- Plan and execute cyber operations
- Provider and Defender of the Air Force Network; Contribution to the Global DoDIN



## Joint Force HQ – Cyber (AFCYBER)

- C2 of Offensive cyber teams ISO CCMDs





## Mission

***“American Airmen delivering full-spectrum, global cyberspace capabilities and effects for our Service, the Joint Force, and our Nation”***

## Guiding Principles

- ***Normalize Force Presentation***
- ***Secure and Defend our Mission Systems***
- ***Increase Full-spectrum Cyber Operations Support to AF Component and Joint Operations***
- ***Optimize Service Multi-domain Integration***

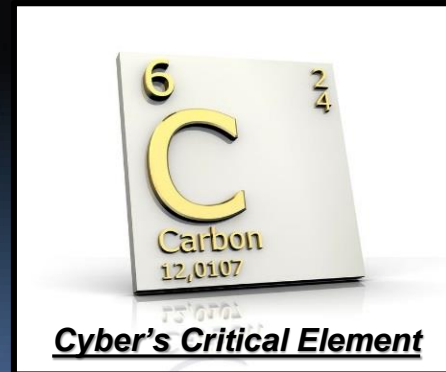


***We Build, Operate, Secure, Defend, Extend, and Engage In, From, Through Cyberspace to FLY, FIGHT, and WIN for America!***



# What I Believe

- Most critical element in Cyber is not Cu, Si, or Ti... It's C!
- We are an operations and maneuver force in support of assigned missions: DCO, OCO and DoDIN
- Cybersecurity and Operations are Commander's Business
- Normalize cyberspace like all other operational domains
- Readiness is our currency...  
“the institutional standard”
- Access is our Rubicon for effects operations





# "BOSDEE" – Our Lines of Effort



## Build



Build, Engineer and Install Air Force Network infrastructure worldwide

- ✓ Support all 11 MAJCOMs and 7 CCMDs
- ✓ 30-70 Airmen TDY completing 60+ Active E&I Projects
- ✓ 60-90 deployed worldwide
- ✓ Tool and capability development

## Operate



Operate enterprise mission services for ~1 million AF users worldwide

- ✓ 99.999% core system uptime
- ✓ 20 network orders executed
- ✓ 623 network trouble tickets closed

## Secure



Secure enterprise infrastructure and DoDIN mission entities by deterring attack vectors

- ✓ Standardized TTPs in response to non-kinetic threat activity
- ✓ < 0.001% exposure to external scanning
- ✓ User login credentials assessment and control

## Defend



Defend \$14.2B AF enterprise network and key mission systems

- ✓ 1.3B malicious in-bound connections blocked
- ✓ 5M out-bound suspect connections denied
- ✓ 147 RPA feeds monitored
- ✓ 15-20 new threats identified & mitigated

## Extend



Extend Air Force Network and provide tactical communications in remote locations in support of contingency operations

- ✓ 60-90 Airmen deployed or supporting exercises
- ✓ 15 exercises / contingencies in planning
- ✓ 10-20 Airmen on mission supporting US Secret Service

## Engage



Engage cyber capabilities in support of Combatant and Air Component Commanders

- ✓ Offensive Cyber Operations mission planning
- ✓ Operational planning and development
- ✓ Integration with CCMD and JFACC schemes of maneuver
- ✓ Tool development and malware analysis



# Cyber Mission Force

## National Mission Forces

Counter Cyberspace Attacks

 21 Teams

## Combat Mission Forces

Focused On Combatant Command Requirements

 44 Teams

## Cyber Protection Forces

Defend and Secure DOD Infrastructure + Support for Protecting DOD Networks

 68 Teams

**133 Total Teams 6,000+ People**



## National Mission Forces

Oriented toward  
**OUTCOMES**

Defend the Nation by seeing adversary activity, blocking attacks, and maneuvering to defeat them





  
 Oriented toward  
**OUTCOMES**

## Combat Mission Forces

Conduct military cyberspace operations in support of the joint warfighter



## Cyber Protection Forces

Oriented toward  
**OUTCOMES**

Defend the Department of Defense Information Networks and protect priority missions



# Air Force Contribution to the CMF Structure



**Defend the Nation**

National Mission Team	National Support Team	National Cyber Protection Team
4 Teams	2 Teams	6 Teams

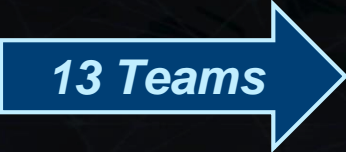


**Cyber National Mission Force**



**CCMD Support**

Combat Mission Team	Combat Support Team
8 Teams	5 Teams

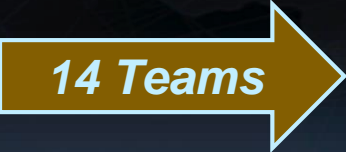


**USSTRATCOM / USEUCOM / USPACOM / USCENTCOM**



**Cyber Defense**

Service Cyber Protection Team	Combatant Commands + DoDIN Cyber Protection Team
7 Teams	7 Teams



**Multiple Cyber Mission Owners**



- Total contribution: 1,700+ Airmen; 39 Teams
- JFHQ-C (AFCYBER) / AFCYBER presents forces to USCYBERCOM
- Jointly manned by 24 AF & 25 AF (1,000+ and 700+ Airmen)



# Mission Outcomes We Need...

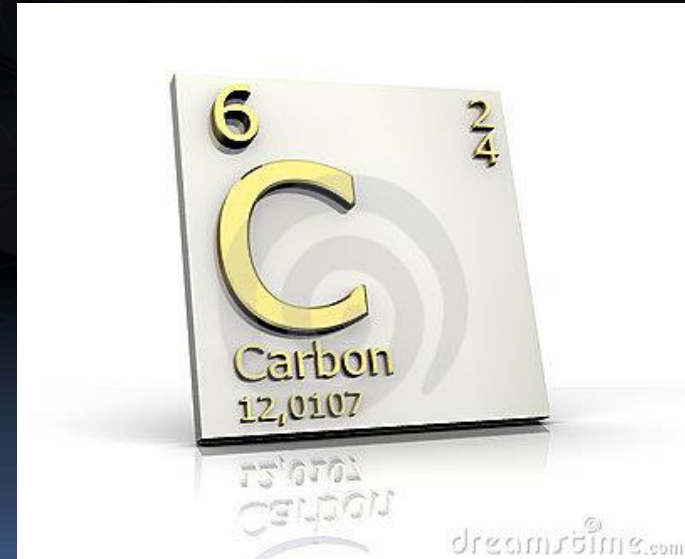
- “An Air Force Information Dominance Platform”
- Cyber SA that informs our Operational Maneuver (missions)
  - Sensors, logging, analytics
- Secure Data: At Rest, In-Transit, Transport Agnostic
- Automation: Proactive defense & responsive operations
- “Access on Demand”
- Extending AFIDP to non-permissive forward edge
  - Modern/Modular/Scalable





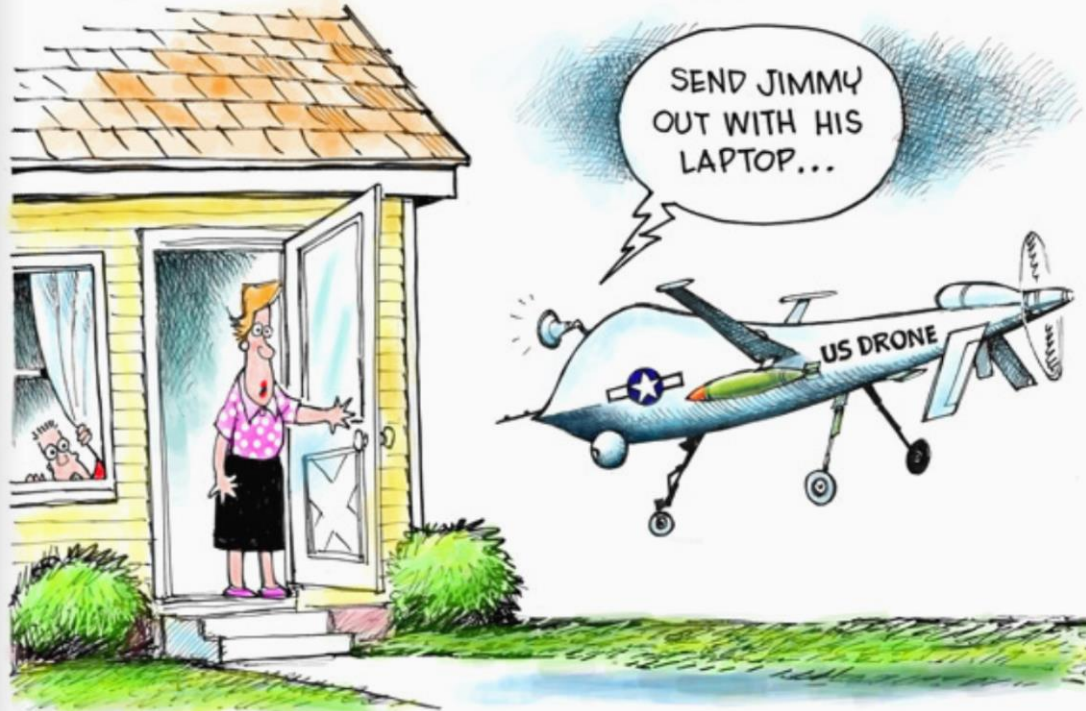
# CAUTION: Airmen in the loop!

- What's the most critical element in Cyberspace Operations?
  - Relevant & responsive curriculum
  - Persistent Training Environments
  - Simulators
  - Airmen for Life
  - Private Sector permeability
  - Weapon System Sustainment
  - Tools, Tools and more Tools
  - Innovation requires Education



# Questions

Pentagon will respond with force to cyber attacks...



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