



# ***24th Air Force***



## ***Cyber Proving Ground***

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CYBER PROVING GROUND



# ***What is the CPG?***

**The Cyber Proving Ground (CPG) *Identifies, enables, and accelerates* the fielding of innovative, operationally-relevant concepts and technologies found within commercial industry, academic institutions, and government organizations in order to advance Air Force, joint, and coalition cyberspace operations capabilities.**



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# CPG Lines of Effort

## ◆ Identify

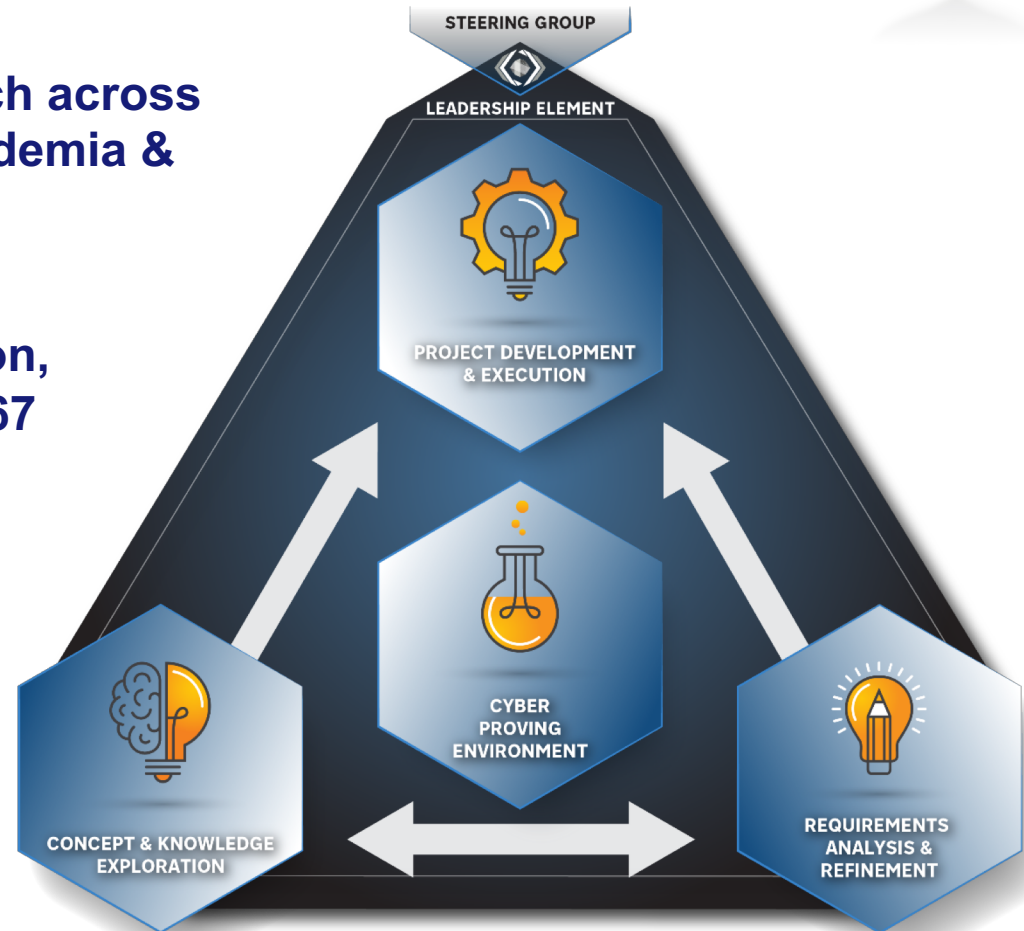
- Innovation & Emerging Tech across Industry, Commercial, Academia & Government entities
- Discovery Library
- 24 AF processes: Innovation, Emerging Tech & CNFs/1067

## ◆ Enable

- Vendor Demonstrations
- User Training Sprints
- Unclass Environment for creative exchange of info/technology / capabilities

## ◆ Accelerate

- Deliver Quick, Innovative Solutions



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# ***CPG Scenario***

- ◆ **Capability/Info sent to 24 AF Technology Office**
  - White Paper, BBP, Technology Brief
- ◆ **TO Team Review**
  - Team vectors and catalogues your info
- ◆ **Innovation / Emerging Tech / Core CNF/1067**
  - Based on vector – capability meets CPG Steering Group
  - Confirmation to engage in CPG effort
  - Vendor Demo/Assessment scheduled with operator
- ◆ **24 AF/A8/9 & AFLCMC Processes**
  - AAR accomplished with way ahead recommendation
  - A8/9 & LCMC process engage to move effort to sustainability

# ***CPG Timelines/Prioritization***

- ◆ **Timelines for CPG efforts are driven by a quick assessment/evaluation of a capability**
  - **Efforts align to three areas:**
    - **Innovation**
    - **Emerging Technology**
    - **Standard 24 AF Cyber Needs Form (CNF) & ACC 1067 process**
  - **CPG efforts aligned to 24 AF/CC prioritizations**
    - **Formalized Steering Group Process – concurrence from key members within the NAF (67 CW, 688 CW, 24 A8/9 and partner AFLCMC)**

# *Range of CPG Activities*

-  **Problem Analysis**
-  **Technical Evaluations**
-  **Military Utility Assessments**
-  **Capability Demonstrations**
-  **Technology Challenges**
-  **Operational Assessments**
-  **Grass-Roots Innovation & Integration**



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# *Current Projects*

## DISCOVERY

- Breach Detection Systems
- Commercial Threat Intelligence
- Data Loss Prevention

REQUIREMENTS

## RQTS DRIVEN

- Realistic Traffic Generation
- Cyber Replay

RECOMMENDATION

- 24 AF A8/9
- SPO/PMO

**Innovation occurs across the range of CPG activities, whether through the exploration of new technologies and capabilities, or via identifying the “art of the possible” with existing capabilities**

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# ***Where We Are Today...***

## ***Foundry Floor / Cyber Proving Environment***

### **Foundry Floor**

- ◆ Large, unclassified, reconfigurable space
- ◆ Outside the confines of a military installation
- ◆ Access to commercial internet
- ◆ Close proximity to many of our weapon system SPOs
- ◆ Access to operators

### **Cyber Proving Environment**

- ◆ Robust vendor integration environment as well as the ability to emulate tactical USAF enclaves and services for demonstrations and adjudication activities





- ◆ **CPG is constantly...**
  - Identifying new technology/capabilities
  - Focus on 24 AF/CC prioritizations – op capabilities
  - Communicating/Collaborating with you...partnerships
  
- ◆ **Why of interest to you?**
  - CPG is a resource to leverage today
  - Provides broad SA of innovation efforts across academia, government, commercial and industry
  - Lessons we learn serve as a model for similar efforts within other Services
  
- ◆ **Contact 24 AF: [24AF.TO.Technologyoffice@us.af.mil](mailto:24AF.TO.Technologyoffice@us.af.mil)**

# ***CPG provides...***

- ◆ **The ability to assess and evaluate relevant capabilities**
  - Staying ahead of our adversaries and rapid technology changes
  - Maintain SA on innovation across industry, academia, govt
- ◆ **The ability to better capitalize on opportunities**
  - Tapping into pools of innovators that already exist
  - Pivots the acquisition processes to address emerging threats
- ◆ **The ability to field opportunities quickly**
  - Meeting operational demand signals via collaborative partnerships
  - Tighter integration of operator and ops commander early on
  - Efforts are not long term – streamlines acq processes

**Rapid assessment and evaluation of relevant capabilities focused at meeting operational needs/requirements**

# Questions?