# ATTACHMENT 1:
# COVID-19 FOCUS AREA INTERESTS

**Focus Area 1: Decision Support in Combating the Virus**

Objective: This focus area aligns with the Operations Environment sub-OPT to determine the next virus hot spot, threats to Airmen and citizens, and understanding the virus's international internationally. The goal is to support decisions tied to force protection, resource allocation, and operational practice changes.

Approach: Adopt practices and platforms leveraging Big Data and predictive analytics to identify virus trends and behaviors, including:

- **Social Media Analytics --** Leverage social media scraping, natural language processing, and artificial intelligence to identify emergent COVID-19 clusters.
- **Adware Proximity Algorithm --** Leverage commercially available adware data to backtrack confirmed COVID-19 infected individual movements and alert those in proximal distances to self-isolate.
- **Mobile Application for Self Reporting --** Deploy mobile application to enable COVID-19 symptoms self-reporting via secure means accessible on iOS or Android, feeding chain of command notifications and enabling DoD population data analytics.
- **Enterprise Tool for COVID Tracking --** Deploy enterprise toolset to provide decision makers COVID-19 instance scalable views throughout the force.

**Focus Area 2: Personnel Needs**

Objective: This focus area aligns with the Personnel and Dependent Welfare sub-, addressing needs related to COVID-19 effects on training/education, recruitment, talent management, fitness, and day-to-day Airmen and their families' needs. The goal is to maximize social distancing while minimizing reduction of services in these categories.

Approach: Adopt technologies, platforms and applications allowing for remote services supporting Airmen's needs across the Air Force, including:

- **Tele-Ministry --** Deploy a mobile application enabling Chaplain Corps' remote ministry.
- **Tele-Counseling –**Deploy tele-medicine technologies enabling remote Airman counseling for those under elevated stress incident to COVID-19 / increased isolation.
- **Tele-Health --** Deploy tele-medicine technologies enabling Airmen remote access to Primary Care Managers while subject to social distancing.
- **ChatBots** -- Deploy ChatBot technology in customer-service functions, e.g., finance, personnel, legal, etc., currently requiring Airmen prolonged wait-times to speak to customer service representatives.

**Focus Area 3: Readiness**

Objective: This focus area aligns with the Readiness sub-OPT to determine small businesses with existing or advanced product, service or solution development to identify readiness gaps, both globally and individually; adopt alternative digital-virtual solutions, e.g., education, training, simulation, etc.; identify lim factors and optimize resources used to navigate the recovery phase, e.g., scheduling activity tools, linguistics, etc.

Approach: Enabling telework at scale.

- **Readiness Impact Assessment Tools --** Deploy toolsets to forecast COVID-19 impacts on force readiness.
- **Training Scheduling Optimization Tools**

**Focus Area 4: Logistics**

Approach: Adopt practices and platforms addressing emergent shortfalls in critical medical inventories.

- **Medical Resources COP --** Deploy common operational picture to provide shared supply/demand visibility for critical medical supplies. Deploy AI to enable forecasting, match timing, and supply types with vendor and delivery method.

**Focus Area 5: Medical**

Objective: This focus area aligns with the Medical sub-OPT to determine small businesses with existing or advanced product, service or solutions development potentially meeting identified COVID-19 medical capability gaps. The goal is to identify known medical deficiencies and gaps, matched with small business solutions able to deploy rapidly after funding agreement awards.

Approach 5a. Air & Surface Cleansing: Reduce contaminant loads in environments where Airmen operate to decrease the COVID-19l transmission likelihood, including patient transfer mobility aircraft.

- **Antiviral Surface Coatings --** COVID-19 has evidenced remaining on untreated surfaces for up to three days. Contact with disinfectant needs 30 seconds to 10 minutes to be effective. The surface chemistries developed would provide ability to 'bind' COVID-19 to disinfectants, proving far more effective than 'wiping' surfaces.

Approach 5b. COVID-19 Testing & Management:

- **Field Deployable COVID-19 Test Kits --** Ruggedized COVID-19 test kits deployable to field environments lacking refrigeration, and delivering local test results.
- **Dual-Patient Ventilator Modification --** Adaptation of currently fielded ventilators to enable single machines to service two or more patients simultaneously.

Approach 5c. COVID-19 Medical Supply Chain:

- **Additive Manufacturing ISO Medical Supply Chain --** Leveraging AF additive manufacturing capacity to develop and print supplies on demand to meet DoD needs and supports civil authorities missions.

**Focus Area 6: Blue Sky – Solutions other than those discussed above.**