



# Controlling COVID-19

CIMR's Multi-Layered Air and Surface  
Defense System

*Making it safe to share indoor air*



# Continuous Infections Microbial Reduction (CIMR) “Multi-Layered Air/Surface Defense Technology”

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Link to CIMR Video

[CLICK HERE](#)



# A Wartime Mindset

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- There are no “easy” answers for a wartime President.
- We must give the POTUS actionable options today using the best available data and science.
- Purchasing CIMR Technology from a Minority Women Owned Small Business will allow for POTUS to show care and concern for the hardest hit companies during COVID times.
- We could listen to “experts” who do not understand the complexity of the war, mischaracterize it, or who advocate that we close the economy while we await a perfect solution.

Following these well-intentioned people will cost us lives, the economy, the war, and the nation.

- Losing is not acceptable to the POTUS.

***We must win.***

*“The Multi-Layered Air Defense Strategy, if executed successfully at scale, gives our wartime President a key weapon in the fight against COVID-19. We consider this strategy a development that has the potential to transform the war in the same way that the Manhattan Project did for the atomic bomb. Our opinion is that this approach has a high likelihood of success and must be included into the President’s national arsenal. We believe this strategy best allows our President to help us win the war on COVID-19 and save our country. This strategy is based upon the best available science we have. If we wait for the perfect science, we will lose the war, and lose our country. The stakes could not be clearer.”*

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**Lt Gen (ret) PK Carlton, Jr**  
**Surgeon General, United States Air Force, 1999-2002**  
**Lead Scientific Advisor**

# Today's Situation

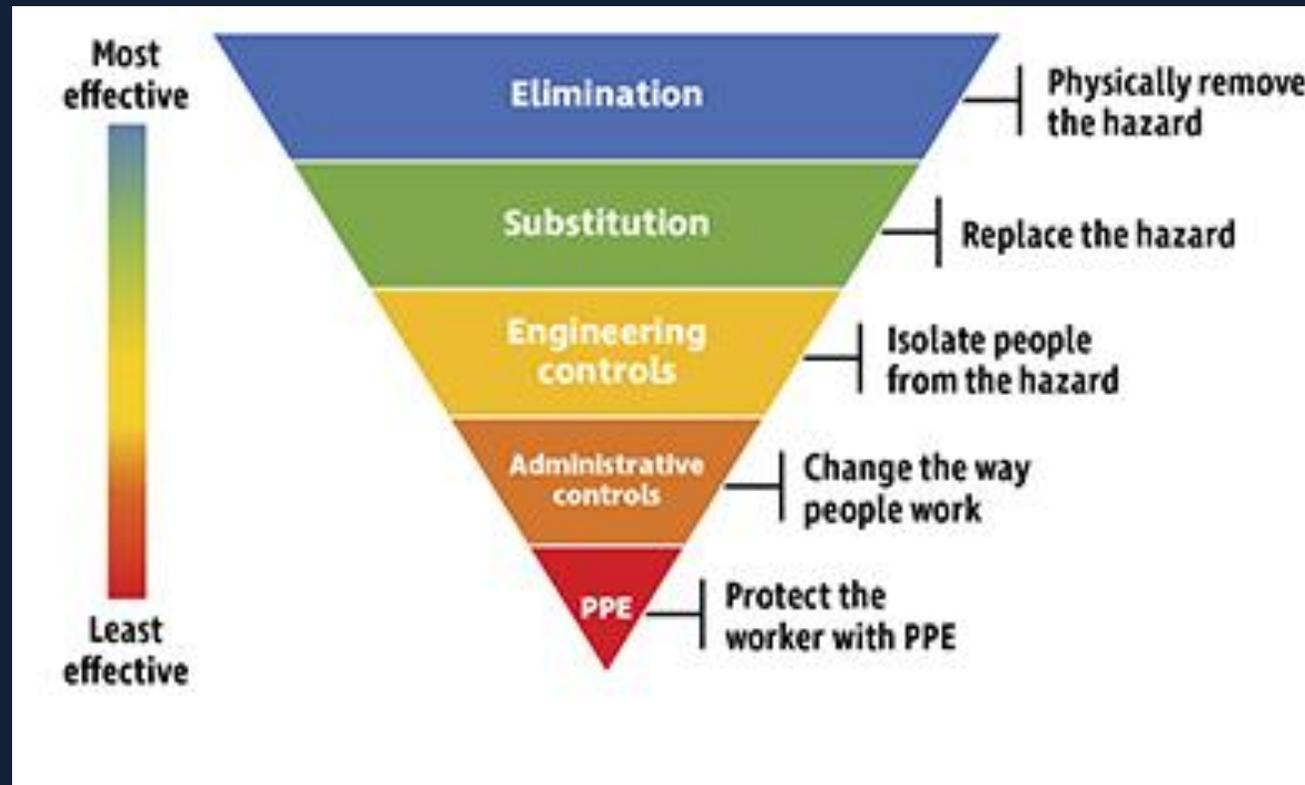
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- 2<sup>nd</sup> and 3<sup>rd</sup> wave of COVID **threatens confidence** in economic rebound
- Consensus of scientific opinions now acknowledges the **role of airborne** (droplet, aerosols) transmission of COVID
- **Leading** through the COVID war, ensuring **economic prosperity** while simultaneously protecting lives, solidifies **POTUS** reputation as a **strong** and creative American President.
- Application of the proposed ***Multi-Layered Air Defense Strategy*** developed by the USAF, Auburn University, and Hi-Tech, utilizes established, vetted, and safe commercial off-the-shelf American technology, applied en-suite.
- This approach is **American made and engineered**, powered by American innovation, and has been adopted by the USAF. It is **cost effective** and can be **deployed at scale** starting tomorrow to protect **critical American infrastructures**.

# “Multi-Layered Air Defense”

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Focused on engineering solutions built around the NIOSH “Hierarchy of Controls” model to protect shared indoor air.



# Technical Assessment of the Recommended *Multi-Layered Air Defense Strategy*

- Lt Gen (ret) PK Carlton, Jr, MD (Senior Technical Advisor)
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None of the scientific advisory team has any financial relationship with any of the products or companies represented. Their views do not represent official views of the Air Force, Air University, the Air Force Medical Service, or Auburn University. The following views are their perspective. We have given them complete autonomy to voice their opinion.

## **A Multi-Layered Air Defense Model to Protect Shared Air in Critical Infrastructure Sectors**



July 2020

# Independent Parts of a “Multi-Layered Air Defense” Using CIMR Technology

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1. Fresh air exchanges
  2. CIMR: Active pathogen scavenging (low level ionized H<sub>2</sub>O<sub>2</sub>)
  3. Passive pathogen scavenging (Bi-polar ionization and Radial Ionization)
  4. HEPA Filtration
  5. Contained UVC to continuously sterilize HEPA filter (“CIMR Scrubber”)
- Each one of these strategies is deployable now either as stand alone or en-suite.
  - The independent technical team assesses each technology independently as having a strong scientific body of evidence to support deployment today.
  - Each has been recommended to, and deployed by, senior Air Force leaders to protect their no-fail mission sets. Details available upon request.
  - The complete Air/Surface Defense Strategy would be to combine 1-5 layers of this Air Defense System either in portable stand-alone units or into the HVAC system.

# Technical Team's Top-Line Recommended Actions

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- Executive Branch adopt the *Multi-Layered Air Defense Strategy* and lead **country and the world to defeat COVID through the purchase of a CIMR Technology product.**
- Immediately procure technology **at scale** to support model implementation for **critical civilian government** facilities (White House, VP Residence, Congress, etc).
  - Tech team recommends CIMR proposal as part of the five layered air defense comprehensive suite application.
  - This is the same recommendation team has made to USAF leadership while in uniform.
- Execute an education plan to instill public confidence in this strategy.
- Study implementation with third party validation of technologies en-suite.
- Apply lessons learned to public policy to protect critical government and private infrastructure sectors, hardening our nation against COVID today and any future threats for tomorrow.

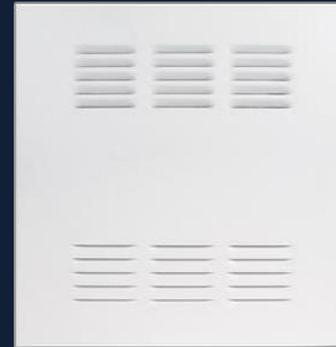
# CIMR Equipment



CIMR 2000



CIMR Scrubber



CIMR Cloud



CIMR DW 1500



CIMR 1500WM



CIMR 8000/4000



CIMR 414



CIMR 500

All five layers of this air defense system fit into a 24x24x45 inch box that can stand alone on rollers or be fitted directly into the HVAC system. Equipment is scalable to any size building or facility.

# CIMR: Made in the USA

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- Technology developed in the USA
- Engineered in the USA
- The CIMR “engine” (Cell) is made in the USA
- Equipment assembled in the USA

# CONCEPT: Protect Against COVID-19 Today

## Harden for future Bio-attacks

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- Harden the federal government starting with the White House, Vice President's residence, Congress, Supreme Court, civilian command posts, and other critical nodes first with CIMR Technology
- Harden state and local government institutions
- Harden military command centers/strategic infrastructure globally
- Harden all levels of medical centers and ports of entry
- Incentives for businesses/individuals to harden private property
- Establish optional compliance certification guidelines

# TIMELINE: FOR ALL/COMBINATION OF CIMR TECHNOLOGIES

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## Implementation plans to include:

- Scope and Timeline: Ten million+ square feet (10 foot ceilings) available starting today with a reserve of 100+ million square feet using current technologies
- Cost: 1-4 dollars per square foot or 20 to 80 cents per cubic ft depending on the condition of the building, and the suite of technologies desired.

# COSTS USING ALL/COMBINATION OF CIMR TECHNOLOGIES

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- **White House:** 55,000 square feet w/12 high ceiling (660K cubic feet)
  - Estimated cost: \$303,600 at 4x-5x
- **Vice Presidential Mansion:** 9,150 square feet w/15-foot ceiling (137K cubic feet)
  - Estimated cost: \$63,135 plus installation at 4x-5x
- **US Capitol:** 1.3 million cubic feet
  - Estimated cost \$598,000 plus installation at 4x-5x

All Costs estimated 46 cents per cubic foot

# CONCEPT: Rapid Mobile Deployment CIMR Suite

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**ESTABLISH:** a Rapid Mobile Deployment Program using the Multilayered Air Defense Strategy that can respond to bio-hotspots around the country and the world. Significant estimated savings include

- Flood mitigation: government saving between 35% to 75%
- Pandemics: government savings between 45% to 80%
- Med: Hospitals, Nursing Homes, Rehab Ctrs, saving 25%-40%

# Senior Military Leaders who have deployed and studied this strategy to stop COVID-19 since March 2020 (POCs on request)

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Lieutenant General James B. Hecker  
President, Air University  
Maxwell AFB, AL

Lieutenant General S. Clinton Hinote  
Deputy chief of Staff for Strategy, Integration and Requirements  
Headquarters U.S. Air Force, The Pentagon

Major General John. J. DeGoes  
Commander, 59<sup>th</sup> Medical Wing  
Joint Base San Antonio, TX

# A Brief History

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The CIMR System is part of the 5 **Layered Air Defense Technology**, invented and developed by Alton Holt. It was first introduced and deployed in 2005 with the Corps of Engineer (Butch Roseman), working with Navy Medical staff and Army at Corpus Christi Naval Air Station. From there, CIMR, part of the Layered Defense program, has by deployed for Homeland Security; Army bases; FEMA; National Historical Society; and Hurricanes Rita, Katerina, Harvey, etc. CIMR is backed by Lamar University and the University of Texas Educational System. Today, we are presently protecting Maxwell AFB, many areas at Lackland AFB, including the COVID Tents, and many other locations around the world in conjunction with the Air Force. **We know of no transference of the COVID-19 after 9 months of use.** The other multi-layers of protection are also designed and produced in the USA.

# CIMR Technology: a key component of stopping the spread of COVID-19 using the “CIMR’s MULTI-LAYER AIR AND SURFACE DEFENSE PROGRAM

- **CIMR HAS BEEN PROVEN EFFECTIVE IN FDA COMPLIANT LAB TESTING AGAINST MS2 RNA VIRUS AND DNA VIRUS. MID 2019 (MS2 is used as a surrogate for Covid 19 tests)**
- CIMR been **vetted by the United States Air Force** and currently in use at Maxwell AFB, Boling AFB and Andrews AFB and several other installations allowing **NO transference of COVID-19.**
- CIMR is an integral part of the “**Multi-Layered Air Defense Model to Protect Shared Air in Critical Infrastructure Sectors**” authored by the **United States Air Force and Auburn University.**
- **CIMR works by creating 0.02 parts per million (ppm) of a true pure hydrogen peroxide (H2O2) gas from the oxygen and humidity that already exists in the air using a catalytic process and one can work full time in this environment.**
- The hydrogen peroxide gas **diffuses everywhere air travels, continuously disinfecting** microbes in places that other technologies cannot reach e.g. floor-to-ceiling, all surfaces, material and ambient air to include areas seen and unseen and **eliminates viruses, bacteria, germs, fungi, and molds as well as other volatile organic compounds (VOCs).**
- CIMR has been **proven highly effective** against infectious micro-organisms, including Norovirus, E-Coli, H5N8 Virus, MRSA (Methicillin Resistant Staphylococcus Aureus), Streptococcus (Strep), Pseudomonas, Swine Flu (H1N1), nonresistant Staphylococcus Aureus, Listeria Monocytogenes, Stachybotrys Chartarum (Black Mold), Candida albicans, Fungi CNS, Aspergillus, and Bacillus Subtilis.
- CIMR is easy and **economical** to deploy as **stand-alone** units or installed within the **ductwork of new or existing construction.**

CIMR is unique: we know of no other technology that provides this safe, continuous 24/7/365, ozone-free protection, ultra low-level airborne hydrogen-peroxide, scavenging technology. This approach appears to trap and destroy pathogens on both in the air and on surfaces. It further appears to reduce the risk of contamination of COVID-19 and other biologics in the presence of humans, animals, and other life forms.



Q & A