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AIROGISTIC Proposes BioTest Kiosk™ End-to-End, System-of-Systems with BioTrace™ Phone App for Corona-Virus Testing and Contact Tracing

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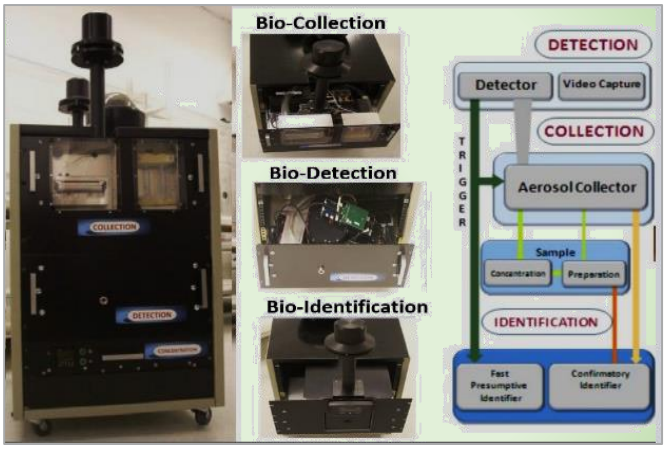
Airogistic LLC, an integrator of biological, IoT and drone system-of-systems with a proven track record of innovation and development, proposes an end-to-end solution for Corona-Virus sample collection, instant inspection, and virus detection for mutation tracking and location-based tracing. The goal of this proposal is to offer a solution that can drastically expand testing and tracking of COVID-19 and future biologic threats through a wide-spread, public-accessible, instant-results testing and tracking app and device.



Why Airogistic?

Airogistic is uniquely qualified to offer this proposal. In 2006, following the failures of detection systems in the US-Iraq war and the anthrax scares in the mid-2000s, we operated as an Internet-of-Things sensing technology company that was engaged by academia and the US military to conceptualize and build operation solutions for US biological defense. From 2004 to 2010, Airogistic engineered novel solutions for detecting, collecting, and identifying airborne pathogen threats. Our technology and systems leveraged connected-device Internet and cloud technologies to locate and find biological threats, and then with networking and connected applications, eliminate those threats.

Airogistic's Commitment to the Community

Airogistic is donating its own funds and energy to provide a detection system and the technology to bring an end to the chaos that Corona Virus has brought to the world. "We are making the information and systems available to any party interested in funding production and deployment for the greater good of humanity at this time of need," states Jeff Michalski, founder and business partner at Airogistic.

DCI - A Tested and Tried Solution

The Airogistic DCI is already a proven solution for collecting and identifying biological contaminants. Airogistic participated in US government sponsored development of these unique test systems for abating biological airborne threats like COVID-19. What resulted was the conceptualization, validation,

and testing of novel biological sensing-systems, including the Airogistic DCI. This equipment was validated in US Department of Defense JBPDS, JBTDS, and Department of Homeland Security Biowatch programs. The system and equipment were tested in the US government's top-tier biological laboratories, including: Texas A&M aerosol laboratory, Edgewood Biological Chemical Center (ECBC), Dugway Proving Grounds, and Battelle Labs.

How DCI Works

The DCI "Detect-Collect & Identify" is system-of-systems which consists of cost-effective consumer off-the-shelf (COTS) technologies and specific functional biological devices that make an initial triage determination if a biological threat is likely to be present. If a threat is detected, the DCI collects samples in preserved saline solution in a sealed, marked liquid vial that can then trigger an immediate MIT "Canary" assay identification of the threat presence. These first two layers of detection and identification result in statistical certainty of ~90% and 99% in target sample tests and studies. This system, while originally designed for spore and bacterial presence detection, can also identify the presence of viruses. Proposed modifications to the inlet stream can capture airborne viral pathogens using atomized PSL and properly doped PSL (industrial Polystyrene foam beads).

The Proposal

What Airogistic proposes is to work rapidly to modify the existing working prototype system to address the specific COVID-19 threat. Within 90 days with an investment of ~$2,500,000, this system can be put into initial production and be deployed to immediately impact the disruptive results of COVID-19 on our society. By providing widespread testing and location-based tracking, the two most important identified requirements for combatting this catastrophe can be activated.

"The technology to address this COVID-19 issue was developed at the start of the millennium, a decade ago. The means and engineered solutions necessary to solve the current threat exist. This technology exists with certainty in both Department of Homeland Security (DHS) and US Defense Department laboratories and historical project records. Many of the US's leading defense department laboratories and prime contractors such as General Dynamics, Northrop Grumman, FLIR, SAIC, SRC, Battelle, Smith Detection and Battelle Labs were active participants in these studies. These companies have the necessary facilities and with proper guidance can rapidly tool and produce systems such as the DCI to solve this current crisis. Mr. Michalski goes on to explain, "All that is needed now is the will and leadership to fully commit US government resources. The US biological industry experts and the high-tech companies and innovators that own these technologies must come together. Funding needs to be applied in a timely manner so the solution can be built and deployed for use at scale. "For the cost of a few US Airforce planes or perhaps 1 navy ship, the needed systems could have been in place 10 years ago", states Mr. Michalski.

System-of-systems

Airogistic is offering the BioTest Kiosk proposal for technical review to all companies, to accelerate the deployment of public COVID-19 test stations. These stations would be set up in conjunction with both Apple and Android BioTest and BioTrace phone applications. This system-of-systems solution would enable non-contact airborne testing, using the DCI tiered, biological-sensing architecture. The end system would incorporate all aspects of individual testing, sample collection and transportation, results communication, and exposure tracking. To accomplish this Airogistic would employ its diverse range of system technologies such as the DCI bio-sensors, IoT sensor and servers, small drones, Android and

Apple phone apps and GIS tracking technologies into an integrated solution end the Corona Virus Pandemic.

The User Experience

The action system would incorporate GIS tracking of the virus through a novel use of a social media and intelligence gathering application developed for use in Iraq and the Middle East and would work as follows:

1. Users would download the BioTest app to their mobile devices, create a profile, and engage in a health-related survey.
2. Users would go to a BioTest Kiosk location that would be used not only for testing, but also to promote engagement in testing and tracing the virus.
3. The BioTest Kiosk would be equipped with a physical barrier to prevent direct contact and visual and auditory instructions for use (with language preference).
4. The user would be instructed to breath normally for a period of time (~4 minutes) into a disposable mask that is attached to retractable tubing that collects the sample.
5. When the sample collection is complete, the tubing would retract, and the user would dispose of the collection mask.
6. The integrated sample transport technologies working together would collect samples and analyze results to provide a 99% accurate individual test result that would be sent to the user in 4-8 minutes via the BioTest app alert.
7. Additionally, to protect the public, health officials would be notified via the BioTrace app, so they can trace the contact of others who may have been exposed.

(The GIS tracking software will be described in a future press release.)

The cloud and app solution proposed is designed to protect personal information while allowing for automated wide-scale public tracing.

Sample Collection and Delivery

Airogistic further proposes that the BioTest Kiosk physical samples of positive virus vials be directly transported to nearby labs via small medical carrier drone technology. Because the physical samples are collected at the kiosks there would be no need for swabbing or blood draws, thereby reducing reliance on our medical front line workers. This solution minimizes both time and the risk of sample-handling in multiple ways by avoiding direct contact with the viable samples and sick patients. It also ensures state, local, and federal governments are connected in the process through their trusted

laboratory partners, who can use the results to track statistics, identify mutations, and provide the most current advisory information to infected individuals, their health care professionals, and the general public.

Confidence and Communication

Individuals would have immediate high confidence in the test results with an initial 99% confidence in the Kiosk results and a 99.999% level of confidence after sample processing and laboratory confirmation. The phone application would also initiate the location tracing and activity tracking for those adversely affected to alert others that infected individuals have been identified in specific areas, while maintaining individual privacy of those infected.

Conclusion

Currently, many doubt that the needed technology exists, and the media asserts that this level of testing and tracking is unrealistic and impractical - though desperately needed. All proposed elements of Airogistic's solution not only exist, but have been tested or previously deployed.

"Breaking down the COVID-19 problem, I am optimistic and confident that all challenges are captured and addressed in this technology and proposal", summarizes Mr. Michalski. "The question is not if we can implement and deploy this solution. The question is if those with resources and power to make it happen can focus on how to solve the problem in front of us!"

About Airogistic LLC

Airogistic LLC, located in Dripping Springs, Texas, develops and builds novel products that support both IoT sensing, biological testing, and aerial drone services operations for applications such as: drone deliveries, air monitoring, sensor data collection, and end applications where fully automated and sensing location and tracking operations are required and being actively deployed. Additional information can be found at the Airogistic website (http://www.airogistic.com).