From: Ross McNutt <mcnuttr@pss-1.com>
Sent: Wednesday, August 14, 2019 1:41 PM EDT
To: Goldstein, Sheryl <Sheryl.Goldstein@baltimorecity.gov>; Ross McNutt <mcnuttr@persistentsurveillance.com>; Martin, Ganesha <Ganesha.Martin@baltimorecity.gov>
CC: spectorr2@gmail.com <spectorr2@gmail.com>; Schnitzer, Sunny <Sunny.Schnitzer@baltimorecity.gov>; Melancon, Eric <Eric.Melancon@baltimorepolice.org>; Davis, Lester <Lester.Davis@baltimorecity.gov>; Gillespie, Elise <Elise.Gillespie@baltimorecity.gov>; William Moore <wmoore@southwaybuilders.com>; mcnuttr@pss-1.com <mcnuttr@pss-1.com>
Subject: RE: Aerial Surveillance Presentation - Answers to questions passed to us.

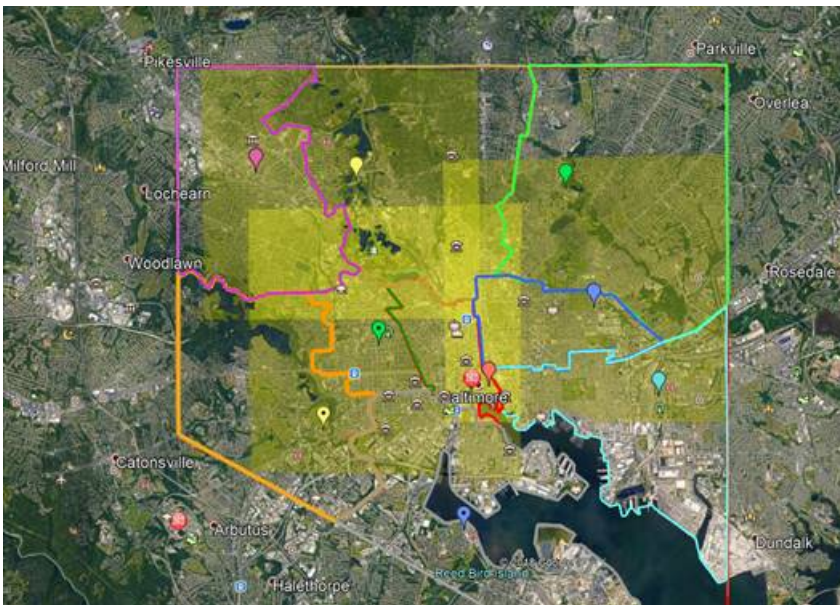[THIS EMAIL IS FROM AN EXTERNAL SENDER]

Sheryl,

I was passed a message that you had a number of questions concerning various aspects of the Community Support Program. I am happy to answer these questions and any others, at any time. The Community Support Program is a well-developed program with a well-developed privacy protection program. Some of the questions I was told you had involved the operation times, the coverage areas, and integration with other BPD systems. I am sure you have others but I will try to answer the questions I was told that you have.
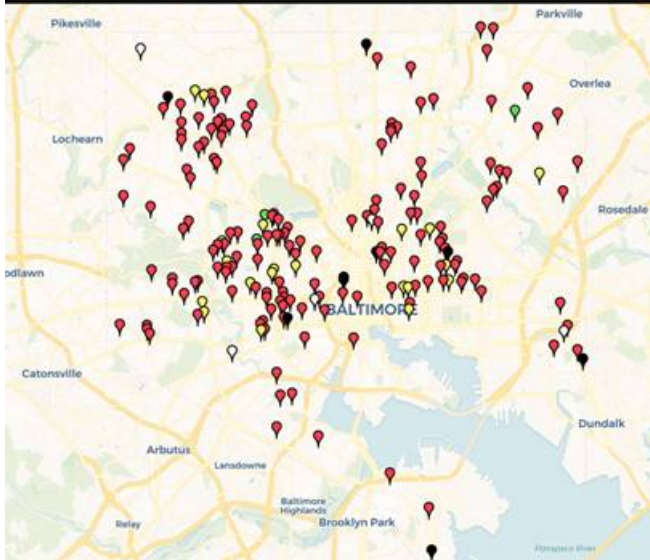
Again we are happy to provide a full briefing on the program to you or your staff at any time. Many of these aspects are covered in our community briefings, and we can answer any and all questions you or your staff may have. I am available at any time at 937-768-0012.

Below are :

The operational times and coverage areas – The donor has offered three complete systems to support Baltimore to demonstrate the effectiveness of the program. Each aircraft can image up to 32 square miles, or a 5.8 x 5.8 mile coverage area, or roughly one-quarter or a third of the city. With three aircraft we would be able to provide three orbits in different parts of the city. We would base the orbits on the West, East and North Police Districts, allowing a downlink location on those buildings. These locations are selected based on the crime statistics and location of reported murders in the city. With these three coverage areas, we would be able to cover areas that include 80 to 90 percent of the murders and shootings in Baltimore. Graphics showing the coverage areas and this year's murders to date are shown below.

212 reported homicides fit the search criteria.

As far as coverage times each plane would fly between 150 to 200 hours per month, or roughly 45 to 50 hours per week. We schedule the planned flight times around the times and locations of major crimes, based on the recent crime data. Times are adjusted based on weather conditions, but fortunately during periods of rain crime often drops dramatically.

One other aspect concerning the flight times is that since a significant part of the effect is through deterrence and people do not always know when the plane is flying, there is a dissuasive effect even when our plane is not aloft. The plane is not visible at the typical altitudes we operate. We are happy to have someone who is thinking of shooting someone walk out, see an airliner, and think maybe not today.

During the test three years ago we received roughly 250 911 calls for service per mission within the coverage area and flight times. We would then prioritize the major crimes as they were reported and provide as much analysis as time allowed. This time we will be hiring more local analysts, so we will have time to investigate all shootings that we captured within the new imagery sets, where we could not last time due to the limited nature of the test program. Some days we had 2-3 shootings within our imagery and could not keep up. With three aircraft flying longer missions we would catch significantly more crime. Last time we provided investigation reports on 5 murders and 18 shootings, including 2 officer-involved shootings, in a total of 300 hours of flight, or the equivalent of just 13 days flying.

Cueing to Crimes and Integration with Shot Spotter System - We are typically notified of crimes by the computer-aided dispatch system. Our analysts see the dispatch notification come in, and go to the reported location within the imagery within seconds. The calls typically come in 2-3 minutes after the fact, so our analysts rewind our data to the time that the incident occurred and follow the people forward and backward from the crime scene.   For shootings, we can see dramatic changes in behavior at and near the crime scene that identify something has happened. Our analysts can be cued to a location quicker and more effectively by a Shot Spotter notification.   Our system has integrated Shot Spotter and other systems to alert our analysts to a reported gunshot and allow the analyst to go to the location and time with a single click.   Shot Spotter can shorten the time to notification and allow our analysts to more quickly get eyes on the scene. This enhances our ability to catch up to the potential suspect or suspects as they flee the scene.

In the 39 murders I have witnessed, the suspect is often 1 mile away in the first 60 seconds after a shooting, the typical time it takes Shot Spotter systems to detect and verify the sound of the gunshot. Our analysts then work to catch up to the suspect by tracking the first few cars that flee the scene and inform officers as to where they are headed or where they have gone. Simply put, we make Shot Spotter much more effective, as normally by the time the officers are notified and respond, the shooter is often long gone before they arrive, leaving little to work for investigation. During our test period three years ago, we were cued to reports of shots fired, saw activity on the ground change dramatically at the location, and followed the cars that fled the scene, but when the officers arrived at the location they did not find the victim or anyone willing to be a witness, so they closed the case as unsubstantiated. As a result, we did not complete those investigations as we had many others were we working with victims.

Interaction with CitiWatch Cameras - When we track vehicles and people from the crime scenes, we identify every time they pass a CitiWatch ground camera. We note the time and camera number, allowing the CitiWatch staff to quickly locate the exact imagery within the 900-plus cameras. In several cases, we had to track suspects from shooting scenes for several miles before they passed a camera. Even when they have passed a camera, as the CitiWatch cameras rotate and are often looking in different directions as the car passes, we found we needed multiple checks to get clear pictures. In one case where both defendants recently pled guilty, we had tracked them for over two hours past 75 CitiWatch ground cameras, and had obtained 28 decent images of them, including them getting on the bike prior to, and getting off the bike after the assault on a police officer. The last defendant pled guilty last Monday, after nine trial postponements where we came to Baltimore to testify.

Again, I understand you have many questions about the program. I am very willing to answer all of them. We are happy to provide a full briefing to you or your staff where we can present the information and answer any and all questions.

Please let me know if and when we can provide that type of information.

Very Respectfully,

Ross McNutt

Ross T. McNutt, PhD
Community Support Program
mcnuttr@pss-1.com
(937) 768-0012

From: Goldstein, Sheryl [mailto:Sheryl.Goldstein@baltimorecity.gov]
Sent: Monday, August 12, 2019 10:51 AM
To: Ross McNutt; Martin, Ganesha
Cc: spectorr2@gmail.com; Schnitzer, Sunny; Melancon, Eric; Davis, Lester; Gillespie, Elise
Subject: RE: Aerial Surveillance Presentation

Mr. McNutt,
I'm looping in Sunny Schnitzer who is the new Deputy Chief of Staff for Public Safety.
Sunny, Ganesha and the Police Commissioner are the right folks to discuss an aerial surveillance program with.
I will be out of town on August 19 th and not able to attend this presentation.
Please let me know if I can be any other assistance.
Best,
Sheryl

From: Ross McNutt <mcnuttr@persistentsurveillance.com>
Sent: Friday, August 9, 2019 4:27 PM
To: Martin, Ganesha <Ganesha.Martin@baltimorecity.gov>; Goldstein, Sheryl <Sheryl.Goldstein@baltimorecity.gov>
Cc: spectorr2@gmail.com
Subject: Fwd: Aerial Surveillance Presentation

[THIS EMAIL IS FROM AN EXTERNAL SENDER]
I am forwarding you this email at the request of former council women Rikki Spector. She wanted you to have the information and talk with you about it when you had a moment. She could not send it and asked me to forward it to you. Her direct number is 410-456-0232.

Sincerely.

Ross McNutt

Ross T McNutt, PhD
CommunitySupport Program
937-768-0012
mcnuttr@pss-1.com

Begin forwarded message:

> **From:** "Ross McNutt" <mcnuttr@persistentsurveillance.com>
> **Date:** August 9, 2019 at 9:38:32 AM EDT
> **To:** <spectorr2@gmail.com>
> **Cc:** <mcnuttr@pss-1.com>
> **Subject: FW: Aerial Surveillance Presentation and Baltimore Magazine**
>
> When: Monday, August 19, 2019 2:00 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Police Headquarters - 601 E. Fayette Street, Commissioner's Suite 5th Floor

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*

Rikki,

This is the time and location of the meeting with Commissioner Harrison on the Community Support Program for Baltimore.   It is scheduled for 2 to 3:30 at BPD headquarters.   I believe it will be a small group including myself, Bob Embry Abell Foundation, Willy Moore Greater Baltimore Committee and a few others providing a discussion of the program and the offer from to return to Baltimore at no cost.

Just to recap what is being discussed.   The Community Support Program is often referred to as the "Eye in the Sky" program and is aimed at reducing major crime in the city by 20-30 percent per year. The Community Support Program is offered to Baltimore at no cost for 3 years, includes all funds to provide the service to support the city, additional funds for additional police officers to use the data to help close cases, funds to support outside oversight of the privacy protection program, and funds for an independent outside evaluation to determine its effectiveness in supporting investigations and deterring crime in the community with the University of Baltimore. This is roughly $2.2M per year for three years.

We look forward to the opportunity to brief the Commissioner. This meeting was at the request of Bob Embry (Abell foundation) and Willy Moore Co-Chair of the Greater Baltimore Committee Public Safety Subcommittee which he Co-Chairs with Mayor Schmoke. We also had requests in for the meeting with the commissioner from Millie Brown with the Tears of a Mothers Cry organization a victims support group and the Community With Solutions Group that has been pushing to get us to return for several years. This has been a long time coming as many community groups have been working hard for the last several years trying to get us to come back. They have organized and we have supported 59 community meetings across the city. The response from those meeting have been very very positive.

We have briefed most of the city leadership and in private most city council members have said that they support the program because of the potential to solve otherwise unsolvable crimes. The community members agree but also like that it holds police accountable by providing the unbiased witness to police activity.   The program showed it worked well during a 2016 test program where in the equivalent of 13 days of flying we observed 5 murders and 18 shootings including 2 officers involved shootings and we provided a lot of useful information to investigators.   Not only do we provide where people a the scene went to but also where they came from. We also identify every ground based camera they pass and the time they pass them magnifying the benefit of the CityWatch Camera investment tenfold. We also tie in with shot spotter system providing us a faster response then waiting for the 911 call to come in. In both cases we can "rewind time" and watch the crimes occur and follow the people and vehicles from the crime scene to the houses to come from and go to and the routes they take. Some of that was captured in a recent book Eyes in the Sky where the author had sat through some of the investigation briefings to detectives. Also we just had another confession on Monday (after 3 years of trial postponements) on an assault on a police officer. That was the second confession in that case based on our data. To date I have witnessed 39 murders as they occurred and have confessions for 75. At the time the Police Commissioner was very impressed and was prepared to move forward. Unfortunately the public notification had not been done for the test periods and the media reaction focused on the lack of notification and not the merits of the program and the ability to reduce crime in the city. The lack of prior notification was a major mistake.

We firmly believe we can reduce major crime (Shootings and Murders) in Baltimore by 20-30 percent within the first year. That represents a reduction of 60-100 murders per year. We do this through solving otherwise unsolvable crime and removing the small number of repeat offenders earlier in their criminal career and avoiding the crimes they would continue to commit. We want to stop them after their first shooting not their 12th murder. We do this without relying on witnesses that are reluctant to come forward. More importantly then solving crimes committed, we reduce crime by deterring crime by showing people that if you commit crime in Baltimore you stand a very good chance of getting caught.   It is ten times better to deter a crime then have to solve on as you save bit the victim and shooters family the grief of losing someone.   The Community groups we have dealt with want us to brief all high school kids to quickly spread the word throughout the city that if you do crime in the city you will be caught and here is how. The reaction we get from people who have seen the program and how we solve crime is impressive.   In the words of one young man who attended our briefing when asked what he thought he said "Man I am not doing nothing."   We want and have always wanted everyone to know about the program as you can not deter someone who does not know the program exists. We hope 2/3 of the crime reduction we

achieve is through deterrence.

We have spent years on our privacy protection programs and the legal reviews. We have an extensive privacy protection program including limiting the resolution to 1 pixel per person so there is no identifying information on a person only a single dot. We look only at locations of reported crimes. We are not predicting crime but only responding to them.   We have developed training and procedures to ensure our analysts are trained and know the acceptable uses of the system.   We also have tools that recorded everywhere our analysts have looked and tools that allow effective management and outside oversight groups to oversee that the system is not being abused. We will also fund the outside positions to ensure that is not. Every track of either people or vehicles must be associated with an approved investigation to be created and we have tools to allow effective oversight as well. Our program has been reviewed approved by Baltimore States Attorney Major Crimes Division in 2016. They have also provided the States Attorney prosecutor training on its use.   Our data has been used in a as been used as evidence in trials (although we usually have gotten confessions). Our data from that test was also used by Baltimore Public Defenders to show innocence and to challenge police statements. That is a major reason many in the community support the program as it just provides unbiased information as to what happened at major crime scenes.

We also provide jobs and a career path to many local people. We plan to hire at least 40 local people as analysts. We provide the training, skills, oversight, and experience necessary to grow analysts and leaders. We also help them get their security clearances that allows them to take some of the 26,000 DoD analyst jobs in the area at Ft Meade and Aberdeen doing similar work but at much higher pay.   You cannot get those DoD jobs without experience and you cannot get the experience without the job. We have trained over 180 analysts who have gone on to DoD and contractor positions. We hope to have similar success in the Baltimore area allowing Baltimoreans access to those high paying positions in the local area.

Below are some of the community groups papers outlining the program.   I also included one of the recent briefings made to community groups in Baltimore.

<<...>> <<...>> <<...>>

We are excited to finally brief Commissioner Harrison on the program and show him how it may help Baltimore and Baltimore Police Department get a handle on the shootings and murders in Baltimore. We are under no illusion that the decision would be solely up to the Commissioner but would rely on the Cities political leadership as well. We have previously briefed most of the city council and the current Mayor Jack Young. When briefed most if all council members in private expressed support including Brandon Scott.   Brandon said that we needed the business community behind it as that was where the power was. Mayor Pugh pushed to have us brief the call to action group and many community groups to build broad based support. We have done both. We have support from the Greater Baltimore Committee Public Safety committee, the Baltimore Chamber of Commerce, the Baltimore Black Chamber of Commerce, a large number of Merchant Associations, and many others in the Business Community in support. From the Community we have held 59 community meeting and we had 42 organizations from community associations represented and ready to speak in favor of the program at the City Council forum President Jack Young forced Brandon Scott to hold in October last year. Many of the community leaders did not get to speak as the council waited 2 ½ hours to before letting the community members and groups present speak and by that time almost of the council members had already left. A vast majority of those that spoke were strongly in favor of the program returning to Baltimore to help reduce crime and hold police accountable.

Again thank you for your support and leadership on this effort. We know you care deeply about Baltimore. We hope we can help make it a great place to live, to work and to raise your kids and family. The first step is to reduce the major crime so people feel safe.

Thank you again.

Ross McNutt

Ross T. McNutt, PhD

Comminuty Support Program

(937) 768-0012 cell

-----Original Appointment-----
From: Harrison, Michael **On Behalf Of** Harrison, Michael
Sent: Wednesday, July 24, 2019 2:15 PM
To: Harrison, Michael; 'William Moore'; Allen, Carvel
Cc: 'Ross McNutt'
Subject: Aerial Surveillance Presentation and Baltimore Magazine
When: Monday, August 19, 2019 2:00 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Police Headquarters - 601 E. Fayette Street, Commissioner's Suite 5th Floor

Requester: COS Melancon on behalf of William Moore, President - Southway Builders 410 332-4134(o) or 410 977-7715©

Background: Presentation of the aerial surveillance system and / or if you would like Mr. Moore to make an introduction w/ Sandy Hillman regarding the Baltimore Magazine piece that could include an article about a BCPD community engagement story