

Meeting Hutt City Council – Finding a means to enrich the Hutt Valley security response.

CommUNITY

Using IT to create UNITY through the COMMUNICATION of our COMMUNITY.

Jonathon Mark Gilbert

Hutt Valley Security Notice board

InTune Technologies Ltd – Trading as LocalTech

01 – Introduction

All for the good of the people

Meeting scheduled for 11:00-11:30am 11th May 2023 30 Laings Road, Lower Hutt CBD

Intention

What do I want\need?

I want to provide a service to the enable to community to request individual cctv installations in areas outside of the councils cctv network areas.

the Concept – Raise \$200,000 – receive a grant as LocalTech, Start a charitable trust or a Inc society?

1. Initial Funding to install 20 individual cameras powered with local power or Solar with additional battery supply. Recording locally or recording remotely to a fixed secure remote location (LocalTech racks located in the secured ground floor storage room of the Lower Hutt Pavilion building). Based on an average of these installations costing up to 3000 each, an amount of \$60,000 is needed to ensure professional completion of all 20. Locations will be picked based on community support. Secondary locations will also be sort for future locations.
2. Initial funding to purchase the hardware required to record and monitor on demand up to 64 remotely located cameras. \$30,000
3. Initial funding for radio gear and its installation onto the Radio tower at the top of the Wainui hill. \$10,000
4. Official usage and 24hour access of the secured storage room on the ground floor of the pavilion building.
5. 3 years funding of a high-speed internet service to the LocalTech Racks located in the storage room of the Pavilion building. \$3900 (LocalTech will cover this cost as it already has a fibre connection to the site.)
6. Funding to develop and produce a working mobile app that provides the community with a means to help each other by being additional pairs of eyes throughout the Valley in the event of an security related emergency. \$30,000
7. Management costs. Monitoring and footage retrieval costs and overheads \$20,000 per year so based on 3 year trial that's \$60,000
8. Uniforms merchandise and identifiable clothing for public events - \$5,000
9. Consumables and minor equipment inc network switches - \$5,000

For the Community

- Increase in security to smaller areas throughout Lower Hutt.
- CCTV coverage of public areas previously too hard to capture.
- Customised installations by working with local home and building owners to capture out-of-scope areas.
- Community group access to quality CCTV equipment at minimal cost.
- Quality advice and quotations based on costs.
- Use of local self-employed licensed security Technicians. Rate limits will apply.
- Wholesale purchasing of hardware to ensure lowest costs available.
- Provide small areas of the community with the confidence that they are safe and their homes are safe while they are away each day.
- Provide Bars, Dairies and Bottle stores and Petrol stations the means to instantly communicate by means of an alert from the previously mentioned app when a situation occurs.

- Provide a means for the community to communicate with their neighbors and share firsthand information when they have witnessed a situation. This has been done so far by means of the Facebook group Hutt Valley Security Noticeboard which to date has 14,000 members. With close to 7,800 of these members located in Lower and Upper Hutt with another 3100+ being located in Wellington City. Making approximately 10900 members located Between Wellington City – Upper Hutt. This is the forum intended to be used for publicity of this community service. This service will ultimately be moved from Facebook to the mobile application.
- In a natural disaster establishing a local communications network is vital. The application will be designed to run via a local wireless network provided by LocalTech

Breakdown Concept needs

1. There are many more than 20 locations that could be assisted by this service. However, 20 is an achievable number of locations to be able to complete within a 12 month period. There will be a survey put on the Facebook group Hutt Valley Security Noticeboard to have people make submissions as to where they would appreciate having additional cctv coverage. This will then go through a process of finding sites that are at most risk \ will benefit most from having 1 or 2 cameras installed. This will in part consider -
 - a. the level of impact the installation would have on the area.
 - b. The range to which this installation will benefit.
 - c. The ongoing costs of running a camera in this location.
 - d. The vulnerability to damage the camera in the location.
 - e. The level of difficulty to install and service the camera with its safe location installment.
 - f. Access to reliable mains power.
 - g. LocalTech network access
 - h. Tall Buildings would be good to try for the coverage of a larger area with a smaller resolution of the finer details. This provides us with car shape and colour. But not descriptions of drivers or number plates. So for bars in particular having a higher camera covering a much wider area means we can gather more details on the movement of a vehicle already identified.
2. This \$30,000 would be used to purchase the first high speed Video recording server for the service. This would be custom built and designed to handle up to 64 cameras. The retention period is to be no shorter than 8 weeks. The expected specifications will be a suitable graphics card to ensure maximum resolution can be seen on the screen. A suitable 8k screen that can provide ultra-high definition of multiple cameras feeds at once. This will also be required to have a 10GBPS ethernet adapter to ensure maximum throughput from the multiple data sources to the cameras.
3. LocalTech are offering to provide their radio tower located at the walking bridge on the top of the Wainui hill for installation of radio gear to provide wireless access links with substantial coverage over Lower Hutt city through to Petone and Seaview as well as on the hills of korokoro and horokiwi. and the majority of Wainuiomata. Among other locations. LocalTech requests the council for any sites that may be used to relay the wireless network further north from Tirohanga
4. LocalTech (InTune Technologies Ltd) owns a large amount of fibre equipment and 3 full tower networking racks and some networking hardware located inside the Storage room on the ground floor of the pavilion building. This is a highly secured room and would best be the most suitable and cost effective location for the Recording hardware required to run the recording servers. As it is the POP for LocalTech's lower hutt fibre

route, it has the connectivity options it needs to handle the multiple camera streams and existing fibre connectivity to the comms room at the lower hutt police station for on demand footage transfer. LocalTech usage of the room would be restricted to the rackspace and the fibre cabinet on the wall.

5. Localtech will provide these connections as long and it can provide the systems 24 hours support. Smartlinx3 – the previous owner of the networks in the room has this access but during the changeover this was not provided. It has restricted the repair of the local networks and caused constant interruption to the IT support team who have had to come over and wait with me while I rush fixing whatever is wrong. And no after hours ability to fix anything when a problem arises.
6. A mobile application. \$30,000
 - a. This application will have several key features.
 - i. The ability to alert any users within a set geolocation range and provide a range of details
 - ii. The ability to respond to an alert and send pictures, videos, audio and text. All messages are geotagged and timestamped.
 - iii. The ability to message between users. Create message groups and manage alerts.
 - iv. The ability to record video and or audio and take photos.
 - v. The main screen wall will be the Hutt Valley Security noticeboard group feed.
 - vi. The ability to post to the facebook group from the app. Which may require getting it setup as a Facebook approved app. But only have this facebook link work if they specifically try to comment from the app. With a cancel button.
 - vii. Setting up a response alert for Bars. When an alert is triggered a request for monitoring is enabled. Approved members (must be COA Private Investigator or higher cleared) will be able to log in and start reviewing feeds to provide police with up to date movements of the people involved.
 - viii. Configurable per user or group. Ie. A bar may have their staff with the app. But not tracking them. This gives them the ability to use the app but not have to give up their daily movements. The home screen could be set to the alert button and on activation it begins to record audio and video and saves per second to our secure servers. This then sends out invitations to the preset alert list for them to join the call and watch the live stream. Once it is ended it is then sent to these contacts message service on the app.
 - ix. There will be an option to send this out to a local geolocation ranged area based on the type of situation is happening. Some short options will help to decide this. Is everyone still onsite? Are they on foot? What is the registration of the car? Are there any stickers or special features on the car? Roof racks? Bumper bars? Broken lights? Is anyone else in the car? What direction did they leave in? then show a map of where they are and allow them to draw with their finger where they last saw them go.
 - x. when the alert button is pressed when in a preset group the alert will start. If it is not a preset configuration then it will start recording video and audio and prompt for several questions such as a screen with several common options. A car being broken into. A robber attacking a house. A robber attacking a pub. Something dangerous is happening now. Something happened in the past. Something dangerous is likely to happen in the future. With follow required questions, once the details have been sent out, additional details can be

- added. A bar robbery might be to ask the user to explain what happened while recording ask much as they can.
- xi. The screen should also turn tinted with white text explaining what to do. With a button to turn off the tint. This is to enable a user to set off an alert and hold the phone while it not having a bright screen.
 - xii. the ability to run in the back ground is also required so the user can lock the screen and keep the recording going.
 - xiii. Admin must have the ability to block a user and their Mac address for a period of time or permanently. Also the ability to track a user on special request from the user. In cases where the phone has been lost or stolen.
 - xiv. When setting up a user, it will require a series of verification steps. Mobile number verification confirms they are a real person. Imei confirms it's a different phone. Facebook verifies they are invested in using the app. Mac address helps keep track of spam users.
 - xv. It must be id10T proof. Simple use. Setup needs to be in plain English and use simple memorable icons
 - xvi. This app provides the user with the ability to track their phone when it is missing. Send an alert out wider if the user has come back to find their car missing. Or a closer alert if they find their car broken into. Be alerted by those around you when others are robbed. Assist others around them when others are robbed. Securely private message their buddies who also have the app. And when there is a natural disaster and communications are lost. A few generators and app users will be able to connect to local wireless networks and continue talking with each other.
 - xvii. All of this data must come back to a secure server. The data then kept for a fixed amount of time before being overwritten with new data.
 - xviii. The app needs to be free. And it needs to be sponsored by the lower hutt council. Maintaining the running of the app and its servers if run from the pavilion building racks should be minimal and LocalTech can provide a static IP and any internet service needs.
7. Management costs. This provides some funding for management of this service including initial monitoring on demand footage downloads and organization and implementation of service requirements. \$20,000 per year. Additional staff may be required however we would be looking for additional sponsors at that point.
 8. Merchandise, uniforms etc. promotion of the application and our services.
 9. Consumables and network switches. Bits and bobs to make it all work