PANDEMIC IMPACT CONTROL SYSTEM (PAIMCOS).

We believe that you have a key role to play in defeating Covid-19 so that Lives are Saved and Economies re-Opened. Our Large-Scale Quarantine Monitoring System is the final piece in a chain that turns the Test, Track and Trace System into a Test, Track, Trace and Monitor System. The ability to monitor effectively those who are required to quarantine is key to controlling the Virus. Our system enables home quarantining on a large scale. It will reduce the use of quarantine hotels and avoid the costly lockdown of areas and regions. Quarantine monitoring is key to controlling the Virus. In turn, it facilitates borders and economies opening as quickly as possible.

The system uses geo-fencing in conjunction with SMS messages. While it relies on people possessing a mobile phone, **it does not require any app downloads.**

Our solution makes sure that people are where they should be. Failure to respond is taken as a violation of the quarantining terms. This procedure addresses the issue, as previously reported in Victoria, that up to 25 percent of a quarantined group is not in fact obeying the rules.

Already we know that very effective Contact Tracing systems are in place. Quarantine monitoring complements these systems. The ability to quarantine quickly and efficiently groups of people, or geographical areas (hotspots), limits spread. This, in turn, is essential for a **controlled** return to normality.

So far, reliable quarantine approaches have relied on dedicated venues. While in most cases this approach works, it has **capacity and price constraints.** The solution presented here addresses these limitations. It also allows a fresh approach to both testing and important target groups:

- Where **testing** is concerned, quarantine ends only when a negative result is received.
- The system is especially effective with **target groups** including returning Australian citizens and returning overseas students

Some further central benefits of the system are:

- Low cost, with ability to scale up rapidly
- Operational using SMS on any mobile, Apple or Android
- The system does not have privacy implications. There are no downloads. Nor is there a need for a background system. Monitoring stops when messaging stops.
- The system includes fraud detection with fast triage at venues such as campuses, sporting events and border crossings. No special infrastructure is required on site.

- Importantly, the system provides a clear separation of duties – a Registering Authority (Health) and a Monitoring Authority (Law Enforcement)

We do have a **prototype working**. The system can be scaled up in around 4 weeks to Stage 1 for providing large scale quarantine monitoring that would be needed in the scenarios described above: testing and return of overseas citizens or students. Additional functions such as border, campus and venue checkpoints – Stage 2 – will require a further setup time of 4-6 weeks.

In addition, the system addresses the following issues:

- People from diverse language groups
- Defence against spam and robo calls, scams and cyber-attacks without the use of passwords, entered or memorised
- Fast triage at checkpoints, requiring only an ID document. The solution involves less overhead than the current registration requirements at venues (cafes, pools, on-campus etc)
- Fraud detection is operative at self-quarantine locations, venues and border checkpoints
- Fraud prevention is provided using an AI driven approach to apply fraud deterring measures.

Please note that all these functions are provided under the same fundamental principle: **no downloads required and support for both Apple and Android.**

Our request is that you provide us with the opportunity to demonstrate and tell you more about our PAIMCOS Monitoring System.

Sincerely,

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