



Social Distancing and Isolation

The onset of COVID-19 has taken us all by surprise with its insidious rapid rate of infection and it has introduced a new dynamic in our lives that may just become the new norm; social distancing and isolation.

Humans are social creatures and *social distancing and isolation* are unnatural and uncomfortable notions to adapt. As undesirable as these new circumstances are, they are the proven way to survive this dreadful pandemic.

In order to meet these new norms, we have developed an advanced suite of services and wireless products that enables us all to be part of the solution, by socially distancing and isolating ourselves, thus mitigating the risk of this new highly virulent contagion.

The New Reality

How can we measure / monitor effectiveness and compliance?

- Social distancing
- Isolation compliance
- Automated wellness checks for the elderly and physically challenged
- Provide hands-free automation in public places (ex. traffic light pedestrian crossings, doors, turnstiles, others)

All solutions center on occupancy detection - people detection, spaces / gaps between people, visitor presence detection, activity monitoring, etc.

With low cost wireless sensors we can determine when people are present and automate reminders and alarms:

- in predefined zones,
- sitting in chairs, waiting rooms and standing at counters,
- factories, processing plants, malls, greenhouses, markets
- buses, trains, streetcars, subways, benches, escalators
- churches, places of worship, public eating areas, restaurants
- prisons, the military, airports and any large institutions
- any room where people may go to or congregate
- automated wellness checks for the elderly
- automate crosswalks / doors to eliminate transfers when button pushing

The Solutions

There are 3 key areas in which our solutions can make a difference

1. Social distancing

- Improve compliance with automated reminders
- Collect and analyze data for better decision making
- Help reduce and trace community outbreaks

- ❖ Social distancing is important everywhere
- ❖ We can measure, alert and report on social distancing facts in real time.
 - Schools – what happens when we go back to school?
 - Hospital waiting rooms, crowded buses, streetcars, trains and subways, airports etc.
 - Example – waiting rooms – “seating allowed on every other seat”.
 - Built in intelligence allows for automated immediate responses (1 second) - reminder alert, alarm or text) when rules are broken
 - We inherently measure occupancy at each seat and report to the cloud on 30 second intervals

DATA IS IMPORTANT, it answers the question – Are people listening?

2. Isolation Compliance

- Improve compliance through automated monitoring
- Help reduce and trace community outbreaks (contact tracing)
- ❖ Measure and report on isolation compliance in real time
 - Did this person stay put?
 - Were there any visitors?
 - Did they come in?
 - How many people?
 - Automated immediate response (text & alarms) to rule breaking
 - Help with the traceability for outbreaks

The DATA will give us an advantage for this round and help predict future trends and make plans for how to react

3. Automated Wellness Checks—This is Critical

- Better care for our elderly who should minimize visitors
- Peace of mind for loved ones, caregivers
- Provide automated wellness monitoring for seniors and those living alone in isolation-the most vulnerable people
 - Elderly, Private and Long-Term Care and Retirement Homes Monitoring, The Most Vulnerable
- Low cost sensors are synchronized to GMT
- Built in intelligence measures mobility and activity levels
- Emergency response directed to exact location in home or residence where the emergency exists within 3-5 seconds of event.
- Entry / exit notification
- Visitor notifications
- Lack of activity notification
- Other rule based observations (kitchen visits for example)
- Fully automated with exception based alerts
- Isolation compliance is measured and could be monitored
- DATA IS IMPORTANT in this time of crisis