IoT WoRKS™ by HCL Technologies

HCL

Zero-contact Premises: Live Social-Distancing Monitoring solution

A COVID-19 Imperative

About The Solution

As the world grapples with containing COVID-19, in the absence of a cure or a vaccine, one thing has proved to be enormously successful in stemming the spread of the deadly pandemic – social distancing. Accurately monitoring real-time locations of people in public spaces & workplaces is critical to ensuring containment.

The Live Social-Distancing Monitoring (LSDM) solution by **IoT WoRKS™** utilizes radar sensors, AI models and distributed computing to accurately track real-time locations and represent them as live, contextual insights & reports on web-based dashboards – enabling round-the-clock monitoring and pro-active maintenance of public and workforce safety, creating safe, zero-contact premises.

The rapidly scalable, high ROI solution runs independent of individuals' devices and the edge architecture doesn't store their data – thus easing privacy concerns.

1. COVID-19 is extremely contagious (R0 of 2.2), has a very low serial interval (~4 days) and can spread unchecked if social distancing measures are not strictly implemented. This makes live monitoring of hotspots critical

2. Average cost of treating a COVID-19 patient is ~ 30k USD. If the number of cases requiring hospitalization increase, this puts tremendous pressure on the public healthcare system, putting a massive strain on already thinning resources

3. While most businesses are forced to shut shop, critical businesses & public services continue operations with reduced resources. Maintaining compliant & safe workspaces, in line with social distancing norms is critical to regain business normalcy and ensuring stable economy

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Solution Differentiators :

- Accurate real-time tracking of people: 10 cm precision
- Independent of end-user devices, low cost solution
- Unaffected by adverse conditions: fog, rain, smoke
- Easily retrofittable, minimal IT requirements

Features:

Dwell Times can be correlated with various operational throughput times (queues, wait times) and impact of social distancing, enabling adjustments in real-time for smoother operations

Real-time Alerts generated when queue length, people in enclosed area cross threshold; solution can be combined with infrared/thermal sensors to set off alerts on potential threat of infection in premise

Heatmaps and Interactive Cloud-based Dashboards enable visibility of real-time and legacy insights. Live metrics enable monitoring footfall, crowds and accurately identify hotspots for taking action

Advanced Insights track footfall patterns to help end-users safely plan trips; integrate with hotspots from healthcare systems to detect spread, and device-specific contact tracing systems to alert admin

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Benefits:

Redefine New Normal: Stay one step ahead of COVID-19 by utilizing advanced insights to help slow down spread, minimize losses and reducing avoidable healthcare spend

Automate Social-Distancing: Round-the-clock monitoring of real-time foot traffic, heat maps & locations, and automated alerts enable a pro-active approach in automating social-distancing

Optimize Operations: Optimize in-premise layout, plan for queues, wait times basis real-time and historic footfall & dwell time data to ensure smooth business continuity and better load handling

Ensure Safe Premises: Maintain business continuity, profitability and ensure safety of people & workforce, through alerts & maintaining distancing compliance with government norms, in premises

Scale & Transform: Easily retrofittable, low IT requirements and distributed computing enable scaling up across various locations and transformation into securely monitored environment

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IoT WoRKS™ showcase