CONTACT HARALD GATEWAY IMPROVING CONTACT TRACING

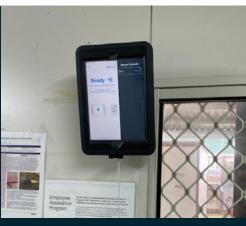**MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY**

The Gateway automatically uploads Contact Harald contact data as workers pass-by, speeding up contact tracing for positive and close contact Covid-19 cases.

The Gateway was positioned at entry points to sites and enabled automatic uploading of Contact Harald card details when within 5m.

The Gateway provides remote uploading of contact tracing data via smart phones. This provides an instant approach to uploading data and ensures rapid response to Covid-19 contact tracing.

⚠️ Gateway with accompanying Contact Harald wearable Bluetooth card (left) Gateways located around high traffic common areas and offices (right).

The Situation

To continue operating during the Covid-19 pandemic, construction sites were required to undertake contact tracing of all positive Covid-19 cases and close contacts to prevent the spread of Covid-19.

Covid-19 contact tracing using a manual system lacked precision and was a time-consuming process that used subjective information. Often, when caution was applied, workers were sent home to quarantine as their proximity to a Covid-19 positive case could not be confirmed.

Contact Harald technology (as described in LSP 0010/24122020) was previously implemented on site, which provided fast, effective, and automated contact tracing via Bluetooth technology. This was further improved with the introduction of the Gateway.

The Solution

As an improvement of the general use of Contact Harald as described in (LSP 0010/24122020) the 'Gateway' (iPad with specific program) was implemented on site to improve the contact tracing process. Bulk or individual notifications via the Contact Harald data base allowed potential close contacts to be informed within minutes of being identified.

With the Gateway, the risk of further infection spread was reduced by eliminating the need for individuals to collect potentially contaminated cards manually.

Additionally, the Contact Harald Gateway allowed for accurate proximity data to be used for Covid-19 contact tracing and remote upload of data. All data collected was then able to be analysed for infection spread among potential contacts within 15 minutes of initial positive case notification.

Benefits and learnings

The introduction of the Contact Harald Gateway allows accurate contact tracing to begin immediately. Principal benefits of accuracy and speed of contact tracing led to the reduction of people quarantined because of direct & accurate non subjective data.

Benefits of the Gateway rolling out across three interfacing projects, also enabled:

- Interface between the contactors at the Workfront and meetings
- Experience in use of the Contact Harald system was shared
- One key contact person for Contact Harald, Project and Client
- Reduced materials and cost as shared between three contactors.

Cost of Contact Harald Gateway setup and maintenance including Contact Harald cards was $25,000 over 18 months.

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