



PEOPLE AND TECHNOLOGY

Actionable Geolocation Intelligence and Smart Sensing

VESTIGO

Actionable Contact Tracing system
for Infectious Disease

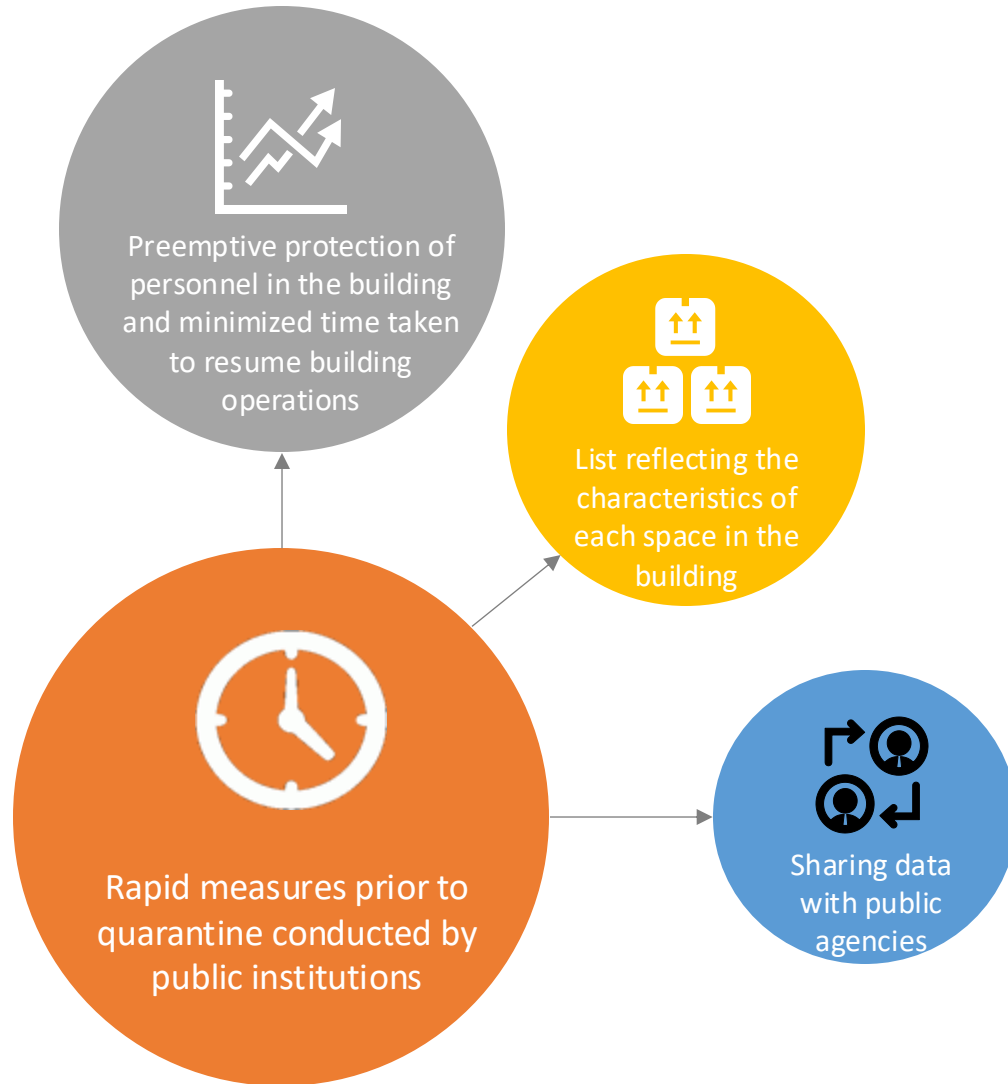
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VESTIGO

Latin verb root of “to trace/investigate”

VESTIGO – Contact Tracing

Why is it necessary to track the movement of infected people within a building?



DETECTION TIME

Since infectious disease tracking is a race against time, the time from epidemiological investigation to quarantine conducted by public institutions can be shortened by introducing a CONTACT TRACING system in the building.

BUILDING BUSINESS FINANCE

Minimize the period of building closure and business suspension through rapid cooperation with authorities after the discovery of a confirmed case. You can take primary measures on your own before public quarantine.

SHARING AND COLLABORATION

Rapidly share information with building occupants and tenant businesses before public agencies intervene. Share contact lists and disinfection area information with authorities to enable prompt resumption of business and cooperation in additional epidemiological investigations conducted externally.

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Purpose and Core objectives



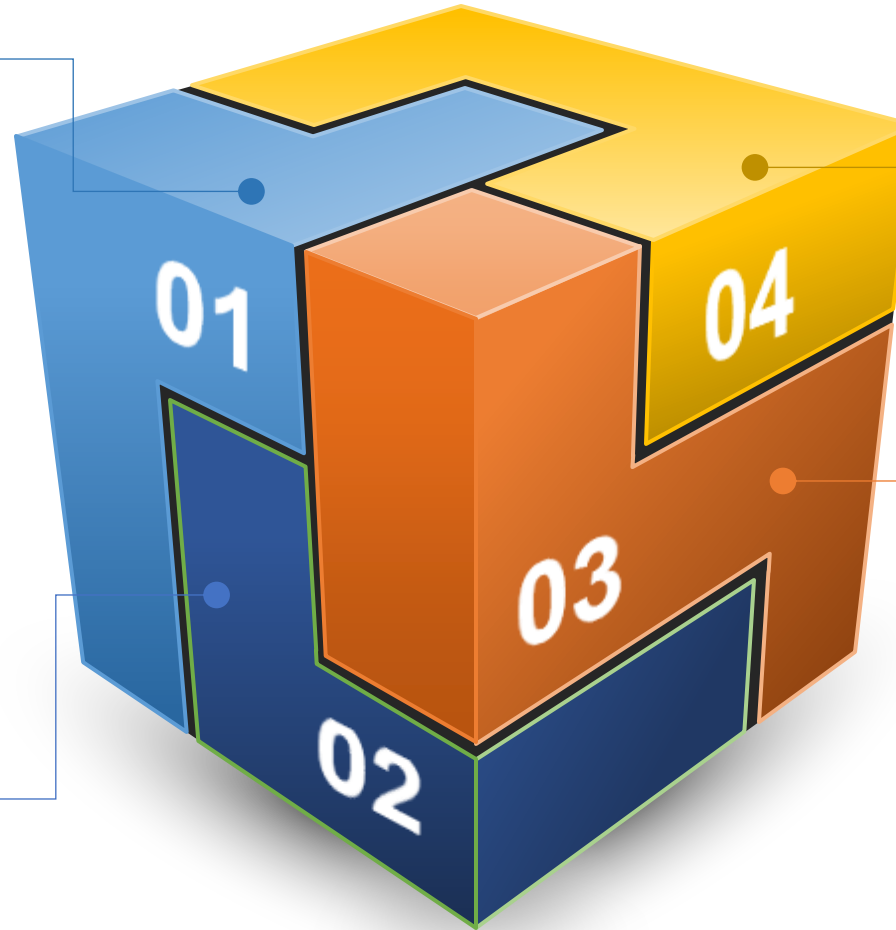
A race against Time

As soon as a confirmed case is reported, the movement path and contacts in the building are identified.



Social distancing

Implementing social distancing policy among people in the building through systematic intervention



Data Sharing

Deriving shared data to cooperate with epidemiological investigations conducted by quarantine authorities, local governments, etc., and sharing information with building users



System flexibility

Flexibility of input conditions for contacts that will be used in the event of another infectious disease outbreak in the future

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(Infectious Disease) Monitoring of medical staff and patient movement data

During outbreaks of infectious diseases, tracking staff movements can help in identifying potential exposure risks and implementing quarantine. > Epidemiological investigation of patients and contacts with infectious diseases within the hospital has become possible.

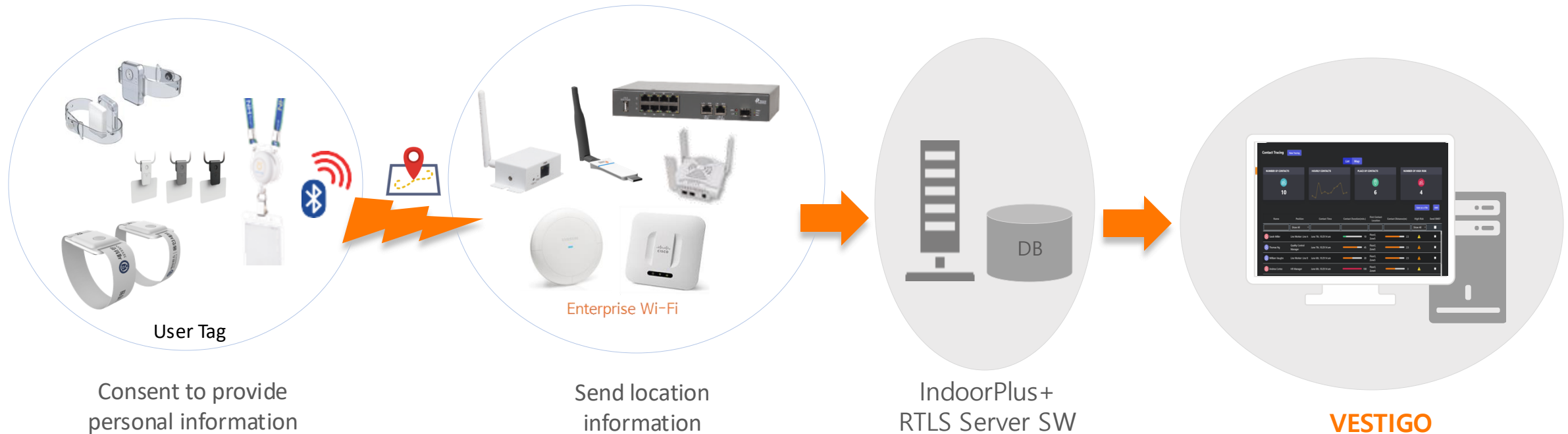
How it works:

- Tracking the movement of patients in the hospital during an infectious disease outbreak
- Identify the movement of patients in the hospital by time zone
- Isolate patients and quarantine the relevant area
- Prevent post-disinfection through data-based isolation measures



SYSTEM OVERVIEW

Location data collection >> Location information extraction >> Information analysis >> VESTIGO ACTIONABLE



INSIDEVESTIGO



CONTACT TRACING

Start the search by entering confirmed patient information

Contact Tracing

PLEASE PROVIDE THE FOLLOWING INFORMATION :

Disease	<input type="text" value="Choose a Disease"/>	<div>Select a template for each infectious disease condition</div>
Name	<input type="text" value="Enter a name to trace contacts"/>	
Date	<div>Start Date <input type="text" value=""/></div> <div>End Date <input type="text" value=""/></div>	<div>Enter the asymptomatic period of the confirmed case, contact distance, time Enter the condition value for defining the contact</div>
Contact Duration	<div>HH <input type="text" value=""/></div> <div>MM <input type="text" value=""/></div>	
Contact Proximity	<input type="text" value="Meter"/>	
Include everyone in the 'closed' Zone?	<input checked="" type="checkbox"/> Yes	<div>Option to include power sources in enclosed spaces such as elevators, patient rooms, and conference rooms in the contact list</div>
Minimum Stay Duration for Zone Sterilization	<div>HH <input type="text" value=""/></div> <div>MM <input type="text" value=""/></div>	<div>Determine quarantine priorities based on the time spent in the infected person's movement area</div>

CONTACT TRACING LIST VIEW

Contact list and infection risk: contact time, contact space characteristics, infection risk


Contact Tracing [Andrew Miller]

New Tracing

Andrew Miller


ListMapGraph

NUMBER OF CONTACTS




10

HOURLY CONTACTS




NUMBER OF CONTAMINATED ZONE



6











NUMBER OF CONTACTS AT HIGHER RISK



4

Save as a File

Send SMS

Name	Position	Contact Time	Contact Duration(min.)	First Contact Location	Contact Distance(m)	High Risk	Send SMS?
 Sarah Miller	Line Worker: Line A	June 10th, 9:57:41 am	<div><div></div></div> 10	Floor2, Zone5	<div><div></div></div> 2.5		<input type="checkbox"/>
 Thomas Ng	Quality Control Manager	June 10th, 9:57:41 am	<div><div></div></div> 45	Floor2, Zone5	<div><div></div></div> 2.5		<input type="checkbox"/>
 William Vaughn	Line Worker: Line B	June 9th, 9:57:41 am	<div><div></div></div> 30	Floor3, Zone5	<div><div></div></div> 2.5		<input type="checkbox"/>
 Andrea Cortez	HR Manager	June 9th, 9:57:41 am	<div><div></div></div> 100	Floor3, Zone4	<div><div></div></div> 3		<input type="checkbox"/>
 Andrew Graham	Mover: Logistics	June 9th, 9:57:41 am	<div><div></div></div> 120	Floor2, Zone1	<div><div></div></div> 3		<input type="checkbox"/>

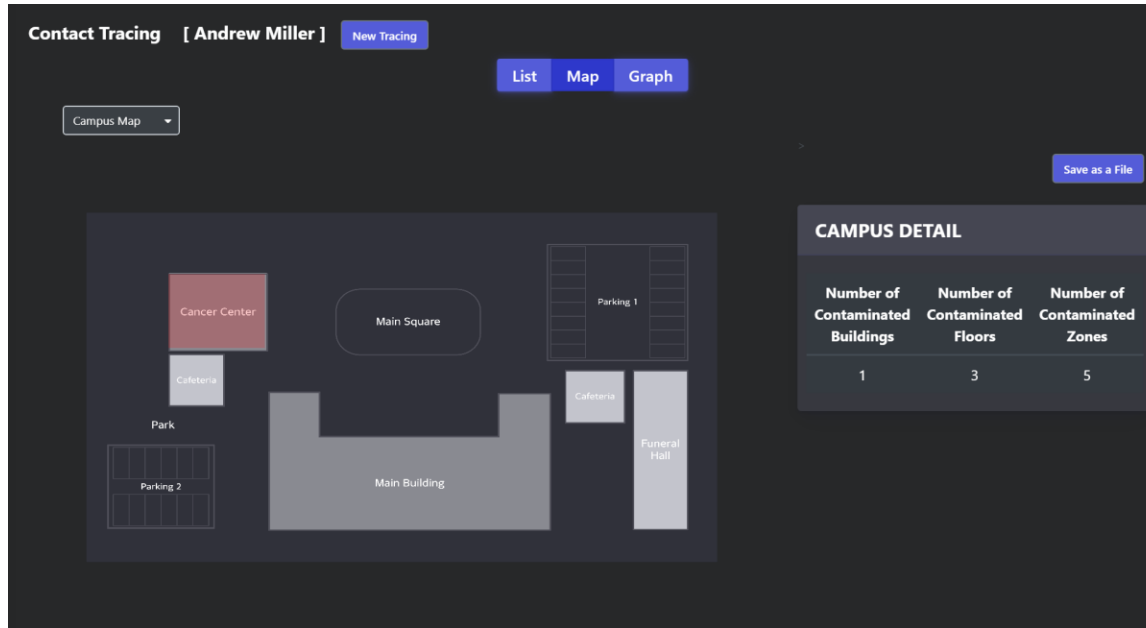
Save to file and share with other organizations

Send SMS to your contacts who can be reached

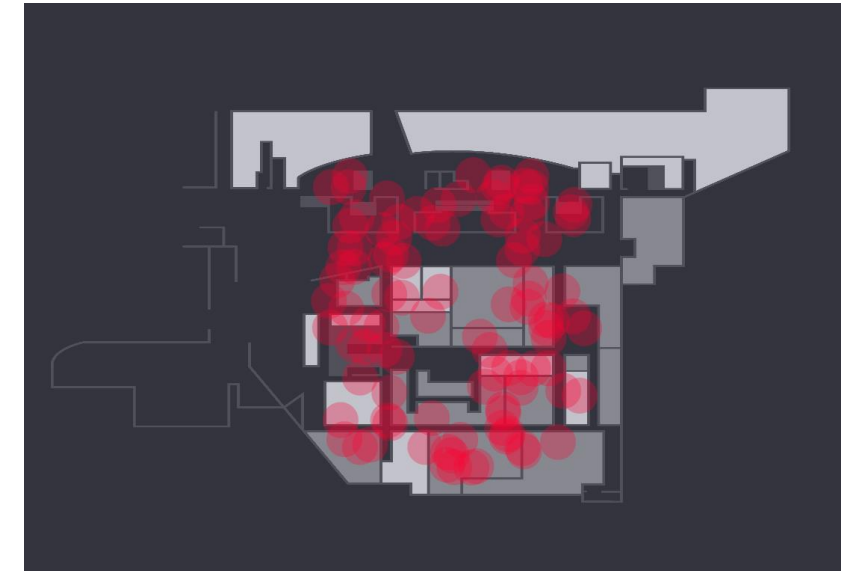
List of risk factors for infection based on contact time, space, and distance

CONTACT TRACING MAP VIEW

Determine quarantine priorities by tracking the infected person's movements and share with additional possible contacts



Show buildings and floors visited by infected people



Tracking the infected person's movements in the building and on the floor (heat map)

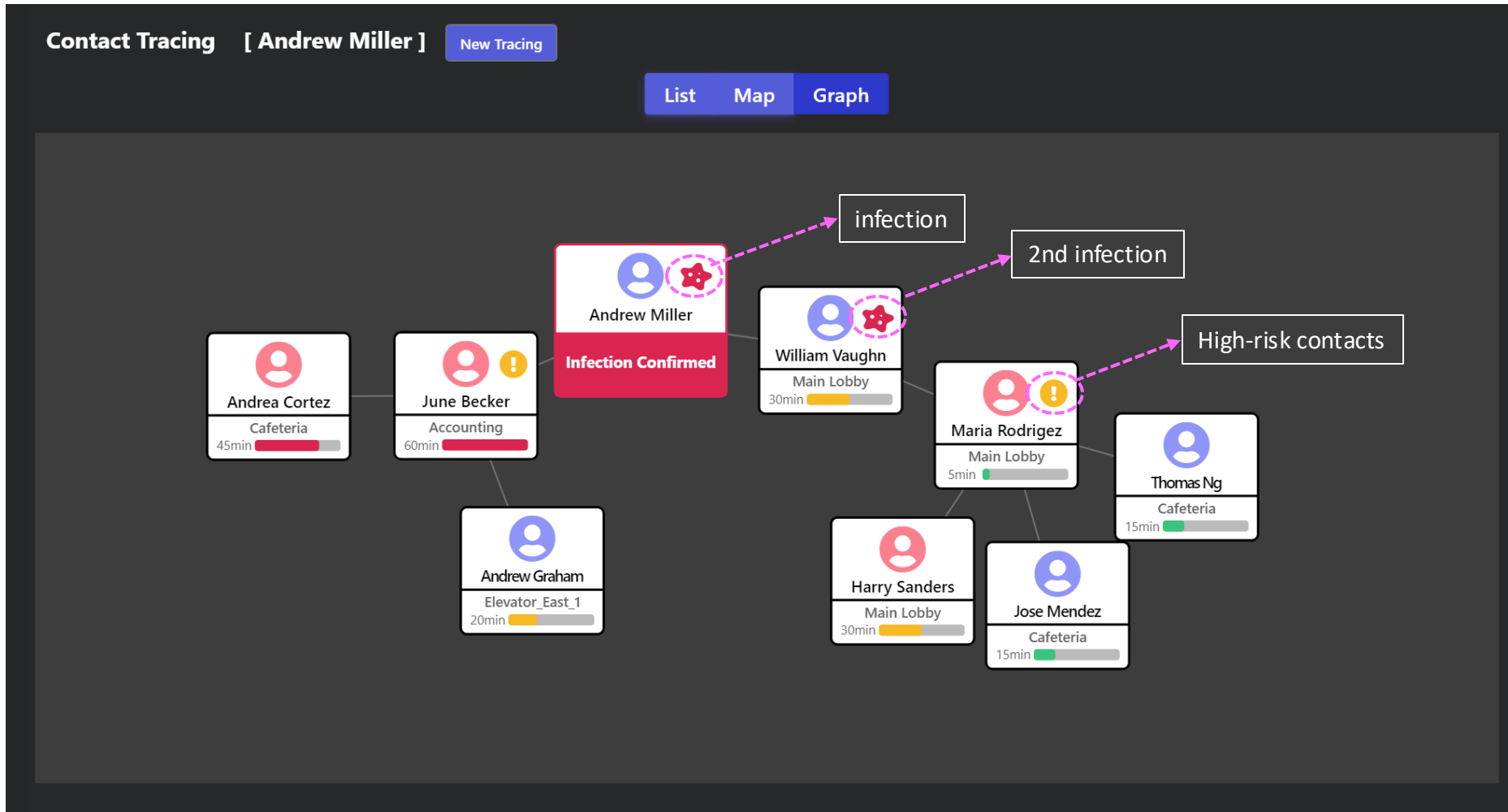
Identify disinfection areas

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Share information with visitors to the area during the search period (SMS)

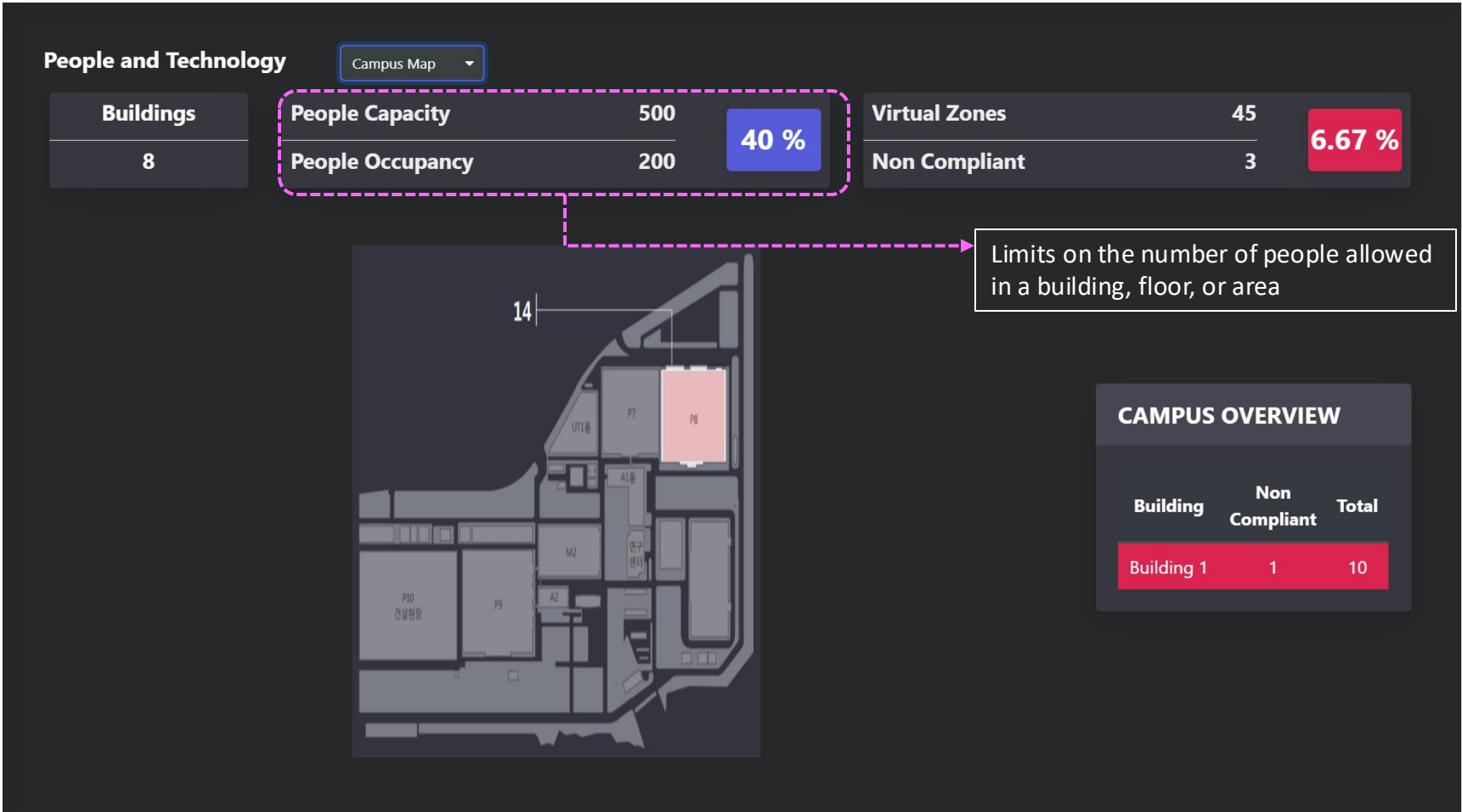
CONTACT TRACING GRAPH VIEW

Identifying secondary infections through correlation between contacts via graph view



CAPACITY COMPLIANCE

Social distancing in system interventions – normative in buildings



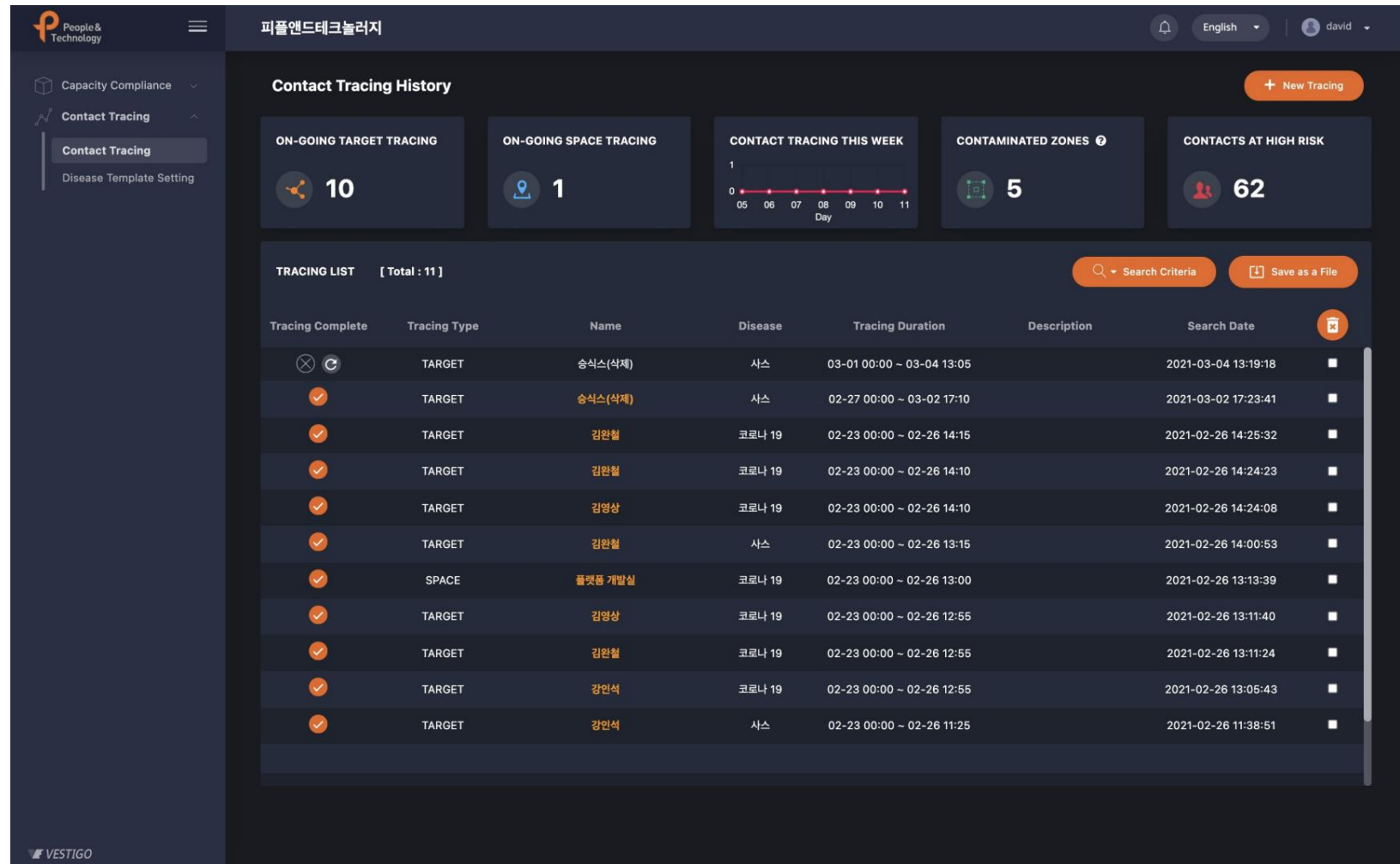
VESTIGO – Contact Tracing

Dashboard

In the event of an infectious disease outbreak, the patient's movement path and contacts are identified and provided in a report format as shareable information.

Features

- Current epidemiological investigation cases and confirmed cases movements are identified.
- Deriving a list of disinfection areas and contacts minimizes the possibility of closing the entire building.
- Cooperating with external disinfection companies and quarantine authorities by saving files for information sharing.
- Identify and isolate contacts in the shortest possible time before quarantine agency intervention.



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Nth infection graph

Epidemiological investigation of secondary infections from the first confirmed case

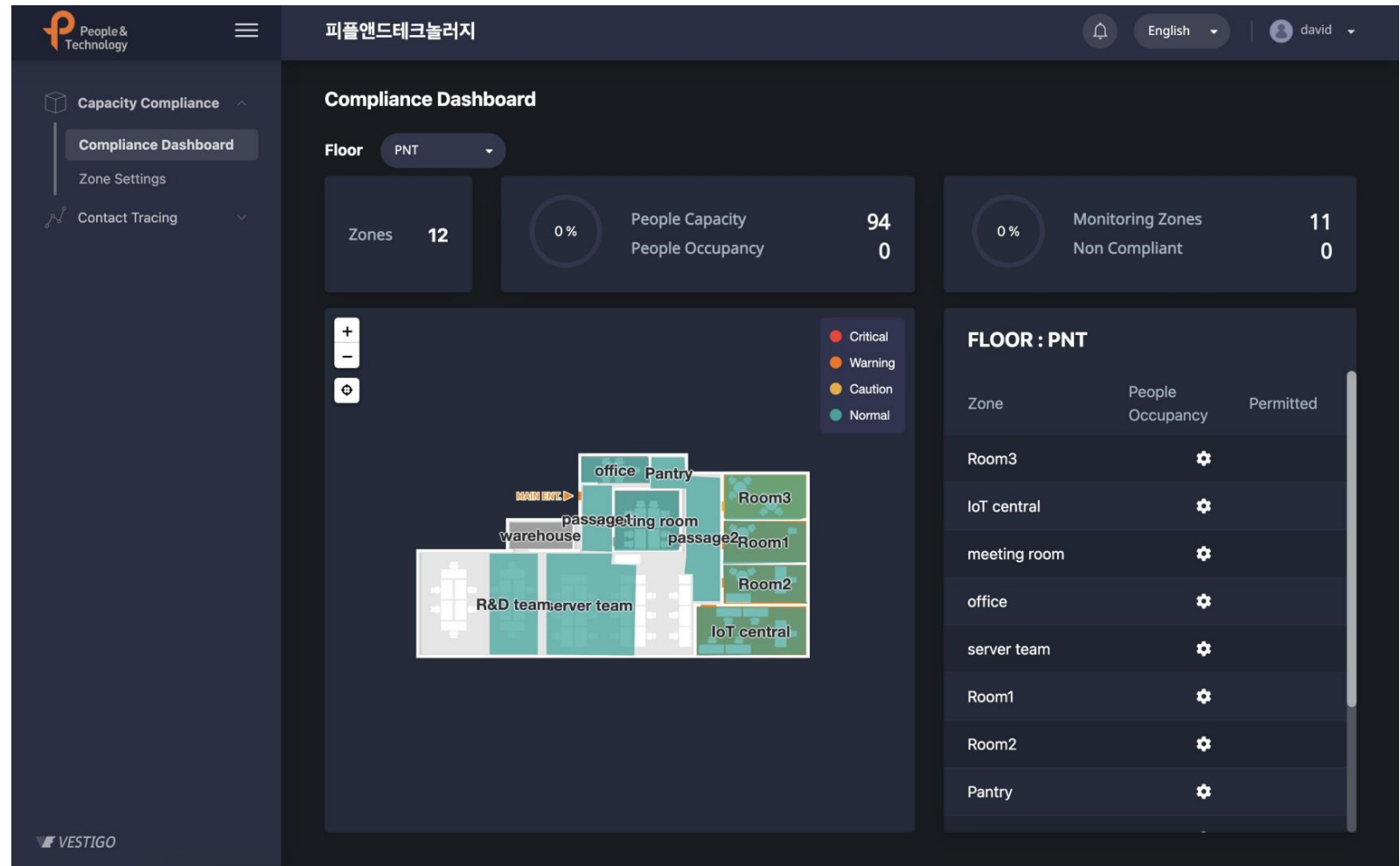


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Heatmap to manage crowd formations

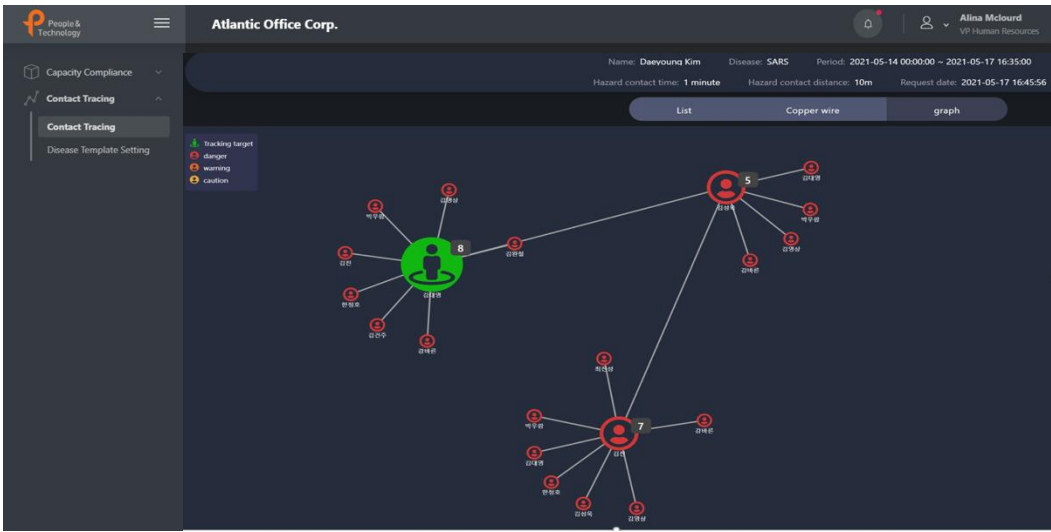
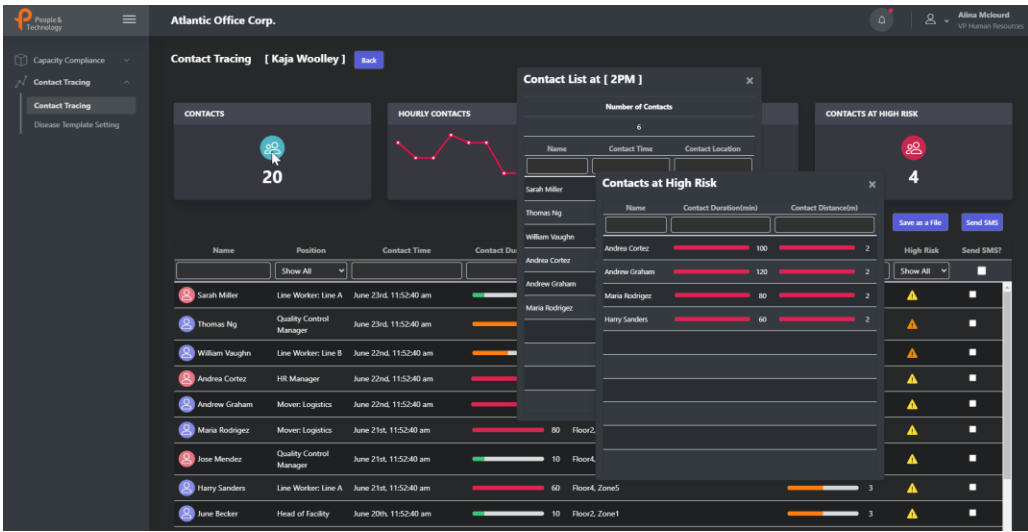
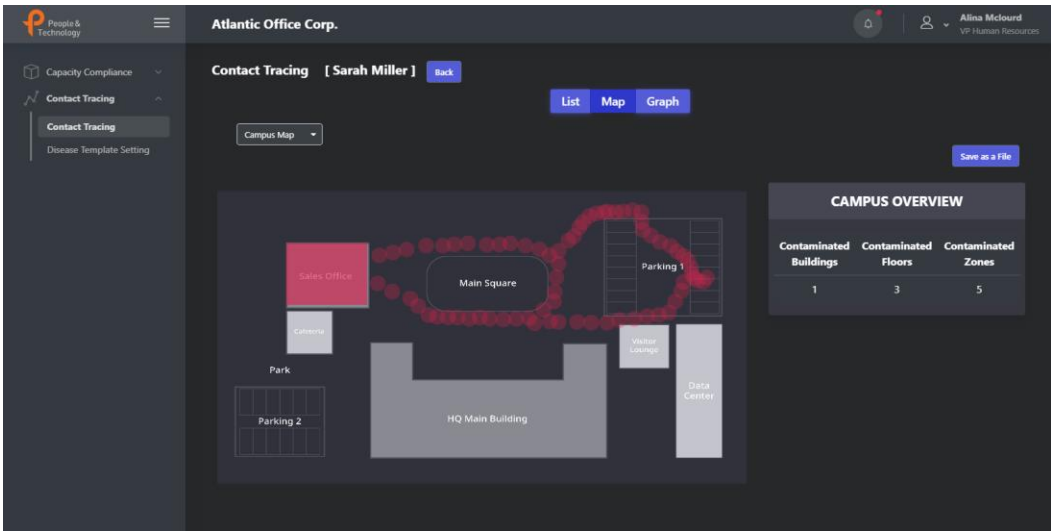
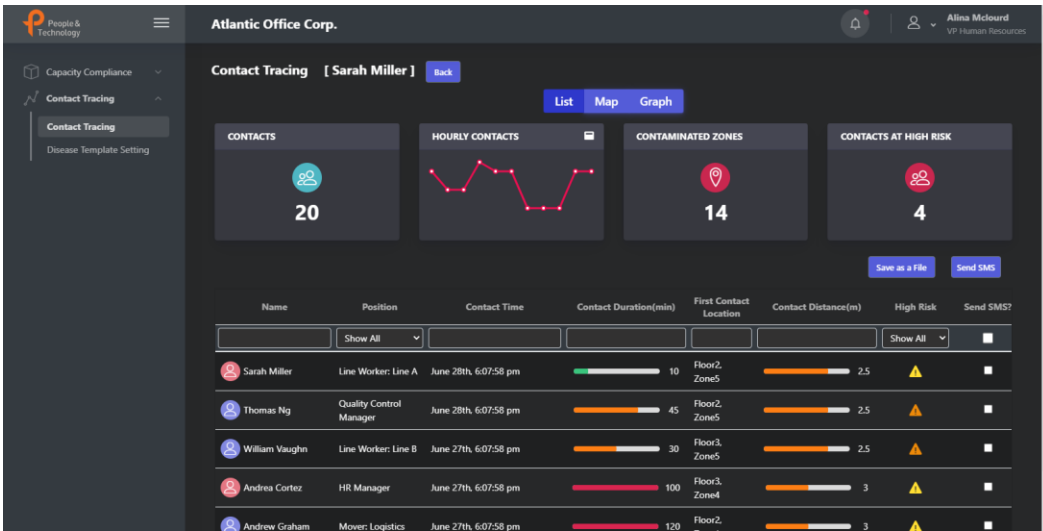
Space density management function for preventing respiratory infections

- Define the maximum number of people per zone that can maintain a safe distance for social distancing.
- Count the number of people per space and generate a notification when it exceeds a certain maximum.



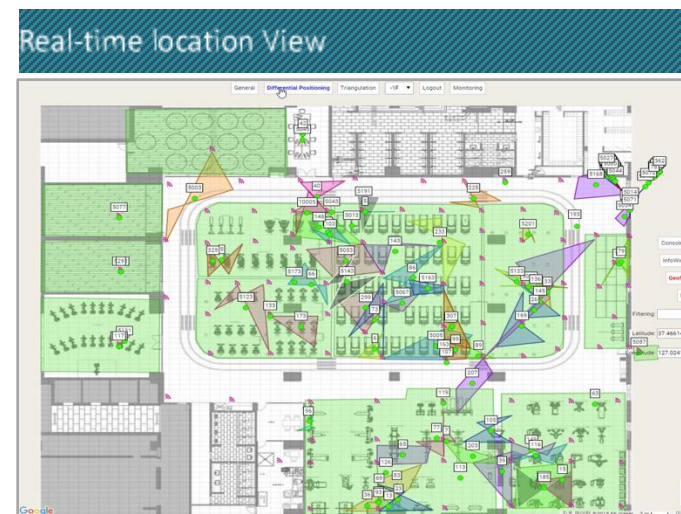
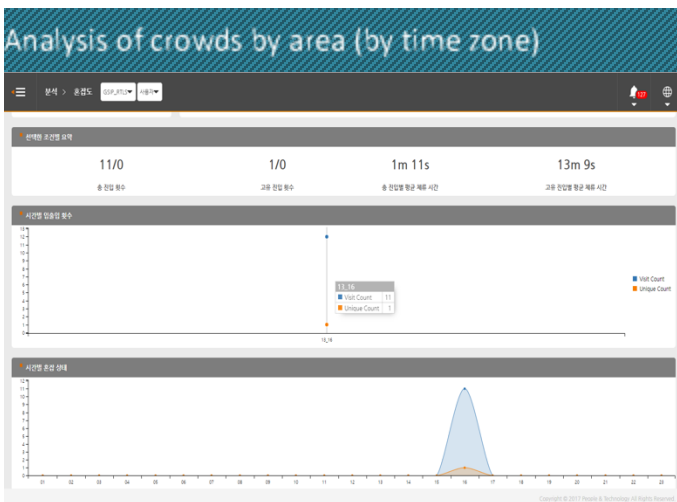
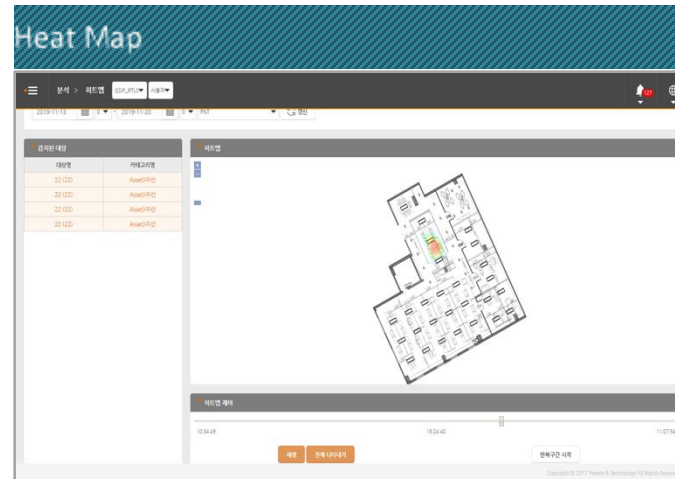
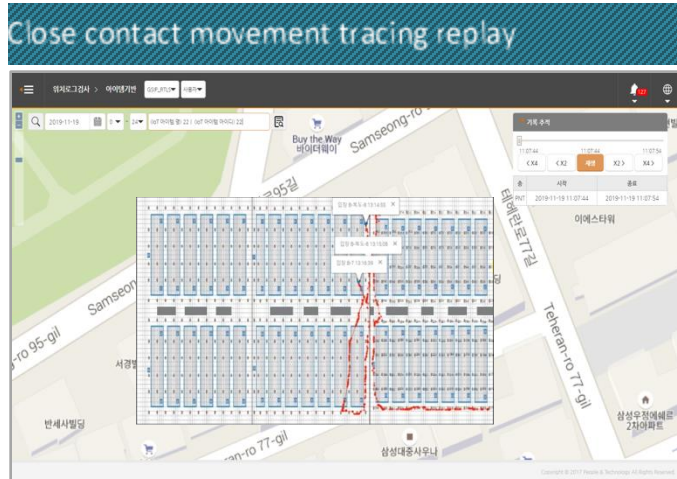
VESTIGO – Contact Tracing

Overview: List of potentially contaminated contacts, areas to be disinfected, contact tree



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Various functions and Analytics tools



- Display the real-time location distribution view of the tracking target on an indoor/outdoor integrated map
- Replay the movement history of mobile assets
- Heat map visualization for patient and staff location information
- Access history analysis by setting a virtual zone in an indoor space as a micro geofence
- Source data access for visualizing all status statistics on personnel and assets within the hospital

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THANK YOU