HOW AIRPORTS WILL ADAPT

HEALTHIER AND SAFER AIRPORTS FOR TRAVEL

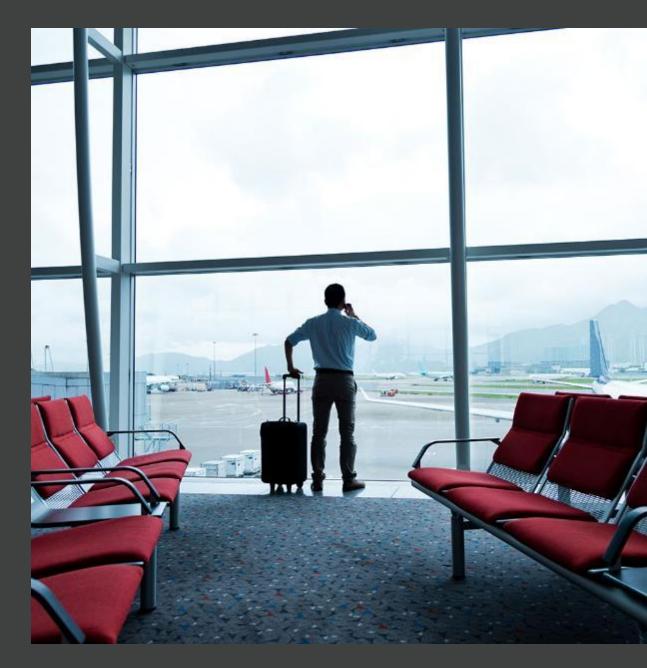
Honeywell



A NEW NORMAL OF AIR TRAVEL

Restoring Passengers, Staff and Service Providers Confidence, across the Journey

Honeywell is ready to help airports bring travelers back to the skies



HONEYWELL SOLUTIONS | BRINGING YOU BACK



Trust Through Expertise

We are trusted because we combine deep expertise with an ever-expanding knowledge ecosystem of people, industries and technology.



Committed to Results

Our relentless dedication to employees, customers and society, manifests in a drive to tackle complex problems and seeing them all the way through.



Reinvention is in our DNA

At Honeywell, we know that disruption often breeds innovation. We've done it again and again, for over 100 years, pushing the world forward each time.



Catalyst to Recovery

Our customers can't create the future if they can't endure the present. We prepare those we work with for the challenges of today and for more productivity and profitability in the long-term.

Delivering The New Normal Of Travel

WE UNDERSTAND THERE ARE CONCERNS



BUILD PASSENGER CONFIDENCE How do I rebuild trust to come back to the airport?

KEEPING OUR PASSENGERS, STAFF & SERVICE PROVIDERS SAFER

Creating a consistent safety continuum for our airport eco-system

HOW DO WE COMPLY?

Adhere to both ICAO and governmental safety and cleaning protocols

SUSTAINABLE RECOVERY

How do we more safely and smartly get through the holiday season without hindering recovery \$63-113B

Approximate revenue impact for aviation industry in 2020*

91% Decrease in Passenger Global Occupancy**

Months at least before travel demands return to some normality***

* IATA March, 2020 ** ACI/IATA, April 2020 ***Emirates, May 2020



PERSONAL PROTECTION

Usage and availability of personal protective equipment for passengers

IS EVERYTHING CLEAN?

Cleanliness of concessions, lounges, waiting areas, seats, bathrooms and other common areas

HOW MUCH IS BEING DONE?

What is the extent of cleaning and protection measures and what is changing?

PEACE OF MIND

Validation that it's safer to travel and discover new countries from curb, to gate, to inside the aircraft

OUR TAKE THREE CORE AREAS TO FOCUS ON

PROTECTING PEOPLE BETTER PPE **Protocol**

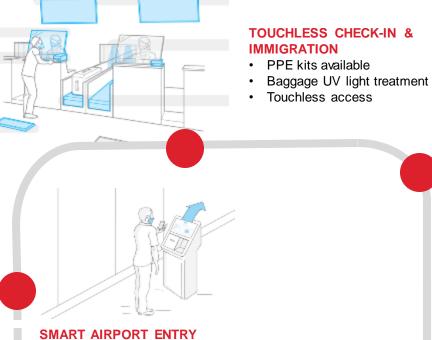




Reassure, Protect, Recover

PASSENGER JOURNEY

SAFETY CONTINUUM



- Rapid testing
- Temperature screening
- PPE compliance
- Passenger flow & occupancy management



- Occupancy, health & safety transparency with passengers
- PPE kit delivered to home prior to flight



GATE

WORRY-FREE TERMINAL EXPERIENCE

- Indoor Air Quality (filtration, temperature, humidity & ventilation)
- Enhanced Cleaning
- Automated Social Distancing & SOP

ON-TIME DEPARTURE

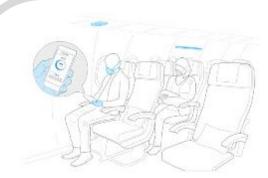
- Carry-on baggage treatment
- Temperature screening
- Improved boarding procedures



LEARN, ADAPT & RESPOND

- Response Workflows and SOP
- Monitoring, analytics & reporting
- Portfolio View & KPIs

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PEACE OF MIND IN FLIGHT

- PPE for passengers & crew
- Continual cabin air filtration & odor elimination using disinfecting technologies

DEEP CLEANING

- Autonomous solutions Cabin & cockpit
- · In-between flights

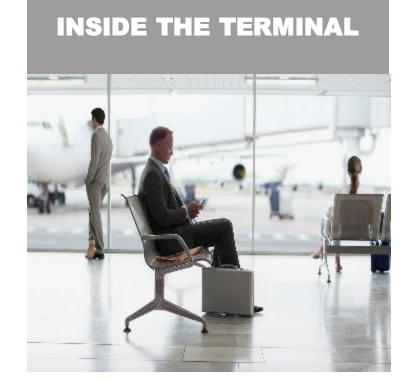
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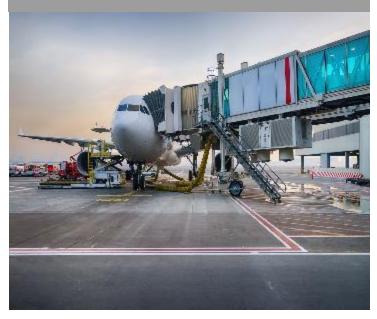
WE HELP TO COVER YOU CURB THROUGH AIRCRAFT

TERMINAL ENTRANCE





ON THE AIRFIELD AND IN THE AIRCRAFT



WE HAVE YOU COVERED CURB THROUGH AIRCRAFT

TERMINAL ENTRANCE

Healthy Terminal Dashboard

Monitor climate, cleaning and people flow

PPE & Safety Kits Availability

PPE Kits vending machine at the airport entrance. Frictionless, no touch, no collection door

Temp Screening/PPE Detection

Enable Safety Rules Compliance enforcement & minimize risk exposure



INSIDE THE TERMINAL

Temperature Screening/Social Distancing Enable enforcement of social distancing policy with AI, PAX counting & flow

Lockdown Monitoring with Alerts Quick & location specific and informed responses

Contact Tracing

Monitor movement to record contact tracing through access controls & video analytics

Touchless Access Use Facial Recognition to open gates or doors

Sensors for IAQ and Comfort Track across airport zones

Isolating Vulnerable Spaces Like interview rooms, WC with negative pressure & allow for lock-out tag-out protocol.

Hands Free Duty Free Concessions No touch transactions with superior experience

ON THE AIRFIELD AND IN THE AIRCRAFT

PPE Kit & Airside Employee Screening For on ground personnel

Airside/Terminal Performance Integration Ensure terminal IAQ & Screening readiness upon landing and on time A/D to avoid waiting times

Aircrafts

Holistic solutions in place to cleaning planes, ensure air quality in flight and provide branded PPE for crew and passengers.



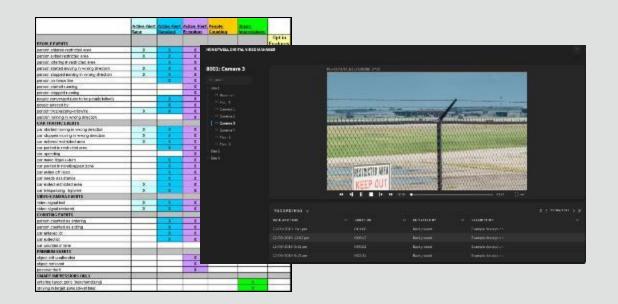


PROACTIVE AIRPORT PERIMETER PROTECTION

Incident Management Prioritization

Reduce the drain on stretched security resources by permitting such persons to focus on genuine intrusion incidents, reduce costs by remotely checking who is entering your premises unexpectedly and review incident recordings for forensics





ENHANCING TERMINAL COMPLIANCE WITH HEALTH & SAFETY REGULATIONS

Healthy Terminal Dashboard

As a Passenger, knowing the terminal has been properly ventilated, cleaned and complies to safety guidelines and regulations,

As a Terminal Operator, monitoring climate quality, ventilation, people flow, and more, available virtually anywhere through mobile and with common area digital signage.





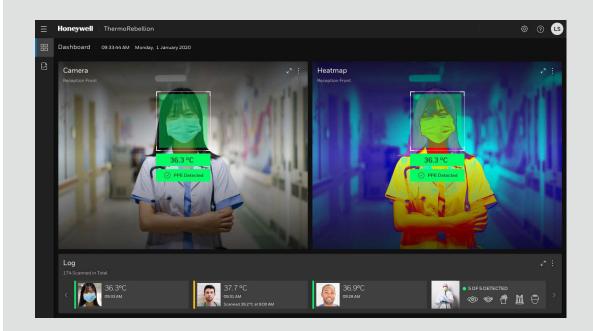
ENHANCE COMPLIANCE & REDUCE EXPOSURE RISK IN PEOPLE FLOWS

Thermal Screening

Minimize infection exposure to people by screening for symptoms (fever) at airport entrances and integrated with VMS for monitoring, recording, alarm management and SOP

Temperature Checks and PPE Detection*

Using Artificial Intelligence to conduct temperature checks and automated mask and PPE detection





2 INSIDE THE TERMINA

Holidays. Tourists are excited to travel, but they want to know their safety has been considered.

Your passengers. Your staff. Your service provide Your terminals, and your operations.

All better covered.

HEALTHIER AIRPORTS CROWD DETECTION & FLOW MANAGEMENT

Near Real Time Monitoring

Monitor in near real time if passengers within an airport zone are following social distancing guidelines using access controls or video analytics and receive alerts upon non adherence to trigger automated response like PA/VA to keep distances

Touchless Access

Reduce inter-personal exposure to staff & passengers by removing high touch readers using Face Recognition

Access Control For Contact Tracing

Access control monitoring and recording personnel movement will enable contact tracing records in case of infection.



MONITORING YOUR TERMINAL MORE COMPREHENSIVE OPERATIONS

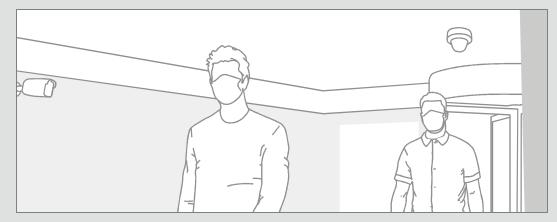
Mask & PPE Detection

People counting and flow. Alert, track and apply standard operating procedures

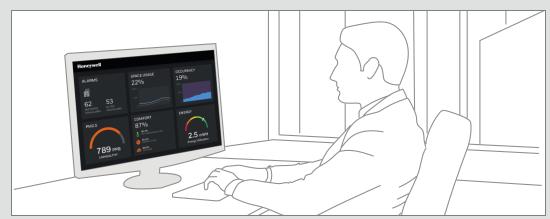
Lockdown Monitoring with Alerts

Location specific responses coupled with video analytics confirmation









TERMINAL INDOOR AIR QUALITY*

Sensors for Safety and Comfort

From curb to gate, our sensors can track humidity, occupancy volume, temperature, and more.

Ventilation

Reduce air recirculation as per EASA and other industry guidelines. Help passengers to not stay longer than 30 minutes without proper ventilation

Filtration

Reduce airborne contaminants, bacteria and fungi with MERV filters and in-duct surface disinfection with UV lights

Temperature & Humidity

Humidity range of 40-60% can decrease occupant exposure and reduce airborne transmission

Healthy Terminal Configuration & SOP

Centrally Manage your IAQ based on zone occupancy and industry guidelines*

* Results may vary. No testing has been done specifically as to protection against COVID-19 **ASHRAEE, REVHA, EASA





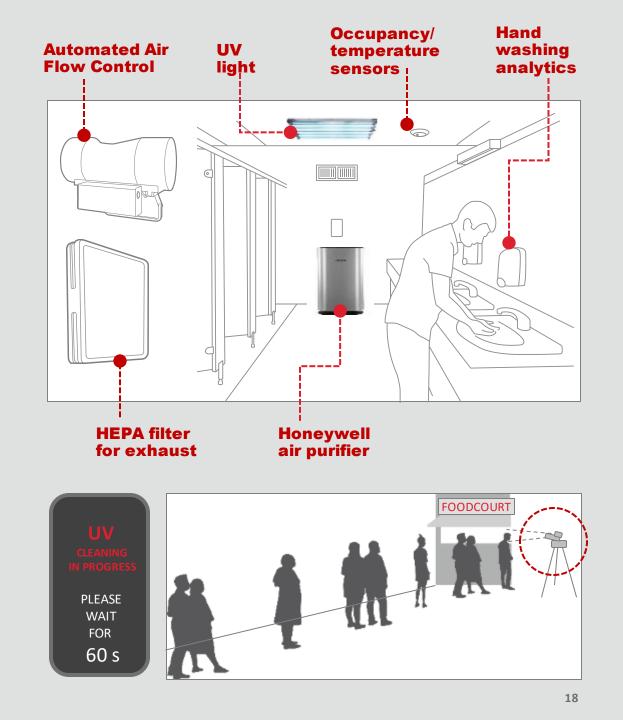
REDUCING RISKS INTERVIEW ROOMS, BATHROOMS & FOOD COURTS

Isolating Vulnerable Spaces

Isolating vulnerable spaces with negative air pressurization, filtration and sterilization. Access controls allow for lock-out tag-out protocol.

Cleaning Tracking

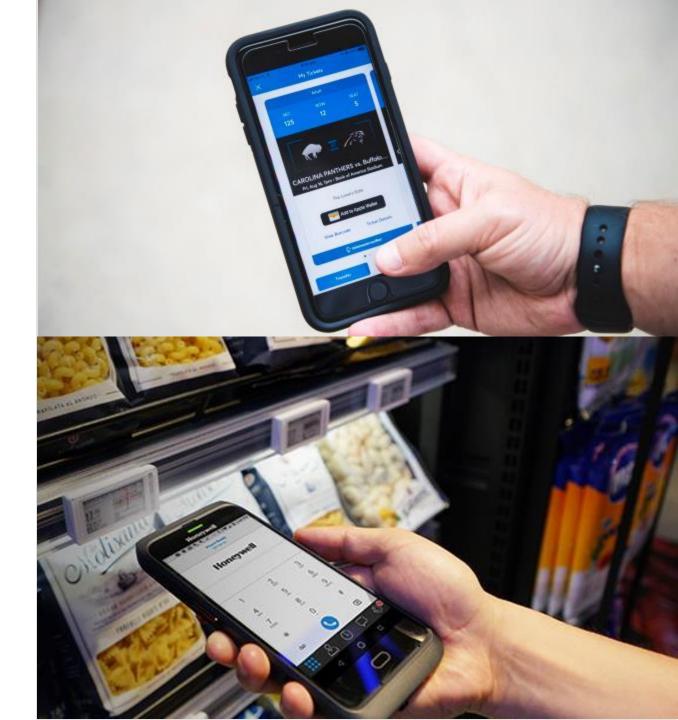
Monitoring cleaning activity across the airport throughout the day



DUTY FREE CONCESSIONS NO TOUCH EXPERIENCE

Hands Free Bar Code Scanners and Self Check-out Kiosks

Deliver a no touch transaction at point of sale and still enable superior experiences through customer scanning applications aligned to airline loyalty programs and selfcheckout kiosk options



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ON THE AIRSIDE SAFETY CONTINUUM

ALRPOR

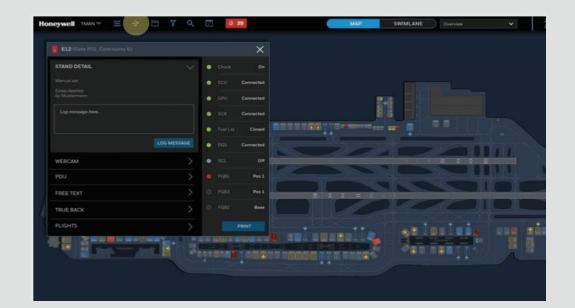
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MANAGING ON TIME A/D PASSENGER FLOWS AND TERMINAL READINESS

Effective Turnaround Operations

Better Aviation Stakeholders Alignment to Reduce Delays & Passengers Waiting Time. Ensure Terminal Readiness for actual passenger flows: screening, adapted airbridges and terminal air quality levels





"Aeroplane operators and airport operators should collaborate to ensure that passengers are not kept on board of an aircraft without proper ventilation for longer than 30 minutes." EASA new Covid19 Guidance

ADDED PEACE OF MIND FOR PASSENGERS ON THE GROUND AND IN THE AIR

PPE Protection

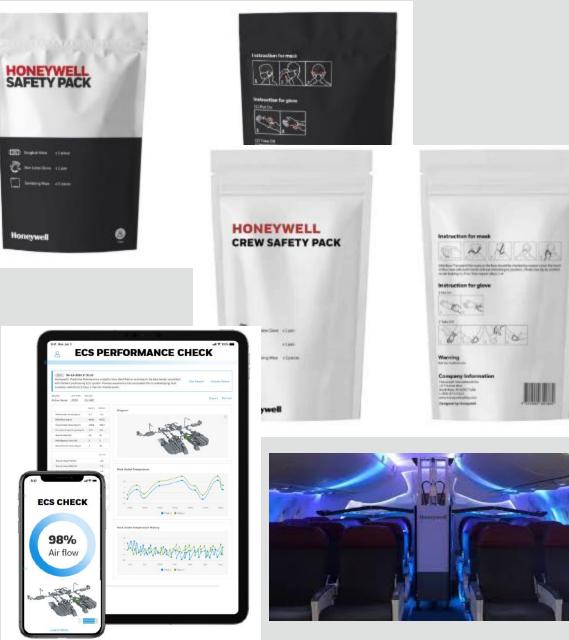
Airline Branded PPE and Safety packs delivered to passengers ahead of the trip and available on board for crew and passengers

UV Cleaner Concept

Autonomous system that can help clean an aircraft cabin in minutes. Sensors in the airplane confirm cleaning has been completed.

Environmental Control System Performance Check

ECS Performance Check allow airlines to more quickly use aircraft data and advanced analytics to monitor for air quality in the cabin



CLIENT TRUST MATTERS THE MOST



Dubai International Airport United Arab Emirates



Indira Gandhi Airport Delhi, India



Incheon International Airport South Korea



Kuala Lumpur International Airport Malaysia



Brussels International Airport Belgium



Abu Dhabi Airports Company United Arab Emirates



Pittsburgh International Airport Pennsylvania, USA



Denver International Airport Colorado, USA

We Work With 500+ Airports in the World, Our Experience Is To Your Advantage

TURNKEY INTEGRATED SOLUTIONS FOR AIRPORTS

HONEYWELL'S MAJOR PROJECT APPROACH

PROJECT DESIGN

Dedicated Solution Architect

Develops and delivers solution

Honeywell Building Services & Airport Business

3,200 person global workforce acting as single point of contact for all contracted work. Airport domain experts

Integrated Systems

- Fire, PA/VA and other life safety
- Building Management System (BMS)
- Intrusion & digital video surveillance
- Unified IT/wireless network design
- Cyber security & IoT integration
- Connect to airport systems AODB, etc.
- Energy savings & Sustainability
- Central command control station
- AGL, Turnaround & Tower Solutions

EXECUTION

Dedicated Solution Project Lead

Continued design-to-delivery POC managing updates and changed requirements; aiming for on time, on budget result

Project Management

- Provisions and sequences labor, parts, digital architecture, certifications and hand over to client
- Coordinates with on-site airport facility management and other preferred service providers
- Manages approvals with local authorities having jurisdiction to complete and sign off work to code

SERVICES

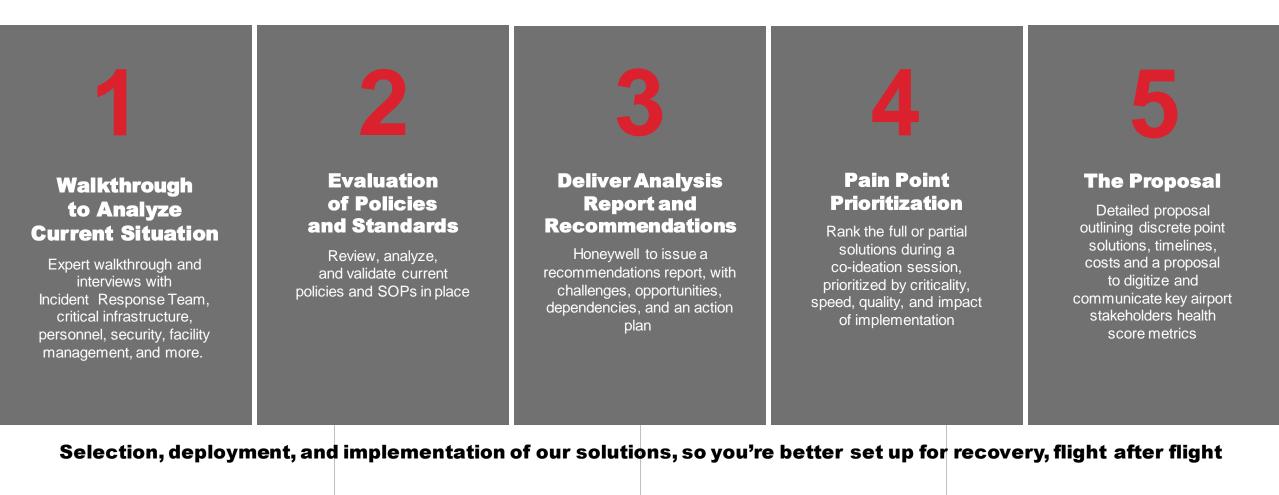
Dedicated Account Management

Responsible for lifecycle support and services; leveraging solutions and resources to help achieve maintain existing goals and deliver new requirements inside the terminal and on the airside

Managed Services

- Training and certification of staff or other contractors
- Monthly KPI & savings reports
- Incident response and predictive maintenance & analytics
- On site team to run routine operations & manage updates
- Flexible extra shift for game day
- Remote managed services 24/7
- Quarterly business review

GETTING STARTED



Let's Get Planes Back In the Skies And Passengers In Their Seats

THANK YOU



ALTERNATIVE SLIDES & BACK UP

Honeywell

HONEYWELL SOLUTIONS | BRINGING YOU BACK



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Delivering The New Normal Of Travel

TERMINAL ENTRANCE HELP REASSURE PASSENGERS

PROTECTING PEOPLE BETTER HEALTHIER TERMINAL ENHANCE OPERATIONAL SUSTAINABIL

> People Counting Flow Monitoring Temperature

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