

A stylized, futuristic illustration of an airport tarmac at night. The scene is overlaid with a complex network of glowing blue and orange lines, representing data or communication paths. Various airport elements like aircraft, ground service equipment, and terminal buildings are visible, all integrated into this digital overlay. The overall aesthetic is high-tech and modern.

Achieve Turnaround Excellence

Powered by SmartApron

Solving Turnaround Challenges

On the ground

The aircraft turnaround community are experiencing challenges that only value-driven digitalisation can help resolve. Such pain-points include:

- Insufficient resource readiness
- Missed target off-block times
- Poor On-time Performance
- Negative passenger experience
- Cascading network impact
- Lack of prediction, alerts and delay accuracy
- Manual and inaccurate processes
- Lack of KPI/SLA reporting
- Poor situational awareness and real-time decision making

Solutions crafted around Intelligent Data Fusion

In today's world, AI and IoT are pivotal tools in achieving operational excellence and driving transformation on the stand. Using these tools for data capture, combined with integration and data orchestration, prediction engines and digital twin, can empower the smart stand of the future, today.

We are bringing the turnaround community together with our industry leading solutions covering planning, day of operations and reporting.





Data Capture to Data Driven

Powered by tCapture



CameraAI

Utilising cameras (incl. VDGS, existing or new cameras) we can apply our computer vision technology to recognise **over 100+ aircraft turnaround activities**.



IoT

Track assets, vehicles and resources using cellular or Bluetooth capabilities helping ensure that they are at the right place at the right time.



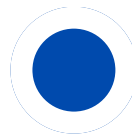
Integration

Coupled with our flexible turnaround monitoring solutions, we perform data orchestration through the creation of a **Turnaround Management Database** and connect to systems such as AODB, DCS, BRS, Rostering and a lot more.



tApp

Our highly proven turnaround app **empowers ground users** with role specific dashboards and tasks with the ability to track turnaround performance. Ground staff can also input updates to OCC, communicate and digitise flight reports



Digitalise and Automate Turnaround

Powered by tApp

Our app is **intuitive, user-defined and KPI-driven** to ensure the right information is shared with the right people at the right time. With **real-time alerts, automated forms and integration with resource allocation**, we can completely digitalise turnaround operations



Role-Based Mobile Dashboard

Real-Time Monitoring of Turnaround

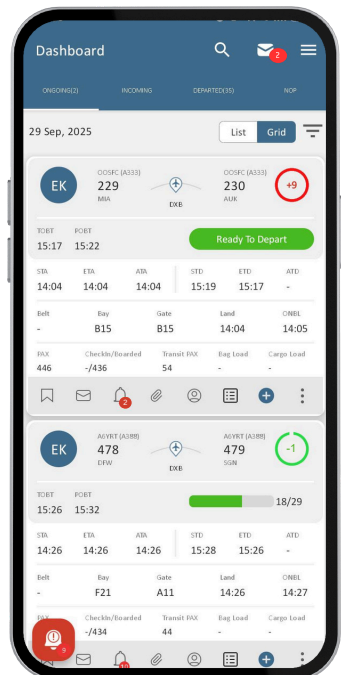
Actionable Alerts and Predictions

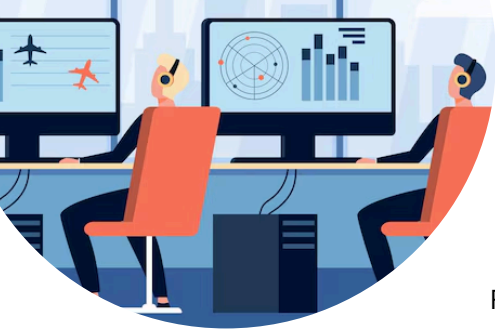
Dynamic Resource Management

tApp Features

A proven and highly effective app that promotes collaboration between all turnaround parties.

- Operations Safety Checklist
- Dynamic Chat Groups
- Delay Code Capturing
- Customised Push Notifications
- Digital Signature Flow
- Job Sheet / Turn Card Automation
- Workflow Automation
- Smart Alerts
- Billing Automation
- Baggage Offload Notifications
- Rostering and Resource Allocation
- Real-Time Allocation





Intelligent & Immersive

Powered by tOCC

From tCapture to **digital twin and tailored dashboards**, we provide turnaround intelligence to empower real-time, smarter decision making.

Fed using **data orchestration**, our dashboard is driving improved turnaround **visibility**, performance **accountability**, off-block **prediction** and delay attribution.

With **tailored dashboards** to meet the specific user, we are ensuring the **right intelligence** is seen by the **right people** at **right time**.

KPI Driven Alerts and Automated Workflows

Real-time Predictions and Trend Analysis

Holistic view of Processes, Assets and Resources

Immersive Digital Twin and Interactive Map

Network Manager to monitor cascading impact

Connection Manager to optimise transit pax.

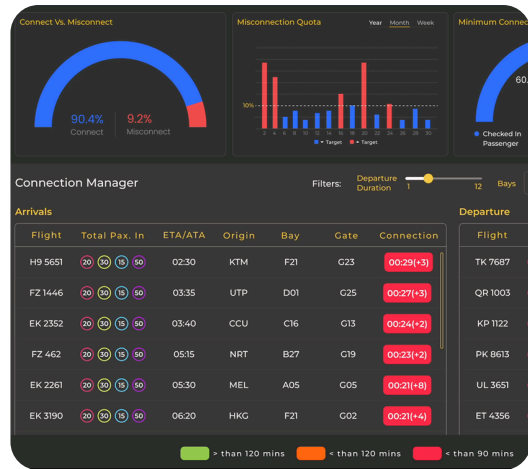
Communication and dynamic chat groups



Connection Manager

Better visualise and manage connecting passengers

- Dynamically calculate and display required connection time for passenger, baggage, and crew based on drive distance, security check points etc.
- Identify critical connecting passengers and their baggage.
- Intuitive dashboard visualising OTP impact of delays.
- Better manage connecting baggage with real-time updates.
- Empower ground handlers and airlines to make informed decisions on departures and arrivals.



Network Manager

Real-time view on fleet movement



- Monitors events on flights across the network at any given time, drill-down to specific turnaround in the network to view flight-level details.
- Assigns, views and updates delay codes.
- Bird's eye view of all tail movement, including turnarounds at outstations.
- Broadcasts / briefs may be station-specific or network-wide.
- Cascading delay impact assessment.
- Monitor station performance at network level and station alerting. Delay prediction.

Seamless Resource Management

Powered by tPlan

Ground handling resources are the cornerstone to achieving turnaround excellence. Aided with the right tools and integration, **resource management can be linked to the digital day of operations**. Our workforce management modules blend with our tApp and tOCC for more efficient resource management.



Workforce
Management

- Forecast Planning
- Capacity Planning
- Shift Planning
- Scenario Planning
- Auto-Rostering
- Qualification Management

Day of Operations

- **Auto-Allocation and Dispatch**
- Time and Attendance and ESS
- **Real-Time Turnaround Monitoring**
- tApp and tOCC
- Smart Alerts

Post-Turnaround

- Invoice Automation
- PTS Governance
- SLA/KPI Reporting
- Resource and Asset Optimiser





Data-Led Decision Making

Powered by tOptimiser

We empower our airline, airport and ground handlers through **data collection and centralisation**, enabling us to extract a wealth of intelligence to help improve turnaround operations both in real-time and historic.



Prediction

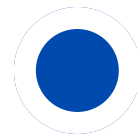
We are helping the industry accurately predict delays before they come to light. **Predicted TOBT, TSAT and ARDT** can all be monitored and adjusted in real-time with our system **identifying and alerting areas that require attention**.



Analytics

Turnaround monitoring is not just about real-time management, it is about **continuous improvements in assets, resources and processes** that make the most significant positive impacts over time. We can provide:

- Precision Time Sequence Governance
- Ground Handling SLA/KPI Reporting
- Resource Utilisation
- Equipment Utilisation
- Delay Attribution
- Safety Reporting
- Cost Performance Analytics
- Trend Analysis



Enhanced Passenger Journey

Powered by SmartBoarding

Keep passengers informed every step of the way with an **app-less and immersive touchpoint**. Our proven solution is bringing airlines and airports closer to their customer



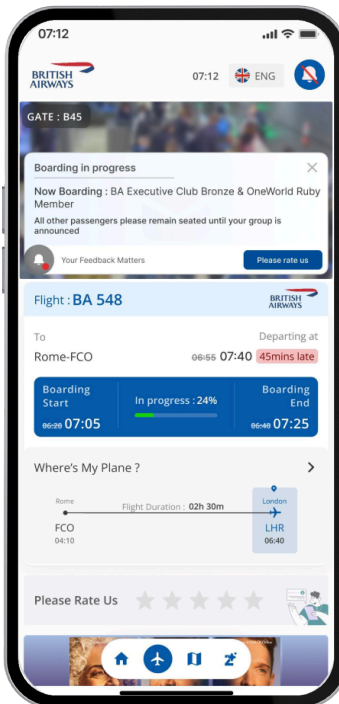
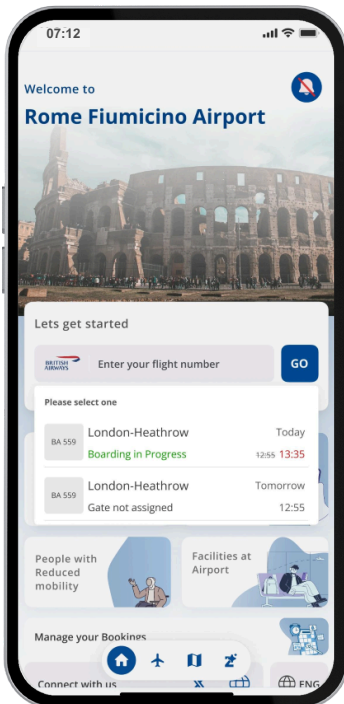
Increase non-aeronautical revenue

Improved boarding performance

CameraAI to count bags and measure boarding performance

Increased passenger satisfaction

Enhanced operational analytics



- Boarding/Flight Notifications
- Multi-lingual
- Live Boarding Video Feed or Destination based Gen AI
- Boarding Status and Progress %
- Tail Tracking
- Customised Marketing
- Passenger Feedback
- Check-in to Gate Journey
- Airport Facilities
- Complete Branding and Customisation

For illustration purposes only

ZestIoT Technologies 2025

Transforming Airport Mobility

Powered by SmartBuggy

SmartBuggy is an intelligent, tech-enabled buggy management solution designed to enhance airport passenger experiences, particularly for passengers with reduced mobility, elderly travelers, and others. It offers seamless, real-time service through strategically placed kiosks, smart tracking, and admin dashboard.

Benefits

Real-Time Tracking –
Live map of buggy
status & location

Instant Assignment –
Auto-allocate nearest
available buggy

Maintenance Flags –
Mark unserviceable
buggies

VIP Requests – Quick
booking via admin
panel

Smart Dashboards – For
usage, performance,
and planning

Passenger Comfort –
Easy access, minimal
wait time.

- Beacon-Based Tracking
- Flexible Deployment
- Passenger Kiosks
- Operator & Admin Interfaces
- Seamless Integration

- Location: Delhi International Airport (with expansion potential)
- Kiosks Installed: 26
- Active Buggies: Approx. 30
- Target Users: PRM passengers, passengers with disabilities, elderly travelers, passengers with infants, VIP passengers



Driving Transformation

Generating Value

We highly recognise that deployment of our solutions is a **digital transformation that impacts technology people and processes**. We will collaborate to mitigate risks and maximise value and benefits including the option of diving into cost modelling and performance analytics.

Visibility | OTP Improvement | Real-Time Decision Making |
Prediction | Delay Attribution | Performance Accountability |
Data Orchestration | Automation | Digital Turnaround |
Efficiency Gains | Turnaround Community | Single Version of
the Truth | Paperless Turnaround



Operational Pilot to Business Case for Expansion



Pilot Scope and Planning

Define Success Criteria



Training & Adoption

Data Capture

Setup and Readiness



Data-Driven Decision Making

Outcome and Intelligence

User Experience and Usage



Results and Lessons

Value Realisation

Business Case

Discover the value of connected turnaround operations: Assets, Places, People and Processes.

ZestIoT are **specialists in digitalising and automating aircraft turnaround**. From data capture to data fusion, from digital twin to predictive modelling we help airlines, airports and ground handlers **achieve aircraft turnaround excellence**.

Discover how we are empowering the aviation community through digital transformation to ultimately improve the passenger experience.



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