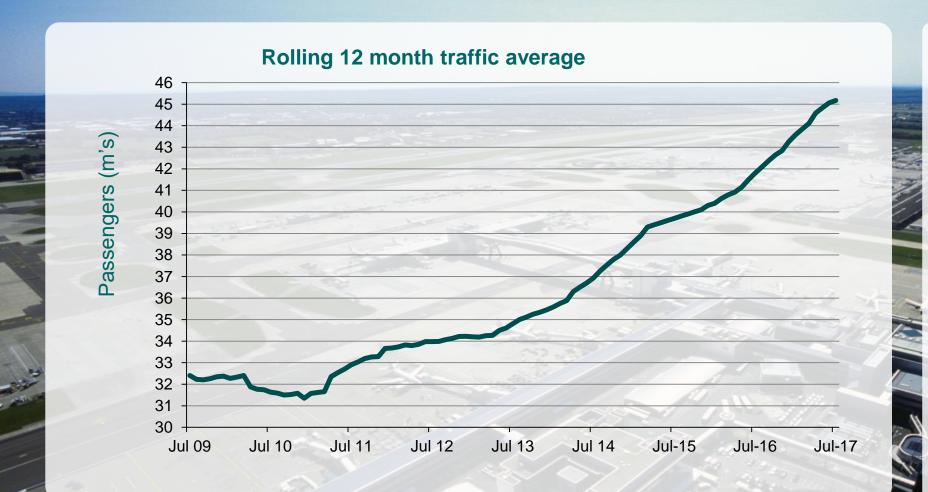


Tech Led Innovation

Abhi Chacko

Head of IT Commercial & Innovation

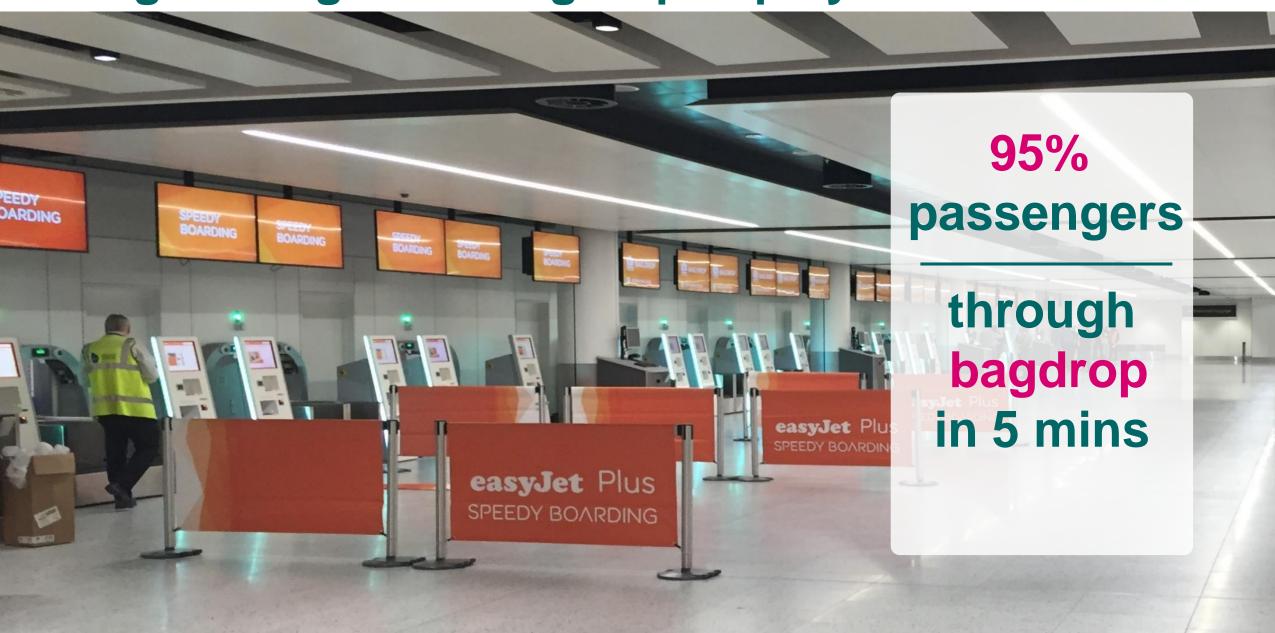
World record efficiency



Jul 28th 946 flights

1 flight a minute

Largest single site bagdrop deployment



Security - highest throughput



Tech innovations unique to Gatwick



1 Gatwick Connects



Gatwick

Your flight connec

Booking System

easyJet announces 'Worldwide by easyJet'



13 Sep 2017easyJet, Europe's leading airline, has today launched 'Worldwide by easyJet'the first global airline connections service by a European low fares airline.

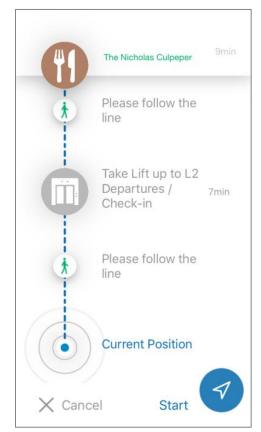


YOUR LONDON AIRPORT

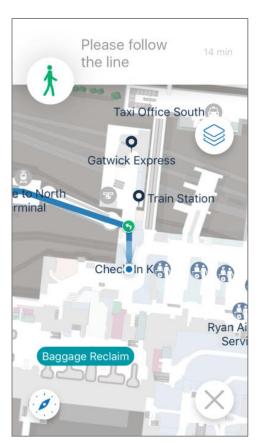
Gatwick

2 Beacon based indoor way finding







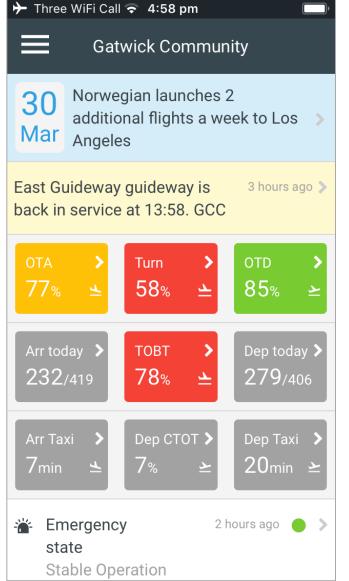








3 Airport Community app "digital for the airport campus"



- Airport Calendar
- Airport messages, status, alerts
- On time performance/turn performance tool by airline/handler
- Flight Search and Operational Timeline
- Arrival & departure passenger flow dashboard
- Bag query
- Bespoke communication channels for all / specific user groups
 - Cancelled/delayed flights
 - Staff airside security entrance status
 - Commute time to airport
 - Terrorism related notifications
- Fault reporting
- Discounts/offers for staff
- Jargon buster & contacts
- Feedback feature

AWARDS²⁰¹⁷ WINNER



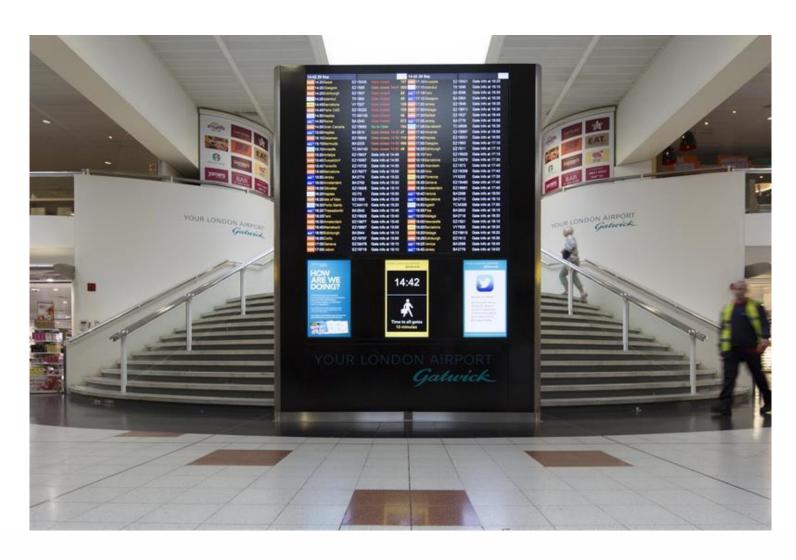


More than 200 entities at Gatwick

Airport, Airlines, ground handlers, retailers, police, tenants, hotel staff

Other airports have adopted it

4 Cloud FIDS (VisionAir)



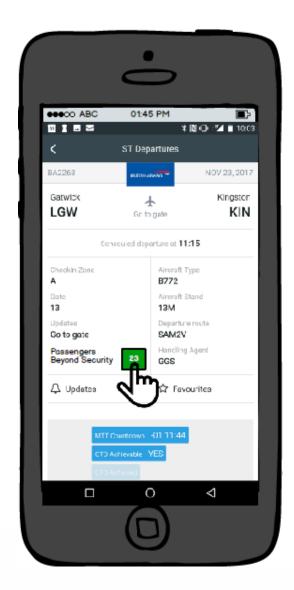
- Cloud based / low bandwidth
- FIDS, Ops and Advertising
- Granular control to screen level
- Content control delegated
- Runs natively on smart TV
- Switch off unused screens
- Video walls to smart phone

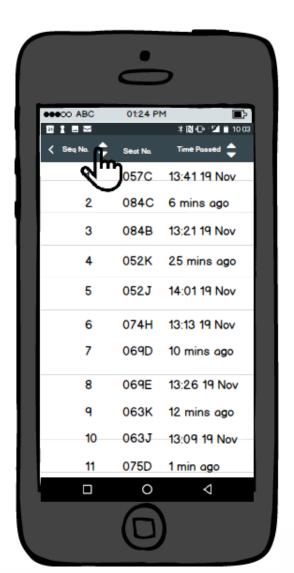


Tech Led Innovation – Pipeline

Passengers Seen @ Security







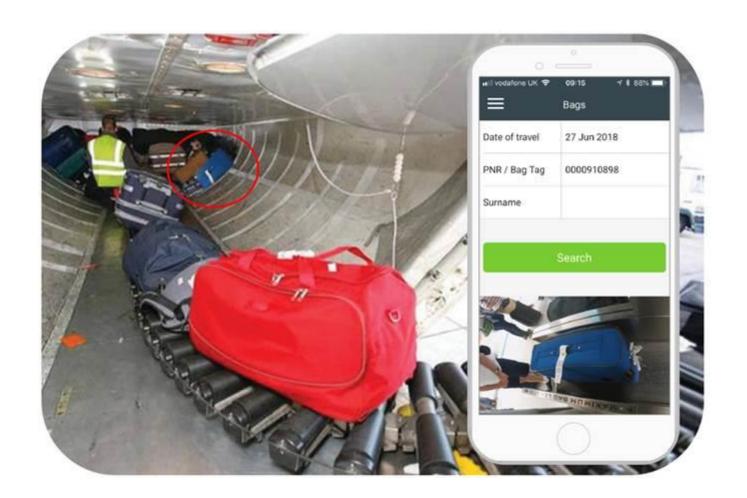


- Primarily for boarding agents
- Check whether a missing passenger has crossed the security gate
- Close the flight vs wait for the passenger



Bag Image Query

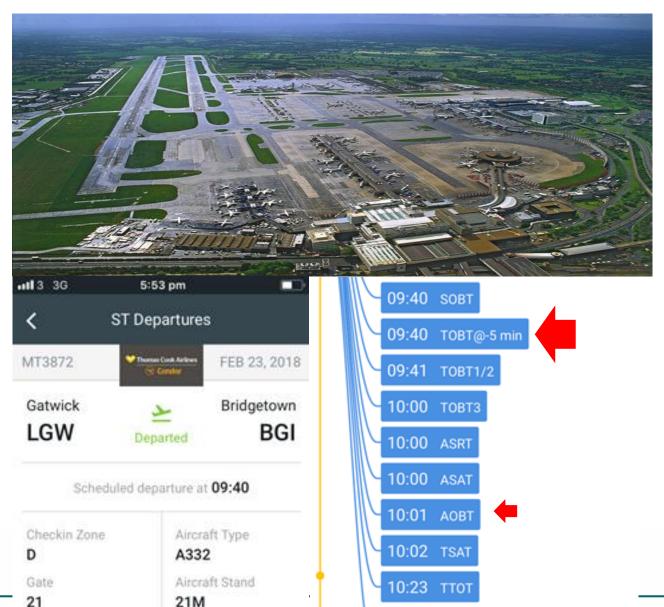




- Primarily for Ground Handler
- To fast track bag offload process
- Retrieve bag image based on tag no
- Initially applicable for Self Bag Drop areas



Machine learning for predicting departure time



Departure time prediction upon aircraft arrival:

- Using fixed rules: 50% accuracy
- Machine learning target: 75% accuracy

Benefits:

- Better prioritisation for OTD recovery
- Better departure sequencing
- Reduce stand conflicts
- Later call to gate and more pax dwell time

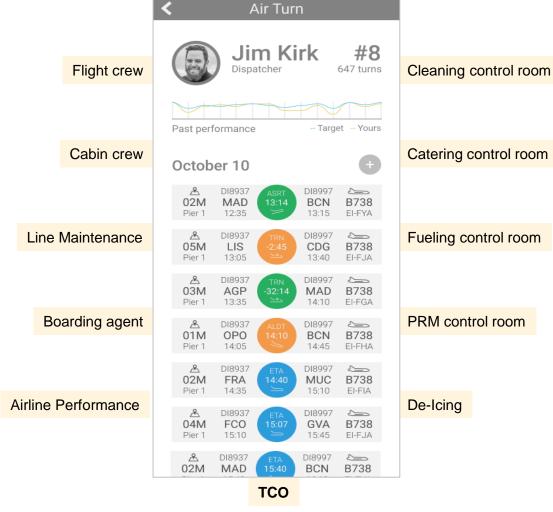


AirTurn – Integrated turn management





- Integrated turn management with multiple stakeholders
- Text based interaction with all participants in the context of the flight
- Audit trail of each flight turn around activities
- Delay predictions and alerts based on statistical and real time data
- TOBT updates by pilot and by TCO on the stand
- ACDM dashboards to handlers on a commercial basis
- View of single aircraft, all aircrafts of a specific airline, specific activity across all aircrafts
- Trial voice commands, smart watch, Google glass







Turn event detection – Computer vision, Sensors, Geotag





- Door open / close
- Fuelling start / stop
- Aircraft engine start / stop
- Geolocation of GSE



Data Sharing Platform for London region

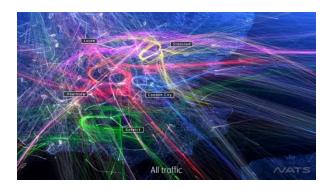
A. Network Community app

- Summary performance metrics (~IRG analytical framework)
- Diversion handling capacity
- Departure route & air corridor congestion
- Integration with Eurocontrol & NATS feeds
- Limited to ATC, Airfield, Ops teams (not the entire community)
- Trial starting Sep'18

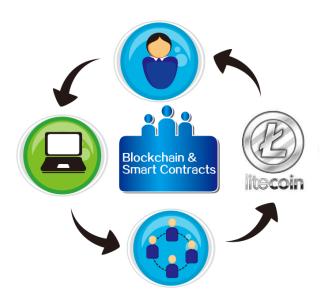
B. Airchain

- Open source, secure flight data sharing platform using blockchain technology
- Distributed backend database among London airports
- Data visible only to the consortium members
- Each entity will control who can see their data on the platform
- Joint R&D initiative among Heathrow, Gatwick, NATS and Transport System Catapult
- Subject to funding, the new system will be available for trial in Jul'19





Instant rewards for fast turners

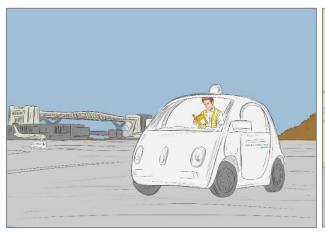


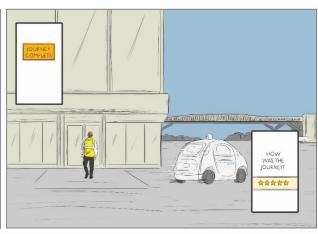
- Reward for flights which require fast turns
- LiteCoin release linked to OTD of the flight
- Automated, avoiding admin overhead
- Handlers see their LiteCoins in digital wallet
- Immediate gratification for the extra effort



Autonomous Airfield "Uber"



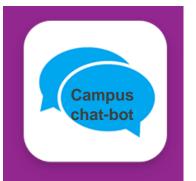






Passenger Chatbot & Voice Assistants





- Flight, Baggage, Gate info
- Flight specific notifications
- Queue information
- Content related to outlets
- Offers for passengers
- Car park availability
- Taxi booking
- Next Bus, Train times



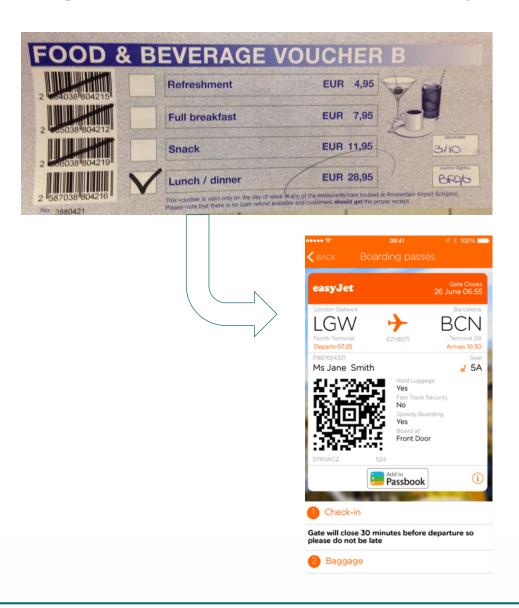
Restaurant availability

Table Availability armadillo Tex-mex grill Burgers, burritos, steaks Jamie's **Authentic Italian** Pasta, burgets and steak Japanese Street Food and sushi וַפע wagamama Authentic Japanese and Asian Classic british breakfast COMPTOIR Lebanese and middle eastern * PRET A MANGER * Freshly made sandwiches and salads THE RED LION Traditional british pub and diner wetherspoon Bar & Restaurant American style shakes & hot dogs COOL SHAKES & HOT DOGS shake-a-hula GARFUNKEL'S RESTAURANT Pizzas, pastas burgers and grills

- Busy / free indicator for restaurants
- Information delivery via screen on IDL, passenger app & airline app



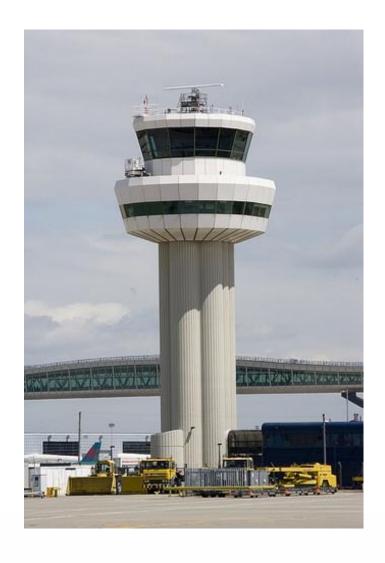
Digital vouchers for disrupted passengers



- Airlines can load meal/hotel vouchers for delayed flights onto boarding pass codes
- Boarding pass can be used as the voucher
- Passengers don't need to queue for vouchers from airline desk
- Streamlined settlement between F&B outline and the airlines
- Same facility can be used for incentives for staff



Gatwick Family podcast





Summary of previous day events

KPIs. Top performers

Planned activities for the day / week

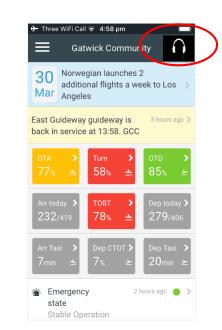
Passenger comments

Key industry news, Gatwick in news.

Exec, Staff interviews

Listen in as you drive in

Delivered through Community app





Questions?