The Connected Engineer

Connecting our engineers with technology & vision

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IATA Transportation and Logistics to the Conference

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Winning together
# Agenda

**Key themes for discussion**

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1. Introduction
Project Objectives, Delivery & Expected Benefits

Project Vision

Project vision was to increase the aircraft touch time of the line maintenance engineers, protection of on time performance (OTP), efficiency, compliance & employee engagement:

- **2015 Q4**
  - Device & Toolbox Mobile Library (TML) Trialling
  - 30 engineers trialling devices, accessories, Boeing TML and business applications

- **2016 Q1**
  - Device and Maintenance Turn Time (MXTT) Trialling
  - 30 engineers trialling devices, accessories, Boeing TML, MXTT & business applications

- **2016 Q2**
  - Device, Toolbox Mobile Library & Business Application Deployment
  - 369 device deployment, support desk installed, business applications & 4G activation

- **2016 Q3**
  - Maintenance Turn Time & WiFi Deployment, trialling of Non Boeing fleet data
  - VAA monthly update system deployed, MXTT deployment, WiFi coverage

- **2016 Q4**
  - Phase 3 trialling- Cabin Maintenance and ROW
  - CM and Rest Of World trial and feedback for deployment
## Successes

### Successes to date

**Top Level Benefits:**

- Multi skilled and diverse project team
- Business Champions and Ambassadors
- Engagement with Boeing - partnership in delivery, support and product development

**Ingredients:**

- On Time
- On Time
- On Time
- [Checkmark]
- [Cloud with birds flying]
- [Plane]
- [Beep]
- [Smiley face]

**Winning together**

*Virgin Atlantic*
Challenges and Learnings to date

Learnings:

• Multi skilled and diverse project team to gain perspective and an overview
• Small discreet trials to troubleshoot issues
• Time investment for business change training and adoption
• Monthly updates and size of data
• Management of content - iOS update management
• Management of expectation - creation of 2 way feedback mechanisms and ‘backlog’
5 Enhancements

Key Enhancements

**Toolbox Mobile Library (TML):**

- Automated Compliance Reporting *(delivered)*
- S1000D compliant SRM to increase hyperlink ability
- Non Boeing data solution- one tool, one source of truth

**Maintenance Turn Time (MXTT):**

- DAP account management to suppliers
- Linkage between TML and MXTT *(delivered)*
- Engine data/ damage charts represented in MXTT
- MXTT- multiple damage types per case *(for example lightening strikes)*
- ELB integration of MXTT application
5 Enhancements & Future Enhancements

Key Future Enhancements

Logi Pad

- Other Engineering information with controlled access. Example cabin manuals and operational information.

- This in place however issues still being worked on as to options as having information in the cloud or residing on the device. We are looking at a dual option where the information is on the device but pushed to the device if there is an update.

Links to M&E

- In development with suppliers to allow planned maintenance to be sent directly to the engineers and that work performed be visible to planning and management. There are major caveats to this, Eg Basic system and IT which are being progressed.
6 Test Case Examples

Horizontal Stabiliser Bird Strike
Test Case Examples

S41 Fuselage Lightning Strike
Thank you