Is Technology Leaving You Behind?

Wednesday, November 2 | Start Time – End Time 9:00 a.m. – 10:00 a.m.

PRESENTED BY:
Shane Ballman, Tom Perkowski, Bob Jones, Paula Williams
Shane Ballman
Founder and CEO, SynapseMX
Technology Racing Ahead

Human Intuitive Perspective of Technological Advancement in Twenty Years
A Million Times More Advanced

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Where is the Industry at Today?

For Every 4 clocks = 1 wrench

$16.7 BILLION
In wasted wages
Where is the Industry at Today? (cont.)

“Paper accounts for about 90% of all commercial airliner maintenance records globally… would circle the Earth 25 times if laid end to end.”

- John Maggiore, Boeing Digital Aviation
How Can Technology Help?

- Improving Efficiency
- Empowering Managers
- Increasing Productivity
- Cost Analysis per Aircraft
- Maintenance Accuracy
Out With the Old, In With the New

https://www.townswebarchiving.com/digitisation/microfiche-scanning/
Team Communication

Instantaneous Communication is here.
What About the Future?

Beyond M2M

IoT

Sensors
Tom Perkowsk
Co-Founder
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"Every industry has been penetrated by disruptive technology —except the aerospace industry."

—VANDAD ESPAHBODI,
co-founder of Starburst, a startup “accelerator” that is focusing on innovators in Europe, the U.S. and Asia-Pacific
#1 Have’s v. Have Not’s

Geekdom

- Software developed by geeks
- Geeks get it; non-geeks don’t
- Majority of people are not geeks
- Vendor issue—provide consistent, intuitive software?
#1 Have’s v. Have Not’s

<table>
<thead>
<tr>
<th>Category</th>
<th>Situation</th>
<th>Result</th>
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<tbody>
<tr>
<td>Big IT</td>
<td>Take the Lead</td>
<td>Good for Business ≠ Good for Aviation Department</td>
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<tr>
<td>Geek on Staff</td>
<td>Research, Implement,</td>
<td>Single point of failure</td>
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<tr>
<td></td>
<td>Maintains</td>
<td></td>
</tr>
<tr>
<td>No Geek</td>
<td>White Board or Excel</td>
<td>Maintain status quo, Vendors pushing tech</td>
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#2 The Occasional User v. Power Users

Familiarity

- **Occasional User** goes to software when they have to. May ask another to help or do the task for them.
- **Power User** every day, part of the job.
- Rich functionality power users want not intuitive to the occasional user.
- Vendor issue—how to strike a balance?
#3 Big Apps

Mobile is the new desktop

- Do we need all the desktop features in the app?
- Primary User—Power or Occasional?
Single Purpose Apps

Limited functionality ➔ Ease of use

Goal

Timely, Accurate, Relevant data

- Phil Holmer, General Dynamics Program Manager for Civil Aviation, “Common standards foster data value.”
- Structured form \(\rightarrow\) consistent data entry
- Moving data entry to the point of incidence increases data value

Sources: ATCA 2015
<table>
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<td>Aircraft</td>
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**LANDINGS**

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**OOOI**

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**Send Report**

**Save For Editing**
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Find us at Satcom Direct/SmartSky Networks - North/South 2626
Bob Jones
ATP Product Specialist
Aircraft Technical Publishers (ATP)

Visit booth #825 to see the ATP Aviation Hub™ Cloud and Mobile applications.
Technology, will it leave you behind
Is there a need for change?
Internet of Things (IoT)

Industrial Internet of Things (IIoT)

Sources: Aviation Week, control4.com, AviationPros
Cloud Services

clouds provide faster, safer, less-expensive management of all forms of maintenance data

Sources: AviationPros, smartdatacollective.com
Mobile Computing
Anywhere access
FAA 2012 Tech Document Workshop
Can Technology Address Challenges / Recommendations
Summary
KEEP CALM AND ASK QUESTIONS