



# Preliminary Analysis of MCTF FY2017 Data

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**14<sup>th</sup> MAINTENANCE COST CONFERENCE**  
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# Preliminary Analysis of FY2017 Data

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- MCTF Fleet & Costs Analysis
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# World Fleet & MRO Spend

- The FY2017 world fleet consisted of 26,000 aircraft
- The MRO market represented \$76 Bill. worldwide.
- It is expected to reach \$118 Bill. in 2027.
- With a per annum growth of 4.6%



# MCTF FY2017 Data Cycle

- Preliminary analysis includes 36 airlines & 3,714 aircraft
  - 16 more expected for the final report
- MCTF airlines by Region
  - By number of aircraft

**REGIONS AS DEFINED BY IATA:**

**Africa:** Sub-Saharan Africa

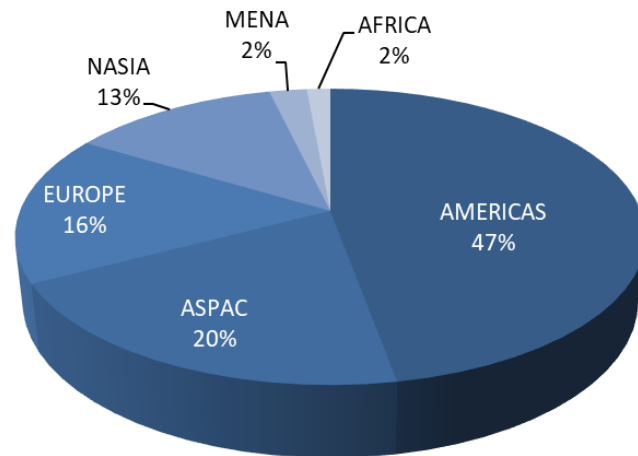
**ASPAC:** Asia Pacific

**MENA:** Middle East & North Africa

**Americas:** North & South America

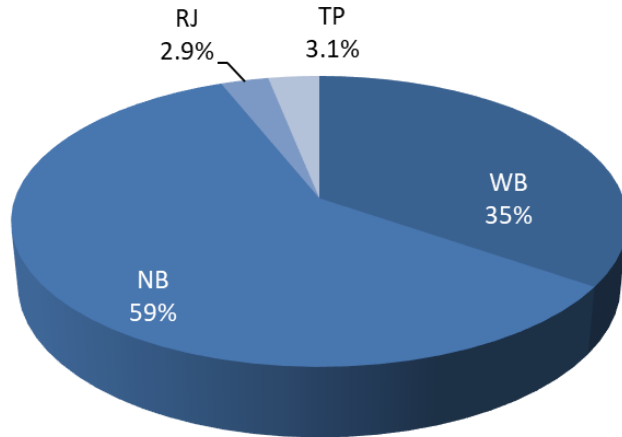
**Europe:** includes CIS

**N. Asia:** China, Hong Kong, Macao, Taiwan, Mongolia

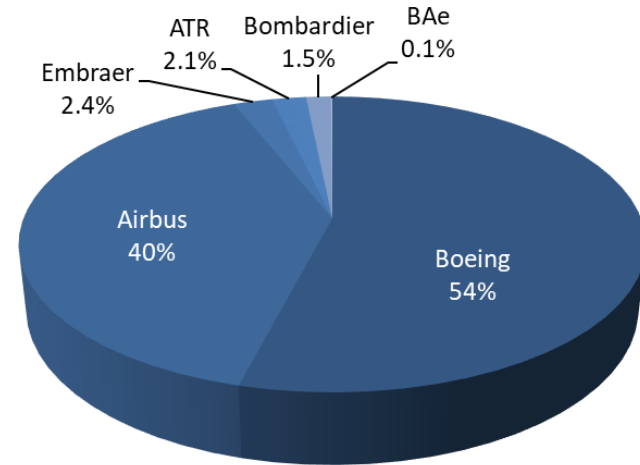


# MCTF Fleet: 3,714 Aircraft (FY2017)

- By Aircraft Category

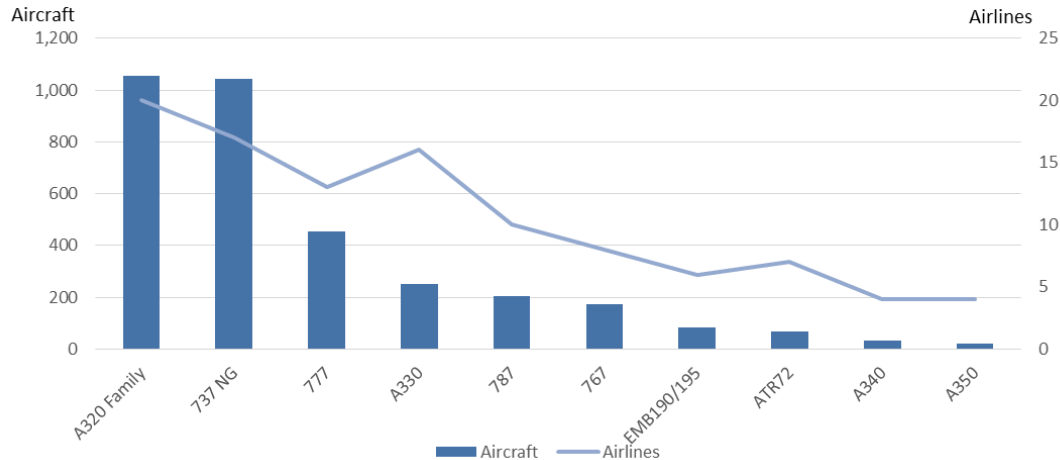


- By Manufacturer



# Top 10 AC Families\* = 90% of MCTF fleet

- All AC categories represented
- However, still a limited number of RJs and TPs

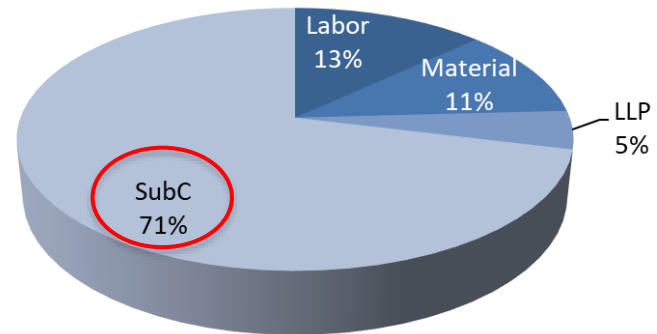
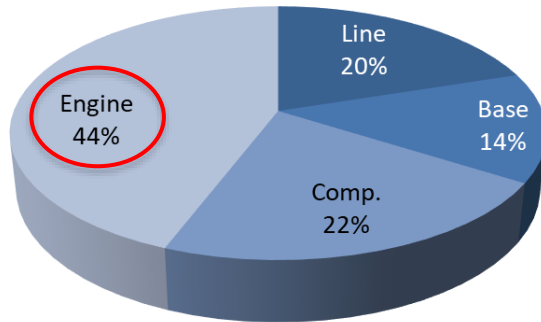


\* With 5+ AC and 3+ operators



# MCTF Spend (FY2017)

- Direct Maintenance Costs (Line/Base/Component/Engine)
- \$13.06Bill. (17% of World MRO Spend)
- By Segment
  - By Element



# Our Main KPIs



- Operational Data

- 36 airlines
- 3,714 aircraft
- 12.2 Mill. FH
- 4.9 Mill. FC
- Avg Age
- Avg FH/AC
- Avg FC/AC
- Stage length (FH/FC)
- Avg Utilization (hrs/day)
- Dispatch Reliability

- Average Unit Costs (DMC\*)

- % of world MRO spend
- Average Cost per Flight Hour
- Average Cost per Departure
- Average Cost per Aircraft
- Average Cost per Airline



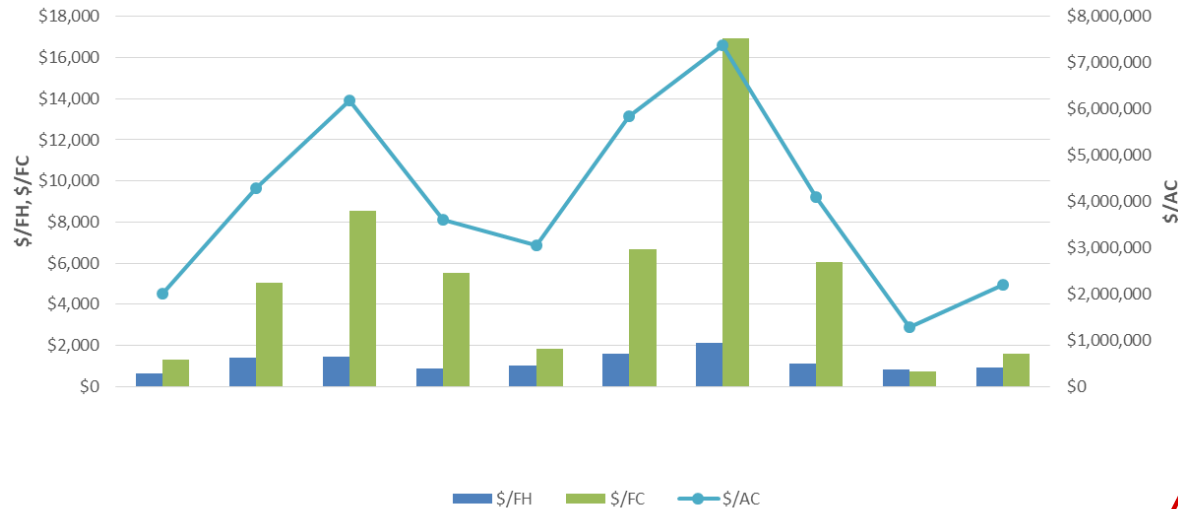
MCTF airlines get a detailed report with analyses by AC categories, families and/or AC

\* Direct cost only, excluding Overhead



# Unit Costs by Aircraft Family

- Top 10 A/C Families\*



\* with 5+ A/C and 3+ operators

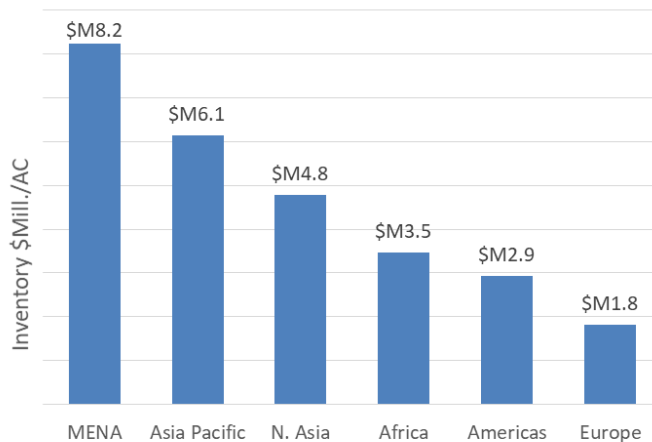
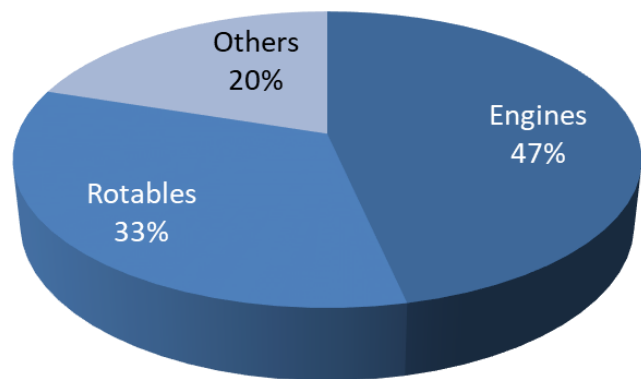


Raw data, not normalized



# Spares & Inventory

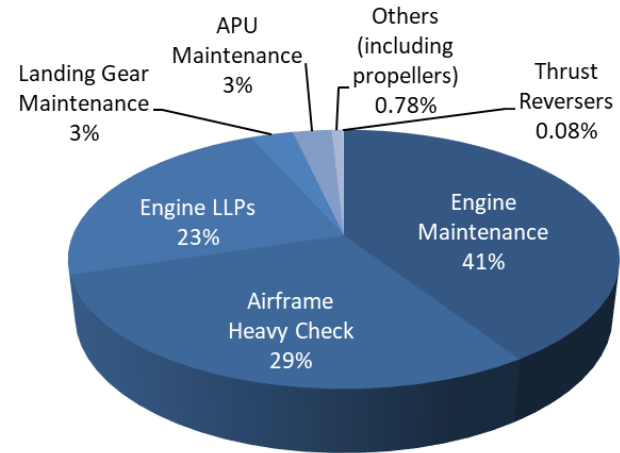
- Averages: \$3.9Mill./AC ; \$351Mill./AL



25 airlines, 2,253 aircraft

# Aircraft Leasing & Supplemental Rent\*

- 49% of total MCTF fleet is under operating lease
  - World average is 40%
- 53% of MCTF airlines pay supplemental rent
- Total MRs: \$662.5 Mill.
  - Engines = 64% of MRs (incl. LLPs)

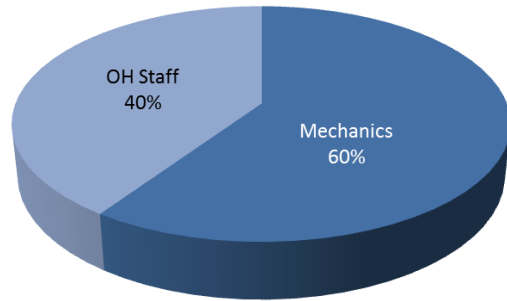


\* Maintenance Reserves

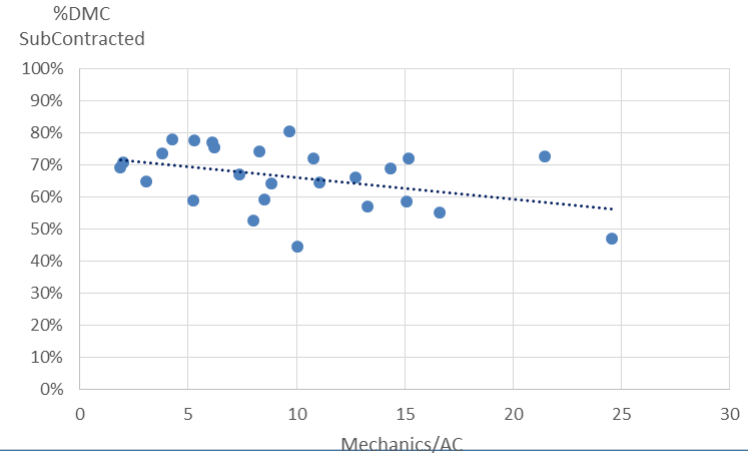
34 MCTF airlines - 1,146 aircraft under operating lease

# Personnel & Overhead

- Direct vs Indirect Labor:
  - 27,555 mechanics
  - 18,198 staff

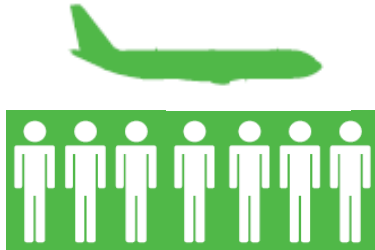


- Direct Labor vs %DMC Subcontracted (SubC)
  - 10 mech./AC vs. 75% SubC

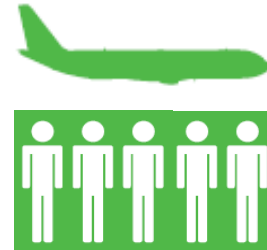


# Personnel & Overhead

- Average Number of Staff per Aircraft
  - 765 mechanics/AL
  - 506 OH Staff/AL



– 7 mechanics/AC



– 5 OH Staff/AC

# In summary (1/2)

- The 36 airlines in this preliminary analysis have reported:
  - Direct Maintenance Costs \$13.06 Bill.
  - Overhead \$2.28 Bill.
  - Spares & Inventory \$8.78 Bill.
  - Supplemental rent \$0.66 Bill.
- However, not all airlines provided Spares & Inventories \$, OH\$ and Supplemental Rent \$.

# In summary (2/2)

- Engine maintenance: 44% of DMC
- Airlines subcontract 71% of their maintenance costs
- 64% of Maintenance Reserves are for engines (incl. LLPs)
- Overhead: 15% of total Technical Division costs
- 7 mechanics/AC and 5 overhead staff/AC

Want to know more? Join MCTF!

# Maintenance Cost Dashboard

- Exclusive access to airlines that provide data
- Perform your own benchmark analyses
- Export data to create presentations and graphs

# Maintenance Cost Dashboard



Please sign in using your username and extranet password in the prompt below and NOT your email address.  
[Can't access your account?](#)



Sign In

User Name:

Password:

# Maintenance Cost Dashboard

Welcome CROS Geraldine | Favorites & Profile | Sign Out

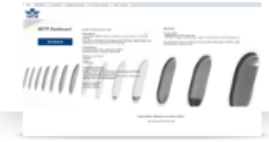
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## AccessPoint

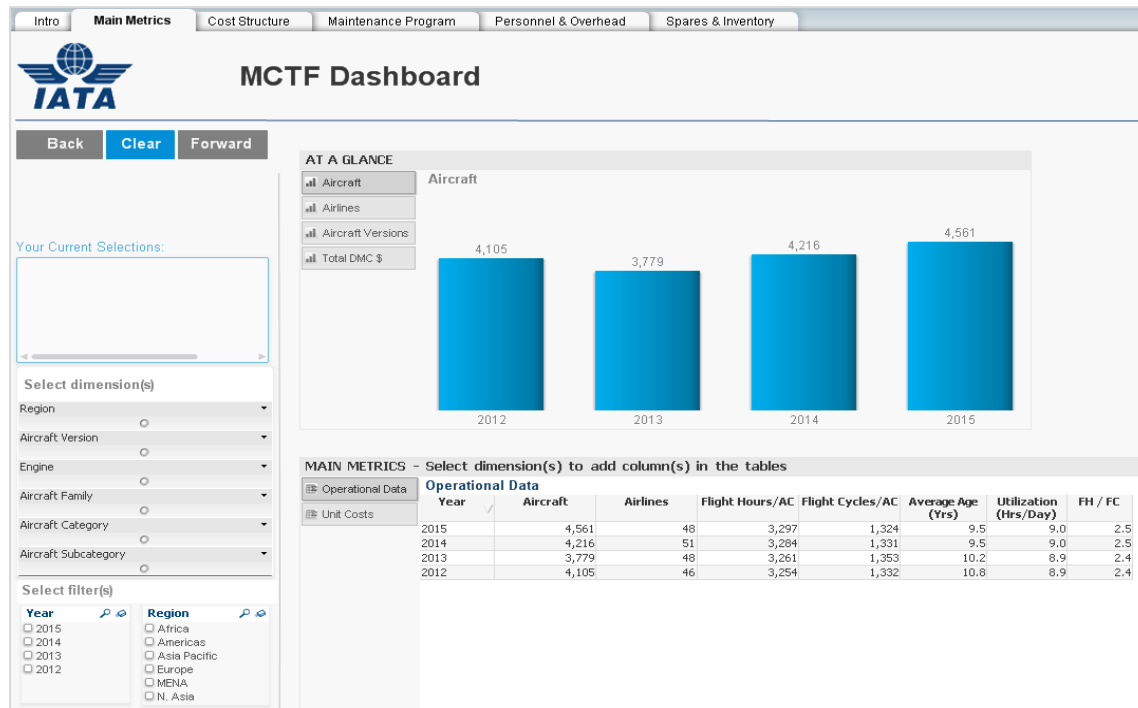
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# Maintenance Cost Dashboard



# Next Steps / Action Items

## Already participating?

- Keep up the good work!
- Help us automatize the data collection:
  - Talk to your MIS provider
  - Ask them to develop an “MCTF module”

## Not participating yet?

- Talk to fellow airlines to get their feedback
- Join MCTF and provide your data
- And get our exclusive benefits!



# Thank you! Any questions?

