

2019 Paris Air Show

June 15, 2019

CFM International Media Briefing

Today's speakers





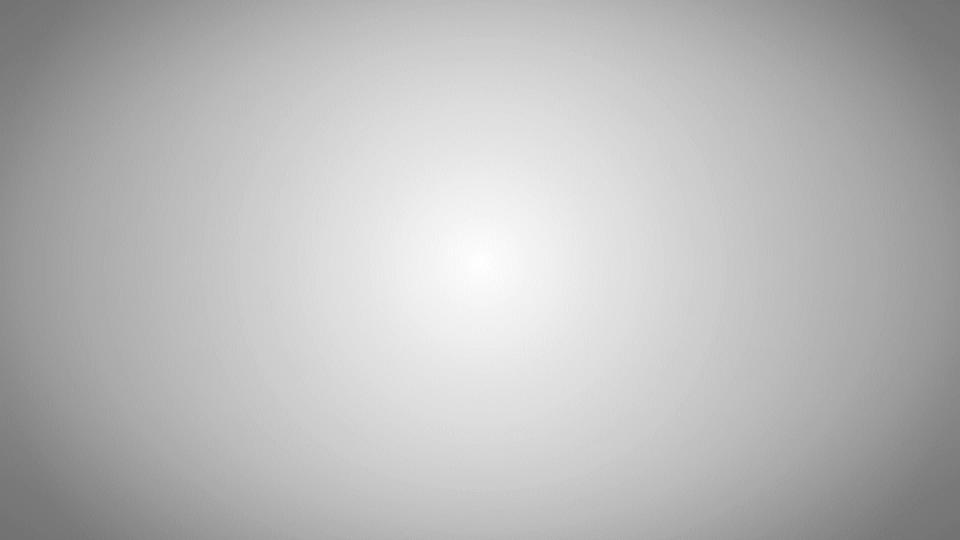




Gaël Méheust President and CEO **CFM** International



Allen Paxson **Executive Vice President CFM International**



An extraordinary achievement ...





Industry is still strong...





Consumers will still spend 1% of GDP on air travel...

\$899 billion



Revenue Passenger Kilometers forecasted to grow 5%



Average load factor is at a record high, above 80%



On watch ...

Fuel costs... -25% of op cost Trade tariffs... impact on cargo

-\$28* AIRLINE NET PROFIT PROJECTED FOR 2019

*Source: IATA June 2019 Fronomic Forecast







15,500+ engines total backlog (CFM56 & LEAP)

17.600+ total LEAP orders/commitments (w./spares)



658 total orders through May



\$8.7 billion U.S. value at list price



LEAP production on schedule at Airbus & Boeing...



MET PRODUCTION TARGET AGAIN IN 2018... ... AND FINISHED ANOTHER RECORD YEAR



2,100+ total

engines planned by year end 2019

- → 1,800+ LEAP engines
- → 380+ CFM56 engines



...uninterrupted deliveries since April 2016

LEAP fleet in service... nearly 5 million engine flight hours



LEAP-1A EIS AUGUST 2016

1.5+ million cycles

3.1+ million flight hours

44 operators

10+ hours average per day

433 aircraft in service



LEAP-1B **EIS MAY 2017**

617,000+ cycles

1.8+ million flight hours

60 operators

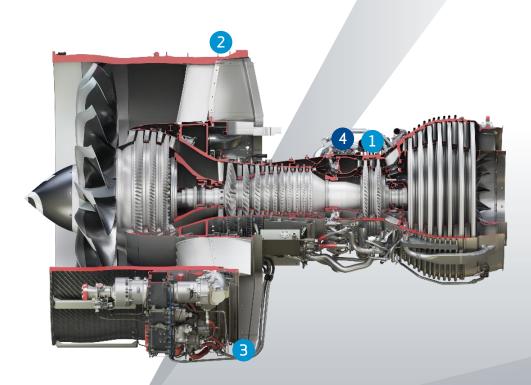
10+ hours average per day

389 aircraft in service

Update on LEAP Fleet ...



- LEAP-1A Starter Air Valve
- LEAP-1B LPT disk
- LEAP-1A HPT Stage 2 Disk
- LEAP-1A/-1B HPT Thermal Barrier **Coating Loss**
- LEAP-1A/-1B Fuel leaks
- LEAP-1B Radial Drive Shaft
- LEAP-1A / -1B Fuel Nozzle carbon build-up



Boeing 737 MAX Return to Service...



Taking a two-phased approach to supporting customers

Proactive Maintenance:



- Proper preservation
- Completing time-sensitive tasks
- Pulling forward planned maintenance

Return to Service:



- Performing de-preservation
- Validate data links
- Complete return to service check list



...now we're focused on CFM Services & Support





+38,000 CFM engines in service in 2025

60% of CFM56 w/ **no SV**; **30%** one SV only

Peak CFM56 shop visits at **3,000+**

1,000 LEAP SV projected around 2025

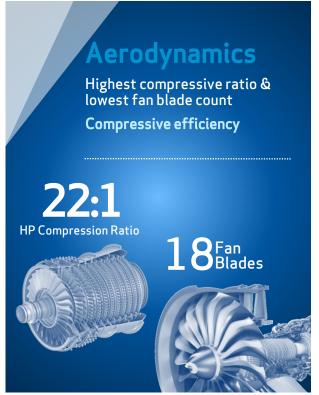
Open MRO model ... based on CFM56

18 CFM MRO sites by year-end More third-party shop being added

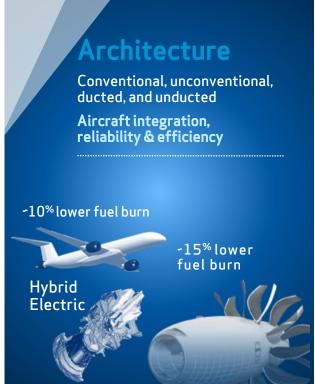


Technology roadmap ... ready for the future









The LEAP engine... delivering what we promised





ENVIRONMENTAL PERFORMANCE

BEST-IN-CLASS ASSET UTILIZATION



PRODUCTION





Lower noise & emissions



15+% better fuel efficiency



Product reliability



Predictive maintenance



World-class support



On schedule



Robust Supply Chain

In the media...





Access to photos, releases, and this presentation



https://www.cfmaeroengines.com/parisairshow-2019-downloads/





Thank you!

cfmaeroengines.com/parisairshow-2019

CFM agreement with IATA; open, competitive MRO model



Addresses **CONCERNS** expressed by airlines on CFM aftermarket policies

Primary outcome is improved **transparency** and assurance of non-discrimination

Agreement signed July 31, 2018, effective February 28, 2019

Scope includes: commercial and technical support policies etc.

Reinforces CFM's differentiation as open/competitive MRO support model



