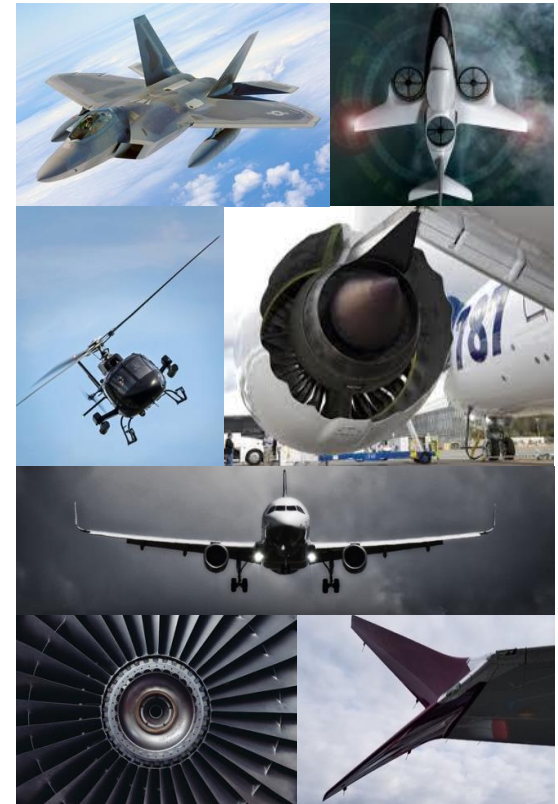




# ADVISORY AEROSPACE



## AEROSPACE MARKET OUTLOOK

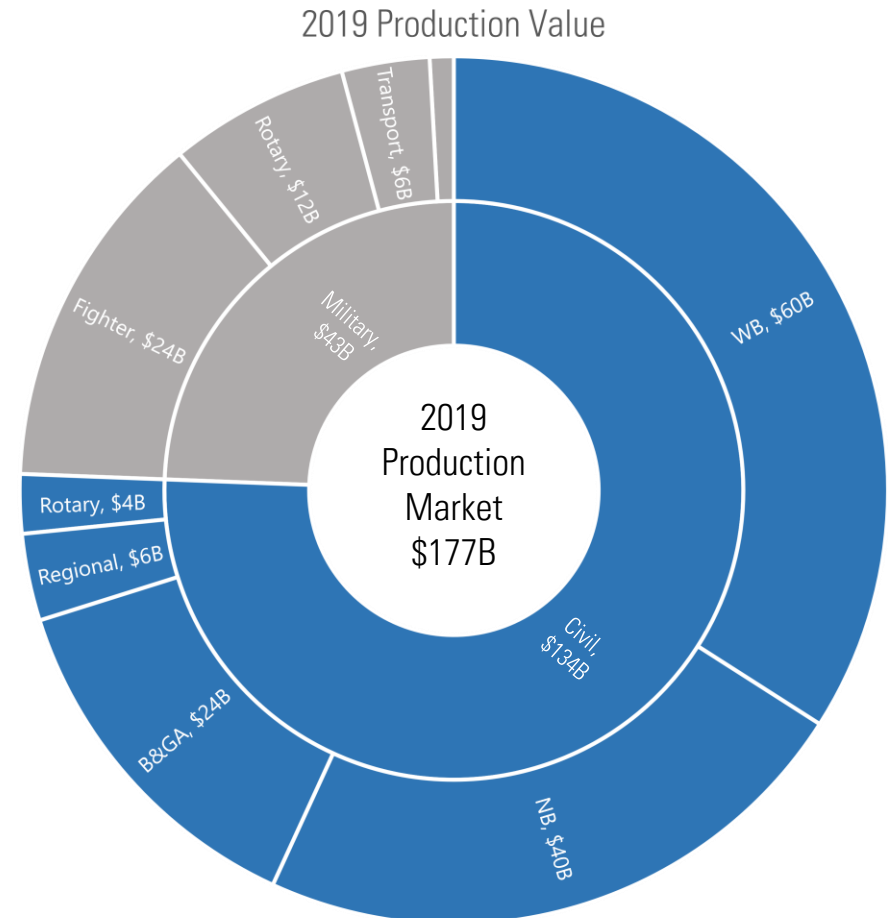
Production Rate Brief for Manufacturers  
Aug 2020

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[www.advisoryaero.com](http://www.advisoryaero.com)

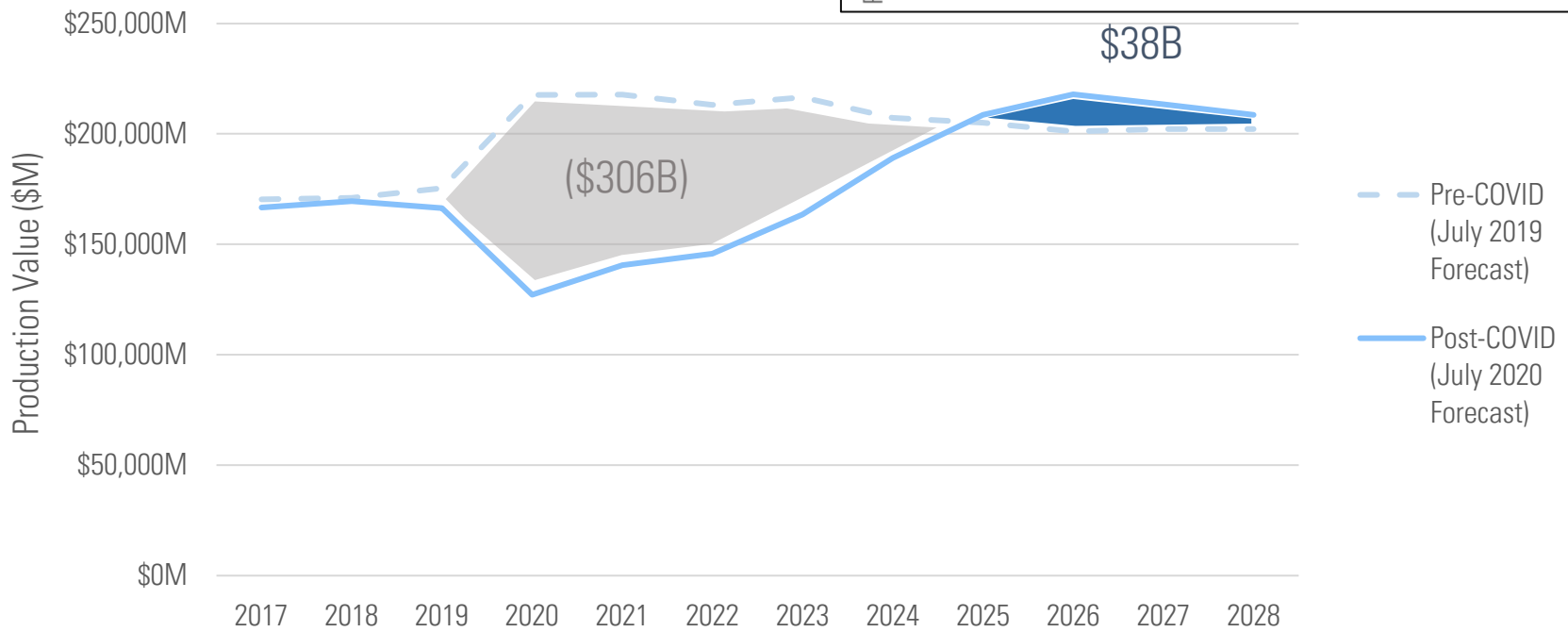
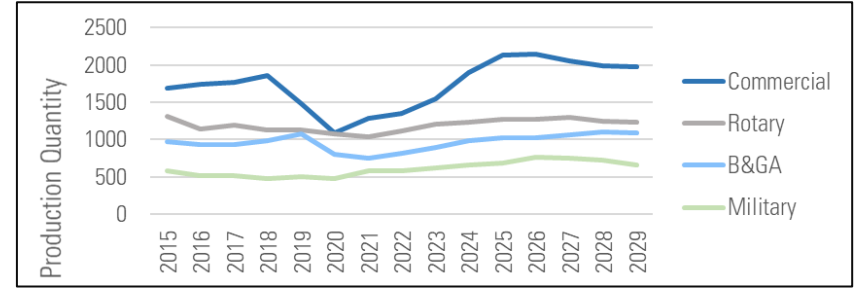
## Recap: 2019 Aircraft Production Market was Valued at \$177B

Market	Sub-Market	Total (2019 \$Billion)
<b>Civil</b>		<b>134.0</b>
	Narrow Body (NB)	40.4
	Wide Body (WB)	60.3
	Business	23.6
	Regional	5.7
	Rotary	3.9
<b>Military</b>		<b>43.2</b>
	Fighter	24.0
	Rotary	11.9
	Transport	5.8
	Trainers	1.5
<b>Total</b>		<b>177.3</b>



Wide Body and Narrow Body jet liner production was at \$100B in 2019 at list prices  
 Military aerospace production is dominated by Fighter jets, mainly JSF

# COVID-19 Impact Estimated over \$300B during 2020 - 2025



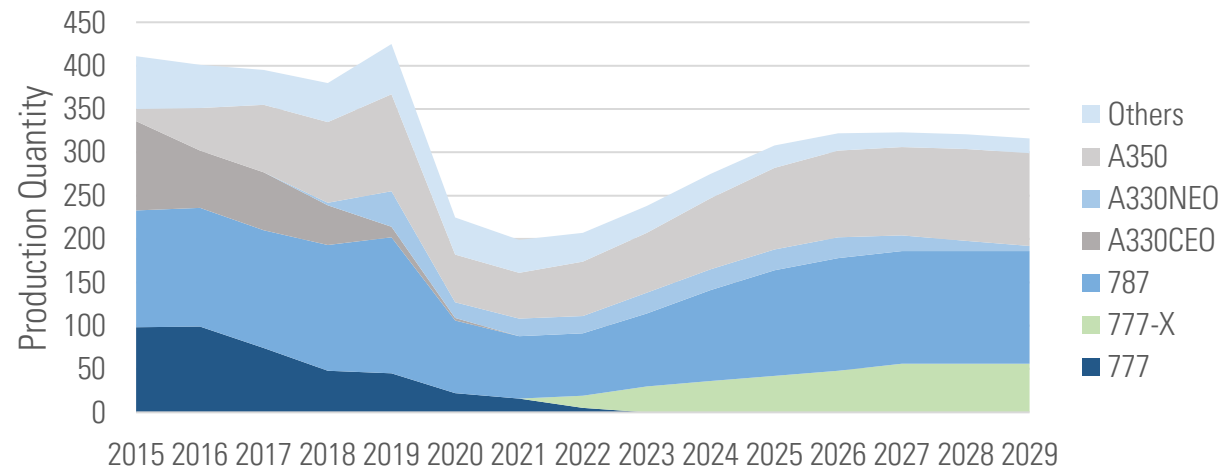
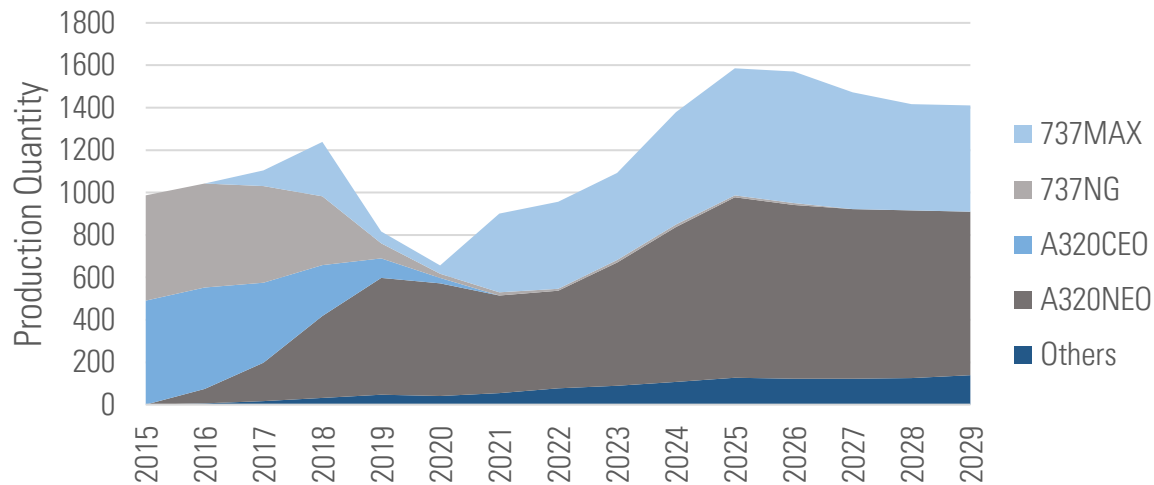
Estimates based on industry consensus of air traffic recovery by 2023

2020 Production estimated at \$125B (a 30% drop from 2019) for all aerospace segments

Commercial segment bears the brunt (\$200B) of impact in 2020-2025



## Wide Body Production Slower to Recover than Narrow Body

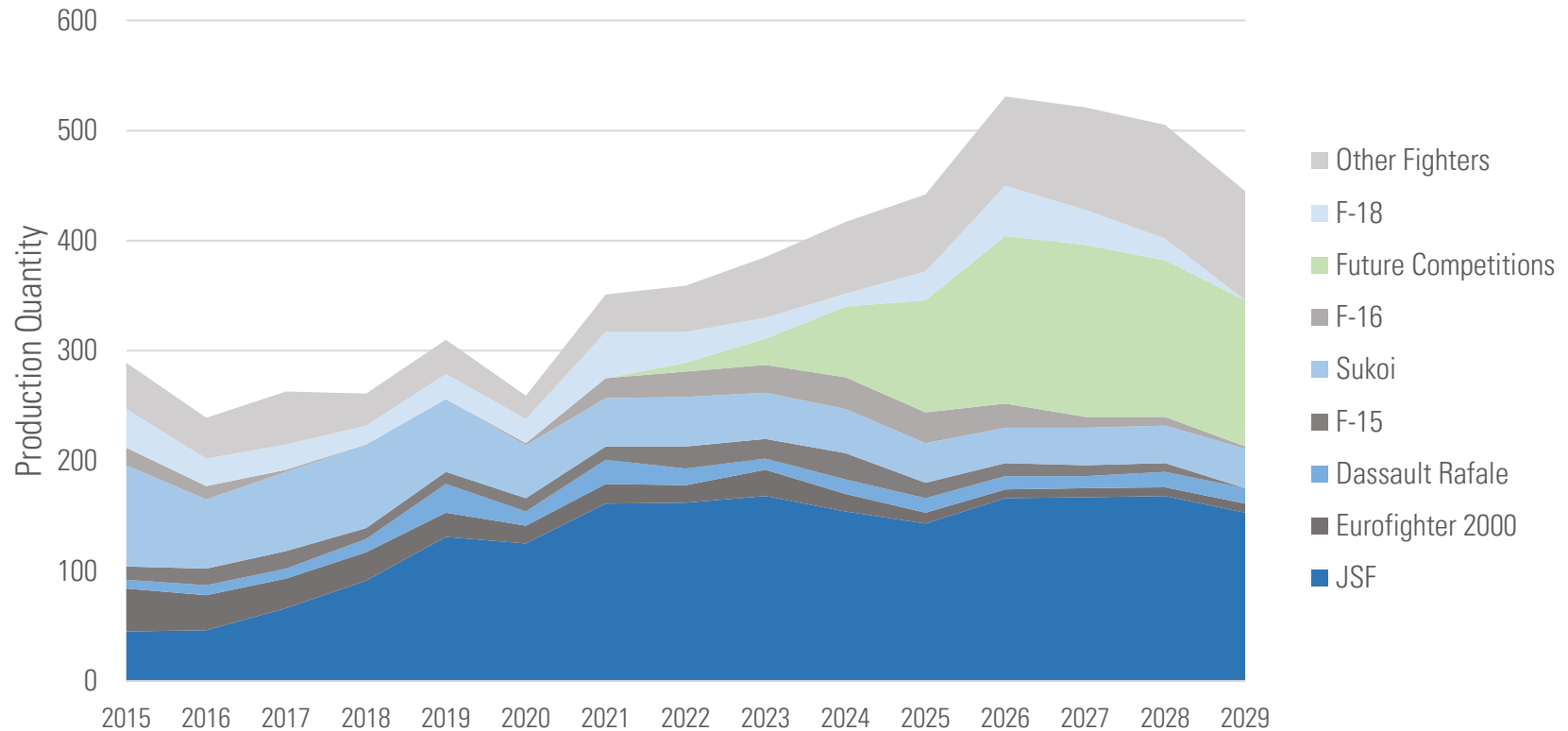


777X EIS delayed by another year

787 production rate reduction to 6 per month in 2021

737Max rate at 31 per month by early 2022

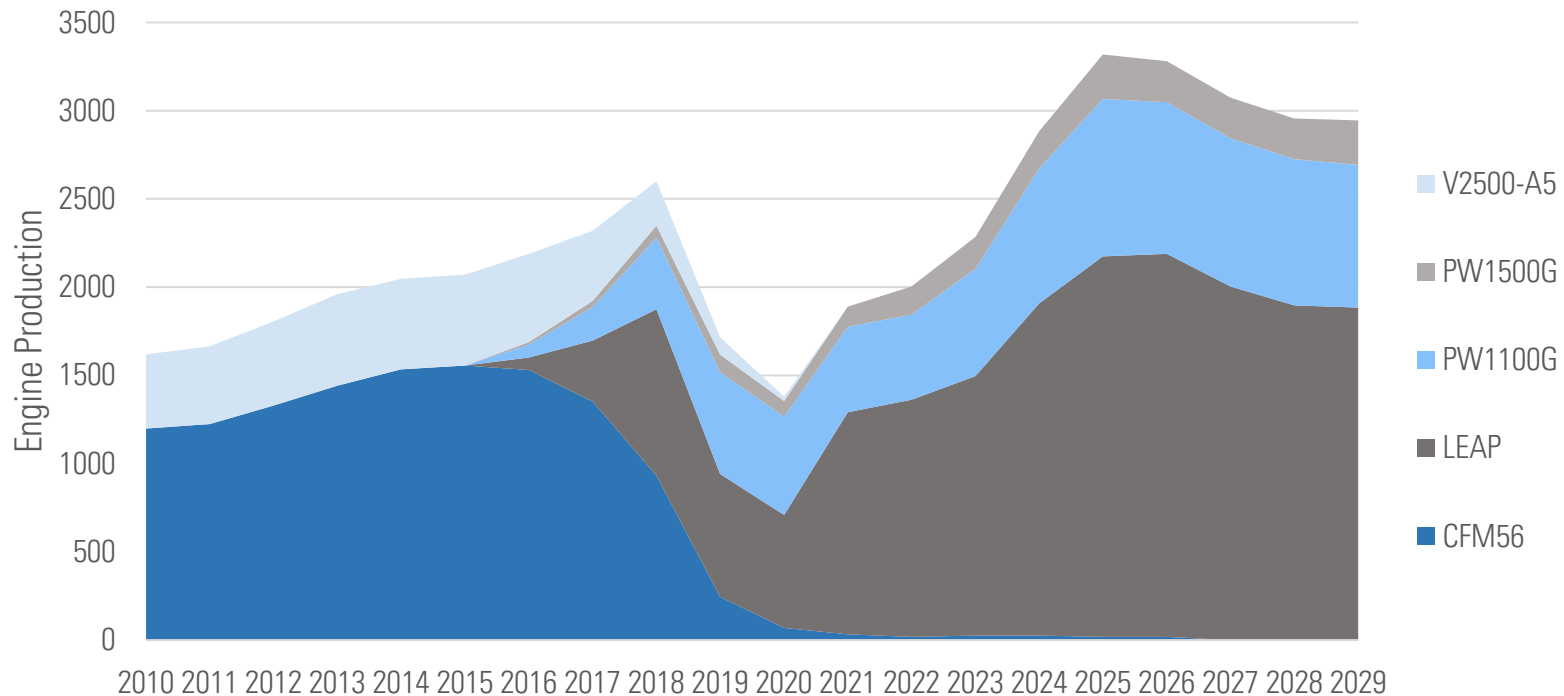
## Fighter production has a large wild card (Future Competitions)



About 1/3<sup>rd</sup> of future demand will be driven by intense international competitions (India and Canada among the main countries)

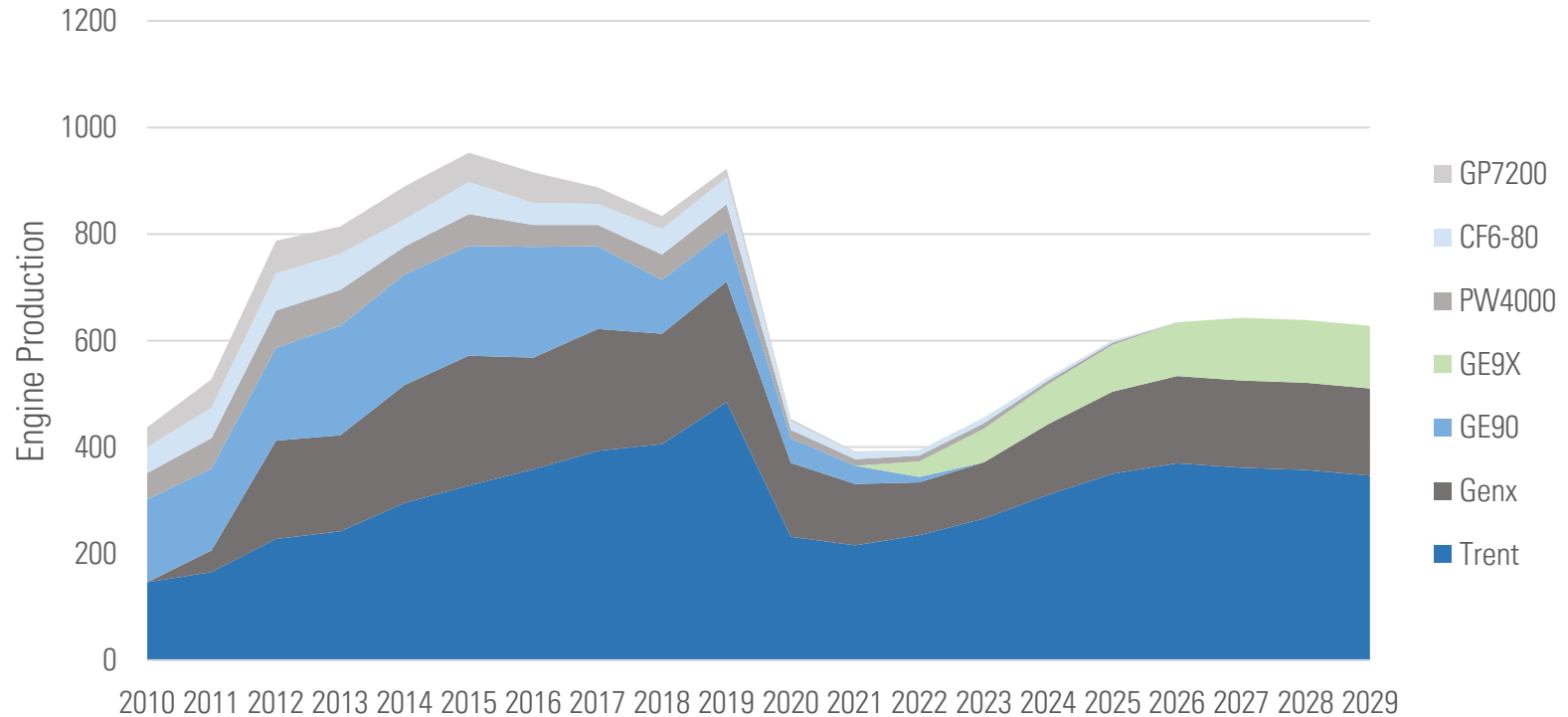
Future international sales will likely be divvied up between JSF, F-18, Rafale and Eurofighter

## NB Jet Engine Production Rates will Settle to 2:1 GE vs. Pratt



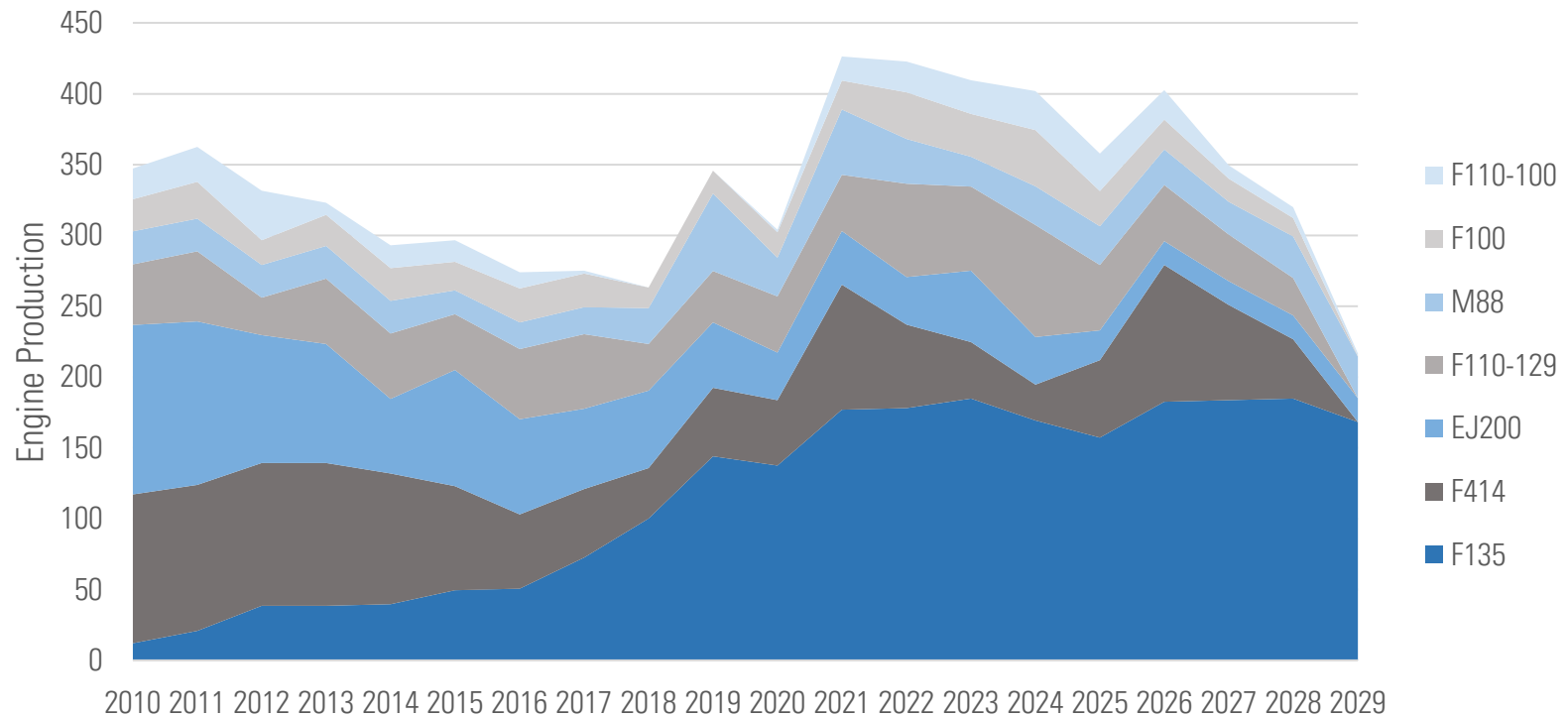
LEAP will continue to dominate – the market share at about 65% is largely maintained  
 Pratt's GTF will grow with A320NEO & A220 while the smaller thrust PW1700G /  
 PW1900G growth is stunted by E2 Jet's inability to sell in the North American market

## Negligible Pratt Contribution in WB Production



Trent Family dominates despite several teething issues with various models  
 PW4000 and GP7200 will finally be out of production  
 GE will enjoy a healthy market share with GEnX and GE9X

## Fighter Jet Engine Production Dominated by F135 and F414



Yet to be decided international competitions will have impact on mid/late 2020's engine production growth (not included here)



Thank you.

**ADVISORY  
AEROSPACE**

14525 Highway 7, Suite 345  
Minnetonka, MN 55345 USA  
734-249-0961  
[Amy.Barr@AdvisoryAero.Com](mailto:Amy.Barr@AdvisoryAero.Com)  
[www.advisoryaero.com](http://www.advisoryaero.com)

