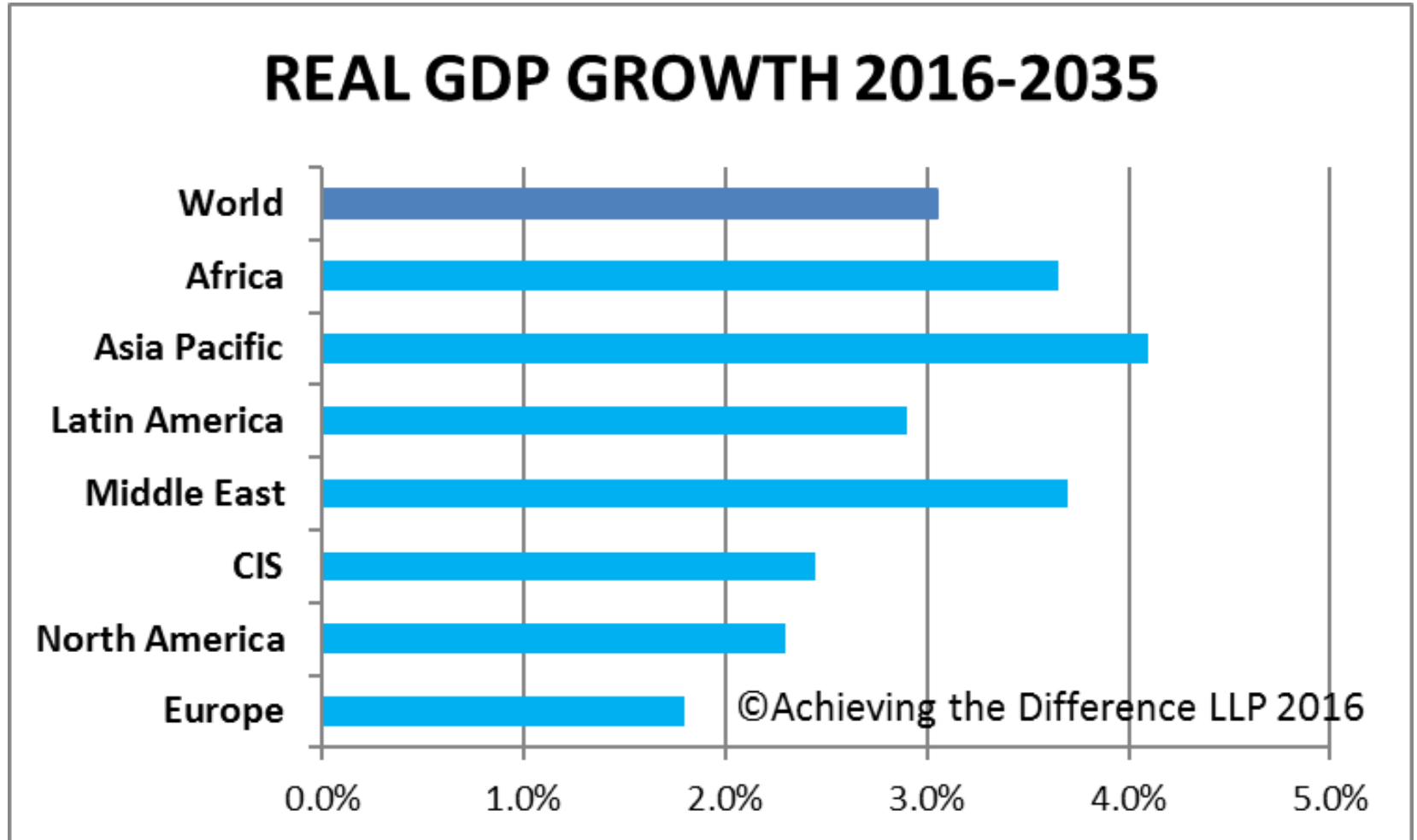


# **Aerospace Outlook OR**

**just when is  
the next new  
programme?**

# GDP growth drives traffic growth

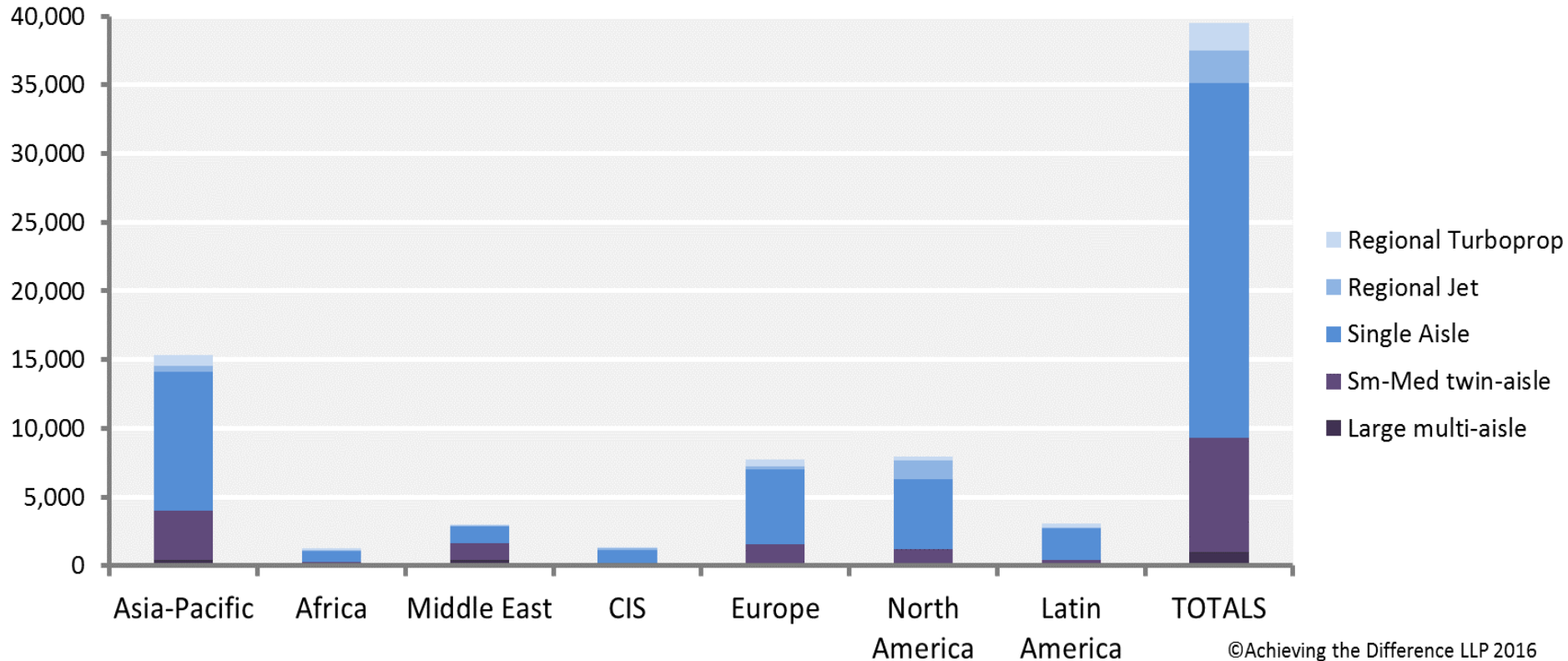


**Sources:**

- Boeing Current Market Outlook 2016-2035
- Airbus Global Market Forecast 2016/2035

# Asia-Pacific will have greatest demand

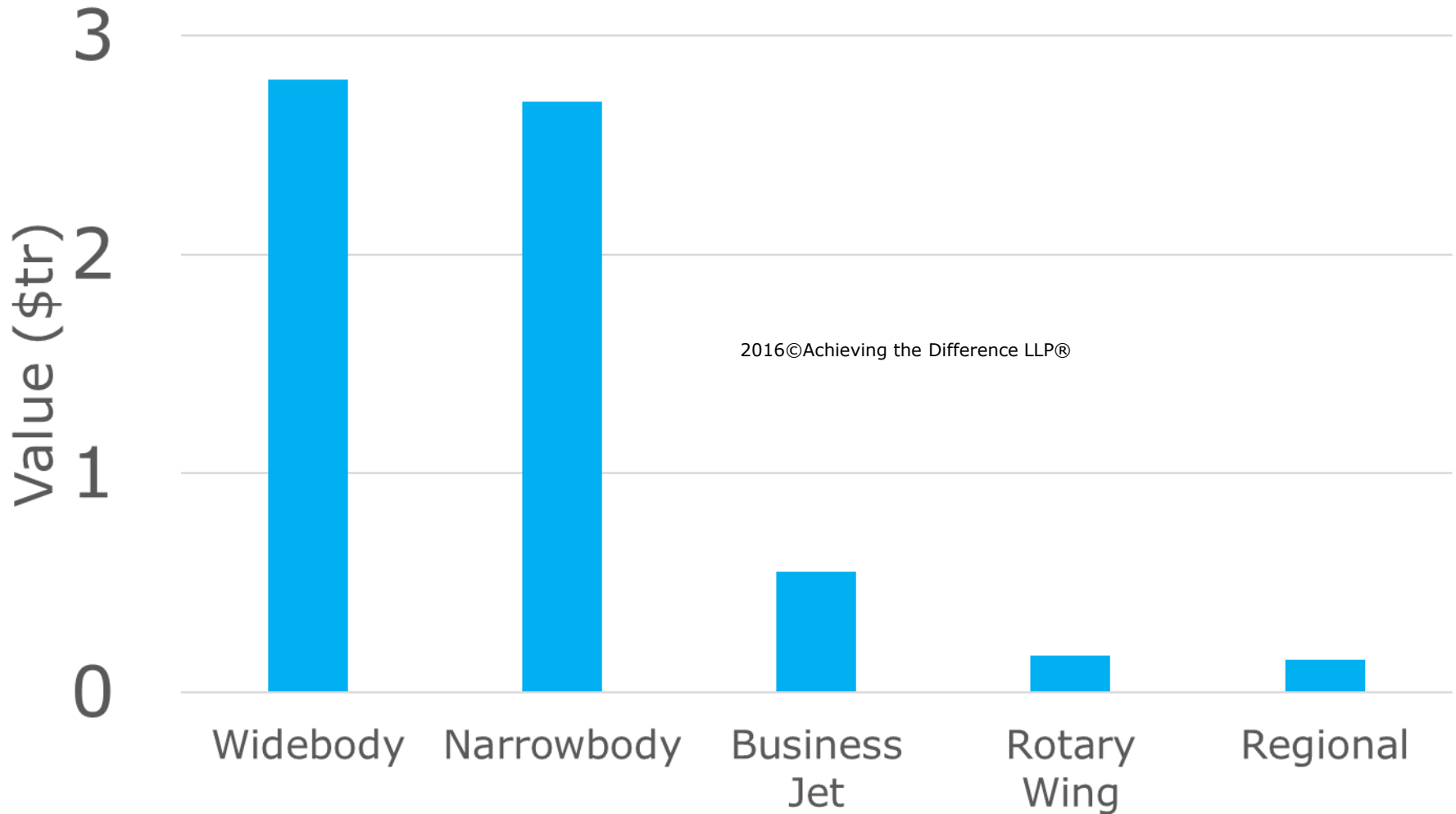
DELIVERIES BY REGION 2016-2035 (UNITS)



**Sources:**

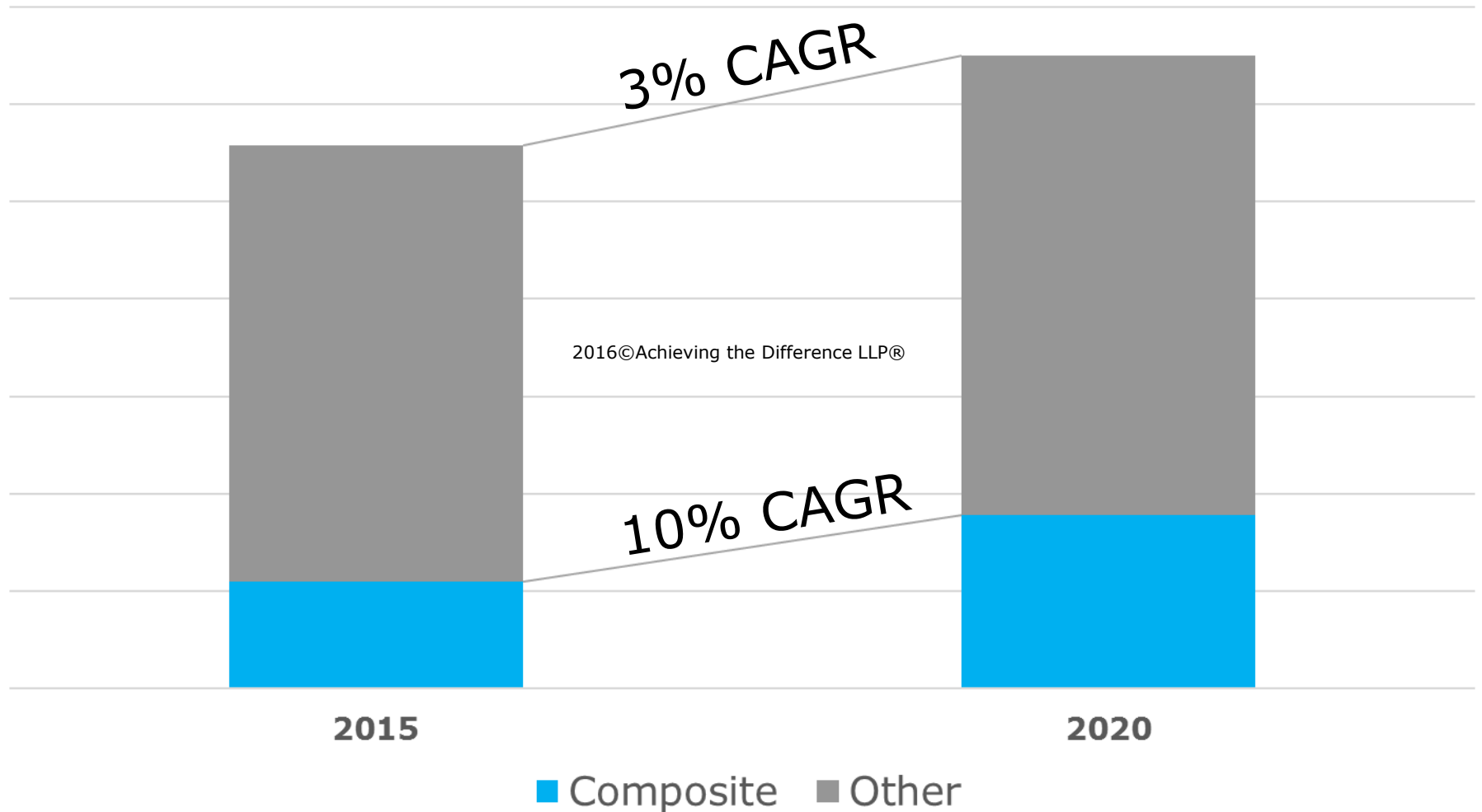
- Boeing Current Market Outlook 2016-2035
- Airbus Global Market Forecast 2016/2035
- Embraer Commercial Aviation Market Outlook 2016

# predicted need for more than 40,000 civil aircraft worth over \$6tr 2016-2035

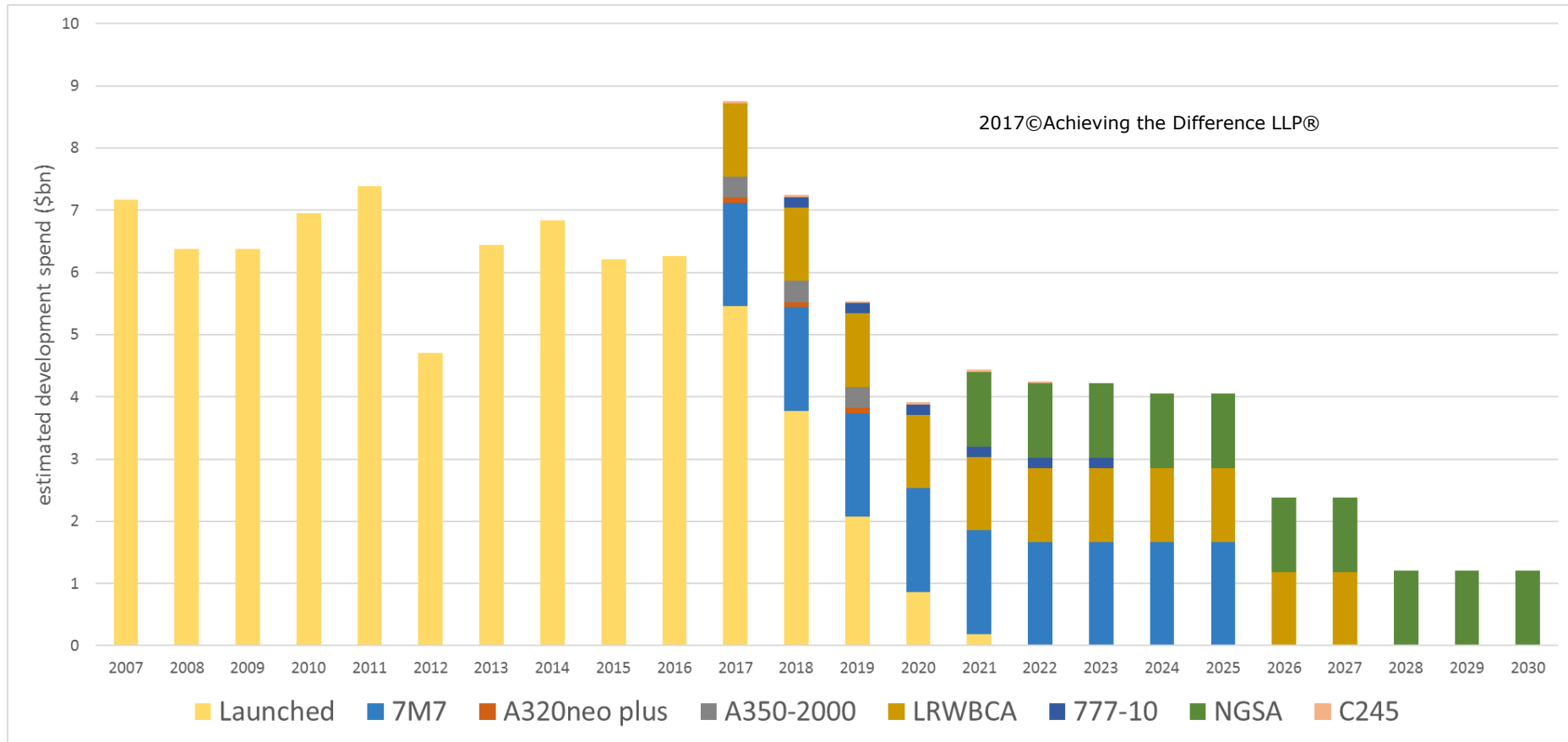


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# estimate of mass of materials used in building large commercial aircraft

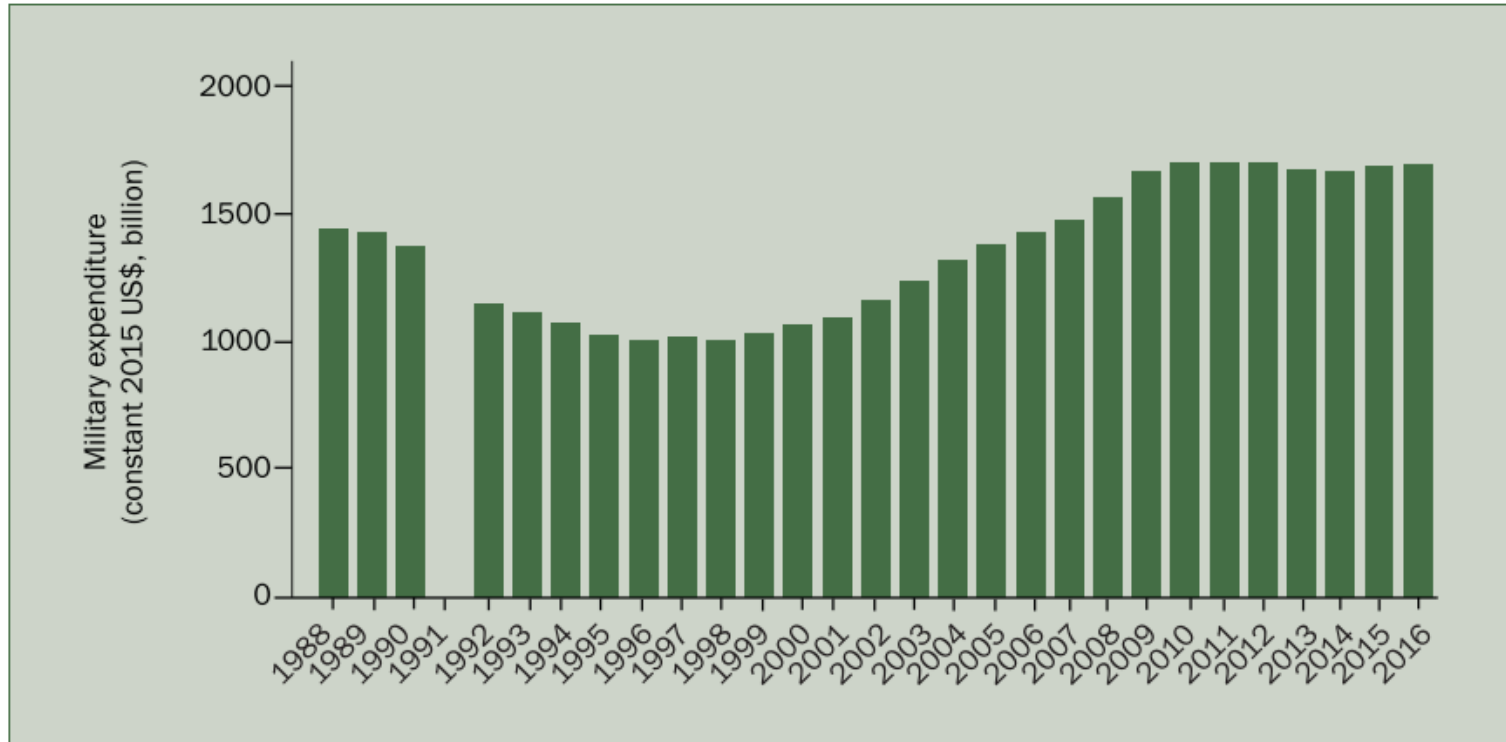


# aircraft r&d spend for major known programmes



R&D spend spread evenly from launch to last variant EIS

# military market



**Figure 1.** World military expenditure, 1988–2016

*Note:* The totals are based on the data on 172 states in the SIPRI Military Expenditure Database, <<http://www.sipri.org/databases/milex/>>. The absence of data for the Soviet Union in 1991 means that no total can be calculated for that year.

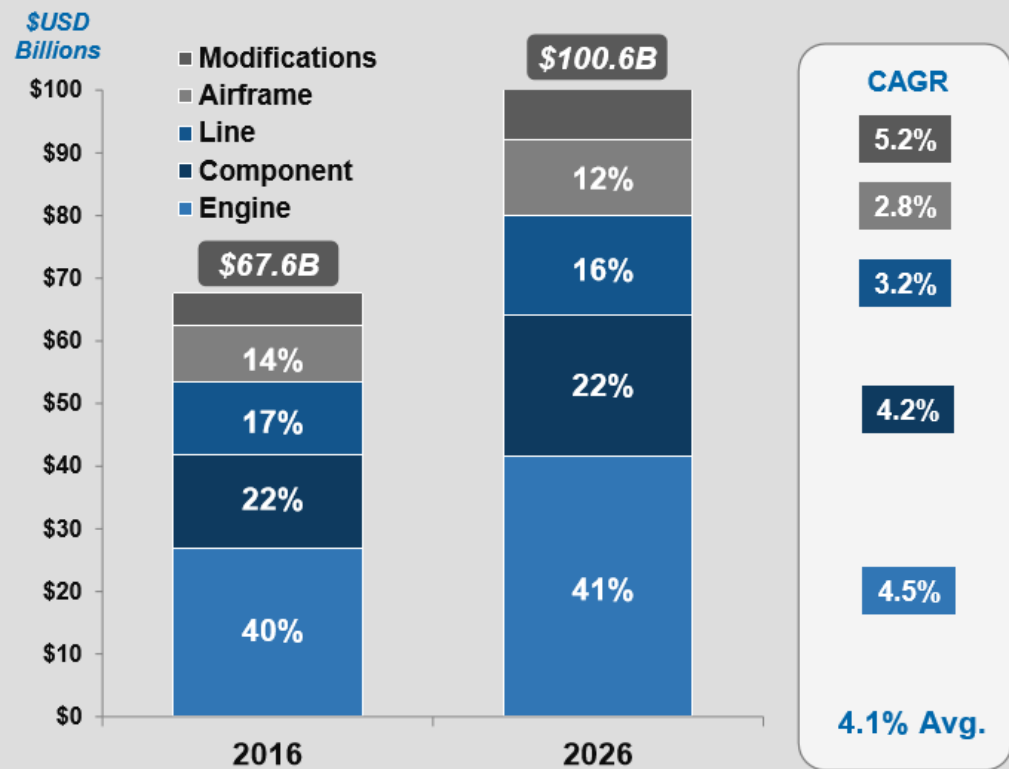
SOURCE: TRENDS IN WORLD MILITARY EXPENDITURE, 2016, SIPRI

# MRO – ICF International’s view

The global MRO market is expected to grow by 4.1% per annum to over \$100B by 2026

- Engine and component MRO markets remain the largest segments
- Modifications market will see the strongest growth (e.g. interiors, connectivity)
- Airframe market slows due to reduced man-hour intensity and increased check intervals as new fleets are introduced

10 Year Global Commercial Air Transport MRO Demand Growth



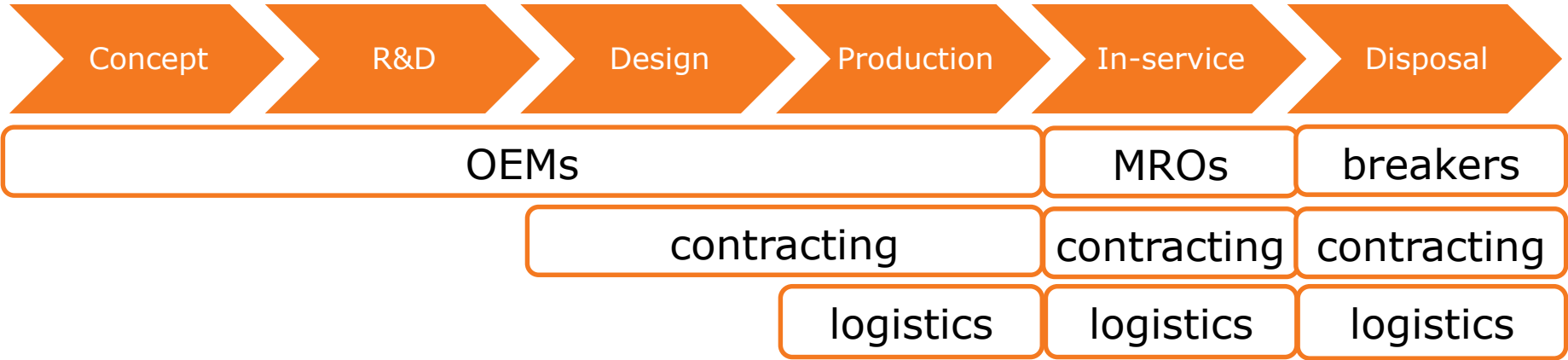
Source: ICF analysis; Forecast in 2016 \$USD, exclusive of inflation



servitization

# A NEW BUSINESS PARADIGM

# traditional model



## capability as a service

