



Ideas on how AMTAS Can Support the Aviation Industry (and more)

Alan G. Miller
Director, Technology
Integration
787 Program

12 April 2005



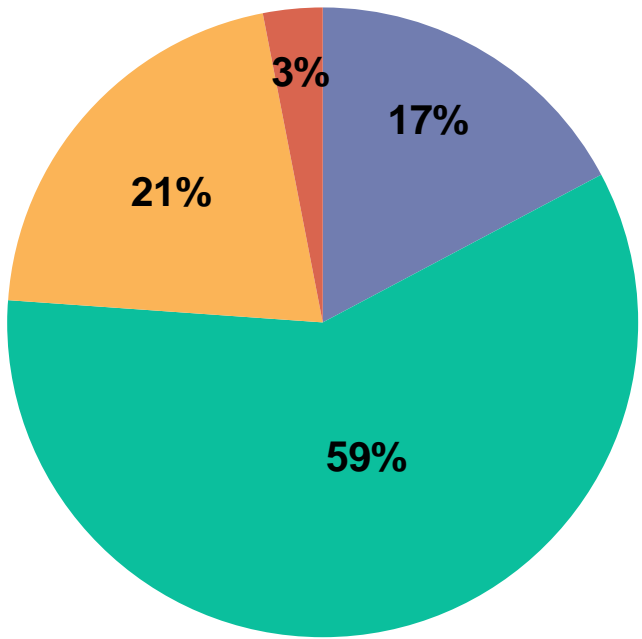


The 787 integrates many features

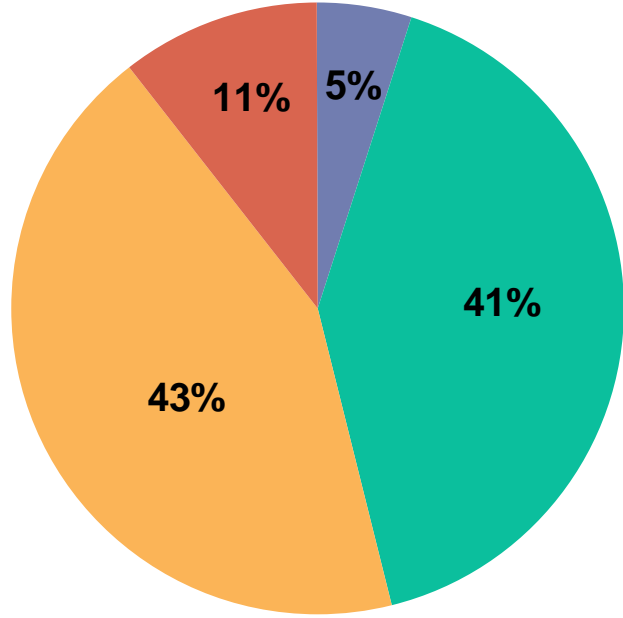




Airlines Will Need 25,000 New Airplanes



25,000 airplanes



2.0 trillion delivery dollars*

2004-2023

- Smaller regional jets
- Single-aisle
- Twin-aisle
- 747 and larger

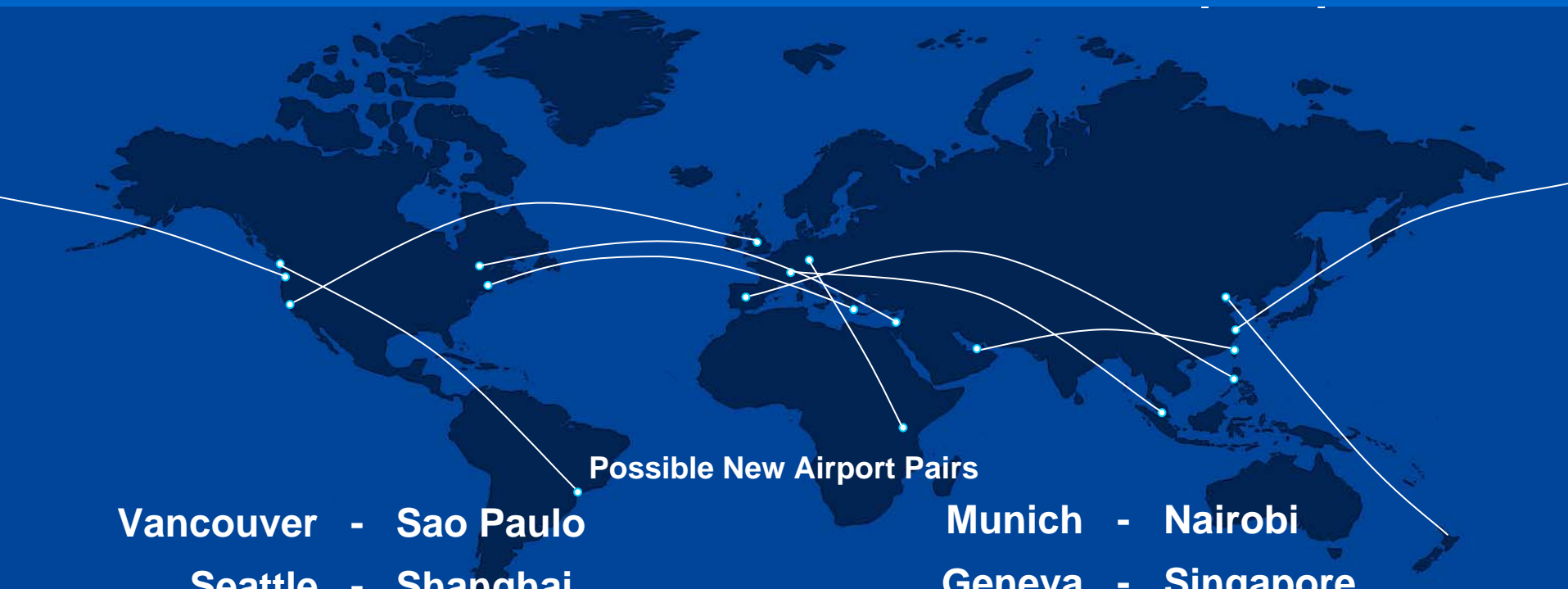
*In year 2003 dollars





Creating New Non-Stop Routes

The 787 can efficiently connect more than 450 new city pairs

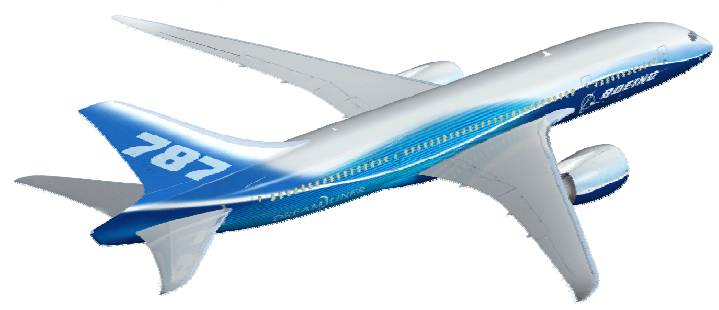


Possible New Airport Pairs

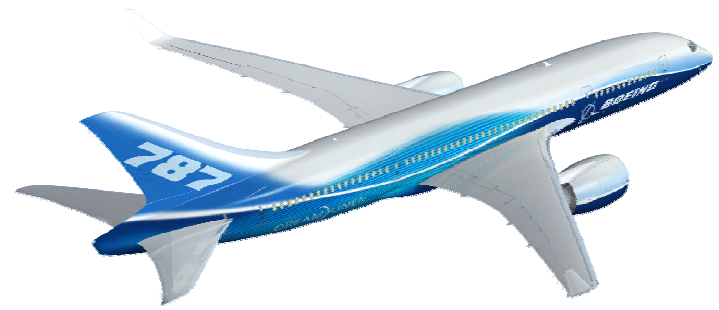
- | | |
|----------------------------|--------------------|
| Vancouver - Sao Paulo | Munich - Nairobi |
| Seattle - Shanghai | Geneva - Singapore |
| San Francisco - Manchester | Dubai - Taipei |
| Boston - Athens | Madrid - Manila |
| Tel Aviv - Montreal | Auckland - Beijing |



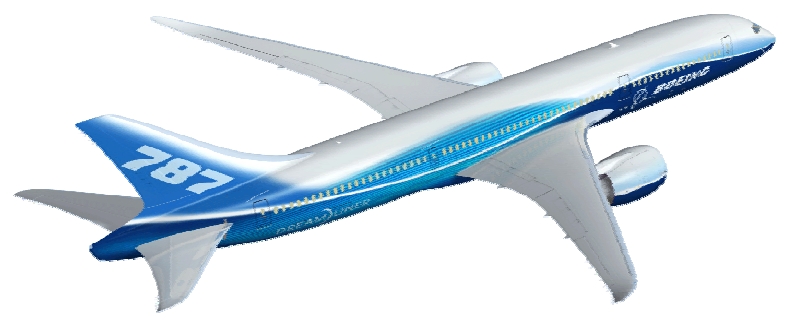
The 787 Is a Complete, Flexible, Efficient Family



787-8
223 passengers (three-class)
8,500 nmi / 15,700 km



787-3
296 passengers (two-class)
3,500 nmi / 6,500km



787-9
259 passengers (three-class)
8,300 nmi / 15,400 km





International Team at Work



A Finmeccanica Group Company



AIR CRUISERS





Configured for Success

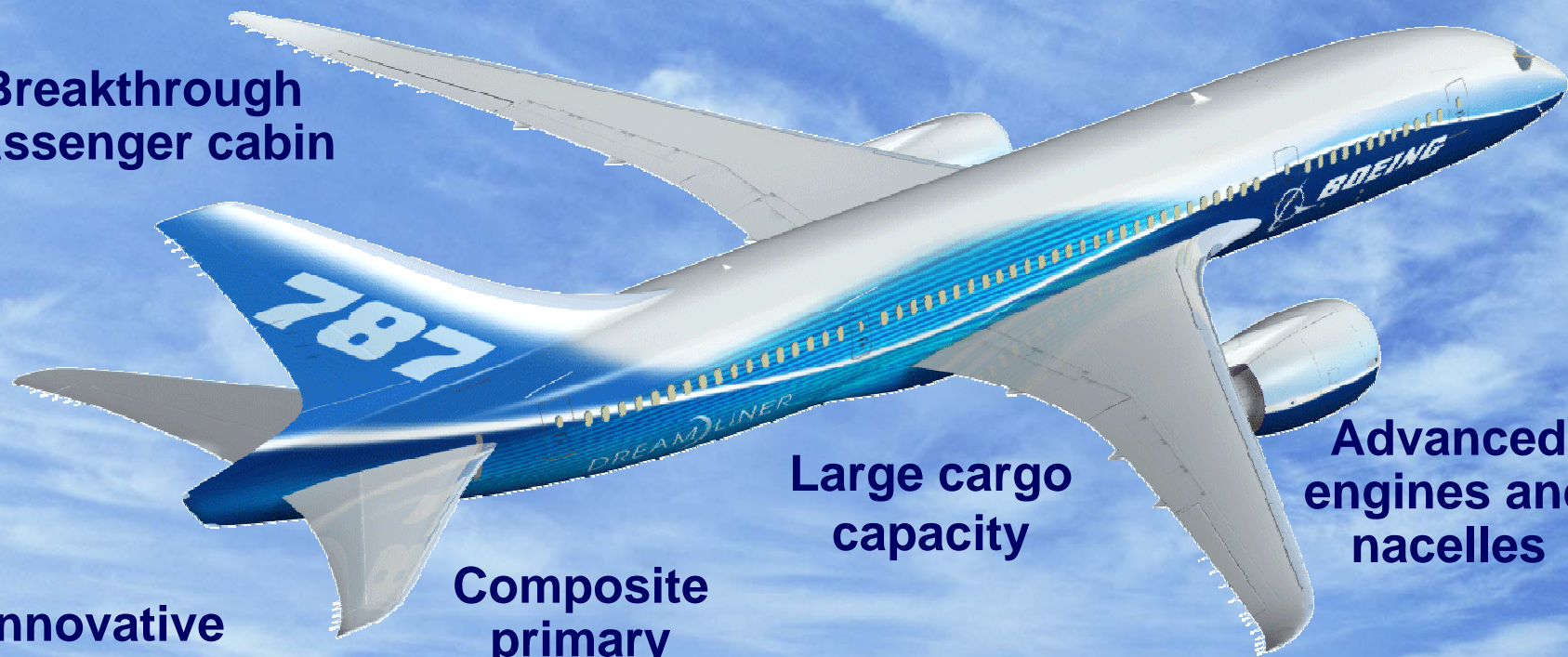
787-8 Design Features

Advanced wing design

Overhead crew rests

Enhanced flight deck

Breakthrough passenger cabin



Large cargo capacity

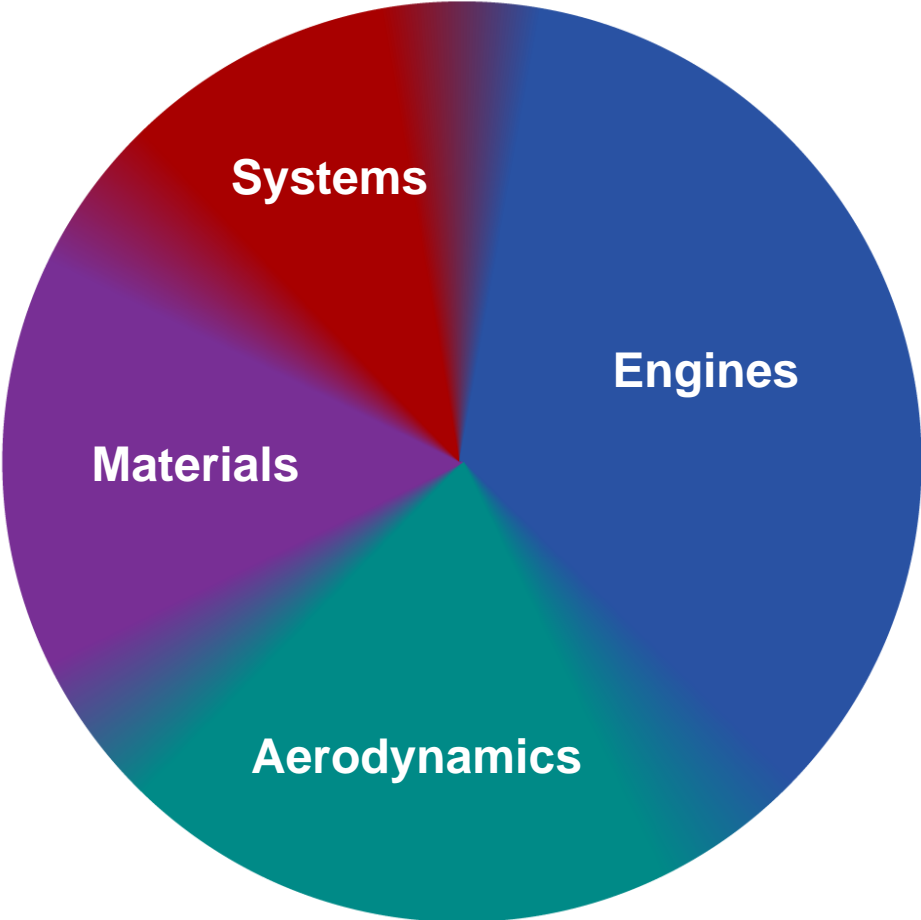
Advanced engines and nacelles

Composite primary structure

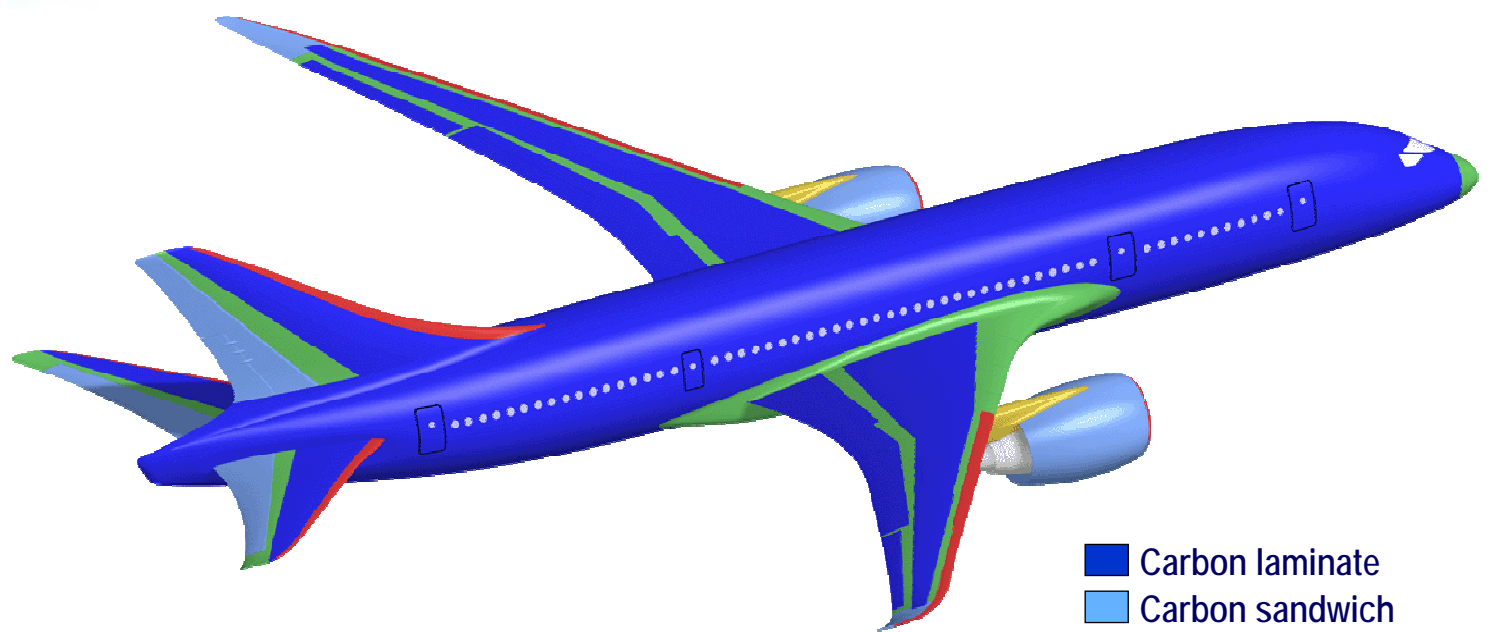
Innovative systems technologies



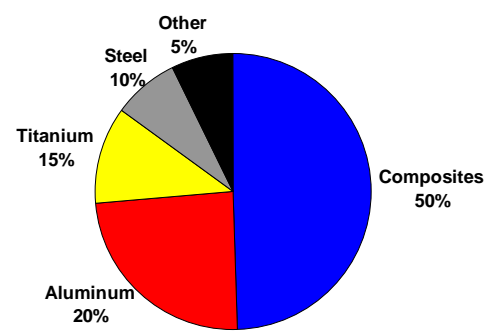
Advanced Technology Contributions to 787 Efficiencies



787 Composite Usage – Overview

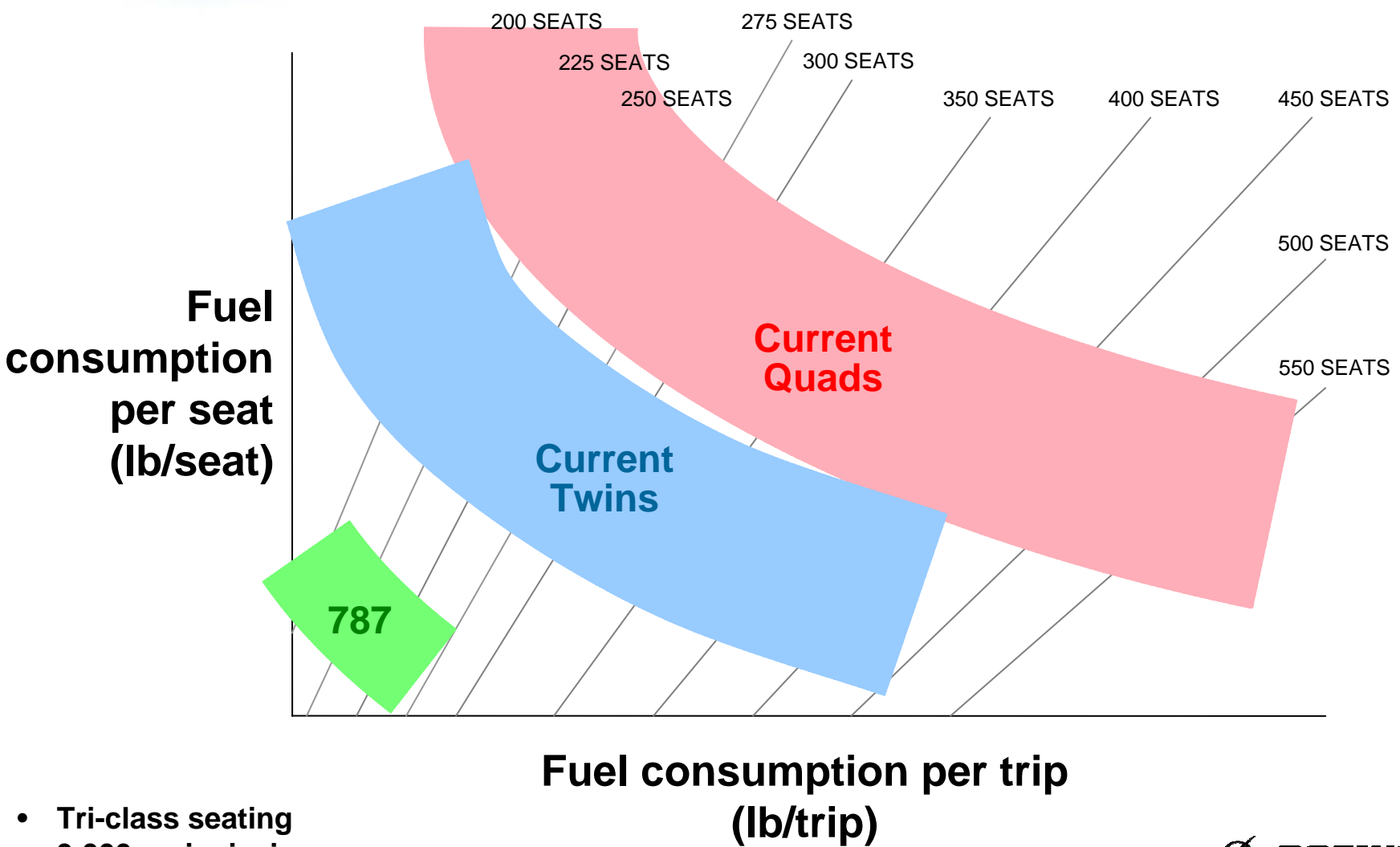


- Carbon laminate
- Carbon sandwich
- Fiberglass
- Aluminum
- Aluminum/steel/titanium





A New Standard in Performance



- Tri-class seating
- 3,000 nmi mission





Worldwide Market Interest Strong



6



50



4



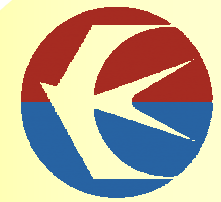
5



30



2



CHINA EASTERN



20



Continental

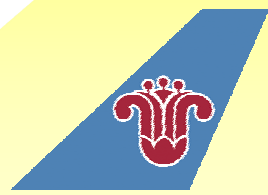
10



SHANGHAI AIRLINES



4

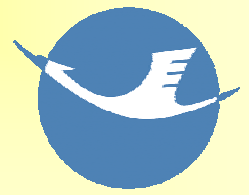


CHINA SOUTHERN

60



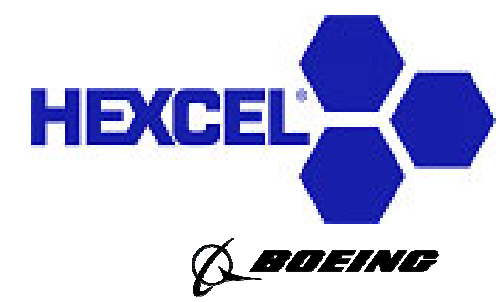
AIR CHINA



XIAMEN AIRLINES

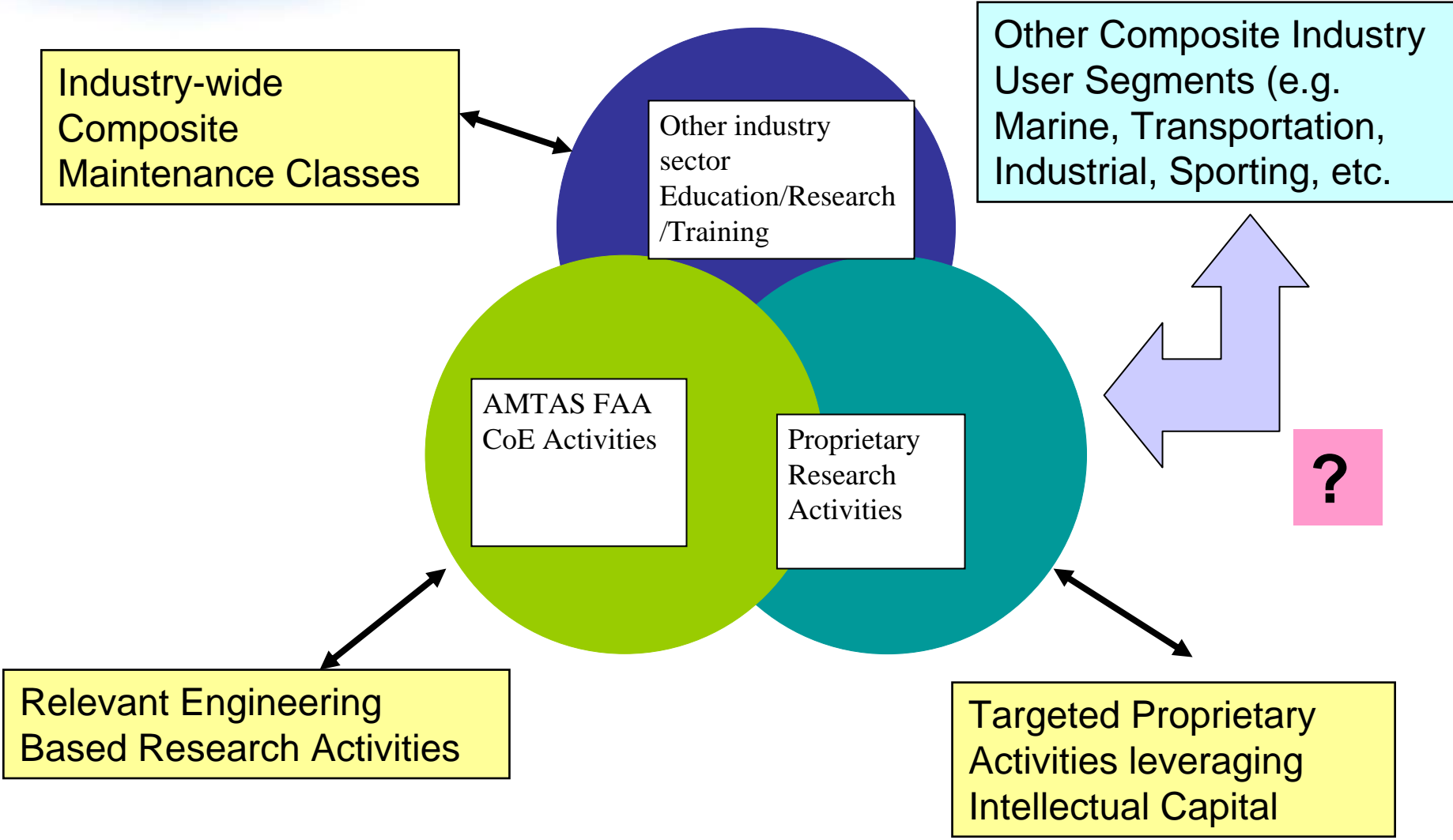


AMTAS Industry Participation is Strong





FAA CoE Activities and relationships for Aerospace





Example International Teaming Approach Short Fiber Composite Situation in a multi-industry setting

