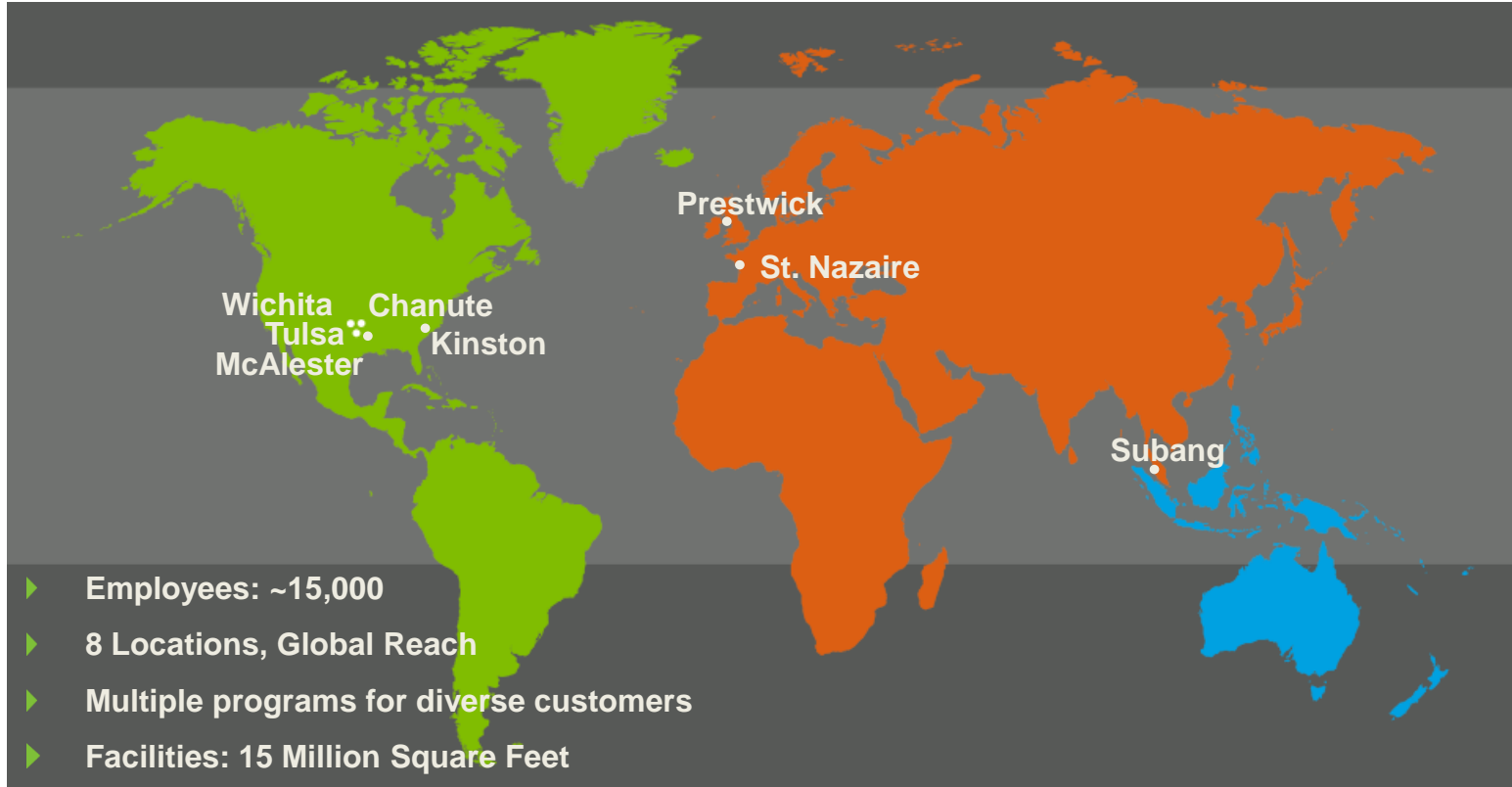




Francis Hiew  
Executive Director  
Spirit AeroSystems Malaysia Sdn Bhd



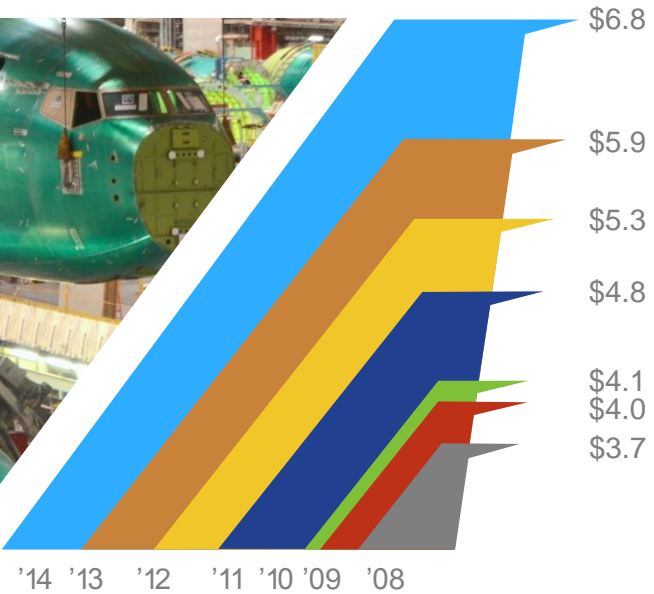
# Spirit AeroSystems in 2016



# Our Business Growth



Revenues in Billions



**Current Backlog Order Book \$47 Billion**

# Spirit AeroSystems Malaysia, Subang



- 307,000 sq foot building footprint
- 630 Spirit employees
- Composite & Metallic Assemblies (A320, A350, 787)



# Spirit Malaysia Successes – 2007 to 2016

- Dec '07 Commence building construction 270,000 Sqft
- Feb '09 Production started of A320 products
- Jul '09 Obtained AS9100 Certification and Airbus Approval
- Mar'10 Obtained NADCAP Accreditation for special processes
- Dec'10 OHSAS 18001 Certification
- Dec'11 Awarded 787 Fixed Leading Edge Assembly
- Oct'12 Delivered first set of A350 Route End Fillet Fairing To Airbus FAL
- Mar'13 Delivered 1st set 787FLE to Boeing/MHI, Nagoya
- Jul '13 Obtained Boeing composite repair approval (D6-53900)
- Dec'14 Delivered 2500<sup>th</sup> shipset of A320 products
- Apr'15 Delivered 200<sup>th</sup> set of 787FLE
- Dec'15 First A320 NEO Delivery
- Mar'16 Delivered A350-1000 REFF
- Dec'16 A350 REFF direct shipment to Toulouse FAL



**Delivered > 3500 A320, > 300 787 & 150 A350 Aircraft in 8 Years**

# Spirit AeroSystems Suppliers In Asia



# Joining The Aerospace Supply Chain in Manufacturing



**Francis Hiew**  
**Spirit AeroSystems Malaysia**  
**Executive Director**



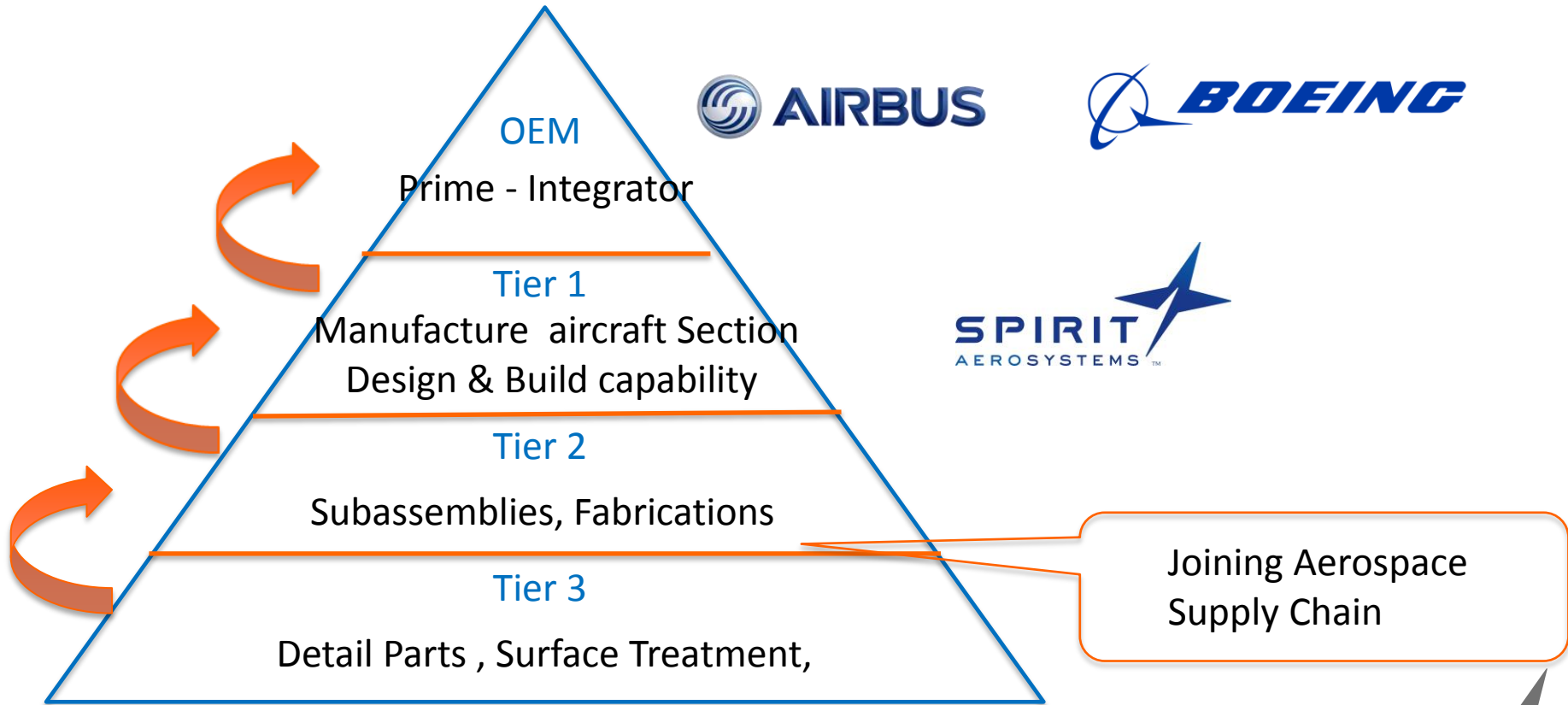
# Joining the Aero-structure Supply Chain

## - Route to Success

- Quality certification requirements to become an aerospace supplier
- Qualitative fundamentals of Aerospace company
- Rewards



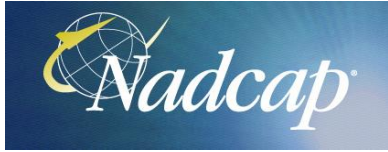
# Aerospace Supply Chain Tiers



# Customer & Regulatory Requirements

- **ISO 9001** – Basic Quality Management System for all Industry Sectors
- **AS/EN/JISQ 9100** – QMS Requirements for Aviation, Space and Defense Organizations
  - **AS 9110** – QMS Requirements for Aviation Maintenance Organizations
  - **AS 9120** – QMS Requirements for Aviation, Space & Defense Distributors
- **AS 9102** – Aerospace First Article Inspection Requirements & Net Inspect
- **NADCAP Accreditation for Special Process(es)**
- **OEM's approval**

# Special Process Approval



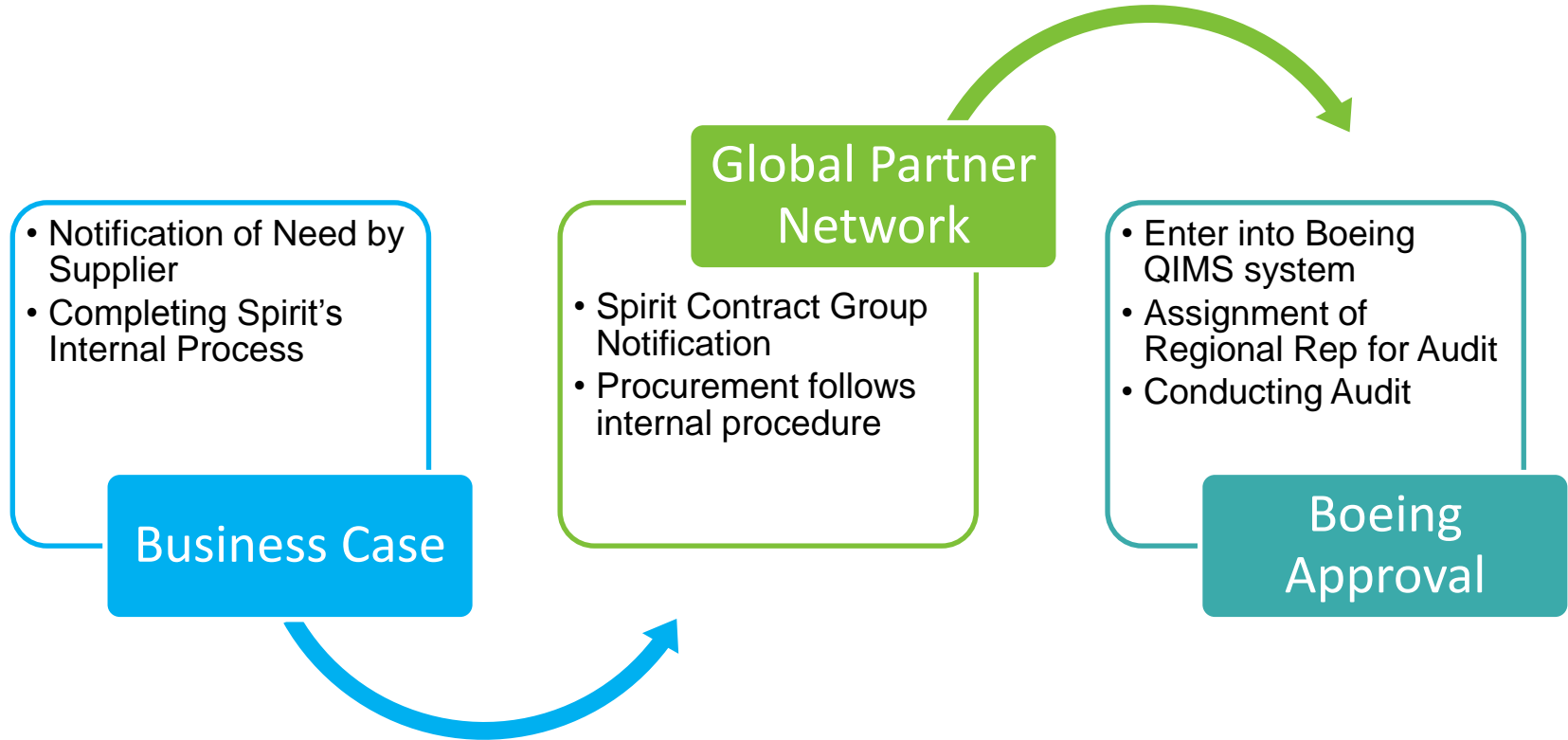
## Required Special Process Accreditations

- Composites
- Chemical Processing
- Heat Treat
- Material Test Laboratories
- Non-Destructive Testing
- Surface Enhancements (Shot Peen)
- Welding

# Customer Approval Process- Airbus



# Customer Approval Process- Boeing





# Aerospace Supplier's Qualitative Fundamentals

- Passion for success in aerospace
- High standard of quality
- High Standard of Integrity & discipline
- Capacity and Capability
- Sustenance & Patient – Long Gestation, high barrier to entry
- Lean – Continuous Improvement
- Attention to Details & Excellent Planning Skill
- Open and Honest Communication

# Rewards

- Industrial recognition – clear statement of capability and integrity
- Stable and predictable demand
- Long product life cycle & Long term contracts
- Partnership and single source (most cases)



**Thank you**