

MRO Securcing challenge

The global resourcing challenge



William Arblaster Jan 2024

Introduction of Swire Pacific Group



Swire is a highly diversified global group consisting of the following:

PROPERTY



BEVERAGES





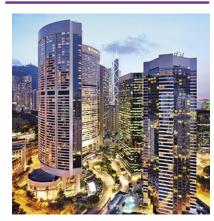


HEALTHCARE



TRADING & INDUSTRIAL















- Total capital employed ~US\$75,000m
- Global employees ~105,000
- Current presence in Vietnam
 - Swire representative office in HCMC
 - Cathay Pacific first started flying to Vietnam in 1949, restarting regular flights in 1992.
 - 2020: Acquired a minority stake in The River, a luxury residential project on Thu Thiem New Urban Area in HCMC.
 - 2021: Invested in Empire City, a large residential-led mixed-use project consisting of residential apartments, hotel, office, retail and serviced apartments also on Thu Thiem.
 - 2022: Acquired the bottling and distribution businesses of Coca-Cola in Vietnam.





Introduction of HAECO Group



- Established in 1950, HAECO Group is one of the world's leading aircraft engineering and maintenance service providers:
- 16 operating companies
- ~13,000 employees
- Serving +300 airlines and other customers
- 28 hangars
- Nose to tail solutions encompassing:



Offers base maintenance, cabin reconfiguration, structural modification, and freighter conversion, as well as line maintenance, including transit checks and certification, ramp services, cabin management and 24/7 aircraft-on-ground support across Asia.



Provides inventory technical management, landing gear services, composite services, component repair and overhaul services for hydraulic, mechanical, avionics and pneumatic systems across the Airbus and Boeing aircraft families.



Operates world-class repair, overhaul and testing facilities and provides global, 24/7 on-wing and off-wing engine support for Rolls-Royce, GE Aviation and Pratt & Whitney aircraft engines.

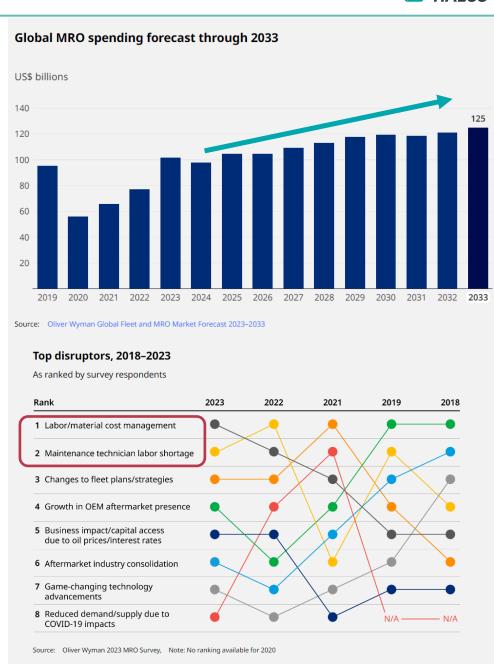


Global MRO market outlook and challenges



- The MRO market has returned to 2019 pre-pandemic levels, with the global fleet 98% recovered and passenger traffic back to 90% as of the beginning of 2023
- MRO spending is expected to grow by 2.9% per annum for the next 10 years through 2033

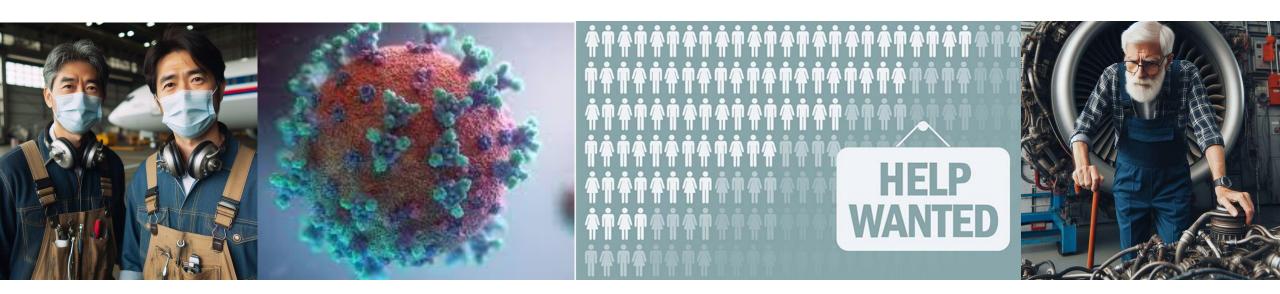
- The top two challenges identified by MRO executives are resource related:
- Labour / material cost management
- Maintenance technician labour shortage



COVID impact or a more structural problem?



- Even in 2019 in the US, the average age of an aircraft maintenance technician was 51, a full nine years older than the rest of the workforce.
- Over 30% of aviation technicians will be at retirement age in the next 5 years.
- Boeing reports there is demand for nearly 700,000 aircraft technicians in the next 20 years. Solely for SE Asia nearly 75,000 are required
- According to the London-based aviation technical recruitment organisation VHR, there is "one clear reason" behind the global skills shortage: "a lack of interest in aviation from younger talent pools."



How is HAECO tackling the resource challenge



- Business optimization using technology
 - Leverage digital and technology tools to improve competitiveness, transform operational performance, enhance customer value proposition.
 - Improve efficiency, staff & customer satisfaction, improve margins

- Expand workforce
 - Retain and motivate existing talent
 - Attract new people into the industry
 - Education partnerships Colleges & universities, apprenticeships
 - Sourcing from new geographies
 - Increase female participation



Digital Products & Technology Initiatives



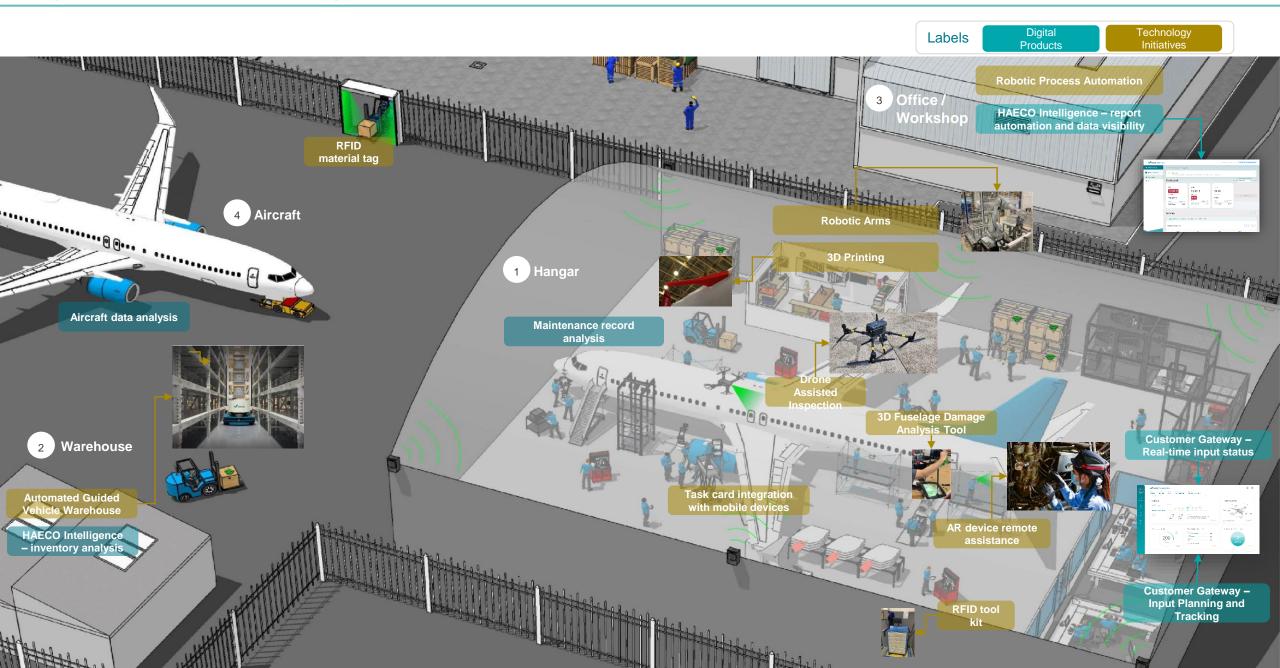
Expand workforce

Sustainable aviation ecosystem





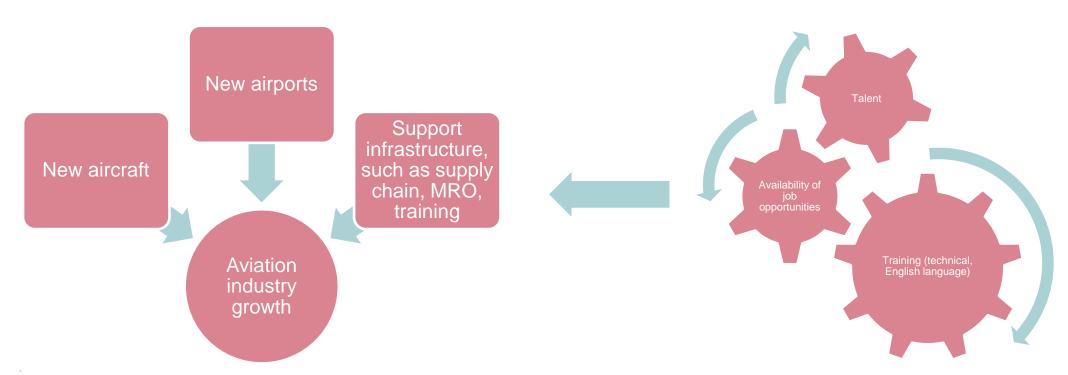




The Vietnam picture – Demand



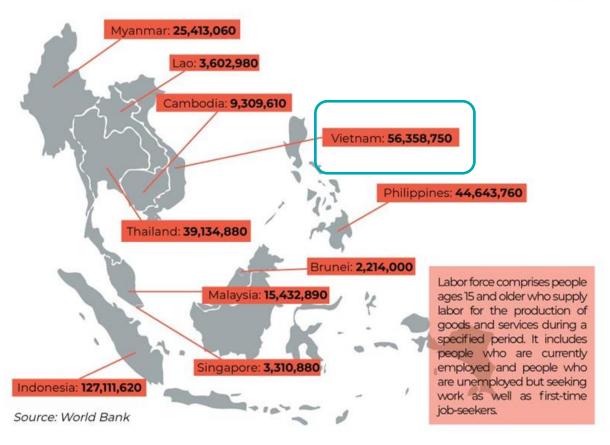
- According to the 2021 Commercial Aviation Fleet & MRO forecast, Vietnam's fleet will reach 521 aircraft by 2030 at a CAGR of 9.6 percent (compared to 3.4 percent of Asia Pacific).
- Vietnam MRO market is expected to grow at CAGR of 10.6 percent over the next decade 2021-2030, in line with the 9.6 percent annum expansion in its fleet.
- New airport and existing airport expansion projects in sight.
- Civil Aviation Administration of Vietnam (CAAV) estimates that the MRO demand in Vietnam will reach \$7.4 billion by 2030, with domestic MRO demand growing even faster. However, the industry is facing a significant challenge in terms of <u>labor shortages and the procurement of highly skilled workers.</u>
- In 2022, total local MRO revenue is estimated to reach \$151 million while the total MRO demand in Vietnam is \$654 million. Vietnam MRO's capability is still in the initial stage, only accounting for up to 23 percent of market demand while 77 percent of services are being outsourced.





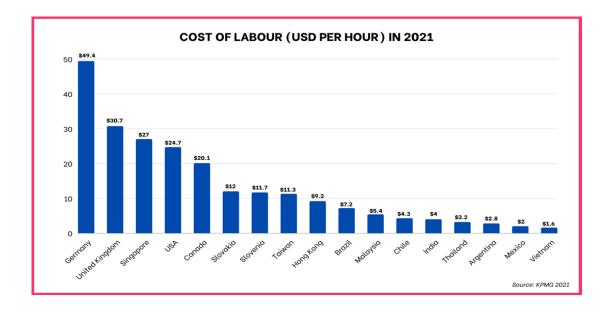
LABOUR FORCE INASEAN MEMBER STATES





Source: The World Bank

- Vietnam has the 2nd largest labour force in ASEAN.
- The supply of an educated and cost-competitive workforce is attractive to labour-intensive but high tech industry, such as aviation MRO.
- There are thousands of qualified engineers who could work in aviation, with many more graduating each year





The Vietnam Picture – what could be done





- Industry to broaden engagement with schools/universities on broader aviation technician opportunities.
 - E.g. HAECO will look to participate and sponsor graduates to training schools in China and Hong Kong.
- Incentives to promote the establishment of MRO specific Part-147 technical training in Vietnam
- Investment in the MRO sector (in general) to raise its profile amongst young graduates to build the pipeline of talent

Conclusions



- Global demand for Aviation Technicians will remain strong
- Vietnam's own strong aviation growth will mean a strong demand for technicians to support domestic MRO
- Vietnam outsources (overseas) more than 70% of it's MRO work
- Vietnam has strong fundamentals
 - Young workforce
 - High Education levels
- Challenges still remain
 - English language skills not at international standards
 - Limited local training schools



Vietnam has the opportunity to not only support its domestic MRO development; but also, be a key supplier for growing International demand.





Thank you

