

FIRST QUARTER 2021

# ASIAN SKY Quarterly

**THE NEW BATTLEGROUND –  
ULTRA LONG-RANGE JETS**

**G700, GLOBAL 7500 & FALCON 10X**

## INTERVIEWS

SINO JET

COMLUX

## COMMENTARY

CLYDE & CO

GLOBAL JET CAPITAL



The G650/ER is the most popular business jet in Asia-Pacific

## MARKET UPDATES

AMSTAT

WINGX ADVANCE

## PRE-OWNED MARKET

GLOBAL XRS & GLOBAL 6000

## AIRCRAFT SPOTLIGHT

FALCON 6X





# FIRST FLIGHT NEW HEIGHT

FALCON 6X FIRST FLIGHT. MARCH 10, 2021



**It's the tallest and the widest cabin in business aviation.** It's also the most comfortable and most advanced Falcon yet. The widebody Falcon 6X is on its way from first flight to the world. It's time to redefine your 5,500 nm (10,186 km) travel experience.

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**DASSAULT  
AVIATION**



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# EDITOR'S NOTE



There is some bad news, and good news with this issue of Asian Sky Quarterly. The bad news is that we are a little later than usual publishing (see page 28 for the reason why we held on a little longer than normal before going to press), but the good news is that the economic and industry recovery that we started seeing in the previous edition has continued into the first quarter of 2021.

This could have been predicted by our Mood and Intentions survey, which for the past few issues has seen an increasingly positive mood creeping back into the industry. This survey is one of the most important, and most respected, sections of Asian Sky Quarterly. It is also, in many cases, the section that people turn to first when reading the magazine.

It is not hard to see why. The data that we report each issue lets people understand what has been happening in the industry, but the Moods and Intentions survey shows how people are thinking, and can often be seen as an early indication on the direction that the market is heading in.

Take the results from the optimism on economic status that we ran at the end of the first quarter of 2020 as an example. Whilst you might be tempted to find the nearest cliff to run and take a jump from, this was at the height of the first wave of the pandemic's seemingly unstoppable march around the world. At that stage, nobody knew what would happen, panic had well and truly set in, and countries around the world were sealing themselves off from the rest of the world to keep the virus out as much as they could. Scheduled airline flights were slashed, and even if you did have access to a private jet, the places you could visit were limited to a handful of countries that were still open to some degree. Optimism in the industry was low, and understandably so.

But by the time we surveyed people again for the second quarter of 2020, we were already beginning to see some optimism return, especially in Greater China and Oceania. For the rest of the Asia-Pacific region, this was the low point, but from the second half of the year, optimism returned for all regions. In many cases, the level of optimism that we are seeing now is the highest it has been since 2018.

As this optimism transitioned throughout the latter part of the 2020, it translated from intentions to actions, and we saw more aircraft flying and more pre-owned transactions taking place. And that is exactly what the survey is intended to do. It is intended to be a signal, an early indicator of the direction that the industry will take. And the good news, is that all signals from the first quarter of 2021 are looking positive so far.

As well as the usual surveys and market updates, this edition of Asian Sky Quarterly includes a special feature on the ultra-long-range sector, with our originally scheduled publishing date being retimed to include Dassault's recently launched Falcon 10X. Elsewhere, we have interviews with and articles from Sino Jet's Roselle Wong on how 2020 was for the company, Peter Coles and Stuart Miller of Clyde & Co on defaults, recoveries and opportunities, Daron Dryer of Comlux Completion on the work involved in completing the cabin of the first Airbus ACJ TwoTwenty, and Dassault, which talks us through the progress it is making with the flight test campaign for the Falcon 6X. We round off the issue by turning the spotlight on the Global XRS and Global 6000 pre-owned market.

As always, we would like to thank Global Jet Capital, WingX Advance, and AMSTAT for graciously supply data and commentary for this edition.

Sincerely,  
Alud Davies

Media & Communications Director, Asian Sky Group

## SPECIAL THANKS TO OUR CONTRIBUTORS:







## THE GULFSTREAM DIFFERENCE

Your mission is our inspiration. Every investment we make—in advanced technology, precision manufacturing and worldwide customer support—is an investment in you.



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## GREATER CHINA | MAINLAND CHINA, HONG KONG, MACAU & TAIWAN

### Mainland China

China's economy expanded by 2.3% in 2020. Although it was the lowest growth the country has seen since 1976, it was still the only major global economy to grow during the year. The momentum from the second half of the year is expected to continue into 2021, with the IMF forecasting growth of 8.1% for the year.

### Hong Kong, China

Hong Kong's economy shrank by 6.1% in 2020 – the steepest decline it had ever recorded. Blamed largely on the COVID-19 pandemic, private consumption expenditure was at its lowest levels ever, as uncertainty around economic conditions and a deteriorating job market took their toll on public confidence.

### Taiwan, China

Taiwan's economy expanded by 2.98% in 2020 – the first time that the country's growth outpaced China's. The rise was largely due to increased exports, specifically Taiwanese electronics, as well as an increase in domestic consumer spending.

\*Data Source : Trading Economics

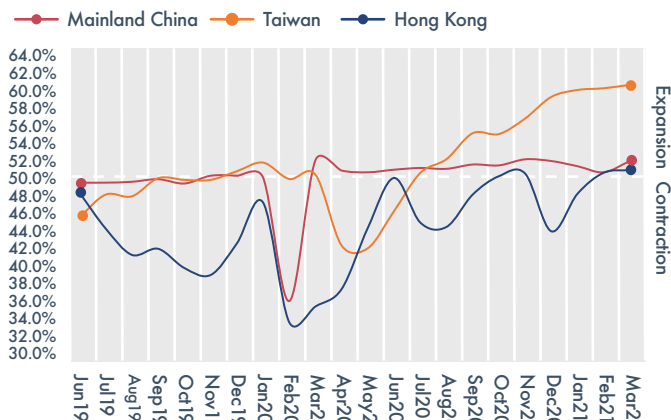
\*Macau's PMI is not available.

A reading above 50 indicates an expansion of the manufacturing sector compared to the previous month; below 50 represents a contraction; while 50 indicates no change.

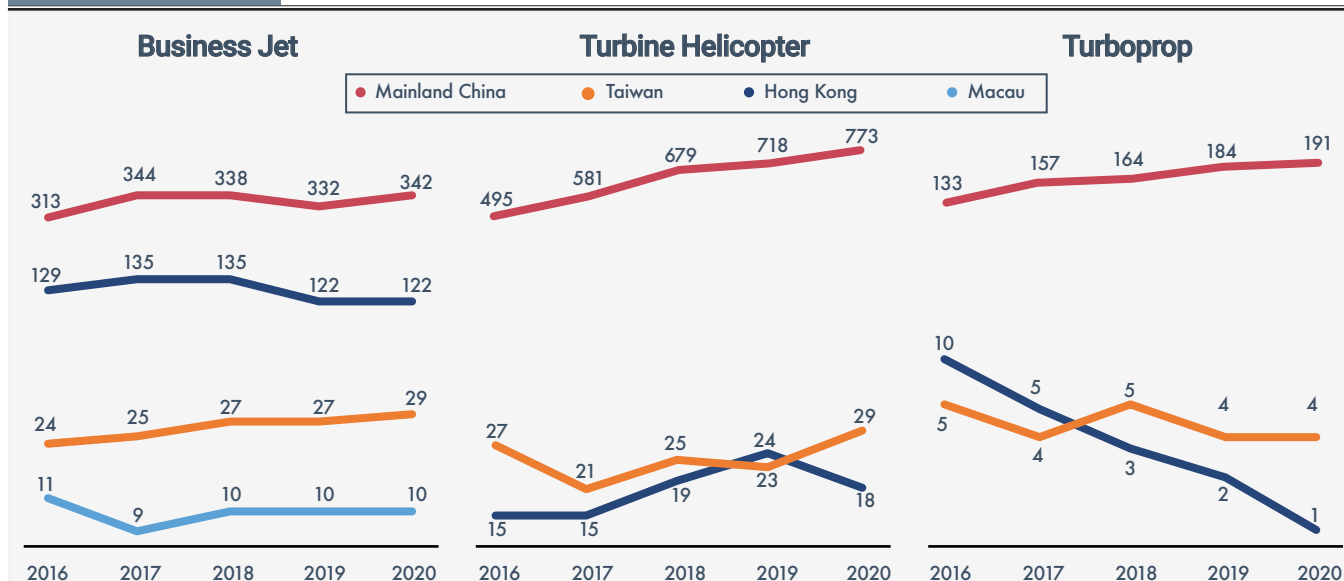
### GDP GROWTH (BILLION USD)



### PURCHASING MANAGER'S INDEX



## FLEET SIZE GROWTH



Data Source : The business jet and helicopter fleet: Asian Sky Group's Business Jet Fleet Report & Helicopter Fleet Report, Turboprop data provided by AMSTAT. The current fleet data is preliminary, all fleet size data will be finalized in upcoming Helicopter / Business Jet Fleet Report.



# AUSTRALASIA | AUSTRALIA, NEW ZEALAND

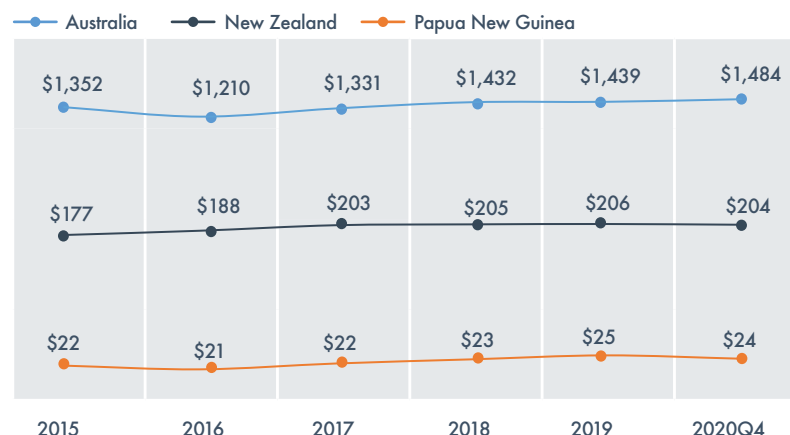
## Australia

Although Australia's fiscal reporting period runs slightly different to other countries, in its latest full year figures saw the economy contract by 1.1%. Australia's economy was originally forecast to expand by 3.2% in 2021, however the IMF has since revised its forecast upwards to 4.5%.

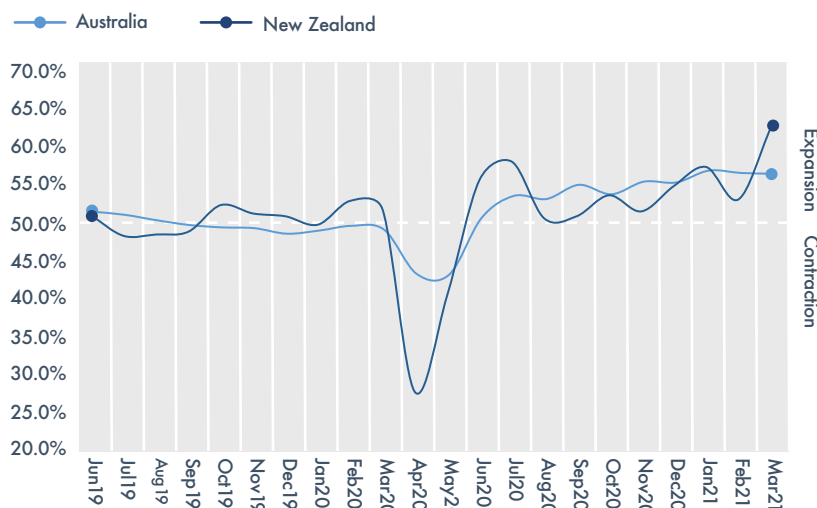
## New Zealand

New Zealand's economy declined by 2.9% in 2020, following a decline of 11% in Q2. This was offset by a rebound of 13.9% in Q3, although Q4 saw another decline.

## GDP GROWTH (BILLION USD)



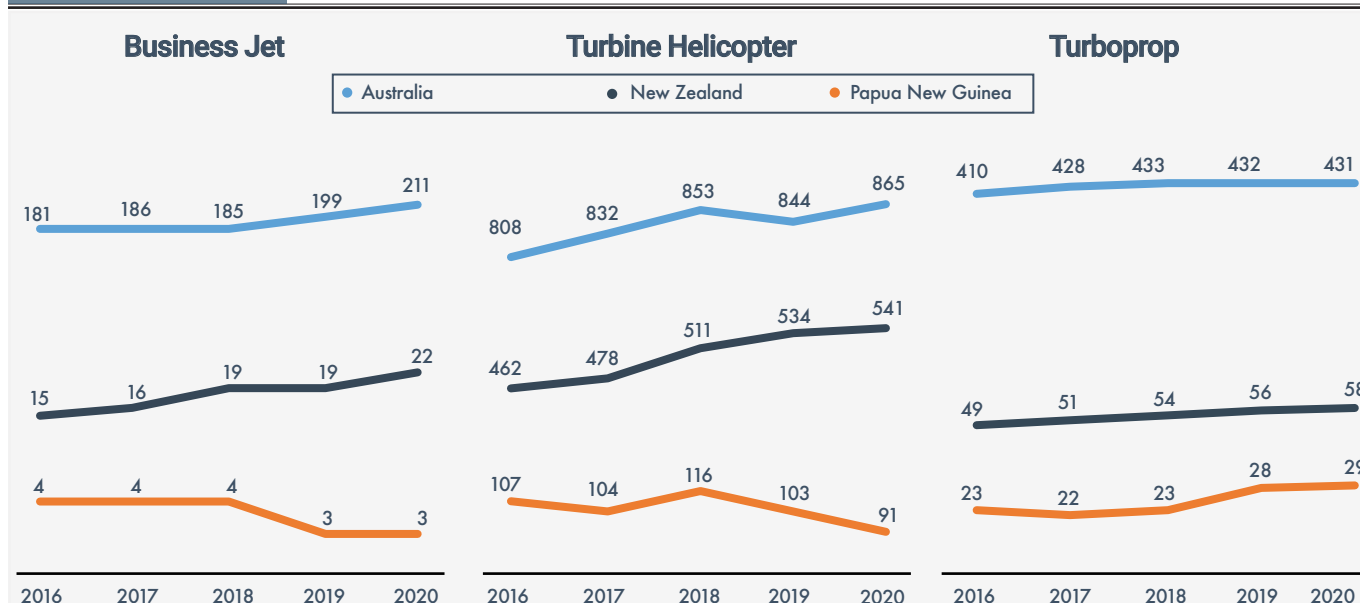
## PURCHASING MANAGER'S INDEX



\*Data Source : Trading Economics

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## FLEET SIZE GROWTH



Data Source : The business jet and helicopter fleet: Asian Sky Group's Business Jet Fleet Report & Helicopter Fleet Report, Turboprop data provided by AMSTAT. The current fleet data is preliminary, all fleet size data will be finalized in upcoming Helicopter / Business Jet Fleet Report.

# SOUTHEAST ASIA | THAILAND, MALAYSIA & SINGAPORE

## Thailand

Thailand's GDP dropped by 6.1% across 2020, the steepest decline since the Asian financial crisis. This was largely due to Thailand's borders being shut, with the tourism sector particularly badly hit – a sector that has traditionally contributed to approximately 17% of the country's annual GDP.

## Malaysia

A decline of 5.6% in Malaysia's economy during 2020 was steeper than the country's original estimate of 4.5%. That was largely due to an increase in COVID-19 cases towards the back end of the year, which has continued into 2021.

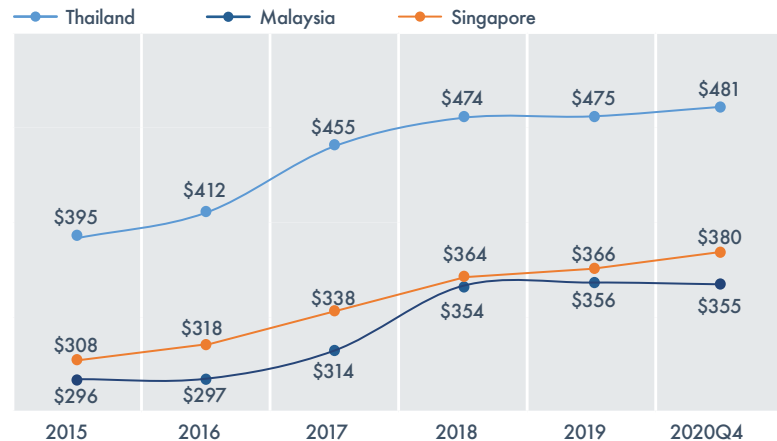
## Singapore

Singapore's economy saw a contraction of 5.6% in 2020, although the rate of decline slowed in the second half of the year. The city state's own forecast for the year was a contraction of between 6 – 6.5%. The economy was bolstered during the year by increased output in the manufacturing sector, which expanded by 7.1% across the full year.

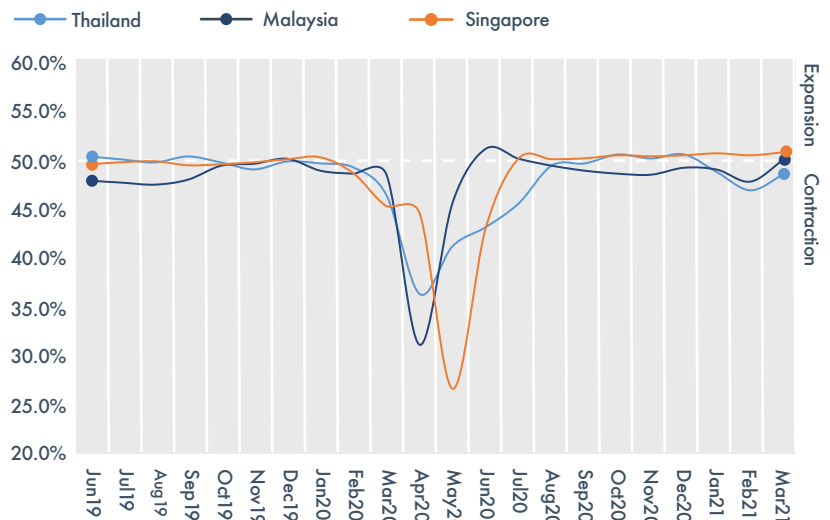
\*Data Source : Trading Economics

\*A reading above 50 indicates an expansion of the manufacturing sector compared to the previous month; below 50 represents a contraction; while 50 indicates no change.

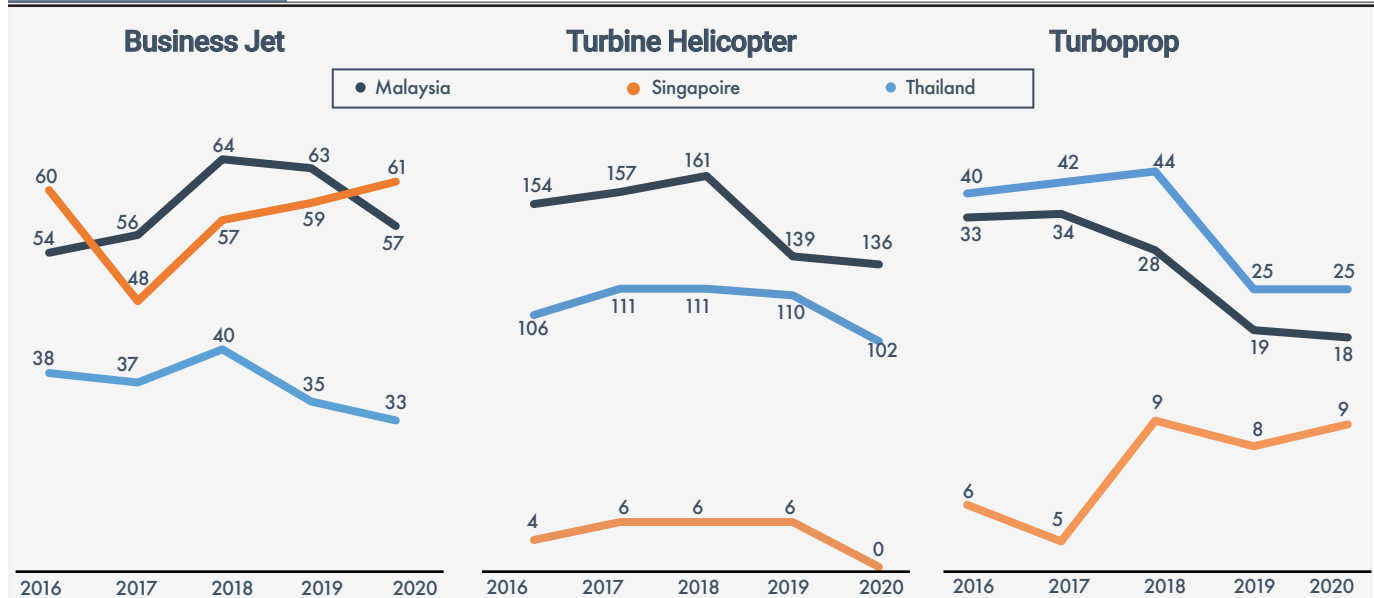
### GDP GROWTH (BILLION USD)



### PURCHASING MANAGER'S INDEX



## FLEET SIZE GROWTH



\* Data Source : ASG's Annual Business Jet Fleet Report and Helicopter Fleet Report. Turboprop data provided by AMSTAT.



# SOUTHEAST ASIA | INDONESIA & PHILIPPINES

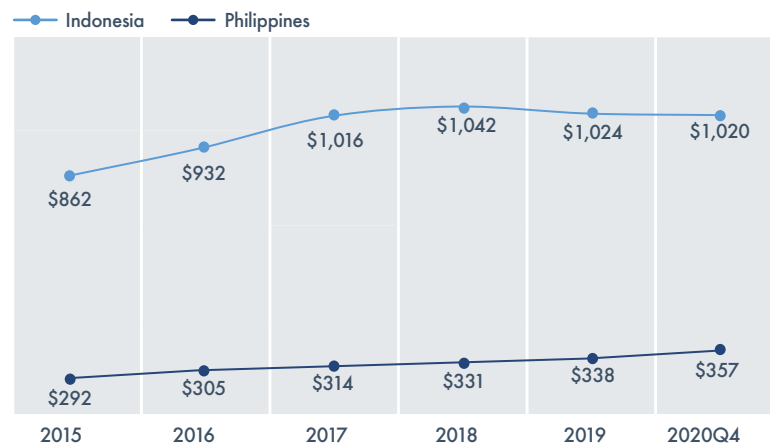
## Indonesia

Indonesia's economy began to bounce back in the second half of 2020 and ended the full year by contracting by 2.1%. The bounce back was driven by private consumption, as well as by domestic investment. The World Bank estimates that Indonesia's economy will grow by 4.4% in 2021.

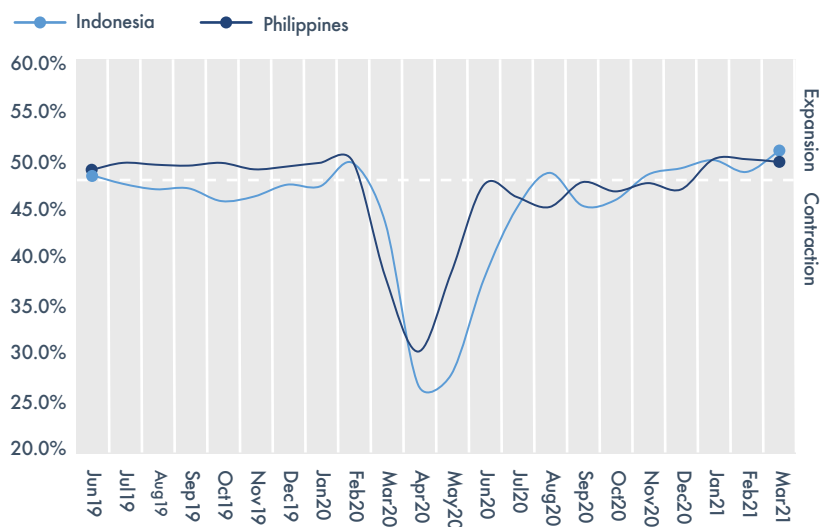
## Philippines

The economy in the Philippines saw its worst decline since 1947 – the year it began keeping records. Its 9.5% decline was driven by lower household consumption due to rising unemployment levels. Its economy is expected to rebound in 2021, but not reach pre-pandemic levels until mid-2022.

### GDP GROWTH (BILLION USD)



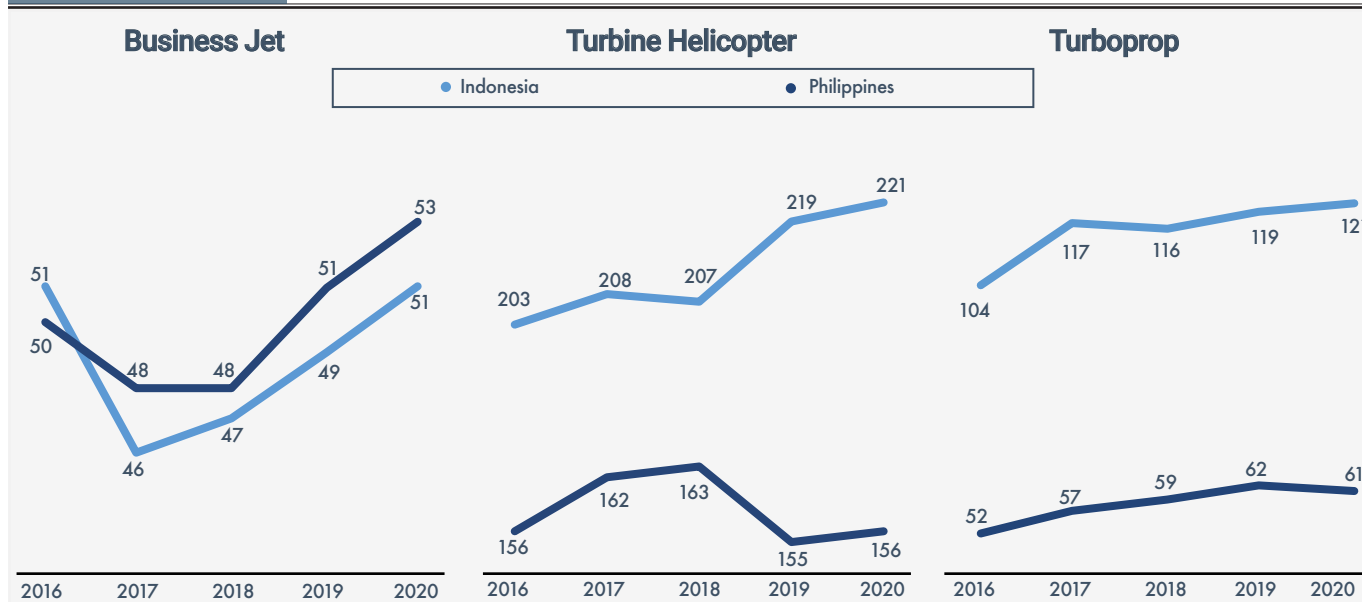
### PURCHASING MANAGER'S INDEX



\*Data Source : Trading Economics

\*A reading above 50 indicates an expansion of the manufacturing sector compared to the previous month; below 50 represents a contraction; while 50 indicates no change.

## FLEET SIZE GROWTH



\* Data Source : ASG's Annual Business Jet Fleet Report and Helicopter Fleet Report. Turboprop data provided by AMSTAT.

# EAST ASIA & CENTRAL ASIA | JAPAN, SOUTH KOREA & INDIA

## Japan

Japan's economy declined by 4.8% in 2020 – the first time since 2009 that the country's economy contracted. However, the economy had rebounded by 3% in Q4, driven by an increase in exports, private consumption, and private investment. The country expects that its economy will grow by 4% in 2021.

## South Korea

South Korea's economy declined by 1% in 2020 – the first time that it had contracted in 22 years. The contraction was driven by a steep decline in exports, with April alone seeing a 24.3% drop.

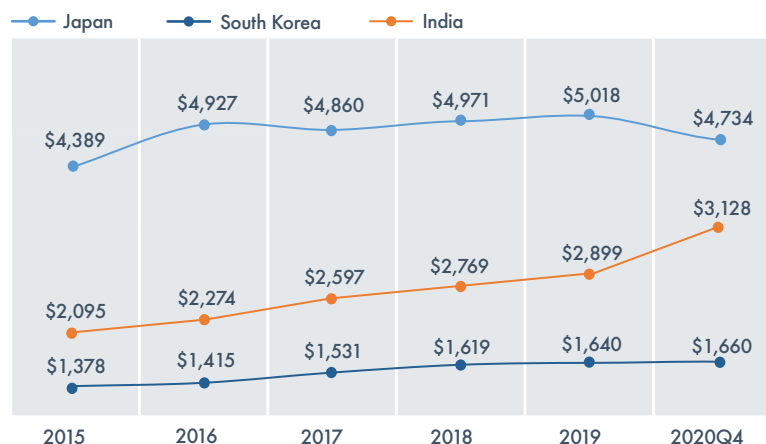
## India

Following a plunge in GDP of 23.9% in Q1 2020, India's economy contracted by 7.1% for the full year. A V shaped recovery began during the third quarter, and is expected to continue into 2021, with the IMF forecasting full year growth of 12.5%.

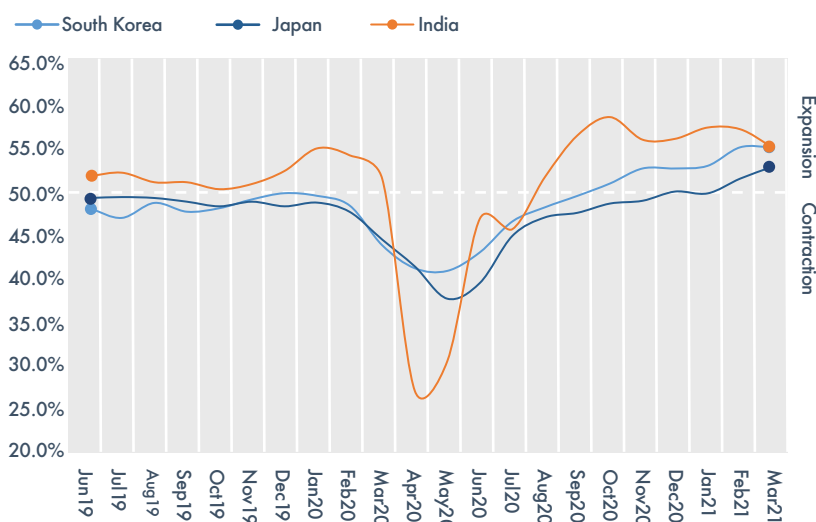
\*Data Source : Trading Economics

\*A reading above 50 indicates an expansion of the manufacturing sector compared to the previous month; below 50 represents a contraction; while 50 indicates no change.

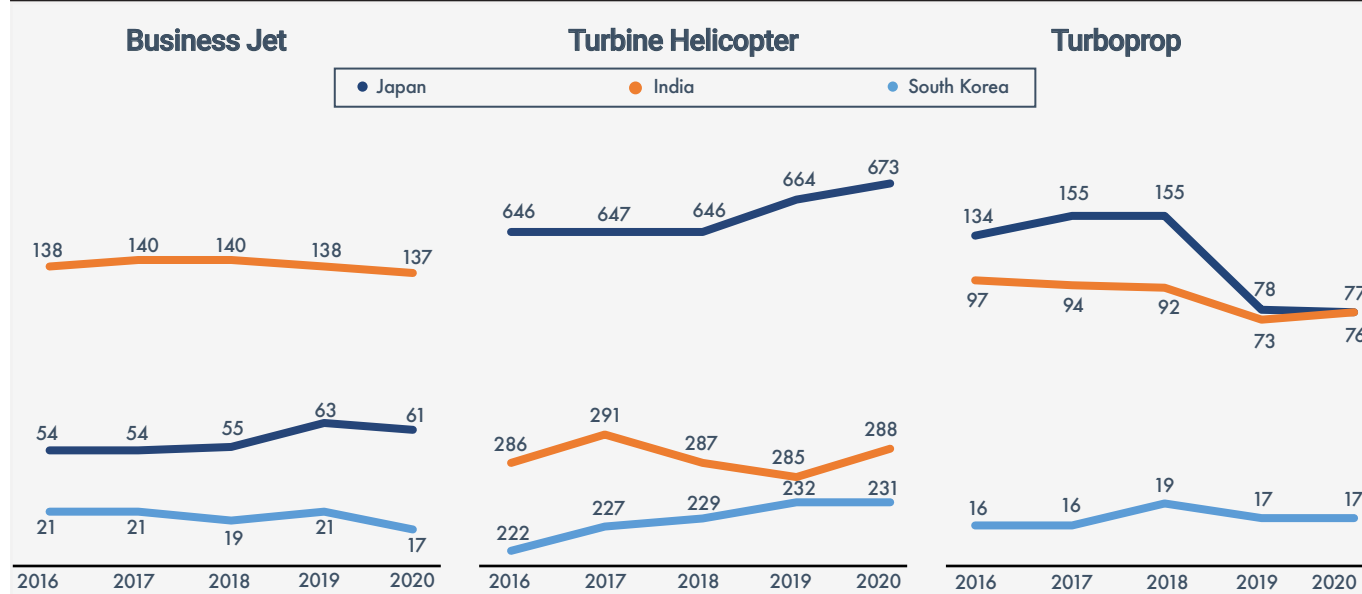
## GDP GROWTH (BILLION USD)



## PURCHASING MANAGER'S INDEX



## FLEET SIZE GROWTH



\* Data Source : ASG's Annual Business Jet Fleet Report and Helicopter Fleet Report. Turboprop data provided by AMSTAT.



# SINO JET

World's Leading Private Jet Company

Staying true to our responsibility as a market leader, Sino Jet has launched SKY BUTLER ELITE TRAINING PROGRAM to promote the development of business aviation

## SKY BUTLER ELITE TRAINING PROGRAM

5P will be gained by the training courses

- Profound knowledge and industry insight
- Premium service skills
- Paths for occupational development
- Professional resources in the field of business jet
- Positive effect in life and career

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Open to all aviation professionals and high-end service practitioners  
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**Sincere /** We actively engage guests and partners with a sincere smile, and always strive to clearly address all concerns.

**Involved /** We understand the market very well and take accountability for the business jet industry.

**Niche /** We will walk the extra mile and provide tailored services to all guests and industry partners.

**Outstanding /** Through the highest safety standards and excellence in service quality, we have become the industry benchmark for excellence and the fastest growing organization.

**Jovial /** We are a committed, dynamic and enthusiastic team.

**Engaged /** We listen to your needs and always endeavor to build.

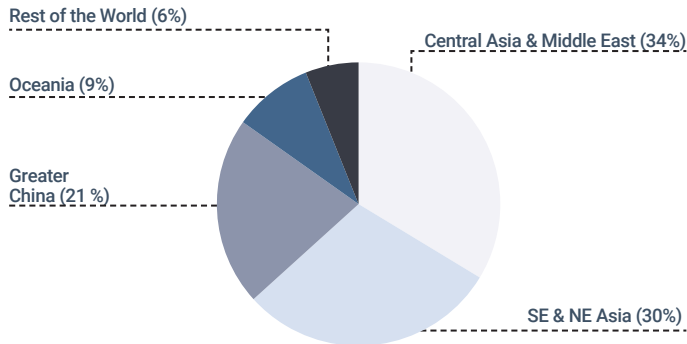
**Trustworthy /** Striving our best to be a company that clients, employees and partners trust.

# MOOD & INTENTIONS

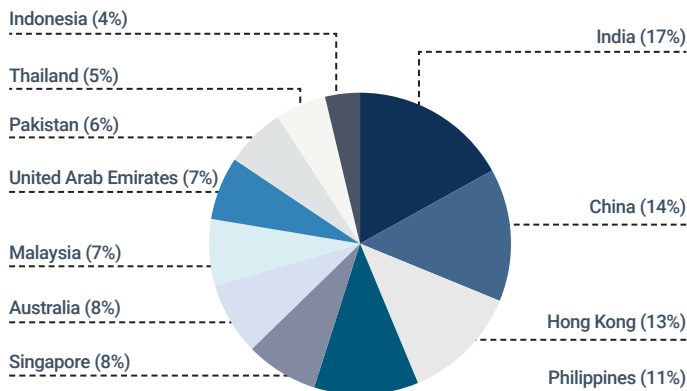
ASIA-PACIFIC SURVEY Q1 2021

## RESPONDENT BREAKDOWN

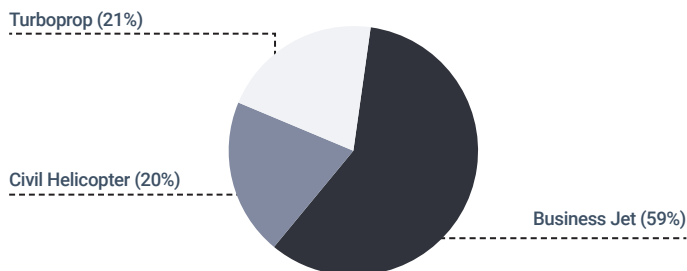
### RESPONDENTS LOCATIONS



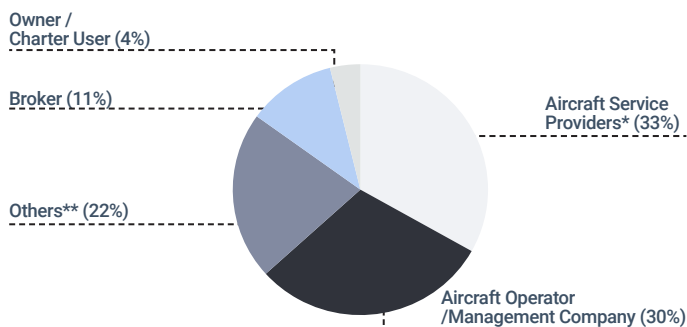
### TOP 10 RESPONDENT'S LOCATIONS



### RESPONDENT AIRCRAFT TYPE



### RESPONDENT CATEGORY



### Results Summary in Q1 2021

1. **Optimism continued to increase in Q1 2021.**
2. **COVID-19 is still having a serious effect on the industry.**
3. **Aircraft utilization continued to show signs of stabilization, with 35% of respondents reporting increased fleet utilization in 21Q1 vs 20Q1.**
4. **Aircraft purchase intention level decreased.**

In Q1 2021 more than 390 business aviation professionals responded to ASG's latest quarterly survey about the mood and intentions in the industry.

The regions with the most respondents include:

1. Central Asia & Middle East (34%, incl. India, Pakistan, UAE etc.)
2. Southeast and Northeast Asia (30%)
3. Greater China (21%)
4. Oceania (9%)

The majority (59%) of the respondents are related to business jets operations.

In total, 63% of the respondents from this quarter's survey are from aircraft service providers (FBO, MRO, etc.) and aircraft operators. This was followed by smaller percentages of aircraft brokers (11%), and aircraft end users (4%). The remainder of the respondents are from other associated areas.

### COVID-19 Pandemic Asia-Pacific

The first quarter of 2021 saw some economic recovery across Asia-Pacific, with an increase in optimism seen across all regions.

The Chinese economic recovery that began in the second quarter of 2020 helped stabilize the pessimistic mood in the region. Overall, Q1 2021 saw the highest level of optimism across all regions since the beginning of the pandemic.

\* Aircraft Service Providers include: financial services, training, FBO, ground handlers, Service, MRO, parts, etc.

\*\* Others include law firms, research facilities and government officials



The highlights of this quarter's COVID-19 responses included:

- The number of respondents saying their business had been "Seriously Affected" continued to decrease.
- Domestic business continues to recover and perform better than the overseas segment.

However, when asked about the market bouncing back, a higher percentage of respondents (44%) in this quarter believe that market demand will not bounce back in the first half of 2021.

As in the previous quarter, we believe this could be viewed as companies readjusting their business goals, and having lower expectations in the current economic cycle.

## Aircraft Utilization

In Q1 2021, data from German business aviation consultancy WingX Advance, shows signs that flights have begun to return to 2019 levels, with a 66% year-on-year increase in March.

This was driven by an increase in domestic flying within mainland China & India, which in March alone saw huge year-on-year increases in flight activities equivalent to a rate of 225% and 102%, respectively.

Respondents across all regions said that their flight activity had increased, yet there remains a high proportion that say that their flight activities have decreased.

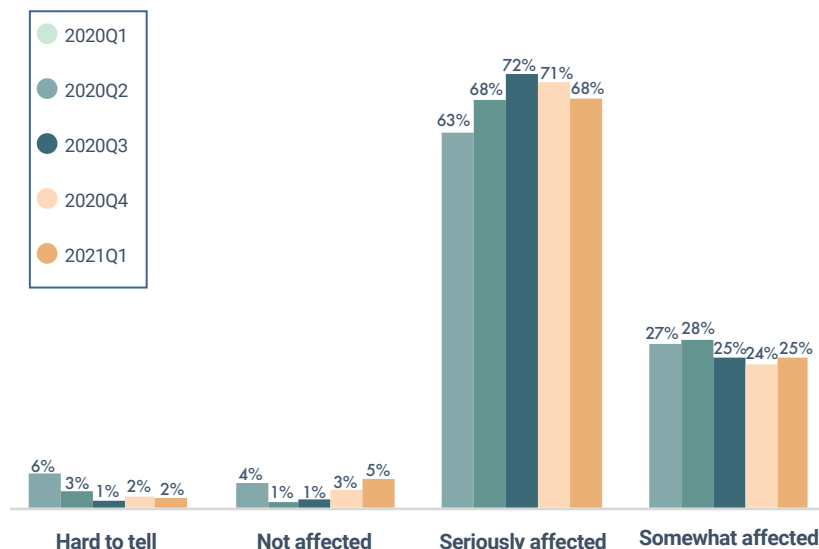
## Purchase Intentions

The first quarter of 2021 also saw a slight decrease in the purchase intentions of respondents, with 44.4% saying that they would now be willing to purchase an aircraft – less than 1% change when compared to the previous quarter.

After the pre-owned market had a dynamic December which saw record levels of transactions, we saw an increased portion of respondents (mainly brokers) believing we are now seeing a balanced market in general, where supply and demand are at similar levels.

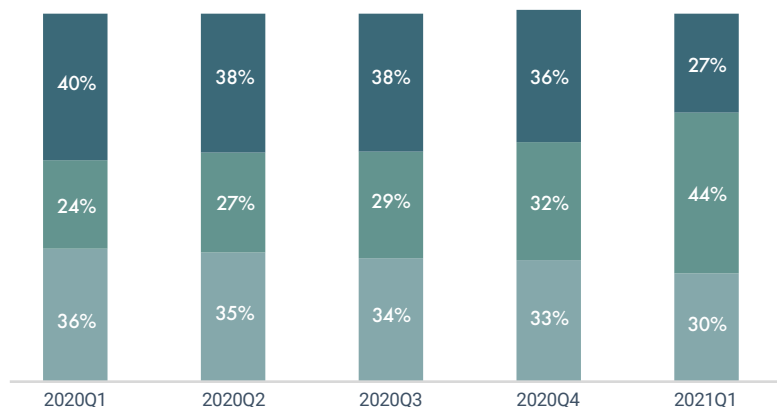
# COVID-19 IMPACT IN ASIA-PACIFIC

● Has the COVID-19 outbreak affected you or your organization's business so far?

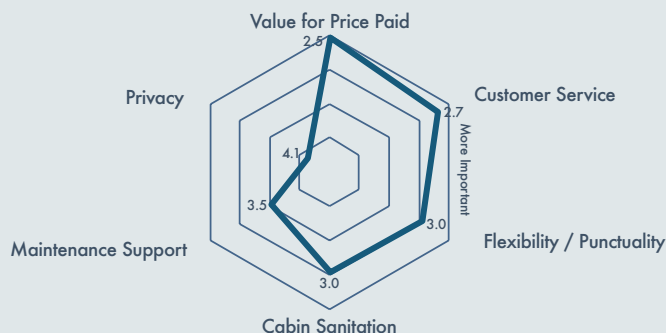


● Do you foresee market demand bouncing back in the 2nd half-year of 2020/1st half year of 2021?

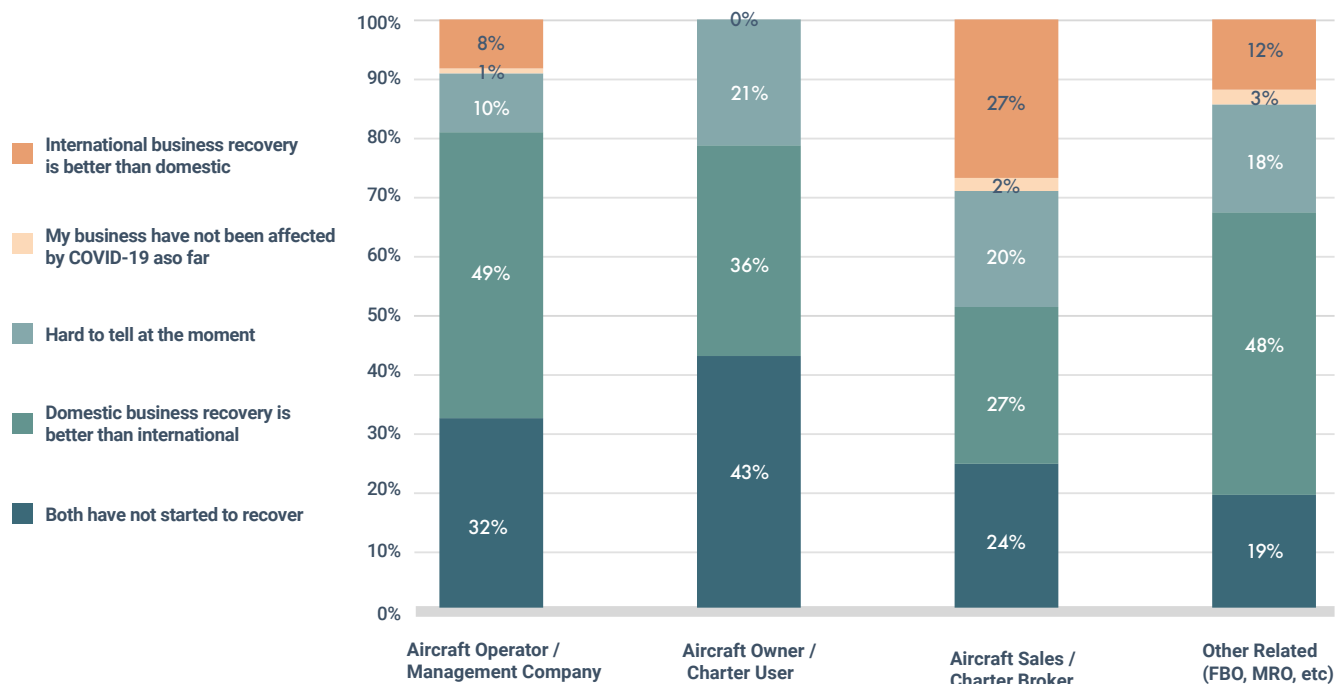
● Hard to tell at the moment ● No ● Yes



● Rank the following factors that you think are critical to the future of business aviation / general aviation (the lower the better):



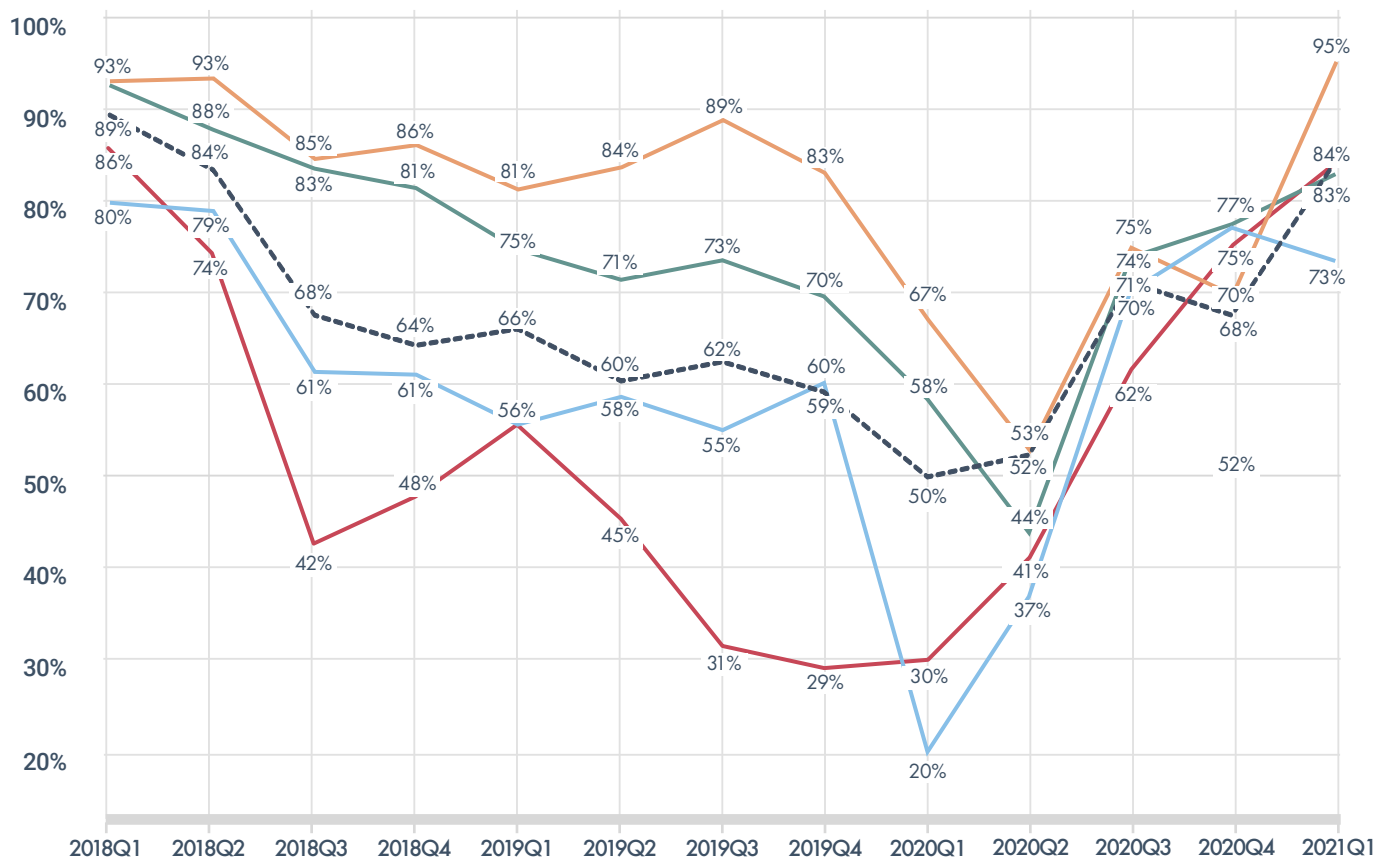
**In terms of your current level of business recovery, how does your domestic business volume compare to your international business volume:**



## ECONOMIC STATUS

**Optimism Levels Since 2018Q1 - Regional Differences\***

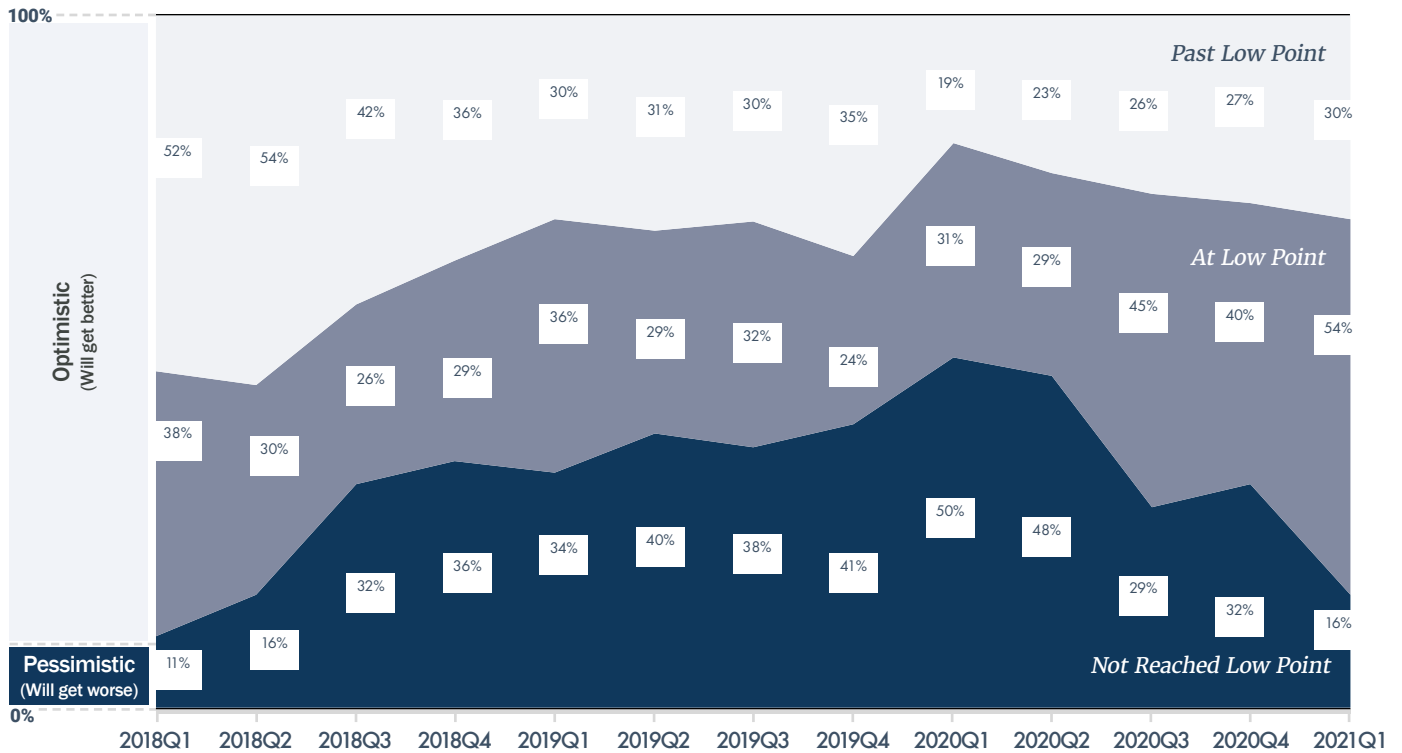
Greater China Central Asia & Middle East SE & NE Asia Oceania Overall



\* Since 2021 Q1, the responses have been reorganized based on submitted time.



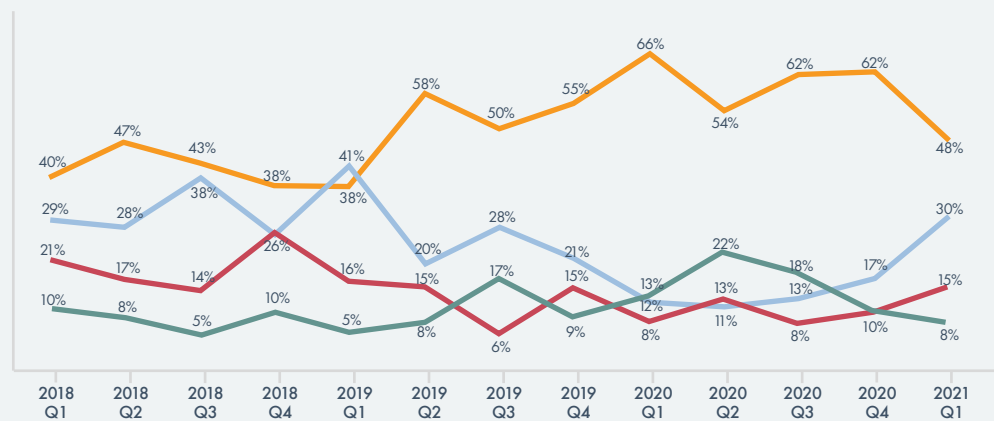
## What is the current economic status? (Quarterly comparison)



## PURCHASE INTENTION

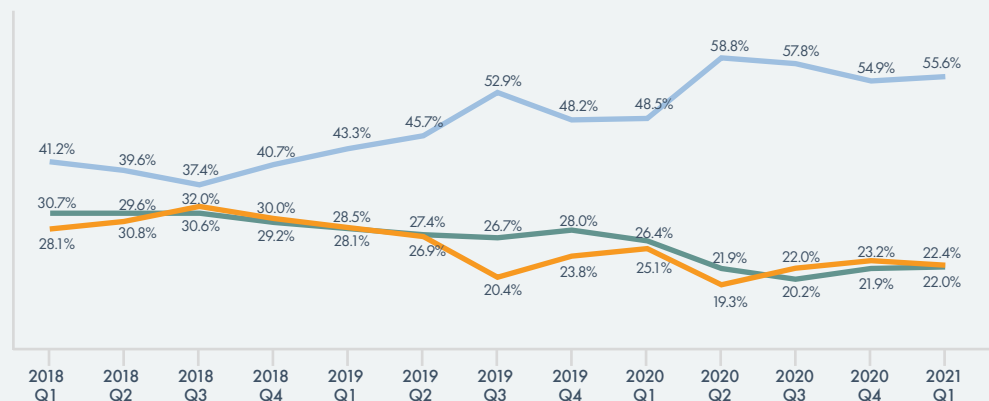
### Where are we in the current pre-owned market?

- Buyer's Market
- Balanced Market
- Seller's Market
- I'm not sure

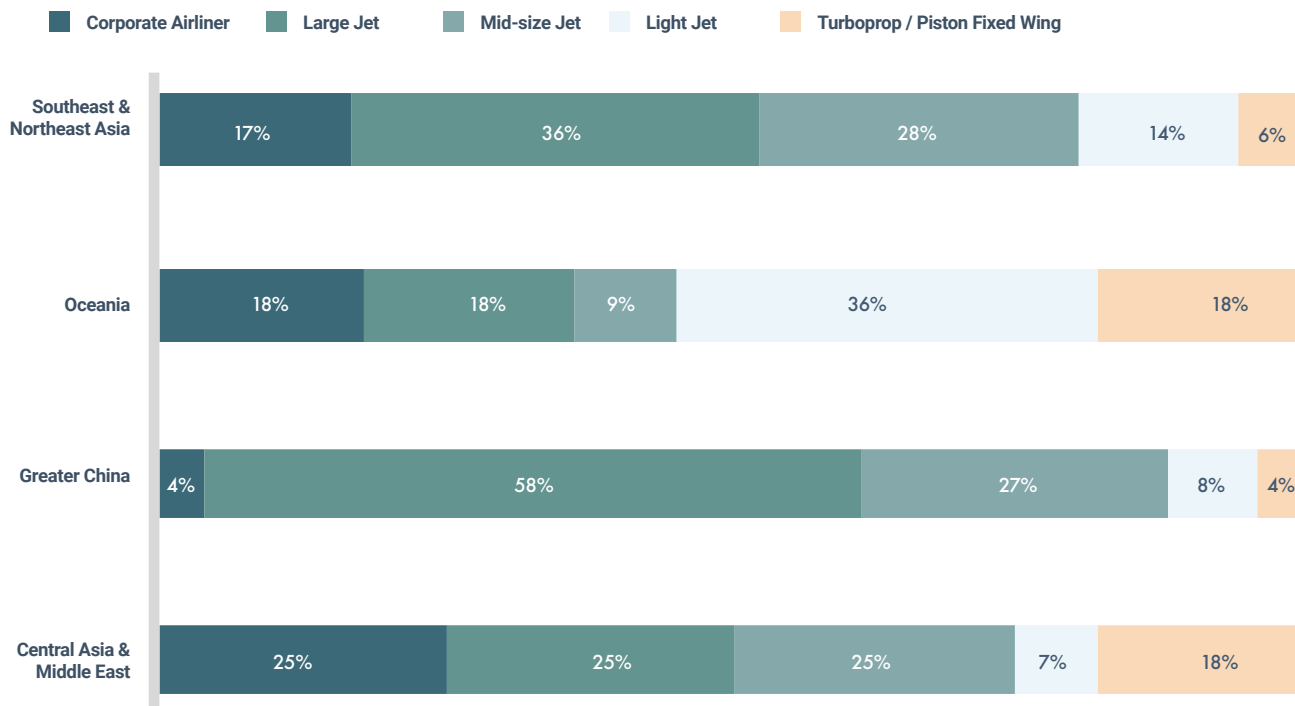


### Purchase Intention 2018Q1 - 2021Q1

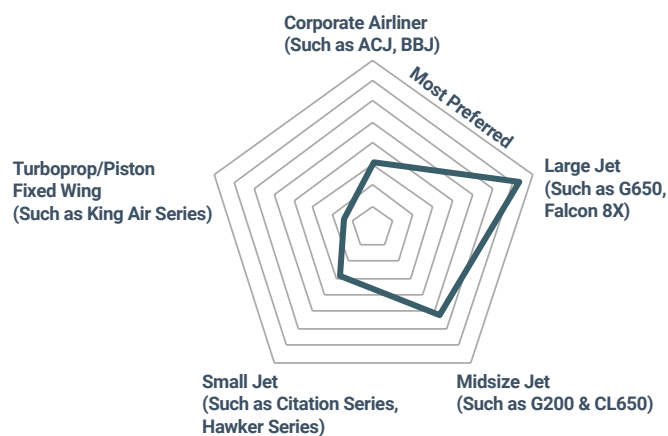
- Yes, a new aircraft
- Yes, a pre-owned aircraft
- No/I'm not sure



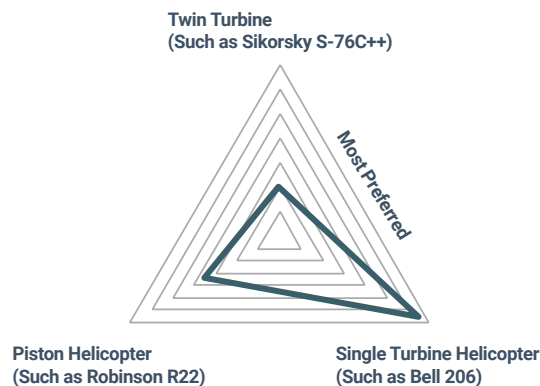
## Regional Differences (Fixed Wing)



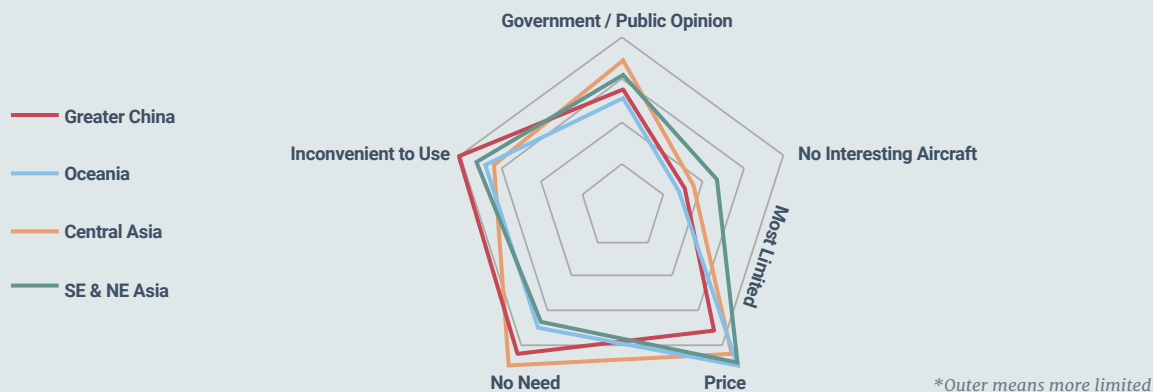
### Purchase Intention - Fixed Wing



### Purchase Intention - Helicopters



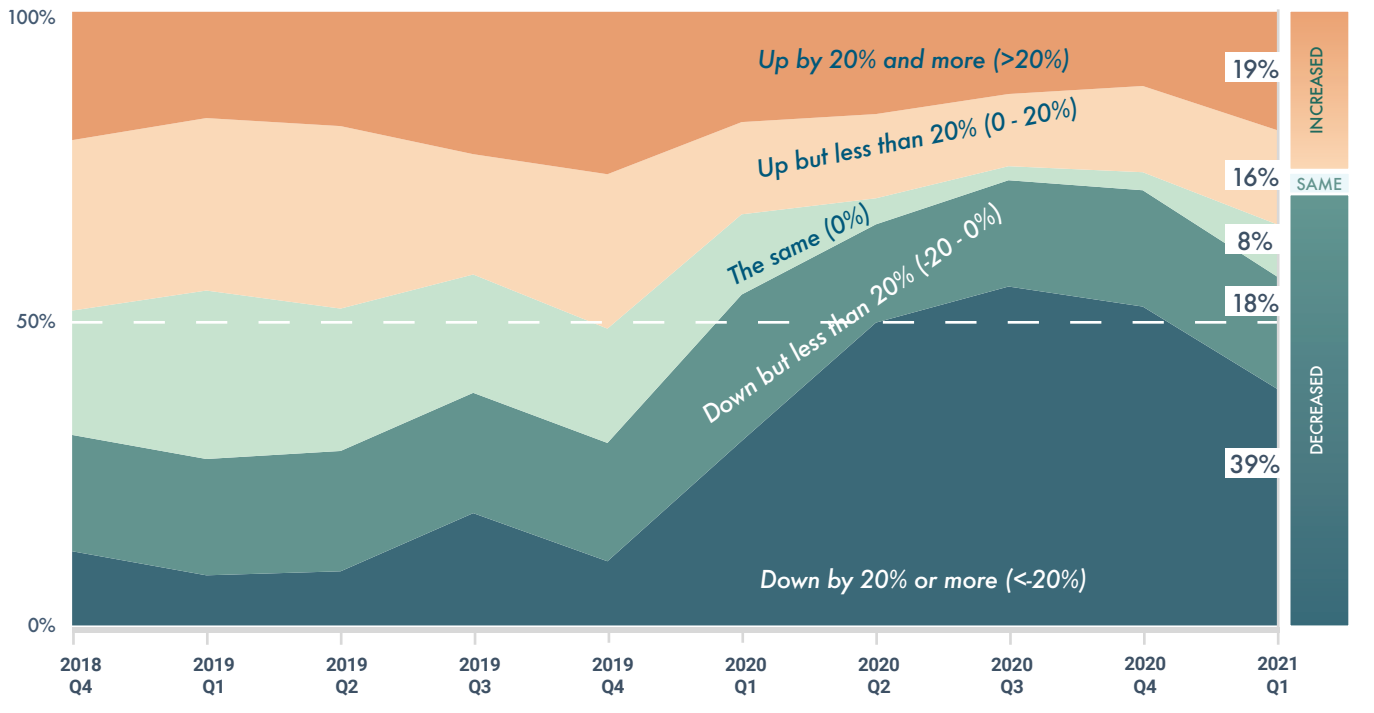
## Purchase Decisions - Influencing Factors\*





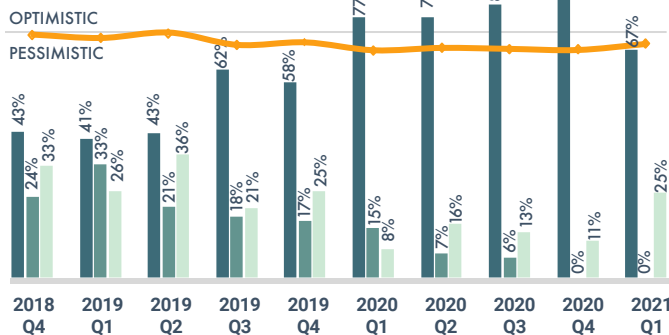
# FLEET UTILIZATION

## Summary : Aircraft Utilization Changes In Past 2 Years

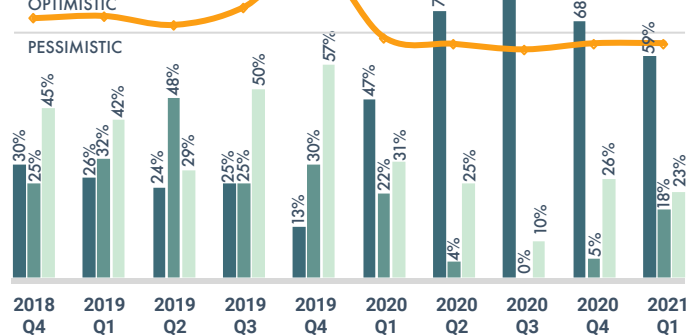


● Decreased ● The Same ● Increased — Signal Line\*

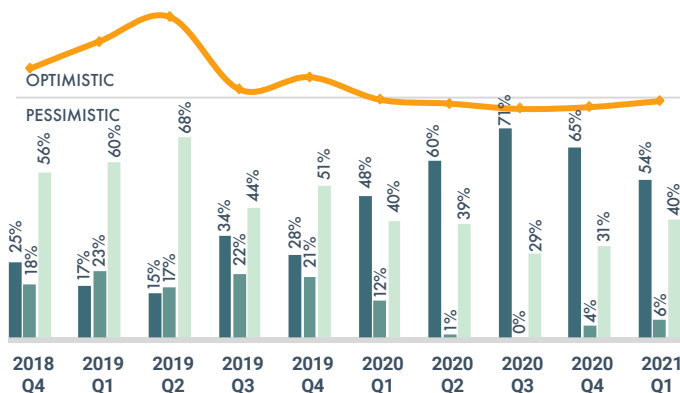
### Greater China



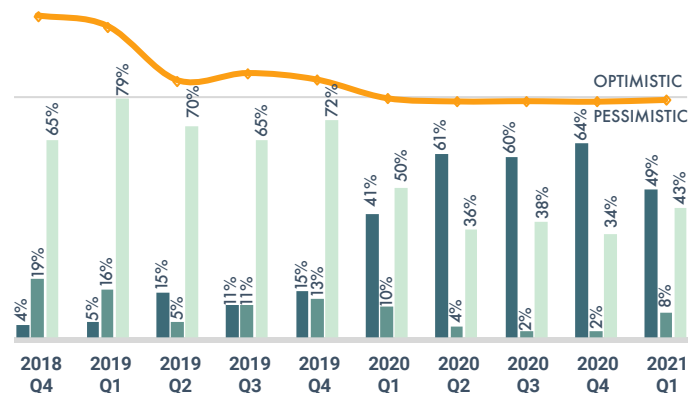
### Oceania



### Southeast & Northeast Asia



### Central Asia & Middle East



\* An Optimistic-Pessimistic Signal Line has been added to regional usage trend analyses for Greater China, Oceania and South and East Asia regions. An optimistic mood is derived from more people indicating 'higher' aircraft utilization compared with 12 months ago, while a pessimistic mood is derived from more people indicating 'lower' aircraft utilization compared with 12 months ago.



## DEFAULTS, RECOVERIES & OPPORTUNITIES IN BUSINESS AVIATION

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**T**he unprecedented economic crisis caused by the coronavirus pandemic has led to a dramatic increase in global corporate and individual defaults and debts. Aircraft repossessions, lawsuits for breach of contract, petitions for winding up companies and bankrupting individuals have all risen.

For some organisations it has also revealed underlying weaknesses relating to how they conduct appropriate due diligence of borrowers both before and after financing/loans have been agreed, their approach to legal and contractual risk management and managing pre-existing, pre COVID-19 debts, in addition to new debts.

Many of the pandemic's anticipated consequences have arisen. Travel restrictions reduced flight operations. This in turn reduced sentiment among many market participants for new acquisitions and new loans or financings, whilst at the same time causing other existing participants to seek additional liquidity and new entrants to seek jet financing for the first time. In many countries, the ability to complete sale and purchase transactions have been impacted. Buyers have been unable to visit and inspect aircraft, whether at an aircraft manufacturer's showroom or a maintenance facility. It has also been difficult to source parts. Some aircraft registries have been working at reduced capacity, impacting the processing of documents. In addition, many aircraft owners have been focussing on challenges to their businesses, some on survival itself and therefore have sought to release equity in aircraft.

In this article we consider some areas where owner/borrower defaults may affect their banks/financiers and aircraft managers/operators. We discuss certain recovery considerations and restrictions, and we identify some of the process risks facing new entrants and borrowers in the present pandemic circumstances.

## Existing Transactions in Pressure Circumstances

### ► Testing Relationships and Contracts

The pandemic has tested the relationships of banks/financiers and aircraft managers/operators in numerous ways, both as between themselves and with their owner/borrower customers. It is not uncommon for defaults to first occur under a management agreement between an operator and the aircraft owner, before the owner/borrower defaults under its financing arrangements. It is also not uncommon for tell-tale problems to surface many months or even years before any action is taken. If the aircraft is financed, then it is likely that a manager/operator will be unable to exercise a lien over the aircraft in competition to the financier. If a default then occurs under the financing, a bank/financier is likely to have to act quickly and repossess and sell the aircraft to protect its interests. It is at this point that relationships and contracts really matter. Banks/financiers need the help of managers/operators to locate and safeguard the aircraft, whether to exercise self-help remedies or to enforce court orders. Managers and operators, who may well be owed substantial management fees and costs by then, will not want to be required to incur further costs without pay.

Upon the occurrence of a default situation, most banks/financiers and managers/operators will typically review the legal requirements of the transaction documentation governing their relationships. Common contractual clauses which are typically relevant in these circumstances include provisions governing:

(i) the extent to which the parties are required or permitted to provide and exchange information concerning other parties (particularly the owner/borrower), the aircraft and the circumstances of the default;

(ii) whether, and to what extent, a party must either

(a) coordinate their proposed actions with another party, or

(b) follow the instructions of another party to take particular actions;

(iii) whether any fees, costs or expenses (collectively referred to here simply as 'costs') of a party are recoverable in circumstances where the owner/borrower does not pay. There are usually multiple aspects to consider and analyse regarding these provisions, including:

(a) the type of costs incurred (for example, if the costs are incurred by a manager/operator, whether they are aircraft-related costs or service-related costs, and whether different types of costs are treated differently under the documentation);

(b) if they are costs incurred by a party at the direction of another party and whether that (or another) party is responsible for those costs; and

(c) what time period the costs apply to (for example, before or after the relevant default), and whether any indemnities or other costs provisions cover those costs over that time period;

(iv) if a party is permitted or restricted from taking legal proceedings against any other party; and

(v) if a party has any right to terminate or suspend any of the transaction contracts or arrangements (including under their own contracts and those of other parties) and the ability of other parties to do so.

When reviewed in the context of a particular default and the practical circumstances existing at that time, some parties may find the legal requirements of the documentation are at odds with their preferred way to manage or resolve the situation. They will need to proceed carefully to ensure they maximise their own best interests, whilst protecting their commercial relationships and complying with their own contractual obligations.



### ► Defaults and Recovery Actions

Tensions commonly escalate due to default situations being handled by some parties differently in practice from how the transaction documentation anticipated it would be handled. This divergence is not surprising, bearing in mind that the documentation was probably agreed in a different practical context – i.e., at a time when there were no problems and when banks/financiers and managers/operators may have had an idealistic view that problems would be handled in a fully transparent and cooperative manner as between themselves. It is not uncommon for parties to have loosely assumed at the time of entering a transaction that, if problems did arise, then there would be

(i) a free flow of 'perfect information' between the parties,



(ii) each party would in fact monitor, assess and understand the implications of that information,

(iii) each party would act appropriately on that information to resolve the situation in a quick and efficient manner.

However, in practice, there is often a limited flow of information which is not assessed, or the implications quickly understood by all parties, and in many cases effective action is not taken quickly.

To avoid common pressure points getting worse in a default situation, it is fundamental that parties

(i) review and consider their documentation immediately,

(ii) plan in advance how to best protect and maximise their interests,

(iii) take action quickly to secure the best results. Of course, steps could also have been taken prior to the commencement of a relationship to have a contingency plan in place.

No two cases of recovery are exactly alike. There are many considerations including the age and value of the debt, the duration of the commercial relationship, the geographical location of the debtor, any guarantor, the aircraft (where it is ordinarily based and where it frequently visits) and any other assets, and what legal rights and remedies the financier, borrower and third parties may have outside the documentation.

Many common law jurisdictions recognise a financier's right to take possession of an aircraft without the need for a Court order, provided that the relevant rights have arisen and the requirements in the finance documents for notices are fully observed. In some jurisdictions self-help remedies constitute unlawful interference with property and judicial involvement is required before any steps can be taken. Even where self-help remedies are lawful, it may be advisable to obtain a judicial order restraining the aircraft from leaving the jurisdiction to guard against the risk of later claims of unlawful interference from the borrower or lessee. A judicial order will also assist in demonstrating to any third party, such as airport authorities, an operator or manager, that the financier's right to seize the aircraft has arisen. However, even if a financier is able to repossess an aircraft and sell it, the sale proceeds may be insufficient to cover a loan.

It is critical to not leave debts to lie under the carpet or to fester for too long. As we have seen, many of the recoveries today involve debts that began to arise several years before the commencement of COVID-19. The longer a debt is left, the more likely there will be dissipating assets and the emergence of oth-



er creditors with competing interests. In the context of aviation, those creditors will include national aviation authorities, air traffic bureaus and airports who often have superior rights. Securing the release of an aircraft from a statutory lien can be problematic, particularly if banks/financiers are unwilling to settle the debts owed by an operator or borrower.

The reality is that many banks/financiers are now in a position where their best hope of a recovery is to petition for the winding up or bankruptcy of borrowers or guarantors, who may be companies or individuals. Increasingly, banks/financiers are having to join in with other creditors who have already taken such action. It is at this point that the prospects of a successful recovery are less certain. Had they taken action much earlier they would have stood a much better chance of recovering the debts owed.

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## New Transactions in Pressure Circumstances

As mentioned above, whilst the pandemic is causing stress within existing transactions it is also creating opportunities for new transactions. For example, sale and purchase transactions continue, and financing transactions are being supported for both existing industry participants seeking additional liquidity and for new entrants seeking jet financing for the first time.

There are additional challenges in completing corporate and private aircraft transactions during the pandemic, many of which are process-driven challenges relating to physical access to aircraft. In addition, it is even more important than usual for traditional execution and process risks to be considered and managed appropriately during the pandemic to avoid failed transactions or alienating new entrants from the market. For instance, many new entrant principals:

(i) may not understand the scope and potential complexities of what is involved in purchasing or financing aircraft,

(ii) often have existing (and long term) professional advisors who also may not be experienced in aircraft transactions; and

(iii) often under-estimate the personnel resources needed to effectively execute their first aircraft transaction.

Coping with and re-skilling these challenges can be an uphill battle, particularly in circumstances where one or more parties are already desperate to complete the transaction due to other pandemic pressures. Unless a customer has credible and experienced advisors actively supporting and managing their transaction, there is a greater risk a transaction may fail.

Many reputable aircraft brokers, banks/financiers and aircraft managers/operators are very good at dealing with first time aircraft customers and have adapted their services to pandemic circumstances (for example, using real-time and recorded video to replace inspection visits and to offer new entrants professional support and educational materials). Likewise, many other professional advisors such as lawyers, tax and technical advisors are tailoring their services to handle new transactions in the pandemic circumstances.

## Reflection and Opportunity

For many organisations, the pandemic has provided an opportunity to reflect on the due diligence which they conducted on borrowers and guarantors before they entered into transactions and how they monitor transactions on an ongoing basis. The pandemic is also causing organisations to review the protection sought contractually and through contingency planning to either prevent debts arising in the first place or to make it easier to recover them when the best opportunities arise. The Aviation Practice at Clyde & Co regularly conducts audits on contracts, advises on contingency planning and recoveries. As Winston Churchill is credited with first saying, "Never let a good crisis go to waste." Have you?

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## INTERVIEW: SINO JET

### ROSELLE WONG, DIRECTOR OF SERVICE DELIVERY

*Ms. Roselle Wong is the Director of Service Delivery at Sino Jet, responsible for formulating internal training standards, cabin services and management. She is also the chairperson of the Flight Attendant Committee for the Beijing Business Aviation Association (BBAA). She was awarded the “Best Individual Award for Business Aviation Promotion of the year” in the Golden Wing Awards, which is the most influential award ceremony in China business aviation. Roselle has 15 years’ experience in luxury service management.*

## **S**ino Jet had a great 2020, has that momentum continued into 2021?

According to our past flight activity data (Q1 in 2019 & 2020), we expect significant growth in 2021. Within the first three months of 2021, the number of flights increased about 70% over 2020, and were 60% higher than in 2019. At the same time, flight hours have increased by 20% and 40% when compared to 2020 and 2019, respectively.

As the pandemic has been under control in China, we have seen a dramatic growth in demand for our business jet services. This proves Sino Jet’s strength in delivering the highest service standard and efficiency that is essential to cater to market needs.



During this period, we noticed that customers are becoming more rational towards the use of business jets. They are no longer viewed as a luxury toy but an efficient, safe, and secure transportation tool that acts as a time machine to help achieve greater business success.

## **What measures has Sino Jet put in place to combat the spread of COVID-19?**

We take three factors in consideration:

- The personal safety of front-line employees, such as flight crew, cabin crew and engineers.
- The personal safety of the staff back in the office.
- The safety of our customers.

Employees are the company’s most valuable assets and the foundation of our operations. Sino Jet continuously improves and adjusts its approach to the ever-changing logistical challenges of the times, provides pandemic education, and risk management training. We also offer anti-pandemic materials and conduct real-time health status management to protect the safety of our colleagues and to ensure that we have the manpower and personnel support for flight



operations. We closely manage our passengers travel history, as well as their upcoming trip requests, to ensure their smooth travel in and out of various countries, especially with fluctuating policies regarding COVID-19. With this information we can provide travel suggestions based on the destination's risk assessment status and pandemic prevention policies.



***To make it clear, safety is our number one priority. To manage risks during our operations, we actively communicate with relevant authorities, aircraft manufacturers and safety partners such as MedAire so that we can develop higher standards and cohesion within our departments such as cabin services, flight operations, and engineering.***



The Cabin Services Department has developed a Standard Operating Procedure to maintain the hygiene of aircraft, with an emphasis on prevention. Our team will disinfect aircraft prior to departure, during flight, and after landing. Before operation, the corporate flight attendant will select reliable catering service providers that offer contactless delivery. The mindset of prevention is included in all aspects of our operation.

***You were personally part of a team that delivered a brand-new Bombardier Global 6500 on the first day of 2021. Can you talk through how that process is different under a pandemic?***

Certainly, the new aircraft was delivered last December at Bombardier's Montreal headquarters. We made the inaugural flight on the first day of this year - was very exciting news and represented a good start to 2021.

We would like to thank our customers for their trust in our values and our services. As you know, it is very difficult to coordinate aircraft deliveries overseas during the COVID-19 pandemic. Over the years we have earned extensive experience delivering aircraft from North America, and with that knowledge, our client relations management team, flight operations, and quality assurance departments have developed a comprehensive delivery plan that considers different scenarios. I

represented the Cabin Services Department during the delivery and traveled to Canada along with my colleagues from maintenance and flight operations. The full support of our senior management and Bombardier allowed the aircraft to successfully enter into service in the shortest possible time, meeting and exceeding the travel needs of the client.

Throughout the project, our team showed dedication, flexibility, and professionalism. We were driven by our mission of providing safe, secure air travel for our clients. In the face of difficulties everyone rallied together, injected their individual expertise, and came up with solutions to satisfy demands. It is very touching to see our team's hard work, sacrifices, and dedication to both the client and to Sinojet.

We hope to grow the fleet steadily and show more customers 'our competence, character, and unwavering commitment to the job at hand.

***In the past few months, Sino Jet has held several Sky Butler Training Courses. As the company's service and training director, can you please share more information of the course?***

Sino Jet is known as an operator with a very high safety and service standard. To foster industry development, we initiated and set up a Private Jet Flight Attendant Committee within the Beijing Business Aviation Association. As the chairperson, my goal was for the committee to accelerate knowledge sharing, case studies and field trips concerning service skills, service standards, cabin safety, crew resources management and aircraft supplies etc. Meanwhile, our mission is to provide a bridge between Chinese operators and the government to ensure a premium service concept, enhance service quality, create channels for sharing resources within the industry and move the business aviation industry forward.

We have come to realize that our industry is suffering from a shortage of talent. We wish to utilize our strengths and resources to nurture future aviation professionals. Therefore, we set up the "Sky But-





ler Elite Training Program” to recruit potential candidates who wish to pursue their career in the aviation business. We introduce the general status of business aviation development in the world, the service culture in China, aircraft models, seasonal operation skills, cabin layout, luxury food handling, tea art, flower arrangement and wine serving etc. We provide training to candidates that strive to be top tier corporate flight attendants.

Sino Jet provides a platform to arrange job interviews for our candidates. Through a series of professional courses, they can skilfully perform the duties of a corporate flight attendant. Some students become Sino Jet team members, while others begin their career with other operators.

Sino Jet is keen on developing more talents and attract fresh blood into the industry. This is important and necessary to achieve greater success in the industry.

## ***What are the plans and objectives of Sino Jet in 2021?***

China has done a good job containing the spread of the virus and has encouraged members of the public to join the COVID-19 vaccination program. We believe our economy will soon recover. Also, since more people have realized the advantages of business jets, we expect that there will be a new group of users in the near future.

According to National 14th Five Year Plan, the Central Government will support aviation development with various favorable policies. Sino Jet will be well prepared and will seize the whatever opportunities there may be.

Sino Jet's goal is to achieve a sustainable society that helps the industry improve by maintaining the highest safety standards, premium services and gaining trust and respect from clients and industry peers.

[www.sinojet.org](http://www.sinojet.org)







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## INTERVIEW: COMLUX

### DARON DRYER, CEO OF COMLUX COMPLETION



#### **W**hen did the Indianapolis facility open?

Comlux Completion opened in October 2008. I had the opportunity to join the team as one of the first employees back in 2009 when I started as Manager of Mechanical Systems Engineering.

For the past 12 years, we have continuously innovated in the large to very large bizliner segment by engineering luxury into our cabin completions, upgrades and refurbishments.

In 2012 we built a state-of-the-art hanger. Today we have established ourselves as one of the most unique and modern completion & service centers in the world, with a strong focus on Airbus and Boeing aircraft.

Comlux Completion perfectly complements the other divisions of the Comlux Group. Headquartered in Switzerland — Comlux Aviation, specializes in VIP fleet operations, aircraft management and charter services; and Comlux Transactions — dedicated to VIP Aircraft sales and acquisitions. We share the same goal “customer at heart, performance in mind” and we have developed valuable synergies between the different teams.

#### **What services does Comlux Completion Offer?**

Comlux is the only Completion and Service/Warranty Centre that holds both Airbus and Boeing approvals in this hemisphere. As such we offer a full product line of technical services to include:

- **VIP completions**
- **Major modifications or refurbishments**
- **Full maintenance capabilities**
- **In house engineering services (all disciplines on staff)**
- **In house production and fabrication capabilities**
- **Pre-buy inspections**
- **In house interior design support**
- **AOG support**
- **Avionic upgrades**
- **FAA and EASA certification support**

#### **What is the largest aircraft that has been worked on at the facility?**

We have completed a full ACJ330 completion in 2019. We have also performed cabin upgrades for the Comlux 767BBJ SkyLady aircraft.



## **YOU WILL COMPLETE THE FIRST ACJ TWOTWENTY, HOW MUCH PLANNING DOES IT TAKE FOR A NEW AIRCRAFT TYPE?**

The ACJ TwoTwenty program is a full partnership with Airbus ACJ. Comlux Completion is in charge of engineering, building and certifying the future VIP cabin of the first 15 ACJ TwoTwenty's. We have been working together on defining the design and developing innovative engineering solutions for almost two years already. This is a totally new aircraft on the market that requires extensive planning internally, as well as in co-operation with Airbus at every stage of the program. I am extremely proud of the teamwork between our teams and the ones of ACJ, and of all the work that has been accomplished so far. The first aircraft will arrive in Indianapolis by the end of the year and is scheduled to enter completion during 2022.



▲ ACJ220 Modern Lounge

## **How many man hours will it take to complete?**

This is still under development. We are taking the time and care to consider all possible aircraft configurations in advance to ensure that once the program is mature, we can support our objective of eight month down time.

## **What country approvals does the facility have?**

We are an approved 145 repair station for the following countries:

- **FAA (US)**
- **EASA (EU)**
- **Kingdom of Saudi Arabia**
- **Aruba**
- **Bermuda**
- **Brazil**
- **Cayman Islands**
- **Kazakhstan**
- **Korea**

These are current approvals; others can be obtained or re-instated as required.

## **How many aircraft can be worked on at the same time?**

Our ultra-modern facility was specifically designed to accommodate multiple VIP completions or maintenance work. The facility houses both on site engineering offices and production fabrication capabilities. Our 157,000sqft/14,600sqm main hangar floor, coupled with an adjacent maintenance hangar, supports either six narrowbody aircraft or four narrowbody aircraft and one widebody aircraft.

## **Are there any plans to expand the facility?**

Opportunities to expand are always under consideration but quality companies expand when there is good reason. "Quality in our business is never about Quantity".

## **Was 2020 busier than normal due to less people flying their aircraft?**

Despite the pandemic, 2020 was a very busy year and that continues to be the case in 2021. We delivered our first ACJ320neo completions, and are currently working on two more, with a third due to arrive in June. We continued our work on the first BBJ max 8 completion ever to be done and are entering Customer Acceptance Phase as we recently obtained the first VIP Interior STC for this aircraft type.

We also welcomed several aircraft for maintenance, refurbishment, and integration of ionisation systems, which aims at purifying the air against bacteria and viruses via the air conditioning system.

## **What is the most outlandish thing you have been asked to do with an interior?**

Well, I think everyone has been asked to install a bathtub or Jacuzzi once or twice in their career. However, an interesting challenge we were presented with was to install a full gymnasium with weight machines. We actually accomplished this request and had the entire installation fully certified. So even the toughest challenges can be overcome if you sit down, identify the critical elements, and then innovate to meet the client's expectations.

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



## FALCON 6X FLIGHT TEST PROGRAM GATHERS STEAM ENTRY-INTO-SERVICE PREPARATION ALREADY UNDERWAY

In just under a month following the March 10 first flight of the all-new Falcon 6X, over 50 hours of flights had been completed. The flight envelope was opened to Mach .90 — the aircraft's maximum operating speed. Four pilots have flown the aircraft, and they have collectively concluded that so far, it has the nicest landing characteristics of any Falcon.

Dassault Aviation has reason to celebrate, especially after the challenges of 2020 due to COVID-19. In normal times, meshing a global supply chain for a new aircraft program is challenging. Keeping it on track through work shutdowns, slowdowns and shipping delays has been a major accomplishment for the French aerospace company. Well before the pandemic, Eric Trappier, Dassault Chairman and CEO, promised the 6X would fly in the first quarter of 2021. The company kept that promise with a reportedly flawless first flight.

"At this stage of development, we have an aircraft that is demonstrating system maturity and performing well. All of the testing and simulation

on the ground has really paid off in giving us a robust aircraft for the flight test program." Said Ferry.

Ferry reports that a second, fully instrumented, flight test aircraft will enter the program in a few weeks and that a third aircraft, with a fully functional interior, will enter the program by summer. Amongst the many activities for that plane will be thermal mapping of the interior to ensure proper insulation and excellent temperature control throughout the cabin, as well as sound mapping to adjust noise reduction materials, if necessary. The company expects the aircraft to be at least as quiet as the Falcon 8X, which Dassault says is the quietest business jet flying, with interior sound levels around 48 dB, equivalent to a living room.

Later in the program a fourth aircraft — the first production aircraft, will fly, also with a full interior. It will travel around the world, carrying many passengers who can evaluate all cabin systems, including entertainment systems and Wi-Fi High-speed internet capability through a Ka-band satellite link.



**"The 6X flew exactly as predicted by our models. From a pilot's perspective, it flies like a Falcon, which is to say that it flies with perfect precise handling in all phases of flight, said test pilot Bruno Ferry."**





A seventh fuselage is already on the assembly line and an eighth will be delivered to the factory shortly. Certification is expected within 2022, with deliveries shortly thereafter.

To prepare for global customer operations of the aircraft, the product support organization has been planning and preparing for years and has recently increased its activities. The organization plans to have \$100 million of 6X inventory distributed around the world by entry into service, which is enough to support the first 30 aircraft.

To ensure high reliability from the start, the company has implemented two new programs: Highly Accelerated Stress Screen (HASS), subjecting components to extremes of vibration, temperature and humidity; and Highly Accelerated Life Testing (HALT), a second series of stress tests applied on production units, if necessary.

The 6X is the first business jet with a comprehensive maintenance diagnostic system on board. It is called FalconScan and monitors 100,000 maintenance parameters. It can identify faults and recommend corrective actions, transmitting this information to the ground so that resources can be mobilized before the aircraft lands when time is of the essence. Product Support teams are analyzing FalconScan downloads after each flight and also running simulation exercises with FalconScan data.

The 6X has the latest and most advanced generation of Dassault's digital flight control system (DFCS). Dassault Aviation was the pioneer in introducing digital flight control technology to business aviation—a transfer of military technology from its combat aircraft. The Falcon 7X was the first fly-by-wire Falcon (first flight in 2005), followed by the 8X. In those aircraft, the digital flight control system managed primary controls—ailerons, elevators, rudder. In the 6X, it manages all controls, including the slats, flaps and flaperons.

"The 6X is the latest example of the fusion of military know-how and business aviation expertise for which Dassault Aviation is so respected," commented Trappier. "The new capabilities in efficiency, performance and safety it offers will set a new benchmark in the long-range segment. This airplane will also set a new standard in terms of cabin comfort and spaciousness, as demanded by our customers."

The 6X is breaking new ground on many fronts, including, in the view of leading industrial designers, in terms of interior styling. After winning in September 2020 the International Yacht & Aviation Award for its cabin design, the company recently received the prestigious Red Dot award from a 50-judge panel for the design of the 6X cabin. Previous recipients include Audi, Porsche and Apple.

Dassault emphasizes not only modern lines and clever features, such as a skylight in the usually hard-to-illuminate galley area, but also health features such as a low cabin pressure altitude (1,170 m while cruising at 12,300 m) and filtered air flow in the cabin. Windows are about 10 percent larger than on the flagship Falcon 8X. Thirty of them line the fuselage making the 6X cabin the brightest in business aviation, according to Dassault.

For all of its new features, the 6X is a traditional Falcon in terms of design choices to ensure stable low speed handling, the ability to access short runways, and to fly long distances when taking off from them. As with all Falcons, the 6X has a combination of large flaps and leading edge slats to reconfigure the wing for low approach speeds. In fact, the 6X can fly comfortably at 109 knots on approach, below the typical approach speed of some smaller turboprops, allowing it to routinely use runways of 1,200 m or less.



The 6X is a true widebody business jet. The aircraft has the largest fuselage cross section of any purpose-built business jet. The cabin height is six-feet, six-inches. The three-zone layout can carry up to 16 passengers, although operators will typically fly with a smaller number of for more individual comfort. That will usually be the case on long-range flights. The 6X can fly up to 10,186 km (sufficient range to fly London to Hong Kong, for example) at Mach .80 or 9,445 km at Mach .85.

All of these capabilities will, of course, be extensively tested in the months ahead on a flight test program that by all appearances, are off to a good start.

[www.falcon6X.com](http://www.falcon6X.com)



## THE NEW BATTLEGROUND – ULTRA LONG-RANGE JETS GULFSTREAM G700, GLOBAL 7500 & FALCON 10X

**B**y the end of 2008, the business jet industry had hit its peak. Flight hours were the highest they had ever been, and new aircraft deliveries had hit an all-time high. But having grown rapidly over the course of the preceding years, the industry would be brought back down to earth quickly when the global financial crisis hit. Orders for new airplanes, which had been flowing rapidly just the year before, had not only dried up, but in many cases were completely canceled. Having delivered a total of just over 1,300 new business jets in 2008, 2009 saw just 874 new jet deliveries.

During the next years deliveries would fall further, although not as sharply as in 2009, but within those deliveries something interesting had happened. Suddenly there was a huge polarization in the market, and a new word was heard everywhere from the halls of Bordeaux to the floors of Savannah — bifurcation. Although this new word had many people reaching for their dictionaries, it was the perfect word to describe the market at the time, as it had reached a point that it would split — with very different fortunes for one end of the market versus the opposite end. The Very Light Jet (VLJ) sector, which before the crisis had been riding high on a wave of new aircraft announcements and huge orders, was hit the hardest, with the years following the global financial crisis seeing many of the new aircraft that were announced shelved, and all of the mega orders cancelled.

At the top end of the market however, things were steady. Not spectacular, not booming, just steady. New deliveries were down, as were market values, but not as much as for the smaller jets. The industry never fully recovered from the crisis, at least not in terms of new airplane deliveries. In 2019 — the year before the industry suffered again due to the COVID-19 pandemic, there were just 644 business jet deliveries.

Since the global economic fallout, the big three business jet manufacturers — Bombardier, Dassault and Gulfstream, have been locked in a battle to build the biggest, fastest and farthest flying business jet. And one of their biggest battleground markets is Asia-Pacific where the Ultra-Long Range category represents a third of the fleet and is the highest growing size category. The big dogs wag their tails in Asia.

The current king of range is Bombardier's Global 7500, but only by a mere 200nm. In Asia this 200nm can be lost in a blink of an eye depending on which jurisdictional fuel reserve policy you have to apply i.e., US FAA versus China's CAAC. The Global 7500's range is just a touch above the Gulfstream G650ER and G700s 7,500nm range at 7,700nm. However, much like when Gulfstream introduced the extended range version of the baseline G650, can we expect to see a G700ER announcement several years following the introduction of the G700?

Meanwhile patiently waiting in the wings, waiting for the right time to make an announcement, has been Dassault. The Falcon 6X flew for the first time earlier in the year and has since been joined by a second example in the aircraft's flight test campaign, has the widest cross section of any business jet currently in service. Dassault's design work on the fuselage barrel meant that the redesign from the Falcon 5X to the Falcon 6X could be achieved without having to go back to the drawing board completely. But despite not having to do so, Dassault chose somewhat out of character and therefore unexpectedly to do exactly that for its newest flagship business jet — the Falcon 10X.

With the Falcon 10X now officially launched, the Ultra Long-Range category is now going through what one would have to say is a serious make over. It is probably the first that the Top 3 OEMs have had simultaneously competing new aircraft on the market for buyers to consider.



*Asian Sky Media takes a first look therefore look at the “new” Ultra Long-Range category and compares as best it can the attributes of the Bombardier Global 7500, Gulfstream G700 and Falcon 10X.*

	FALCON 10X	GLOBAL 7500	GULFSTREAM G700
			
Price (USD)	\$75 million	\$73 million	\$75 million
Max Pax	19	19	19
Max Range (nm) @ M0.85	7,500	7,700	7,500
Max Speed (Mach)	0.925	0.925	0.925
Long Range Cruise (Mach)	0.85	0.85	0.85
MTOW (lbs)	115,000	114,850	107,600
Cabin altitude	3,000 ft	4,500 ft	4,850 ft
Cabin Width	2.77 m	2.44 m	2.49 m
Cabin Length	16.7 m	16.61 m	17.35 m
Cabin height	2.03 m	1.88 m	1.91m
Baggage Compartment Volume	5.6 m <sup>3</sup>	5.3 m <sup>3</sup>	5.52 m <sup>3</sup>
Exterior Length	33.4	33.8	33.48
Wingspan	33.6	31.7	31.39
Engines	RR Pearl 10X	GE Passport	RR Pearl 700
Engine Lbf	18,000	18,920	18,250
Avionics Suite	EASy III	Pro Line Fusion	Primus Epic
TO Distance	< 6,000 ft	5,760 ft	6,250 ft
Landing Distance	< 762 m	682 m	762 m
Max operating Altitude (ft)	51,000	51,000	51,000
Entry into service	End of 2025	2018	End of 2022

**As can be seen from the table, the reality is, on paper at least, there is not much difference between the three aircraft. At least not in the headline stats. All three aircraft share the same maximum speed and cruise speed, there is only a 200nm range difference between the three and only a \$2 million between them (at 2021 prices).**



▲ Bombardier Global 7500



▲ Gulfstream G700



▲ Dassault Falcon 10X

Both the Falcon 10X and Gulfstream G700 use derivatives of the new Rolls-Royce Pearl engines, whilst the Global 7500 uses a pair of GE Passport engines. The GE Passport's produce more thrust than the Rolls-Royce engines, however the Pearl 10Xs have a 10-stage compressor, and 4-stage low pressure turbine, which is predicted to reduce fuel burn by 5% over other derivative engines. The engines have already been tested using 100% sustainable aviation fuel (SAF), with Rolls-Royce stating that it is 100% committed to helping SAF become certified for use.

Upfront, each manufacturer has a different vision of a cockpit, with each using an existing avionics suite and then adding its own touches. On the G700, Gulfstream's Symmetry flight deck is based on Honeywell's Primus Epic avionics suite, which is the same as the manufacturer uses on its G500 and G600 business jets. On the Global 7500, Bombardier's Vision Flight Deck, which is based on the Collins Aerospace Pro Line Fusion avionics suite, is an updated version of the flight deck from the Global 6500. Dassault's latest EASy III flight deck that will feature on the Falcon 10X is also based on Honeywell's Primus Epic avionics suite, but Dassault has decided to implement some new features like touch screens, a single Smart Momo Throttle and a Recovery button inherited from its combat proven fighter jets.

All three aircraft use sidestick controls, rather than the traditional yoke type controls that are seen in older generation aircraft. For the G700 these are active, meaning that when the pilot in command moves his stick, the stick of the other pilot mirrors the movement. The Falcon 10X will be flown with its renowned Smart Sidestick already installed on Falcon 7X, Falcon 6X and Falcon 8X, as well as on the Rafale fighter jet and Neurone (Drone). The Global 7500 incorporates a different philosophy with any input on either stick not being mirrored on the other. The philosophies of each OEM continues to differ when it comes to side stick controls. As an example, the Global 7500 and Falcon 10X systems handle all moving surfaces, while the G700 is limited to main surfaces.

The wings are a major element of any aircraft as they sustain the aircraft in flight and permit operational benefits like accessibility to certain airports. In this area the Falcon 10X has distinguishing itself by bringing a first to business Aviation: 100% composite wings, made possible due to Dassault Aviation's design and manufacturing expertise on the Rafale.



▲ Dassault Falcon 10X Cabin Design

But for the passengers in the back, the people most likely to be paying for the aircraft, the big differences are in the cabin, both in the dimensions as well the cabin altitude. These are both very important factors, as many manufacturers and brokers will tell you that it is the cabin that sells the aircraft.

***So, very significantly, it is with the cabin that the Falcon 10X leaps to the forefront. When it comes to cabin height, the Falcon 10X, being just over 2 meters, is another first in business aviation, not including corporate airliners. The same is true when it comes to the cabin width, the Falcon 10X is the widest, at 2.77m, so quite a bit more than its competitors.***

The additional width and height in the 10X cabin will be especially noticeable on longer flights. The Falcon 10X can fly for 7,500nm, which roughly translates to 15 – 16 hours flying time and a wider cabin helps the aircraft feel less claustrophobic during those long hours.

The Falcon 10X also has the lowest cabin altitude of any business jet, not just in the ultra-long-range sector, and by quite a long way at 3,000ft. This means that even when the Falcon 10X is flying at its maximum altitude of 45,000ft, the pressurization inside the cabin is the same as if the aircraft was flying at 3,000ft. This helps keep the pressure on the human body low and reduces stress and the feelings of tiredness and jet lag.

Often in markets it is the first mover that has the advantage, but that is not always the case in business aviation. By taking its time, Dassault has had time to refine the 10X. It has also had time to listen to what its existing customers, and potential new customers, want. They wanted the range, and they wanted the speed, but most of all, they wanted a comfortable cabin so that they could feel at ease for 16 hours. The Falcon 10X delivers on all three, and is worth the wait.

This combined cabin cross section, the total space & aisle distances allow Falcon to introduce new seats, individual seats around the conference table, private suites and even a king size bed amongst many other new features.



# SPECIAL FEATURE

## ASIA-PACIFIC BUSINESS JET FLIGHT ACTIVITY

### 2021 Q1 REVIEW



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WINGX Data Source: ADSB and ATC

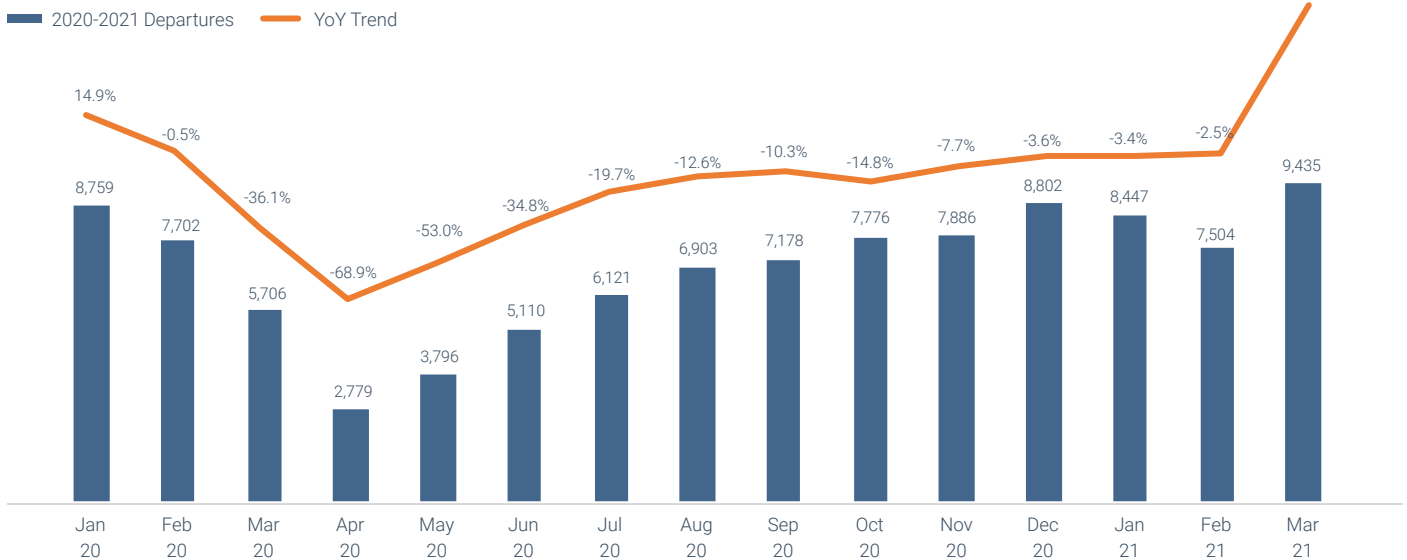
DATA BY **WINGX**



According to data from German business aviation consultancy WingX Advance, the total number of business aviation flights departing from Asia-Pacific between January 2020 and March 2021 was 103,904 – a 12.5% drop when compared to January 2019 to March 2020. The decline in flight activity is due to restrictions put in place by governments around the world to try and slow the spread of COVID-19.

Flight activities in the first two months of 2021 were slightly lower than in the same period in 2019; however, the number of departures in March 2021 was 9,435 – 65.7% more than in March 2020. The drastic growth in March 2021 indicated that flight activity is gradually recovering to pre-pandemic levels.

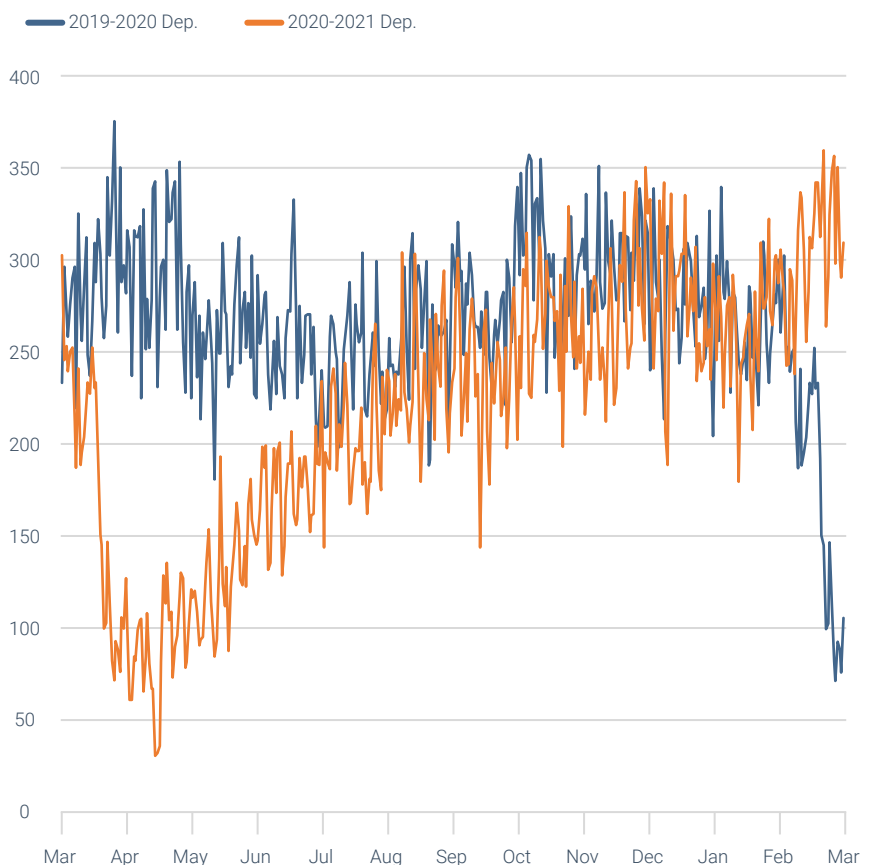
## FLIGHTS DEPARTING APAC



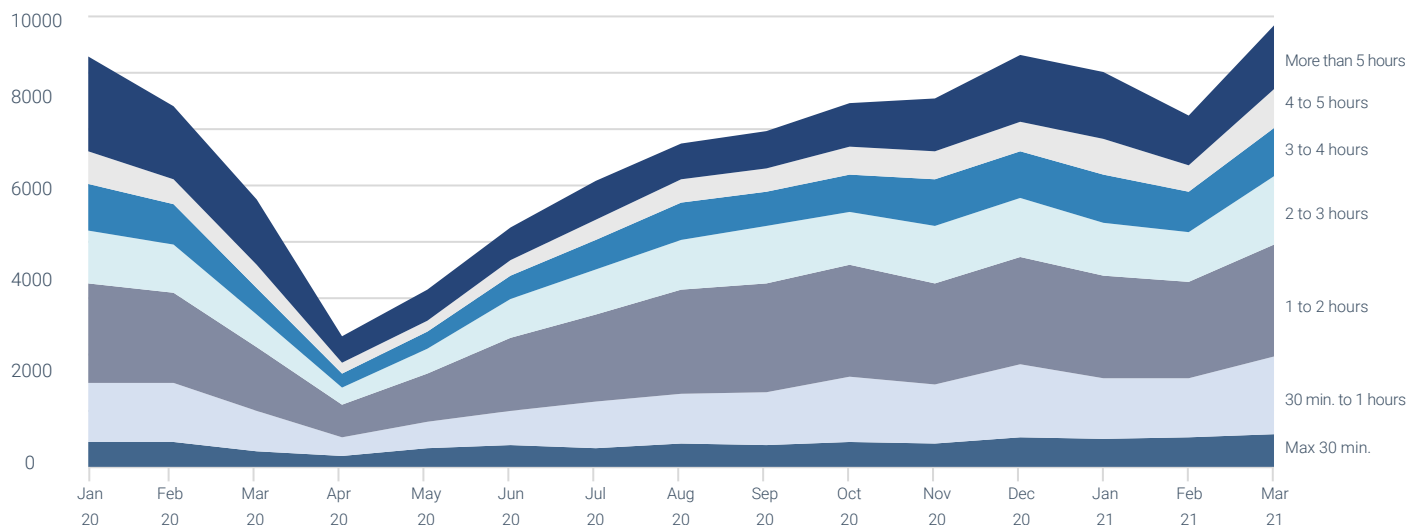
Aside from mainland China and India, which saw increases of 13% and 3% respectively, all other countries saw decreased flight activities, albeit to different extents. Singapore, still the country that's flight activity has been the most impacted by the COVID-19 pandemic, saw a year-on-year drop of 52%. Overall, flight activity began to rebound in May 2020, with a continuous upward trend until the first quarter of 2021.

REGION	DEP. FLIGHTS	YOY TREND
Mainland China	11470	13%
India	10445	3%
Japan	4661	-30%
Malaysia	3189	-16%
Thailand	2774	-16%
Hong Kong	2595	-32%
Singapore	1938	-52%

## DEPARTURES BY MONTH - 2019 VS. 2020



## FLIGHT DURATION: 2020-2021

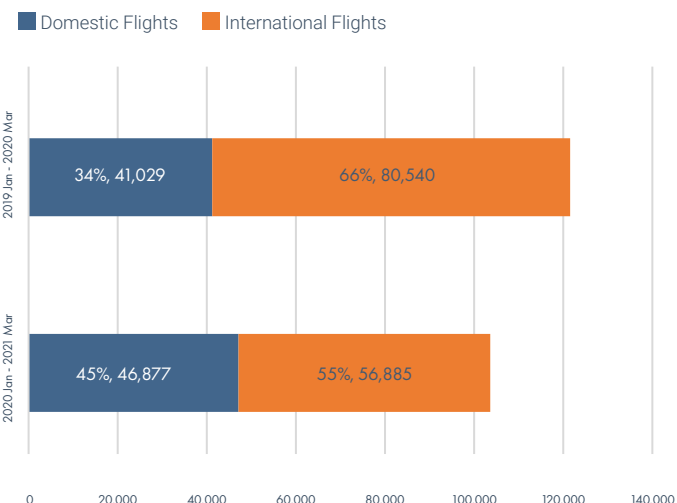


During the first quarter of 2021, long-haul flights were still impacted by the COVID-19 pandemic, although flights lasting for less than three hours had recovered to similar levels to those before it began. Despite the initial shock to the industry, by March 2021 flight activity had begun to surpass pre-pandemic levels.

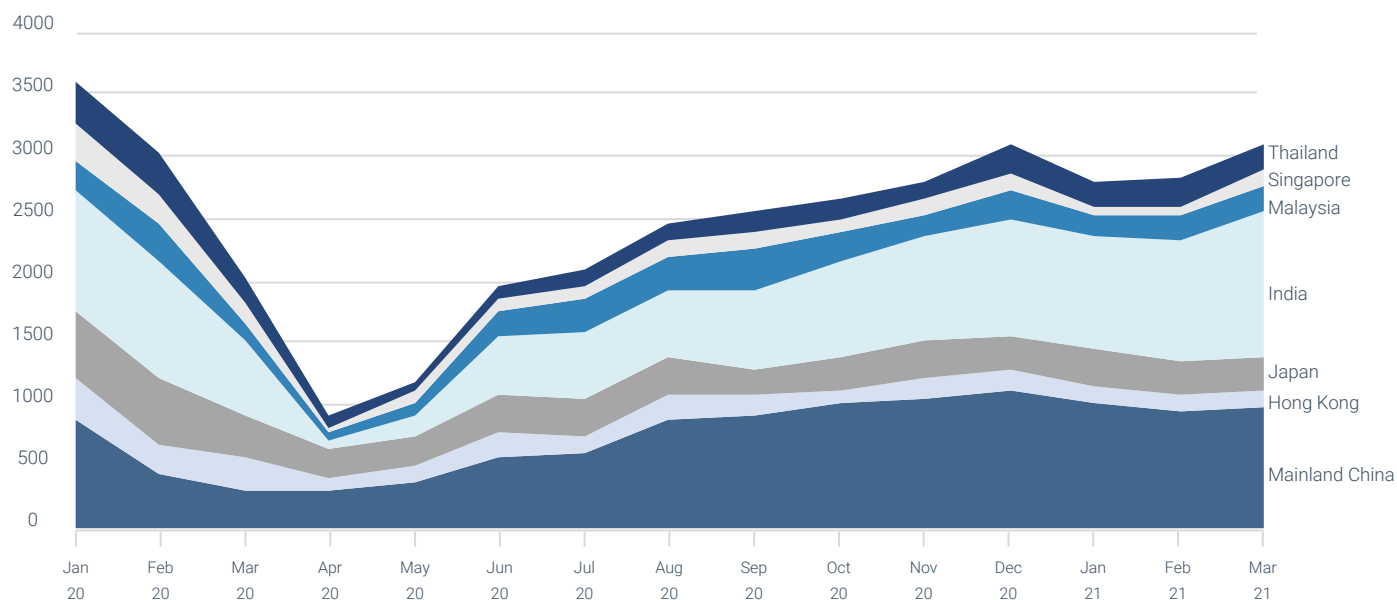
After the outbreak of COVID-19, domestic flights gradually became more dominant than international flights in Asia-Pacific. Overall, domestic flights accounted for 45% of total flight activities during the period from January 2020 to March 2021, compared to only 34% of flights between January 2019 and March 2020.

The graph shows that flight activity in mainland China and India have already recovered from the COVID-19 pandemic. However, the other regions are still trying to recover. During the first quarter of 2021, Japan, Malaysia and Thailand were on their way to rebounding, whilst Hong Kong and Singapore were still struggling.

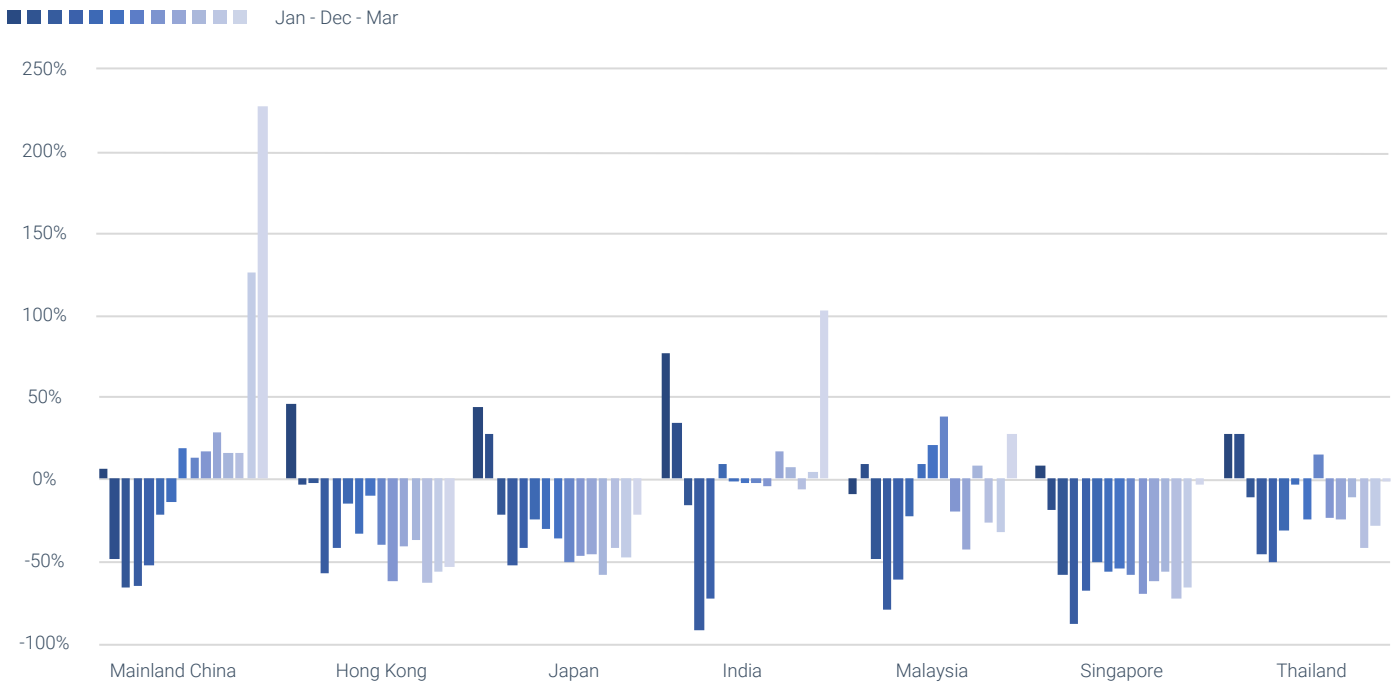
## INTERNATIONAL VS. DOMESTIC FLIGHTS



## FLIGHT ACTIVITY: 2020-2021



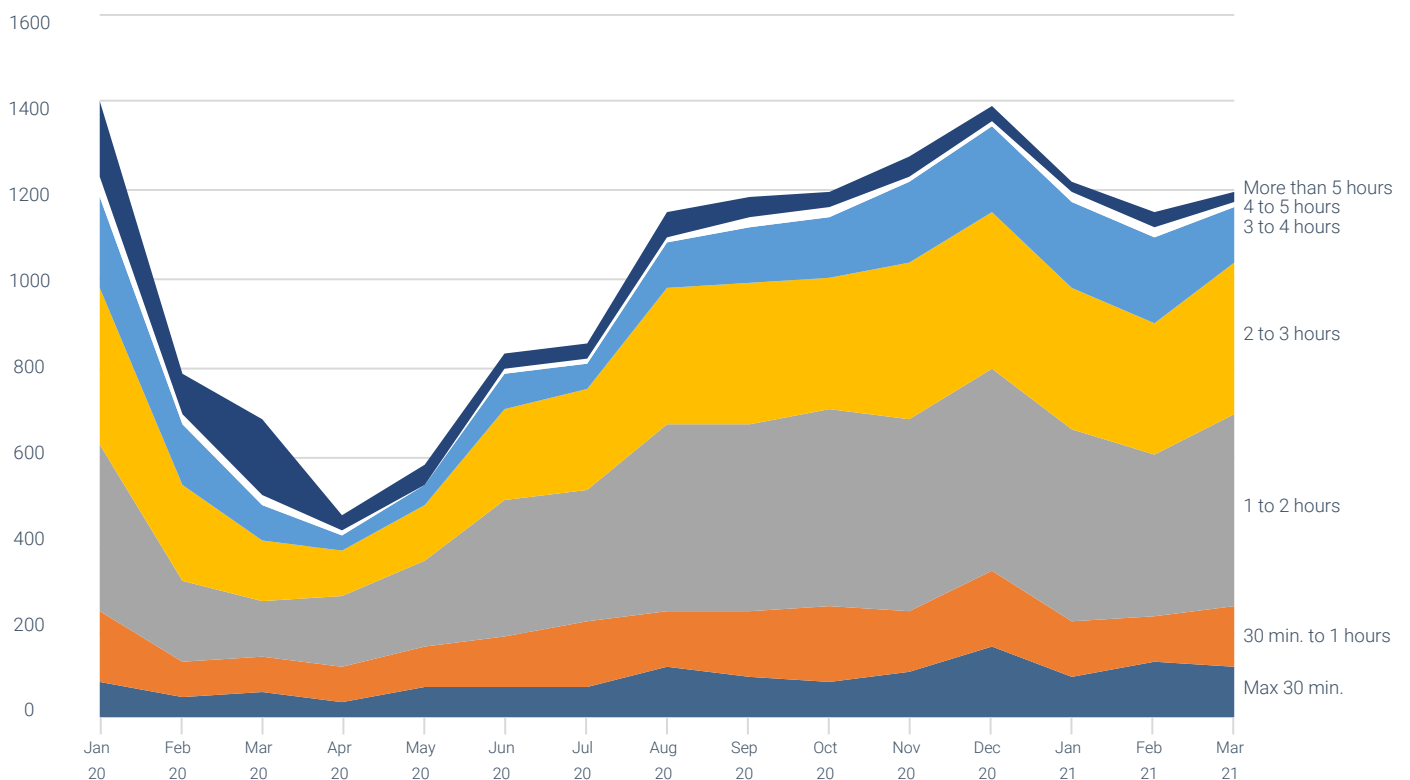
## FLIGHT ACTIVITY TREND: 2020 VS. 2019



Mainland China has seen a continuous year-on-year rise since August 2020 and was the only country to perform well in the first quarter. In March alone, mainland China and India saw huge year-on-year increases

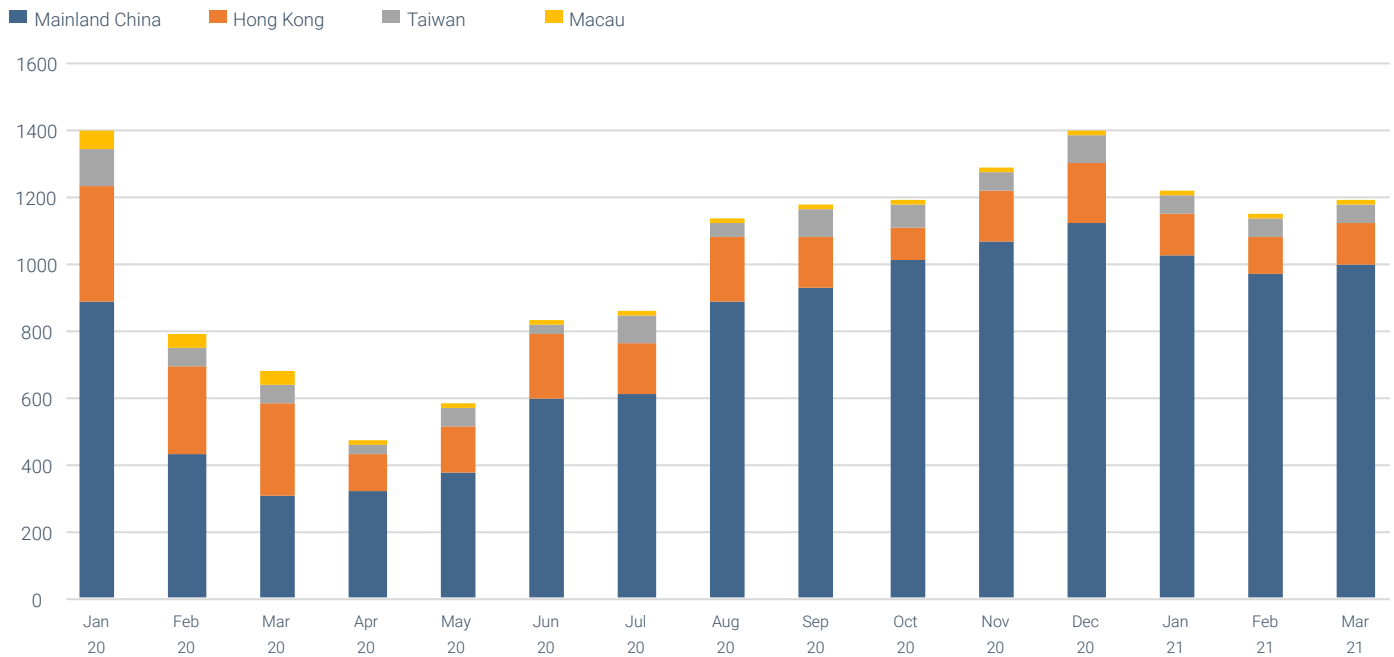
in flight activities equivalent to a rate of 225% and 102%, respectively. By contrast, Hong Kong, Japan, and Singapore have experienced long-lasting year-on-year drops since the outbreak of COVID-19.

## FLIGHT DURATIONS IN GREATER CHINA





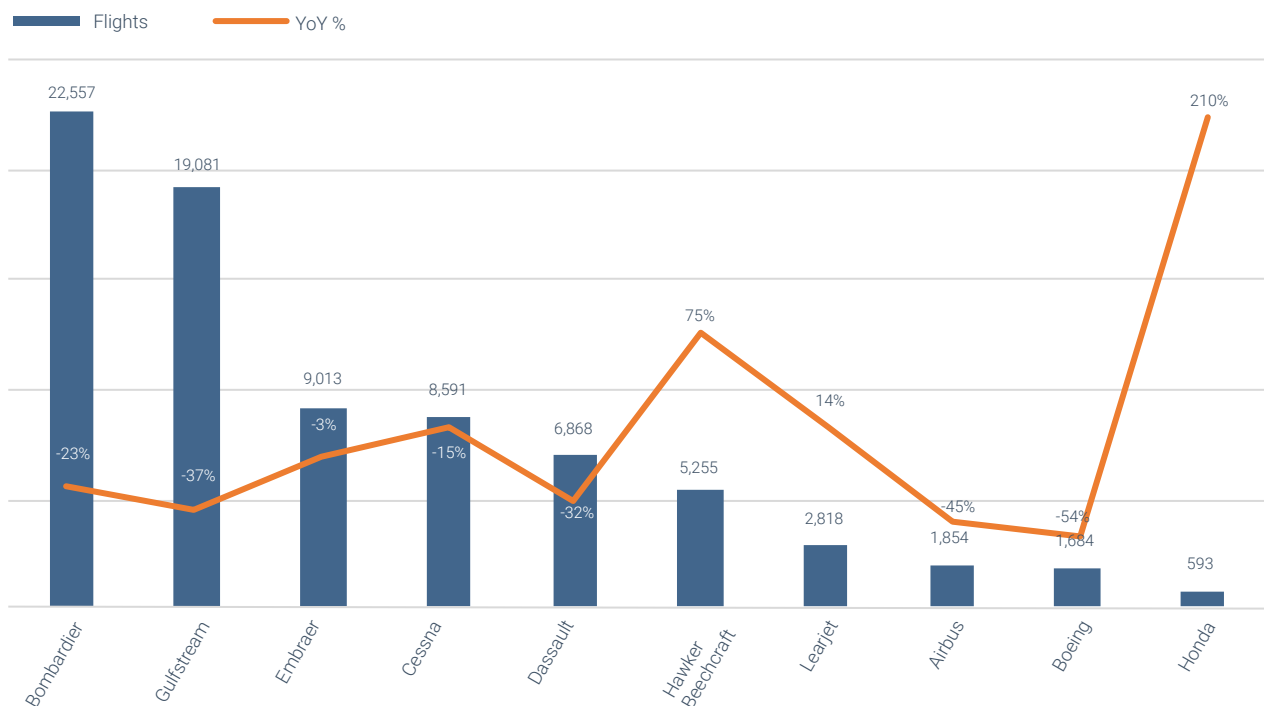
## GREATER CHINA PERFORMANCE 2020 JAN - 2021 MAR



From the graph, half of the top OEMs experienced a year-on-year rise in flight activity. Cessna increased by 24% mainly due to the major recovery in mainland China and India. In addition, although Honda ranked last amongst the top OEMs, its flight activities grew by 138%. This was due to a 168.6% year-on-year rise in Japan and 87.5% growth in the Philippines.

On the other hand, ultra-long range jet activity decreased by 36% when compared to the previous period, as India, Indonesia, and Japan saw year-on-year drops of 31.6%, 31.9%, and 66.7%, respectively. By contrast, midsize jet flight activity grew 27% due to the 141.3%, 137.6%, and 52.3% year-on-year rises in South Korea, India, and Indonesia, respectively.

## TOP OEM FLEET ACTIVITIES YOY%



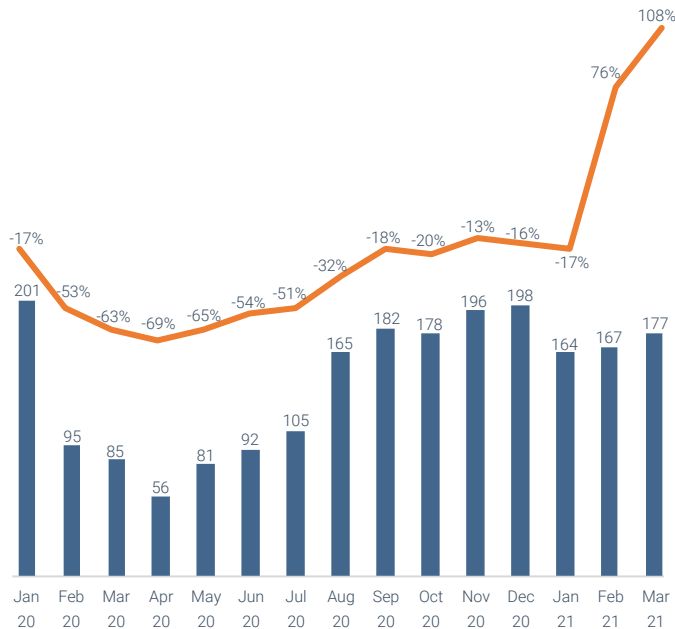
The busiest hub in Asia-Pacific was Beijing during the first quarter of 2021. Compared to the first quarter of 2020, flight activity in Hong Kong, Taipei, Tokyo and Singapore in the first quarter of 2021 was notably down. On the other hand, flight activities in Beijing, Shanghai

and Guangzhou all saw substantial year-on-year rises both in February and March 2021. In addition, Bangkok and Taipei saw year-on-year increases in March 2020, whilst Hong Kong, Singapore and Tokyo all saw year-on-year drops.

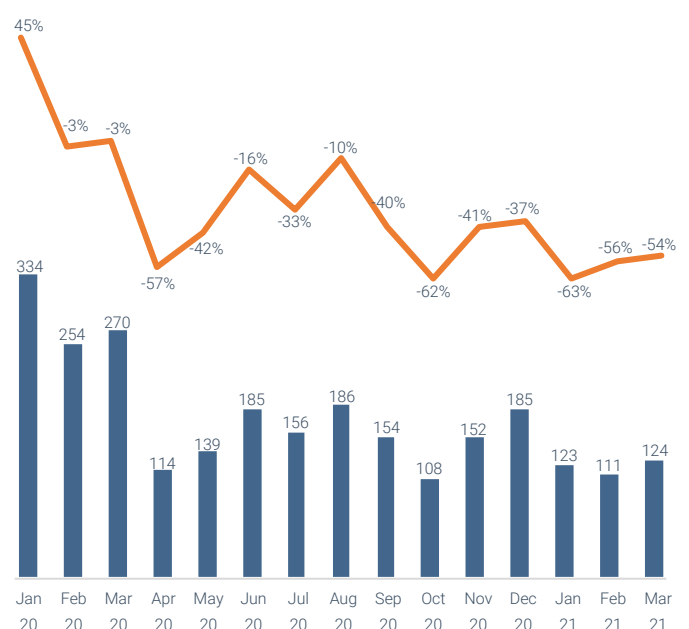
## TOP AVIATION HUB FLIGHT ACTIVITY TRENDS 2020

■ Departing Flights ■ YoY %

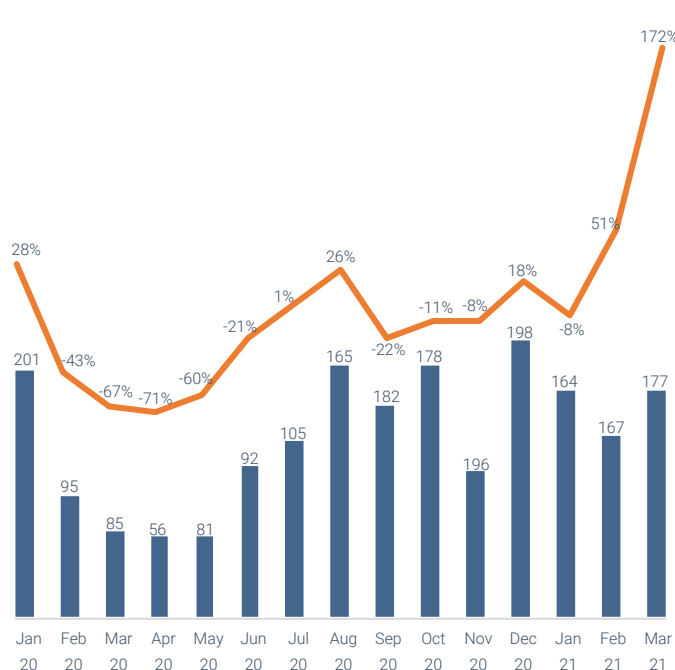
### BEIJING



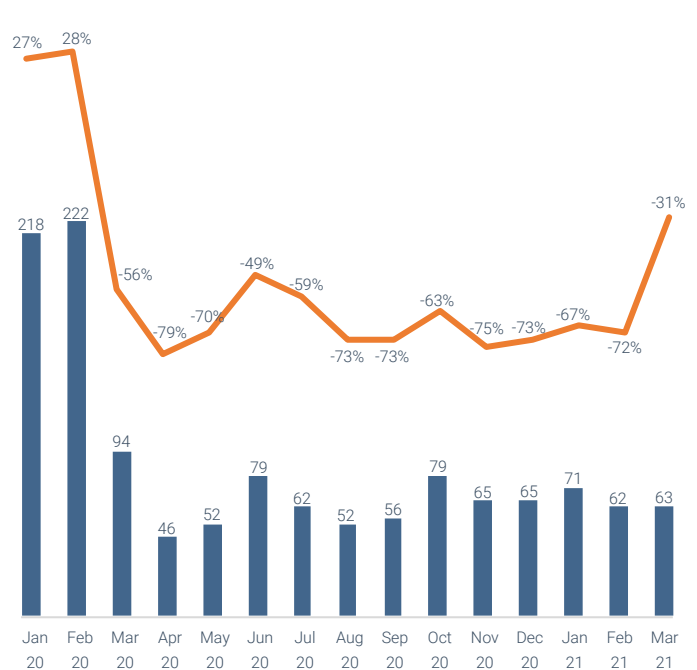
### HONG KONG



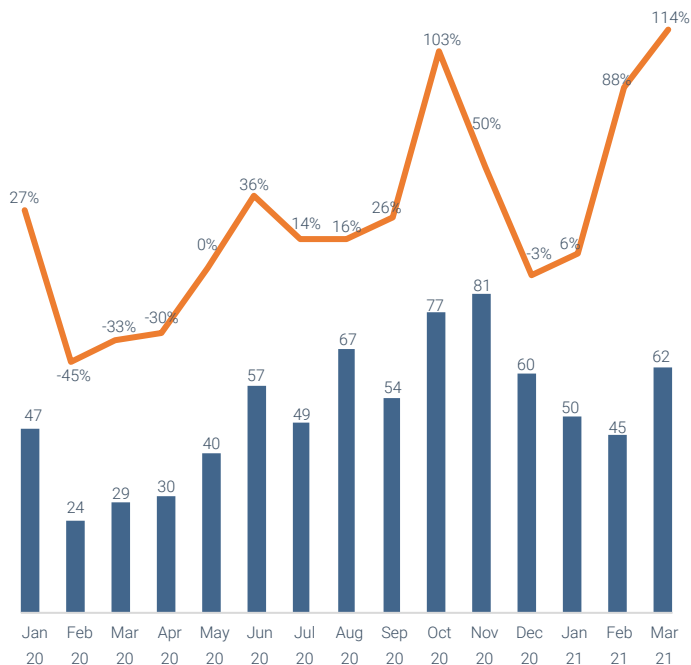
### SHANGHAI



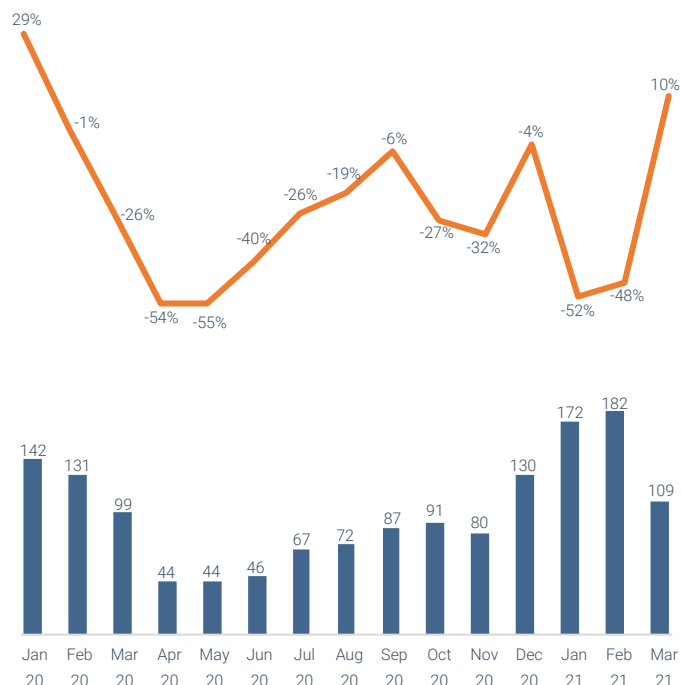
### TOKYO



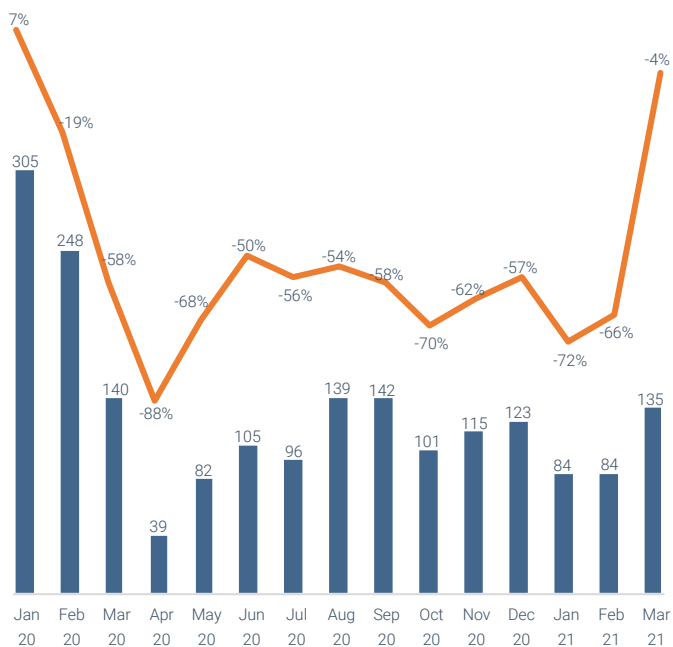
## GUANGZHOU



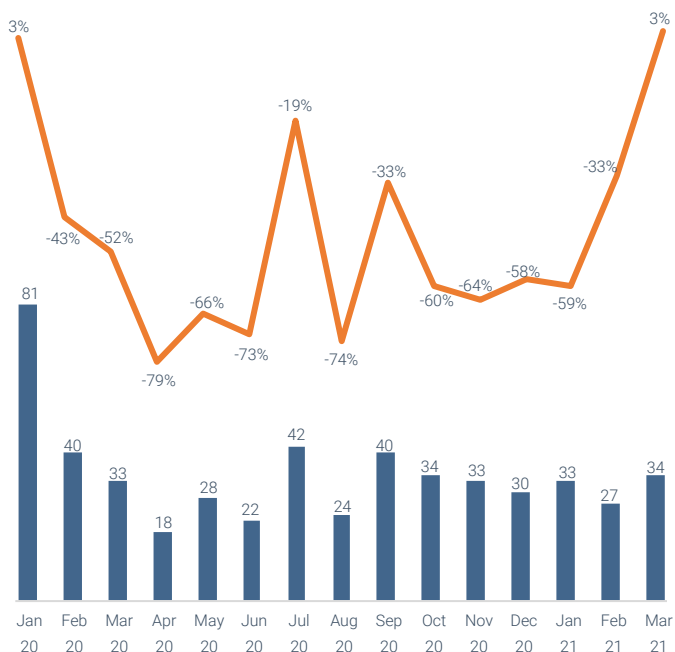
## BANGKOK



## SINGAPORE



## TAIPEI





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# PRE-OWNED MARKET SPOTLIGHT

## GLOBAL XRS AND GLOBAL 6000



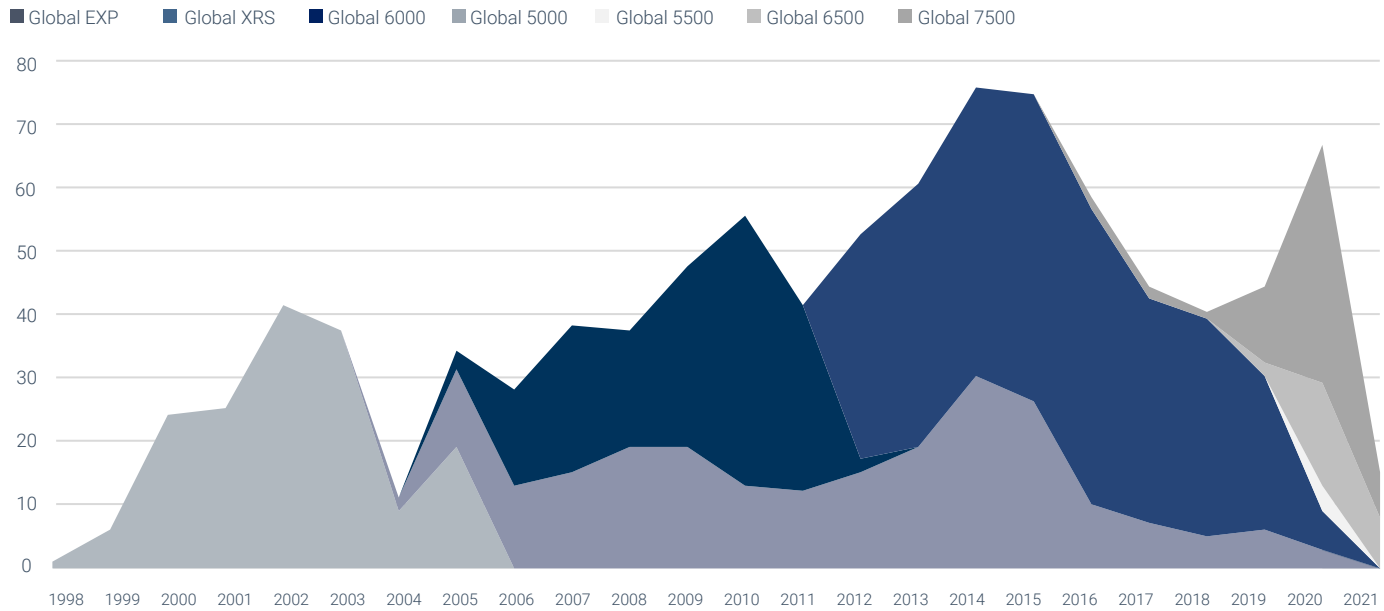
**T**he original Global Express was first announced during the 1991 NBAA show. At the time, Bombardier's Challenger 600 series aircraft was the biggest, and furthest flying business jets that the Canadian manufacturer was building. But Bombardier's customers wanted more. Whilst the Challenger 600 series are great aircraft, they lacked the range to fly ultra-long distances. The Global Express was launched to solve that problem, with the aim of being able to fly from any two points on the globe, with only one fuel stop.

Although the Global Express shares the same fuselage cross section as the 1,000+ selling CRJ series of regional jets, it differs from the CRJ by having a newly designed supercritical wing, and a new tail structure. At its time of release, the Global Express had the furthest range of any purpose-built business jet, with its ability to fly a maximum of 6,000nm trumping its closest rival, the Gulfstream IV, by a long way. Gulfstream would soon reply to the Global Express with the launch of the Gulfstream V.

Bombardier would later launch the Global Express XRS – an updated variant that included an increase in range thanks to an additional fuel tank inserted at the wing root. This helped increase the Global XRS's range over the baseline Global Express by just over 300nm. Other improvements included an updated cabin and increased maximum cruise speed.

The Global 6000 was introduced in 2012 and is a rebranded Global Express with a few several key upgrades. The upgrades include an updated cockpit that features the Rockwell Collins Pro Line Fusion avionics suite.

## ACTIVE FLEET BY DELIVERY YEAR



Data Source: AMSTAT

## Fleet Distribution

Over 160 Global XRS and 310 Global 6000s have been delivered to customers all over the world. The highest number of Global XRS deliveries in a single year took place in 2010, whilst for the Global 6000 it was 2015.

The Global family had been one of the most important product lines for Bombardier before it divested itself of its other aviation and transportation assets so that it could focus entirely on business aviation. The Global 7500 saw its first delivery take place in 2018 and was delivered in good numbers in 2020 – giving it a good start on Gulfstream's G600 & G700.

Given the Global family's trans-Atlantic capabilities, North America and Western Europe are the top operating areas for the XRS and 6000, whilst Asia comes third place, with majority of its fleet based in Greater China market (Hong Kong, and mainland China).

According to ASG's 2020 Business Jet Fleet Report, at the end of 2020, there were 17 Global 6000s based in Hong Kong, 16 based in mainland China, and two in Taiwan. Australia has the second largest fleet in in Asia-Pacific, with 11 Global XRS and four Global 6000 aircraft in operation.

On operator side, according to Amstat, VistaJet and NetJets are the largest operators internationally. For Greater China, operators include TAG Asia, Lily Jet, BAA and Bellawings.

## Pre-owned Market Status

The average age for XRS fleet in operation is over ten years, whilst the Global 6000 has just reached the five years threshold. Both models have now entered their active pre-owned market age group. Despite its current active state in the market, we estimate that supply will fluctuate in the future.

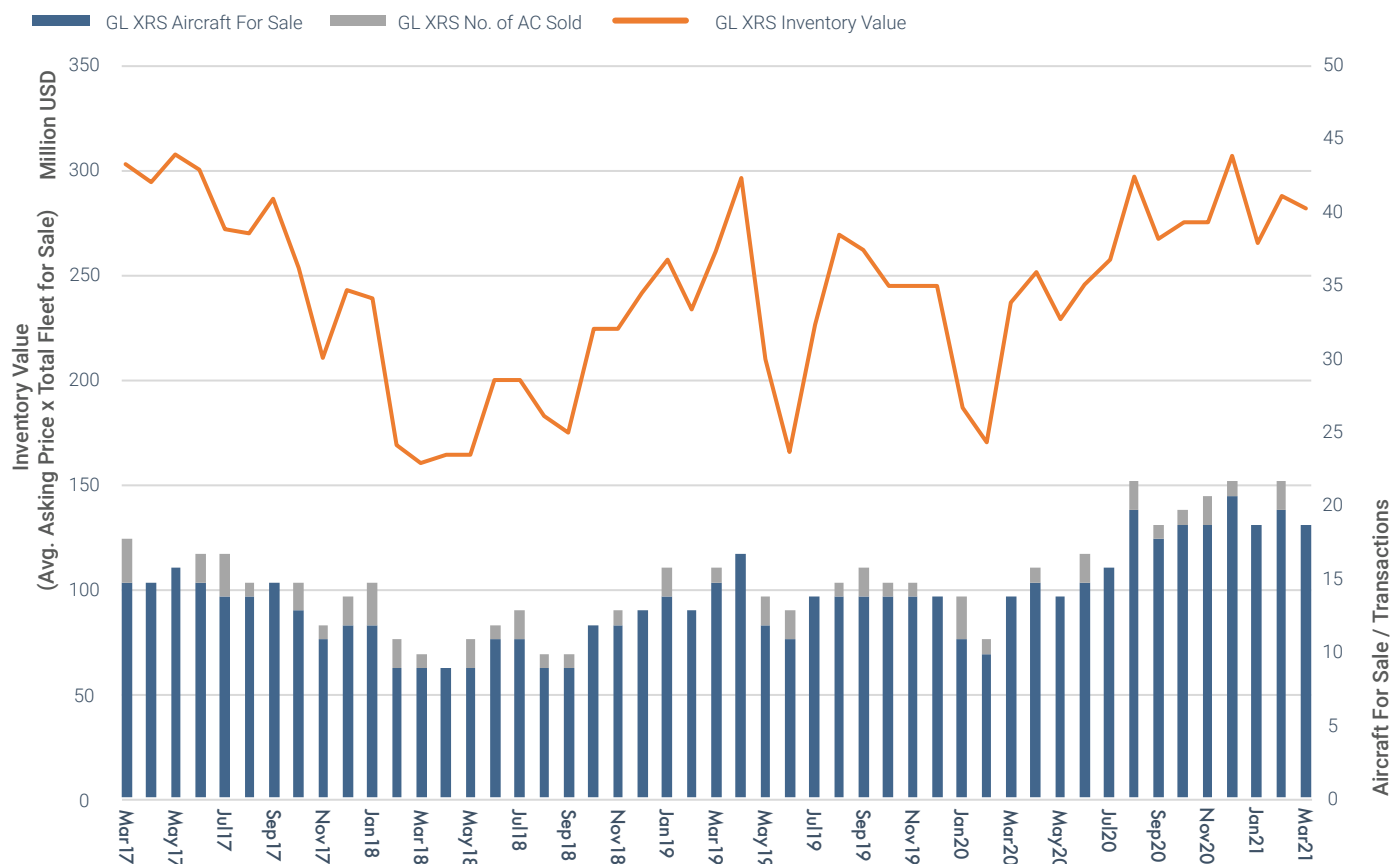
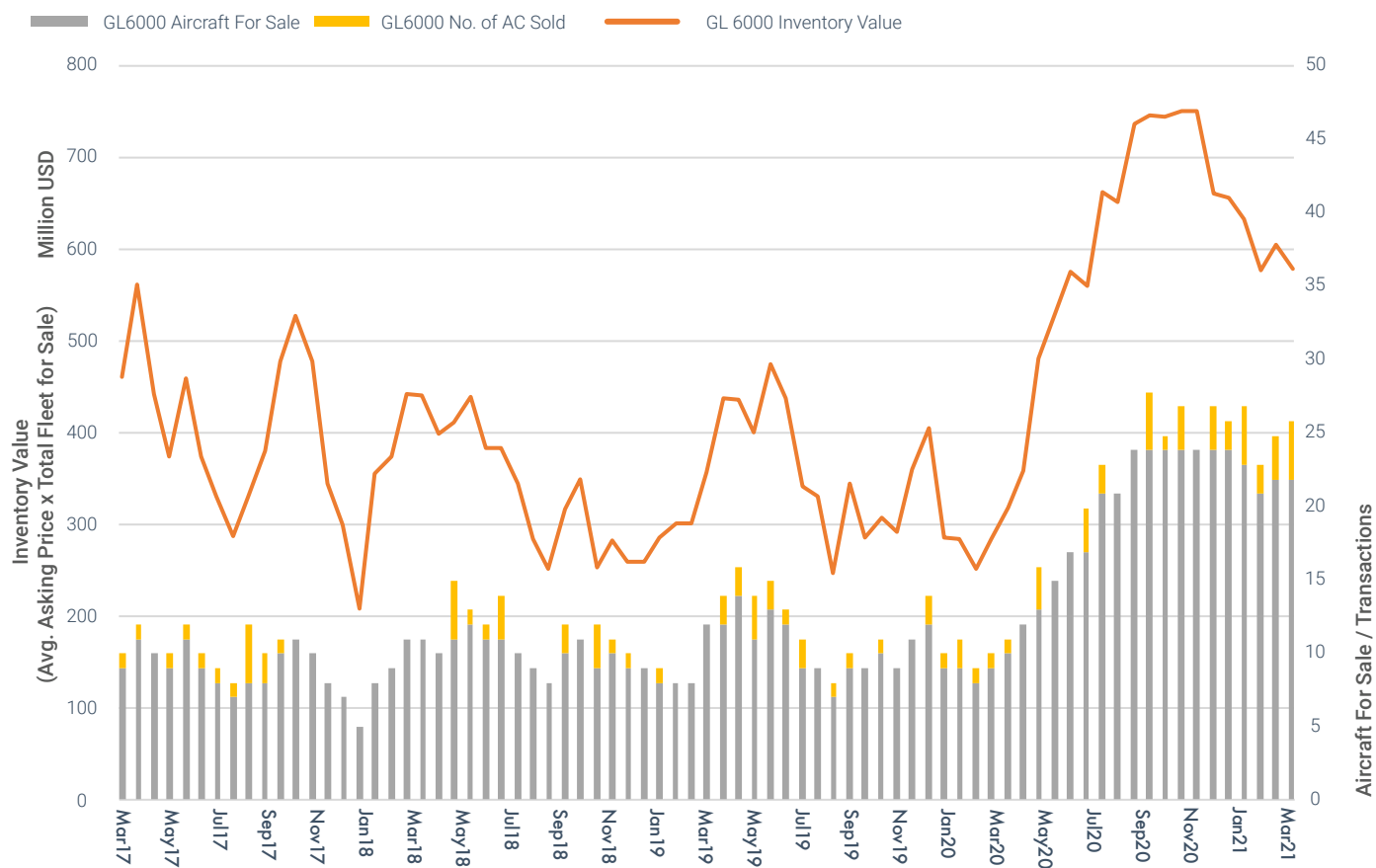
Before 2020 the supply for both the XRS and Global 6000 had been relatively stable, with 10-15 aircraft of each model actively in the market. Since the pandemic, much like its competitors, supply has been building up. In the first quarter of 2021 there were a total of 19 Global XRS aircraft for sale - 11.8% of the total fleet. For the Global 6000, there were 22 aircraft for sale – 6.7% of the total fleet. The inventory level of both models is higher than for the Gulfstream G550, which is currently between 4-5%.

Over the past year, we have seen sellers mainly from the US and Europe, and buyers mostly from the US and Asia. Between 2017-2020 there was a stable market for the both the Global XRS and Global 6000, with an average of 2-3 transactions taking place in each month for each model. However, since the onset of the COVID-19 pandemic we have seen a sharp increase in the number of Global 6000 transactions, with an average of 4-6 transactions each month since Q2 2020.

## OPERATION AREA

REGION	GLOBAL XRS	GLOBAL 6000	GRAND TOTAL
N. America	76	123	199
W. Europe	39	107	146
Asia	15	42	57
Mid. East/Africa	13	17	30
Australia/Oceania	11	6	17
E. Europe / W. Asia	4	10	14
S./C. America	2	9	11
Grand Total	160	314	474

Data Source: AMSTAT

**MARKET CONDITION: GLOBAL XRS (INVENTORY VALUE, FLEET FOR SALE & TRANSACTIONS)****MARKET CONDITION: GLOBAL 6000 (INVENTORY VALUE, FLEET FOR SALE & TRANSACTIONS)**

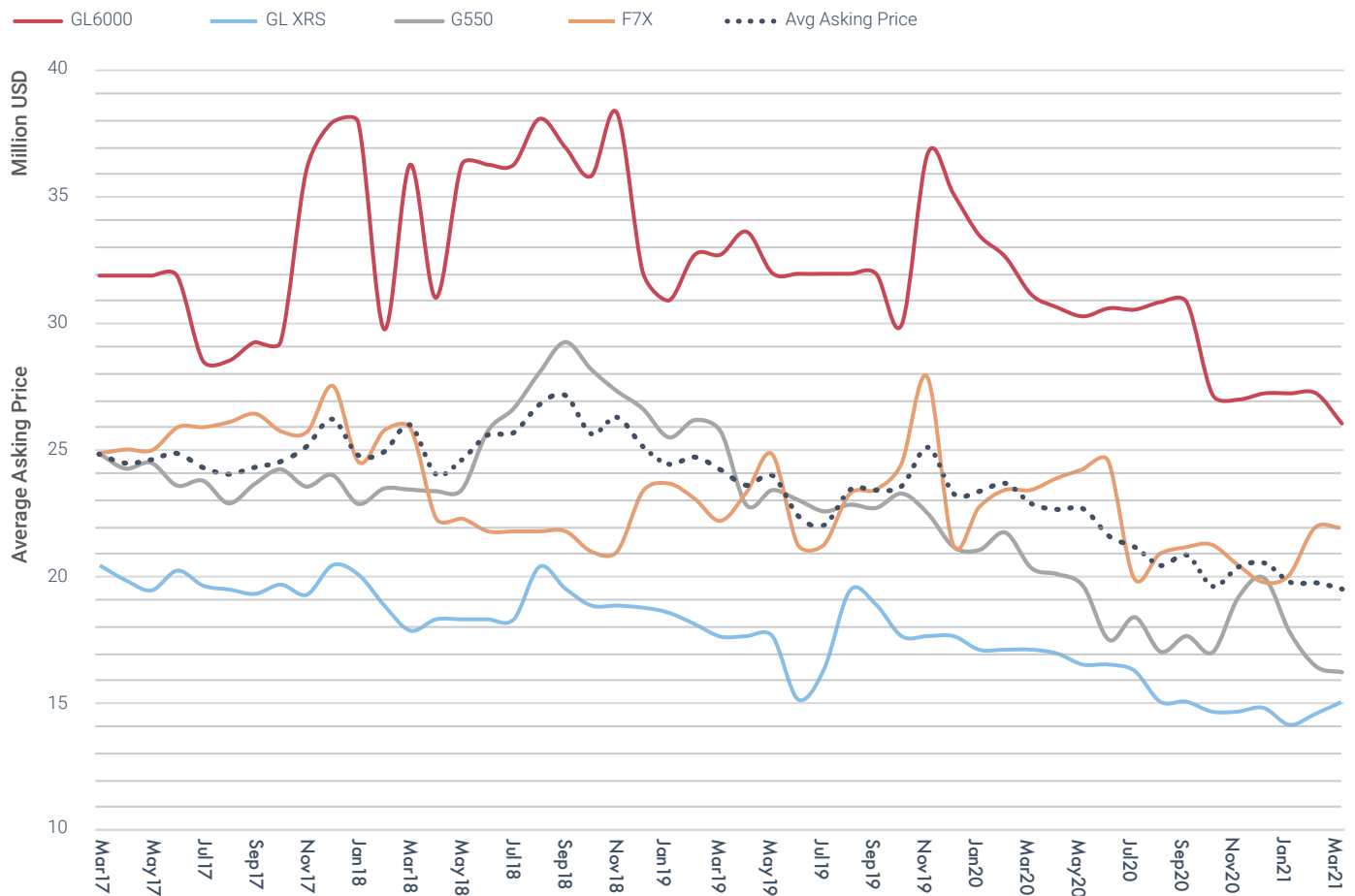
Data Source: Amstat, Guardian Jet and Asian Sky Group

Based on ASG's market records, since 2017 the Global XRS's average asking price has decreased from \$20 million to around \$15 million today – around a 25% decrease over four years. The price trend also shows that the asking values for the Global XRS and Global 6000 have been consistently below that of its competitors, the G550 and Falcon 7X, making it a viable option among price sensitive operators. Over the past three years, and taking into account the natural aging of the Global 6000 fleet, its average asking price trend varied from \$35-\$40 million, to the \$25-\$30 million price range that it is currently.

The average time to sell a Global XRS / 6000 takes from six months to one year - a bit longer than G550 which is usually five to ten months. However, any transaction depends on the aircraft's age, configuration, equipment, and maintenance status. So the time on market could be longer, or shorter.

Over 70% of the current fleet (both XRS and 6000) for sale are enrolled on an engine maintenance program, with nearly all recent transactions also being enrolled.

### ULTRA LONG RANGE MARKET - AVERAGE ASKING PRICES (GLOBAL 6000 & XRS VS. G550 & FALCON 7X)



### Residual Value and Pricing Strategy

According to Vref, for a 2015 delivered Global 6000 with a residual value between \$20-\$23 million, the annual depreciation rate will be over 10%. For a 2010 Global XRS, its current residual value varies between \$12.8-\$14.5 million, with an annual depreciation rate of around 7%.

From what we have seen in the market, sellers / owners expectations for selling Global's are often high and far from the market reality. We have seen many XRS / 6000 listed on market with a high asking price but no solid enquiry / lead for a long time. Eventually the owner/seller has to reduce the pricing by millions – In many cases we have seen a reduction in asking price of between \$4-\$5 million over the course of a year.

### Forecast for Global XRS / Global 6000

The fourth quarter of 2020 saw a surge in activity that capped off an already very active year for Global transactions. With business aviation in recovery, it is foreseeable that the demand for the Global 6000 and XRS will remain strong. But in the long run, the Global XRS and Global 6000 market supply will continue to increase, which will have a negative impact on pricing.



# MARKET UPDATE

## Q1 2021 BY AMSTAT

**A**ndrew Young, AMSTAT General Manager said, “combining the AMSTAT market statistics and the aircraft value data created by the AMSTAT Aircraft Valuation Tool, empowers AMSTAT clients with the ability to see the complete market picture.” Adding, “rising re-sale transaction activity, contracting inventory and recovering values are all positive signs for the global business aircraft resale market.”

### Heavy Jet Short Term Median Value

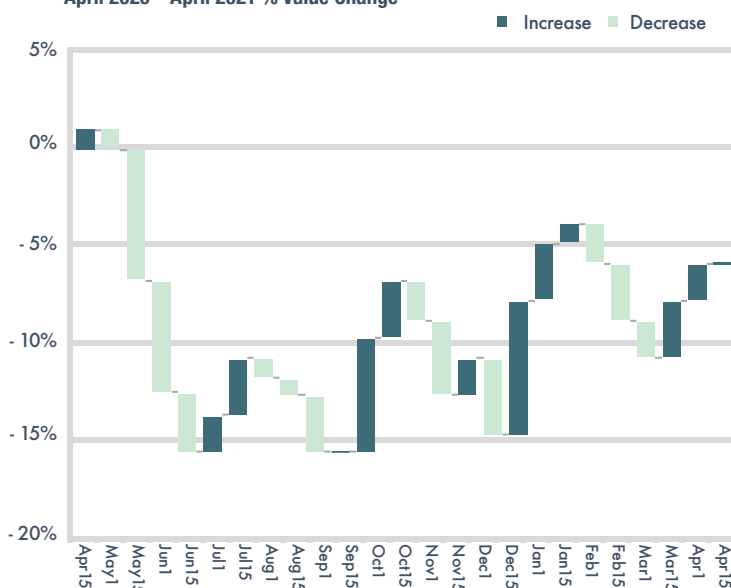
The short-term median value of Heavy Jets has continued to trend upwards since the end of Q3 2020.

There have been a few ups and downs along the way, but median values have recovered 9% since mid-December through April. This trend has been driven in 2021 by a continued acceleration in transaction activity — up 19% in Q1 (March data incomplete) versus Q1 2020. The existing inventory has declined by 20% since a high in mid-2020, which has caused a scarcity in the Heavy Jets for sale.

**IMPORTANT NOTE:** This chart represents aggregated data. The changes in values this year within individual make and model markets, and for specific serial numbers, may vary to a greater or lesser degree from these trends.

### HEAVY JET SHORT TERM MEDIAN VALUE

April 2020 – April 2021 % Value Change



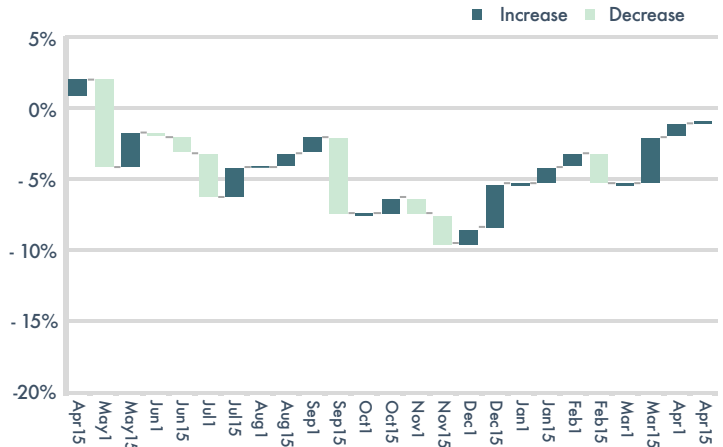
## Medium Jets Short Term Median Value

The short-term median value of Medium Jets has been recovering since December 2020 – up 8% through mid-April. This increase has also been driven in 2021 by continued robust resale transaction activity, up 20% (March data incomplete) in Q1 2021 over Q1 2020 and a continued contraction in Medium Jet units for sale, down 25% since a mid-2020 high.

**IMPORTANT NOTE:** This chart represents aggregated data. The changes in values this year within individual make and model markets, and for specific serial numbers, may vary to a greater or lesser degree from these trends.

### MEDIUM JET SHORT TERM MEDIAN VALUE

April 2020 – April 2021 % Value Change



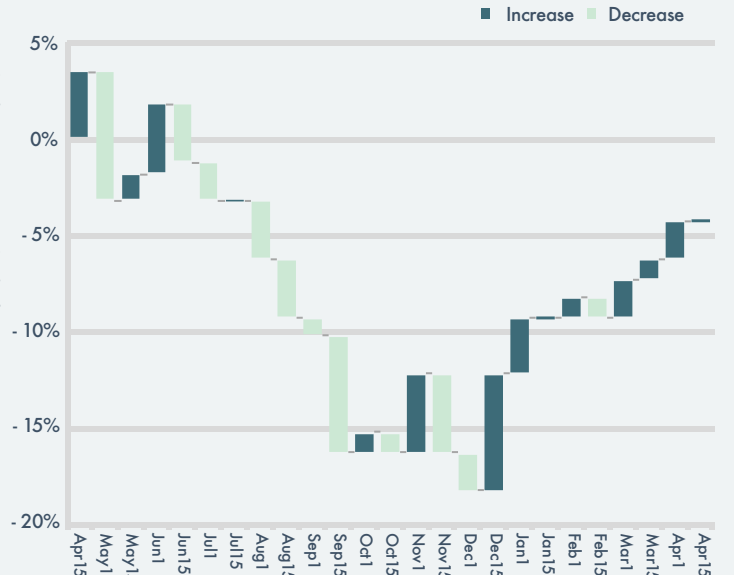
## Light Jet Short Term Median Value

The short-term median value of Light jets has increased 11% since December 2020. As with other markets, this upward trend has continued into 2021, driven by increased resale transaction activity, up 43% in Q1 versus Q1 2020, and a continued reduction in Light Jet inventory, down 29% since mid-2020.

**IMPORTANT NOTE:** This chart represents aggregated data. The changes in values this year within individual make and model markets, and for specific serial numbers, may vary to a greater or lesser degree from these trends.

### LIGHT JET SHORT TERM MEDIAN VALUE

April 2020 – April 2021 % Value Change



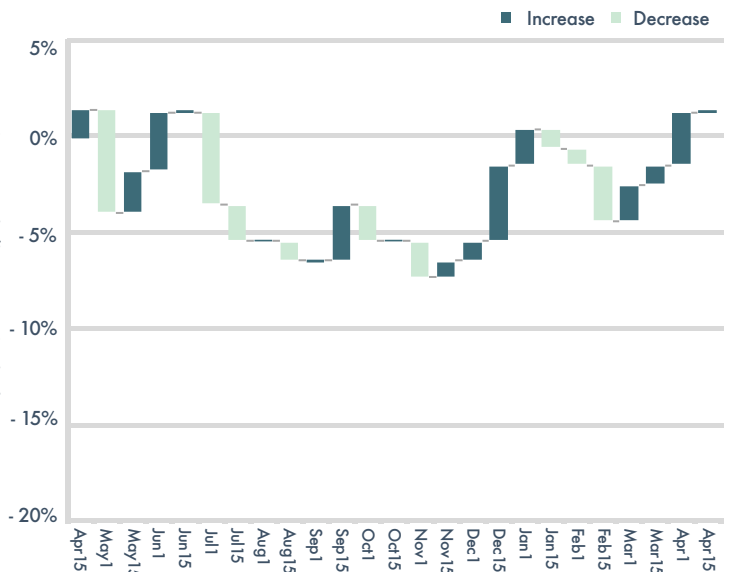
## Turboprops Short Term Median Value

The short-term median value of Turboprops has oscillated since mid-2020 but has had an overall increase of 5% since November. As with other markets, this upward trend has continued into 2021. Turboprops have also been driven by strong resale transaction activity, up 25% in Q1 versus Q1 2020, and a continued tightening of inventory which is down by 21% since mid-2020.

**IMPORTANT NOTE:** This chart represents aggregated data. The changes in values this year within individual make and model markets, and for specific serial numbers, may vary to a greater or lesser degree from these trends.

### TURBOPROP SHORT TERM MEDIAN VALUE

April 2020 – April 2021 % Value Change



# Q4 2020 - GLOBAL MARKET UPDATE

— Commentary by Global Jet Capital



**T**he COVID-19 global pandemic presented business aviation with its biggest pressure test since the Great Recession, and to date the industry has demonstrated remarkable resilience. During the early stages of the pandemic, some worried that business aviation would face the same difficulties it did following the financial crisis: overproduction, swelling inventories, and broad-based aircraft devaluation. However, the industry developed a new level of production discipline, maturity, and stability over the past decade that has enabled it to remain healthy through this trying period. While transactions were down overall when comparing 2020 to 2019, Q4 was the best quarter seen in at least three years, driven by strong pre-owned sales. Inventory levels as a percent of the total fleet are at the lowest levels ever seen, pointing to broad-based stability in aircraft values going into 2021. Furthermore, charter, jet card, and fractional operators are reporting record 2020 performance driven to a large extent by new clients. While some of those new to the business aviation value proposition – random access, productivity, security, and health safety – may return to the airlines one day, we know from experience that many will remain in the industry, potentially moving into whole aircraft ownership.

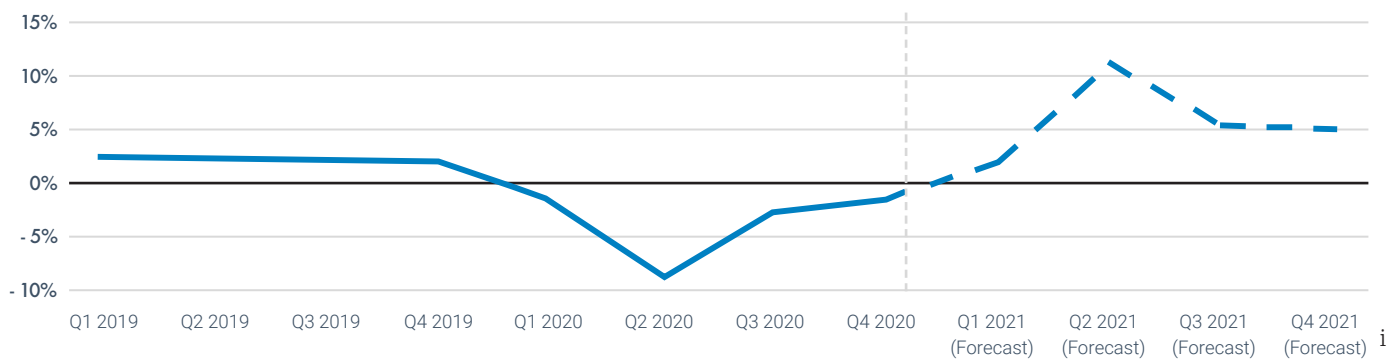
- Vaccine rollout and government stimulus are expected to drive economic growth in 2021.
- In Q4 2020, business jet flight operations continued the gradual improvement seen in Q3. The nearly 987,000 flights recorded were 14 percent below Q4 2019 levels. We expect this level of activity to continue until pandemic-related business and societal restrictions are lifted.
- While backlogs at major business jet manufacturers declined year-over-year, OEMs indicate that increasing flight operations, low inventory levels, and new business jet models will drive demand for new business jets going forward.
- Following a low in April and May, transaction activity gradually improved through the rest of the year, culminating in a very active Q4. In Q4, unit volume increased 6 percent year-over-year, while dollar volume increased 2 percent. Pre-owned transactions, which proved easier than new production to restart, led the growth.
- Increasing pre-owned transactions in H2 2020 led inventory levels to fall to 8 percent by December 2020, one of the lowest levels in recent memory.
- While uncertainty remains, a few residual value trends have emerged. Some larger aircraft models have experienced value declines, while values of certain newer, small, and medium aircraft models have been more stable. With that said, the inventory of quality large and super-midsize aircraft is substantially depleted, and this is likely to drive stability and lead to improvement over 2021.

The global outlook will be greatly influenced by the course of COVID-19. That being said, there is reason for cautious optimism within the business jet market due to the resiliency of the industry in 2020.



## GLOBAL ECONOMY

## Global GDP Percent Change

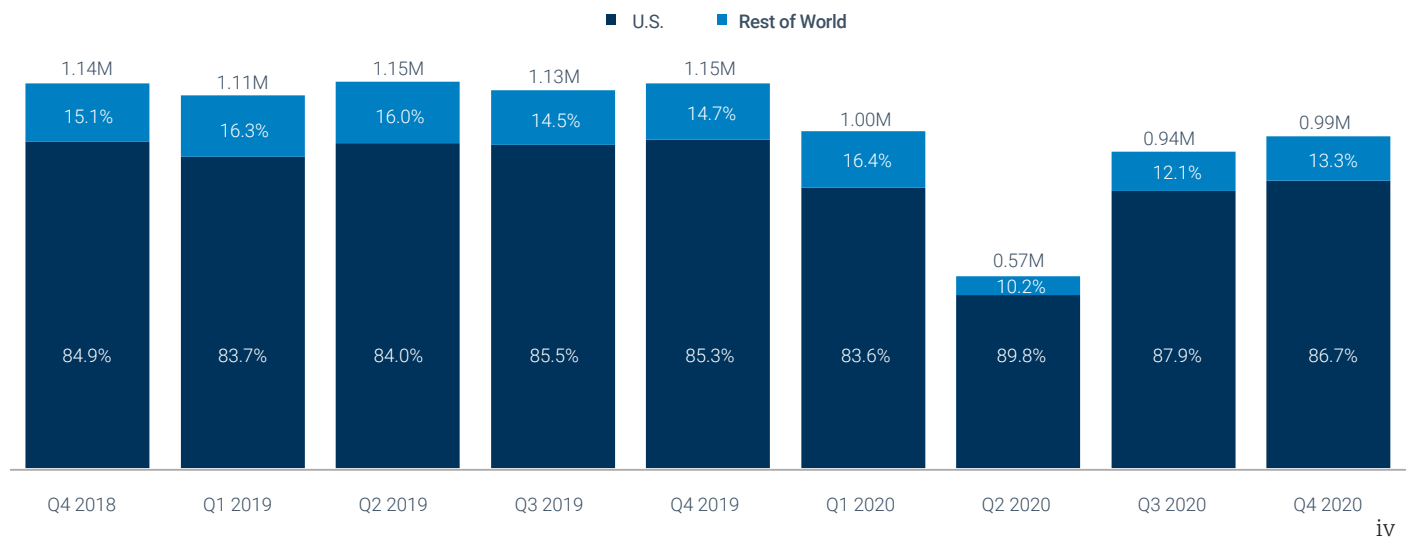


Following sharp declines in 2020 due to the pandemic, the global economy is expected to rebound in 2021 as vaccines continue to be rolled out. Oxford Economics expects growth to peak in Q2 and remain strong through the rest of the year<sup>ii</sup>. An analysis by Managing Director and Head of Global Research for The Carlyle Group, Jason

Thomas, demonstrates that economic damage caused by the pandemic mostly affected travel, tourism, live events, and other related industries. The downturn in those sectors was at least partially offset by growth in durable goods and digital services. Vaccine rollouts and government stimulus will drive growth in 2021<sup>iii</sup>.

## FLIGHT OPERATIONS

## Global Business Jet Operations

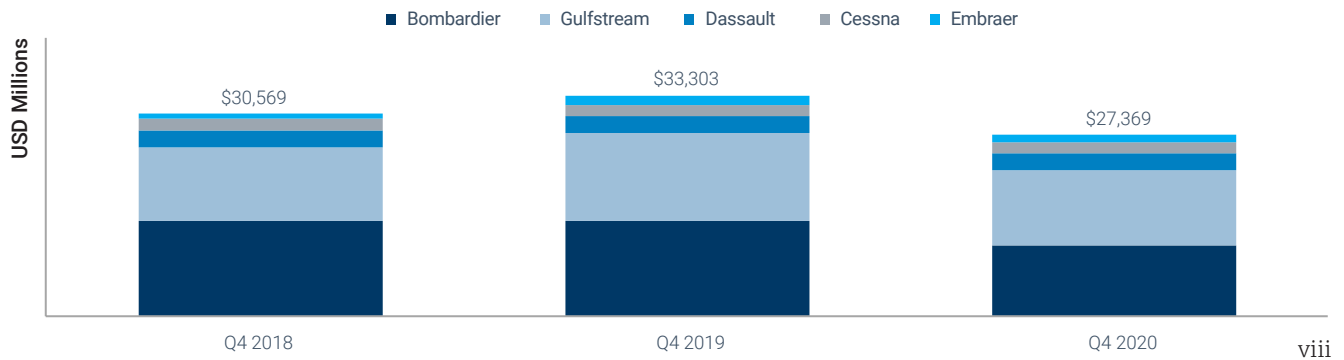


The outbreak of COVID-19 disrupted global flight activity in the first half of 2020. According to the U.S. Federal Aviation Administration (FAA), business jet flight operations fell to an April low that was 74.9 percent below the same period in 2019 before beginning a steady recovery in May. In Q3, operations were 16.6 percent below Q3 2019, a significant improvement from the 50.4 percent year-over-year decline recorded in Q2. Operations were 13.9 percent below Q4 2019 levels in Q4 2020 and appear to be following a similar trend in early 2021.

Throughout the COVID-19 pandemic, business aviation has experienced increased demand from new customers looking to avoid potentially crowded commercial airports and flights. One study found that flying privately can reduce 680 "person-to-person" touchpoints compared to a commercial flight<sup>iv</sup>. This shift in customer preferences has benefitted business aircraft operators. For example, Jet Aviation, a charter provider, has seen a large portion of its business come from customers new to business aviation. A recent study found that 96 percent of these new users will continue flying in business aircraft at least some of the time, even after the pandemic is over<sup>vii</sup>.

## OEM BACKLOGS

## Q4 Backlog at Major Business Jet OEMs



As major business jet manufacturers continued to deal with the COVID-19 pandemic, backlogs declined 17.8 percent year-over-year in Q4 2020. Much of the decline occurred early in 2020 and can be attributed to difficulty in closing deals, since potential customers could not meet with company representatives or inspect aircraft.

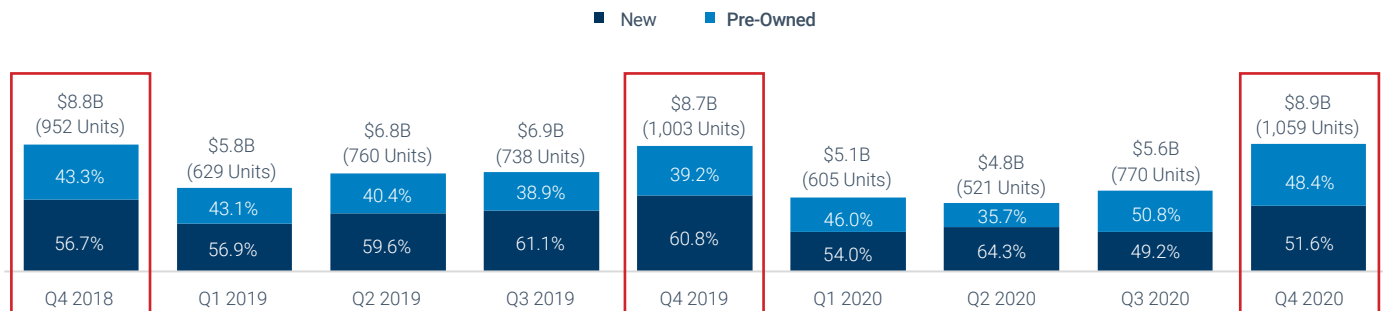
As a group, manufacturers are optimistic about the future. Companies point to gradually increasing flight operations and low inventory levels as factors that will drive demand going forward. Many manufacturers

also plan to introduce new aircraft or upgrade current aircraft over the next few years, further increasing the appeal of their products.

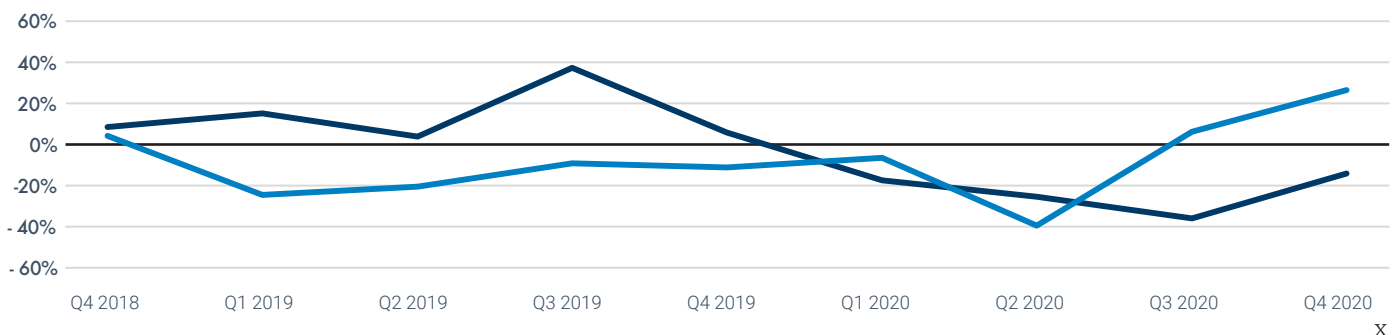
Still, manufacturers remain conservative about production plans in 2021 as they continue to balance supply and demand, keep workers safe, and restart supply chains. Guidance by individual OEMs ranges from slight declines in production, to steady production, to increases in production levels. The overall result will be steady production rates in 2021, with the potential for slight increases compared to 2020.

## TRANSACTIONS (\$ VOLUME)

## Business Jet Transactions



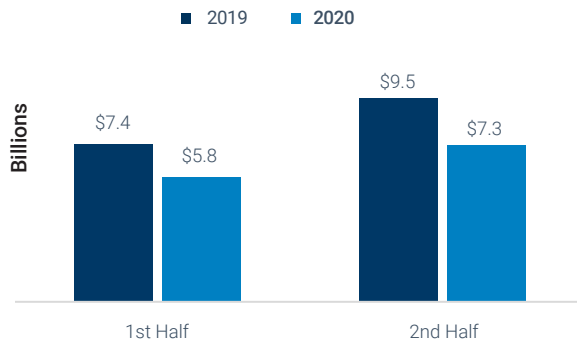
## YoY % Change in Transaction \$ Volume



Following a low in April and May, business jet transactions gradually improved through the rest of 2020. Transaction unit volume was 4 percent higher in Q3 than the year prior. Transaction dollar volume was down 19 percent due to a changing mix of aircraft; however, dollar

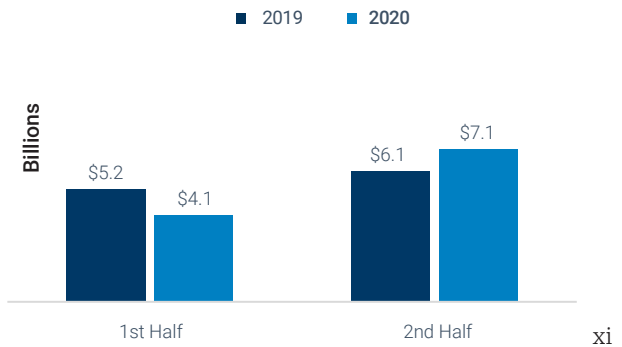
volume was up 18 percent compared to Q2. Market improvement continued in Q4, with unit volume up 6 percent compared to Q4 2019 and dollar volume up 2 percent.

## NEW DELIVERIES (\$ VOLUME)



While new deliveries remained low throughout 2020, increases in pre-owned transactions led to improvements in the second half of 2020. The decline in new volume was a result of a supply side shortage. Manufacturers reduced production to comply with social distancing policies earlier in the year and it took time to restart operations and resolve supply chain disruptions. Manufacturers were also proactive in managing supply to support aircraft values over the long term.

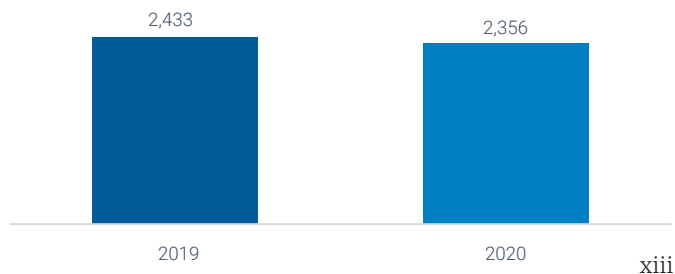
## PRE-OWNED TRANSACTIONS (\$ VOLUME)



On the other hand, pre-owned transactions have recovered faster. Transactions, measured in dollar volume, declined at similar rates for both new and pre-owned transactions in the first half of the year. However, in the second half of 2020, pre-owned transactions increased 17 percent compared to the second half of 2019. The second half improvement in the pre-owned market suggests a continued demand for aircraft and indicates that pre-owned transactions have been easier to restart than production of new aircraft.

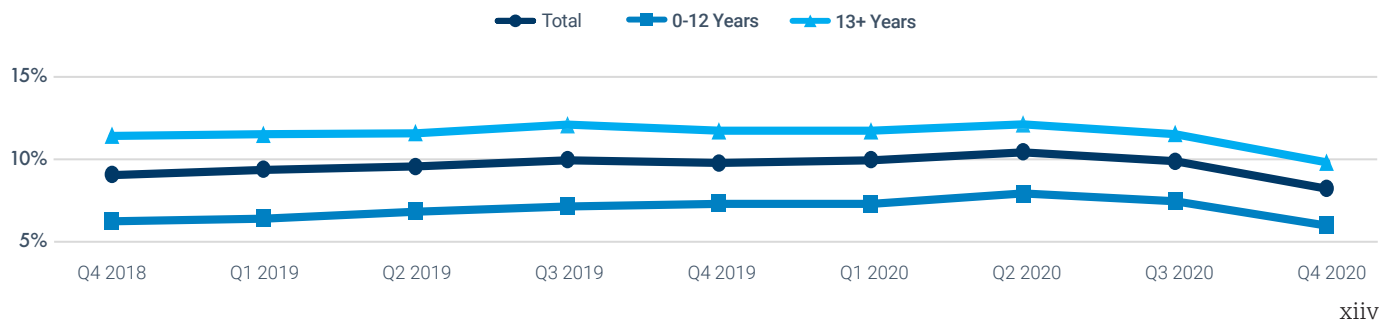
## FOR SALE INVENTORY

## YTD



Even as pre-owned transactions recovered in Q3 and Q4, aircraft listed for sale declined slightly compared to 2019. While there were monthly variations, owners listed 3.2 percent fewer aircraft through December 2020 than during the same period in 2019. In 2020, the average number of aircraft listed for sale per week was 45. Compare that to new listings during the onset of the Great Recession in 2008, which averaged 70 per week.

## PERCENT OF BUSINESS JET FLEET FOR SALE

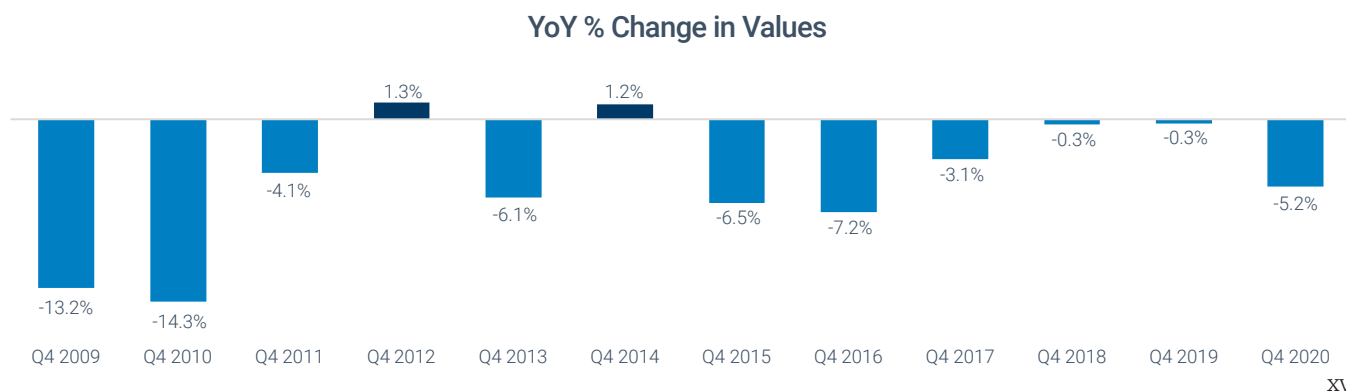


Increasing pre-owned transactions and declining aircraft listings led to stable business jet inventory levels in 2020. Inventory did increase through the first half of the year as COVID-19 made closing transactions difficult. The result was a peak inventory of 10.3 percent of the total fleet in June 2020 (still considered a healthy level). However, as

pre-owned transactions increased in the second half of 2020, inventory levels fell, reaching 8.2 percent by December. Furthermore, inventory of aircraft younger than 13 years old, typically seen as more desirable, was 6.1 percent of the global fleet. Overall, the effect of COVID-19 on preowned aircraft supply data has been minimal.



## RESIDUAL VALUE



The above chart compares the year-over-year percentage change in the bluebook value of like-aged aircraft over time (e.g., the difference between value of an eight-year-old aircraft from one year to the next). Global Jet Capital analyzes a basket of aircraft as a proxy for the overall market. Observed increases or decreases in value are not necessarily applicable to any specific aircraft make/model. For the value of a specific aircraft, please contact a licensed aircraft appraiser.

Business jet bluebook values declined 5.2 percent in Q4 2020 after transaction markets were disrupted by COVID-19 earlier in the year. However, when compared to the 2008 financial crisis or to the disruptions to the business jet market in 2016 following the decline of

commodity values, prices remain relatively stable. Lower transaction activity early in the pandemic in 2020, including some motivated sellers willing to take lower prices, may have had an outsized effect on the valuations of certain models.

While the market continues to react to a dynamic global situation, initial conclusions on value trends can be drawn. Ultralong-range jets have declined in value, while the value of newer smaller and medium jets has been more stable. Buyers are reentering the market and inventory has trended downward, a factor that may lead to more stable prices moving forward. A number of factors, most importantly the pace of return to a more normal travel environment, will determine the trajectory of values in 2021.

## CONCLUSION

Throughout 2020, the business jet industry remained healthier than many thought possible at the early stages of the pandemic, demonstrating a new level of production discipline, maturity, and stability. As a result, Q4 2020 was a strong quarter for the business jet market. Led by a recovery in pre-owned transactions, both unit and dollar volume in the quarter were at their highest levels in at least three years. Consequently, pre-owned aircraft inventories declined to near historic lows. In addition, flight operations continued their gradual improvement as new-to-business-aviation customers continue to enter the market.

Going forward, uncertainty will linger as the world continues to deal with the fallout from the COVID-19 pandemic and the race to vaccinate the population. Continued recovery will be tied to recovery from COVID-19.

## Notes:

- i. Oxford Economics
- ii. Oxford Economics
- iii. The Carlyle Group
- iv. U.S. FAA
- v. The Weekly of Business Aviation | Aviation Week Network
- vi. Jet Aviation | Jet Aviation Increases Charter Services
- vii. Private Jet Card Comparisons
- viii. Company financial reports

- ix. Company financial reports and earnings calls
- x. JetNet and Global Jet Capital analysis. Units are in parentheses
- xi. JetNet and Global Jet Capital analysis
- xii. Company financial reports
- xiii. Amstat and Global Jet Capital Analysis
- xiv. JetNet and Global Jet Capital Analysis
- xv. Aircraft Bluebook and Global Jet Capital analysis



# Marubeni Aerospace

## JAPAN'S LEADING AVIATION COMPANY



- Gulfstream Representative
- HondaJet Dealer
- Aircraft Consulting
- Maintenance Support



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E-mail: [OPS@jpn.asp.marubeni.co.jp](mailto:OPS@jpn.asp.marubeni.co.jp)

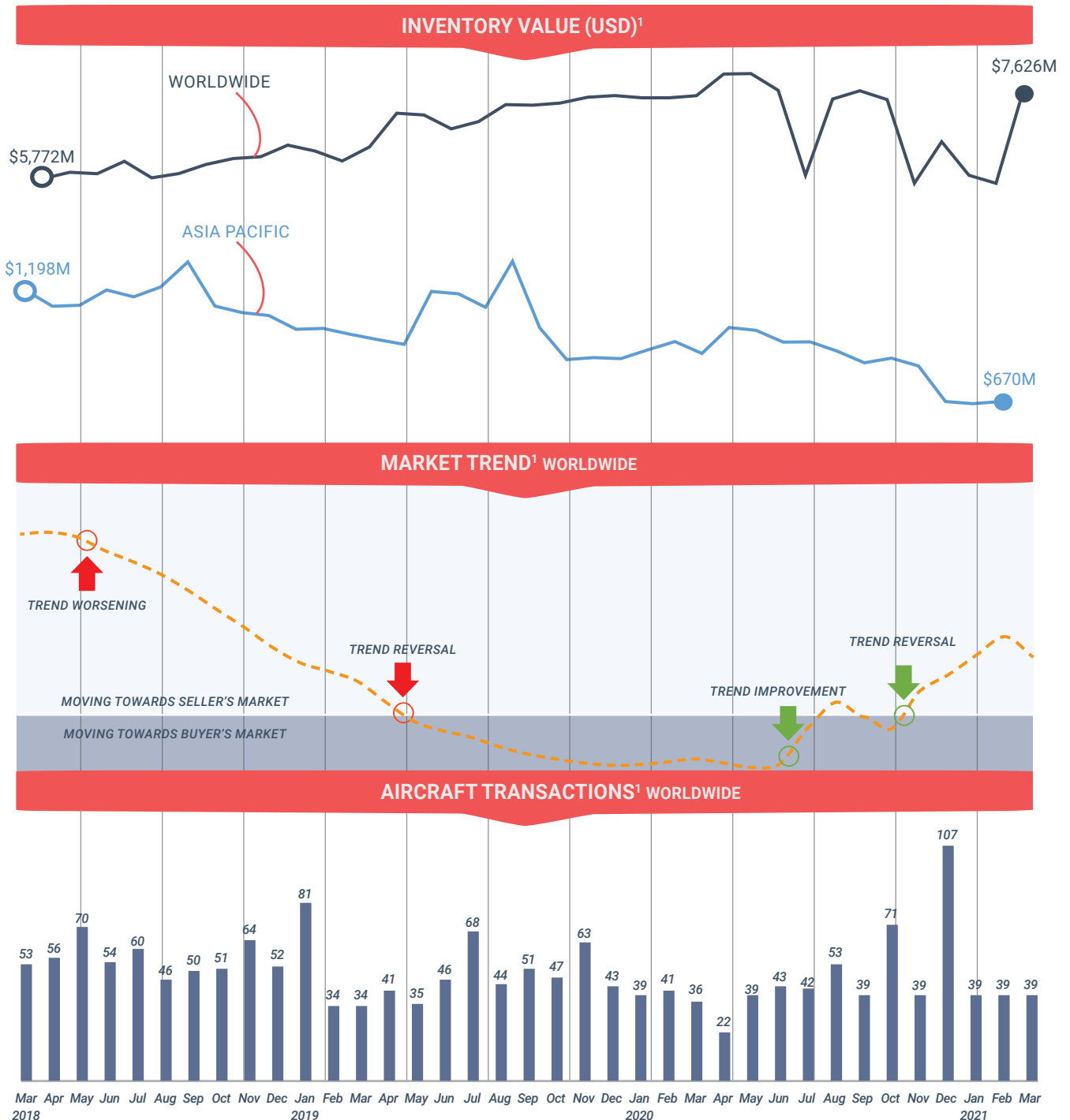
Web: <https://www.marubeni-aerospace.co.jp/en/>

# MARKET DYNAMICS

## PRE-OWNED BUSINESS JET MARKET Q1 2021

### Understanding the market dynamics graphs:

-  The Inventory Value Line represents the number of aircraft actively being marketed for sale in USD terms.<sup>2</sup>
-  The Signal Line represents an indication of where the market's direction may be heading in the future.

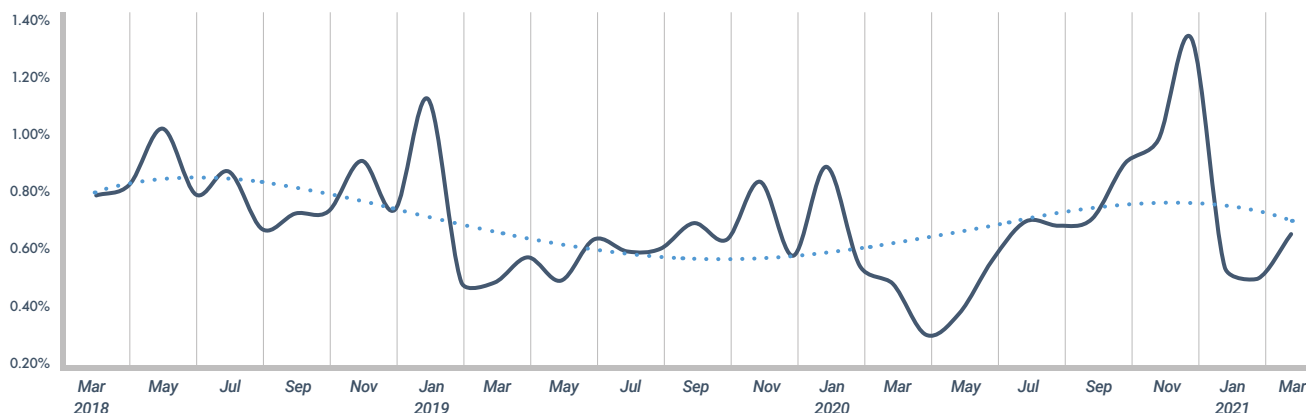


<sup>1</sup> The historical inventory value and transactions are subject to change based on latest market information updates.

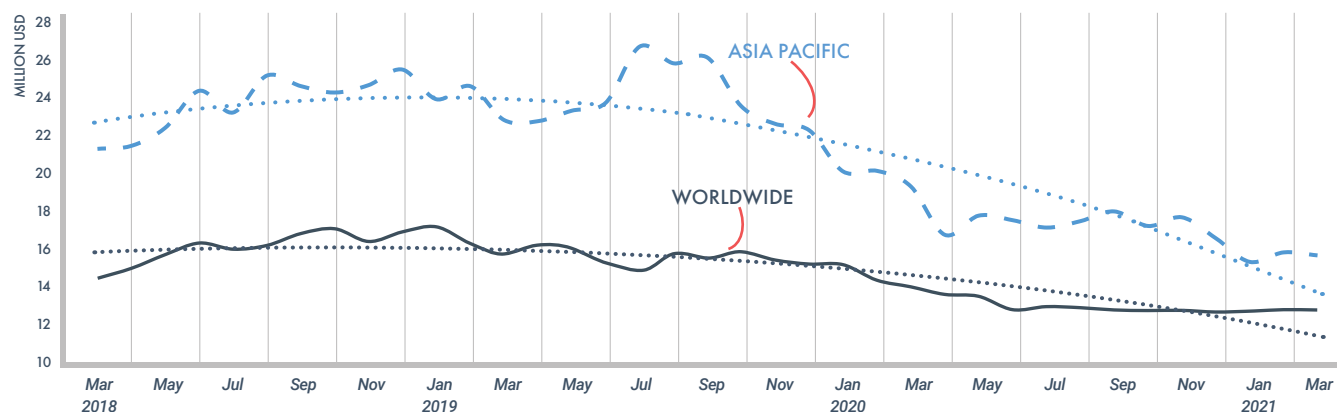
<sup>2</sup> ASG's Inventory Value line is calculated by taking the total number of aircraft for sale from a selection of 39 different models, multiplied by their average asking prices.



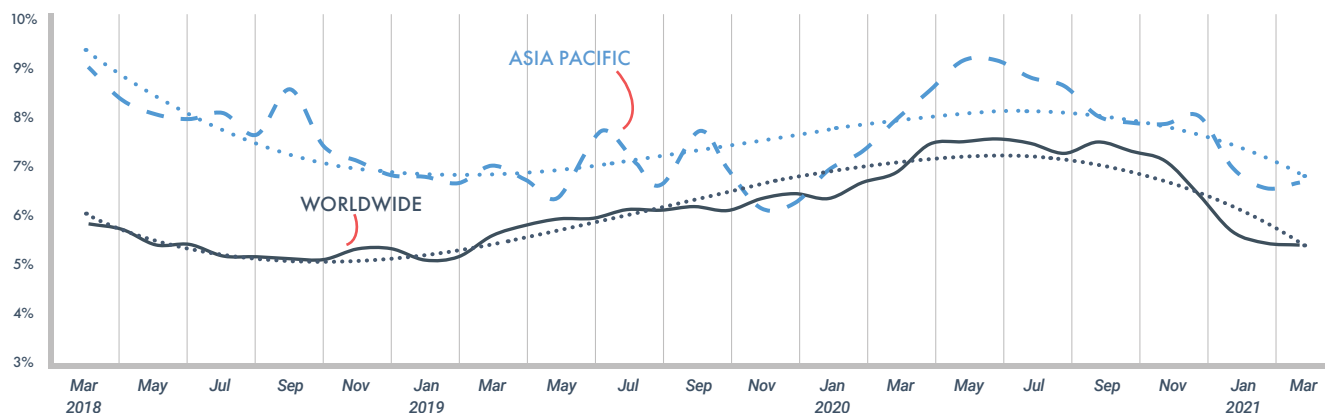
## WORLDWIDE % OF FLEET SOLD



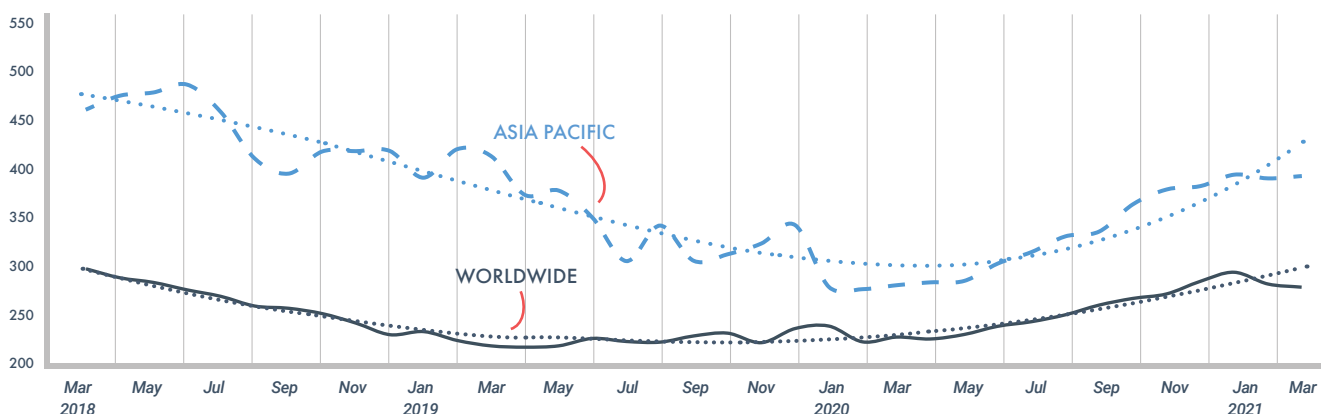
## AVERAGE ASKING PRICE



## % OF FLEET FOR SALE



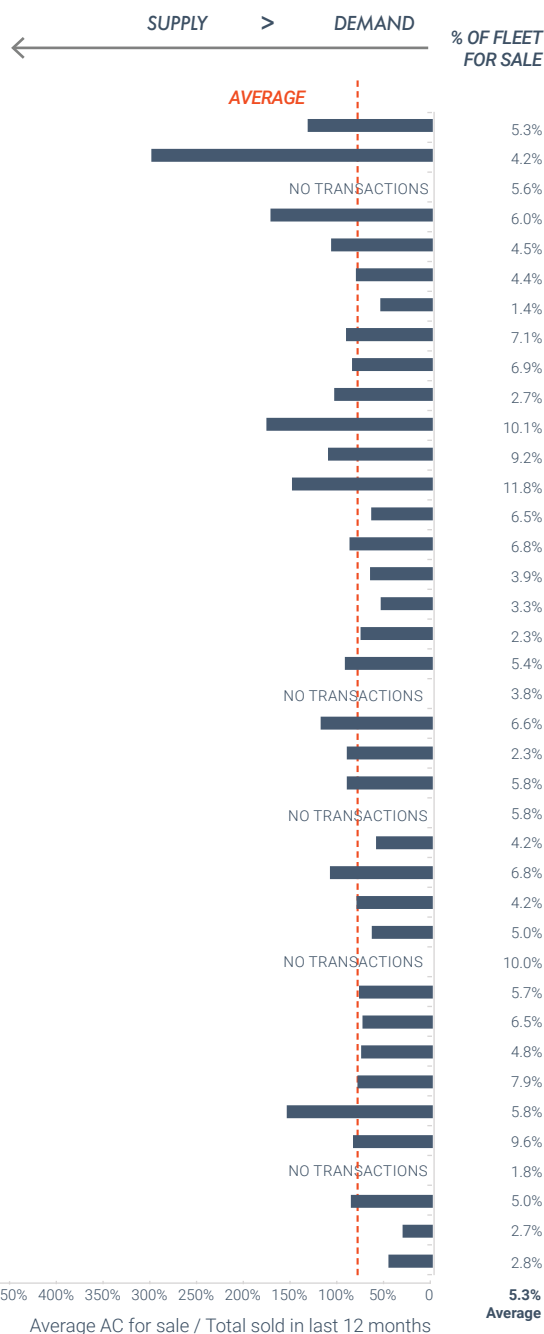
## AVERAGE DAYS ON MARKET



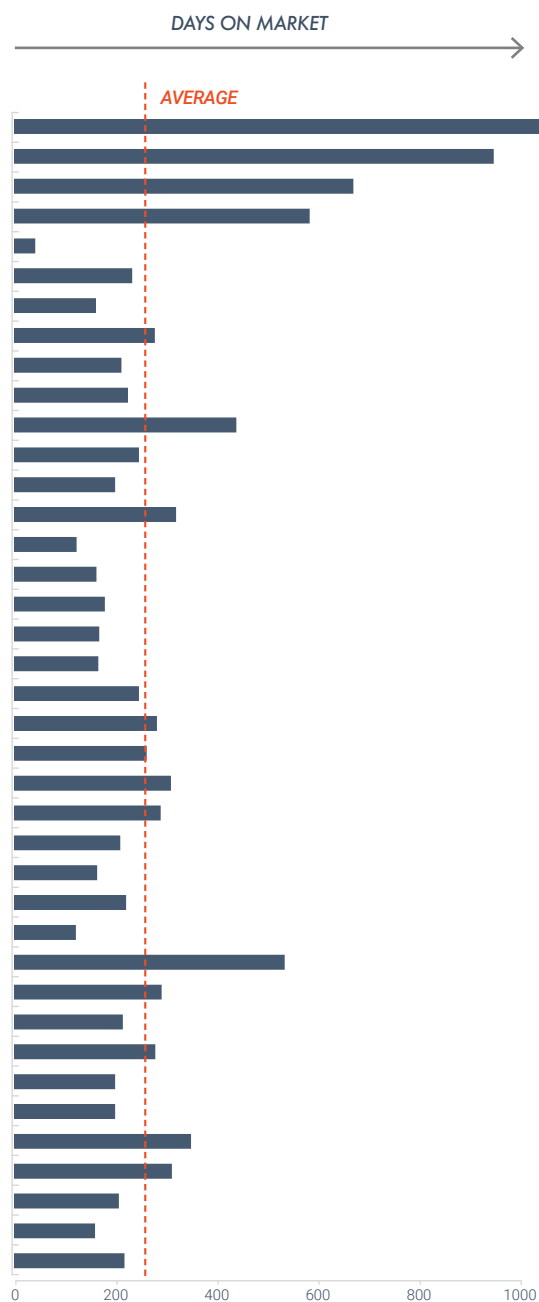
# SUPPLY / DEMAND INDICATORS

## BUSINESS JETS

### SUPPLY VS. DEMAND RATIO



### AVERAGE DAYS ON MARKET



The above chart reflects where certain aircraft models are positioned in terms of supply and demand (based on a ratio of completed transactions compared to the number of sellers and the average number of days on the market for a transaction to take place).

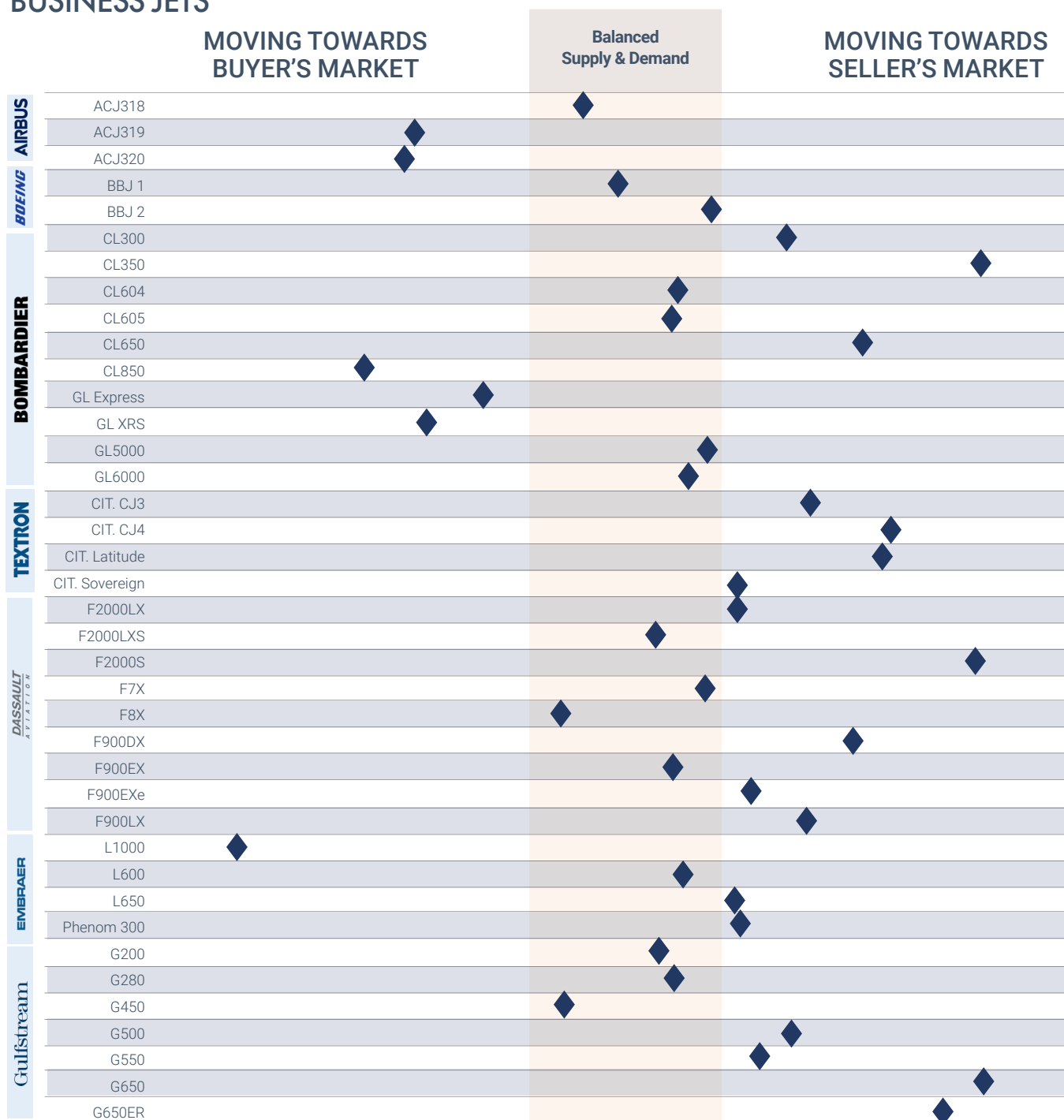
For some model types, given the market indicators shown on the previous page, the stabilization in pre-owned asking prices and decline in inventory level appear to have stimulated increased demand, leading to an increase in transactions and a more balanced state of supply and demand.

These indications do not necessarily mean that prices will be higher in the future, but it does indicate that sellers of these particular models are more likely to find willing buyers in a shorter period of time than the overall average.

This can be seen most with certain Gulfstream aircraft (G200, G450, G550, G650), Bombardier models (Challenger 604/605 & Global 5000) and Dassault Falcon models (2000 Series and 7X), where more transactions are occurring relative to the number for sale, and transactions are requiring less time on the market for sellers to complete.

# MARKET POSITIONING

## BUSINESS JETS



The above chart provides a visual representation of the Supply / Demand Ratio of each aircraft model relative to the overall market, and is based on a 'Marketability' calculation for each particular model including the following four market indicators:

1. The percentage of aircraft for sale relative to its fleet size.
2. The number of aircraft sold relative to the average number for sale.
3. The average days for sale relative to the overall market average.
4. The momentum of the marketplace (represented by the trend towards supply and demand market equilibrium portrayed earlier).



When taking into account these four factors, most of the the large and medium sized jets, such as Challenger 600, Falcon 2000 & 900 Series, as well as the various Gulfstream models, appear better positioned to find buyers available, compared to corporate airliner models.

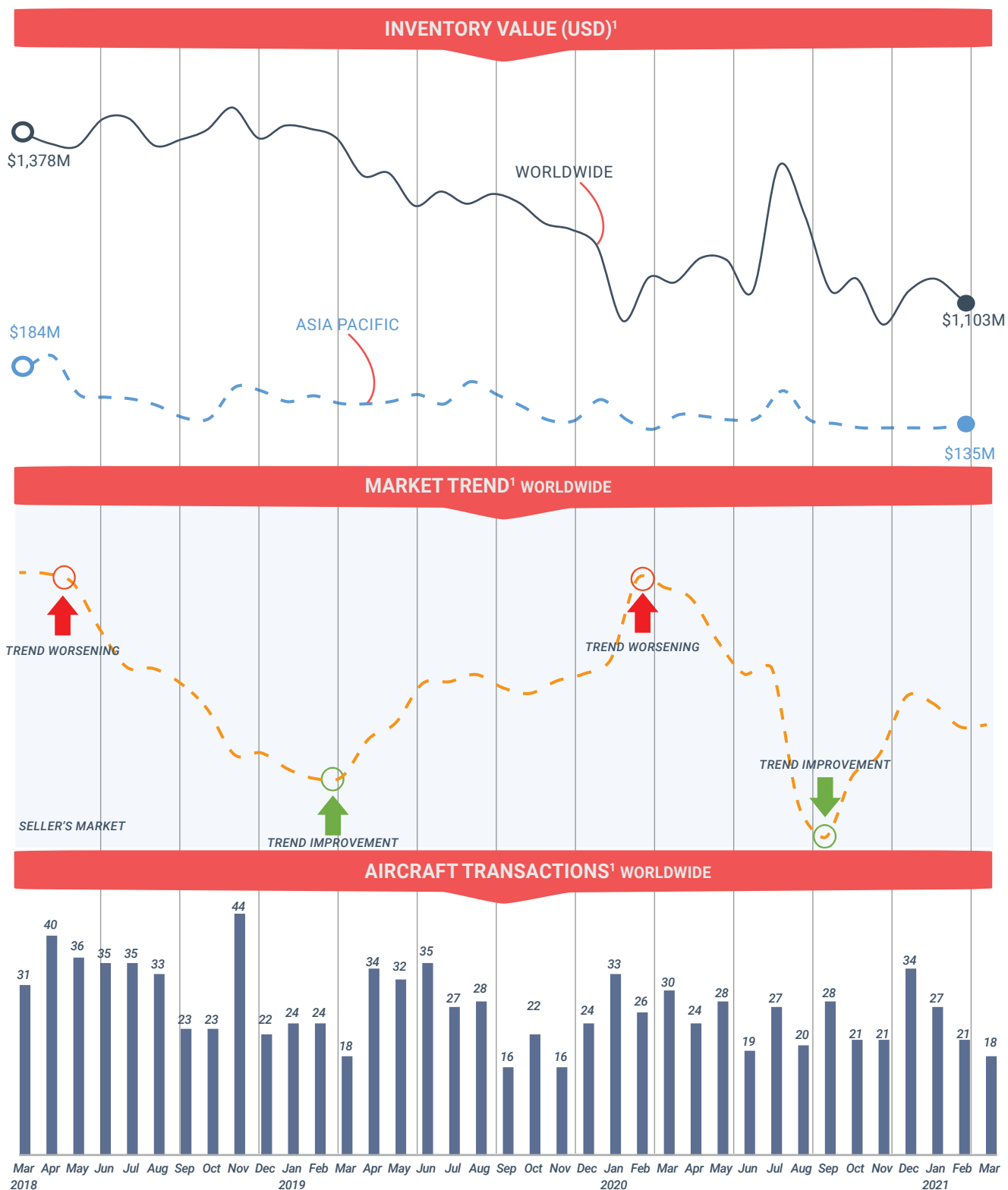
\* Since 2019 Q3, ASG expanded its market research scope to include 39 business jet models including light jet models as described in the report.



# PRE-OWNED HELICOPTERS MARKET Q1 2021

## Understanding the market dynamics graphs:

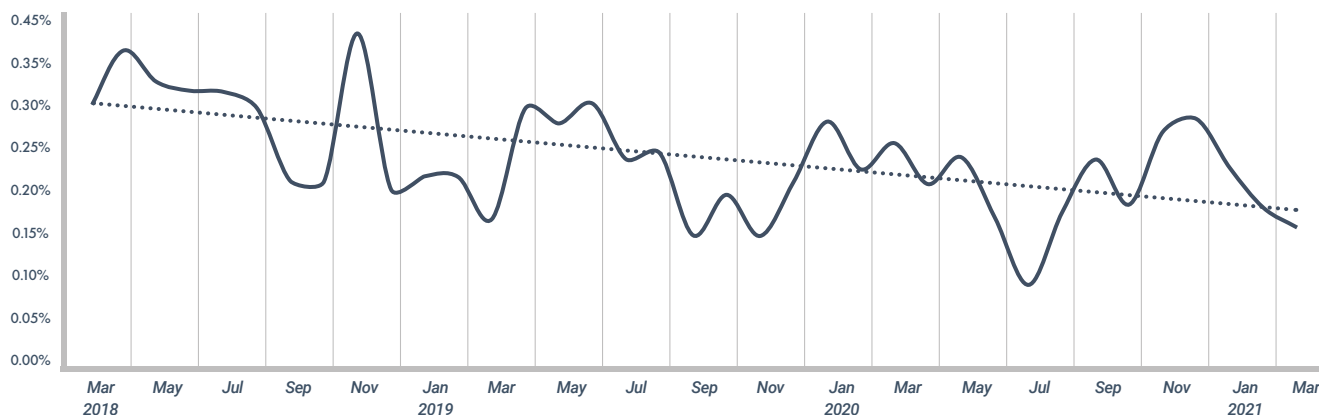
-  The Inventory Value Line represents the number of aircraft actively being marketed for sale in USD terms.<sup>2</sup>
-  The Signal Line represents an indication of where the market's direction may be heading in the future.



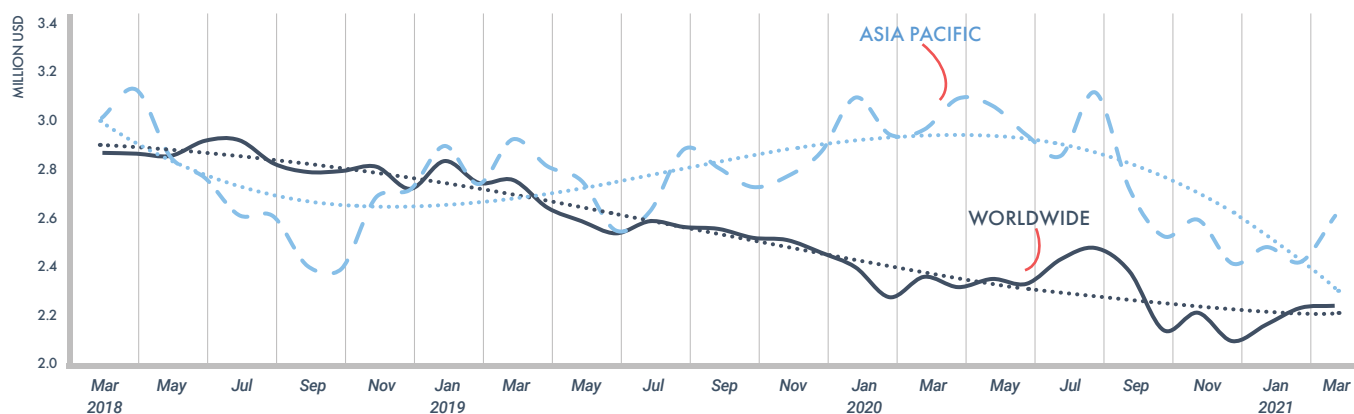
<sup>1</sup> The historical inventory value and transactions are subject to change based on latest market information updates.

<sup>2</sup> ASG's Inventory Value line is calculated by taking the total number of aircraft for sale from a selection of 39 different models, multiplied by their average asking prices.

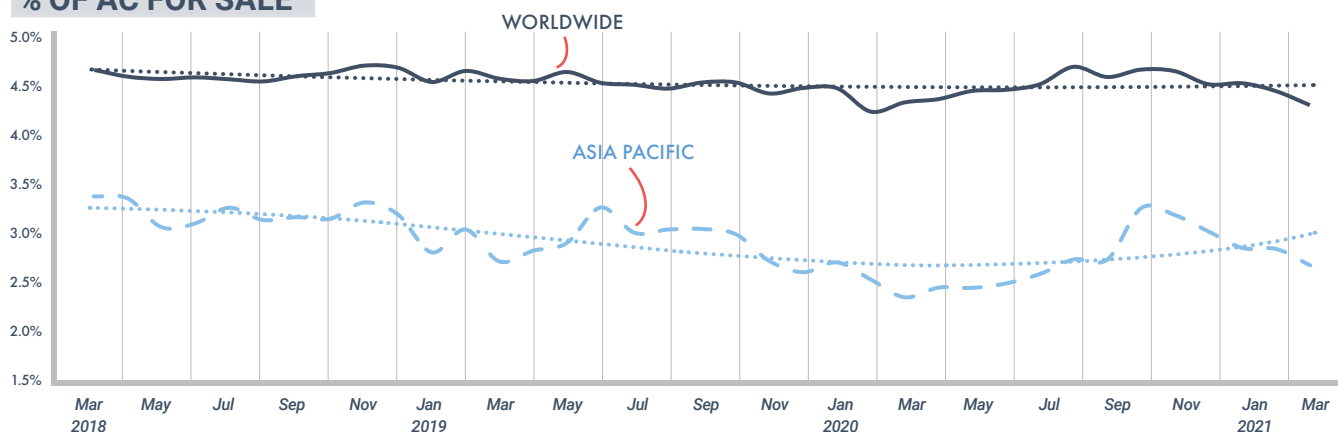
## % OF AC SOLD / TOTAL AC IN OPERATION



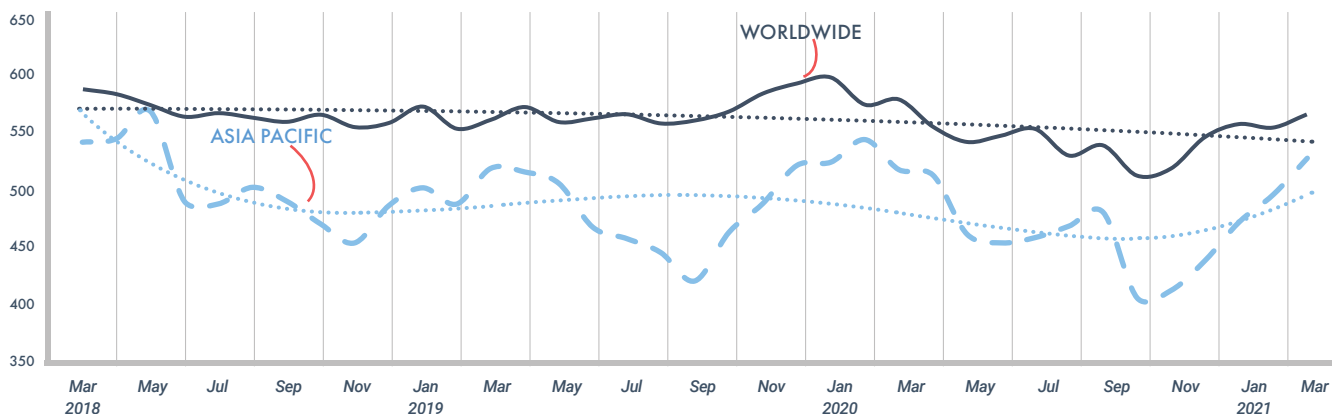
## AVERAGE ASKING PRICE



## % OF AC FOR SALE



## AVERAGE DAYS ON MARKET

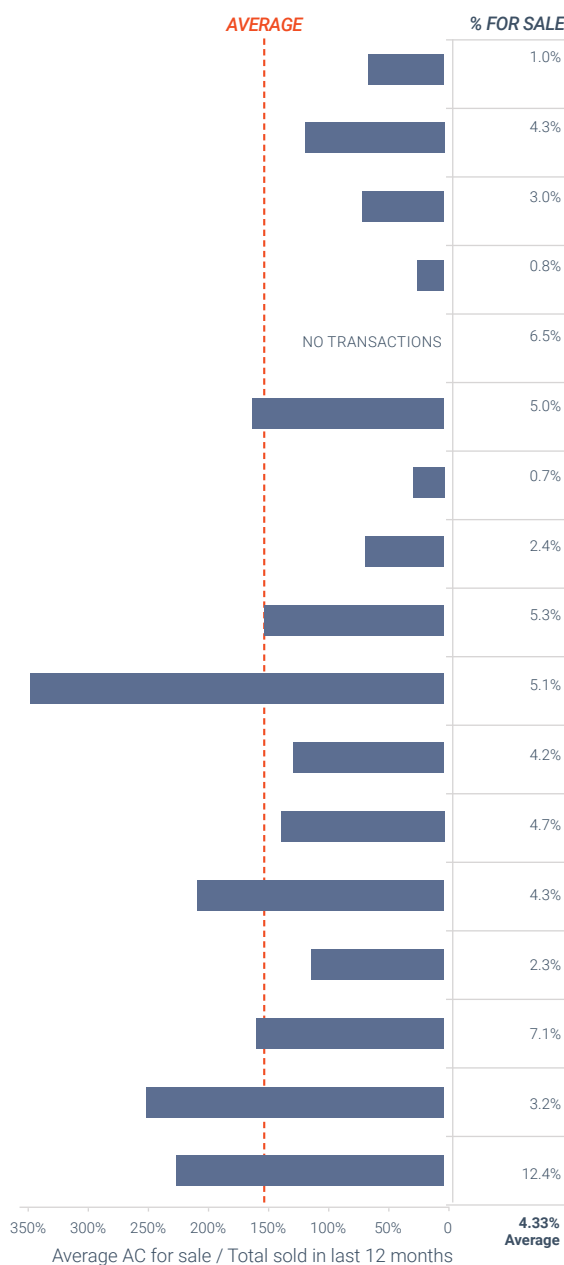


# MARKET POSITIONING

## HELICOPTERS

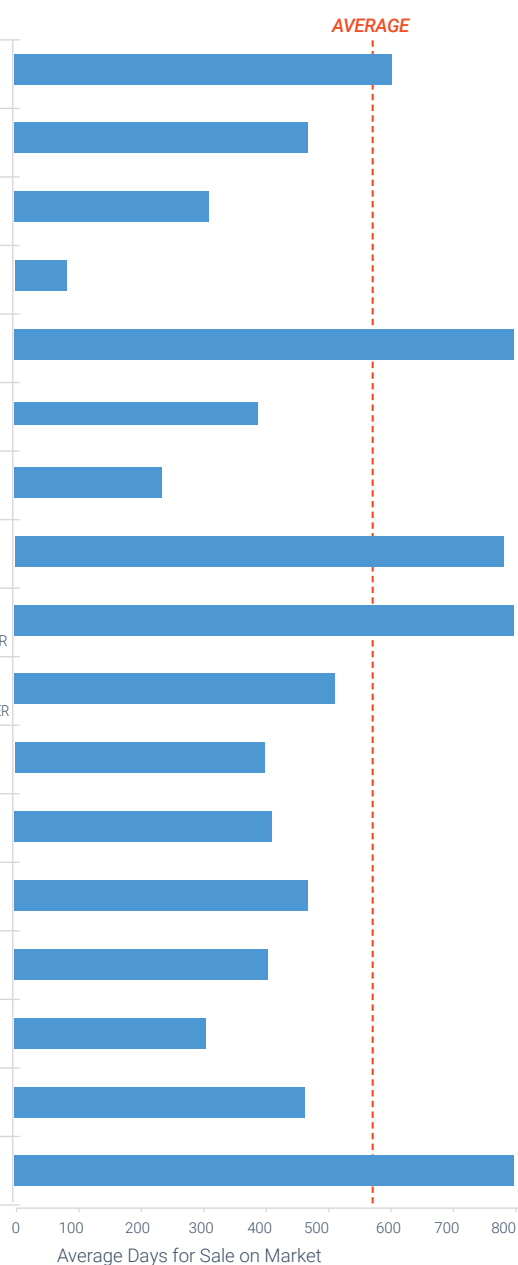
### SUPPLY VS. DEMAND RATIO

SUPPLY > DEMAND



### SUPPLY / DEMAND INDICATORS

DAYS ON MARKET



The above chart reflects where certain aircraft models are positioned in terms of supply and demand (based on a ration of completed transactions compared to the number of sellers, and average number of days on the market for a transaction to take place).



# MARKET POSITIONING

## HELICOPTERS

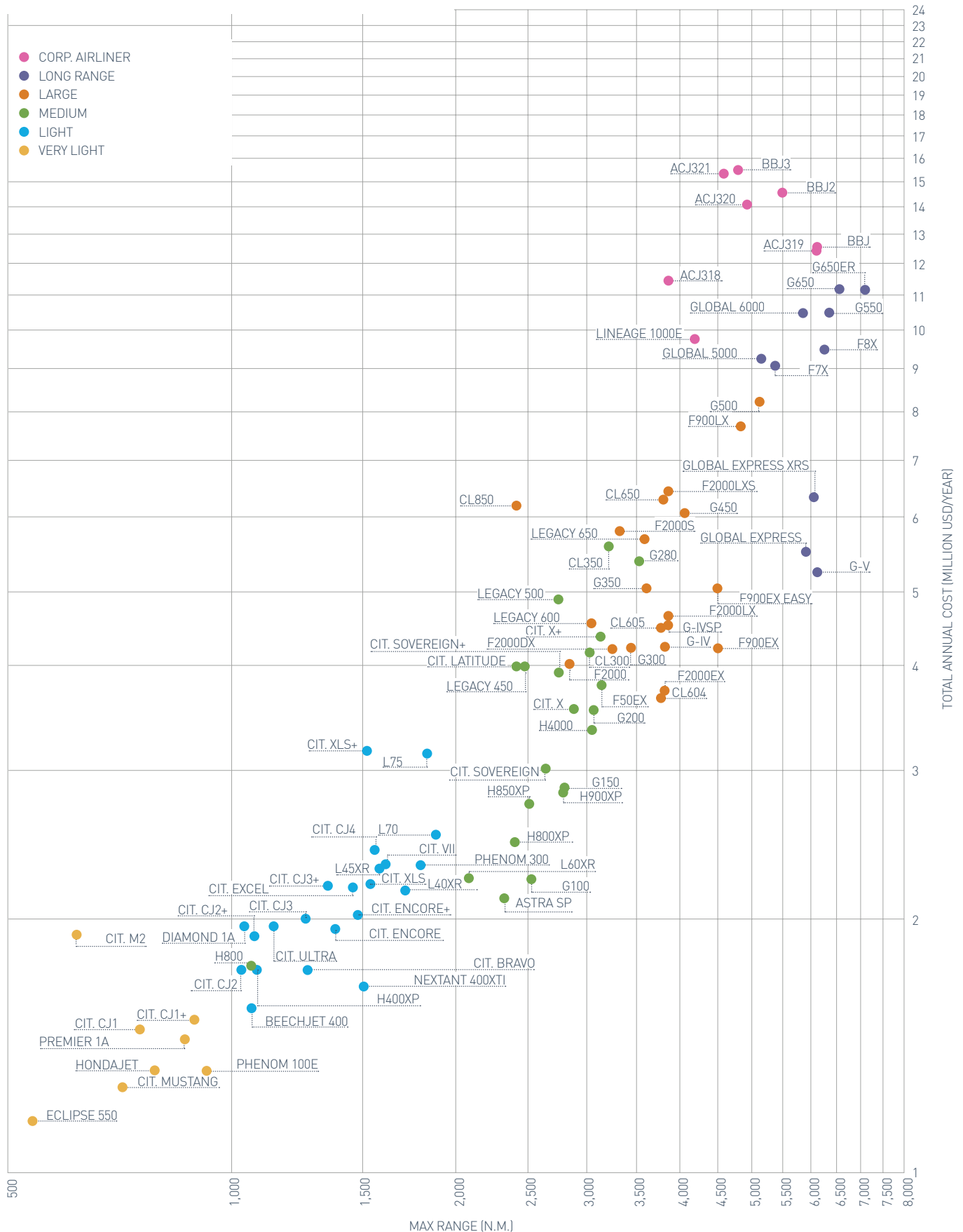


The above chart provides a visual representation of the Supply / Demand Ratio of each aircraft model relative to the overall market, resulting in a 'Marketability' calculation of each particular model based on the following four market indicators:

1. The percentage of aircraft for sale relative to its fleet size.
2. The number of aircraft sold relative to the average number for sale.
3. The average days for sale relative to the overall market average.
4. The momentum of the marketplace (represented by the trend towards supply and demand market equilibrium portrayed earlier).

# AIRCRAFT POSITIONING - BUSINESS JET

## AIRCRAFT ACQUISITION VS. MAX RANGE



\* The estimated total yearly cost is based on aircraft ownership cost for 10 years including financing, plus annual operating costs and regional adjustments.

Source: Conklin & de Decker

# MARKET SUMMARY PER MODEL – BUSINESS JETS

## INVENTORY LEVEL, PRICE TREND & TRANSACTIONS

### ACJ318, ACJ319 & ACJ320

#### PERFORMANCE

Max Range

#### ACJ318

4,253 N.M. /7,877 km

Max Speed

Mach 0.82

Typ. Passengers

19

#### ACJ319

6,000 N.M. /11,112 km

Mach 0.82

19

#### ACJ320

5,250 N.M. /9,723 km

Mach 0.82

19

#### SUPPLY

No. for Sale

2021 Mar

1 (5.3%)

2020 Dec

3 (15.8%)

2021 Mar

3 (4.2%)

2020 Dec

3 (4.2%)

2021 Mar

1 (5.6%)

2020 Dec

1 (5.6%)

Avg Asking Price

25.0M USD

23.0M USD

42.0M USD

42.0M USD

39.5M USD

39.5M USD

Avg Days on Market

613

1,210

1,112

1,022

931

841

#### TRANSACTION

Past 12 Months

2

1

1

1

0

0

Past 3 Months

1

1

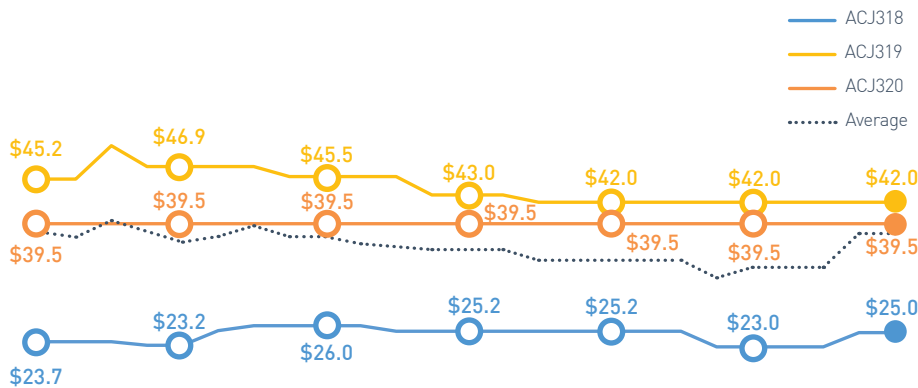
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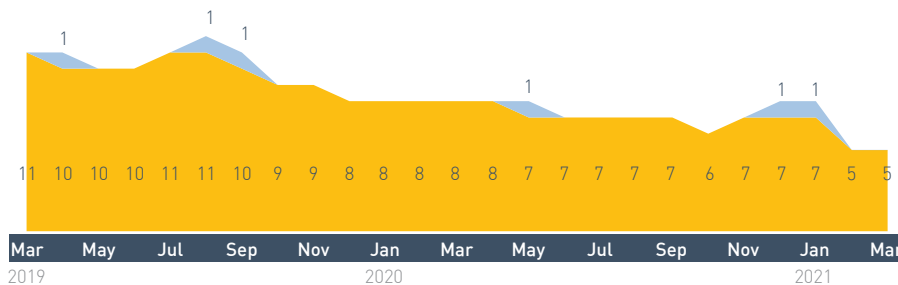
0

Average Asking Price



For Sale vs. Sold

Sold For Sale



#### Market Indicators (vs. Last Quarter)

##### ACJ318

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

##### ACJ319

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

##### ACJ320

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

Source: AMSTAT & ASG





## BBJ &amp; BBJ2

## PERFORMANCE

Max Range

## BBJ

6,235 N.M. / 11,547 km

Max Speed

Mach 0.82

Typ. Passengers

19

## BBJ2

5,620 N.M. / 10,408 km

Mach 0.82

19

## SUPPLY

No. for Sale

2021 Mar

8 (6.0%)

2020 Dec

7 (5.3%)

2021 Mar

1 (4.5%)

2020 Dec

1 (4.5%)

Avg Asking Price

28.5M USD

22.3M USD

90.0M USD

90.0M USD

Avg Days on Market

372

325

314

224

## TRANSACTION

Past 12 Months

2021 Mar

4

2020 Dec

4

2021 Mar

1

2020 Dec

1

Past 3 Months

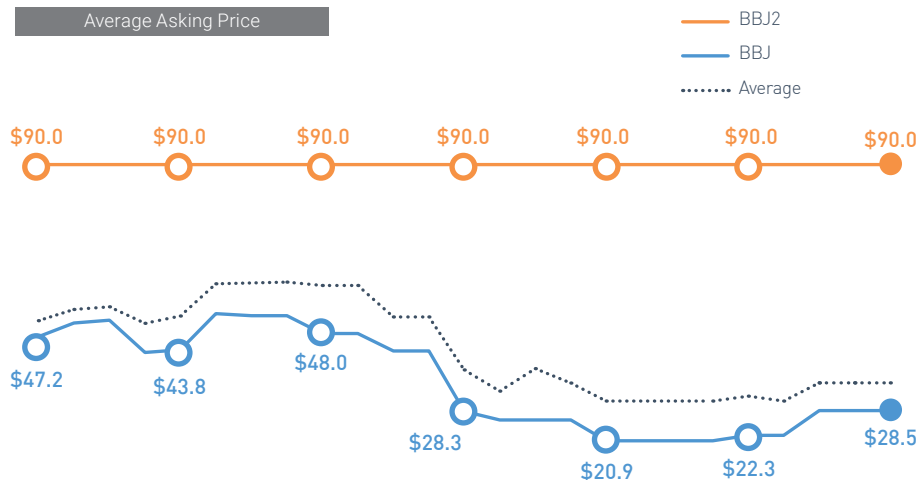
0

0

0

0

Average Asking Price



Market Indicators (vs. Last Quarter)

## BBJ

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## BBJ2

Transaction Level (Past 12 Months)

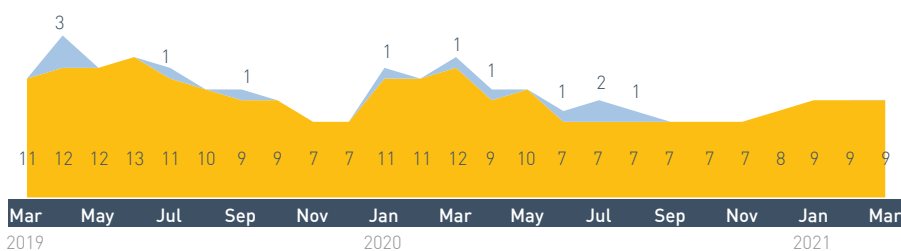
Inventory Level

Average Asking Price

Average Days on Market

For Sale vs. Sold

Sold For Sale



Source: AMSTAT &amp; ASG

## FEATURED AIRCRAFT



### BBJ SN37111

**TOTAL HOURS: 3,187 SINCE NEW**  
**TOTAL CYCLES: 947 SINCE NEW**

- High Quality Alberto Pinto Design Interior
- 18 Passenger Seats Certified for Takeoff, Taxi and Landing
- Interior Completed by Associated Air Center in 2010
- Engine Enrolled on GE OnPoint Program (Full Warranty)
- 7 Auxiliary Fuel Tank System
- Lower Cabin Alt Modification
- Full Internet and wireless Lan System throughout the Cabin

# CHALLENGER 300 & 350

## PERFORMANCE

Max Range

### CL300

3,340 N.M. /6,185 km

Max Speed

Mach 0.82

Typ. Passengers

19

### CL350

3,421 N.M. /6,335 km

Mach 0.82

19

## SUPPLY

No. for Sale

2021 Mar

20 (4.4%)

2020 Dec

25 (5.5%)

2021 Mar

5 (1.4%)

2020 Dec

4 (1.1%)

Avg Asking Price

8.1M USD

9.2M USD

15.7M USD

15.6M USD

Avg Days on Market

206

256

84

114

## TRANSACTION

Past 12 Months

2021 Mar

31

2020 Dec

24

2021 Mar

14

2020 Dec

12

Past 3 Months

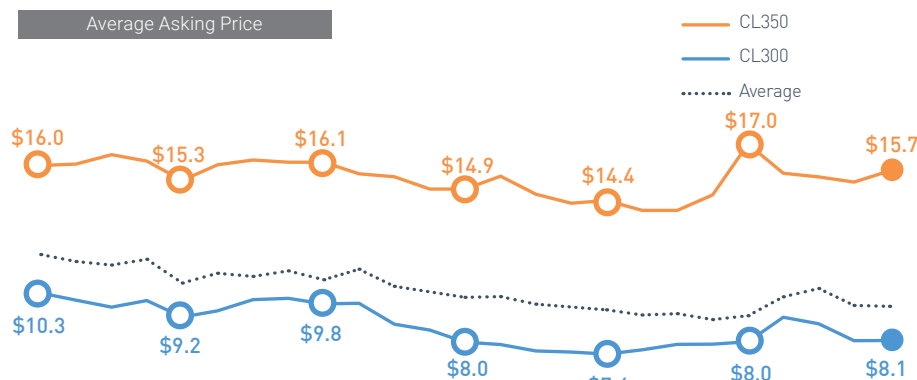
7

10

2

6

Average Asking Price



Market Indicators (vs. Last Quarter)

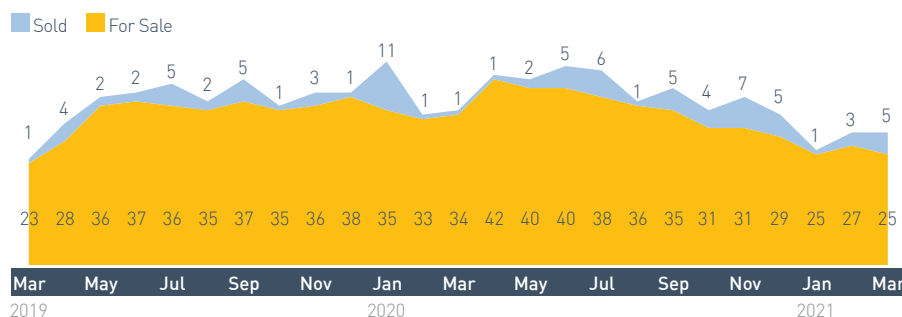
### CL300

- ↑ Transaction Level (Past 12 Months)
- ↓ Inventory Level
- ↓ Average Asking Price
- ↓ Average Days on Market

### CL350

- ↑ Transaction Level (Past 12 Months)
- ↑ Inventory Level
- ↑ Average Asking Price
- ↓ Average Days on Market

For Sale vs. Sold



Source: AMSTAT &amp; ASG



## CHALLENGER 604, 605 &amp; 650

## PERFORMANCE

Max Range

## CL604

4,027 N.M. / 7,458 km

Max Speed

Mach 0.82

Typ. Passengers

9

## CL605

4,123 N.M. / 7,635 km

Mach 0.82

9

## CL650

4,123 N.M. / 7,635 km

Mach 0.82

10

## SUPPLY

No. for Sale

2021 Mar

25 (7.1%)

2020 Dec

26 (7.3%)

2021 Mar

20 (6.9%)

2020 Dec

29 (10.1%)

2021 Mar

3 (2.7%)

2020 Dec

4 (3.7%)

Avg Asking Price

4.6M USD

4.1M USD

8.1M USD

8.8M USD

16.5M USD

16.5M USD

Avg Days on Market

218

292

269

240

96

200

## TRANSACTION

Past 12 Months

2021 Mar

31

2020 Dec

25

2021 Mar

34

2020 Dec

25

2021 Mar

5

2020 Dec

4

Past 3 Months

6

13

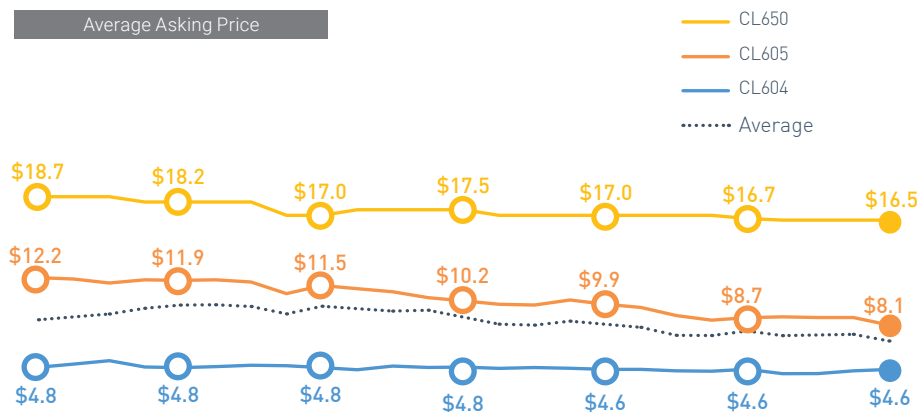
9

16

1

2

Average Asking Price



Market Indicators (vs. Last Quarter)

## CL604

- ↑ Transaction Level (Past 12 Months)
- ↓ Inventory Level
- ↑ Average Asking Price
- ↓ Average Days on Market

## CL605

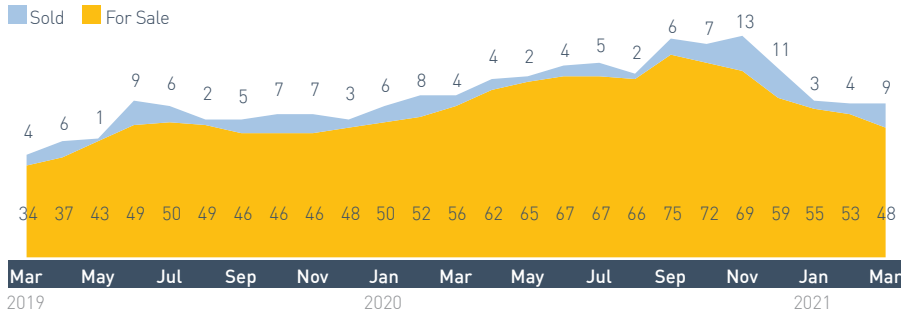
- ↑ Transaction Level (Past 12 Months)
- ↓ Inventory Level
- ↓ Average Asking Price
- ↑ Average Days on Market

## CL650

- ↑ Transaction Level (Past 12 Months)
- ↓ Inventory Level
- = Average Asking Price
- ↓ Average Days on Market

For Sale vs. Sold

Sold For Sale



Source: AMSTAT &amp; ASG

## FEATURED AIRCRAFT



### CHALLENGER 650 SN 6131

**TOTAL HOURS: 734 SINCE NEW**  
**TOTAL CYCLES: 332 SINCE NEW**

- Always Hangared
- Mint Condition with Very Low Hours Since New
- 11 Passengers & Belted Lav Configuration with Fwd Galley
- Original OEM Warranty: 5 Years Airframe & 2 Years Interior
- 2020 Avionics Ready: FANS 1A+, ADS-B Out, CPDLC & TCAS II 7.1
- Satellite Communication System
- ELT, CVR & FDR
- Eligible for Engine & APU Program Enrollment

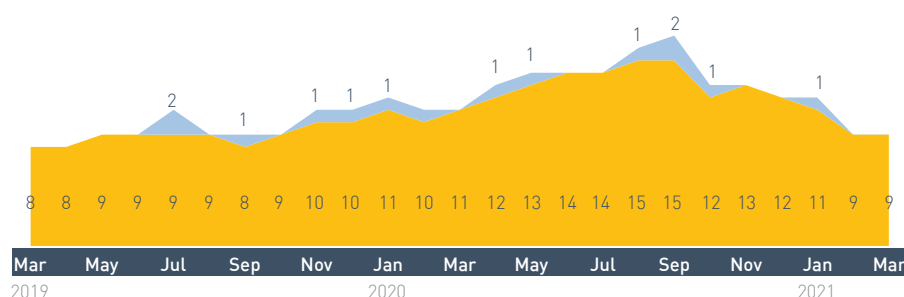
## CHALLENGER 850

Average Asking Price



For Sale vs. Sold

■ Sold ■ For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑  
 Inventory Level ↓  
 Average Asking Price ↑  
 Average Days on Market ↑

## PERFORMANCE

Max Range 6,750 N.M. / 12,501 km  
 Max Speed Mach 0.87  
 Typ. Passengers 18

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	9 (10.1%)	12 (13.3%)
Avg Asking Price	5.0M USD	4.6M USD
Avg Days on Market	709	538

## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	7	6
Past 3 Months	1	1

Source: AMSTAT &amp; ASG

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## GLOBAL EXPRESS, 5000, XRS &amp; 6000

## PERFORMANCE

Max Range  
Max Speed  
Typ. Passengers

## GLOBAL 5000

5,350 N.M. / 9,908 km  
Mach 0.82  
13

## GLOBAL EXPRESS

6,125 N.M. / 11,343 km  
Mach 0.82  
13

## GLOBAL XRS

6,226 N.M. / 11,520 km  
Mach 0.82  
13

## GLOBAL 6000

6,080 N.M. / 11,260 km  
Mach 0.82  
13

## SUPPLY

No. for Sale  
Avg Asking Price  
Avg Days on Market

2021 Mar

15 (6.5%)

2020 Dec

17 (7.3%)

15.0M USD

13.6M USD

289

379

2021 Mar

13 (9.2%)

8.0M USD

534

2020 Dec

19 (13.4%)

7.5M USD

374

2021 Mar

19 (11.8%)

14.9M USD

303

2020 Dec

21 (13.0%)

14.7M USD

234

2021 Mar

22 (6.8%)

26.0M USD

230

2020 Dec

23 (7.1%)

27.1M USD

210

## TRANSACTION

Past 12 Months  
Past 3 Months

2021 Mar

25

2020 Dec

18

7

7

2021 Mar

17

2

2020 Dec

15

7

2021 Mar

12

2

2020 Dec

10

4

2021 Mar

26

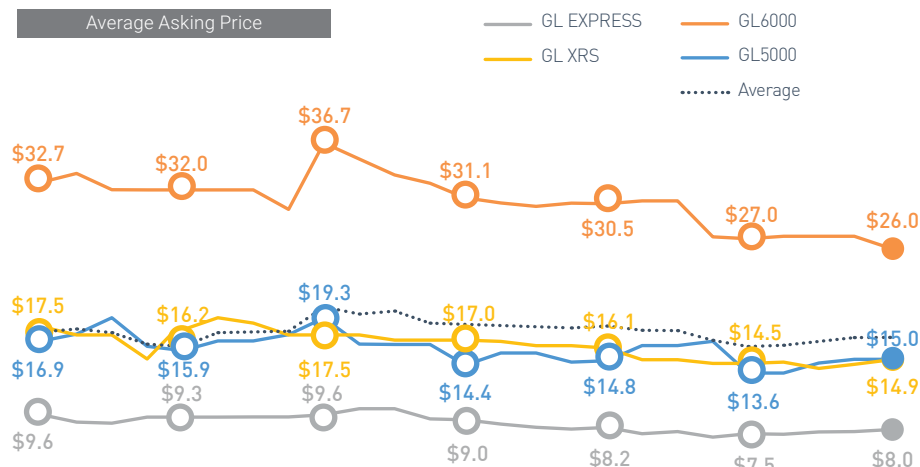
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2020 Dec

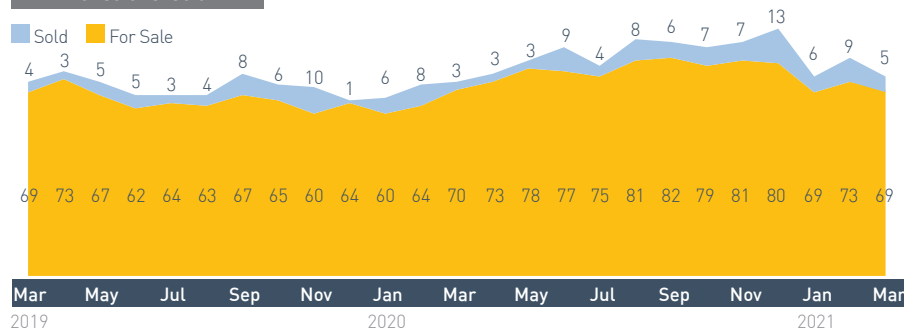
17

9

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

## GLOBAL 5000

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## GLOBAL EXPRESS

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## GLOBAL XRS

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## GLOBAL 6000

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

Source: AMSTAT &amp; ASG



## CITATION CJ3 &amp; CJ4

## PERFORMANCE

Max Range

Max Speed

Typ. Passengers

## Cit. CJ3

1,891 N.M. / 3,502 km

Mach 0.73

6

## Cit. CJ4

1,991 N.M. / 3,687 km

Mach 0.77

7

## SUPPLY

No. for Sale

Avg Asking Price

Avg Days on Market

2021 Mar

23 (3.9%)

2020 Dec

35 (6.0%)

4.3M USD

252

2021 Mar

11 (3.3%)

6.9M USD

152

2020 Dec

17 (5.2%)

5.5M USD

212

## TRANSACTION

Past 12 Months

Past 3 Months

2021 Mar

66

2020 Dec

59

2021 Mar

30

2020 Dec

23

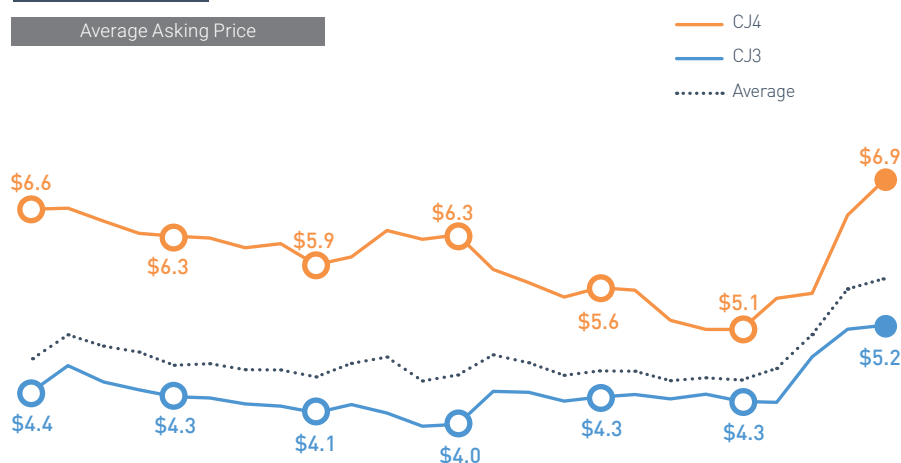
7

20

7

11

Average Asking Price



Market Indicators (vs. Last Quarter)

## Cit. CJ3

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## Cit. CJ4

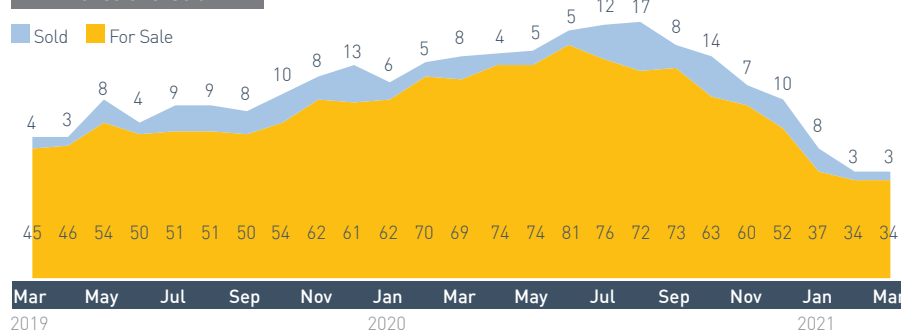
Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

For Sale vs. Sold



Source: AMSTAT &amp; ASG



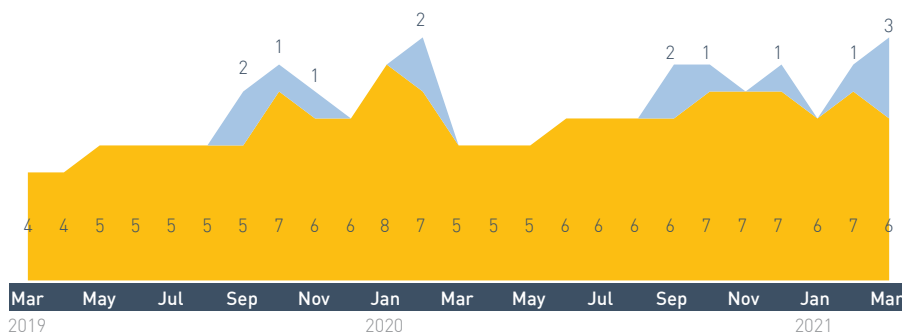
## CITATION LATITUDE

Average Asking Price



For Sale vs. Sold

■ Sold ■ For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	↓
Average Asking Price	=
Average Days on Market	↓

## PERFORMANCE

Max Range	2,870N.M. / 5,315 km
Max Speed	Mach 0.80
Typ. Passengers	9

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	6 (2.3%)	7 (2.9%)
Avg Asking Price	13.5M USD	13.5M USD
Avg Days on Market	160	199

## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	8	4
Past 3 Months	4	2

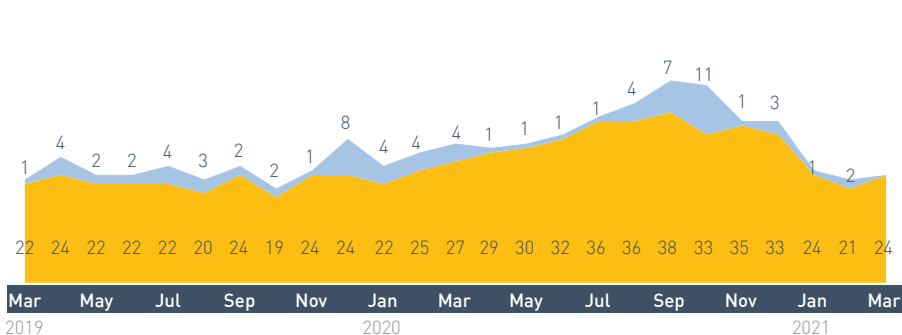
## CITATION SOVEREIGN

Average Asking Price



For Sale vs. Sold

■ Sold ■ For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	↓
Average Asking Price	↓
Average Days on Market	↓

## PERFORMANCE

Max Range	3,010N.M. / 5,574 km
Max Speed	Mach 0.80
Typ. Passengers	9

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	24 (5.4%)	33 (7.5%)
Avg Asking Price	5.7M USD	7.8M USD
Avg Days on Market	210	210

## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	33	30
Past 3 Months	3	15

Source: AMSTAT &amp; ASG

# FALCON 900DX/EX/EX EASy/LX

## PERFORMANCE

Max Range

### F900DX

4,100 N.M. /7,593 km

Max Speed

Mach 0.83

Typ. Passengers

12

### F900EX

4,500 N.M. /8,334 km

Mach 0.83

12

### F900EX EASy

4,500 N.M. /8,334 km

Mach 0.83

12

### F900LX

4,750 N.M. /8,800 km

Mach 0.83

12

## SUPPLY

No. for Sale

2021 Mar

1 (4.2%)

2020 Dec

1 (4.2%)

2021 Mar

8 (6.8%)

2020 Dec

9 (7.6%)

2021 Mar

5 (4.2%)

2020 Dec

8 (6.7%)

2021 Mar

4 (5.0%)

2020 Dec

2 (2.5%)

Avg Asking Price

12.3M USD

12.4M USD

7.5M USD

7.8M USD

11.4M USD

12.0M USD

17.5M USD

19.5M USD

Avg Days on Market

133

43

221

207

337

303

163

168

## TRANSACTION

Past 12 Months

2021 Mar

4

2020 Dec

4

2021 Mar

7

2020 Dec

6

2021 Mar

13

2020 Dec

10

2021 Mar

5

2020 Dec

4

Past 3 Months

0

1

1

3

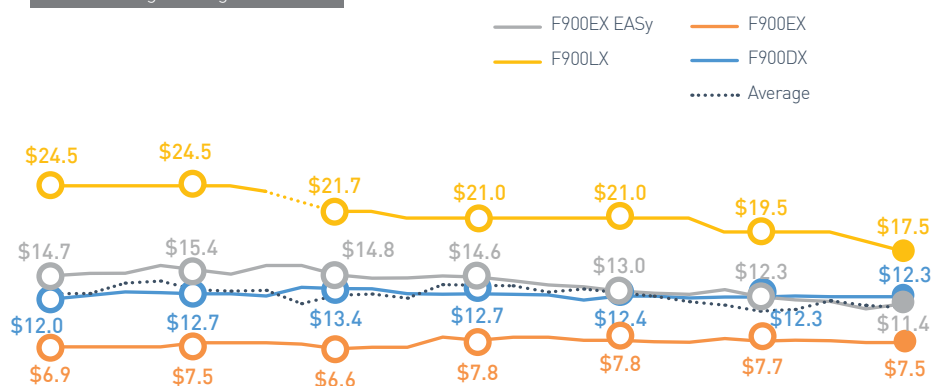
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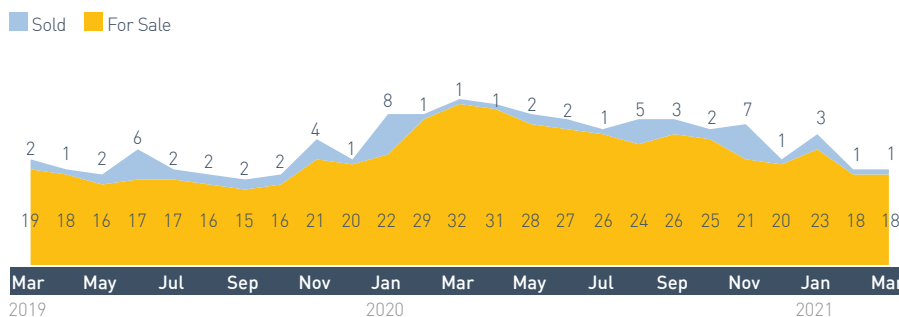
1

1

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

### F900DX

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

### F900EX

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

### F900EX EASy

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

### F900LX

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

Source: AMSTAT &amp; ASG





## FALCON 2000LX/LXS/S

## PERFORMANCE

Max Range

Max Speed

Typ. Passengers

## F2000LX

4,000 N.M. /7,408 km

Mach 0.83

10

## F2000LXS

4,000 N.M. /7,408 km

Mach 0.83

10

## F2000S

3,350 N.M. /6,208 km

Mach 0.83

10

## SUPPLY

No. for Sale

Avg Asking Price

Avg Days on Market

2021 Mar

5 (3.8%)

2020 Dec

7 (5.3%)

10.8M USD

194

2021 Mar

7 (6.9%)

19.6M USD

273

2020 Dec

7 (6.9%)

21.0M USD

272

2021 Mar

1 (2.3%)

27.7M USD

11

2020 Dec

1 (2.3%)

27.7M USD

440

## TRANSACTION

Past 12 Months

Past 3 Months

2021 Mar

10

3

2020 Dec

7

6

2021 Mar

6

3

2020 Dec

3

3

2021 Mar

1

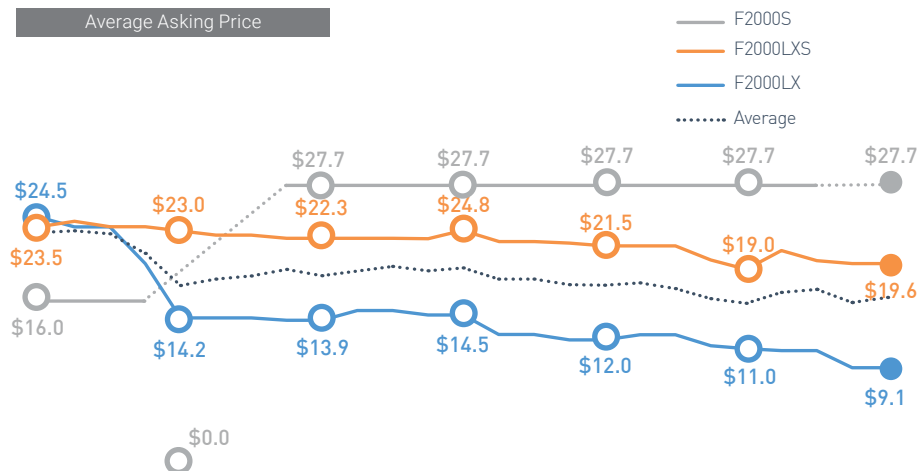
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2020 Dec

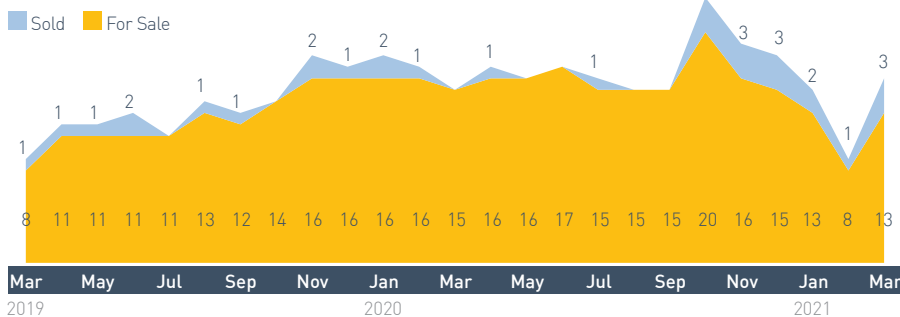
1

0

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

## F2000LX

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## F2000LXS

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

Average Days on Market

## F2000S

Transaction Level (Past 12 Months)

Inventory Level

Average Asking Price

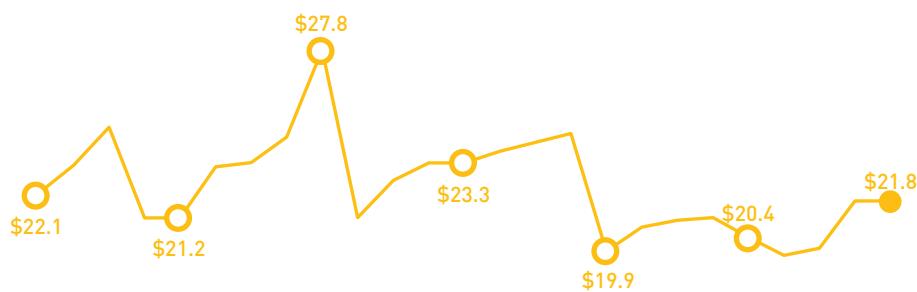
Average Days on Market

Source: AMSTAT &amp; ASG



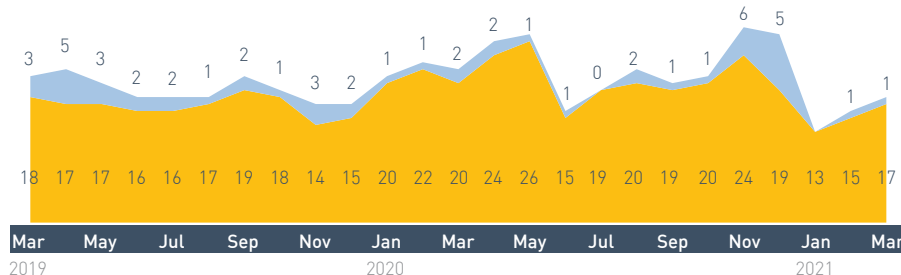
## FALCON 7X

## Average Asking Price



## For Sale vs. Sold

■ Sold ■ For Sale



## Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	↓
Average Asking Price	↑
Average Days on Market	↑

## PERFORMANCE

Max Range	5,950 N.M. / 11,018 km
Max Speed	Mach 0.90
Typ. Passengers	12

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	17 (5.8%)	19 (6.5%)
Avg Asking Price	21.8M USD	19.7M USD
Avg Days on Market	264	259

## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	21	19
Past 3 Months	2	12

Source: AMSTAT &amp; ASG

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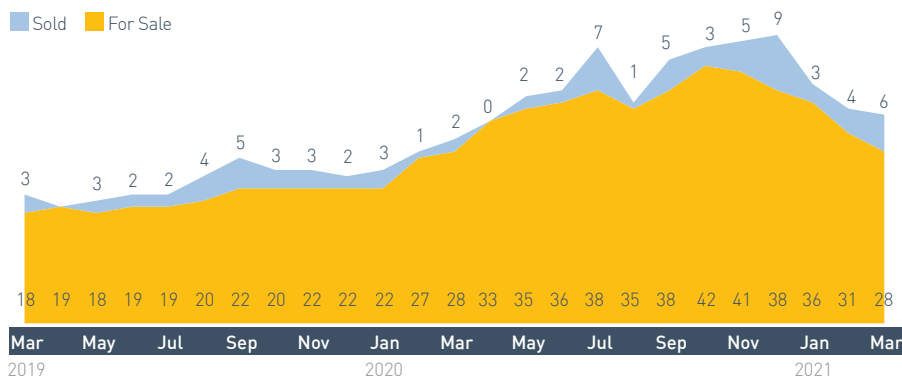
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## PHENOM 300

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	↓
Average Asking Price	↑
Average Days on Market	↑

## PERFORMANCE

Max Range	1,242 N.M. / 2,300 km
Max Speed	Mach 0.78
Typ. Passengers	5

## SUPPLY

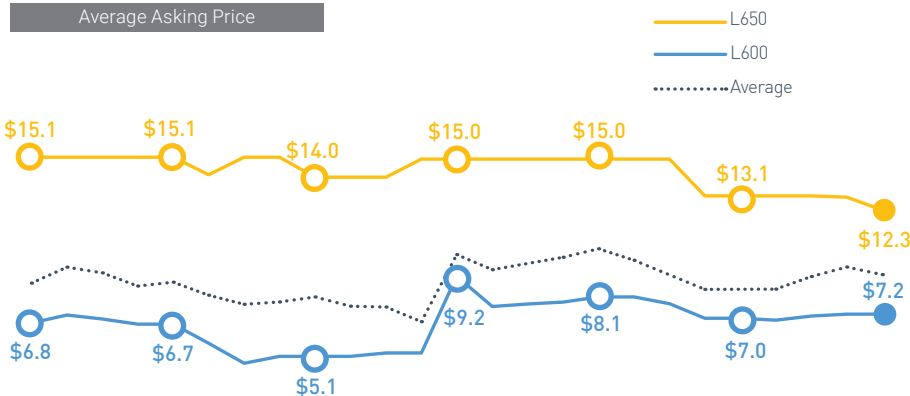
	2021 Mar	2020 Dec
No. for Sale	28 (4.8%)	38 (6.7%)
Avg Asking Price	7.1M USD	6.7M USD
Avg Days on Market	327	267

## TRANSACTION

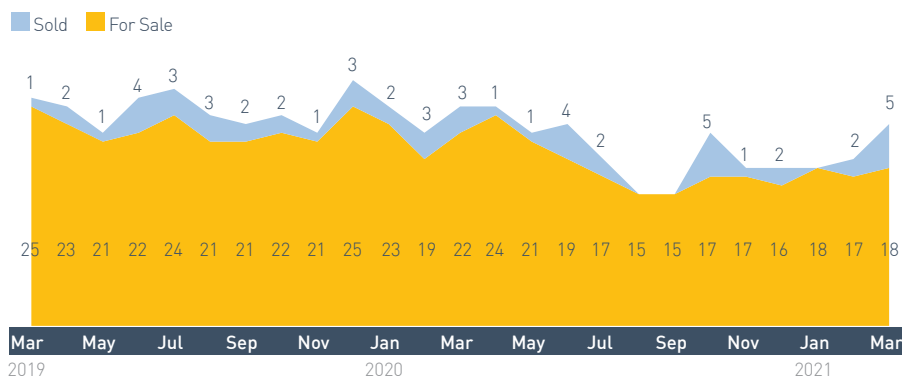
	2021 Mar	2020 Dec
Past 12 Months	47	34
Past 3 Months	13	17

## LEGACY 600/650

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

	L600	L650
Transaction Level (Past 12 Months)	↑	↑
Inventory Level	↓	↑
Average Asking Price	↑	↓
Average Days on Market	↓	↓

## PERFORMANCE

	L600	L650
Max Range	3,400 N.M. / 6,297 km	3,640 N.M. / 7,112 km
Max Speed	Mach 0.80	Mach 0.80
Typ. Passengers	13	13

## SUPPLY

	Mar   Dec	Mar   Dec
No. for Sale	11   12	7   4
Avg Asking Price	7.2M USD	12.3M USD
Avg Days on Market	383   397	162   182

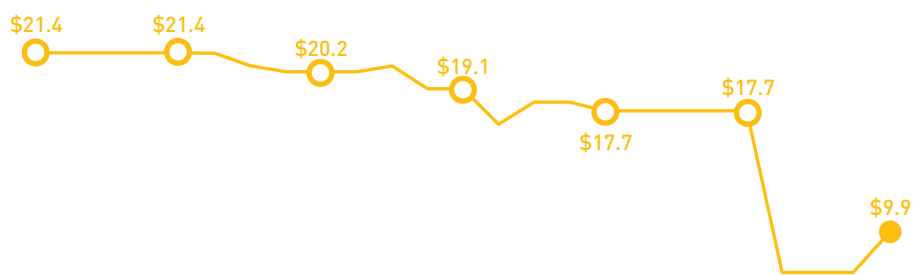
## TRANSACTION

	Mar   Dec	Mar   Dec
Past 12 Months	16   12	7   4
Past 3 Months	4   6	3   2

Source: AMSTAT &amp; ASG

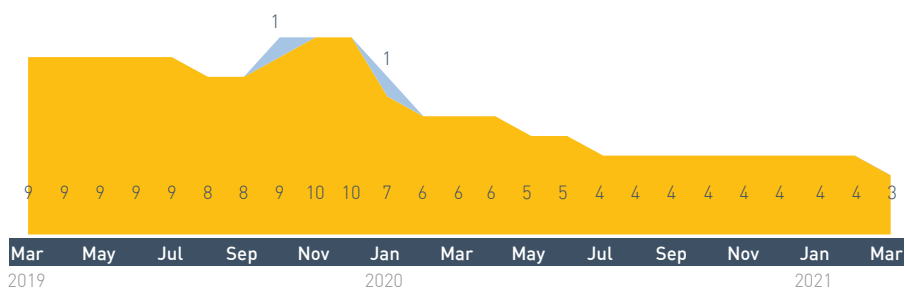
## LINEAGE 1000/E

Average Asking Price



For Sale vs. Sold

■ Sold ■ For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	=
Inventory Level	↓
Average Asking Price	↑
Average Days on Market	↑

### PERFORMANCE

Max Range	4,400 N.M. / 8,149 km
Max Speed	Mach 0.82
Typ. Passengers	19

### SUPPLY

	2021 Mar	2020 Dec
No. for Sale	3 (10.0%)	4 (14.3%)
Avg Asking Price	9.9M USD	7.5M USD
Avg Days on Market	961	767

### TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	0	0
Past 3 Months	0	0

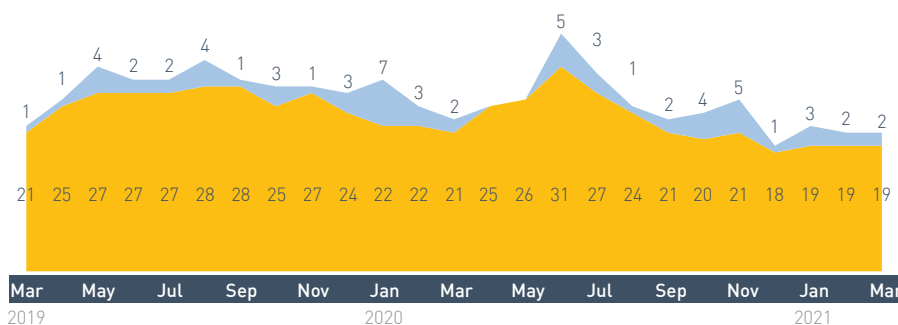
## G200

Average Asking Price



For Sale vs. Sold

■ Sold ■ For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	↑
Average Asking Price	↓
Average Days on Market	↓

### PERFORMANCE

Max Range	3,050 N.M. / 5,651 km
Max Speed	Mach 0.81
Typ. Passengers	8

### SUPPLY

	2021 Mar	2020 Dec
No. for Sale	19 (7.9%)	18 (7.5%)
Avg Asking Price	3.4M USD	3.6M USD
Avg Days on Market	221	276

### TRANSACTION

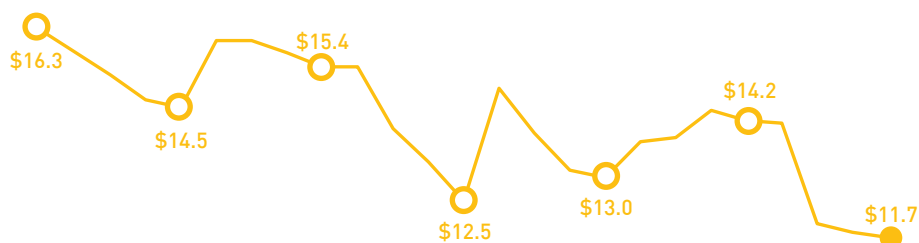
	2021 Mar	2020 Dec
Past 12 Months	28	21
Past 3 Months	7	10

Source: AMSTAT &amp; ASG



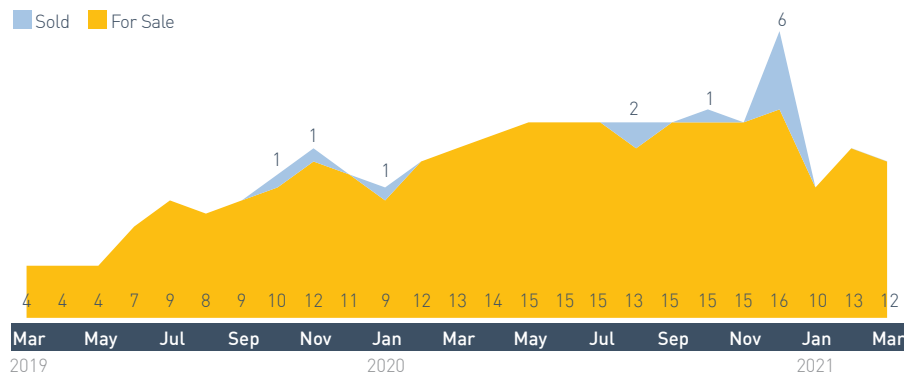
## G280

Average Asking Price



For Sale vs. Sold

Sold For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ==

Inventory Level ↓

Average Asking Price ↓

Average Days on Market ↑

## PERFORMANCE

Max Range 3,600 N.M. / 6,667 km  
 Max Speed Mach 0.84  
 Typ. Passengers 8

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	12 (5.8%)	16 (8.0%)
Avg Asking Price	11.7M USD	14.2M USD
Avg Days on Market	259	257

## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	9	9
Past 3 Months	0	7

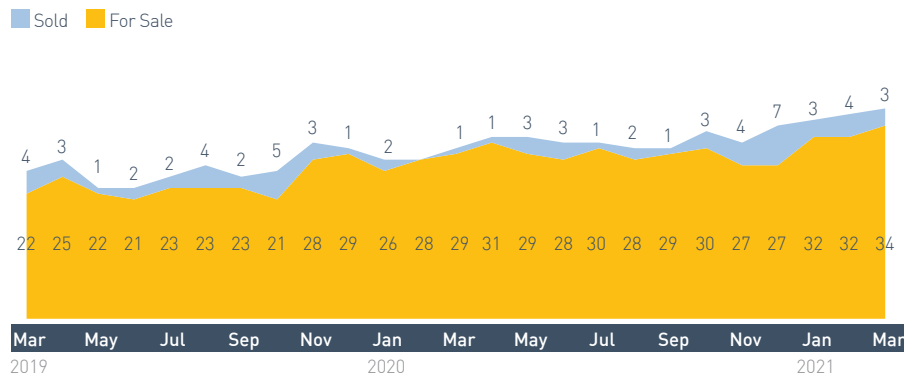
## G450

Average Asking Price



For Sale vs. Sold

Sold For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑

Inventory Level ↑

Average Asking Price ↑

Average Days on Market ↓

## PERFORMANCE

Max Range 4,350 N.M. / 8,056 km  
 Max Speed Mach 0.85  
 Typ. Passengers 13

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	34 (9.6%)	27 (7.6%)
Avg Asking Price	12.5M USD	12.2M USD
Avg Days on Market	310	324

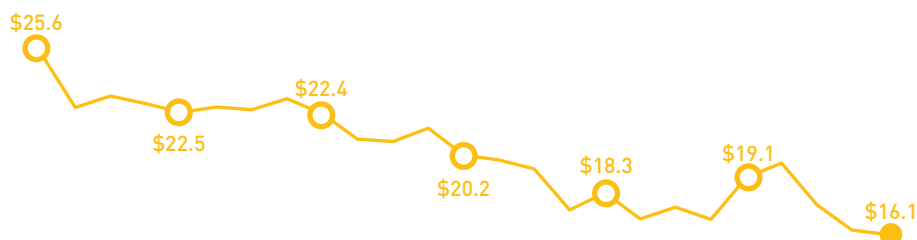
## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	35	25
Past 3 Months	10	14

Source: AMSTAT &amp; ASG

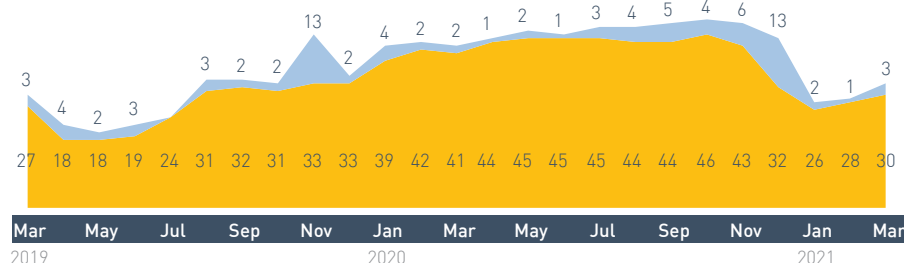
## G550

Average Asking Price



For Sale vs. Sold

Sold For Sale



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑  
Inventory Level ↓  
Average Asking Price ↓  
Average Days on Market ↓

### PERFORMANCE

Max Range 6,750 N.M. / 12,501 km  
Max Speed Mach 0.87  
Typ. Passengers 18

### SUPPLY

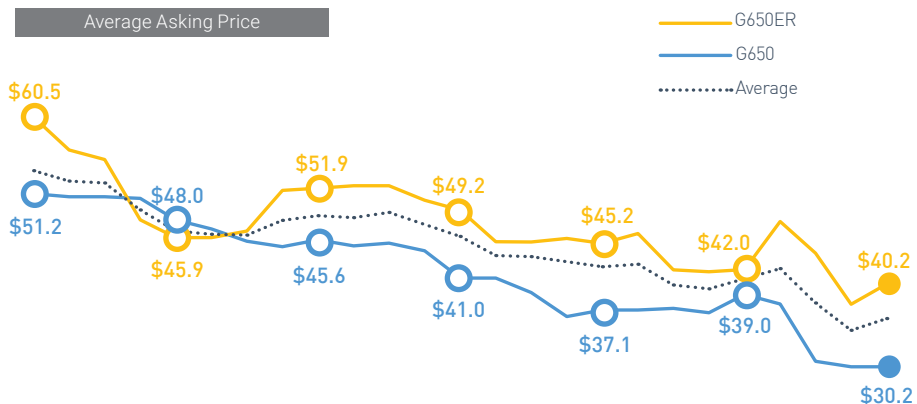
	2021 Mar	2020 Dec
No. for Sale	30 (5.0%)	32 (5.4%)
Avg Asking Price	16.1M USD	19.8M USD
Avg Days on Market	201	276

### TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	45	39
Past 3 Months	6	23

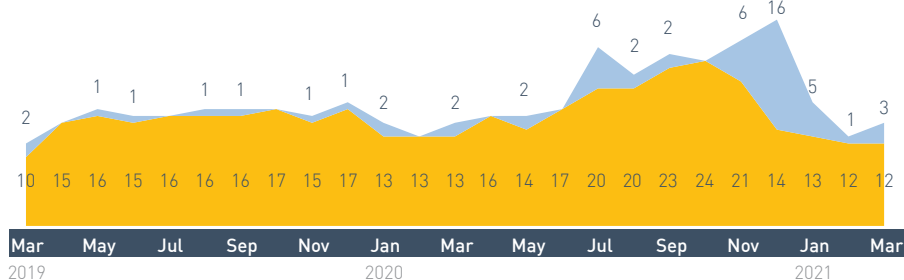
## G650 & G650 ER

Average Asking Price



For Sale vs. Sold

Sold For Sale



Market Indicators (vs. Last Quarter)

	G650	G650ER
Transaction Level (Past 12 Months)	↑	↑
Inventory Level	↓	↑
Average Asking Price	↓	↓
Average Days on Market	↑	↓

### PERFORMANCE

	G650	G650ER
Max Range	7,000 N.M.	7,500 N.M.
Max Speed	Mach 0.90	Mach 0.90
Typ. Passengers	18	18

### SUPPLY

	Mar   Dec	Mar   Dec
No. for Sale	5   8	7   6
Avg Asking Price	30.2M USD	40.2M USD
	37.8M USD	47.8M USD
Avg Days on Market	241   225	118   183

### TRANSACTION

	Mar   Dec	Mar   Dec
Past 12 Months	21   17	22   17
Past 3 Months	4   11	5   11

Source: AMSTAT & ASG



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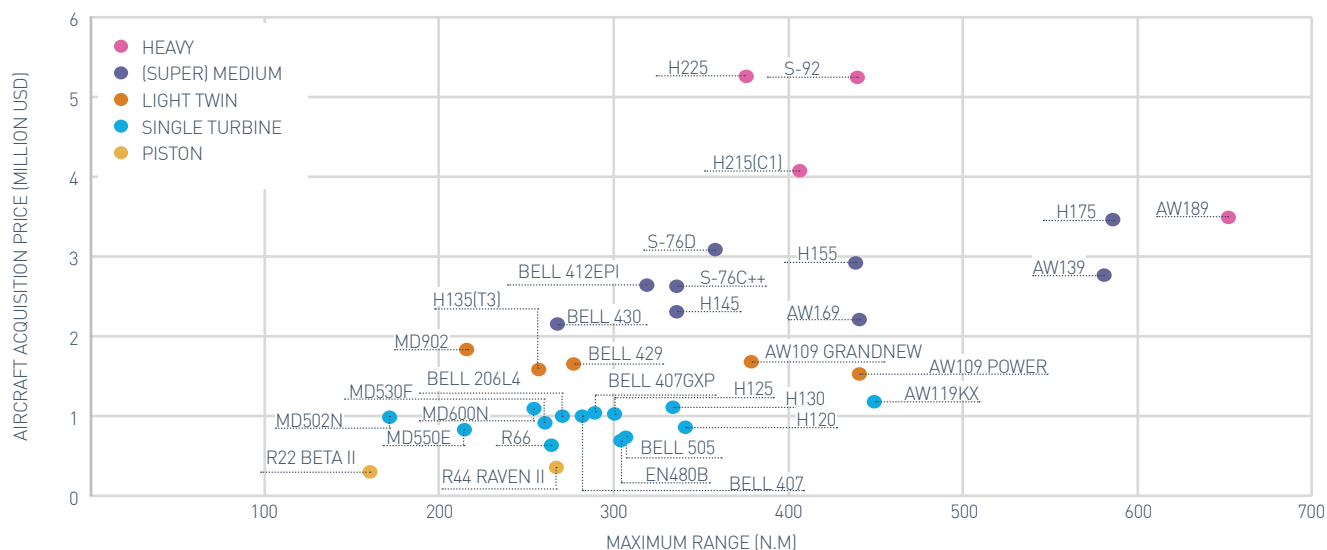
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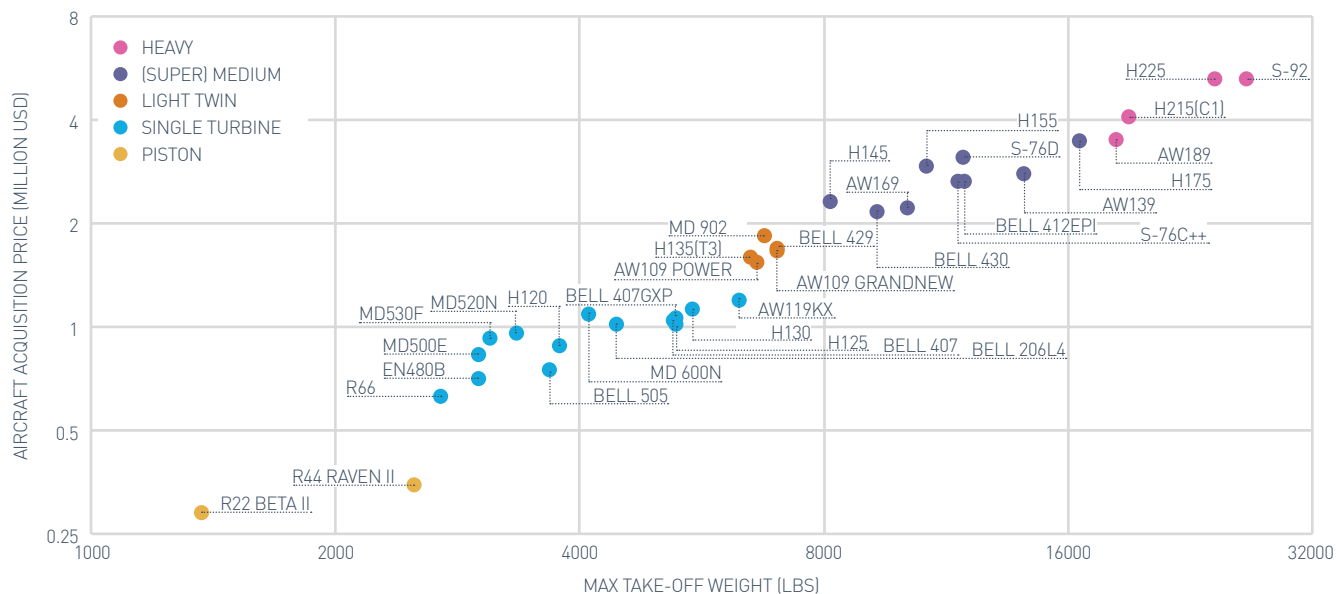


# AIRCRAFT POSITIONING - CIVIL HELICOPTERS

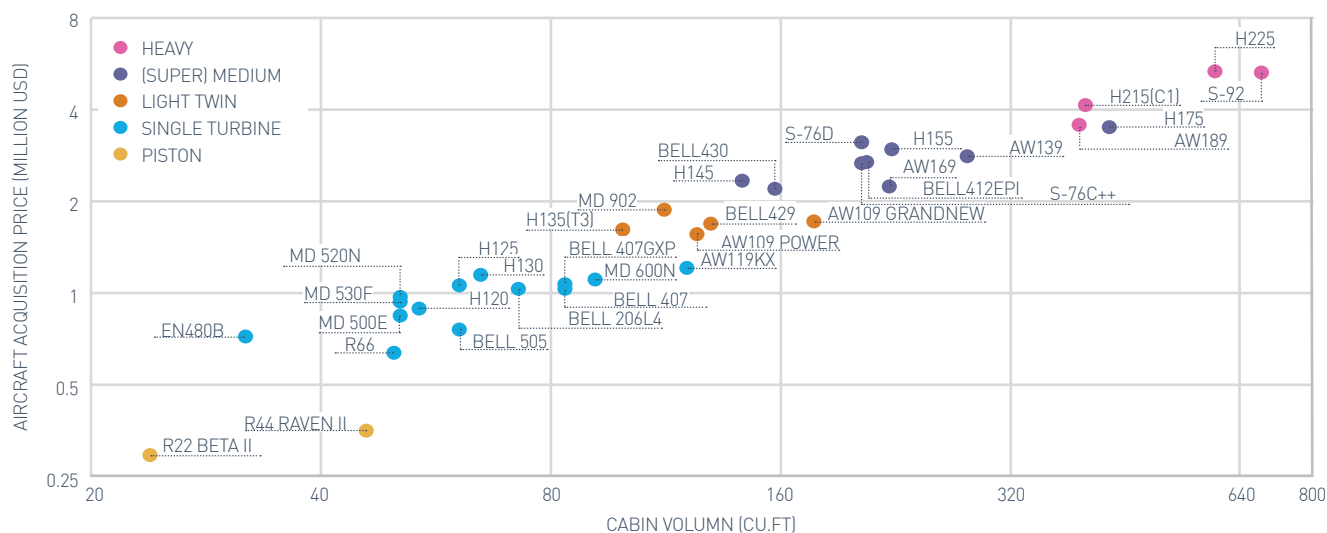
## ACQUISITION COST VS. MAX RANGE



## ACQUISITION COST VS. MAX TAKEOFF WEIGHT



## ACQUISITION COST VS. CABIN VOLUME



Source: Conklin &amp; de Decker



# MARKET SUMMARY PER MODEL – CIVIL HELICOPTERS

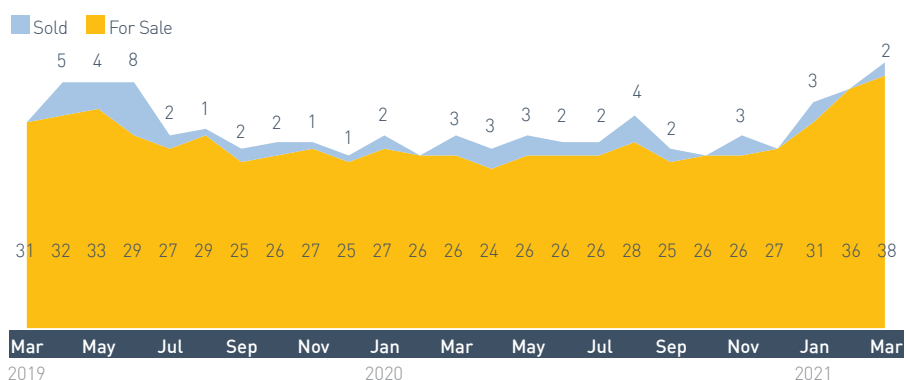
## INVENTORY LEVEL, PRICE TREND & TRANSACTIONS

### H125

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑  
 Inventory Level ↑↑  
 Average Asking Price ↓↓  
 Average Days on Market ↓↓

#### PERFORMANCE

Max Range 340 N.M. / 630 km  
 Max Speed 140 Knots  
 Typ. Passengers 6

#### SUPPLY

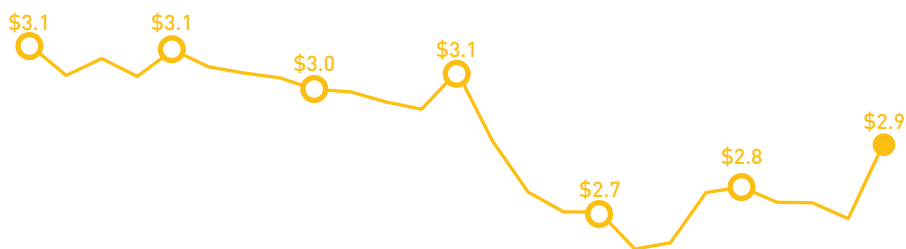
	2021 Mar	2020 Dec
No. for Sale	38 (4.3%)	27 (3.1%)
Avg Asking Price	2.4M USD	2.5M USD
Avg Days on Market	470	562

#### TRANSACTION

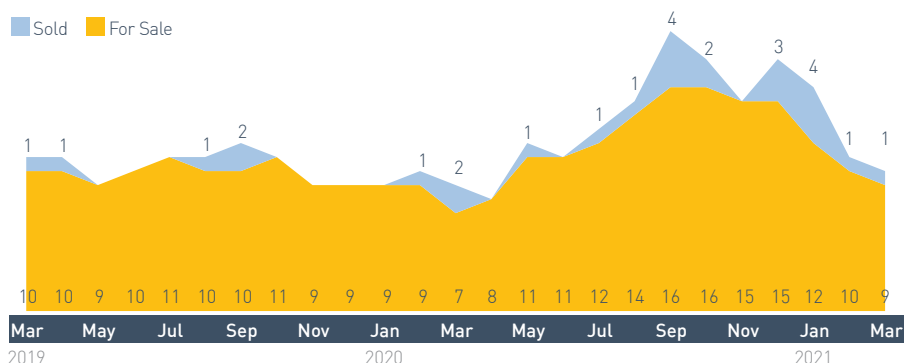
	2021 Mar	2020 Dec
Past 12 Months	24	19
Past 3 Months	5	3

### H130

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑↑  
 Inventory Level ↓↓  
 Average Asking Price ↑↑  
 Average Days on Market ↑↑

#### PERFORMANCE

Max Range 333 N.M. / 606km  
 Max Speed 128 Knots  
 Typ. Passengers 7

#### SUPPLY

	2021 Mar	2020 Dec
No. for Sale	9 (3.0%)	15 (5.1%)
Avg Asking Price	2.9M USD	2.7M USD
Avg Days on Market	311	229

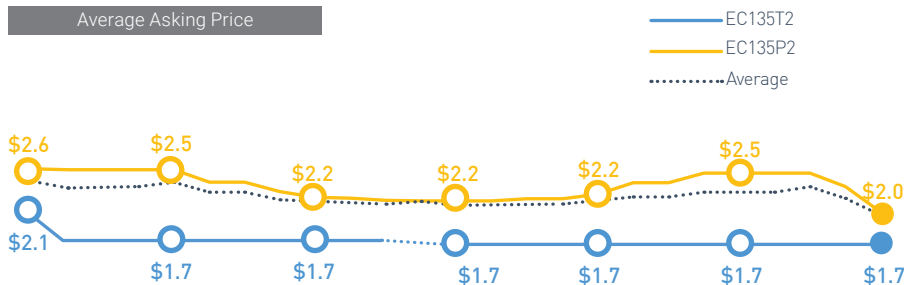
#### TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	18	12
Past 3 Months	6	5

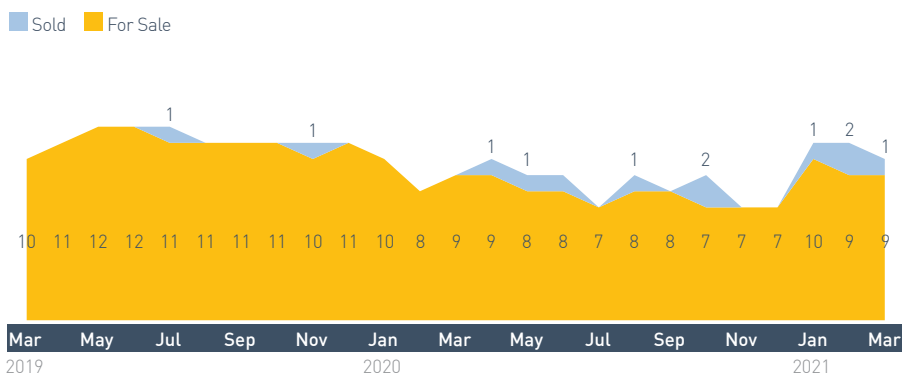
Source: AMSTAT & ASG

## EC135P2 & T2

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

	EC135P2	EC135T2
Transaction Level (Past 12 Months)	↑	↑
Inventory Level	↑	↓
Average Asking Price	↓	=
Average Days on Market	↓	↑

### PERFORMANCE

	EC135P2	EC135T2
Max Range	332 N.M.	332 N.M.
Max Speed	127 Knots	127 Knots
Typ. Passengers	6	6

### SUPPLY

	Mar   Dec	Mar   Dec
No. for Sale	8   5	1   2
Avg Asking Price	2.0M USD 2.5M USD	1.7M USD 1.7M USD
Avg Days on Market	390   522	236   223

### TRANSACTION

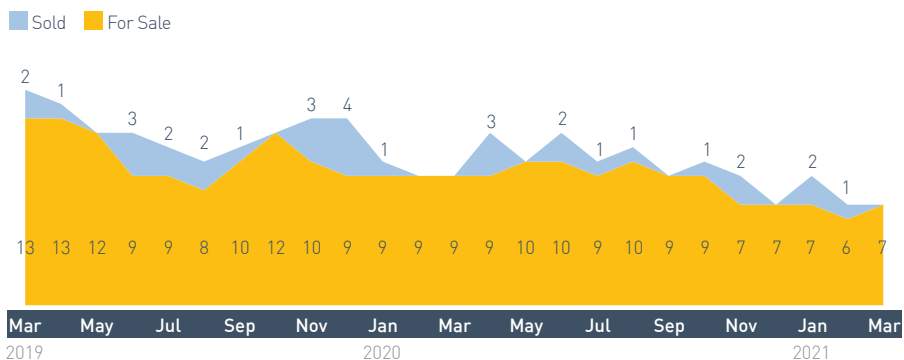
	Mar   Dec	Mar   Dec
Past 12 Months	4   2	6   4
Past 3 Months	2   0	2   2

## EC145

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	=
Average Asking Price	↓
Average Days on Market	↑

### PERFORMANCE

Max Range	461 N.M. / 855 km
Max Speed	131 Knots
Typ. Passengers	9

### SUPPLY

	2021 Mar	2020 Dec
No. for Sale	7 (1.0%)	7 (1.0%)
Avg Asking Price	2.9M USD	3.7M USD
Avg Days on Market	605	545

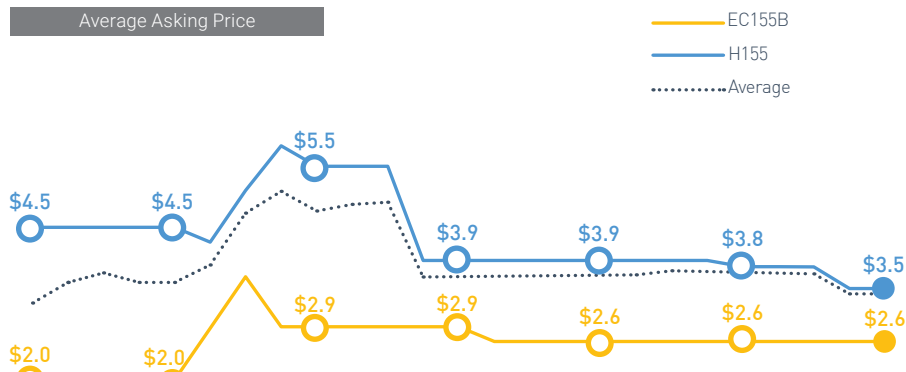
### TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	13	10
Past 3 Months	3	3

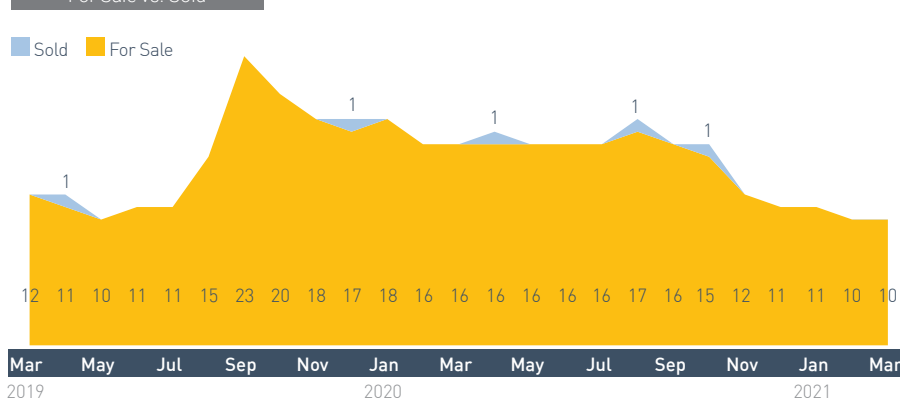
Source: AMSTAT &amp; ASG

## H155 &amp; EC155B

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

	H155	EC155B
Transaction Level (Past 12 Months)	=	=
Inventory Level	↓	=
Average Asking Price	↓	=
Average Days on Market	↑	↑

## PERFORMANCE

	H155	EC155B
Max Range	516 N.M.	516 N.M.
Max Speed	955 km	955 km
Typ. Passengers	150 Knots	135 Knots
	13	13

## SUPPLY

	Mar   Dec	Mar   Dec
No. for Sale	9   10	1   1
Avg Asking Price	3.5M USD	2.6M USD
	3.8M USD	2.6M USD
Avg Days on Market	963   839	784   694

## TRANSACTION

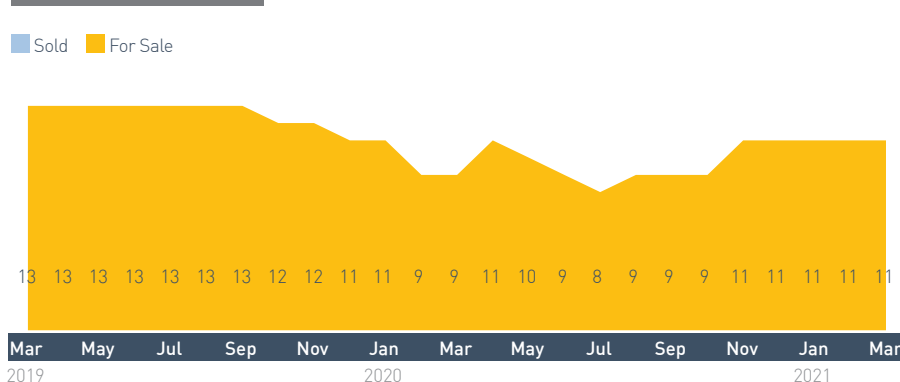
	Mar   Dec	Mar   Dec
Past 12 Months	0   0	3   3
Past 3 Months	0   0	0   1

## H225

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	=
Inventory Level	=
Average Asking Price	=
Average Days on Market	↑

## PERFORMANCE

Max Range	452 N.M. / 837 km
Max Speed	142 Knots
Typ. Passengers	19

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	11 (6.2%)	11 (6.2%)
Avg Asking Price	5.5M USD	5.5M USD
Avg Days on Market	870	780

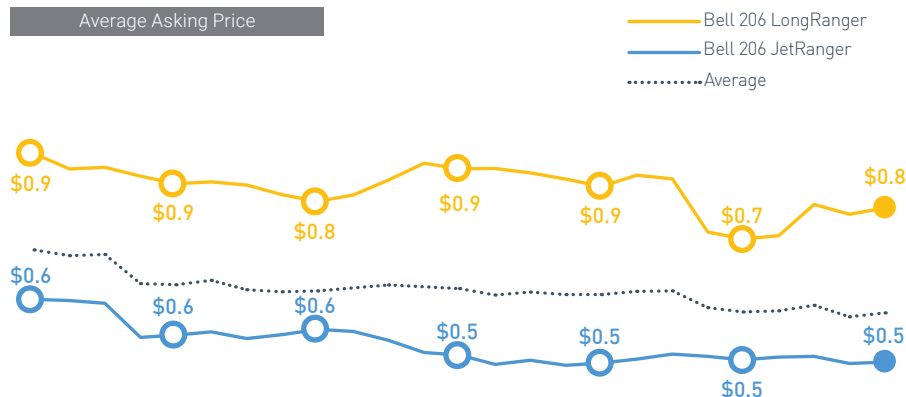
## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	0	0
Past 3 Months	0	0

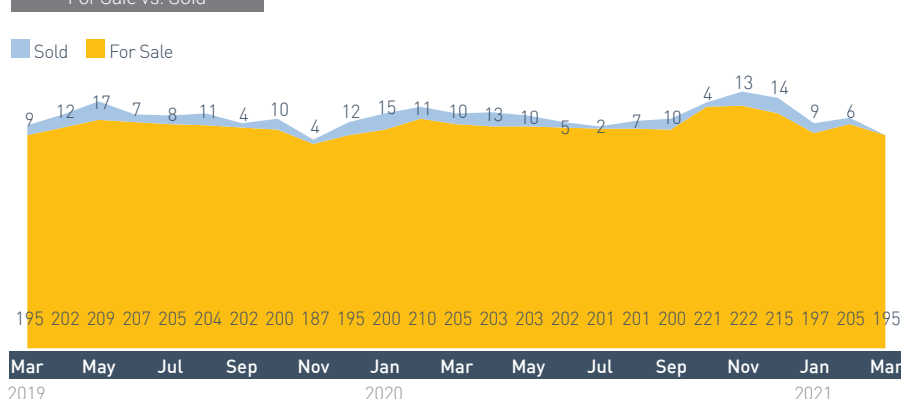
Source: AMSTAT &amp; ASG

## BELL 206 JETRANGER / LONGRANGER

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

	Bell 206J	Bell 206L
Transaction Level (Past 12 Months)	↑	=
Inventory Level	=	↓
Average Asking Price	↓	↑
Average Days on Market	↓	↑

### PERFORMANCE

Max Range	Bell 206J 374 N.M. 693 km	Bell 206L 270 N.M. 500 km
Max Speed	121 Knots	105 Knots
Typ. Passengers	4	6

### SUPPLY

No. for Sale	Mar   Dec 133   133	Mar   Dec 62   82
Avg Asking Price	0.5M USD 0.5M USD	0.8M USD 0.8M USD
Avg Days on Market	811   822	513   423

### TRANSACTION

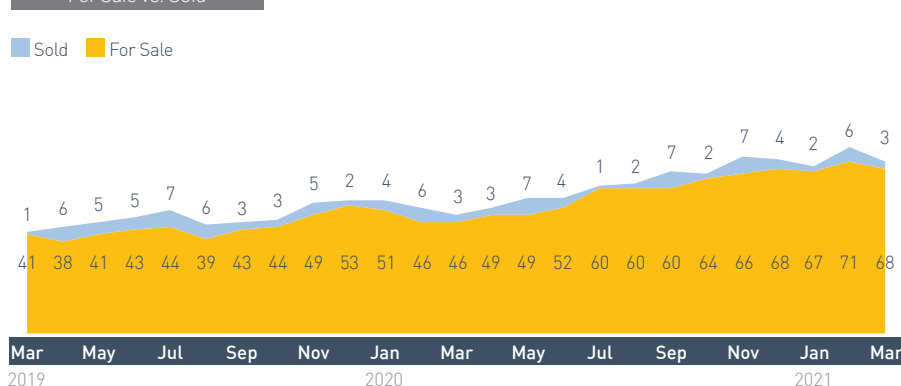
Past 12 Months	Mar   Dec 86   71	Mar   Dec 7   7
Past 3 Months	15   27	0   4

## BELL 407

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	=
Average Asking Price	↓
Average Days on Market	↑

### PERFORMANCE

Max Range	323 N.M. / 598 km
Max Speed	132 Knots
Typ. Passengers	7

### SUPPLY

No. for Sale	2021 Mar 68 (4.2%)	2020 Dec 68 (4.3%)
Avg Asking Price	2.2M USD	2.3M USD
Avg Days on Market	400	389

### TRANSACTION

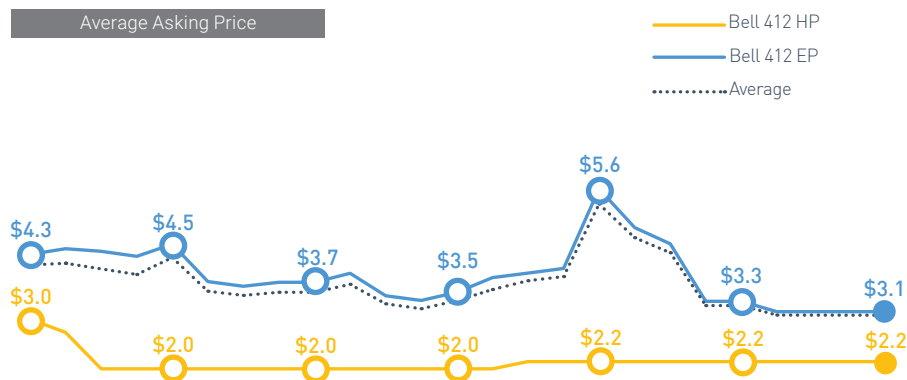
Past 12 Months	2021 Mar 48	2020 Dec 37
Past 3 Months	11	13

Source: AMSTAT &amp; ASG

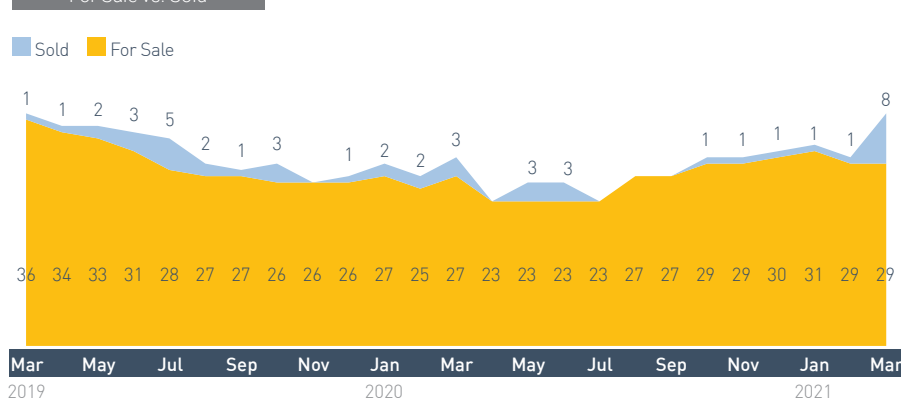


## BELL 412EP/412HP

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Bell 412EP Bell 412HP

Transaction Level (Past 12 Months)	↑	=
Inventory Level	↓	=
Average Asking Price	=	=
Average Days on Market	↑	↓

## PERFORMANCE

Max Range	Bell 412EP 356 N.M. / 659 km	Bell 412HP 349 N.M. / 646 km
Max Speed	140 Knots	133 Knots
Typ. Passengers	9	14

## SUPPLY

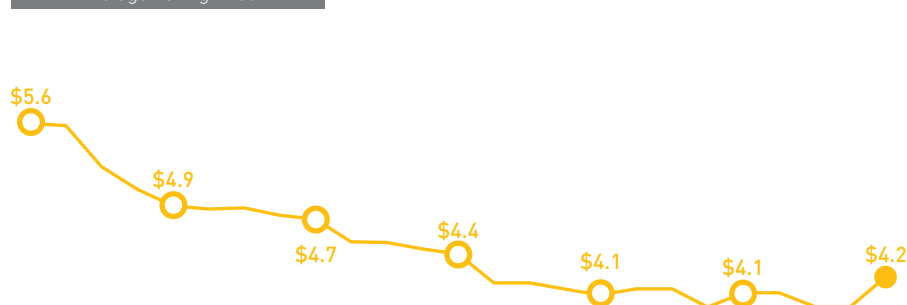
No. for Sale	Mar   Dec 27   28	Mar   Dec 46   46
Avg Asking Price	3.1M USD	2.2M USD
Avg Days on Market	421   326	470   856

## TRANSACTION

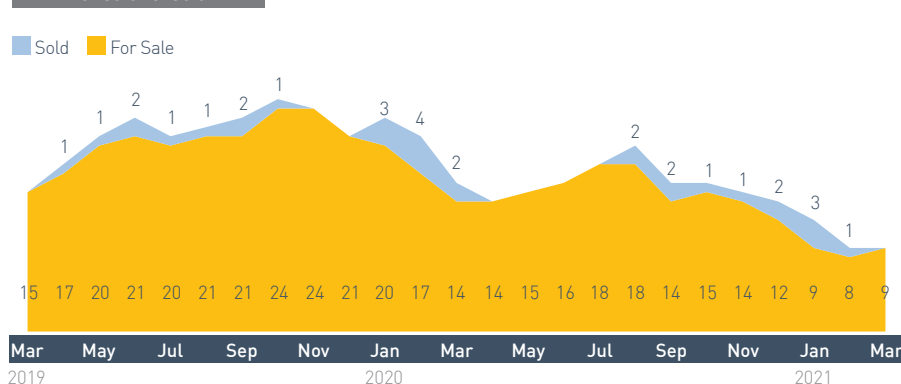
Past 12 Months	Mar   Dec 18   8	Mar   Dec 1   1
Past 3 Months	10   3	0   0

## BELL 429

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months)	↑
Inventory Level	↓
Average Asking Price	↑
Average Days on Market	↑

## PERFORMANCE

Max Range	368 N.M. / 681 km
Max Speed	130 Knots
Typ. Passengers	7

## SUPPLY

No. for Sale	2021 Mar 9 (2.3%)	2020 Dec 12 (3.2%)
Avg Asking Price	4.2M USD	4.1M USD
Avg Days on Market	406	391

## TRANSACTION

Past 12 Months	2021 Mar 12	2020 Dec 8
Past 3 Months	4	4

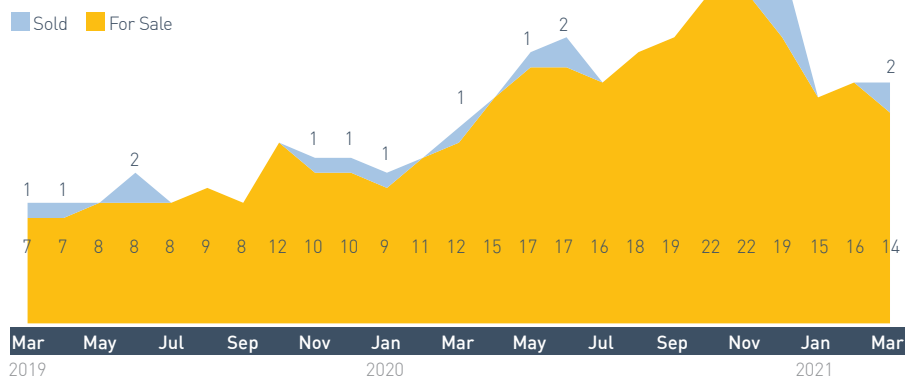
Source: AMSTAT &amp; ASG

## AW109SP GRANDNEW

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑  
 Inventory Level ↓  
 Average Asking Price ↑  
 Average Days on Market ↑

## PERFORMANCE

Max Range 480 N.M. / 889 km  
 Max Speed 130 Knots  
 Typ. Passengers 7

## SUPPLY

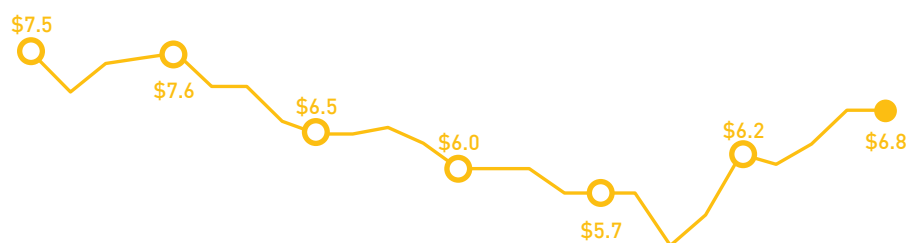
	2021 Mar	2020 Dec
No. for Sale	14 (7.1%)	19 (9.8%)
Avg Asking Price	4.6M USD	4.3M USD
Avg Days on Market	307	256

## TRANSACTION

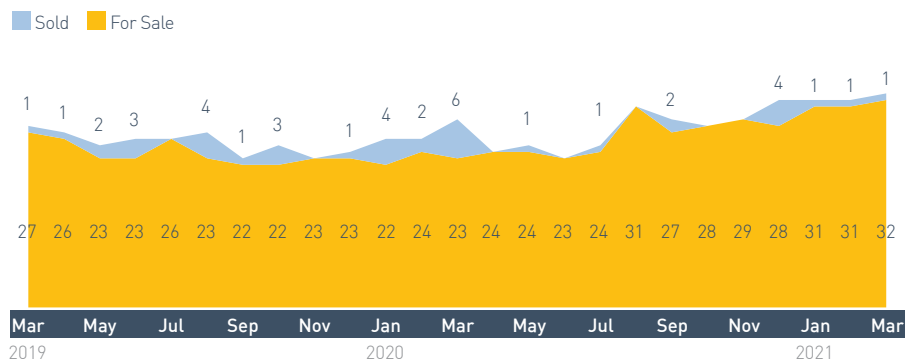
	2021 Mar	2020 Dec
Past 12 Months	11	9
Past 3 Months	2	6

## AW139

Average Asking Price



For Sale vs. Sold



Market Indicators (vs. Last Quarter)

Transaction Level (Past 12 Months) ↑  
 Inventory Level ↑  
 Average Asking Price ↑  
 Average Days on Market =

## PERFORMANCE

Max Range 568 N.M. / 1,052 km  
 Max Speed 140 Knots  
 Typ. Passengers 15

## SUPPLY

	2021 Mar	2020 Dec
No. for Sale	32 (3.2%)	28 (2.9%)
Avg Asking Price	6.8M USD	6.1M USD
Avg Days on Market	466	466

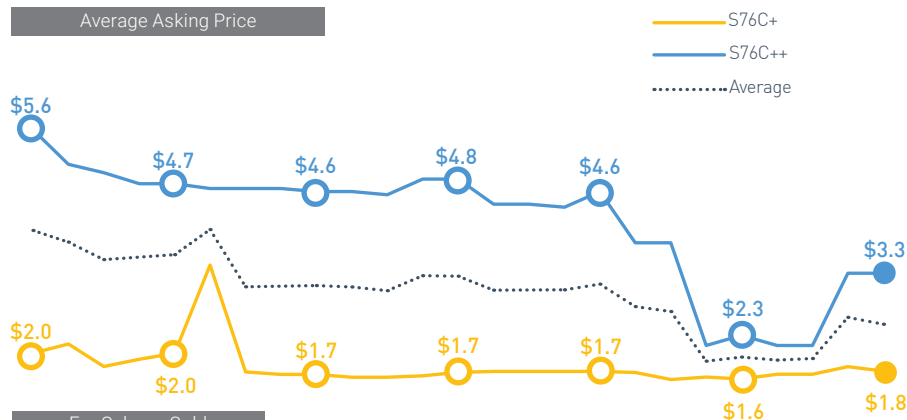
## TRANSACTION

	2021 Mar	2020 Dec
Past 12 Months	11	8
Past 3 Months	3	4

Source: AMSTAT &amp; ASG

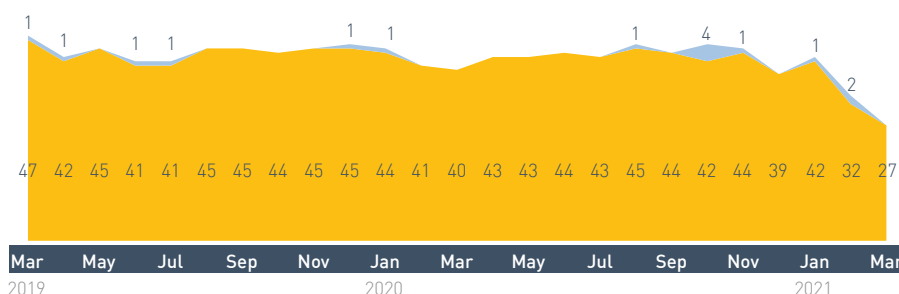
## S-76C+ / S-76C++

Average Asking Price



For Sale vs. Sold

■ Sold ■ For Sale



Market Indicators (vs. Last Quarter)

	S76C+	S76C++
Transaction Level (Past 12 Months)	=	↑
Inventory Level	↓	↓
Average Asking Price	↑	↑
Average Days on Market	↑	↓

## PERFORMANCE

	S-76C+	S-76C++
Max Range	335 N.M. / 620 km	335 N.M. / 620 km
Max Speed	155 Knots	155 Knots
Typ. Passengers	12	12

## SUPPLY

	Mar   Dec	Mar   Dec
No. for Sale	14   20	13   19
Avg Asking Price	1.8M USD 1.7M USD	3.3M USD 2.2M USD
Avg Days on Market	815   719	493   580

## TRANSACTION

	Mar   Dec	Mar   Dec
Past 12 Months	0   0	9   6
Past 3 Months	0   0	3   5

Source: AMSTAT &amp; ASG

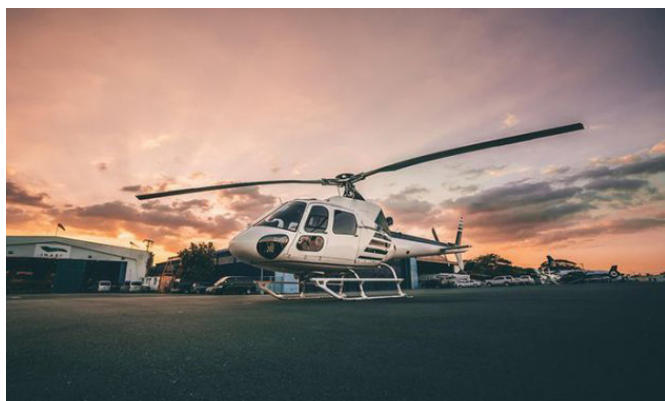
## FEATURED AIRCRAFT



### AGUSTAWESTLAND - AW139 SN60001

#### TOTAL HOURS: 384 HOURS SINCE NEW

- 2+6 Leather Seats VIP Configuration w/ Conversion Kit for 8 Passengers
- Increased Gross Weight - 6,800 KG
- Air Conditioning System
- Super Silent Soundproofing
- Emergency Floats (Fixed Parts)
- Wire Strike Protection System
- Passenger Cabin Hinged Doors
- Anti-icing System



### AIRBUS - AS350B2 SN3275

#### TOTAL HOURS: 4,210 SINCE NEW

- 1 + 5 Seating Configuration
- Always Hangared
- SkyTrac Satellite Tracking
- Aerazur Emergency Floatation System
- Dual Cyclic Controls
- Dual Collective Control with Twist Grip



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