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### It's Time to Come Together

palpable. For months now, It's the momentum has been building to get out and meet family, friends, customers and prospects, partners and suppliers, and other long-time-no-see warm-blooded humans. In our hyper-connected world, audio and video communications technologies have been amongst our most prized possessions during the COVID-19 era for the way they help us stay informed and connected. Despite their latest/greatest gadgetry and ultimate portability, personal electronic devices surely portend the future but also remind us of the way we were.

Just as the rates of viral infection and mortality are unevenly distributed, so too are expectations for recovery and acceleration out of the depths of the global COVID-19 crisis. New coronavirus variants notwithstanding, there is a growing sense that, with vaccine protections and on-going adherence to smart travel protocols, we can collectively begin to return to whatever our "new normal" will look like. This is an exceptionally welcome development for those in the travel, entertainment, and civil aviation industries.

### "...there is a growing sense that... we can collectively begin to return to whatever our "new normal" will look like. ..."

In 1980, Kool & the Gang had their only #1 charting song on the U.S. Billboard "Hot 100" with *Celebration*. Released in 1980 and played at countless gatherings ever since – weddings,

sporting events, b'nai mitzvahs, graduation parties – the song and the reconstituted band somehow manage to continuously exude high-spirited energy more typical of that found at the back end of a turbine engine.

The acceleration of vaccination rates in many key business and general aviation (B&GA) markets is finally underway, helping to build confidence, mitigate fears, and restore a sense of lift to human spirits. Countries like the United States with large internal markets and an aviation-minded culture are probably best positioned to climb out of the COVIDinduced doldrums most quickly over the next several months.

We recently celebrated our 10<sup>th</sup> anniversary of JETNET iQ. With this, our 26<sup>th</sup> bi-weekly issue, we celebrate our 1st anniversary of JETNET iQ PULSE. Launched to help fill a void that many of us were feeling to "stay connected" despite our inability to meet face-to-face, JETNET iQ PULSE has already become an important source of data-inspired need-to-know insights into key developments in the business aviation industry. While my face may appear on the front page, JETNET iQ PULSE exists because it is fueled by ideas and analytics of a team of passionate and engaged professionals, led by Jennifer Nice. While shying from the spotlight has become for her somewhat of a science, she is a brilliant analyst with a rare gift for superior ideation and creativity. With unmatched customer focus and productivity, she provides the glue that keeps our JETNET iQ research team together, aligned, and focused on our customers, our commitments, and our strategies for future growth.



This issue of JETNET iQ PULSE is sponsored by:





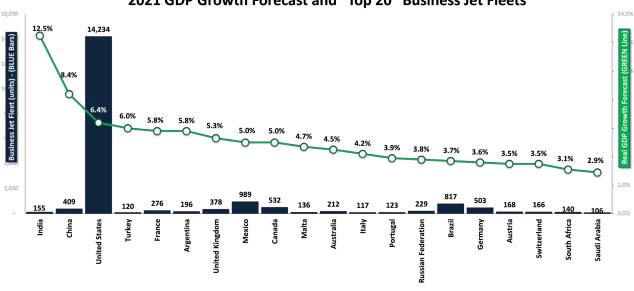
# Outlook

After the economic shockwaves of 2020 (remember?), the world's economies have been on a recovery path, some considerably faster than others. Amongst the top 20 national economies where business jets are based worldwide, most all are projected to grow at a 3.0% rate or faster in 2021. Led by India and China, the world's most populous nations and amongst the world's fastest growing economies, the GDP growth outlook for 2021 is in sharp contrast to widescale recessions that plagued most nations last year. For example, the U.S. economy shrank by 3.5% in 2020 according to the U.S. Bureau of Economic Analysis, it's biggest peacetime contraction since the Great Depression in the early 1930s.

Global economic growth is accelerating, and as usual never in all places nor at the same rates. On April 6, the International Monetary Fund (IMF) upgraded its GDP growth forecasts for the 2<sup>nd</sup> time in 3 months, with growth now expected to come in at an impressive 6% worldwide after shrinking 3.3% in 2020. The IMF's 2021 growth forecast of 6% would represent the fastest rate of economic expansion in more than 40 years. The IMF just upgraded U.S. GDP growth in 2021 to a whitehot 6.4%, up from 5.1% in their January 2021 outlook. U.S. economic expansion is on track to expunge the overall impact of the COVID-19 induced recession last year. The last time the U.S. economy expanded at this pace was in the 1970s.

GDP growth is generally acknowledged to be one of the underlying drivers of business aircraft sales and flight activity. Over the past 10-years, world GDP and business jet fleet growth were in virtual lockstep, growing at ~2.2% CAGR. Current IMF projections of GDP growth for 2022-2023 hover in the range of 4.2-4.4%, a rate of growth that should bode well for continued fleet expansion. Complicating the calculus, however, is the fact that almost a quarter of in-service business jets – about 5,400 in total – are already 25+ years old and will be approaching retirement. Owners of late 1970s-era Citation, Learjet, Hawker and Falcon jets may have to finally come to terms and bid *adieu* to their veteran – and now increasingly classic – business jet designs.





2021 GDP Growth Forecast and "Top 20" Business Jet Fleets

Sources: U.S. 2020 GDP growth rate: U.S. Bureau of Economic Analysis; 2021 GDP growth forecasts by country; International Monetary Fund; 2021 business jet fleets: JETNET

### Introducing the CITATION CJ4 Gen2.

Success is in the details of the newly reimagined CESSNA CITATION CJ4 Gen2 jet. Expertly designed, exquisitely crafted, it's the ultimate single-pilot jet for a new generation of business leaders and leisure travelers.



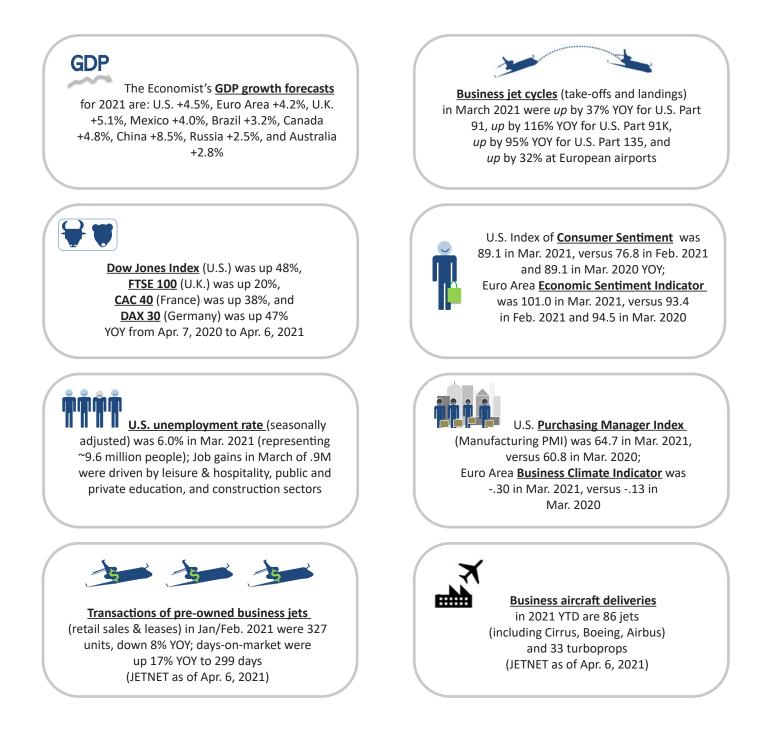
cessna.com/cj4gen2



# BLUE SKY THINKING MEETS UNCOMPROMISING FOCUS.



# **Business Conditions**





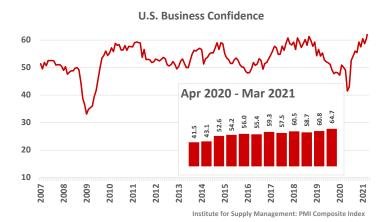
## **Business Confidence**

### U.S. and Euro Area 2007 Through March 2021

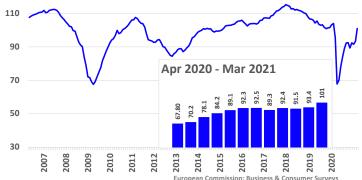
Business confidence in both the U.S. and the Euro Area has been on rebound since the worst of the coronavirus impacts in April / May 2020. In fact, U.S. business confidence as measured by the ISM's Purchasing Manager Index monthly survey is now higher than at any time in the past 40 years. While the recovery of confidence in Europe has yet to return to pre-COVID levels, the <u>trajectory of improvement</u> recorded in March 2021 is encouraging. With economic growth and increasing business confidence, demand for business aviation aircraft and related services is positioned to bounce back, as is already evident in the U.S. and sooner than later in Europe. Forecasts, of course, are dependent upon continuing improvements in public health metrics and the removal of restrictions on air travel.







**Europe Business Confidence** 



Sources: U.S. Business Confidence: Institute for Supply Management - PMI Composite Index Euro Area: European Commission – Business & Consumer Surveys

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# **Expected Aircraft Utilization**

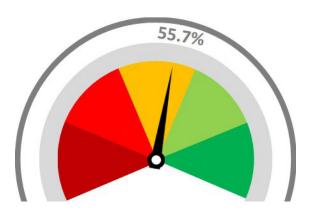
### JETNET iQ Survey Respondents 1<sup>st</sup> Half of 2021

Our quarterly surveys of business aircraft owners / operators provide a wide variety of insights on the state of the market, including customer perspectives on the trajectory of recovery from COVID-19 induced slowdowns in flying activity. Amongst U.S.-based survey respondents, an encouraging 56% indicate that their organization's business aircraft utilization (flight hours) will recover to pre-COVID levels by the middle of 2021. This is the fastest expected recovery in business aircraft flight activity of any of the major world regions that we systematically track. Outside the U.S., about 48% of survey respondents agree that their organization's flight hours will rebound to pre-COVID levels by the end of the 1<sup>st</sup> half of 2021.



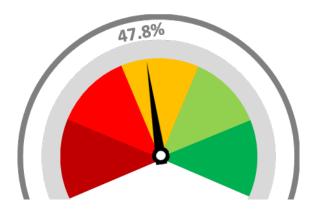
### Our organization's flying hours will rebound to pre-COVID-19 levels by the end of the $1^{\underline{st}}$ Half of 2021

### **United States**



55.7% of U.S.-based respondents agree or strongly agree with the statement

### **World Excluding United States**



47.8% of non-U.S.-based respondents agree or strongly agree with the statement

Source: Q1 2021 JETNET iQ Survey (in progress)



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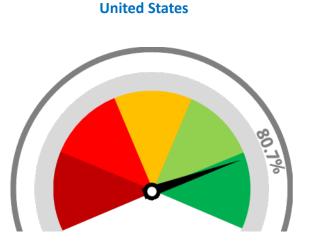
# **Expected Aircraft Utilization**

# JETNET iQ Survey Respondents 2<sup>nd</sup> Half of 2021

A large majority of JETNET iQ Survey respondents believe that their organization's flight hours will recover to pre-COVID levels by the end of 2021. This includes 81% of U.S. respondents and 72% of non-U.S. respondents to the in-progress Q1 2021 JETNET iQ Survey. While these are encouraging results, the reality is that not all organizations are yet seeing the light at the end of the tunnel. This is consistent with our expectation that a full recovery to pre-COVID flight hour levels will occur sometime towards the latter half of 2022, once temporary quarantines and other cross-border air travel restrictions are eased or (hopefully) removed entirely.



### Our organization's flying hours will rebound to pre-COVID-19 levels by the end of the <u>2<sup>nd</sup> Half</u> of 2021



80.7% of U.S.-based respondents agree or strongly agree with the statement

**World Excluding United States** 



72.3% of non-U.S.-based respondents agree or strongly agree with the statement

Source: Q1 2021 JETNET iQ Survey (in progress)



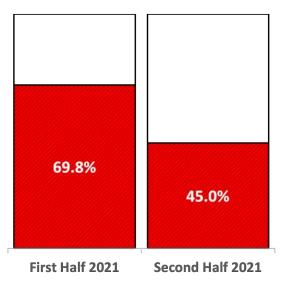
## **In-Person Events and COVID-19**

### U.S.-Based JETNET iQ Survey Respondents 1<sup>st</sup> Half Versus 2<sup>nd</sup> Half 2021

One of the sad realities of our COVID-19 world is the virtual elimination of in-person events like conventions, trade shows, industry summits and conferences. This has had deep commercial repercussions on the way business is conducted across the B&GA industry. While virtual product introductions (or announcement deferrals) have become the norm across the industry, there are few who would say that these fully replace the "tire-kicking" and close-up evaluation of the wide array of products and services on offer. The fact that only a few inperson events are still planned for H1 2021 reflects continuing concern regarding the coronavirus. About 70% of U.S.-based respondents to our Q1 2021 JETNET iQ Survey are hesitant to attend an in-person event in the 1<sup>st</sup> half of 2021. At this point in time, while the outlook improves considerably for events scheduled in H2 2020, 45% of respondents suggest that even these may be scheduled too early for them to feel confident to "get back in the saddle."



### Hesitant to Attend In-Person U.S. Respondents





Source: Q1 2021 JETNET iQ Survey (in progress)

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## **In-Person Events and COVID-19**

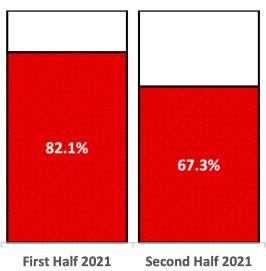
Non-U.S.-Based JETNET iQ Survey Respondents 1<sup>st</sup> Half Versus 2<sup>nd</sup> Half 2021

Outside the U.S., customer hesitancy to attend in-person events is considerably higher and is expected to stay that way for events planned for the 2<sup>nd</sup> half of 2021. This may reflect lower economic growth and business confidence expectations, fears that new variants of the coronavirus will prove to be destabilizing, and the realities of today's corporate travel restrictions, which may be with us for some time yet.

Approximately 82% of non-U.S. respondents to the in-progress Q1 2021 JETNET iQ Survey strongly or somewhat agree that they are hesitant to attend in-person events in the 1<sup>st</sup> Half of 2021. Two-thirds of respondents feel that same way about events scheduled in the 2<sup>nd</sup> Half of 2021, suggesting that international attendance at industry events and conferences will remain well below prior years, at least for the time being.



Hesitant to Attend In-Person All Excluding U.S. Respondents



Source: Q1 2021 JETNET iQ Survey (in progress)

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# About JETNET iQ

JETNET IQ is a business aviation market research, analysis and forecasting service consisting of three main elements:

- JETNET iQ Reports are the definitive analytical reference for business aviation, incorporating quarterly state-of-the-industry analyses, owner / operator surveys, and detailed delivery and fleet forecasts;
- JETNET IQ Summits are annual industry conferences providing unique data, insights and networking opportunities; and
- JETNET iQ Consulting provides customized research and analysis for clients on a project-by-project basis.

JETNET iQ Reports are available in various formats on a subscription basis, and are published regularly by JETNET LLC, 101 First Street, Utica, NY 13501 - currently offered at 11 different levels. JETNET iQ is a partnership between JETNET LLC of Utica, New York and Rolland Vincent Associates, LLC, of Plano, Texas.

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Since late 2010, JETNET has conducted quarterly surveys of the worldwide community of business aircraft owners and operators in order to gauge customer sentiment, brand perceptions, aircraft purchase, selling, and utilization expectations, and other factors. JETNET iQ Global Business Aviation Surveys are password-protected and by invitation-only. Potential respondents are drawn randomly from the JETNET worldwide database of business jet and business turboprop owners and operators; they are initially contacted by telephone and/or e-mail by JETNET's team of multilingual researchers. Target respondents include chief pilots, directors of aviation, and senior management. Each survey includes at least 500 respondents in 50 or more countries each quarter, and respondents closely reflect the worldwide distribution of the business jet and turboprop community.

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# Appendix

### Data sources:

Real GDP growth forecasts (2021): The Economist – April 3, 2021 https://www.economist.com/economic-and-financial-indicators/2021/04/03/economic-data-commodities-and-markets Stock Markets: Dow Jones Industrial Average: http://ca.spindices.com/indices/equity/dow-jones-industrial-average London Stock Exchange (FTSE 100): https://www.londonstockexchange.com/indices/ftse-100 Euronext Paris (CAC 40): https://live.euronext.com/en/product/indices/FR0003500008-XPAR Frankfurt Stock Exchange (DAX 30): https://www.boerse-frankfurt.de/indices/dax?mic=XETR Initial Unemployment Claims: Bureau of Labor Statistics (U.S.); https://www.dol.gov/ui/data.pdf; "SA" = seasonally adjusted Unemployment: Bureau of Labor Statistics (U.S.); https://www.bls.gov/news.release/pdf/empsit.pdf Consumer Confidence: University of Michigan Survey of Consumers (U.S.); http://www.sca.isr.umich.edu European Commission (Euro Area) – Economic Sentiment Indicator; https://ec.europa.eu/info/sites/info/files/full\_bcs\_2021\_02\_en.pdf Business Confidence: U.S. ISM Manufacturing PMI (U.S.) https://www.ismworld.org/globalassets/pub/research-and-surveys/rob/pmi/rob202103pmi.pdf Eurostat (Euro Area); https://ec.europa.eu/eurostat/databrowser/view/teibs010/default/table?lang=en https://ec.europa.eu/eurostat/databrowser/view/ei\_bsci\_m\_r2/default/table?lang=en Business aircraft fleet, deliveries, transactions, days-on-market (DOM), utilization: JETNET; GAMA Survey results: JETNET iQ Global Business Aviation Surveys (Quarterly) COVID-19: Johns Hopkins University of Medicine - https://coronavirus.jhu.edu/map.html Photo credits: All photos / images: Rolland Vincent Associates, LLC / JETNET iQ

### **Definitions and Abbreviations:**

For the purposes of these Reports, business aircraft may be classified into 4 primary categories, reflecting propulsion, price, performance, and weight class differences. These categories are: Turboprops (Single-Engine Turboprops - SETP and Multi-Engine Turboprops - METP), Small Jets (Personal Jets, Very Light Jets, Light Jets), Medium Jets (Super-Light Jet, Mid-Size Jet, Super Mid-Size Jet), and Large Jets (Large Jet, Large Long-Range Jet, Large Ultra Long-Range Jet, Airline Business Jet). The "Personal Jet" category includes single-engine turbofan-powered models, today represented by the Cirrus Vision Jet.

- B&GA: Business & General Aviation EIS: Entry in Service FBO: Fixed Base Operator (private air terminal) FTSE: Financial Times Stock Exchange (London) GAMA: General Aviation Manufacturers Association GPP: Gross Domestic Product
- HNWI: High Net Worth Individual MTOW: Maximum Takeoff Weight NGO: Non-Governmental Organization OEM: Original Equipment Manufacturer QOQ: Quarter over Quarter OTD: Quarter to Date
- S&P: Standard & Poor's TTM: Trailing Twelve Months WHO: World Health Organization YOY: Year over Year YTD: Year to Date

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