# **ECOWEEK**

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**18 December 2020** 

2-3

**EDITORIAL** 

"The narratives of 2020"

4-5

#### MARKETS OVERVIEW

Recent market developments (foreign exchange, stock markets, interest rates, commodities, etc.)

### **ECONOMIC PULSE**

Japan: a sharp economic slowdown expected in Q4

Mobility: between lockdowns and restrictions, the dynamic is stagnating

#### **ECONOMIC SCENARIO**

Main economic and financial forecasts.

10-12 13

#### **CALENDARS**

This week's main economic data and key releases for next week

#### FURTHER READING

Latest articles, charts, videos and podcasts of Group Economic Research

**ECO**NOMIC RESEARCH



The bank for a changing world

# **EDITORIAL**

2

#### THE NARRATIVES OF 2020

Narratives – the stories people tell about events – may influence behaviour. In future years, several narratives may very well be used when looking back at economic developments in 2020. Big, unanticipated shocks do happen. In terms of monetary policy, a 'whatever it takes' attitude prevails. This also applies increasingly to fiscal policy. In terms of financial markets, the dominant attitude towards risky assets is to buy rather than to say 'bye bye'. With Next Generation EU, the European Union has again demonstrated that, under pressure, it can make big leaps forward. Finally, attention to sustainable growth has become ubiquitous. Some of these narratives provide comfort but several also come with a warning.

In his presidential address to the annual meeting of the American Economic Association in 2017, Nobel laureate Robert Shiller argued that one should consider the possibility that the severity of a recession is related to the prevalence and vividness of certain stories. These form a narrative, a term that refers to "a simple story or easily expressed explanation of events that many people want to bring up in conversation or on news or social media because it can be used to stimulate the concerns or emotions of others, and/ or because it appears to advance self-interest." Narratives are relevant because they can influence future behaviour. Past traumatic experiences – e.g. losing money in a stock market crash – can influence how, many years later, certain investors deal with risk and uncertainty. In future years, at least six narratives may be used when looking back at economic developments in 2020.

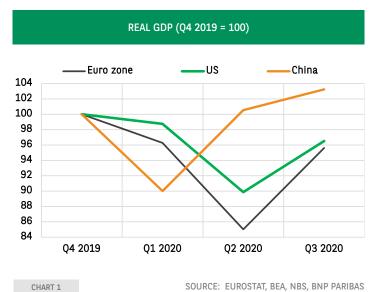
First, black swans exist or, to put it differently, big, unanticipated shocks do happen. As these shocks are so rare, it is difficult to prepare for them, e.g. by buying insurance. The pandemic-induced shock to demand and supply was of a size that would have been considered unthinkable 12 months ago. The disruption of supply chains was a wake-up call of the necessity to test their resilience considering that climate events or cybersecurity attacks could also trigger tail risks.

Second, in terms of monetary policy, the 'whatever it takes' reaction prevails. Quantitative easing is used by an increasing number of central banks, including in emerging markets. The Federal Reserve has committed to accept a moderate and temporary overshooting of its inflation target in order to have average inflation over time in line with its 2% objective. Its corporate bond purchases have played a key role in stabilising this market, thereby avoiding a further blow to the liquidity and solvency of many issuers. This week, it announced that asset purchases will continue at least at the current pace until substantial progress has been made in reaching the maximum employment and price stability goals. The ECB's Pandemic Emergency Purchase Programme has been instrumental in controlling the longer end of the yield curve –despite the sizeable increase in issuance volume- and in driving down sovereign spreads versus Bund yields.

Third, 'whatever it takes' has been extended to fiscal policy. The huge increase in budget deficits was partly automatic and hence unavoidable –because of the role of automatic stabilisers- but it was also the result of much-needed policy decisions to cushion the consequences of the sudden and very deep recession on household and businesses via income support, changes in taxation and loan guarantees.

Fourth, in terms of financial investments, the dominant attitude has been to buy risky assets – equities, corporate bonds, emerging markets – rather than to say 'bye bye' to the market. This is largely related to the monetary and fiscal policy support, including the commitment of central banks to do more if necessary, but also to an environment of negative real interest rates.

Fifth, the European Union has again demonstrated that, under pressure, it can make big leaps forward, witness the EUR 750 bn Next Generation EU initiative that is financed at the EU level and partly consists of grants.



<sup>1.</sup> Robert J. Shiller, *Narrative economics, American Economic Review*, 2017, https://doi.org/10.1257/aer.107.4.967



Several of the narratives of 2020 come with a warning, such as the need to pay attention to possible unintended consequences of sustained very accommodative monetary policy, to moral hazard risk and to the necessity to bring public finances under control.

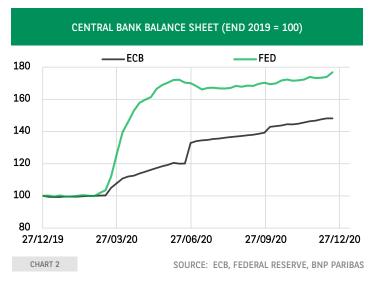


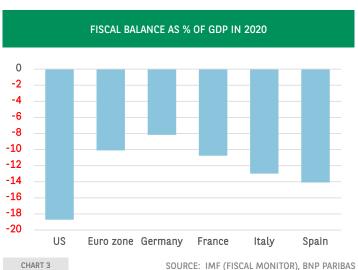


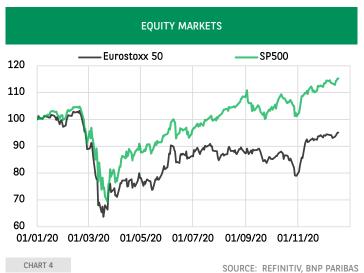
Finally, attention to sustainable growth has become ubiquitous. Companies which scored high in terms of ESG criteria suffered less during the equity sell-off in February and March. The pandemic should make people more aware of how global warming could also provoke "Black Swan" events. Climate related disasters such as heat waves, floodings and drought are likely to claim many human lives and cause enormous economic damage in the coming decades. The necessity to contribute to limiting the increase of average temperature and, more generally, to care more about the environment in order to protect the well-being of its people has played a key role in setting the priorities of fiscal stimulus at the national - think of France and Germany and European level. Unfortunately, even despite all the efforts to limit global warming to less than 1.5°C, it will take at least until the middle of the century that carbon neutrality can be reached and the global temperature curve can start showing signs of reversing.

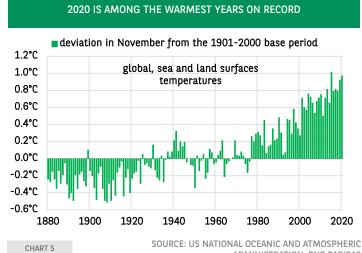
To conclude, certain stories about 2020 that may be told in future provide comfort: the prospect of enhanced resilience of the supply side, the ability of the EU countries to act jointly, the focus on sustainability, the 'can do' approach of 'whatever it takes'. However, several narratives also come with a warning, such as the need to pay attention to possible unintended consequences of sustained very accommodative monetary policy, to moral hazard risk and to the necessity to bring public finances under control.

William De Vijlder









ADMINISTRATION, BNP PARIBAS





# **MARKETS OVERVIEW**

#### **OVERVIEW**

| Week 11-12 20 to          | 17-12-20 | )     |      |    |
|---------------------------|----------|-------|------|----|
| <b>⊅</b> CAC 40           | 5 508 I  | 5 549 | +0.8 | %  |
| <b>⊅</b> S&P 500          | 3 663 I  | 3 722 | +1.6 | %  |
| ■ Volatility (VIX)        | 23.3     | 21.9  | -1.4 | pb |
| <b>⊅</b> Libor \$ 3M (%)  | 0.22     | 0.24  | +2.0 | bp |
| 7 OAT 10y (%)             | -0.44    | -0.40 | +4.3 | bp |
| 7 US Tr. 10y (%)          | 0.89     | 0.93  | +3.8 | bp |
| <b>⊅</b> Euro vs dollar   | 1.21     | 1.22  | +1.1 | %  |
| <b>对</b> Gold (ounce, \$) | 1 846    | 1 888 | +2.3 | %  |
| → Oil (Brent, \$)         | 50.1     | 51.6  | +3.0 | %  |

#### **MONEY & BOND MARKETS**

| Interest Rates |       | high  | hes | t 20  | lo    | west | 20    | Yield (%)    |       | higi   | nest 20  | lov   | vest 20  |
|----------------|-------|-------|-----|-------|-------|------|-------|--------------|-------|--------|----------|-------|----------|
| € ECB          | 0.00  | 0.00  | at  | 01/01 | 0.00  | at   | 01/01 | € AVG 5-7y   | -0.46 | 0.72   | at 18/03 | -0.48 | at 11/12 |
| Eonia          | -0.47 | -0.44 | at  | 31/03 | -0.49 | at   | 30/09 | Bund 2y      | -0.72 | -0.58  | at 14/01 | -1.00 | at 09/03 |
| Euribor 3M     | -0.54 | -0.16 | at  | 23/04 | -0.55 | at   | 10/12 | Bund 10y     | -0.58 | -0.17  | at 19/03 | -0.84 | at 09/03 |
| Euribor 12M    | -0.50 | -0.05 | at  | 22/04 | -0.51 | at   | 09/12 | OAT 10y      | -0.40 | 0.28   | at 18/03 | -0.44 | at 11/12 |
| \$ FED         | 0.25  | 1.75  | at  | 01/01 | 0.25  | at   | 16/03 | Corp. BBB    | 0.55  | 2.54   | at 24/03 | 0.51  | at 11/12 |
| Libor 3M       | 0.24  | 1.91  | at  | 01/01 | 0.20  | at   | 20/11 | \$ Treas. 2y | 0.13  | 1.59   | at 08/01 | 0.11  | at 04/08 |
| Libor 12M      | 0.33  | 2.00  | at  | 01/01 | 0.33  | at   | 28/10 | Treas. 10y   | 0.93  | 1.91   | at 01/01 | 0.50  | at 09/03 |
| £ BoE          | 0.10  | 0.75  | at  | 01/01 | 0.10  | at   | 19/03 | High Yield   | 4.87  | 1 1.29 | at 23/03 | 4.87  | at 17/12 |
| Libor 3M       | 0.05  | 0.80  | at  | 08/01 | 0.03  | at   | 08/12 | £ gilt. 2y   | -0.03 | 0.61   | at 08/01 | -0.12 | at 21/09 |
| Libor 12M      | 0.11  | 0.98  | at  | 01/01 | 0.08  | at   | 11/12 | gilt. 10y    | 0.29  | 0.83   | at 01/01 | 0.04  | at 04/08 |
| At 17-12-20    | _     |       |     |       |       |      |       | At 17-12-20  |       |        |          |       |          |

#### **EXCHANGE RATES**

| 1€=    |        | high   | est 20   | low    | est/ | 20    | 2020   |
|--------|--------|--------|----------|--------|------|-------|--------|
| USD    | 1.22   | 1.22   | at 17/12 | 1.07   | at   | 20/03 | +9.1%  |
| GBP    | 0.90   | 0.94   | at 23/03 | 0.83   | at   | 18/02 | +6.3%  |
| CHF    | 1.08   | 1.09   | at 05/06 | 1.05   | at   | 14/05 | -0.4%  |
| JPY    | 126.17 | 126.82 | at 31/08 | 114.51 | at   | 06/05 | +3.4%  |
| AUD    | 1.61   | 1.87   | at 23/03 | 1.60   | at   | 01/01 | +0.7%  |
| CNY    | 8.00   | 8.26   | at 30/07 | 7.55   | at   | 19/02 | +2.3%  |
| BRL    | 6.20   | 6.75   | at 28/10 | 4.51   | at   | 02/01 | +37.2% |
| RUB    | 89.23  | 93.98  | at 02/11 | 67.75  | at   | 10/01 | +28.0% |
| INR    | 90.10  | 90.10  | at 17/12 | 77.21  | at   | 17/02 | +12.5% |
| At 17- | 12-20  |        |          |        |      |       | Change |

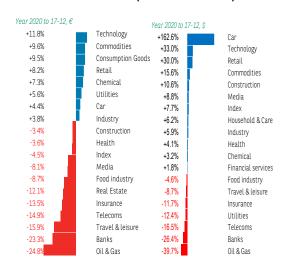
#### COMMODITIES

| Spot price, \$ |       | hig   | hest | 20    | lov   | ves | t 20  | 2020   | 2020(€) |
|----------------|-------|-------|------|-------|-------|-----|-------|--------|---------|
| Oil, Brent     | 51.6  | 69.1  | at   | 06/01 | 16.5  | at  | 21/04 | -22.2% | -28.7%  |
| Gold (ounce)   | 1 888 | 2 053 | at   | 06/08 | 1 475 | at  | 19/03 | +24.2% | +13.8%  |
| Metals, LMEX   | 3 502 | 3 502 | at   | 17/12 | 2 232 | at  | 23/03 | +23.2% | +12.9%  |
| Copper (ton)   | 7 900 | 7 900 | at   | 17/12 | 4 625 | at  | 23/03 | +28.5% | +17.8%  |
| wheat (ton)    | 234   | 2.4   | at   | 21/01 | 178   | at  | 26/06 | +2.1%  | -6.4%   |
| Corn (ton)     | 167   | 1.7   | at   | 17/12 | 113   | at  | 28/04 | +1.2%  | +2.5%   |
| At 17-12-20    | _     |       |      |       |       |     |       |        | Change  |

#### **EQUITY INDICES**

|                    | Index  | highest 20      | lowest 20       | 2020   |
|--------------------|--------|-----------------|-----------------|--------|
| World              |        |                 |                 |        |
| MSCI World         | 2 675  | 2 675 at 17/12  | 1 602 at 23/03  | +13.4% |
| North America      |        |                 |                 |        |
| S&P500             | 3 722  | 3 722 at 17/12  | 2 237 at 23/03  | +15.2% |
| Europe             |        |                 |                 |        |
| EuroStoxx50        | 3 561  | 3 865 at 19/02  | 2 386 at 18/03  | -4.9%  |
| CAC 40             | 5 549  | 6 111 at 19/02  | 3 755 at 18/03  | -0.7%  |
| DAX 30             | 13 667 | 13 789 at 19/02 | 8 442 at 18/03  | +3.2%  |
| IBEX 35            | 8 153  | 10 084 at 19/02 | 6 107 at 16/03  | -1.5%  |
| FTSE100            | 6 551  | 7 675 at 17/01  | 4 994 at 23/03  | -1.3%  |
| Asia               |        |                 |                 |        |
| MSCI, loc.         | 1 042  | 1 042 at 17/12  | 743 at 23/03    | +0.3%  |
| Nikkei             | 26 807 | 26 818 at 09/12 | 16 553 at 19/03 | +13.3% |
| Emerging           |        |                 |                 |        |
| MSCI Emerging (\$) | 1 273  | 1 273 at 17/12  | 758 at 23/03    | +1.4%  |
| China              | 107    | 109 at 09/11    | 69 at 19/03     | +24.6% |
| India              | 656    | 656 at 17/12    | 353 at 23/03    | +14.4% |
| Brazil             | 1 920  | 2 429 at 02/01  | 1 036 at 23/03  | +1.8%  |
| Russia             | 679    | 857 at 20/01    | 419 at 18/03    | -2.7%  |
| At 17-12-20        | _      |                 |                 | Change |

### PERFORMANCE BY SECTOR (Eurostoxx50 & S&P500)



SOURCE: THOMSON REUTERS,





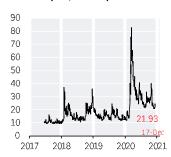
# **MARKETS OVERVIEW**



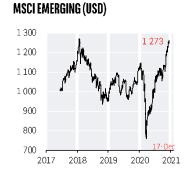




#### **VOLATILITY (VIX, S&P500)**

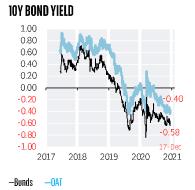






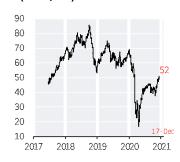
#### **10Y BOND YIELD, TREASURIES VS BUND**



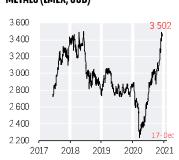


#### **10Y BOND YIELD & SPREADS** 0.51% 108 bp Italy 0.03% Spain 60 bp 0.01% -0.38% 19 bp -0.40% -0.46% Finland 11 bp -0 49% Austria 8 bp -0.56% -0.57% Ireland 0 bp

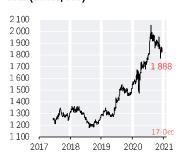
#### OIL (BRENT, USD)







#### GOLD (OUNCE, USD)



SOURCE: THOMSON REUTERS,



# **ECONOMIC PULSE**

6

### JAPAN: A SHARP ECONOMIC SLOWDOWN EXPECTED IN Q4

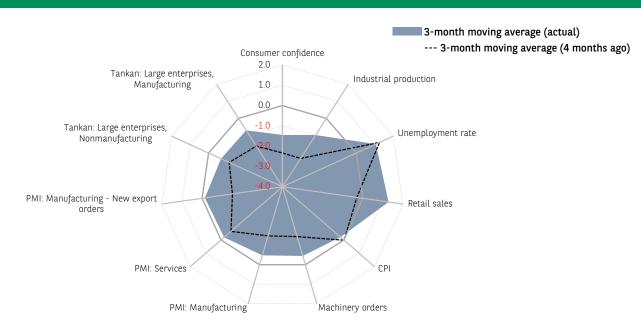
Compared to the US or European economies, Japan has been so far relatively unscathed by the Covid-19 pandemic. The country's public health measures have been less strict than those implemented elsewhere. A resurgence in infections in Japan and its main trading partners hitting demand would result in a marked deceleration in economic activity in Q4 2020.

Over recent months the economic situation has improved, but overall economic activity was still below its pre-crisis level. On the industrial side, production contracted further in October 2020 (the most recent available figure) on a year-on-year basis, albeit by much less than in previous months (-3%, after -9.8% in September and -14.2% in August). Meanwhile, Purchasing Managers Index (PMI) for the manufacturing sector, an advance indicator of economic activity, continued its gradual recovery in December (at 49.7) but remained slightly below the threshold of 50 that separates expansion from recession, and below its long-term average. The Bank of Japan's Tankan index for Q4 2020 sends a comparable message. The manufacturing sector benefitted in particular from a return to growth in Japan's trading partners, especially China, but is now suffering from the tightening of health measures in many parts of the world.

After a slow recovery over the past few months, the services PMI experienced a timid fall in December to reach only 47.2, a low level compared to its long-term average. This is in contrast with the normalisation of the consumer confidence indicator, which has been on a rising trend since its low point in April 2020. However, consumer confidence has not regained its pre-crisis level, and stabilised somewhat in November (to 33.7, compared to 38.4 in February). Meanwhile, retail sales experienced a significant increase in October (6.4% year-on-year) - the first gain since February - but could now stall. Uncertainties remain regarding the health crisis and the situation in the labour market, given the decreasing trend followed by wages and the rising trend in unemployment since the beginning of 2020. This could persist in the coming months, as companies concentrate first on restoring margins. Against this background, prices fell in October, dropping 0.4% year-on-year. Given this, the Bank of Japan has launched an overall review of its monetary policy.

**Louis Boisset** 

#### **QUARTERLY CHANGES**



SOURCE: THOMSON REUTERS, BNP PARIBAS

The indicators in the radar and surprise charts are all transformed into z-scores. By construction, the z-scores have mean zero and their values, which indicate how far the indicator is removed from its long-term average, are in the interval between -4 and 2 in almost all cases. In the radar chart, the blue area shows the actual conditions of economic activity. It is compared with the situation four months earlier (dotted-line). An expansion of the blue area signals an improvement. In the right pane, the surprise is an actual outcome that differs from the market forecast (Bloomberg).



# **ECONOMIC PULSE**

7

### MOBILITY: BETWEEN LOCKDOWNS AND RESTRICTIONS, THE DYNAMIC IS STAGNATING

At the approach of the holiday season and fearing another resurgence in the coronavirus pandemic, several European countries have tightened their lockdowns to contain the level of contamination. We can expect that in the weeks ahead, these new restrictions will have a clear impact on the momentum of retail and leisure traffic flows. Over the past week, momentum was already stagnant in most of the European countries, as illustrated by the Google Mobility Report released on 13 December.

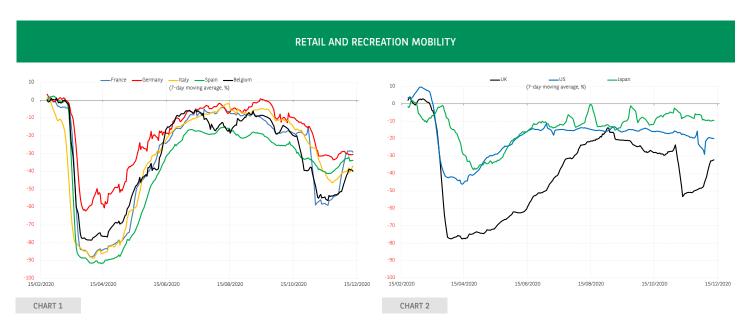
In Germany, customer traffic has been stable since November, with a 7-day moving average of 30% relative to the baseline\* (chart 1). In a television address on 13 December, Chancellor Angela Merkel announced that Germany would return to a hard lockdown from 16 December until early January. This is likely to reduce retail and leisure customer traffic in the weeks ahead. In France, the lockdown was loosened and a curfew from 8 pm to 6 am replaced the earlier travel restrictions. Non-essential shops could reopen but restaurants, bars and cultural establishments remained closed. Customer traffic flows, which have been stable with a 7-day moving average holding at about 29% relative to the baseline, is expected to pick up in the coming weeks. In Belgium and Spain, traffic trends have also been fairly stable with a 7-day moving average of 40% and 33%, respectively, relative to the baseline. In Italy, in contrast, unlike its neighbouring countries, the momentum of customer traffic continues to build with a 7-day moving average of 37% relative to the baseline. The country, which holds the sad record for the most Covid-19 deaths in Europe, will ban travel between regions from 21 December through 6 January, and will continue to enforce a curfew from 10 pm to 5 am. In the UK, which launched a massive Covid-19 vaccination campaign on 8 December, customer traffic continues to gain

momentum with a 7-day moving average of 33% relative to the baseline, after a huge decline to 53% when the lockdown began in early November (chart 2).

Following the UK's lead, the United States launched a Covid-19 vaccination campaign on 14 December. After experiencing a surge in new infections in recent weeks, the country surpassed a grim milestone of 300,000 deaths. Retail traffic has picked up slightly with a 7-day moving average of 20 relative to the baseline (chart 2). In Japan, traffic trends have remained stable since June, with the 7-day moving average declining to 10% relative to the baseline (chart 2). Yet the country is on maximum alert to counter a spike in the number of new cases, notably in Tokyo, where hospitals are overloaded with a record number of new cases (chart 2).

According to the latest figures published by Markit (chart 3), the flash PMI index for the services sector in France rebounded from 38.8 in November to 49.2 in December, although remaining below the 50-mark that separates contraction from expansion. The highest score since August. In the UK and Germany, services also continued to contract albeit at a slower pace, as the PMI rose to 49.9 and 47.7, respectively, in December, from 47.6 and 46 in November. In the United States, growth in services is losing momentum as the PMI declined from 58.4 in November to 55.3 in December, the lowest score in three months. Restrictions imposed by individual states combined with weaker demand have strained overall economic activity. In Japan, the services PMI was virtually flat at 47.2 in December. These figures reaffirm the close correlation between retail and leisure customer traffic flows and the services PMI indexes.

Tarik Rharrab



SOURCE: GOOGLE (LAST UPDATE 13 DECEMBER 2020), BNP PARIBAS

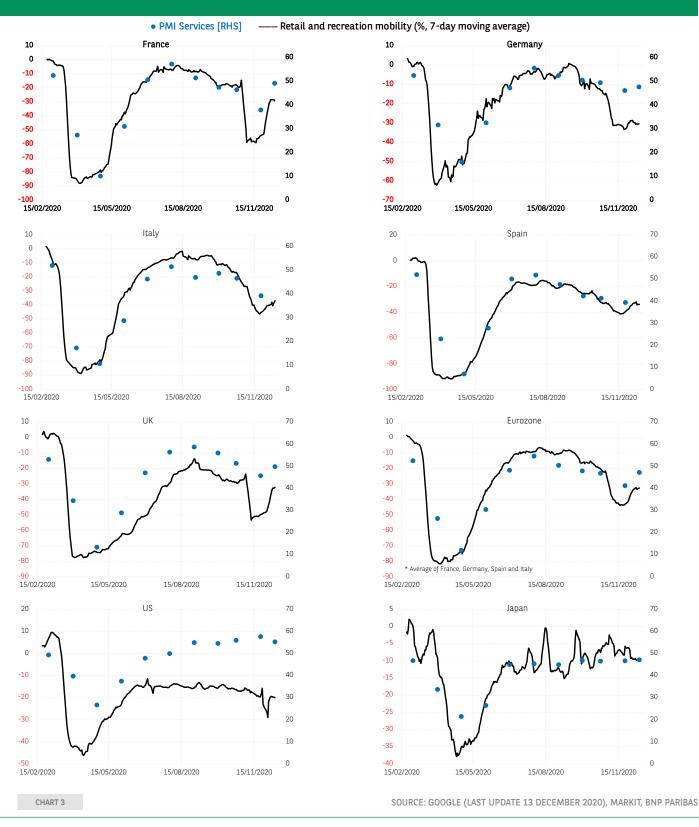
\* Google Mobility Reports show how visits and length of stay at different places change compared to a baseline. The baseline is the median value, for the corresponding day of the week, during the 5-week period Jan 3-Feb 6, 2020. A figure of negative 30% indicates that traffic was down 30% compared to a baseline. The reports show trends over several weeks with the most recent data representing approximately 2-3 days ago—this is how long it takes to produce the reports. In order to smooth the series, we use a seven-day moving average of the raw data in the Google Mobility Reports. Source: Google





# **ECONOMIC PULSE**

#### RELATIONSHIP BETWEEN MARKIT PMI SURVEYS IN THE SERVICES SECTOR AND RETAIL AND RECREATION MOBILITY





# **ECONOMIC SCENARIO**

#### **UNITED STATES**

With a drop in GDP of an estimated 3.6% in 2020, the USA has experienced a record-breaking recession, albeit one that has been less severe than in most other countries. The health cost of the Covid-19 epidemic has, however, been immense, with the USA having the highest number of deaths in the world and suffering a higher mortality rate than the European Union. As we move into winter, the disease is surging again, forcing certain states, such as New York and California, to tighten social distancing measures. Although the economy had seemed able to avoid a further contraction, it could be flatlining at the start of the new year, although a gradual return to normal is then expected as vaccines become available.

#### CHINA

After plummeting in Q1 2020, economic activity has experienced a V-shaped rebound since Q2. The recovery has first been driven principally by industrial production and investment in infrastructure projects and the real estate sector. Then exports have strengthened, supported by the rebound in global demand. Finally, the services sector and private consumption have regained growth momentum since last summer. In the short term, fiscal policy should continue to support economic growth. Domestic credit conditions, which have been eased prudently in 2020, are expected to start to be tightened from Q4, as the authorities aim to contain risks in the financial system.

### **EUROZONE**

After plummeting in Q2 2020 (-11.8% q/q, after -3.7% in Q1 2020), eurozone GDP rebounded robustly in Q3 2020 (+12.6%), exceeding expectations. Given the resurgence of the pandemic and the implementation of new sanitary restrictions in most of the member states, the recovery is losing momentum, raising fears that the economic situation could further deteriorate in the year-end period. The activity loss caused by the Covid-19 crisis is unlikely to be fully erased before year-end 2021. Worries about the pandemic and unemployment trends in eurozone member states in the months ahead are shaking consumer confidence, which remains low. The risk of corporate defaults continues to rise as long as the pandemic is not completely under control, which is undermining private investment. Support from fiscal policy at both the national and European levels will be essential, as is maintaining an accommodating and flexible monetary policy.

#### FRANCE

The risks have materialized for a W-shaped growth profile. After the massive recessionary shock of H1 2020 due to the first lockdown, the economy vigorously recovered in Q3 before relapsing again in Q4 under the impact of a new lockdown designed to curb the second wave of the Covid-19 pandemic. Yet the second V is bound to be less pronounced than the first: on the downside because the second lockdown was not as restrictive nor as long, and on the upside because this time the restrictive measures will be lifted gradually and conditionally. Major fiscal resources have been deployed that effectively buffered the double shock, but still the economy has been weakened, which is straining its rebound capacity. The possible start-up of a massive vaccination campaign in 2021 raises hopes that we might be seeing the light at the end of the tunnel. Growth should also get a boost from the first effects of the France Relance stimulus package. French GDP is expected to catch up pre-crisis levels during 2022 and the economy to return to 100% of its normal functioning. Inflation is also expected to pick up, but will hold at extremely low levels.

#### INTEREST RATES AND FX RATES

In the US, the Federal Reserve's new strategy of targeting average inflation implies a dovish twist. Policy should remain on hold for quite some time, considering that the FOMC wants inflation to move beyond 2% so as to make up for below target inflation in recent years. Should the economic situation worsen, more measures are to be expected but this also depends on the size and nature of the expected fiscal stimulus. Treasury yields should move higher on the back of fiscal stimulus and the economic recovery and because the Fed will accept and actually wants inflation to rise beyond 2%.

In the eurozone, at its December meeting, the ECB is expected to announce measures to support the economy, all the more so considering that core inflation has dropped to a very low level. The very accommodative stance will be maintained for a long time. It should keep a lid on sovereign bond spreads. As usual, eurozone bond yields will be very much influenced by what happens to US yields. The prospect of a more lasting recovery as a vaccine will be deployed, should contribute to somewhat higher bond yields.

The Bank of Japan is expected to maintain its current policy stance including its yield curve control strategy.

We expect the dollar to weaken versus the euro. Due to the limited short-term interest rate differential, international investors incur low costs when they want to hedge their dollar exposure, the euro is still undervalued versus the dollar and the Fed's new strategy of targeting average inflation implies a more dovish stance compared to the ECB which should support the euro. Similar arguments apply for the dollar versus the yen.

|                |      | GRO    | WTH &  | INFLAT | ION |      |        |        |        |
|----------------|------|--------|--------|--------|-----|------|--------|--------|--------|
|                |      | GDP    | Growth |        |     |      | Infla  | ation  |        |
| %              | 2019 | 2020 e | 2021 e | 2022 e |     | 2019 | 2020 e | 2021 e | 2022 e |
| United-States  | 2.2  | -3.6   | 3.7    | 3.2    |     | 1.8  | 1.3    | 1.9    | 1.9    |
| Japan          | 0.7  | -5.4   | 1.5    | 1.8    |     | 0.5  | 0.0    | -0.4   | -0.3   |
| United-Kingdom | 1.5  | -11.5  | 6.4    | 6.8    |     | 1.8  | 0.9    | 1.5    | 2.1    |
| Euro Area      | 1.3  | -7.5   | 5.6    | 3.9    |     | 1.2  | 0.2    | 0.8    | 1.3    |
| Germany        | 0.6  | -5.9   | 4.2    | 3.6    |     | 1.4  | 0.4    | 1.3    | 1.2    |
| France         | 1.5  | -9.5   | 6.3    | 3.8    |     | 1.3  | 0.5    | 0.6    | 1.2    |
| Italy          | 0.3  | -9.1   | 6.0    | 3.4    |     | 0.6  | -0.2   | 0.5    | 1.3    |
| Spain          | 2.0  | -11.8  | 7.0    | 4.9    |     | 0.8  | -0.4   | 0.4    | 0.9    |
| China          | 6.1  | 2.0    | 8.6    | 5.3    |     | 2.9  | 2.6    | 2.3    | 2.8    |
| India*         | 4.2  | -11.4  | 11.6   | 5.0    |     | 4.8  | 5.8    | 4.3    | 3.8    |
| Brazil         | 1.1  | -4.5   | 3.0    | 3.0    |     | 3.7  | 3.1    | 4.0    | 4.0    |
| Russia         | 1.3  | -4.5   | 3.8    | 3.0    |     | 4.3  | 3.4    | 3.5    | 3.5    |

SOURCE: BNP PARIBAS GROUP ECONOMIC RESEARCH (E: ESTIMATES & FORECASTS)

\*FISCAL YEAR FROM 1<sup>ST</sup> APRIL OF YEAR N TO MARCH 31<sup>ST</sup> OF YEAR N+1

\*\*LAST UPDATE 23/11/2020

#### **INTEREST & EXCHANGE RATES**

| Interes       | t rates, %                 | 2021  |       |       |       |       |       |
|---------------|----------------------------|-------|-------|-------|-------|-------|-------|
| End of period |                            | Q1e   | Q2e   | Q3e   | Q4e   | 2021e | 2022e |
| US            | Fed Funds<br>(upper limit) | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  |
|               | T-Notes 10y                | 1.10  | 1.20  | 1.30  | 1.40  | 1.40  | 1.50  |
| Ezone         | Deposit rate               | -0.50 | -0.50 | -0.50 | -0.50 | -0.50 | -0.50 |
|               | Bund 10y                   | -0.35 | -0.50 | -0.40 | -0.20 | -0.20 | 0.10  |
|               | OAT 10y                    | -0.10 | -0.25 | -0.15 | 0.10  | 0.10  | 0.50  |
|               | BTP 10y                    | 0.75  | 0.60  | 0.80  | 1.20  | 1.20  | 1.70  |
|               | BONO 10y                   | 0.35  | 0.20  | 0.40  | 0.60  | 0.60  | 1.00  |
| UK            | Base rate                  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  |
|               | Gilts 10y                  | 0.40  | 0.40  | 0.50  | 0.60  | 0.60  | 0.75  |
| Japan         | BoJ Rate                   | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 |
|               | JGB 10y                    | 0.05  | 0.05  | 0.10  | 0.10  | 0.10  | 0.15  |

| Exchan | ge Rates  | 2021 |      |      |      |       |       |
|--------|-----------|------|------|------|------|-------|-------|
| End of | period    | Q1e  | Q2e  | Q3e  | Q4e  | 2021e | 2022e |
| USD    | EUR / USD | 1.22 | 1.24 | 1.25 | 1.25 | 1.25  | 1.30  |
|        | USD / JPY | 101  | 100  | 98   | 98   | 98    | 95    |
|        | GBP / USD | 1.39 | 1.41 | 1.44 | 1.44 | 1.44  | 1.59  |
| EUR    | EUR / GBP | 0.88 | 0.88 | 0.87 | 0.87 | 0.87  | 0.82  |
|        | EUR / JPY | 123  | 124  | 123  | 123  | 123   | 124   |

| Brent          | 2021 |     |     |     |       |       |
|----------------|------|-----|-----|-----|-------|-------|
| Period-average | Q1e  | Q2e | Q3e | Q4e | 2021e | 2022e |
| Brent USD/bbl  | 56   | 54  | 55  | 59  | 56    | -     |

LAST UPDATE: 23/11/2020

SOURCE: BNP PARIBAS GLOBAL MARKETS (E: ESTIMATES)



# **CALENDAR**

10

#### **LATEST INDICATORS**

In China, the growth of industrial production in November was in line with the previous month but retail sales growth accelerated, albeit less than expected. In the eurozone, new car registration saw a big drop but the flash PMI for December brought good news, improving significantly in both manufacturing and services, thereby beating expectations. A similar observation can be made for France, where in particular the services sector saw a huge and unexpected improvement in sentiment. The INSEE business climate rebounded strongly (from 79 to 91 in December), driven by services and retail trade. In Germany, the PMIs improved as well but less so considering that their earlier decline had been more limited. The IFO business climate picked up more than expected, driven by a better assessment of the current situation. Expectations improved as well but to a lesser degree. In Japan, the data (Tankan survey, PMI) improved more than anticipated. The inertia of inflation -at a very low level- remains a concern for the Bank of Japan, which as a consequence will conduct a strategy review to assess whether any change is needed in the conduct of its monetary policy. In the UK, the PMIs improved somewhat and consumer confidence picked up even more. Retail sales on the other hand declined, but less than expected. Data in the US were weaker and retail sales in particular disappointed. The FOMC decided to continue its QE "until substantial further progress has been made toward [its] maximum employment and price stability goals."

| DATE       | COUNTRY       | INDICATOR                     | PERIOD | SURVEY | ACTUAL | PREVIOUS |
|------------|---------------|-------------------------------|--------|--------|--------|----------|
| 12/14/2020 | Japan         | Tankan Large Mfg Outlook      | 4Q     | -11    | -8     | -17      |
| 12/14/2020 | Japan         | Tankan Large Non-Mfg Outlook  | 4Q     | -7     | -6     | -11      |
| 12/14/2020 | Japan         | Tankan Small Mfg Outlook      | 4Q     | -34    | -26    | -38      |
| 12/14/2020 | Japan         | Tankan Small Non-Mfg Outlook  | 4Q     | -22    | -20    | -27      |
| 12/14/2020 | Eurozone      | Industrial Production SA MoM  | Oct    | 2.0%   | 2.1%   | 0.1%     |
| 12/15/2020 | China         | Industrial Production YoY     | Nov    | 7.0%   | 7.0%   | 6.9%     |
| 12/15/2020 | China         | Retail Sales YoY              | Nov    | 5.2%   | 5.0%   | 4.3%     |
| 12/15/2020 | China         | Fixed Assets Ex Rural YTD YoY | Nov    | 2.6%   | 2.6%   | 1.8%     |
| 12/15/2020 | China         | Property Investment YTD YoY   | Nov    |        |        | 6.3%     |
| 12/15/2020 | France        | CPI EU Harmonized YoY         | Nov    | 0.2%   | 0.2%   | 0.1%     |
| 12/15/2020 | United States | Empire Manufacturing          | Dec    | 6.9    | 4.9    | 6.3      |
| 12/15/2020 | United States | Industrial Production MoM     | Nov    | 0.3%   | 0.4%   | 0.9%     |
| 12/15/2020 | United States | Capacity Utilization          | Nov    | 72.9%  | 73.3%  | 72.8%    |
| 12/15/2020 | Japan         | Manufacturing PMI             | Dec    | 48.9   | 49.7   | 49       |
| 12/15/2020 | Japan         | Services PMI                  | Dec    |        | 47.2   | 47.8     |
| 12/16/2020 | France        | Manufacturing PMI             | Dec    | 50.1   | 51.1   | 49.6     |
| 12/16/2020 | France        | Markit Composite PMI          | Dec    | 42.9   | 49.6   | 40.6     |
| 12/16/2020 | France        | Services PMI                  | Dec    | 40     | 49.2   | 38.8     |
| 12/16/2020 | Germany       | Composite PMI                 | Dec    | 50.4   | 52.5   | 51.7     |
| 12/16/2020 | Germany       | Manufacturing PMI             | Dec    | 56.4   | 58.6   | 57.8     |
| 12/16/2020 | Germany       | Services PMI                  | Dec    | 44     | 47.7   | 46       |
| 12/16/2020 | Eurozone      | Manufacturing PMI             | Dec    | 53     | 55.5   | 53.8     |

SOURCE: BLOOMBERG





| DATE       | COUNTRY        | INDICATOR                         | PERIOD | SURVEY | ACTUAL | PREVIOUS |
|------------|----------------|-----------------------------------|--------|--------|--------|----------|
| 12/16/2020 | Eurozone       | Markit Composite PMI              | Dec    | 45.8   | 49.8   | 45.3     |
| 12/16/2020 | Eurozone       | Services PMI                      | Dec    | 41.9   | 47.3   | 41.7     |
| 12/16/2020 | United Kingdom | Composite PMI                     | Dec    | 51.3   | 50.7   | 49       |
| 12/16/2020 | United Kingdom | Manufacturing PMI                 | Dec    | 55.9   | 57.3   | 55.6     |
| 12/16/2020 | United Kingdom | Services PMI                      | Dec    | 50.5   | 49.9   | 47.6     |
| 12/16/2020 | United Kingdom | CPI Core YoY                      | Nov    |        | 1.1%   | 0.015    |
| 12/16/2020 | United States  | Retail Sales Control Group        | Nov    | 0.2%   | -0.5%  | -0.1%    |
| 12/16/2020 | United States  | Markit US Manufacturing PMI       | Dec    | 55.7   | 56.5   | 56.7     |
| 12/16/2020 | United States  | Markit US Services PMI            | Dec    | 55.9   | 55.3   | 58.4     |
| 12/16/2020 | United States  | Markit US Composite PMI           | Dec    |        | 55.7   | 58.6     |
| 12/16/2020 | United States  | NAHB Housing Market Index         | Dec    | 88     | 86     | 90       |
| 12/16/2020 | United States  | FOMC Rate Decision (Upper Bound)  | Dec    | 0.25%  | 0.25%  | 0.25%    |
| 12/17/2020 | Eurozone       | EU27 New Car Registrations        | Nov    |        | -12.0% |          |
| 12/17/2020 | France         | Business Confidence               | Dec    | 93     | 93     | 92       |
| 12/17/2020 | Eurozone       | CPI YoY                           | Nov    | -0.3%  | -0.3%  | -0.3%    |
| 12/17/2020 | Eurozone       | CPI Core YoY                      | Nov    | 0.2%   | 0.2%   | 0.2%     |
| 12/17/2020 | United Kingdom | Bank of England Bank Rate         | Dec    | 0.1%   | 0.1%   | 0.1%     |
| 12/17/2020 | United States  | Housing Starts MoM                | Nov    |        | 1.2%   | 6.3%     |
| 12/17/2020 | United States  | Building Permits MoM              | Nov    |        | 6.2%   | -0.1%    |
| 12/17/2020 | United States  | Initial Jobless Claims            | Dec    | 800K   | 885K   | 862K     |
| 12/17/2020 | United States  | Philadelphia Fed Business Outlook | Dec    | 20     | 11.1   | 26.3     |
| 12/17/2020 | United States  | Kansas City Fed Manf. Activity    | Dec    |        | 12     | 20       |
| 12/17/2020 | Japan          | Tokyo Dept Store Sales YoY        | Nov    |        |        |          |
| 12/18/2020 | United Kingdom | GfK Consumer Confidence           | Dec    | -31    | -26    | -33      |
| 12/18/2020 | United Kingdom | Retail Sales Ex Auto Fuel MoM     | Nov    | -3.3%  | -2.6%  | 1.4%     |
| 12/18/2020 | Germany        | IFO Business Climate              | Dec    | 90.0   | 92.1   | 90.9     |
| 12/18/2020 | Germany        | IFO Expectations                  | Dec    | 92.5   | 92.8   | 91.8     |
| 12/18/2020 | Germany        | IFO Current Assessment            | Dec    | 89.0   | 91.3   | 90.0     |
| 12/18/2020 | Japan          | BOJ Policy Balance Rate           | Dec    | -0.1%  | -0.1%  | -0.1%    |

SOURCE: BLOOMBERG



# **CALENDAR: THE WEEK AHEAD**

12

### **COMING INDICATORS**

As usual, the latter part of the month sees the publication of several surveys although, due to the festive season, some will be published later than normal. This explains why the first week of January will be particularly busy. Over the coming three weeks, we will have consumer confidence in several countries, the purchasing managers indices, the ISM indices for manufacturing and services sector in the US as well as the economic confidence survey - and its components - of the European Commission. Finally, at the end of the first week of January we have the all-important labour market report in the US.

| 2/22/2020         Germany         GfK Consumer Confidence         Jan           2/23/7020         United States         Personal Income         Nov           2/23/7020         United States         Real Personal Spending         Nov           2/23/7020         United States         U. of Mich. Sentiment         Dec           2/24/2020         United States         Initial Jobless Claims         Dec           2/24/2020         United States         Cap Goods Orders Nondef Ex Air         Nov           2/24/2020         United States         Conf. Board Consumer Confidence         Dec           2/23/1/2020         China         Composite PMI         Dec           2/23/1/2020         China         Non-manufacturing PMI         Dec           2/23/1/2020         China         Non-manufacturing PMI         Dec           2/23/1/2020         China         Non-manufacturing PMI         Dec           2/1/1/2020         United States         Initial Jobless Claims         Dec           1/1/0/2021         United States         Markit US Manufacturing PMI         Dec           1/1/0/2021         United States         Markit US Manufacturing PMI         Dec           1/1/0/2021         Japan         Consumer Confidence Index         Dec <th>DATE</th> <th>COUNTRY</th> <th>INDICATOR</th> <th>PERIOD</th>  | DATE       | COUNTRY       | INDICATOR                       | PERIOD |
|--|------------|---------------|---------------------------------|--------|
| 2/23/2020     United States     Personal Income     Nov       2/23/2020     United States     Real Personal Spending     Nov       2/23/2020     United States     U. of Mich. Sentiment     Dec       2/24/2020     United States     Initial Jobless Claims     Dec       2/24/2020     United States     Cap Goods Orders Nondef Ex Air     Nov       2/229/2020     United States     Conf. Board Consumer Confidence     Dec       2/31/2020     China     Composite PMI     Dec       2/31/2020     China     Manufacturing PMI     Dec       2/31/2020     China     Non-manufacturing PMI     Dec       2/31/2020     United States     Initial Jobless Claims     Dec       1/104/2021     United States     Markit US Manufacturing PMI     Dec       1/104/2021     United States     Markit US Manufacturing PMI     Dec       1/106/2021     Japan     Consumer Confidence Index     Dec       1/106/2021     Japan     Consumer Confidence     Dec       1/106/2021     United States     Markit US Services PMI     Dec       1/106/2021     United States     FOMC Meeting Minutes     Dec       1/106/2021     United States     FOMC Meeting Minutes     Dec       1/107/2021     Eurozone     Economic  | 12/21/2020 | Eurozone      | Consumer Confidence             | Dec    |
| Personal Spending   Nov  | 12/22/2020 | Germany       | GfK Consumer Confidence         | Jan    |
| 2/2/3/2020         United States         U. of Mich. Sentiment         Dec           2/24/2020         United States         Initial Jobless Claims         Dec           2/24/2020         United States         Cap Goods Orders Nondef Ex Air         Nov           2/29/2020         United States         Conf. Board Consumer Confidence         Dec           2/31/2020         China         Composite PMI         Dec           2/31/2020         China         Mon-manufacturing PMI         Dec           2/31/2020         China         Non-manufacturing PMI         Dec           2/31/2020         United States         Initial Jobless Claims         Dec           2/31/2020         United States         Markit US Manufacturing PMI         Dec           2/31/2020         United States         Markit US Manufacturing PMI         Dec           1/106/2021         Japan         Consumer Confidence Index         Dec           1/106/2021         Japan         Consumer Confidence Index         Dec           1/106/2021         United States         Markit US Composite PMI         Dec           1/106/2021         United States         Markit US Composite PMI         Dec           1/107/2021         Eurozone         Retail Sales MoM         Nov </td <td>12/23/2020</td> <td>United States</td> <td>Personal Income</td> <td>Nov</td>   | 12/23/2020 | United States | Personal Income                 | Nov    |
| United States   Initial Jobless Claims   Dec   | 12/23/2020 | United States | Real Personal Spending          | Nov    |
| 2/24/2020     United States     Cap Goods Orders Nondef Ex Air     Nov       2/29/2020     United States     Conf. Board Consumer Confidence     Dec       2/31/2020     China     Composite PMI     Dec       2/31/2020     China     Manufacturing PMI     Dec       2/31/2020     China     Non-manufacturing PMI     Dec       2/31/2020     United States     Initial Jobless Claims     Dec       1/04/2021     United States     Markit US Manufacturing PMI     Dec       1/106/2021     Japan     Consumer Confidence Index     Dec       1/106/2021     France     Consumer Confidence     Dec       1/106/2021     United States     Markit US Services PMI     Dec       1/106/2021     United States     Markit US Composite PMI     Dec       1/106/2021     United States     Markit US Composite PMI     Dec       1/106/2021     United States     FOMC Meeting Minutes     Dec       1/107/2021     Eurozone     Consumer Confidence     Dec       1/107/2021     Eurozone     Retail Sales MoM     Nov       1/107/2021     Eurozone     Economic Confidence     Dec       1/107/2021     Eurozone     Economic Confidence     Dec       1/107/2021     Eurozone     CPI MoM     Dec </td <td>12/23/2020</td> <td>United States</td> <td>U. of Mich. Sentiment</td> <td>Dec</td>  | 12/23/2020 | United States | U. of Mich. Sentiment           | Dec    |
| 2/29/2020United StatesConf. Board Consumer ConfidenceDec2/31/2020ChinaComposite PMIDec2/31/2020ChinaManufacturing PMIDec2/31/2020ChinaNon-manufacturing PMIDec2/31/2020United StatesInitial Jobless ClaimsDec3/104/2021United StatesMarkit US Manufacturing PMIDec3/104/2021JapanConsumer Confidence IndexDec3/106/2021FranceConsumer Confidence IndexDec3/106/2021United StatesMarkit US Services PMIDec3/106/2021United StatesMarkit US Composite PMIDec3/106/2021United StatesFOMC Meeting MinutesDec3/106/2021United StatesFOMC Meeting MinutesDec3/107/2021EurozoneConsumer ConfidenceDec3/107/2021EurozoneRetail Sales MoMNov3/107/2021EurozoneEconomic ConfidenceDec3/107/2021EurozoneIndustrial ConfidenceDec3/107/2021EurozoneCPI MoMDec3/107/2021EurozoneCPI Core YoYDec3/107/2021EurozoneCPI Core YoYDec3/107/2021United StatesInitial Jobless ClaimsJan3/108/2021FranceIndustrial Production MoMNov3/108/2021FranceConsumer Spending MoMNov3/108/2021EurozoneUnited StatesChange in Nonfarm PayrollsDec3/108/2   | 12/24/2020 | United States | Initial Jobless Claims          | Dec    |
| 2/31/2020         China         Composite PMI         Dec           2/31/2020         China         Manufacturing PMI         Dec           2/31/2020         China         Non-manufacturing PMI         Dec           2/31/2020         United States         Initial Jobless Claims         Dec           1/104/2021         United States         Markit US Manufacturing PMI         Dec           1/106/2021         Japan         Consumer Confidence Index         Dec           1/106/2021         France         Consumer Confidence         Dec           1/106/2021         United States         Markit US Services PMI         Dec           1/106/2021         United States         Markit US Composite PMI         Dec           1/106/2021         United States         FOMC Meeting Minutes         Dec           1/107/2021         Eurozone         Consumer Confidence         Dec           1/107/2021         Eurozone         Retail Sales MoM         Nov           1/107/2021         Eurozone         Economic Confidence         Dec           1/107/2021         Eurozone         Services Confidence         Dec           1/107/2021         Eurozone         CPI MoM         Dec           1/107/2021         Eurozone   | 12/24/2020 | United States | Cap Goods Orders Nondef Ex Air  | Nov    |
| 2/2/31/2020ChinaManufacturing PMIDec2/31/2020ChinaNon-manufacturing PMIDec2/31/2020United StatesInitial Jobless ClaimsDec2/31/2021United StatesMarkit US Manufacturing PMIDec2/10/6/2021JapanConsumer Confidence IndexDec2/10/6/2021FranceConsumer ConfidenceDec2/10/6/2021United StatesMarkit US Services PMIDec2/10/6/2021United StatesMarkit US Composite PMIDec2/10/6/2021United StatesFOMC Meeting MinutesDec2/10/6/2021United StatesFOMC Meeting MinutesDec2/10/7/2021EurozoneConsumer ConfidenceDec2/10/7/2021EurozoneRetail Sales MoMNov2/10/7/2021EurozoneEconomic ConfidenceDec2/10/7/2021EurozoneIndustrial ConfidenceDec2/10/7/2021EurozoneServices ConfidenceDec2/10/7/2021EurozoneCPI MoMDec2/10/7/2021EurozoneCPI MoMDec2/10/7/2021EurozoneCPI Core YoYDec2/10/7/2021EurozoneCPI Core YoYDec2/10/7/2021FranceIndustrial Production MoMNov2/10/8/2021FranceConsumer Spending MoMNov2/10/8/2021EurozoneUnemployment RateNov2/10/8/2021United StatesChange in Nonfarm PayrollsDec2/10/8/2021United States  | 12/29/2020 | United States | Conf. Board Consumer Confidence | Dec    |
| China Non-manufacturing PMI Dec C2/31/2020 United States Initial Jobless Claims Dec C2/31/2021 United States Markit US Manufacturing PMI Dec C1/06/2021 Japan Consumer Confidence Index Dec C1/06/2021 France Consumer Confidence C1/06/2021 United States Markit US Services PMI Dec C1/06/2021 United States Markit US Composite PMI Dec C1/06/2021 United States Markit US Composite PMI Dec C1/06/2021 United States FOMC Meeting Minutes Dec C1/06/2021 United States FOMC Meeting Minutes Dec C1/07/2021 Eurozone Consumer Confidence Dec C1/07/2021 Eurozone Retail Sales MoM Nov C1/07/2021 Eurozone Economic Confidence Dec C1/07/2021 Eurozone Industrial Confidence Dec C1/07/2021 Eurozone Services Confidence Dec C1/07/2021 Eurozone CPI MoM Dec C1/07/2021 Eurozone CPI MoM Dec C1/07/2021 Eurozone CPI MoM Dec C1/07/2021 Eurozone CPI Core YoY Dec C1/07/2021 Eurozone CPI Core YoY Dec C1/07/2021 Eurozone Industrial Jobless Claims Jan C1/08/2021 France Industrial Production MoM Nov C1/07/2021 Eurozone United States Initial Jobless Claims Jan C1/08/2021 France Undustrial Production MoM Nov C1/08/2021 France Undustrial Production MoM Nov C1/08/2021 Eurozone Unemployment Rate Nov C1/08/2021 United States Unemployment Rate Dec C1/08/2021 United States Unemployment Rate Dec  | 12/31/2020 | China         | Composite PMI                   | Dec    |
| United States   Initial Jobless Claims   Dec   | 12/31/2020 | China         | Manufacturing PMI               | Dec    |
| Markit US Manufacturing PMI Dec 11/06/2021 Japan Consumer Confidence Index Dec 11/06/2021 France Consumer Confidence Index 11/06/2021 United States Markit US Services PMI Dec 11/06/2021 United States Markit US Composite PMI Dec 11/06/2021 United States FOMC Meeting Minutes Dec 11/06/2021 United States FOMC Meeting Minutes Dec 11/06/2021 United States FOMC Meeting Minutes Dec 11/07/2021 Eurozone Consumer Confidence Dec 11/07/2021 Eurozone Retail Sales MoM Nov 11/07/2021 Eurozone Economic Confidence Dec 11/07/2021 Eurozone Industrial Confidence Dec 11/07/2021 Eurozone Services Confidence Dec 11/07/2021 Eurozone CPI MoM Dec 11/07/2021 Eurozone CPI MoM Dec 11/07/2021 Eurozone CPI Core YoY Dec 11/07/2021 Eurozone CPI Core YoY Dec 11/07/2021 Eurozone CPI Core YoY Dec 11/07/2021 United States Initial Jobless Claims Jan 11/08/2021 France Industrial Production MoM Nov 11/08/2021 France Consumer Spending MoM Nov 11/08/2021 Eurozone Unemployment Rate Nov  | 12/31/2020 | China         | Non-manufacturing PMI           | Dec    |
| Japan   Consumer Confidence Index   Dec     Japan   Consumer Confidence   Dec     Japan   Consumer Confidence   Dec     Japan   Consumer Confidence   Dec     Japan   Dec      | 12/31/2020 | United States | Initial Jobless Claims          | Dec    |
| France   Consumer Confidence   Dec     1/06/2021   United States   Markit US Services PMI   Dec     1/06/2021   United States   Markit US Composite PMI   Dec     1/06/2021   United States   FOMC Meeting Minutes   Dec     1/06/2021   United States   FOMC Meeting Minutes   Dec     1/07/2021   Eurozone   Consumer Confidence   Dec     1/07/2021   Eurozone   Retail Sales MoM   Nov     1/07/2021   Eurozone   Economic Confidence   Dec     1/07/2021   Eurozone   Industrial Confidence   Dec     1/07/2021   Eurozone   Services Confidence   Dec     1/07/2021   Eurozone   Services Confidence   Dec     1/07/2021   Eurozone   CPI MoM   Dec     1/07/2021   Eurozone   CPI Core YoY   Dec     1/07/2021   Eurozone   CPI Core YoY   Dec     1/07/2021   Eurozone   Industrial Production MoM   Nov     1/08/2021   France   Industrial Production MoM   Nov     1/08/2021   Eurozone   Unemployment Rate   Nov     1/08/2021   United States   Change in Nonfarm Payrolls   Dec     1/08/2021   United States   Change in Nonfarm Payrolls   Dec     1/08/2021   United States   Unemployment Rate   Dec   | 01/04/2021 | United States | Markit US Manufacturing PMI     | Dec    |
| Markit US Services PMI Dec D1/06/2021 United States Markit US Composite PMI Dec D1/06/2021 United States FOMC Meeting Minutes Dec D1/07/2021 Eurozone Consumer Confidence Dec D1/07/2021 Eurozone Retail Sales MoM Nov D1/07/2021 Eurozone Economic Confidence Dec D1/07/2021 Eurozone Industrial Confidence Dec D1/07/2021 Eurozone Services Confidence Dec D1/07/2021 Eurozone CPI MoM Dec D1/07/2021 Eurozone CPI MoM Dec D1/07/2021 Eurozone CPI Core YoY Dec D1/07/2021 Eurozone CPI Core YoY Dec D1/07/2021 Eurozone CPI Core YoY Nov D1/08/2021 France Industrial Production MoM Nov D1/08/2021 France Consumer Spending MoM Nov D1/08/2021 Eurozone Unemployment Rate Nov D1/08/2021 United States Unemployment Rate Dec   | 01/06/2021 | Japan         | Consumer Confidence Index       | Dec    |
| Markit US Composite PMI Dec DI/06/2021 United States FOMC Meeting Minutes Dec DI/07/2021 Eurozone Consumer Confidence Dec DI/07/2021 Eurozone Retail Sales MoM Nov DI/07/2021 Eurozone Economic Confidence Dec DI/07/2021 Eurozone Industrial Confidence Dec DI/07/2021 Eurozone Industrial Confidence Dec DI/07/2021 Eurozone Services Confidence Dec DI/07/2021 Eurozone CPI MoM Dec DI/07/2021 Eurozone CPI MoM Dec DI/07/2021 Eurozone CPI Core YoY Dec DI/07/2021 Eurozone Industrial Production MoM Nov DI/07/2021 Eurozone United States Initial Jobless Claims Jan DI/08/2021 France Industrial Production MoM Nov DI/08/2021 Eurozone Unemployment Rate Nov DI/08/2021 United States Unemployment Rate Nov DI/08/2021 United States Change in Nonfarm Payrolls Dec DI/08/2021 United States Unemployment Rate Dec   | 01/06/2021 | France        | Consumer Confidence             | Dec    |
| Dec 1/06/2021 United States FOMC Meeting Minutes Dec 1/07/2021 Eurozone Consumer Confidence Dec 1/07/2021 Eurozone Retail Sales MoM Nov 1/07/2021 Eurozone Economic Confidence Dec 1/07/2021 Eurozone Economic Confidence Dec 1/07/2021 Eurozone Industrial Confidence Dec 1/07/2021 Eurozone Services Confidence Dec 1/07/2021 Eurozone CPI MoM Dec 1/07/2021 Eurozone CPI MoM Dec 1/07/2021 Eurozone CPI Core YoY Dec 1/07/2021 Eurozone CPI Core YoY Dec 1/07/2021 United States Initial Jobless Claims Jan 1/08/2021 France Industrial Production MoM Nov 1/08/2021 France Consumer Spending MoM Nov 1/08/2021 Eurozone Unemployment Rate Nov 1/08/2021 United States United States Unemployment Rate Dec 1/08/2021 United States United States Dec 1/08/2021 United States Unemployment Rate Dec 1/08/2021 United States Unempl | 01/06/2021 | United States | Markit US Services PMI          | Dec    |
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| Eurozone Economic Confidence Dec D1/07/2021 Eurozone Industrial Confidence Dec D1/07/2021 Eurozone Services Confidence Dec D1/07/2021 Eurozone CPI MoM Dec D1/07/2021 Eurozone CPI Core YoY Dec D1/07/2021 United States Initial Jobless Claims Jan D1/08/2021 France Industrial Production MoM Nov D1/08/2021 Eurozone Unemployment Rate Nov D1/08/2021 United States United States Dec D1/08/2021 United States Unemployment Rate Dec D1/08/2021 United States Unemployment Rate Dec   | 01/07/2021 | Eurozone      | Consumer Confidence             | Dec    |
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| Eurozone Services Confidence Dec 01/07/2021 Eurozone CPI MoM Dec 01/07/2021 Eurozone CPI Core YoY Dec 01/07/2021 United States Initial Jobless Claims Jan 01/08/2021 France Industrial Production MoM Nov 01/08/2021 Eurozone Unemployment Rate Nov 01/08/2021 United States United States Change in Nonfarm Payrolls Dec 01/08/2021 United States Unemployment Rate Dec   | 01/07/2021 | Eurozone      | Economic Confidence             | Dec    |
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| D1/08/2021 Eurozone Unemployment Rate Nov<br>D1/08/2021 United States Change in Nonfarm Payrolls Dec<br>D1/08/2021 United States Unemployment Rate Dec   | 01/08/2021 | France        | Industrial Production MoM       | Nov    |
| D1/08/2021 United States Change in Nonfarm Payrolls Dec United States Unemployment Rate Dec  | 01/08/2021 | France        | Consumer Spending MoM           | Nov    |
| 01/08/2021 United States Unemployment Rate Dec   | 01/08/2021 | Eurozone      | Unemployment Rate               | Nov    |
| · ·  | 01/08/2021 | United States | Change in Nonfarm Payrolls      | Dec    |
| 1/08/2021 United States Labor Force Participation Rate Dec   | 01/08/2021 | United States | Unemployment Rate               | Dec    |
|  | 01/08/2021 | United States | Labor Force Participation Rate  | Dec    |

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13

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