

2

## EDITORIAL

"Call options as lottery tickets: does it matter?"

3-4

## MARKETS OVERVIEW

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

5-9

## ECONOMIC PULSE

Analysis of the recent economic data of a country and of the gap versus the consensus

10

## ECONOMIC SCENARIO

Main economic and financial forecasts.

11-12

## CALENDARS

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

13

## FURTHER READING

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

ECONOMIC RESEARCH



**BNP PARIBAS**

The bank  
for a changing  
world

## CALL OPTIONS AS LOTTERY TICKETS: DOES IT MATTER?

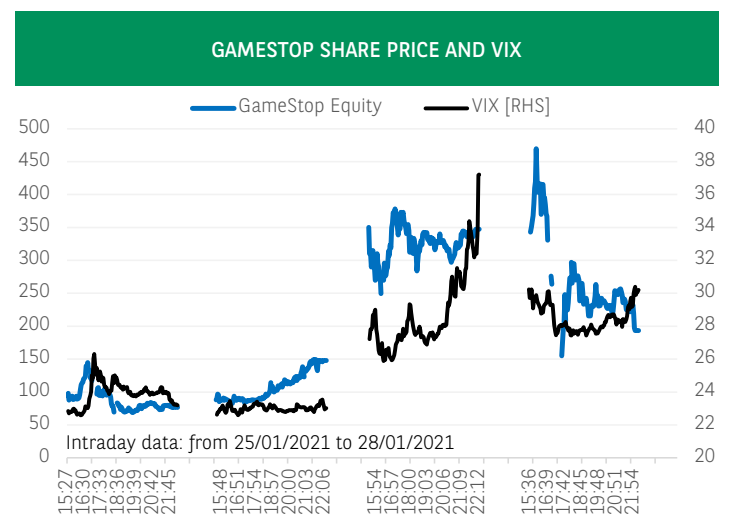
Academic research shows that certain investors look at single stock call options as lottery tickets. They are aware they can lose money but nurture the hope of very big gains. To some extent, the share price behaviour in recent days of certain US small cap stocks illustrates this thinking. The combination of herd-type momentum buying and a short squeeze has caused huge share price swings. Should this become a recurrent phenomenon, it might reduce the informational efficiency of equity prices, increase the required equity risk premium and influence the cost of capital of companies.

When buying lottery tickets, one should expect to lose money on average. Still, lotteries are popular because people are repeatedly willing to give up some money, hoping for a – very unlikely – outsized gain. In statistical terms, it means they expect a positive skewness in the distribution of possible outcomes. In Finance, similar behaviour has been noticed already many years ago giving rise to an abundant literature on ‘stocks as lotteries’ – in particular for stocks with a very low price, the so-called penny stocks – and ‘single stock call options as lottery tickets’. Investors are very much aware they can lose some money – when a call option expires out-of-the-money – but they nurture the hope of a very big gain<sup>1</sup>. To some extent, the share price behaviour in recent days of companies like GameStop provides a concrete illustration of such thinking. It has given rise to extensive media coverage but has also had ripple effects on the rest of the market, witness the rise in the VIX index<sup>2</sup>.

Can the recent events end up having broader repercussions? To a large degree, the answer depends on the breadth – how many stocks are concerned – and the intensity of the feedback loops. Consider a company with a small market capitalization and a low share price. Investors expecting the share price to go down have built considerable short positions. In addition, call options have been issued on the underlying stock. Suppose that some investors start to buy call options. This may trigger more purchases from others – herding behaviour – who have spotted the positive momentum or read about it on social media. The issuer of the call option needs to hedge his position and hence buys the underlying stock. If the share price increases enough, stop-losses may be triggered for those with short positions, further pushing up the price of the stock. If this happens simultaneously for several stocks, hedge funds that had shorted these stocks may decide to reduce their leverage<sup>3</sup>, causing a share price decline of companies where they had long positions. In such a scenario, equity market volatility would increase, which in turn could influence other asset

classes such as government bonds. The price of the latter typically rises when equity volatility spikes. It could also lead to a breakdown in the correlation between large cap equity indices and small cap indices. If this is a one-off event, it should a priori not have any lasting consequences. If it becomes a recurrent phenomenon, certain effects could last. It might lead to a reluctance to short certain stocks, which would reduce the informational efficiency of equity prices<sup>4</sup>. Stock pickers would need to take it into account as well. It could influence the decision of asset allocators whether to invest in small or large companies, in equities versus bonds. It could increase the required risk premium and influence the cost of capital of companies.

William De Vijlder



SOURCE: BLOOMBERG, BNP PARIBAS

1. Such investors consider the distribution of possible outcomes to be positively skewed: “there is some probability to gain huge profits that can cover all the frequent small losses” (Source: <https://corporatefinanceinstitute.com>).

2. The VIX index “represents the market’s expectation of 30-day forward looking volatility”. It is derived from the prices of the S&P500 index options. Source: Investopedia.

3. On 28 January, Bloomberg TV reported hedge funds had been deleveraging at the fastest pace in 14 years.

4. According to Boehmer and Wu, “stock prices are more accurate when short sellers are more active”. Source: Ekkehart Boehmer and Juan Wu, Short selling and the price discovery process, *The Review of Financial Studies*, 2013.

In recent days, the combination of herd-type momentum buying and a short squeeze has caused huge price swings in certain US small cap stocks. Should this become a recurrent phenomenon, it might increase the required equity risk premium.



# MARKETS OVERVIEW

## OVERVIEW

Week 22-1-21 to 28-1-21

				Interest Rates	
▼ CAC 40	5 560	▶ 5 511	-0.9 %	ECB	0.00
▼ S&P 500	3 841	▶ 3 787	-1.4 %	Eonia	-0.48
↗ Volatility (VIX)	21.9	▶ 30.2	+8.3 pb	Euribor 3M	-0.54
▼ Euribor 3M (%)	-0.54	▶ -0.54	-0.4 bp	Euribor 12M	-0.51
▼ Libor \$ 3M (%)	0.22	▶ 0.21	-0.4 bp	FED	0.25
▼ OAT 10y (%)	-0.33	▶ -0.37	-4.0 bp	Libor 3M	0.21
▼ Bund 10y (%)	-0.54	▶ -0.57	-3.0 bp	Libor 12M	0.31
▼ US Tr. 10y (%)	1.09	▶ 1.06	-3.6 bp	BoE	0.10
▼ Euro vs dollar	1.22	▶ 1.21	-0.4 %	Libor 3M	0.04
↗ Gold (ounce, \$)	1 854	▶ 1 856	+0.1 %	Libor 12M	0.09
▼ Oil (Brent, \$)	55.6	▶ 55.6	+0.0 %		

## MONEY & BOND MARKETS

highest 21	lowest 21	Yield (%)	highest 21	lowest 21
0.00 at 01/01	0.00 at 01/01	€ AVG 5-7y -0.43	-0.38 at 22/01	-0.46 at 04/01
-0.47 at 26/01	-0.50 at 01/01	Bund 2y -0.73	-0.67 at 12/01	-0.75 at 01/01
-0.54 at 26/01	-0.56 at 06/01	Bund 10y -0.57	-0.50 at 12/01	-0.60 at 04/01
-0.49 at 25/01	-0.51 at 28/01	OAT 10y -0.37	-0.31 at 12/01	-0.41 at 04/01
		Corp. BBB 0.56	0.56 at 28/01	0.50 at 08/01
0.25 at 01/01	0.25 at 01/01	\$ Treas. 2y 0.13	0.15 at 06/01	0.12 at 04/01
0.24 at 13/01	0.21 at 27/01	Treas. 10y 1.06	1.14 at 12/01	0.91 at 01/01
0.34 at 01/01	0.31 at 26/01	High Yield 4.75	4.86 at 12/01	4.71 at 21/01
0.10 at 01/01	0.10 at 01/01	£ gilt. 2y -0.05	-0.01 at 12/01	-0.08 at 04/01
0.04 at 27/01	0.03 at 01/01	gilt. 10y 0.31	0.38 at 12/01	0.21 at 04/01
0.09 at 13/01	0.07 at 11/01			

## EXCHANGE RATES

1€ =	highest 21	lowest 21	2021
USD	1.21	1.23 at 06/01	1.21 at 18/01 -0.9%
GBP	0.88	0.91 at 06/01	0.88 at 27/01 -1.3%
CHF	1.08	1.09 at 07/01	1.08 at 18/01 -0.4%
JPY	126.45	127.42 at 07/01	125.22 at 18/01 +0.1%
AUD	1.58	1.60 at 04/01	1.56 at 14/01 -0.3%
CNY	7.85	8.00 at 01/01	7.82 at 27/01 -1.9%
BRL	6.59	6.69 at 11/01	6.33 at 18/01 +3.7%
RUB	92.20	92.20 at 28/01	88.87 at 20/01 +1.9%
INR	88.55	89.88 at 07/01	88.17 at 27/01 -1.0%

At 28-1-21 Change

## COMMODITIES

Spot price, \$	highest 21	lowest 21	2021	2021(€)
Oil, Brent	55.6	56.7 at 12/01	51.2 at 04/01	+7.1% +8.1%
Gold (ounce)	1 856	1 947 at 05/01	1 825 at 15/01	-2.2% -1.3%
Metals, LME	3 468	3 580 at 07/01	3 415 at 01/01	+1.6% +2.5%
Copper (ton)	7 880	8 167 at 07/01	7 749 at 01/01	+1.7% +2.6%
wheat (ton)	251	2.6 at 15/01	2.47 at 22/01	+1.6% +2.6%
Corn (ton)	206	2.1 at 14/01	1.88 at 04/01	+0.9% +10.0%

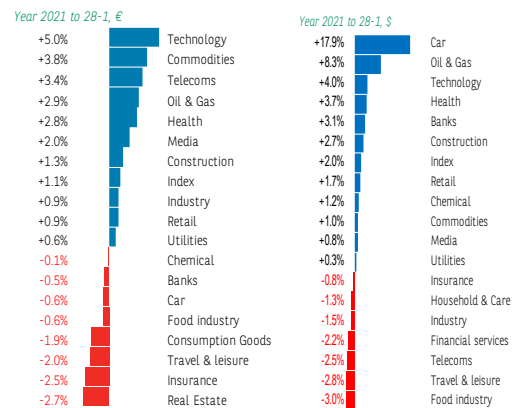
At 28-1-21 Change

## EQUITY INDICES

	Index	highest 21	lowest 21	2021
<b>World</b>				
MSCI World	2 711	2 766 at 21/01	2 670 at 04/01	+0.8%
<b>North America</b>				
S&P500	3 787	3 855 at 25/01	3 701 at 04/01	+0.8%
<b>Europe</b>				
EuroStoxx50	3 557	3 645 at 08/01	3 536 at 27/01	+0.1%
CAC 40	5 511	5 707 at 08/01	5 460 at 27/01	-0.1%
DAX 30	13 666	14 050 at 08/01	13 620 at 27/01	-0.4%
IBEX 35	7 933	8 408 at 08/01	7 853 at 27/01	-0.2%
FTSE100	6 526	6 873 at 08/01	6 461 at 01/01	+0.1%
<b>Asia</b>				
MSCI, loc.	1 065	1 086 at 25/01	1 044 at 06/01	+0.2%
Nikkei	28 197	28 822 at 25/01	27 056 at 06/01	+2.7%
<b>Emerging</b>				
MSCI Emerging (\$)	1 351	1 410 at 25/01	1 292 at 01/01	+0.5%
China	118	125 at 25/01	108 at 01/01	+8.4%
India	671	708 at 14/01	671 at 28/01	-0.6%
Brazil	1 794	1 941 at 14/01	1 760 at 27/01	+0.0%
Russia	660	722 at 14/01	660 at 28/01	+1.1%

At 28-1-21 Change

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

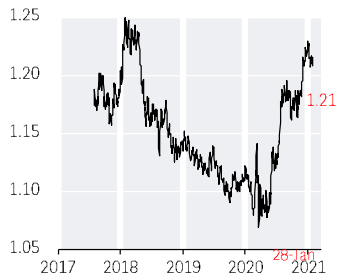


SOURCE: THOMSON REUTERS,

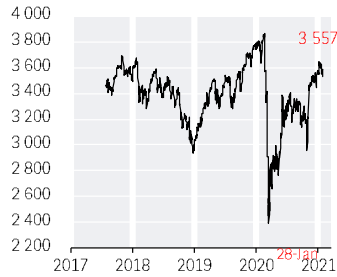


# MARKETS OVERVIEW

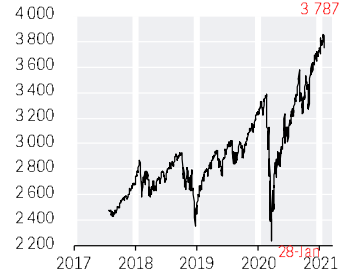
**EURO-DOLLAR**



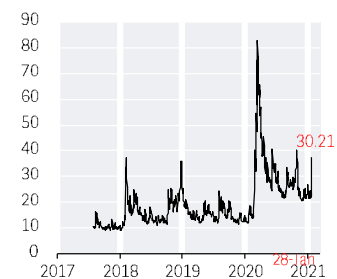
**EUROSTOXX50**



**S&P500**



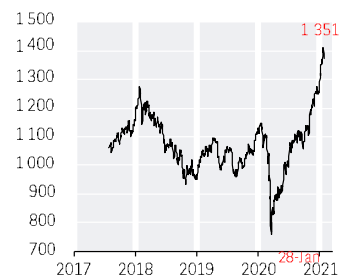
**VOLATILITY (VIX, S&P500)**



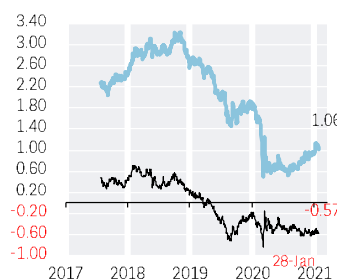
**MSCI WORLD (USD)**



**MSCI EMERGING (USD)**

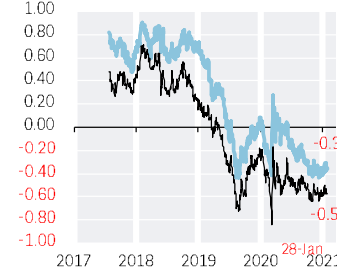


**10Y BOND YIELD, TREASURIES VS BUND**



—Bunds —US Treasuries

**10Y BOND YIELD**



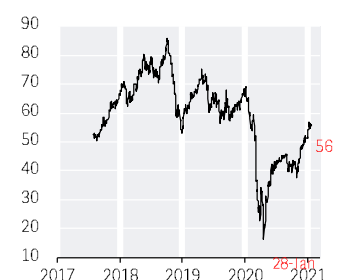
—Bunds —OAT

**10Y BOND YIELD & SPREADS**

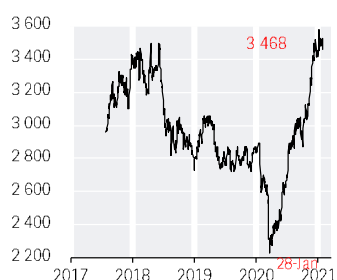
Week 22-1-21 to 28-1-21

1.01%	Greece	159 bp
0.60%	Italy	119 bp
0.08%	Spain	66 bp
0.03%	Portugal	61 bp
-0.36%	Belgium	23 bp
-0.37%	France	22 bp
-0.44%	Finland	14 bp
-0.47%	Austria	12 bp
-0.53%	Netherlands	5 bp
-0.57%	Germany	1 bp
-0.59%	Ireland	

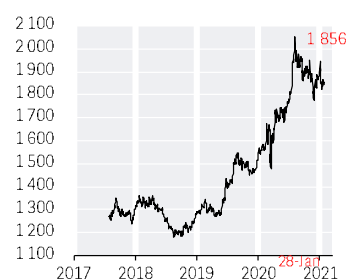
**OIL (BRENT, USD)**



**METALS (LMEX, USD)**



**GOLD (OUNCE, USD)**



SOURCE: THOMSON REUTERS,



# ECONOMIC PULSE

## GERMANY: DIVERGING FORTUNES FOR SERVICES AND INDUSTRY

The Pulse for Germany highlights the dichotomy that characterises the economy at the moment. As can be seen on the left-hand side of the chart, the lockdown announced in early November and drastically tightened in mid-December is heavily weighing on the household sector and services. The GfK consumer confidence index and the IFO indices for trade and services worsened in the three months to January (blue area) compared to the preceding three-month period (dotted line). GfK noted that the propensity to consume has been in free fall since the closure of non-essential shops in mid-December, as there is not much to buy. In the chart, retail sales still expanded, but that is because the latest published data are from November.

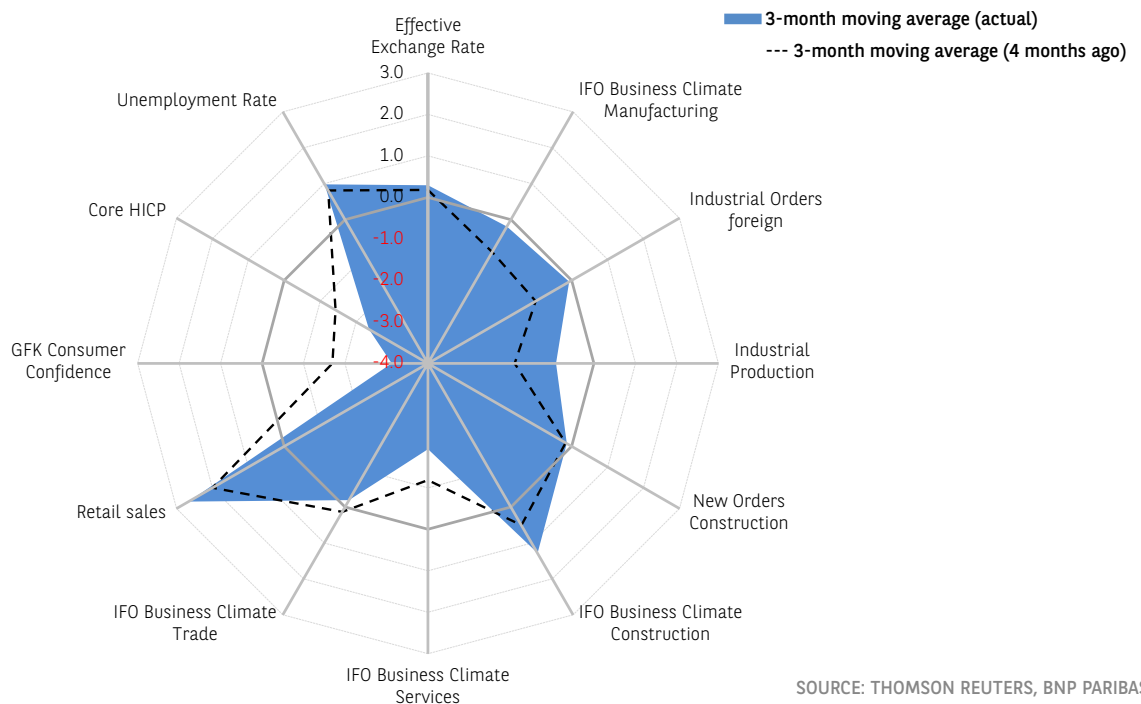
The picture is different on the right-hand side of the chart, showing a spreading out of the blue area that covers manufacturing and construction. Manufacturing is supported by strong overseas demand, in particular from China. The IFO business climate index for the sector weakened in January, but the firms reporting expanding activity still outweigh those that experience a decline by a considerable margin. In November, industrial output was back at pre-pandemic levels, whereas orders even reached a highest since November 2018. In the construction sector, the prospects are mixed. Activity remains at

relatively high levels for residential and public construction, but is declining for industrial construction, due to the fall in demand for office space.

The coming three months are likely to be crucial. Much depends on the course of the pandemic. Thanks to the tightening of the lockdown, the infection rate has come down. Moreover, the ongoing vaccination campaign should contribute to bringing the pandemic under control. However, the authorities are worried about prematurely lifting the lockdown restrictions (which were recently extended to 14 February), as that could be counterproductive. Once these restrictions are lifted, activity in services could pick up rapidly. In addition, the prospects for the manufacturing sector have brightened. According to a recent IFO survey, export expectations in manufacturing have reached their highest level since October, as the lifting of some uncertainties such as Brexit, the US presidency, and the start of the vaccination campaigns worldwide has led to cautious optimism.

**Raymond Van Der Putten**

### QUARTERLY CHANGES



The indicators in the radar are all transformed into 'z-scores' (deviations from the long-term average, as standard deviations). These z-scores have mean zero and their values are between -4 and +3. 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 compared to the dotted area signals an increase in the variable.



# ECONOMIC PULSE

## FRANCE: SOME PLEASANT SURPRISES IN Q4 2020

2020 closed with a quarter-on-quarter (q/q) fall in GDP of 1.3%, according to the first estimate of the Q4 national accounts published on Friday 29 January. This was a much smaller fall than expected (we had estimated -4% q/q, in line with INSEE and Banque de France estimates). The full year contraction in GDP was 8.3%. This good surprise came mainly from business and households' investment and exports, which rose instead of falling as expected. Household consumption took the biggest hit from the lockdown in November-December (-5.4% q/q). But this negative figure was partly offset by the 23% m/m rebound in consumption of goods in December. This wiped out the drop in November (-18% m/m) and brought consumption of goods above its pre-crisis level (up 3.7% relative to December 2019).

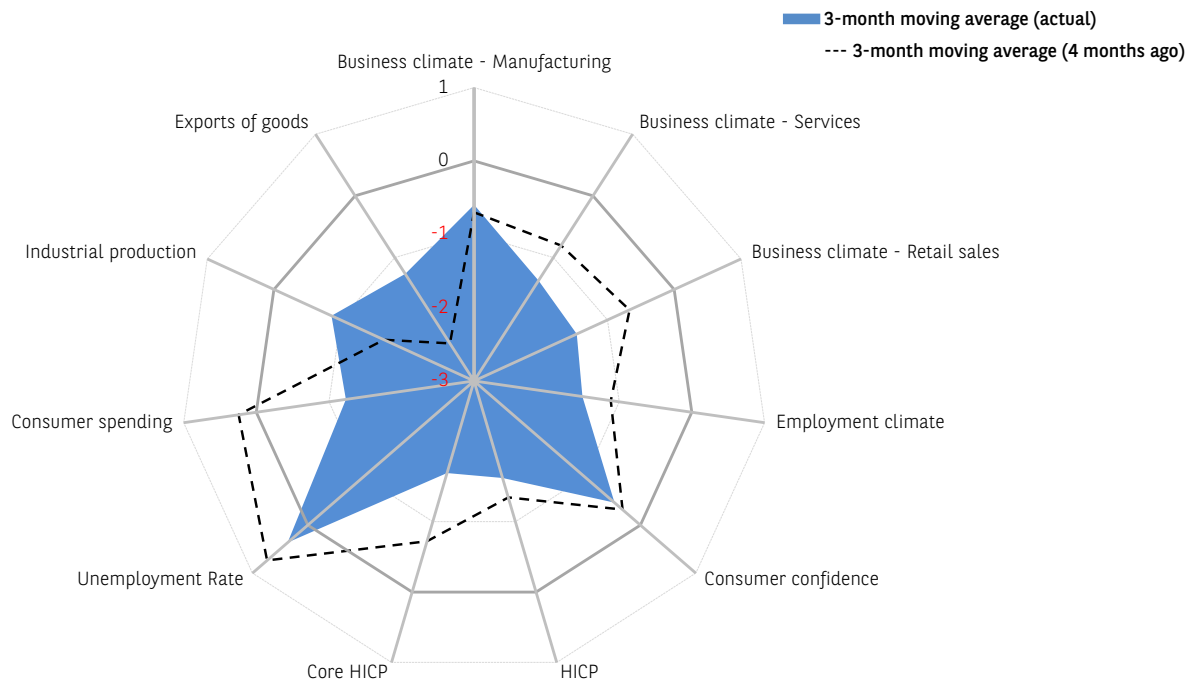
The number of jobseekers in Category A also bore the traces of the turbulence in economic activity during the phases of lockdown and relaxation, albeit in a less severe manner than in the spring. This figure was stable in December, having increased by nearly 1% m/m in November and fallen by nearly 2% m/m in October. Over the quarter as a whole, there was a fall (-3% q/q). This was a smaller decline than in Q3 (-11% q/q) and was remarkable given the simultaneous fall in GDP. On average over the year, the number of category A jobseekers

increased by 8.8%, another remarkable figure in that it was so much lower than the increase seen in 2009 (22%) despite a GDP contraction (-2.8%) that was significantly smaller than in 2020. These figures reflect the effectiveness of the significant ramp-up of the job-retention scheme.

2021 is getting off to a mixed start, as reflected in our barometer (blue area in partial contraction relative to the dotted area). INSEE's composite business climate index improved slightly in January, gaining 1 point to 92, whilst Markit's Composite PMI saw a marked 3-point drop, to 47. Consumer confidence also fell 3 points, to 92. The details of the business climate survey data highlight a feature of the current crisis: the reversal of "sheltered" and "exposed" sectors. Services (in the broad sense, including retail trade) have generally fallen into the first category and industry into the second; this has now reversed, with industry coping better with the crisis than services.

**Hélène Baudchon**

### QUARTERLY CHANGES



SOURCE: THOMSON REUTERS, BNP PARIBAS

The indicators in the radar are all transformed into 'z-scores' (deviations from the long-term average, as standard deviations). These z-scores have mean zero and their values are between -3 and +1. 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 compared to the dotted area signals an increase in the variable.



# ECONOMIC PULSE

## ITALY: POLITICAL RISK ARISES AGAIN

Italy is one of the rare European countries whose propagation of the epidemic is still under control at the end of January, although the situation is still very delicate. On top of these health uncertainties, political risk is also on the rise again. Following the departure of Matteo Renzi – and several members of the Italia Viva party – from the coalition Government, Prime Minister Giuseppe Conte resigned with the hopes of securing a more solid majority. At the time of writing these lines, negotiations were still ongoing. Political instability could affect the elaboration of the economic stimulus plan that Rome must submit to Brussels in the coming weeks.

According to our barometer, economic activity continues to be driven primarily by industry, while activity in the services sector remains extremely depressed. Through the end of last year, Italian industry benefited greatly from the rebound in demand in Europe. In November, goods exports had nearly climbed back to their level reached at the end of 2019, driven mainly by demand within the European Union. On a three-month average basis, the trade balance hit a record surplus in

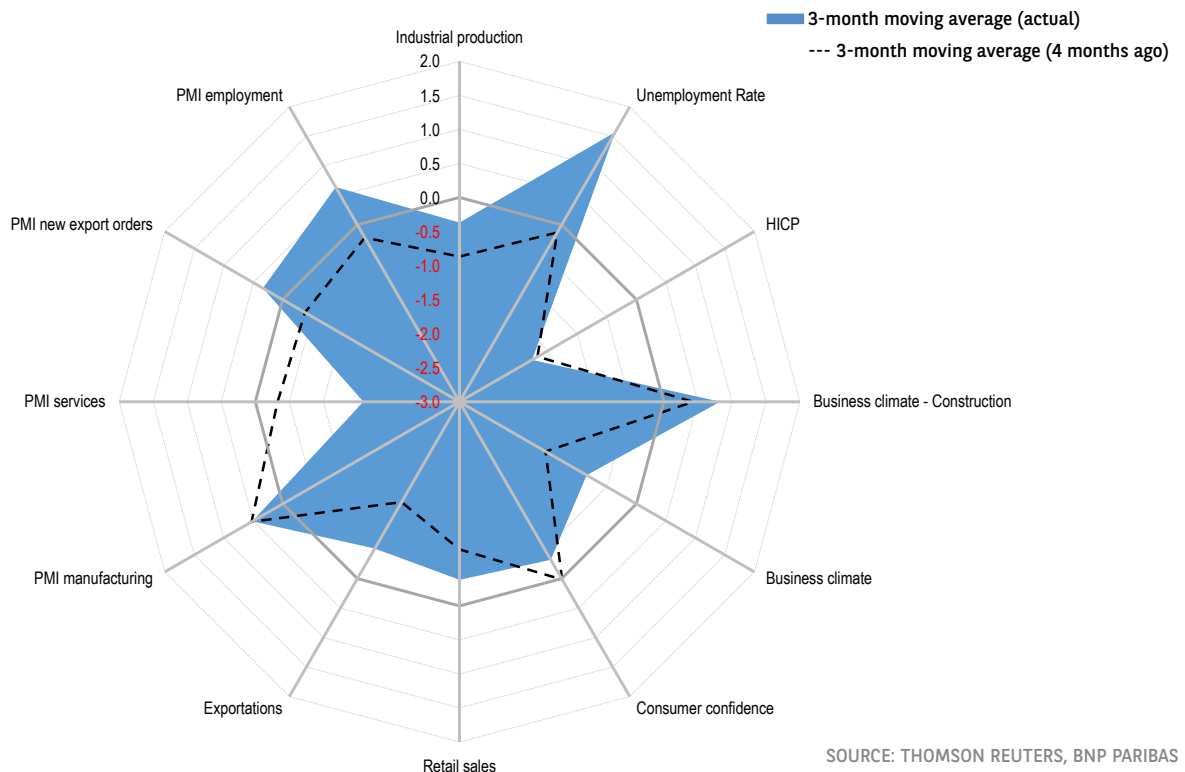
last November. The rebound in external demand could also be seen in industrial orders, which have also rebounded significantly during the autumn. The resurgence of the pandemic in Europe this winter is likely to halt or at least sharply slow this positive trend in exports.

The IMF's latest growth forecast for 2021 is also somewhat pessimistic. The Washington-based institution significantly lowered its estimate for real GDP growth to 3.0% in 2021, compared with an initial forecast of 5.2%. Growth is expected to accelerate slightly thereafter, to 3.6% in 2022. If these figures are confirmed, that would mean that the recovery in activity would be only partial at the start of 2023.

On the labour market front, the latest Istat figures show a sharp decline in the unemployment rate in November (down 6 percentage points to 8.9%). Yet this decline is largely due to another drop-off in the active population, which remains still far below its pre-Covid level.

**Guillaume Derrien**

### QUARTERLY CHANGES



The indicators in the radar are all transformed into 'z-scores' (deviations from the long-term average, as standard deviations). These z-scores have mean zero and their values are between -4 and +2. 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 compared to the dotted area signals an increase in the variable.



# ECONOMIC PULSE

## SPAIN: THE EPIDEMIC IS WORSENING BUT CONFIDENCE SHOWS RESILIENCE IN JANUARY

Spain's health situation is still alarming. The pandemic continues to spread, forcing the public authorities to tighten restrictive measures, notably in the Madrid and Valencia regions. Yet the most recent confidence indicators have shown a certain resilience in January, notably the European Commission economic sentiment index. It gained 2.4 points to 93.9, the best reading since April 2020 and the introduction of the first lockdown measures. Confidence is rising in the industrial sector, and the gap with the services sector continues to widen.

GDP figures for Q4 confirmed that the Spanish economy has experienced the worst year of recession in recent history. Real GDP fell by 11.0% in 2020. Nevertheless, activity grew slightly in Q4 on a quarterly basis (+ 0.4%). This indicates that the restrictions put in place to stem the second wave of the epidemic were less severe for the economy than last spring.

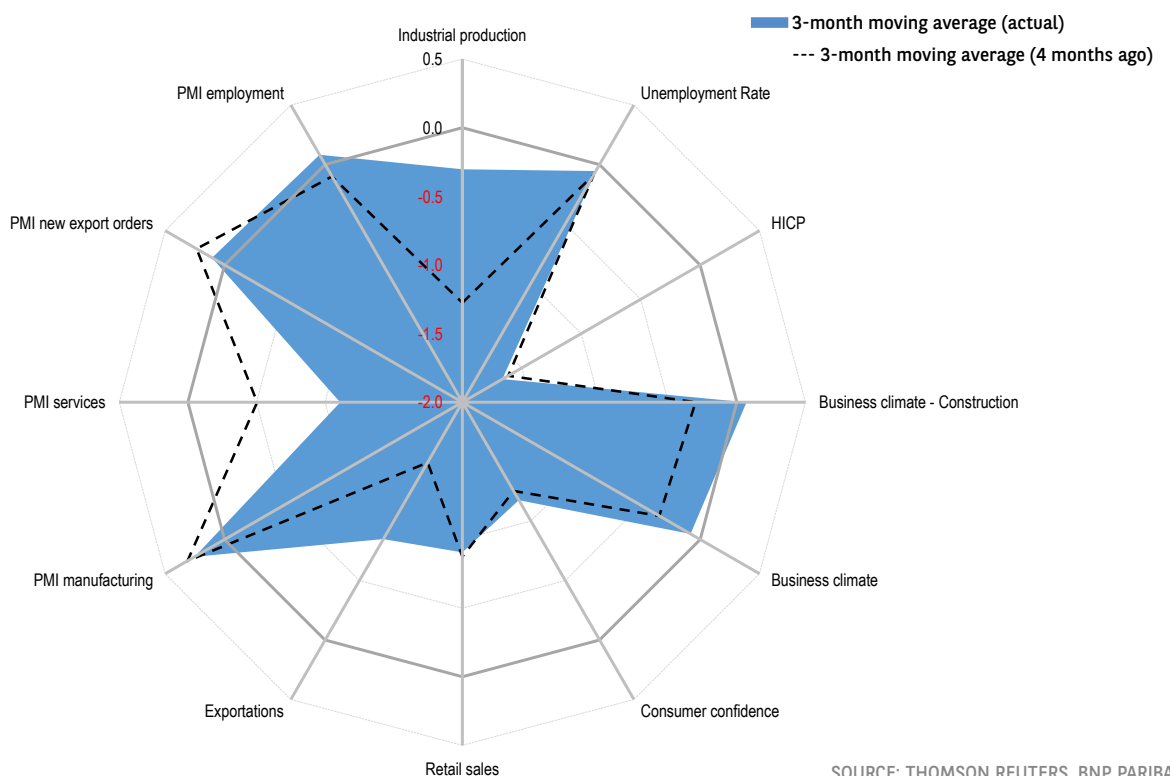
The labour market has shown some resilience, thanks to government support measures, especially the ERTE furlough scheme. According to INE – the Spanish statistical office – the unemployment rate rose to

15.5% in 2020. Employment declined by 2.9%, but the drop-off in the active population limited the increase in the unemployment rate. More than 4 out of 5 job destructions in 2020 were in the services sector.

One of the most apparent trends on our barometer is the consumer price index (CPI), which has been impacted significantly by the economic shock, especially in the services sector. In December, core CPI (excluding perishable goods and energy) reported the smallest annual increase in the past six years (+0.13%). Services CPI (excluding rent) slipped back into deflation territory, with annual declines visible in communications, transport and education. However, the CPI rebounded strongly in January, according to preliminary estimates from INE.

**Guillaume Derrien**

### QUARTERLY CHANGES



The indicators in the radar are all transformed into 'z-scores' (deviations from the long-term average, as standard deviations). These z-scores have mean zero and their values are between -2 and +0.5. 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 compared to the dotted area signals an increase in the variable.





# ECONOMIC PULSE

## DECLINING MOBILITY AND GLOBAL ACCELERATION OF VACCINATION CAMPAIGNS

The biggest world-wide vaccination campaign in history began in 2020 Q4. According to the latest figures, released by Our World in Data on 27 January, more than 80 million doses have been given in 66 countries. The United States leads by some distance, with 22.98 million doses given, followed by China and the European Union, with 21.17 million and 10.15 million doses respectively. On a per capita basis, Israel leads the field, with 49.1 doses given for every 100 people, a total of 4.3 million doses. The UAE takes second place with 28 doses per 100 people. The United Kingdom, the first country in the world to have authorised the vaccine produced by Pfizer/Biotech (on 2 December) is making progress with 11.3 doses per 100 people. The approval came at the right moment, as the country is facing a very virulent variant. The US, the country hit hardest by the pandemic, has achieved 7.1% coverage of its population. Denmark heads the EU table with 3.7%, followed by Ireland and Spain, both at 2.9%. Germany, the EU's most populous country ahead of France, has achieved 2.4% coverage, whilst France, which passed the 1% milestone on 19 January, is now at 1.7% (Figure 1). The acceleration of the vaccine campaign brings the end of the health crisis closer. This will have a positive effect on mobility around the world.

According to the Google Mobility Report of 26 January, visits to retail and recreation facilities have continued to fall in most countries, as a result of the tightening of health measures. In the US and Japan, visits have continued to fall since the beginning of the year, and stand at around 75% of their pre-crisis level (Figure 2). In France, visits recovered from 45% below the baseline\* to 42% down, after substantial falls. In the United Kingdom, visits fell sharply following the application of new lockdown measures, with the 7-day moving average down nearly 64% relative to the baseline. In Germany, footfall was stable at a very low level.

Tarik Rharrab

COVID-19 VACCINE DOSES ADMINISTRED PER 100 PEOPLE<sup>1</sup>

Country	Doses per 100 people	Last update
Israel	49.1	Jan 27
UAE	28.0	Jan 27
UK	11.3	Jan 26
US	7.1	Jan 26
Denmark	3.7	Jan 26
Ireland	2.9	Jan 24
Spain	2.9	Jan 27
Portugal	2.7	Jan 27
Italy	2.6	Jan 27
Poland	2.4	Jan 26
Germany	2.4	Jan 26
Canada	2.4	Jan 27
Finland	2.3	Jan 27
Switzerland	2.3	Jan 24
Greece	2.1	Jan 27
Belgium	2.0	Jan 26
Sweden	1.9	Jan 24
Turkey	1.8	Jan 27
Austria	1.8	Jan 27
France	1.7	Jan 26
China	1.6	Jan 27
Norway	1.6	Jan 26
Netherlands	1.1	Jan 27

<sup>1</sup> excluding countries with population of less than 500 00 and doses administred ratio

CHART 1

SOURCE: OUR WORLD IN DATA, BNP PARIBAS

RETAIL AND RECREATION MOBILITY

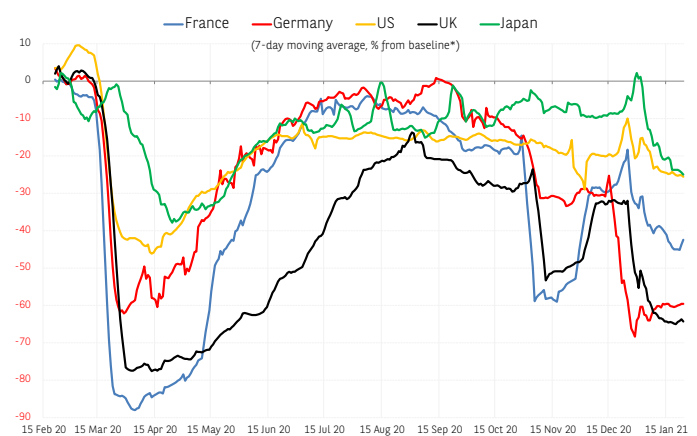


CHART 2

SOURCE: GOOGLE (26 JANUARY 2021), 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 SCENARIO

10

## 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, have started to be tightened since Q4, as the authorities aim to contain risks in the financial system.

## EUROZONE

After a solid rebound in Q3 2020 (+12.6%), even exceeding expectations, Eurozone GDP should slow sharply in Q4 2020. Given the resurgence of the pandemic and the implementation of new sanitary restrictions in most of the member states, the recovery is losing momentum. The activity loss caused by the Covid-19 crisis is unlikely to be fully erased before year-end 2021. Despite the hopes raised by the vaccines, 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 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.

## RATES AND EXCHANGE RATES

In the US, policy should remain on hold for quite some time, considering that the FOMC wants inflation to move beyond 2% to make up for past below target inflation. To this end, it has decided at its December meeting that the current pace of asset purchases will be maintained 'until substantial further progress has been made' toward reaching its goals in terms of maximum employment and inflation. Should the economic situation worsen, more measures are to be expected. 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 has eased policy further. In particular, it has decided to increase the envelope of the pandemic emergency purchase programme (PEPP) and to extend its horizon for net purchases to at least the end of March 2022. These measures aim to support the economy so as to create a pick-up in inflation, which has dropped to a very low level. This very accommodative stance –which will be maintained for a long time– should keep a lid on sovereign bond spreads, although at some point, speculation that the PEPP's end date might not be prolonged any further should cause some spread widening. 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 further 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. The 'risk-on' environment is also supportive for the euro. Similar arguments apply for the dollar versus the yen.

### GROWTH & INFLATION

%	GDP Growth				Inflation			
	2019	2020 e	2021 e	2022 e	2019	2020 e	2021 e	2022 e
United-States*	2.2	-3.6	4.2	4.1	1.8	1.3	1.9	1.9
Japan*	0.3	-5.3	1.1	3.0	0.5	0.0	-0.4	-0.3
United-Kingdom*	1.5	-11.1	4.0	8.6	1.8	0.9	1.5	2.1
Euro Area*	1.3	-7.3	3.8	5.5	1.2	0.2	0.8	1.3
Germany*	0.6	-5.6	2.7	5.1	1.4	0.4	1.3	1.2
France*	1.5	-9.0	5.5	4.7	1.3	0.5	0.6	1.2
Italy*	0.3	-9.0	4.5	4.4	0.6	-0.2	0.5	1.3
Spain*	2.0	-11.6	5.4	5.9	0.8	-0.4	0.4	0.9
China*	6.1	2.3	9.5	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 NOVEMBER 2020, \*GROWTH UPDATED ON 7 JANUARY 2021

### INTEREST & EXCHANGE RATES

Interest rates, %		2021					
End of period		Q1e	Q2e	Q3e	Q4e	2021e	2022e
US	Fed Funds (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
UK	BONO 10y	0.35	0.20	0.40	0.60	0.60	1.00
	Base rate	0.10	0.10	0.10	0.10	0.10	0.10
Japan	Gilts 10y	0.40	0.40	0.50	0.60	0.60	0.75
	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
Exchange 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)



BNP PARIBAS

The bank  
for a changing  
world

## CALENDAR

11

## LATEST INDICATORS

In Germany, the IFO business climate saw a broad-based weakening in January and both the current assessment and expectations declined. French consumer confidence declined more than expected. For the eurozone as a whole, consumer confidence was stable whereas economic confidence - which combines business and household sentiment - surprised positively although it recorded a decline versus the upwardly revised number for December. In the US, Conference Board consumer confidence picked up and initial unemployment claims also brought good news, declining more than expected. The level remains high however. Personal income increased more than expected and spending declined less than anticipated. University of Michigan sentiment declined slightly although expectations improved somewhat. US 4th quarter GDP growth came in slightly below expectations. In France, the release of the 4th quarter GDP brought a positive surprise with GDP shrinking far less than expected. In Germany GDP was basically unchanged, growing 0.1%. Source: Bloomberg.

DATE	COUNTRY	INDICATOR	PERIOD	CONSENSUS	ACTUAL	PREVIOUS
01/25/2021	Germany	IFO Business Climate	Jan	91.4	90.1	92.2
01/25/2021	Germany	IFO Expectations	Jan	93.6	91.1	93.0
01/25/2021	Germany	IFO Current Assessment	Jan	90.6	89.2	91.3
01/25/2021	United States	Chicago Fed Nat Activity Index	Dec	0.1	0.5	0.3
01/25/2021	United States	Dallas Fed Manf. Activity	Jan	12.0	7.0	9.7
01/26/2021	United Kingdom	Employment Change 3M/3M	Nov	-104k	-88k	-144k
01/26/2021	United States	Conf. Board Consumer Confidence	Jan	89.0	89.3	87.1
01/26/2021	United States	Richmond Fed Manufact. Index	Jan	19.0	14.0	19.0
01/27/2021	Japan	Leading Index CI	Nov	--	96.4	96.6
01/27/2021	Germany	GfK Consumer Confidence	Feb	-7.9	-15.6	-7.5
01/27/2021	France	Consumer Confidence	Jan	94.0	92.0	95.0
01/27/2021	France	Total Jobseekers	4Q	--	3574.3k	3673.4k
01/27/2021	United States	Cap Goods Orders Nondef Ex Air	Dec	0.5%	0.6%	1.0%
01/27/2021	United States	FOMC Rate Decision (Upper Bound)	Jan	0.3%	0.3%	0.3%
01/27/21-02/02/21	Germany	Retail Sales MoM	Dec	-2.2%	--	1.1%
01/28/2021	Japan	Retail Sales MoM	Dec	-0.7%	-0.8%	-2.1%
01/28/2021	Eurozone	Consumer Confidence	Jan	--	-15.5	-15.5
01/28/2021	Eurozone	Economic Confidence	Jan	89.6	91.5	92.4
01/28/2021	Eurozone	Industrial Confidence	Jan	-7.0	-5.9	-6.8
01/28/2021	Eurozone	Services Confidence	Jan	-18.5	-17.8	-17.1
01/28/2021	United States	GDP Annualized QoQ	4Q	4.2%	4.0%	33.4%
01/28/2021	United States	Initial Jobless Claims	Jan	875k	847k	914k
01/28/2021	United States	New Home Sales MoM	Dec	3.5%	1.6%	-12.6%
01/28/2021	United States	Kansas City Fed Manf. Activity	Jan	13.0	17.0	14.0
01/29/2021	Japan	Tokyo CPI Ex-Fresh Food. Energy YoY	Jan	0.0%	0.2%	-0.4%
01/29/2021	Japan	Industrial Production MoM	Dec	-1.5%	-1.6%	-0.5%
01/29/2021	Japan	Consumer Confidence Index	Jan	29.0	29.6	31.8
01/29/2021	France	GDP QoQ	4Q	-4.0%	-1.3%	18.5%
01/29/2021	Germany	GDP SA QoQ	4Q	0.0%	0.1%	8.5%
01/29/2021	United States	Personal Income	Dec	0.1%	0.6%	-1.1%
01/29/2021	United States	Personal Spending	Dec	-0.4%	-0.2%	-0.4%
01/29/2021	United States	U. of Mich. Sentiment	Jan	79.3	79.0	79.2
01/29/2021	United States	U. of Mich. Current Conditions	Jan	87.7	86.7	87.7
01/29/2021	United States	U. of Mich. Expectations	Jan	74.1	74.0	73.8



## CALENDAR: THE WEEK AHEAD

12

## COMING INDICATORS

A light week ahead of us in terms of the number of data releases but certain publications will be particularly important: 4th quarter GDP growth for the euro area and the labour market report in the US. In addition, we also have euro area unemployment, inflation and retail sales and, in France, the survey of industrial investment and private sector payrolls in Q4 2020. The ECB will publish its economic bulletin. In the UK, the focus will be on the meeting of the Bank of England.

DATE	COUNTRY	INDICATOR	PERIOD	CONSENSUS	PREVIOUS
02/01/2021	Eurozone	Unemployment Rate	Dec	8.3%	8.3%
02/02/2021	Eurozone	GDP SA QoQ	4Q	-1.7%	12.5%
02/03/2021	Eurozone	CPI Core YoY	Jan	--	0.2%
02/04/2021	France	Survey of Industrial Investment		--	--
02/04/2021	Eurozone	ECB Publishes Economic Bulletin		--	--
02/04/2021	Eurozone	Retail Sales MoM	Dec	--	-0.1
02/04/2021	United Kingdom	Bank of England Bank Rate	Feb	0.1%	0.1%
02/05/2021	Germany	Factory Orders MoM	Dec	-2.0%	2.3%
02/05/2021	France	Private Sector Payrolls QoQ	4Q	--	1.6%
02/05/2021	United States	Change in Nonfarm Payrolls	Jan	50k	-140k
02/05/2021	United States	Unemployment Rate	Jan	6.7%	6.7%
02/05/2021	United States	Labor Force Participation Rate	Jan	--	61.5%

SOURCE: BLOOMBERG



## FURTHER READING

13

<a href="#">United Kingdom: A month after Brexit</a>	EcoTVWeek	29 January 2021
<a href="#">France: old and new indicators for assessing the economic situation</a>	Chart of the Week	27 January 2021
<a href="#">EcoWeek 21.03. January 22, 2021 issue</a>	EcoWeek	22 January 2021
<a href="#">France's economic situation at the start of 2021</a>	EcoTVWeek	22 January 2021
<a href="#">Spain: Towards a protracted increase in the public deficit?</a>	EcoFlash	21 January 2021
<a href="#">The stock market's recovery in Brazil: a local story</a>	Chart of the Week	20 January 2021
<a href="#">2021 1st quarter issue</a>	EcoEmerging	18 January 2021
<a href="#">EcoWeek 21.02. January 15, 2021 issue</a>	EcoWeek	15 January 2021
<a href="#">The migration of risk in 2021</a>	EcoTVWeek	15 January 2021
<a href="#">The growing cost of negative interest rates on excess reserves has temporarily been offset by the terms of tltro iii</a>	Chart of the Week	14 January 2021
<a href="#">Turkey: ending the stop-and-go growth?</a>	Conjoncture	12 January 2021
<a href="#">Global: Why the level of public indebtedness matters: a market perspective</a>	EcoWeek	11 January 2021
<a href="#">January 2021 edition</a>	EcoTV	7 January 2021
<a href="#">Special Edition - 2021: hopes and challenges</a>	EcoTVWeek	7 January 2021
<a href="#">United Kingdom: Brexit: The worst has been avoided</a>	EcoFlash	6 January 2021
<a href="#">Climate change is accelerating</a>	Chart of the Week	6 January 2021
<a href="#">EcoWeek 20.47. December 18, 2020 issue</a>	EcoWeek	18 December 2020
<a href="#">2020: Entering a new era</a>	EcoTVWeek	18 December 2020
<a href="#">Quarterly Economic Outlook for OECD countries and China</a>	EcoPerspectives	17 December 2020
<a href="#">Egypt: foreign currency liquidity restored</a>	Chart of the Week	16 December 2020



# GROUP ECONOMIC RESEARCH

William De Vijlder  
Chief Economist

+33 1 55 77 47 31

william.devijlder@bnpparibas.com

## ADVANCED ECONOMIES AND STATISTICS

Jean-Luc Proutat

Head – United States, United Kingdom

+33 1 58 16 73 32

jeanluc.proutat@bnpparibas.com

Hélène Baudchon

France - Labour markets

+33 1 58 16 03 63

helene.baudchon@bnpparibas.com

Louis Boisset

European Central Bank watch, Euro area global view, Japan

+33 1 57 43 02 91

louis.boisset@bnpparibas.com

Frédérique Cerisier

Euro area (European governance and public finances)

+33 1 43 16 95 52

frederique.cerisier@bnpparibas.com

Hubert de Barochez

United Kingdom, Nordic countries

+33 1 43 16 95 52

hubert.debarochez@bnpparibas.com

Guillaume Derrien

Spain, Portugal

+33 1 55 77 71 89

guillaume.a.derrien@bnpparibas.com

Raymond Van Der Putten

Germany, Netherlands, Austria, Switzerland – Energy, climate – Projections

+33 1 42 98 53 99

raymond.vanderputten@bnpparibas.com

Tarik Rharrab

Statistics

+33 1 43 16 95 56

tarik.rharrab@bnpparibas.com

## BANKING ECONOMICS

Laurent Quignon

Head

+33 1 42 98 56 54

laurent.quignon@bnpparibas.com

Laure Baquero

+33 1 43 16 95 50

laure.baquero@bnpparibas.com

Céline Choulet

+33 1 43 16 95 54

celine.choulet@bnpparibas.com

Thomas Humblot

+33 1 40 14 30 77

thomas.humblot@bnpparibas.com

## EMERGING ECONOMIES AND COUNTRY RISK

François Faure

Head – Argentina

+33 1 42 98 79 82

francois.faure@bnpparibas.com

Christine Peltier

Deputy Head – Greater China, Vietnam, South Africa

+33 1 42 98 56 27

christine.peltier@bnpparibas.com

Stéphane Alby

Africa (French-speaking countries)

+33 1 42 98 02 04

stephane.alby@bnpparibas.com

Stéphane Colliac

Turkey, Ukraine, Central European countries

+33 1 42 98 43 86

stephane.colliac@bnpparibas.com

Perrine Guerin, Sara Confalonieri

Africa (Portuguese & English-speaking countries)

+33 1 42 98 43 86

perrine.guerin@bnpparibas.com

Pascal Devaux

Middle East, Balkan countries

+33 1 43 16 95 51

pascal.devaux@bnpparibas.com

Hélène Drouot

Korea, Thailand, Philippines, Mexico, Andean countries

+33 1 42 98 33 00

helene.drouot@bnpparibas.com

Salim Hammad

Latin America

+33 1 42 98 74 26

salim.hammad@bnpparibas.com

Johanna Melka

India, South Asia, Russia, CIS

+33 1 58 16 05 84

johanna.melka@bnpparibas.com

## CONTACT MEDIA

Michel Bernardini

+33 1 42 98 05 71

michel.bernardini@bnpparibas.com



**BNP PARIBAS**

**The bank  
for a changing  
world**

# GROUP ECONOMIC RESEARCH



## CONJONCTURE

Structural or in news flow, two issues analysed in depth



## EMERGING

Analyses and forecasts for a selection of emerging economies



## PERSPECTIVES

Analyses and forecasts for the main countries, emerging or developed



## ECOFASH

Data releases, major economic events. Our detailed views...



## ECOWEEK

Weekly economic news and much more...



## ECOTV

In this monthly web TV, our economists make sense of economic news



## ECOTV WEEK

What is the main event this week? The answer is in your two minutes of economy



## MACROWAVES

The economic podcasts

The information and opinions contained in this report have been obtained from, or are based on, public sources believed to be reliable, but no representation or warranty, express or implied, is made that such information is accurate, complete or up to date and it should not be relied upon as such. This report does not constitute an offer or solicitation to buy or sell any securities or other investment. It does not constitute investment advice, nor financial research or analysis. Information and opinions contained in the report are not to be relied upon as authoritative or taken in substitution for the exercise of judgement by any recipient; they are subject to change without notice and not intended to provide the sole basis of any evaluation of the instruments discussed herein. Any reference to past performance should not be taken as an indication of future performance. To the fullest extent permitted by law, no BNP Paribas group company accepts any liability whatsoever (including in negligence) for any direct or consequential loss arising from any use of or reliance on material contained in this report. All estimates and opinions included in this report are made as of the date of this report. Unless otherwise indicated in this report there is no intention to update this report. BNP Paribas SA and its affiliates (collectively "BNP Paribas") may make a market in, or may, as principal or agent, buy or sell securities of any issuer or person mentioned in this report or derivatives thereon. BNP Paribas may have a financial interest in any issuer or person mentioned in this report, including a long or short position in their securities and/or options, futures or other derivative instruments based thereon. Prices, yields and other similar information included in this report are included for information purposes. Numerous factors will affect market pricing and there is no certainty that transactions could be executed at these prices. BNP Paribas, including its officers and employees may serve or have served as an officer, director or in an advisory capacity for any person mentioned in this report. BNP Paribas may, from time to time, solicit, perform or have performed investment banking, underwriting or other services (including acting as adviser, manager, underwriter or lender) within the last 12 months for any person referred to in this report. BNP Paribas may be a party to an agreement with any person relating to the production of this report. BNP Paribas, may to the extent permitted by law, have acted upon or used the information contained herein, or the research or analysis on which it was based, before its publication. BNP Paribas may receive or intend to seek compensation for investment banking services in the next three months from or in relation to any person mentioned in this report. Any person mentioned in this report may have been provided with sections of this report prior to its publication in order to verify its factual accuracy.

BNP Paribas is incorporated in France with limited liability. Registered Office 16 Boulevard des Italiens, 75009 Paris. This report was produced by a BNP Paribas group company. This report is for the use of intended recipients and may not be reproduced (in whole or in part) or delivered or transmitted to any other person without the prior written consent of BNP Paribas. By accepting this document you agree to be bound by the foregoing limitations.

Certain countries within the European Economic Area:

This report has been approved for publication in the United Kingdom by BNP Paribas London Branch. BNP Paribas London Branch is authorised and supervised by the Autorité de Contrôle Prudentiel and authorised and subject to limited regulation by the Financial Services Authority. Details of the extent of our authorisation and regulation by the Financial Services Authority are available from us on request.

This report has been approved for publication in France by BNP Paribas SA. BNP Paribas SA is incorporated in France with Limited Liability and is authorised by the Autorité de Contrôle Prudentiel (ACP) and regulated by the Autorité des Marchés Financiers (AMF). Its head office is 16, boulevard des Italiens 75009 Paris, France.

This report is being distributed in Germany either by BNP Paribas London Branch or by BNP Paribas Niederlassung Frankfurt am Main, a branch of BNP Paribas S.A. whose head office is in Paris, France. BNP Paribas S.A. - Niederlassung Frankfurt am Main, Europa Allee 12, 60327 Frankfurt is authorised and supervised by the Autorité de Contrôle Prudentiel and it is authorised and subject to limited regulation by the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin).

United States: This report is being distributed to US persons by BNP Paribas Securities Corp., or by a subsidiary or affiliate of BNP Paribas that is not registered as a US broker-dealer. BNP Paribas Securities Corp., a subsidiary of BNP Paribas, is a broker-dealer registered with the U.S. Securities and Exchange Commission and a member of the Financial Industry Regulatory Authority and other principal exchanges. BNP Paribas Securities Corp. accepts responsibility for the content of a report prepared by another non-U.S. affiliate only when distributed to U.S. persons by BNP Paribas Securities Corp.

Japan: This report is being distributed in Japan by BNP Paribas Securities (Japan) Limited or by a subsidiary or affiliate of BNP Paribas not registered as a financial instruments firm in Japan, to certain financial institutions defined by article 17-3, item 1 of the Financial Instruments and Exchange Law Enforcement Order. BNP Paribas Securities (Japan) Limited is a financial instruments firm registered according to the Financial Instruments and Exchange Law of Japan and a member of the Japan Securities Dealers Association and the Financial Futures Association of Japan. BNP Paribas Securities (Japan) Limited accepts responsibility for the content of a report prepared by another non-Japan affiliate only when distributed to Japanese based firms by BNP Paribas Securities (Japan) Limited. Some of the foreign securities stated on this report are not disclosed according to the Financial Instruments and Exchange Law of Japan.

Hong Kong: This report is being distributed in Hong Kong by BNP Paribas Hong Kong Branch, a branch of BNP Paribas whose head office is in Paris, France. BNP Paribas Hong Kong Branch is registered as a Licensed Bank under the Banking Ordinance and regulated by the Hong Kong Monetary Authority. BNP Paribas Hong Kong Branch is also a Registered Institution regulated by the Securities and Futures Commission for the conduct of Regulated Activity Types 1, 4 and 6 under the Securities and Futures Ordinance.

Some or all the information reported in this document may already have been published on <https://globalmarkets.bnpparibas.com>

© BNP Paribas (2015). All rights reserved.

POUR RECEVOIR NOS PUBLICATIONS

SUBSCRIBE ON OUR WEBSITE

[see the economic research's website](#)

ET

FOLLOW US ON LINKEDIN

[see the economic research's linkedin page](#)

OU TWITTER

[voir la page twitter des études économiques](#)



Bulletin édité par les Etudes Economiques - BNP PARIBAS

Siège social : 16 boulevard des Italiens - 75009 PARIS / Tél : +33 (0) 1.42.98.12.34

Internet : [www.group.bnpparibas.com](http://www.group.bnpparibas.com) - [www.economic-research.bnpparibas.com](http://www.economic-research.bnpparibas.com)

Directeur de la publication : Jean Lemierre / Rédacteur en chef : William De Vijlder



BNP PARIBAS

The bank  
for a changing  
world