

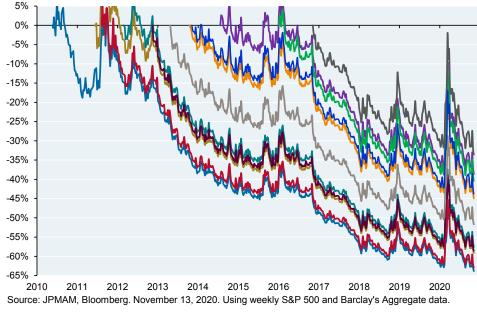
Thanksgiving Eye on the Market (updated November 20 for Wayne County news)

The Armageddonists were not rescued from underperformance purgatory by COVID, and markets are at alltime highs again with prospects for further gains in 2021. However, I can think of something that *could* rescue them, at least temporarily: the risk of electoral illegitimacy and Constitutional mayhem on January 6th. See pages 4-6 for a review of all the rules and procedures in play, including an update from Wayne County, MI

A year ago, I wrote about the "Armageddonists": the market-watchers, forecasters and money managers whose apocalyptic comments spread like wildfire in print and online financial news. As we wrote last year, anyone who was underinvested since they listened to the Armageddonists suffered large opportunity losses from 2009 to 2019 given how well equity markets performed. You can read the original piece here.

So, did COVID rescue the Armageddonists by finally causing the market collapse they had been anticipating? Not really. Even if we give them credit for including pandemics in their panoply of disaster scenarios, the March selloff did not erase the underperformance linked to their views. Furthermore, the 2020 equity market selloff was so quickly reversed that it would have taken an almost immediate rebalancing into riskier assets to partially recover prior losses. So no, COVID did not rescue the Armageddonists from underperformance purgatory, and now markets are at all-time highs again.

COVID did not rescue the Armageddonists from underperformance purgatory Performance impact of shifting \$1 from the S&P 500 to the Barclay's Aggregate Bond Index, measured from the week of the Armageddonist comment to November 13, 2020



How was the chart created? We measured the impact on an investor that shifted \$1 from equities to gov't, mortgage-backed and corporate bonds at the time of the Armageddonist comment. See original piece page 4, linked above, for comment archive.

Simon Johnson & Paul Krugman

David Levy Carl Icahn, John Hussman & George Soros Bob Janjuah Peter Schiff & Tom DeMark

David Stockman & Albert Edwards

Marc Faber & Laksham Achuthan Robert Wiedemer David Rosenberg Jeff Gundlach Nouriel Roubini

INVESTMENT PRODUCTS ARE: • NOT FDIC INSURED • NOT A DEPOSIT OR OTHER OBLIGATION OF, OR GUARANTEED BY, JPMORGAN CHASE BANK, N.A. OR ANY OF ITS AFFILIATES • SUBJECT TO INVESTMENT RISKS, INCLUDING POSSIBLE LOSS OF THE PRINCIPAL AMOUNT INVESTED

¹ There's a hyperlink you may need if you are celebrating Thanksgiving this year with your relatives, either in person or remotely. See box on page 6.

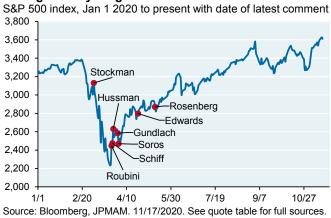


Access our full coronavirus analysis web portal here

Unsurprisingly, the Armageddonists were at it again once COVID hit. The chart and table below show a selection of their very bearish quotes from earlier this year.



Timing is everything



| Date | Armageddonist | Quote | | |
|----------------|-----------------|--|--|--|
| March 4, 2020 | David Stockman | "The stock market is heading not only for another 50% correction (1600 on the S&P 500), but also a long L-shaped bottom rather than a quick V-shaped rebound which occurred after 2009." - Published note on PeakProsperity | | |
| March 24, 2020 | Nouriel Roubini | "With the COVID-19 pandemic still spiraling out of control, the best economic outcome that anyone can hope for is a recession deeper than that following the 2008 financial crisis The risk of a new Great Depression, worse than the original — a Greater Depression — is rising by the day." - <i>Published note on Project Syndicate</i> | | |
| March 25, 2020 | Peter Schiff | "What the Fed is doing is extremely bearish for the U.S. economy It ensures that this recession, depression that we're entering is going to be extremely brutal in the inflation that is going to ravage the economy, particularly investors and retirees." -FOX Business | | |
| March 26, 2020 | John Hussman | "I continue to expect the S&P 500 to lose about two-thirds of its value over the coming years." - Hussman Funds | | |
| March 31, 2020 | Jeff Gundlach | "The low we hit in the middle of March I would bet that low will get taken out The market has really made it back to a resistance zone and the market continues to act somewhat dysfunctionally in my opinion Take out the low of March and then we'll get a more enduring low." - CNBC | | |
| April 1, 2020 | George Soros | "We're going to have the worst bear market in my lifetime." - Business Insider | | |
| April 23, 2020 | Albert Edwards | "Many equity bulls think it is inevitable that massive central bank liquidity will boost equity prices. This strikes me as ludicrous The collapse in profits is highly likely to fatally undermine the argument that equities can look through the valley. I expect instead ample liquidity to flow into government bonds." - Business Insider | | |
| May 12, 2020 | David Rosenberg | "So even as the stock market is telling you that it is all figured out, I can assure you, what we face at this very moment is a highly uncertain economic future, and unfortunately, most of the longer-term risks are to the downside, not the upside. We are in a depression, not a recession. It's a depression. I didn't say the Great Depression; it's a depression," Rosenberg stressed. "And I think the dynamics of a depression are different than they are in a recession, because depressions invoke a secular change in behavior. Classic business cycle recessions are forgotten about within a year after they end. At a minimum, depressions entail a prolonged period of weak economic growth, widespread excess capacity, deflationary pressure and a wave of bankruptcies." - Advisor Perspectives | | |





Why did Armageddonist-driven portfolios underperform?

Fiscal and monetary stimulus explain a lot. The last decade has seen the longest period of negative real policy rates in recorded US history, other than during the Civil War, WWI and WWII. More recently, COVID stimulus was 2x the levels provided during the Financial Crisis, and was delivered 4x faster. Other factors that partially explain the speed with which bear markets are reversed: the technical shortage in US publicly traded equities, since M&A activity and buybacks outweighed primary and secondary issuance (third chart).

While stimulus helped, profits have been more resilient to COVID than Armageddonists may have expected. In Q3 2020, earnings beat expectations (-8% vs consensus -25%), with airlines, other travel-related businesses and energy accounting for almost all of the earnings contraction in the quarter. Free cash flow for the core of the market (excl. financials, REITs and energy) was actually *up* in Q1, Q2 and Q3 of 2020. At the current pace of improvement, S&P 500 EPS should exceed pre-pandemic levels by the end of 2021.

Despite the latest surge in infections² and mortality in the Developed World, we anticipate a further recovery in consumption, inventory demand, capital spending and corporate profits in 2021, fueled by central banks purchasing *another* \$3-\$4 trillion in assets and by the eventual impact of vaccines³ on labor force participation and mobility. If so, portfolios would continue to benefit from normal allocations to risky assets.

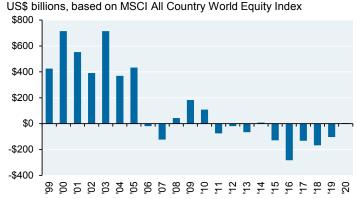
However...I can think of one thing that *could* rescue the Armageddonists, at least temporarily: an unorthodox **US transition of power that is seen as unlawful by the markets**. That's what we discuss next.

Lowest real yields on cash since 1830, other than during wartime, T-bill/Funds rate less inflation, 5-year average



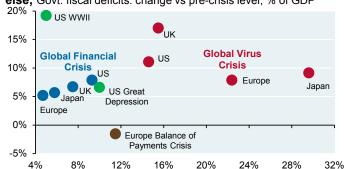
Source: FRB, Robert Shiller, GFD, BLS, JPMAM. October 2020.

Unprecedented low levels of net US equity supply



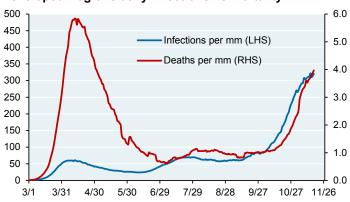
Source: JPM Global Markets Strategy. October 2020.

Debt monetization response to GVC eclipses everything else, Govt. fiscal deficits: change vs pre-crisis level, % of GDP



Central Bank balance sheets: change vs pre-crisis level, % of GDP Source: Central bank sources, OMB, St Louis Fed, JPM Global Economic Research. JPMAM. November 2020. GVC = Global Virus Crisis.

Developed Regions daily infections vs mortality



Source: JHU, JPMAM. 11/17/2020. 7 day avg

² **Michigan** now has 7x more infections than in March, and hospitalizations/mortality are rising sharply. Radiologist and Trump coronavirus expert **Scott Atlas** responded to renewed restrictions in Michigan with this medical recommendation: "The only way this stops is if people rise up. You get what you accept". Only the best people!

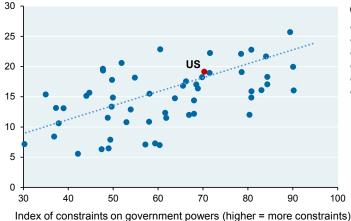
³ Pfizer and Moderna have announced successful Phase III trials results; NovaVax, J&J and AstraZeneca may soon follow.



The remote risk of an American Horror Story: Constitutional mayhem on January 6th

Democracies can/should enforce the rule of law to ensure that only lawfully cast ballots are counted. However, the devil is in the details of how this is achieved; markets might react negatively if the US as the world's reserve currency nation is seen as sliding down a path toward electoral illegitimacy due to post-election maneuvers by political parties. In the chart, we show equity market valuations vs constraints on government power. A modest decline in the rule of law, if it cost 3x-4x multiple points on earnings, could result in a de-rating of US equities.

Countries with more constraints on government power tend to trade at higher valuations Equity market P/E ratio



Constraints on government power index:

- Government powers are limited by the legislature
- Government powers are limited by the judiciary
- Government powers are limited by independent auditing and review
- Government officials are sanctioned for misconduct
- Government powers are subject to non-governmental checks
- Transition of power is subject to the law

Source: n=67 countries. World Economic Forum, World Justice Project, MSCI, Factset, JPMAM. November 2020.

The Constitution, the Courts, the Congress, electoral fraud allegations and a hyperlink for Thanksgiving

- Could one or more states submit competing slates of electors? Only North Carolina expressly grants the legislature a role in certifying electors. Other legislatures, despite constraints in their state constitutions and statutes, might assert authority to act under Article II of the Constitution and submit a competing slate of electors. While there's no explicit authority granted to them to submit competing slates, a Governor or Secretary of State could *also* submit one. Competing slates contrary to the popular vote could be invalid under the federal Election Day statute, and may violate voting rights the Supreme Court recognized in Bush v. Gore. Competing slates are extremely rare: it only happened once in the 20th century (Hawaii, 1960)
- Competing slates would be dealt with via rules spelled out in the **Electoral Count Act** (ECA) of 1887: on January 6th, the newly seated Congress would resolve them. In case of a split Congress, the prevailing view is that ECA tiebreaker rules generally require Congress to adopt whichever slate was signed by the Governor of the state in question. Governor affiliations: Democrats in MI/PA/WI/NV, Republicans in GA/AZ
- US-China historian Graham Allison wrote that the GOP could declare the ECA unconstitutional on the grounds that federal statutes cannot constrain the power the Constitution grants to chambers of Congress to count and determine validity of electoral votes. As the argument goes, counting must proceed under the 12th amendment, and if the House and Senate disagree on competing slates, VP Pence (as presiding officer of the joint session of Congress in which electoral votes are counted) could cast the deciding vote. In the nightmare scenario for markets, the ECA is jettisoned by the Senate, the GOP declares Trump as the victor by flipping 3 states, Democrats disagree and refuse to participate in the Jan 6th session, all of which sets up the prospect of dueling inaugurations, an outcome narrowly averted in 1876 and which led to the 1887 Act
- Allison's scenario assumes that Senate Republicans discard the ECA, despite the fact that it was created to
 address competing slate outcomes. In any case, let's do the math: due to Senate seating rules, its
 composition on Jan 6th will be 51-R and 48-D, since one Georgia runoff election will not be seated yet and
 the other will still be GOP irrespective of the outcome (since it was a special election). So, if 2 or more GOP
 Senators respect the ECA when resolving competing slates, Gubernatorial tie-breakers would remain



Breaking news: the risk of canvassing board rejections of the popular vote

- O Wayne County's Board of Canvassers was deadlocked since 2 GOP members refused to certify; then they certified; and then announced that they rescinded prior certifications since the Michigan Secretary of State had not pledged to conduct a full audit. Note: Biden appears to have won Wayne County by > 30%, and Wayne County GOP canvassers are refusing to certify based on reportedly minor discrepancies; if so, this would be one of the more transparently partisan acts of gov't I can recall
- The State Canvassing Board can ignore the Wayne County results and still certify the state's results. However, if the State Canvassing Board does NOT certify or is deadlocked, an old Michigan state law appears to allow the state legislature to make the decision instead. The State and Wayne County Canvassing Boards could be required by State Courts to certify if their reluctance to do so is based on factors outside the scope of its review powers, but that would require a judgment call by the courts. Breaking news: the GOP leaders of the Michigan legislature are flying this week to meet with Trump
- O However, even if the State Board certifies willingly or from a court order, this same state law still appears to allow the legislature to assume responsibility for resolving the election if "results are contested". The law is written in the passive voice and does not specify who is doing the contesting, but case law dating back 100 years indicates that all a losing candidate or dissenting member of the State Board of Canvassers would have to do is contest the outcome and the decision could be thrown to the legislature
- If it went this far, it would probably come down to a Michigan Supreme Court ruling on the old state law. Federal courts could get involved, but outcomes would be murky given Constitutional constraints on federal courts from getting involved in election decisions by state legislatures
- Another remote risk: Attorney General Barr could in theory direct investigators to seize or impound election records to investigate voter fraud, which would slow down canvassing and recounts. Usual DoJ policy would hold off until after the election is settled before investigating fraud for prosecution or civil enforcement proceedings. But if this happened, it could prevent a state from meeting the Dec 14th Electoral College deadline. However, states have already begun to certify results and once results are certified, even if DoJ seizures interfere with recounts, initial certifications would likely stand as the basis for appointing electors
- On **recounts**, Georgia's is completed with no material changes to results; Trump may now request a *second* recount conducted via high-speed scanners. Recounts might also be requested and conducted in Pennsylvania (Biden +0.8%), Wisconsin (Biden +0.7%) and Nevada (Biden +2.7%). Historically, recounts have not changed outcomes with margins this large
- Bottom line: a LOT of very unorthodox things have to happen for Trump to remain President after January 20th. Based on the uncertified vote results, Trump would have to reverse or impede results in three states to prevent Biden from reaching 270 electoral votes (EV). Biden unofficially has 306 EV, so Trump would need to flip three states via one of the avenues described above (see table on following page for EVs by state and other data)
- How remote are these risks? Ed Foley of Ohio State (the constitutional election law expert cited by Allison) wrote his *own* article last week entitled "Relax. Biden will be sworn in on Jan. 20", and another expert that I have been working with agrees with him. Among their arguments: the high hurdle needed to prove sufficient levels of unlawful ballots for courts to set aside the outcome in that state
- Even so, I'm not ruling anything out. Trump fired the top US election security official last night, and his campaign lawsuits are petitioning judges to prevent state certification of results due to fraud and other improper conduct. The RNC hasn't signed on to many of these lawsuits, and some Trump law firms are reportedly abandoning him. But anything is possible, particularly since a senior DoJ official who oversees voting investigations stepped down from his role after Attorney General Barr authorized US attorneys to probe alleged fraud. The departing DoJ official stated to colleagues that the new DoJ policy abrogates the forty-year old Non-Interference Policy for ballot fraud investigations



I have not mentioned **Contingent Elections**, since most scenarios I can think of entail one candidate or the other reaching 270 EVs; and/or since if any state's EVs are not submitted by the December 14th deadline, such EVs would most likely be removed from the numerator *and* denominator of the Electoral College equation. As a result, a candidate would need to obtain a simple majority of all remaining EVs to win.

What about the Supreme Court?

- First, the Court might be able to hear appeals on **state challenges**, such as late-arriving absentee ballots in PA (too few to change the outcome); complaints on transparency of vote counting (judicial relief could entail recounting certain counties); illegal acceptance of certain votes (votes in question too small to change the results); and complaints that the voting process suffered from pervasive irregularity and fraud (most of these claims have been rejected by lower courts over the last 2 weeks). However, many election disputes are resolved by state courts and cannot be reviewed by the U.S. Supreme Court
- Second, what if the Court heard a challenge to constitutionality of the ECA? Such a lawsuit would probably
 fail: the ECA does not violate the rights of any person in particular, therefore no one has standing under
 Article III of the Constitution to contest it. Furthermore, since the Constitution grants sole authority to
 chambers of Congress to count and determine the validity of electoral votes, a federal court (including the
 Supreme Court) lacks jurisdiction under the Political Question Doctrine to constrain Congressional authority

I'm not going to comment on likelihood of pervasive fraud; the courts will rule on that. I will say this: in February 2020, Senate Republicans blocked bills related to election security, including election security funding and a proposal to ban voting machines from being connected to the internet. At the time, there were 10 other election security bills that McConnell was also blocking (this election is delivering an unending stream of Schadenfreude). Also, my brother in-law has been sending me videos and links to "internet news sources" asserting "proof" of widespread fraud from election hackers. I spent a few hours of my life that I will never get back responding to him with sources clearly refuting these theories, but I'm not sure it will make much of an impact on him. If you have to deal with family members like this at Thanksgiving, here you go: https://www.factcheck.org/2020/11/bogus-theory-claims-supercomputer-switched-votes-in-election/

Sources and articles cited

I've been working with Michael Morley (FSU), who teaches and writes in areas of election law, constitutional law, federal courts, election emergencies, post-election litigation and defendant-oriented injunctions

"Donald Trump's Stealthy Road to Victory", Graham Allison (Harvard) in The National Interest, 11/6/2020

"Relax. Biden will be sworn in on Jan. 20", Edward B Foley (Ohio State), Washington Post, 11/11/2020

Party affiliations of key state entities

| State | Governor | State Legislature | Secretary of State | Electoral Votes | Certification Deadline |
|-------|----------|----------------------|--------------------|--------------------|---------------------------|
| ΑZ | R | R | D | 11 | Nov. 30th |
| GA | R | R | R | 16 | Nov. 20th |
| МІ | D | R | D | 16 | Nov. 23rd |
| NV | D | D | R | 6 | Nov. 24th |
| PA | D | R | D | 20 | Nov. 23rd |
| WI | D | R | D | 10 | Dec. 1st |

Source: NCSL, National Association of Secretaries of State, Washington Post. November 2020.

Access our full coronavirus analysis web portal here

November 18, 2020

Purpose of This Material: This material is for information purposes only. The views, opinions, estimates and strategies expressed herein constitutes Michael Cembalest's judgment based on current market conditions and are subject to change without notice, and may differ from those expressed by other areas of J.P. Morgan. This information in no way constitutes J.P. Morgan Research and should not be treated as such.

GENERAL RISKS & CONSIDERATIONS

Any views, strategies or products discussed in this material may not be appropriate for all individuals and are subject to risks. Investors may get back less than they invested, and past performance is not a reliable indicator of future results. Asset allocation / diversification does not guarantee a profit or protect against loss. Nothing in this material should be relied upon in isolation for the purpose of making an investment decision. You are urged to consider carefully whether the services, products, asset classes (e.g. equities, fixed income, alternative investments, commodities, etc.) or strategies discussed are suitable to your needs. You must also consider the objectives, risks, charges, and expenses associated with an investment service, product or strategy prior to making an investment decision. For this and more complete information, including discussion of your goals/situation, contact your J.P. Morgan team.

NON-RELIANCE

Certain information contained in this material is believed to be reliable; however, JPM does not represent or warrant its accuracy, reliability or completeness, or accept any liability for any loss or damage (whether direct or indirect) arising out of the use of all or any part of this material. No representation or warranty should be made with regard to any computations, graphs, tables, diagrams or commentary in this material, which are provided for illustration/reference purposes only. The views, opinions, estimates and strategies expressed in this material constitute our judgment based on current market conditions and are subject to change without notice. JPM assumes no duty to update any information in this material in the event that such information changes. Views, opinions, estimates and strategies expressed herein may differ from those expressed by other areas of JPM, views expressed for other purposes or in other contexts, and this material should not be regarded as a research report. Any projected results and risks are based solely on hypothetical examples cited, and actual results and risks will vary depending on specific circumstances. Forward-looking statements should not be considered as guarantees or predictions of future events.

Nothing in this document shall be construed as giving rise to any duty of care owed to, or advisory relationship with, you or any third party. Nothing in this document shall be regarded as an offer, solicitation, recommendation or advice (whether financial, accounting, legal, tax or other) given by J.P. Morgan and/or its officers or employees, irrespective of whether or not such communication was given at your request.

J.P. Morgan and its affiliates and employees do not provide tax, legal or accounting advice. You should consult your own tax, legal and accounting advisors before engaging in any financial transactions.

LEGAL ENTITY, BRAND & REGULATORY INFORMATION

In the **United States**, bank deposit accounts and related services, such as checking, savings and bank lending, are offered by **JPMorgan Chase Bank**, **N.A.**Member FDIC. **JPMorgan Chase Bank**, **N.A.** and its affiliates (collectively "**JPMCB**") offer investment products, which may include bank managed investment accounts and custody, as part of its trust and fiduciary services. Other investment products and services, such as brokerage and advisory accounts, are offered through **J.P. Morgan Securities LLC ("JPMS")**, a member of <u>FINRA</u> and <u>SIPC</u>. Annuities are made available through Chase Insurance Agency, Inc. (CIA), a licensed insurance agency, doing business as Chase Insurance Agency Services, Inc. in Florida. JPMCB, JPMS and CIA are affiliated companies under the common control of JPM. Products not available in all states.

In Luxembourg, this material is issued by J.P. Morgan Bank Luxembourg S.A. (JPMBL), with registered office at European Bank and Business Centre, 6 route de Treves, L-2633, Senningerberg, Luxembourg. R.C.S Luxembourg B10.958. Authorised and regulated by Commission de Surveillance du Secteur Financier (CSSF) and jointly supervised by the European Central Bank (ECB) and the CSSF. J.P. Morgan Bank Luxembourg S.A. is authorized as a credit institution in accordance with the Law of 5th April 1993. In the United Kingdom, this material is issued by J.P. Morgan Bank Luxembourg S.A-London Branch. Prior to Brexit, (Brexit meaning that the UK leaves the European Union under Article 50 of the Treaty on European Union, or, if later, loses its ability to passport financial services between the UK and the remainder of the EEA), J.P. Morgan Bank Luxembourg S.A- London Branch is subject to limited regulation by the Financial Conduct Authority and the Prudential Regulation Authority. Details about the extent of our regulation by the Financial Conduct Authority and the Prudential Regulation Authority are available from us on request. In the event of Brexit, in the UK, J.P. Morgan Bank Luxembourg S.A.— London Branch is authorised by the Prudential Regulation Authority, subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from us on request. In Spain, this material is distributed by J.P. Morgan Bank Luxembourg S.A., Sucursal en España, with registered office at Paseo de la Castellana, 31, 28046 Madrid, Spain. J.P. Morgan Bank Luxembourg S.A., Sucursal en España is registered under number 1516 within the administrative registry of the Bank of Spain and supervised by the Spanish Securities Market Commission (CNMV). In Germany, this material is distributed by J.P. Morgan Bank Luxembourg S.A., Frankfurt Branch, registered office at Taunustor 1 (TaunusTurm), 60310 Frankfurt, Germany, jointly supervised by the Commission de Surveillance du Secteur Financier (CSSF) and the European Central Bank (ECB), and in certain areas also supervised by the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin). In Italy, this material is distributed by J.P. Morgan Bank Luxembourg S.A- Milan Branch, registered office at Via Catena Adalberto 4, Milan 20121, Italy and regulated by Bank of Italy and the Commissione Nazionale per le Società e la Borsa (CONSOB). In the Netherlands, this material is distributed by J.P. Morgan Bank Luxembourg S.A., Amsterdam Branch, with registered office at World Trade Centre, Tower B, Strawinskylaan 1135, 1077 XX, Amsterdam, The Netherlands. J.P. Morgan Bank Luxembourg S.A., Amsterdam Branch is authorised and regulated by the Commission de Surveillance du Secteur Financier (CSSF) and jointly supervised by the European Central Bank (ECB) and the CSSF in Luxembourg; J.P. Morgan Bank Luxembourg S.A., Amsterdam Branch is also authorised and supervised by De Nederlandsche Bank (DNB) and the Autoriteit Financiële Markten (AFM) in the Netherlands. Registered with the Kamer van Koophandel as a branch of J.P. Morgan Bank Luxembourg S.A. under registration number 71651845. In Denmark, this material is distributed by J.P. Morgan Bank Luxembourg, Copenhagen Br, filial af J.P. Morgan Bank Luxembourg S.A. with registered office at Kalvebod Brygge 39-41, 1560 København V, Denmark. J.P. Morgan Bank Luxembourg, Copenhagen Br, filial af J.P. Morgan Bank Luxembourg S.A.is authorised and regulated by Commission de Surveillance du Secteur Financier (CSSF) and jointly supervised by the European Central Bank (ECB) and the CSSF. J.P. Morgan Bank Luxembourg, Copenhagen Br, filial af J.P. Morgan Bank Luxembourg S.A. is also subject to the supervision of Finanstilsynet (Danish FSA) and registered with Finanstilsynet as a branch of J.P. Morgan Bank Luxembourg S.A. under code 29009. In Sweden, this material is distributed by J.P. Morgan Bank Luxembourg S.A. - Stockholm Bankfilial, with registered office at Hamngatan 15, Stockholm, 11147, Sweden. J.P. Morgan Bank Luxembourg S.A. - Stockholm Bankfilial is authorised and regulated by Commission de Surveillance du Secteur Financier (CSSF) and jointly supervised by the European Central Bank (ECB) and the CSSF. J.P. Morgan Bank Luxembourg S.A., Stockholm Branch is also subject to the supervision of Finansinspektionen (Swedish FSA). Registered with Finansinspektionen as a branch of J.P. Morgan Bank Luxembourg S.A.. In France, this material is distributed by JPMorgan Chase Bank, N.A. ("JPMCB"), Paris branch, which is regulated by the French banking authorities Autorité de Contrôle Prudentiel

THANKSGIVING EYE ON THE MARKET • MICHAEL CEMBALEST • J.P. MORGAN



Access our full coronavirus analysis web portal here

November 18, 2020

et de Résolution and Autorité des Marchés Financiers. In **Switzerland**, this material is distributed by **J.P. Morgan (Suisse) SA**, which is regulated in Switzerland by the Swiss Financial Market Supervisory Authority (FINMA).

In Hong Kong, this material is distributed by JPMCB, Hong Kong branch. JPMCB, Hong Kong branch is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission of Hong Kong. In Hong Kong, we will cease to use your personal data for our marketing purposes without charge if you so request. In Singapore, this material is distributed by JPMCB, Singapore branch. JPMCB, Singapore branch is regulated by the Monetary Authority of Singapore. Dealing and advisory services and discretionary investment management services are provided to you by JPMCB, Hong Kong/Singapore branch (as notified to you). Banking and custody services are provided to you by JPMCB Singapore Branch. The contents of this document have not been reviewed by any regulatory authority in Hong Kong, Singapore or any other jurisdictions. This advertisement has not been reviewed by the Monetary Authority of Singapore. JPMorgan Chase Bank, N.A., a national banking association chartered under the laws of the United States, and as a body corporate, its shareholder's liability is limited.

JPMorgan Chase Bank, N.A. (JPMCBNA) (ABN 43 074 112 011/AFS Licence No: 238367) is regulated by the Australian Securities and Investment Commission and the Australian Prudential Regulation Authority. Material provided by JPMCBNA in Australia is to "wholesale clients" only. For the purposes of this paragraph the term "wholesale client" has the meaning given in section 761G of the Corporations Act 2001 (Cth). Please inform us if you are not a Wholesale Client now or if you cease to be a Wholesale Client at any time in the future.

JPMS is a registered foreign company (overseas) (ARBN 109293610) incorporated in Delaware, U.S.A. Under Australian financial services licensing requirements, carrying on a financial services business in Australia requires a financial service provider, such as J.P. Morgan Securities LLC (JPMS), to hold an Australian Financial Services Licence (AFSL), unless an exemption applies. JPMS is exempt from the requirement to hold an AFSL under the Corporations Act 2001 (Cth) (Act) in respect of financial services it provides to you, and is regulated by the SEC, FINRA and CFTC under US laws, which differ from Australian laws. Material provided by JPMS in Australia is to "wholesale clients" only. The information provided in this material is not intended to be, and must not be, distributed or passed on, directly or indirectly, to any other class of persons in Australia. For the purposes of this paragraph the term "wholesale client" has the meaning given in section 761G of the Act. Please inform us immediately if you are not a Wholesale Client now or if you cease to be a Wholesale Client at any time in the future.

This material has not been prepared specifically for Australian investors. It:

- may contain references to dollar amounts which are not Australian dollars;
- · may contain financial information which is not prepared in accordance with Australian law or practices;
- · may not address risks associated with investment in foreign currency denominated investments; and
- does not address Australian tax issues.

With respect to countries in Latin America, the distribution of this material may be restricted in certain jurisdictions. We may offer and/or sell to you securities or other financial instruments which may not be registered under, and are not the subject of a public offering under, the securities or other financial regulatory laws of your home country. Such securities or instruments are offered and/or sold to you on a private basis only. Any communication by us to you regarding such securities or instruments, including without limitation the delivery of a prospectus, term sheet or other offering document, is not intended by us as an offer to sell or a solicitation of an offer to buy any securities or instruments in any jurisdiction in which such an offer or a solicitation is unlawful. Furthermore, such securities or instruments may be subject to certain regulatory and/or contractual restrictions on subsequent transfer by you, and you are solely responsible for ascertaining and complying with such restrictions. To the extent this content makes reference to a fund, the Fund may not be publicly offered in any Latin American country, without previous registration of such fund's securities in compliance with the laws of the corresponding jurisdiction. Public offering of any security, including the shares of the Fund, without previous registration at Brazilian Securities and Exchange Commission—CVM is completely prohibited. Some products or services contained in the materials might not be currently provided by the Brazilian and Mexican platforms.

References to "J.P. Morgan" are to JPM, its subsidiaries and affiliates worldwide. "J.P. Morgan Private Bank" is the brand name for the private banking business conducted by JPM.

This material is intended for your personal use and should not be circulated to or used by any other person, or duplicated for non-personal use, without our permission. If you have any questions or no longer wish to receive these communications, please contact your J.P. Morgan team.

© 2020 JPMorgan Chase & Co. All rights reserved.