

**J.P. Morgan Structured Products B.V.**

(incorporated with limited liability in The Netherlands)

*This document (the "**Registration Document**", which definition shall also include all information incorporated by reference herein) constitutes a registration document for the purpose of Article 6.3 of Regulation (EU) 2017/1129 (as amended, the "**EU Prospectus Regulation**"). This Registration Document, together with each securities note (the "**Securities Note**") and any summary (the "**Summary**") drawn up for use only in connection with the issue of Securities (as defined below) will constitute a prospectus for the purposes of Article 6.3 of the EU Prospectus Regulation. This Registration Document is to be read in conjunction with the Securities Note, the Summary (if applicable) and all information which is deemed to be incorporated by reference herein, as supplemented from time to time (see "Documents Incorporated by Reference" below).*

J.P. Morgan Structured Products B.V. ("**JPMSP**"), in its capacity as an issuer (the "**Issuer**"), subject to compliance with all relevant laws, regulations and directives, may from time to time issue notes or other similar instruments ("**Notes**"), warrants or other similar instruments ("**Warrants**") and certificates or other similar instruments ("**Certificates**"). Notes, Warrants and Certificates shall be referred to collectively as "**Securities**". Securities issued by JPMSP will be guaranteed (the "**JPMorgan Chase Bank, N.A. Guarantee**") by JPMorgan Chase Bank, N.A. (in such capacity, the "**Guarantor**").

This Registration Document has been approved by the *Commission de Surveillance du Secteur Financier* (the "**CSSF**"), in its capacity as competent authority under the EU Prospectus Regulation and the Luxembourg Law dated 16 July 2019 on prospectuses for securities (the "**Luxembourg Prospectus Law**"). The CSSF has only approved this Registration Document as meeting the standards of completeness, comprehensibility and consistency imposed by the EU Prospectus Regulation, and such approval should not be considered as an endorsement of the Issuer. Pursuant to Article 6(4) of the Luxembourg Prospectus Law, by approving this Registration Document, the CSSF gives no undertaking as to, and assumes no responsibility for, the economic and financial soundness of the transaction or the quality and solvency of the Issuer. The Luxembourg Stock Exchange's regulated market is a regulated market for the purposes of Directive 2014/65/EU. Information concerning the Securities and the terms and conditions thereof are set forth in the applicable Securities Note and the Summary (if applicable) which, with respect to Securities to be admitted to trading on the Luxembourg Stock Exchange's regulated market and to be listed on the Official List of the Luxembourg Stock Exchange, will be delivered to the CSSF on or prior to the date of issue of the Securities. This Registration Document has been prepared in accordance with Article 7 of Commission Delegated Regulation (EU) 2019/980 of 14 March 2019, relating to registration documents for retail non-equity securities.

This Registration Document will be valid for 12 months following the date of approval until 16 April 2026. The obligation to supplement this Registration Document in the event of significant new factors, material mistakes or material inaccuracies does not apply once this Registration Document is no longer valid.

The distribution of this Registration Document and any document incorporated by reference into this Registration Document and the offer or sale of Securities issued by JPMSP may be restricted by law in certain jurisdictions. Persons into whose possession this Registration Document or any document incorporated by reference into this Registration Document or any securities issued by JPMSP come must inform themselves about, and observe, any such restrictions.

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RESPONSIBILITY STATEMENT

JPMSP accepts responsibility for the information given in this Registration Document and confirms that the information contained in this Registration Document is, to the best of its knowledge, in accordance with the facts and that the Registration Document makes no omission likely to affect its import.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Certain statements in this Registration Document, including the documents incorporated by reference herein, are forward-looking statements. These statements can be identified by the fact that they do not relate strictly to historical or current facts. Forward-looking statements often use words such as "anticipate", "target", "expect", "estimate", "intend", "plan", "goal", "believe", or other words of similar meaning. Forward-looking statements provide JPMorgan Chase's ("**JPMorgan Chase**" being JPMorgan Chase & Co. (the parent company of the group) together with its consolidated subsidiaries) current expectations or forecasts of future events, circumstances, results or aspirations. JPMorgan Chase also may make forward-looking statements in its other documents filed or furnished with the SEC. In addition, JPMorgan Chase's senior management may make forward-looking statements orally to investors, analysts, representatives of the media and others.

All forward-looking statements are, by their nature, subject to risks and uncertainties, many of which are beyond JPMorgan Chase's control. JPMorgan Chase's actual future results may differ materially from those set forth in its forward-looking statements. While there is no assurance that any list of risks and uncertainties or risk factors is complete, below are certain factors which could cause actual results to differ from those in the forward-looking statements:

- local, regional and global business, economic and political conditions and geopolitical events, including geopolitical tensions and hostilities;
- changes in laws, rules and regulatory requirements, including capital and liquidity requirements affecting the JPMorgan Chase businesses, and the ability of JPMorgan Chase to address those requirements;
- heightened regulatory and governmental oversight and scrutiny of JPMorgan Chase's business practices, including dealings with retail customers;
- changes in trade, monetary and fiscal policies and laws;
- changes in the level of inflation;
- changes in income tax laws, rules, and regulations;
- changes in FDIC assessments;
- securities and capital markets behaviour, including changes in market liquidity and volatility;
- changes in investor sentiment or consumer spending or savings behaviour;
- ability of JPMorgan Chase to manage effectively its capital and liquidity;
- changes in credit ratings assigned to JPMorgan Chase & Co. or its subsidiaries;
- damage to JPMorgan Chase's reputation;
- ability of JPMorgan Chase to appropriately address social, environmental and sustainability concerns that may arise, including from its business activities;
- ability of JPMorgan Chase to deal effectively with an economic slowdown or other economic or market disruption, including, but not limited to, in the interest rate environment;
- technology changes instituted by JPMorgan Chase, its counterparties or competitors;
- the effectiveness of JPMorgan Chase's control agenda;
- ability of JPMorgan Chase to develop or discontinue products and services, and the extent to which products or services previously sold by JPMorgan Chase require JPMorgan Chase to incur liabilities or absorb losses not contemplated at their initiation or origination;

- acceptance of JPMorgan Chase's new and existing products and services by the marketplace and the ability of JPMorgan Chase to innovate and to increase market share;
- ability of JPMorgan Chase to attract and retain qualified employees;
- ability of JPMorgan Chase to control expenses;
- competitive pressures;
- changes in the credit quality of JPMorgan Chase's clients, customers and counterparties;
- adequacy of JPMorgan Chase's risk management framework, disclosure controls and procedures and internal control over financial reporting;
- adverse judicial or regulatory proceedings;
- ability of JPMorgan Chase to determine accurate values of certain assets and liabilities;
- occurrence of natural or man-made disasters or calamities, including health emergencies, the spread of infectious diseases, epidemics or pandemics, an outbreak or escalation of hostilities or other geopolitical instabilities, the effects of climate change or extraordinary events beyond JPMorgan Chase's control, and JPMorgan Chase's ability to deal effectively with disruptions caused by the foregoing;
- ability of JPMorgan Chase to maintain the security of its financial, accounting, technology, data processing and other operational systems and facilities;
- ability of JPMorgan Chase to withstand disruptions that may be caused by any failure of its operational systems or those of third parties;
- ability of JPMorgan Chase to effectively defend itself against cyber attacks and other attempts by unauthorised parties to access information of JPMorgan Chase or its customers or to disrupt JPMorgan Chase's systems; and
- the other risks and uncertainties detailed in the section entitled "Risk Factors" of this Registration Document.

Any forward-looking statements made by or on behalf of JPMorgan Chase & Co. speak only as of the date they are made and JPMorgan Chase & Co. does not undertake to update forward-looking statements to reflect the impact of circumstances or events that arise after the date the forward-looking statements were made. As a result, you should not place undue reliance on these forward-looking statements. Investors should, however, consult any further disclosures of a forward-looking nature which JPMorgan Chase & Co. may make in any subsequent Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, or Current Reports on Form 8-K filed with the SEC.

RISK FACTORS

Investors in the Securities are exposed to the creditworthiness of JPMSP as an issuer of Securities and JPMorgan Chase Bank, N.A. as Guarantor of Securities issued by JPMSP.

JPMorgan Chase is a major, global financial services group and, as such, faces a variety of risks that are substantial and inherent in its businesses. The parent company of the group, JPMorgan Chase & Co., is a bank holding company and a financial holding company under U.S. federal law.

JPMSP is an indirect, wholly-owned subsidiary of JPMorgan Chase Bank, N.A. JPMorgan Chase Bank, N.A. is one of the principal bank subsidiaries of JPMorgan Chase & Co. It is anticipated that, in respect of each issuance of Securities by it, JPMSP will enter into hedging arrangements with one or more affiliates within the JPMorgan Chase group in order to hedge its market risk for such issuance. The ability of JPMSP to perform its respective obligations under the Securities may be affected by any inability or failure to perform, pursuant to its respective hedging arrangements, by such other J.P. Morgan affiliate. Accordingly, JPMSP is subject to the risk applicable to the JPMorgan Chase group.

The following factors could materially adversely affect the business of JPMorgan Chase and consequently the ability of JPMSP to fulfil its obligations under the Securities. Each of the risks described below could adversely affect the trading value (if any) of the Securities. Investors could lose some or all of their investment.

Contents of the Risk Factors

1. **Regulatory, Legal and Reputation Risks**
2. **Political and Country Risks**
3. **Market and Credit Risks**
4. **Liquidity and Capital Risks**
5. **Operational, Strategic, Conduct and People Risks**

1. Regulatory, Legal and Reputation Risks

JPMorgan Chase's businesses are highly regulated, and the laws, rules and regulations that apply to JPMorgan Chase have a significant impact on its business and operations.

JPMorgan Chase is a financial services firm with operations worldwide. JPMorgan Chase must comply with the laws, rules and regulations that apply to its operations in all of the jurisdictions around the world in which it does business, and financial services firms such as JPMorgan Chase are subject to extensive and constantly-evolving regulation and supervision.

The regulation and supervision of JPMorgan Chase significantly affects the way that it conducts its business and structures its operations, and JPMorgan Chase could be required to make changes to its business and operations in response to supervisory expectations or decisions or to new or changed laws, rules and regulations. These types of developments could result in JPMorgan Chase incurring additional costs or experiencing a reduction in revenues to comply with applicable laws, rules and regulations, which could reduce its profitability. Furthermore, JPMorgan Chase's entry into or acquisition of a new business or an increase in its principal investments may require JPMorgan Chase to comply with additional laws, rules, and regulations.

Additionally, JPMorgan Chase's ability to execute certain business initiatives could become more challenging due to increased regulation in the financial services industry, such as limitations on late payment, overdraft and interchange fees. This could adversely affect JPMorgan Chase's earnings from its consumer businesses, prompting the re-evaluation or adjustment of certain businesses or product offerings, as well as the reallocation of resources and incurrence of restructuring costs, which could impact revenue and profitability in the affected lines of business.

In response to new and existing laws, rules and regulations and expanded supervision, JPMorgan Chase has in the past been and could in the future be, required to:

- limit the products and services that it offers;
- reduce the liquidity that it can provide through its market-making activities;
- refrain from engaging in business opportunities that it might otherwise pursue;
- pay higher taxes (including as part of any minimum global tax regime), assessments, levies or other governmental charges, including in connection with the resolution of tax examinations;
- incur losses, including with respect to fraudulent transactions perpetrated against its customers;
- dispose of certain assets, and do so at times or prices that are disadvantageous;
- impose restrictions on certain business activities; or
- increase the prices that it charges for products and services, which could reduce the demand for them.

Any failure by JPMorgan Chase to comply with the laws, rules and regulations to which it is subject could result in:

- increased regulatory and supervisory scrutiny;
- regulatory and governmental enforcement actions;
- the imposition of fines, penalties or other sanctions;
- increased exposure to litigation; or

- harm to its reputation.

Differences and inconsistencies in financial services regulation and supervision can negatively impact JPMorgan Chase's businesses, operations and financial results.

The content and application of laws, rules and regulations affecting financial services firms can vary according to factors such as the size of the firm, the jurisdiction in which it is organised or operates, and other criteria. For example:

- larger firms such as JPMorgan Chase are often subject to more stringent supervision, regulation and regulatory scrutiny;
- financial technology companies and other non-traditional competitors may not be subject to banking regulation, or may be supervised by a national or state regulatory agency that does not have the same resources or regulatory priorities as the regulatory agencies that supervise more diversified financial services firms; or
- the financial services regulatory and supervisory framework in a particular jurisdiction may favour financial institutions that are based in that jurisdiction.

These types of differences in the regulatory and supervisory framework can result in JPMorgan Chase losing market share to competitors that are less regulated or not subject to regulation, especially with respect to unregulated financial products.

There can also be significant differences in the ways that similar regulatory initiatives affecting the financial services industry are implemented in the U.S. and in other countries and regions in which JPMorgan Chase does business. For example, when adopting rules that are intended to implement a global regulatory or supervisory standard, a national regulator may introduce additional or more restrictive requirements, which can create competitive disadvantages for financial services firms, such as JPMorgan Chase, that may be subject to those enhanced regulations.

In addition, certain national and multi-national bodies and governmental agencies outside the U.S. have adopted laws, rules or regulations that may conflict with or prohibit JPMorgan Chase from complying with laws, rules and regulations to which it is otherwise subject, creating conflict of law issues that also increase its risk of non-compliance in those jurisdictions.

Legislative and regulatory initiatives outside the U.S. have required and could in the future require JPMorgan Chase to make significant modifications to its operations and legal entity structure in the relevant countries or regions in order to comply with those requirements. These include laws, rules and regulations that have been adopted or proposed, as well as regulatory expectations, relating to:

- the establishment of locally-based intermediate holding companies or operating subsidiaries;
- requirements to maintain minimum amounts of capital or liquidity in locally-based subsidiaries;
- the implementation of processes within locally-based subsidiaries to comply with local regulatory requirements or expectations;
- the separation (or "ring fencing") of core banking products and services from markets activities;
- requirements for the orderly resolution of financial institutions;
- requirements for executing or settling transactions on exchanges or through central counterparties ("CCPs"), or for depositing funds with other financial institutions or clearing and settlement systems;
- position limits and reporting rules for derivatives;

- governance and accountability regimes;
- conduct of business and control requirements; and
- restrictions on compensation.

These types of differences, inconsistencies and conflicts in financial services regulation have required and could in the future require JPMorgan Chase to:

- divest assets or restructure its operations;
- maintain higher levels of capital and liquidity, or absorb increased capital and liquidity costs;
- incur higher operational and compliance costs;
- change the prices that it charges for its products and services;
- curtail the products and services that it offers to its customers and clients;
- curtail other business opportunities, including acquisitions or principal investments, that it otherwise would have pursued;
- become subject to regulatory fines, penalties or other sanctions; or
- incur higher costs for complying with different legal and regulatory frameworks.

Any or all of these factors could harm JPMorgan Chase's ability to compete against other firms that are not subject to the same laws, rules and regulations or supervisory oversight, or harm JPMorgan Chase's businesses, results of operations and profitability.

Resolving regulatory investigations can subject JPMorgan Chase to significant penalties and collateral consequences, and could result in higher compliance costs or restrictions on its operations.

JPMorgan Chase is subject to heightened oversight and scrutiny from regulatory authorities in many jurisdictions. JPMorgan Chase has paid significant fines, provided other monetary relief, incurred other penalties and experienced other repercussions in connection with resolving investigations and enforcement actions by governmental agencies. JPMorgan Chase could become subject to similar regulatory or governmental resolutions or other actions in the future, and addressing the requirements of any such resolutions or actions could result in JPMorgan Chase incurring higher operational and compliance costs, including devoting substantial resources to the required remediation or needing to comply with other restrictions.

In connection with resolving specific regulatory investigations or enforcement actions, certain regulators have required JPMorgan Chase and other financial institutions to admit wrongdoing with respect to the activities that gave rise to the resolution. These types of admissions can lead to:

- greater exposure in litigation;
- damage to JPMorgan Chase's reputation;
- disqualification from doing business with certain clients or customers, or in specific jurisdictions; or
- other direct and indirect adverse effects.

Furthermore, government officials in the U.S. and other countries have demonstrated a willingness to bring criminal actions against financial institutions and have required that institutions plead guilty to criminal offences or admit other wrongdoing in connection with

resolving regulatory investigations or enforcement actions. Resolutions of this type can have significant collateral consequences for the subject financial institution, including:

- loss of clients, customers and business;
- restrictions on offering certain products or services; and
- losing permission to operate certain businesses, either temporarily or permanently.

JPMorgan Chase expects that:

- it and other financial services firms will continue to be subject to heightened regulatory scrutiny and governmental investigations and enforcement actions;
- governmental authorities will continue to require that financial institutions be penalised for actual or deemed violations of law with formal and punitive enforcement actions, including the imposition of significant monetary and other sanctions, rather than resolving these matters through informal supervisory actions; and
- governmental authorities will be more likely to pursue formal enforcement actions and resolutions against JPMorgan Chase to the extent that it has previously been subject to other governmental investigations or enforcement actions.

If JPMorgan Chase fails to meet the requirements of any resolution of a governmental investigation or enforcement action, or to maintain risk and control processes that meet the heightened standards and expectations of its regulators, it could be required to, among other things:

- enter into further resolutions of investigations or enforcement actions;
- pay additional regulatory penalties or enter into judgments; or
- accept material regulatory restrictions on, or changes in the management of, its businesses.

In these circumstances, JPMorgan Chase could also become subject to other sanctions, or to prosecution or civil litigation with respect to the conduct that gave rise to an investigation or enforcement action. In addition, JPMorgan Chase can be subject to higher costs or requests for additional capital in connection with the resolution of governmental investigations and enforcement actions involving newly-acquired businesses, companies in which JPMorgan Chase has made principal investments, parties to joint ventures with JPMorgan Chase, and vendors with which JPMorgan Chase does business.

JPMorgan Chase's operations and financial results can be negatively impacted in jurisdictions with less predictable legal and regulatory frameworks.

JPMorgan Chase conducts existing and new business in certain countries, states, municipalities, territories and other jurisdictions in which the application of the rule of law is inconsistent, extra-legal or less predictable, including with respect to:

- the absence of a statutory or regulatory basis or guidance for engaging in specific types of business or transactions;
- conflicting or ambiguous laws, rules, regulations and judicial orders, or the inconsistent application or interpretation of existing laws, rules, regulations and judicial precedents;
- actions by or at the direction of government officials or agencies;
- uncertainty concerning the enforceability of intellectual property rights or contractual or other obligations;

- difficulty in competing in economies in which the government controls or protects all or a portion of the local economy or specific businesses, or where graft or corruption may be pervasive;
- the threat of regulatory investigations, civil litigations or criminal prosecutions that are arbitrary or otherwise contrary to established legal principles in other parts of the world; and
- the termination of licences required to operate in the local market or the suspension of business relationships with governmental bodies.

If the application of the laws, rules, regulations and judicial precedents in any jurisdiction is susceptible to producing outcomes that are inconsistent, unexpected or contrary to established legal principles, this can create a more difficult environment in which JPMorgan Chase conducts its business and could negatively affect JPMorgan Chase's operations and reduce its earnings with respect to that jurisdiction. For example, JPMorgan Chase has faced actual and threatened litigation in Russia with respect to payments that JPMorgan Chase cannot make under, and is contractually excused from paying as a result of, relevant economic sanctions laws. That litigation has also resulted in the seizure of assets. In addition, conducting business in jurisdictions with less predictable legal and regulatory frameworks could require JPMorgan Chase to devote significant additional resources to understanding local laws, rules and regulations, as well as structuring its operations to comply with local laws, rules and regulations and implementing and administering related internal policies and procedures.

There can be no assurance that JPMorgan Chase will always be successful in its efforts to fully understand and to conduct its business in compliance with the laws, rules and regulations of all of the jurisdictions in which it operates, and the risk of non-compliance, or of interference with JPMorgan Chase's businesses, can be greater in jurisdictions that have less predictable legal and regulatory frameworks.

JPMorgan Chase's businesses may be negatively impacted by governmental policies that either discourage or penalise business with certain industries or require specific business practices.

JPMorgan Chase's businesses and results of operations may be adversely affected by actions or initiatives by national, state or local governmental authorities that:

- seek to discourage financial institutions from doing business with companies engaged in certain industries, or conversely, to penalise financial institutions that elect not to do business with such companies; or
- mandate specific business practices that companies operating in the relevant jurisdiction must adopt.

Because governmental policies in one jurisdiction may differ or conflict with those in other jurisdictions, JPMorgan Chase may face negative consequences regardless of the course of action it takes or elects not to take, including:

- restrictions or prohibitions on doing business within a particular jurisdiction, or with governmental entities in a jurisdiction;
- the threat of enforcement actions, including under antitrust or other anti-competition laws, rules and regulations; and
- harm to its reputation arising from public criticism, including from politicians, activists and other stakeholders.

JPMorgan Chase has been prohibited from engaging in certain business activities in specific jurisdictions as a result of these types of governmental actions, and there is no assurance that it will not face similar restrictions on its business and operations in the future.

Requirements for the orderly resolution of JPMorgan Chase could result in JPMorgan Chase having to restructure or reorganise its businesses and could increase its funding or operational costs or curtail its businesses.

JPMorgan Chase is required under Federal Reserve and FDIC rules to prepare and submit periodically to those agencies a detailed plan for rapid and orderly resolution in bankruptcy, without extraordinary government support, in the event of material financial distress or failure. The evaluation of JPMorgan Chase's resolution plan by these agencies may change, and the requirements for resolution plans may be modified from time to time. Any such determinations or modifications could result in JPMorgan Chase needing to make changes to its legal entity structure or to certain internal or external activities, which could increase its funding or operational costs, or hamper its ability to serve clients and customers.

If the Federal Reserve and the FDIC were both to determine that a resolution plan submitted by JPMorgan Chase has deficiencies, they could jointly impose more stringent capital, leverage or liquidity requirements or restrictions on JPMorgan Chase's growth, activities or operations. The agencies could also require that JPMorgan Chase restructure, reorganise or divest assets or businesses in ways that could materially and adversely affect JPMorgan Chase's operations and strategy.

Holders of JPMorgan Chase & Co.'s debt and equity securities will absorb losses if it were to enter into a resolution.

Federal Reserve rules require that JPMorgan Chase & Co. (the "**Parent Company**") maintain minimum levels of unsecured external long-term debt and other loss-absorbing capacity with specific terms ("**eligible LTD**") for purposes of recapitalising JPMorgan Chase's operating subsidiaries if the Parent Company were to enter into a resolution either:

- in a bankruptcy proceeding under Chapter 11 of the U.S. Bankruptcy Code; or
- in a receivership administered by the FDIC under Title II of the Dodd-Frank Act ("**Title II**").

If the Parent Company were to enter into a resolution, holders of eligible LTD, other unsecured creditors and holders of equity securities of the Parent Company will absorb the losses of the Parent Company and its subsidiaries.

The preferred "single point of entry" strategy under JPMorgan Chase's resolution plan contemplates that the Parent Company would enter bankruptcy proceedings and JPMorgan Chase's material subsidiaries would be recapitalised, as needed, so that they could continue normal operations or subsequently be divested or wound down in an orderly manner. As a result, the Parent Company's losses and any losses incurred by its subsidiaries would be imposed first on holders of the Parent Company's equity securities and thereafter on its unsecured creditors, including holders of eligible LTD. Claims of the Parent Company's shareholders and unsecured creditors would have a junior position to the claims of creditors of JPMorgan Chase's subsidiaries and to the claims of priority (as determined by statute) and secured creditors of the Parent Company.

Accordingly, in a resolution of the Parent Company in bankruptcy, unsecured creditors of the Parent Company, including holders of eligible LTD of the Parent Company, would realise value only to the extent available to the Parent Company as a shareholder of JPMorgan Chase Bank, N.A. and its other subsidiaries, and only after any claims of priority and secured creditors of the Parent Company have been fully repaid.

The FDIC has similarly indicated that a single point of entry recapitalisation model would be its expected strategy to resolve a systemically important financial institution, such as the Parent Company, under Title II. However, the FDIC has not formally adopted or committed to any specific resolution strategy.

If the Parent Company were to approach, or enter into, a resolution, none of the Parent Company, the Federal Reserve or the FDIC is obligated to follow JPMorgan Chase's preferred resolution strategy, and losses to unsecured creditors of the Parent Company, including holders of eligible

LTD, and to holders of equity securities of the Parent Company, under whatever strategy is ultimately followed, could be greater than they might have been under JPMorgan Chase's preferred strategy.

JPMorgan Chase faces significant legal risks from litigation and formal and informal regulatory and government investigations.

JPMorgan Chase is named as a defendant or is otherwise involved in many legal proceedings, including class actions, derivative actions and other litigation or disputes with third parties, as well as criminal proceedings. Actions currently pending against JPMorgan Chase may result in judgments, settlements, fines, penalties or other sanctions adverse to JPMorgan Chase. Any of these matters could materially and adversely affect JPMorgan Chase's business, financial condition or results of operations, or cause serious reputational harm. As a participant in the financial services industry, it is likely that JPMorgan Chase will continue to experience a high level of litigation and regulatory and government investigations related to its businesses and operations.

Regulators and other government agencies conduct examinations of JPMorgan Chase and its subsidiaries both on a routine basis and in targeted exams, and JPMorgan Chase's businesses and operations are subject to heightened regulatory oversight. This heightened regulatory scrutiny, or the results of such an investigation or examination, may lead to additional regulatory investigations or enforcement actions. There is no assurance that those actions will not result in resolutions or other enforcement actions against JPMorgan Chase. Furthermore, a single event involving a potential violation of law or regulation may give rise to numerous and overlapping investigations and proceedings, either by multiple federal, state or local agencies and officials in the U.S. or, in some instances, regulators and other governmental officials in non-U.S. jurisdictions.

In addition, if another financial institution violates a law or regulation relating to a particular business activity or practice, this will often give rise to an investigation by regulators and other governmental agencies of the same or similar activity or practice by JPMorgan Chase.

JPMorgan Chase could become subject to a significant regulatory investigation and be unable to disclose specific information concerning that investigation to the public if such a disclosure would violate JPMorgan Chase's obligations under applicable rules and regulations to maintain the confidentiality of confidential supervisory information, even if the resolution of that investigation could have a material adverse effect on JPMorgan Chase's business, operations, results or financial condition.

Regulatory investigations, examinations or other initiatives by U.S. and non-U.S. governmental authorities may subject JPMorgan Chase to judgments, settlements, fines, penalties or other sanctions, and may require JPMorgan Chase to restructure its operations and activities or to cease offering certain products or services. All of these potential outcomes could harm JPMorgan Chase's reputation or lead to higher operational costs, thereby reducing JPMorgan Chase's profitability, or result in collateral consequences. In addition, the extent of JPMorgan Chase's exposure to legal and regulatory matters can be unpredictable and could, in some cases, exceed the amount of reserves that JPMorgan Chase has established for those matters.

JPMorgan Chase Bank, N.A. is affected by the risks that affects its parent company.

JPMorgan Chase Bank, N.A. and its subsidiaries are also subject to each of the risks described herein, in addition to further risks. Risks that affect JPMorgan Chase can also affect JPMorgan Chase Bank, N.A. as there is substantial overlap in the businesses of JPMorgan Chase Bank, N.A. and JPMorgan Chase. Further, JPMorgan Chase Bank, N.A. can be negatively affected by risks and other events affecting JPMorgan Chase even where JPMorgan Chase Bank, N.A. is not directly affected. For example, where JPMorgan Chase's reputation is damaged, JPMorgan Chase Bank, N.A.'s reputation would likely also be damaged which could negatively affect JPMorgan Chase Bank, N.A.

Damage to JPMorgan Chase's reputation could harm its businesses.

Maintaining trust in JPMorgan Chase is critical to its ability to attract and retain clients, customers, investors and employees. Damage to JPMorgan Chase's reputation can therefore cause significant harm to JPMorgan Chase's business and prospects, and can arise from numerous sources, including:

- employee misconduct, including discriminatory behaviour or harassment with respect to clients, customers or employees, or actions that are contrary to JPMorgan Chase's goal of fostering an inclusive workplace;
- security breaches, including as a result of cyber-attacks;
- failure to safeguard client, customer or employee information;
- failure to manage risks associated with its client relationships, or with transactions or business activities in which JPMorgan Chase or its clients engage, including transactions or activities that may be unpopular among one or more constituencies;
- rapid and broad dissemination of misinformation and disinformation across the media landscape, including social networking sites;
- incorrect, biased or misleading results or content generated by artificial intelligence, leading to harmful outcomes, including discrimination in lending practices against vulnerable populations, fraud, manipulation of customers, privacy breaches or intellectual property infringement;
- deficiencies or perceived failures in managing ESG-related initiatives, including modifying or failing to meet publicly-announced targets;
- operational failures;
- litigation or regulatory fines, penalties or other sanctions;
- actions taken in executing regulatory and governmental requirements during a global or regional health emergency, spread of infectious disease, epidemic or pandemic;
- regulatory investigations or enforcement actions, or resolutions of these matters; and
- failure or perceived failure to comply with laws, rules or regulations by JPMorgan Chase or its clients, customers, counterparties or other parties, including newly-acquired businesses, companies in which JPMorgan Chase has made principal investments, parties to joint ventures with JPMorgan Chase, and vendors with which JPMorgan Chase does business.

Social and environmental activists have been targeting JPMorgan Chase and other financial services firms with public criticism concerning their business practices, including business relationships with clients that are engaged in certain sensitive industries, such as companies:

- whose products are or are perceived to be harmful to human health; or
- whose activities negatively affect or are perceived to negatively affect the environment, workers' rights or communities.

Activists have also taken actions intended to change or influence JPMorgan Chase's business practices with respect to ESG matters, including public protests at JPMorgan Chase's headquarters and other properties, and submitting specific ESG-related proposals for a vote by JPMorgan Chase's shareholders.

In addition, JPMorgan Chase has been and expects that it will continue to be criticised by activists, politicians and other members of the public concerning business practices or positions taken by JPMorgan Chase with respect to matters of public policy (such as diversity, equity and inclusion initiatives) or regarding transactions or other business or interactions between JPMorgan Chase and governmental or regulatory bodies. Furthermore, JPMorgan Chase's

relationships or ability to transact with clients and customers, and with governmental or regulatory bodies in jurisdictions in which JPMorgan Chase does business, could be adversely affected if its decisions with respect to doing business with companies in certain sensitive industries are perceived to harm those companies or to align with particular political viewpoints. The foregoing types of criticism can be more widespread during election years in various jurisdictions, and could have the effect of focusing attention on a company such as JPMorgan Chase as part of a wider public debate on public policy matters. Furthermore, JPMorgan Chase's participation in or association with certain environmental and social industry groups or initiatives could be viewed by activists or governmental authorities as boycotting or other discriminatory business behaviour.

These and other types of criticism and actions directed at JPMorgan Chase could potentially engender dissatisfaction among clients, customers, investors, employees, government officials and other stakeholders. In all of these cases, JPMorgan Chase's reputation and its business and results of operations could be harmed by:

- greater scrutiny from governmental or regulatory bodies, or further criticism from politicians and other members of the public, including in the form of governmental or regulatory investigations or litigation;
- unfavourable coverage or commentary in the media, including through social media campaigns;
- certain clients and customers ceasing doing business with JPMorgan Chase, and encouraging others to do so;
- impairment of JPMorgan Chase's ability to attract new clients and customers, to expand its relationships with existing clients and customers, or to hire or retain employees; or
- certain investors opting to divest from investments in securities of JPMorgan Chase.

Actions by the financial services industry generally or individuals in the industry can also affect JPMorgan Chase's reputation. For example, the reputation of the industry as a whole can be damaged by concerns that:

- consumers have been treated unfairly by a financial institution; or
- a financial institution has acted inappropriately with respect to the methods used to offer products to customers.

If JPMorgan Chase is perceived to have engaged in these types of behaviours, this could weaken its reputation among clients or customers, employees or other stakeholders.

Failure to effectively manage potential conflicts of interest or to satisfy fiduciary obligations can result in litigation and enforcement actions, as well as damage JPMorgan Chase's reputation.

JPMorgan Chase's ability to manage potential conflicts of interest is highly complex due to the broad range of its business activities which encompass a variety of transactions, obligations and interests with and among JPMorgan Chase's clients and customers. JPMorgan Chase can become subject to litigation, enforcement actions, and heightened regulatory scrutiny, and its reputation can be damaged, by the failure or perceived failure to:

- adequately address or appropriately disclose conflicts of interest, including potential conflicts of interest that may arise in connection with providing multiple products and services in, or having one or more investments related to, the same transaction;
- identify and address any conflict of interest that a third party with which it does business may have with respect to a transaction involving JPMorgan Chase;
- deliver appropriate standards of service and quality;

- treat clients and customers fairly and with the appropriate standard of care;
- use client and customer data responsibly and in a manner that meets legal requirements and regulatory expectations;
- provide fiduciary products or services in accordance with the applicable legal and regulatory standards; or
- handle or use confidential information of customers or clients appropriately and in compliance with applicable data protection and privacy laws, rules and regulations.

A failure or perceived failure to appropriately address conflicts of interest or fiduciary obligations could result in customer dissatisfaction, litigation and regulatory fines, penalties or other sanctions, and heightened regulatory scrutiny and enforcement actions, all of which can lead to lost revenue and higher operating costs and cause serious harm to JPMorgan Chase's reputation.

2. **Political and Country Risks**

Economic uncertainty or instability caused by political and geopolitical developments can negatively impact JPMorgan Chase's businesses.

Political developments in the U.S. and other countries can cause uncertainty in the economic environment and market conditions in which JPMorgan Chase operates its businesses. Certain governmental policy initiatives, as well as heightened geopolitical tensions, could significantly affect U.S. and global economic growth and cause higher volatility in the financial markets, including:

- monetary policies and actions taken by the Federal Reserve and other central banks or governmental authorities, including changes in interest rate levels and any sustained large-scale asset purchases or any suspension or reversal of those actions;
- fiscal policies, including with respect to taxation and spending;
- isolationist foreign policies;
- economic or financial sanctions;
- the implementation of tariffs and other protectionist trade policies;
- changes to immigration policies; or
- actions that the government takes or fails to take in response to the effects of health emergencies, the spread of infectious diseases, epidemics or pandemics.

These types of political developments, and uncertainty about the possible outcomes of these developments, could:

- erode investor or consumer confidence in the U.S. economy and financial markets, which could potentially undermine the status of the U.S. dollar as a safe haven currency;
- provoke retaliatory countermeasures by other countries and otherwise heighten tensions in regulatory, enforcement or diplomatic relations;
- increase the risk of targeted cyber-attacks;
- increase concerns about whether the U.S. government will be funded, and its outstanding debt serviced, at any particular time;
- result in periodic shutdowns of the U.S. government;

- influence investor perceptions concerning government support of certain sectors of the economy or the economy as a whole;
- influence monetary policy actions of the Federal Reserve to moderate the economic impact of political developments, including decisions on interest rate levels and asset purchases and sales;
- adversely affect the financial condition or credit ratings of clients and counterparties with which JPMorgan Chase does business; or
- cause JPMorgan Chase to refrain from engaging in business opportunities that it might otherwise pursue.

These factors could lead to:

- slower growth rates, rising inflation or recession;
- disruptions in labour markets;
- greater market volatility;
- a contraction of available credit and the widening of credit spreads;
- U.S. dollar currency fluctuations;
- lower investments in a particular country or sector of the economy;
- large-scale sales of government debt and other debt and equity securities;
- reduced commercial activity among trading partners or disruptions to supply chains; or
- the possible departure of a country from, or the dissolution or formation of, a political or economic alliance or treaty.

Under certain circumstances, such as geopolitically challenging situations in regions like Russia, the Middle East and China, these various risks could become highly correlated or combine in unprecedented ways.

Any of these potential outcomes could cause JPMorgan Chase to suffer losses on its market-making positions or in its investment portfolio, reduce its liquidity and capital levels, increase the allowance for credit losses or lead to higher net charge-offs, hamper its ability to deliver products and services to its clients and customers, and weaken its results of operations and financial condition or credit rating.

An outbreak or escalation of hostilities between countries or within a country or region could have a material adverse effect on the global economy and on JPMorgan Chase's businesses within the affected region or globally.

Aggressive actions by hostile governments or groups, including armed conflict or intensified cyber-attacks, could expand in unpredictable ways by drawing in other countries or escalating into full-scale war with potentially catastrophic consequences, particularly if one or more of the combatants possess nuclear weapons. Depending on the scope of the conflict, the hostilities could result in:

- worldwide economic disruption;
- heightened volatility in financial markets;
- severe declines in asset values, accompanied by widespread sell-offs of investments;
- sudden increases in prices in the energy and commodity markets or for certain safe haven currencies;

- substantial depreciation of local currencies, potentially leading to defaults by borrowers and counterparties in the affected region;
- disruption of global trade;
- diminished consumer, business and investor confidence;
- refugee and humanitarian crises; and
- new economic sanctions or other regulatory requirements, including those that introduce exceptional compliance challenges for multinational companies such as JPMorgan Chase.

Any of the above consequences could have significant negative effects on JPMorgan Chase's operations and earnings, both in the countries or regions directly affected by the hostilities or globally. Further, if the U.S. were to become directly involved in such a conflict, this could lead to a curtailment of any operations that JPMorgan Chase may have in the affected countries or region, as well as in any nation that is aligned against the U.S. in the hostilities. JPMorgan Chase could also experience more numerous and aggressive cyber-attacks launched by or under the sponsorship of one or more of the adversaries in such a conflict.

JPMorgan Chase's business and operations in certain countries can be adversely affected by local economic, political, regulatory and social factors.

Some of the countries in which JPMorgan Chase conducts business have economies or markets that are less developed and more volatile or may have political, legal and regulatory regimes that are less established or predictable than other countries in which JPMorgan Chase operates. In addition, in some jurisdictions in which JPMorgan Chase conducts business, the local economy and business activities are subject to substantial government influence or control. Some of these countries have in the past experienced economic disruptions, including:

- extreme currency fluctuations;
- high inflation;
- low or negative growth;
- defaults or reduced ability to service sovereign debt; and
- increased fraud or other misrepresentation of value.

The governments in these countries have sometimes reacted to these developments by imposing restrictive policies that adversely affect the local and regional business environment, such as:

- price, capital or exchange controls, including imposition of punitive transfer and convertibility restrictions or forced currency exchange;
- expropriation or nationalisation of assets, including client assets, or confiscation of property, including intellectual property; and
- changes in laws, rules and regulations.

The impact of these actions could be accentuated in trading markets that are smaller, less liquid and more volatile than more-developed markets. These types of government actions can negatively affect JPMorgan Chase's operations in the relevant country, either directly or by suppressing the business activities of local clients or multi-national clients that conduct business in the jurisdiction.

In addition, emerging markets countries, as well as more developed countries, have been susceptible to unfavourable social developments arising from poor economic conditions or governmental actions, including:

- widespread demonstrations, civil unrest or general strikes;
- crime and corruption;
- security and personal safety issues;
- an outbreak or escalation of hostilities, or other geopolitical instabilities;
- overthrow of incumbent governments;
- terrorist attacks; and
- other forms of internal discord.

These economic, political, regulatory and social developments have in the past resulted in, and in the future could lead to, conditions that can adversely affect JPMorgan Chase's operations in those countries and impair the revenues, growth and profitability of those operations. In addition, any of these events or circumstances in one country can affect JPMorgan Chase's operations and investments in another country or countries, including in the U.S.

3. **Market and Credit Risks**

Economic and market events and conditions can materially affect JPMorgan Chase's businesses and investment and market-making positions.

JPMorgan Chase's results of operations can be negatively affected by adverse changes in any of the following:

- investor, consumer and business sentiment;
- events that reduce confidence in the financial markets;
- inflation, deflation or recession;
- high unemployment or, conversely, a tightening labour market;
- the availability and cost of capital, liquidity and credit;
- levels and volatility of interest rates, credit spreads and market prices for currencies, debt and equity securities and commodities, as well as the duration of any such changes;
- the economic effects of an outbreak or escalation of war, hostilities, terrorism or other geopolitical instabilities, cyber-attacks, climate change, natural disasters, severe weather conditions, health emergencies, the spread of infectious diseases, epidemics or pandemics or other extraordinary events beyond JPMorgan Chase's control; and
- the state of the U.S. and global economies.

All of these are affected by global economic, market and political events and conditions, including monetary policies and actions taken by central banks or other governmental authorities, as well as by the regulatory environment.

In addition, JPMorgan Chase's investment portfolio and market-making businesses can suffer losses due to unanticipated market events, including:

- severe declines in asset values;
- unexpected credit events;
- unforeseen events or conditions that may cause previously uncorrelated factors to become correlated (and vice versa);

- the inability to effectively hedge risks related to market-making and investment portfolio positions; or
- other market risks that may not have been appropriately taken into account in the development, structuring or pricing of a financial instrument.

If JPMorgan Chase experiences significant losses in its investment portfolio or from market-making activities, this could reduce JPMorgan Chase's profitability and its liquidity and capital levels, and thereby constrain the growth of its businesses.

JPMorgan Chase's consumer businesses can be negatively affected by adverse economic conditions and governmental policies.

JPMorgan Chase's consumer businesses are particularly affected by U.S. and global economic conditions, including:

- personal and household income distribution;
- unemployment or underemployment;
- prolonged periods of exceptionally high or low interest rates, or significant changes to interest rates;
- changes in the value of collateral such as residential real estate and vehicles;
- changes in housing prices;
- the level of inflation and its effect on prices for goods and services;
- consumer and small business confidence levels; and
- changes in consumer spending or in the level of consumer debt.

Heightened levels of unemployment or underemployment that result in reduced personal and household income could negatively affect consumer credit performance to the extent that consumers are less able to service their debts. In addition, sustained low growth, low or negative interest rates, inflationary pressures or recessionary conditions could diminish customer demand for the products and services offered by JPMorgan Chase's consumer businesses.

Adverse economic conditions could also lead to an increase in delinquencies, additions to the allowance for credit losses and higher net charge-offs, which can reduce JPMorgan Chase's earnings. These consequences could be significantly worse in certain geographies, including where declining industrial or manufacturing activity has resulted in or could result in higher levels of unemployment, or where high levels of consumer debt, such as outstanding student loans, could impair the ability of customers to pay their other consumer loan obligations.

JPMorgan Chase's earnings from its consumer businesses could also be adversely affected by governmental policies and actions that affect consumers, including:

- policies and initiatives relating to medical insurance, education, immigration and housing, or that may impact employment status;
- laws, rules and regulations relating specifically to the financial services industry, such as limitations on late payment, overdraft and interchange fees; and
- policies aimed at the economy more broadly, such as higher taxes and increased regulation, which could result in reductions in consumer disposable income.

Unfavourable market and economic conditions can have an adverse effect on JPMorgan Chase's wholesale businesses.

In JPMorgan Chase's wholesale businesses, market and economic factors can affect the volume of transactions that JPMorgan Chase executes for its clients or for which it advises clients, and, therefore, the revenue that JPMorgan Chase receives from those transactions. These factors can also influence the willingness of other financial institutions and investors to participate in capital markets transactions that JPMorgan Chase manages, such as loan syndications or securities underwriting. Furthermore, if a significant and sustained deterioration in market conditions were to occur, the profitability of JPMorgan Chase's businesses engaged in capital markets activities, including loan syndication, securities underwriting and leveraged lending activities, could be reduced to the extent that those businesses:

- earn less fee revenue due to lower transaction volumes, including when clients are unwilling or unable to refinance their outstanding debt obligations in unfavourable market conditions; or
- dispose of portions of credit commitments at a loss, or hold larger residual positions in credit commitments that cannot be sold at favourable prices.

The fees that JPMorgan Chase earns from managing client assets or holding assets under custody for clients could be diminished by declining asset values or other adverse macroeconomic conditions. For example, higher interest rates or a downturn in financial markets could affect the valuation of client assets that JPMorgan Chase manages or holds under custody, which, in turn, could affect JPMorgan Chase's revenue from fees that are based on the amount of assets under management or custody. Similarly, adverse macroeconomic or market conditions could prompt outflows from JPMorgan Chase funds or accounts, or cause clients to invest in products that generate lower revenue. Substantial and unexpected withdrawals from a JPMorgan Chase fund can also hamper the investment performance of the fund, particularly if the outflows create the need for the fund to dispose of fund assets at disadvantageous times or prices, and could lead to further withdrawals based on the weaker investment performance.

An adverse change in market conditions in particular segments of the economy, such as a sudden and severe downturn in oil and gas prices or an increase in commodity prices, severe declines in commercial real estate values, or sustained changes in consumer behaviour that affect specific economic sectors, could have a material adverse effect on clients of JPMorgan Chase whose operations or financial condition are directly or indirectly dependent on the health or stability of those market segments or economic sectors, as well as clients that are engaged in related businesses. JPMorgan Chase could incur credit losses on its loans and other commitments to clients that operate in, or are dependent on, any sector of the economy that is or comes under stress.

An economic downturn or sustained changes in consumer behaviour that results in shifts in consumer and business spending could also have a negative impact on certain of JPMorgan Chase's wholesale clients, and thereby diminish JPMorgan Chase's earnings from its wholesale operations. For example, the businesses of certain of JPMorgan Chase's wholesale clients are dependent on consistent streams of rental income from commercial real estate properties, including offices, which are owned or being built by those clients. Sustained adverse economic conditions or hybrid work models could result in reductions in the rental cash flows that owners or developers receive from their tenants which, in turn, could depress the values of the properties, impair the ability of borrowers to service or refinance their commercial real estate loans and lead to an increase in foreclosures. These consequences could result in JPMorgan Chase experiencing increases in the allowance for credit losses, higher delinquencies, defaults and charge-offs within its commercial real estate loan portfolio and incurring higher costs for servicing a larger volume of delinquent loans in that portfolio. An increase in foreclosures could result in higher operational risk associated with JPMorgan Chase owning and managing real property, and any inadequacy in governance or control over the foreclosed properties could result in regulatory scrutiny and reputational harm.

Changes in interest rates and credit spreads can adversely affect JPMorgan Chase's earnings, its liquidity or its capital levels.

When interest rates are high or increasing, JPMorgan Chase can generally be expected to earn higher net interest income. However, higher interest rates can also lead to:

- fewer originations of commercial and residential real estate loans;
- losses on underwriting exposures or incremental client-specific downgrades, or increases in the allowance for credit losses and net charge-offs due to higher financing costs for clients;
- the loss of deposits, particularly if customers withdraw deposits because they believe that interest rates offered by JPMorgan Chase are lower than those of competitors or if JPMorgan Chase makes incorrect assumptions about depositor behaviour;
- losses on available-for-sale ("AFS") securities held in the investment securities portfolio;
- lower net interest income if central banks introduce interest rate increases more quickly than anticipated and this results in a misalignment in the pricing of short-term and long-term borrowings;
- less liquidity in the financial markets; and
- higher funding costs.

All of these outcomes could adversely affect JPMorgan Chase's earnings or its liquidity and capital levels, and any negative outcomes could be more severe in a prolonged period of high interest rates. Higher interest rates can also negatively affect the payment performance on loans within JPMorgan Chase's consumer and wholesale loan portfolios that are linked to variable interest rates. If borrowers of variable rate loans are unable to afford higher interest payments, those borrowers may reduce or stop making payments, thereby causing JPMorgan Chase to incur losses and increased operational costs related to servicing a higher volume of delinquent loans.

On the other hand, a low or negative interest rate environment may cause:

- net interest margins to be compressed, which could reduce the amounts that JPMorgan Chase earns on its investment securities portfolio to the extent that it is unable to reinvest contemporaneously in higher-yielding instruments;
- unanticipated or adverse changes in depositor behaviour, which could negatively affect JPMorgan Chase's broader asset and liability management strategy; and
- a reduction in the value of JPMorgan Chase's mortgage servicing rights ("MSRs") asset, resulting in decreased revenues.

When credit spreads widen, it becomes more expensive for JPMorgan Chase to borrow. JPMorgan Chase's credit spreads may widen or narrow not only in response to events and circumstances that are specific to JPMorgan Chase but also as a result of general economic and geopolitical events and conditions. Changes in JPMorgan Chase's credit spreads will affect, positively or negatively, JPMorgan Chase's earnings on certain liabilities, such as derivatives, that are recorded at fair value.

JPMorgan Chase's results may be materially affected by market fluctuations and significant changes in the valuation of financial instruments.

The value of securities, derivatives and other financial instruments which JPMorgan Chase owns or in which it makes markets can be materially affected by market fluctuations. Market volatility, illiquid market conditions and other disruptions in the financial markets may make it extremely difficult to value certain financial instruments. Subsequent valuations of financial instruments in future periods, in light of factors then prevailing, may result in significant changes in the value of these instruments. In addition, at the time of any disposition of these financial instruments, the price that JPMorgan Chase ultimately realises will depend on the demand and liquidity in the market at that time and may be materially lower than their current fair value. Any of these factors could cause a decline in the value of financial instruments that

JPMorgan Chase owns or in which it makes markets, which may have an adverse effect on JPMorgan Chase's results of operations.

JPMorgan Chase's risk management and monitoring processes, including its stress testing framework, seek to quantify and manage JPMorgan Chase's exposure to more extreme market moves. However, JPMorgan Chase's hedging and other risk management strategies may not be effective, and it could incur significant losses, if extreme market events were to occur.

JPMorgan Chase can be negatively affected by adverse changes in the financial condition of clients, counterparties, custodians and CCPs.

JPMorgan Chase routinely executes transactions with clients and counterparties such as corporations, financial institutions, asset managers, hedge funds, securities exchanges and government entities within and outside the U.S. Many of these transactions expose JPMorgan Chase to the credit risk of its clients and counterparties, and can involve JPMorgan Chase in disputes and litigation if a client or counterparty defaults. JPMorgan Chase can also be subject to losses or liability where a financial institution that it has appointed to provide custodial services for client assets or funds becomes insolvent as a result of fraud or the failure to abide by existing laws and obligations, or where clients are unable to access assets held by JPMorgan Chase as custodian due to governmental actions or other factors.

A default by, or the financial or operational failure of, a CCP through which JPMorgan Chase executes contracts would require JPMorgan Chase to replace those contracts, thereby increasing its operational costs and potentially resulting in losses. In addition, JPMorgan Chase can be exposed to losses if a member of a CCP in which JPMorgan Chase is also a member defaults on its obligations to the CCP because of requirements that each member of the CCP absorb a portion of those losses. Furthermore, JPMorgan Chase can be subject to bearing its share of non-default losses incurred by a CCP, including losses from custodial, settlement or investment activities or due to cyber or other security breaches.

As part of its clearing services activities, JPMorgan Chase is exposed to the risk of non-performance by its clients, which it seeks to mitigate by requiring clients to provide adequate collateral. JPMorgan Chase is also exposed to intra-day credit risk of its clients in connection with providing cash management, clearing, custodial and other transaction services to those clients. If a client for which JPMorgan Chase provides these services becomes bankrupt or insolvent, JPMorgan Chase may incur losses, become involved in disputes and litigation with one or more CCPs, the client's bankruptcy estate and other creditors, or be subject to regulatory investigations. All of the foregoing events can increase JPMorgan Chase's operational and litigation costs, and JPMorgan Chase may suffer losses to the extent that any collateral that it has received is insufficient to cover those losses.

Transactions with government entities, including national, state, provincial, municipal and local authorities, can expose JPMorgan Chase to enhanced sovereign, credit, operational and reputation risks. Government entities may, among other things, claim that actions taken by government officials were beyond the legal authority of those officials or repudiate transactions authorised by a previous incumbent government. These types of actions have in the past caused, and could in the future cause, JPMorgan Chase to suffer losses or hamper its ability to conduct business in the relevant jurisdiction.

In addition, local laws, rules and regulations could limit JPMorgan Chase's ability to resolve disputes and litigation in the event of a counterparty default or unwillingness to make previously agreed-upon payments, which could subject JPMorgan Chase to losses.

Disputes may arise with counterparties to derivatives contracts with regard to the terms, the settlement procedures or the value of underlying collateral. The disposition of those disputes could cause JPMorgan Chase to incur unexpected transaction, operational and legal costs, or result in credit losses. These consequences can also impair JPMorgan Chase's ability to effectively manage its credit risk exposure from its market activities, or cause harm to JPMorgan Chase's reputation.

The financial or operational failure of a significant market participant, such as a major financial institution or a CCP, or concerns about the creditworthiness of such a market participant or its ability to fulfil its obligations, can cause substantial and cascading disruption within the financial markets, including in circumstances where coordinated action by multiple other market participants is required to address the failure or disruption. JPMorgan Chase's businesses could be significantly disrupted by such an event, particularly if it leads to other market participants incurring significant losses, experiencing liquidity issues or defaulting, and JPMorgan Chase is likely to have significant interrelationships with, and credit exposure to, such a significant market participant.

JPMorgan Chase may suffer losses if the value of collateral declines in stressed market conditions.

During periods of market stress or illiquidity, JPMorgan Chase's credit risk may be further increased when:

- JPMorgan Chase fails to realise the estimated value of the collateral it holds;
- collateral is liquidated at prices that are not sufficient to recover the full amount owed to it; or
- counterparties are unable to post collateral, whether for operational or other reasons.

Furthermore, disputes with counterparties concerning the valuation of collateral may increase in times of significant market stress, volatility or illiquidity, and JPMorgan Chase could suffer losses during these periods if it is unable to realise the fair value of collateral or to manage declines in the value of collateral.

JPMorgan Chase could incur significant losses arising from concentrations of credit and market risk.

JPMorgan Chase is exposed to greater credit and market risk to the extent that groupings of its clients or counterparties, or obligors on securities and other financial instruments:

- engage in similar or related businesses, or in businesses in related industries;
- do business in the same geographic region; or
- have business profiles, models or strategies that could cause their ability to meet their obligations to be similarly affected by changes in economic conditions.

For example, a significant deterioration in the credit quality of a counterparty, borrower or other obligor could lead to concerns about the creditworthiness of other counterparties, borrowers or obligors in similar, related or dependent industries. This type of interrelationship could exacerbate JPMorgan Chase's credit, liquidity and market risk exposure and potentially cause it to incur losses, including fair value losses in its market-making businesses and investment portfolios. In addition, JPMorgan Chase may be required to increase the allowance for credit losses or establish other reserves with respect to certain clients, industries or country exposures in order to align with directives or expectations of its banking regulators.

Similarly, challenging economic conditions that affect a particular industry or geographic area could lead to concerns about the credit quality of counterparties, borrowers or other obligors not only in that particular industry or geography but in related or dependent industries, wherever located. These conditions could also heighten concerns about the ability of customers of JPMorgan Chase's consumer businesses who live in those areas or work in those affected industries or related or dependent industries to meet their obligations to JPMorgan Chase. JPMorgan Chase regularly monitors various segments of its credit and market risk exposures to assess the potential risks of concentration or contagion, but its ability to diversify or hedge its exposure against those risks may be limited.

JPMorgan Chase's consumer businesses can also be harmed by an excessive expansion of consumer credit by bank or non-bank competitors. Heightened competition for certain types of

consumer loans could prompt industry-wide reactions such as significant reductions in the pricing or margins of those loans or the making of loans to less-creditworthy borrowers. If large numbers of consumers subsequently default on their loans, whether due to weak credit profiles, an economic downturn or other factors, this could impair their ability to repay obligations owed to JPMorgan Chase and result in higher charge-offs and other credit-related losses. More broadly, widespread defaults on consumer debt could lead to recessionary conditions in the U.S. economy, and JPMorgan Chase's consumer businesses may earn lower revenues in such an environment.

If JPMorgan Chase is unable to reduce positions effectively during a market dislocation, this can increase both the market and credit risks associated with those positions and the level of risk-weighted-assets ("**RWA**") that JPMorgan Chase holds on its balance sheet. These factors could adversely affect JPMorgan Chase's capital position, funding costs and the profitability of its businesses.

4. **Liquidity and Capital Risks**

JPMorgan Chase's ability to operate its businesses could be impaired if its liquidity is constrained.

JPMorgan Chase's liquidity can be impacted at any given time as a result of factors such as:

- market-wide illiquidity or disruption;
- changes in liquidity or capital requirements resulting from changes in laws, rules and regulations, including those in response to economic effects of systemic events;
- actions taken by the U.S. government or by the Federal Reserve to reduce its balance sheet, which may reduce deposits held by JPMorgan Chase and other financial institutions;
- inability to sell assets, or to sell assets at favourable times or prices;
- default by a CCP or other significant market participant;
- unanticipated outflows of cash or collateral;
- unexpected loss of deposits or higher than anticipated draws on lending-related commitments; and
- lack of market or customer confidence in JPMorgan Chase or financial institutions in general.

A reduction in JPMorgan Chase's liquidity may be caused by events over which it has little or no control. For example, periods of market stress, low investor confidence and significant market illiquidity could result in higher funding costs for JPMorgan Chase and could limit its access to some of its traditional sources of liquidity.

JPMorgan Chase may need to raise funding from alternative sources if its access to stable and lower-cost sources of funding, such as deposits and borrowings from Federal Home Loan Banks, is reduced. Alternative sources of funding could be more expensive or limited in availability. JPMorgan Chase's funding costs could also be negatively affected by actions that JPMorgan Chase may take in order to:

- satisfy applicable liquidity coverage ratio and net stable funding ratio requirements;
- address obligations under its resolution plan; or
- satisfy regulatory requirements in jurisdictions outside the U.S. relating to the pre-positioning of liquidity in subsidiaries that are material legal entities.

More generally, if JPMorgan Chase fails to effectively manage its liquidity, this could constrain its ability to fund or invest in its businesses and subsidiaries, and thereby adversely affect its results of operations.

JPMorgan Chase & Co. is a holding company and depends on the cash flows of its subsidiaries to make payments on its outstanding securities.

JPMorgan Chase & Co. is a holding company that holds the stock of JPMorgan Chase Bank, N.A. and an intermediate holding company, JPMorgan Chase Holdings LLC (the "IHC"). The IHC in turn generally holds the stock of JPMorgan Chase's subsidiaries other than JPMorgan Chase Bank, N.A. and its subsidiaries. The IHC also owns other assets and provides intercompany lending to the Parent Company.

The Parent Company is obligated to contribute to the IHC substantially all the net proceeds received from securities issuances (including issuances of senior and subordinated debt securities and of preferred and common stock).

The ability of JPMorgan Chase Bank, N.A. and the IHC to make payments to the Parent Company is also limited. JPMorgan Chase Bank, N.A. is subject to regulatory restrictions on its dividend distributions, as well as capital adequacy requirements, such as the Supplementary Leverage Ratio ("SLR"), and liquidity requirements and other regulatory restrictions on its ability to make payments to the Parent Company. The IHC is prohibited from paying dividends or extending credit to the Parent Company if certain capital or liquidity thresholds are breached, or if limits are otherwise imposed by the Parent Company's management or Board of Directors.

As a result of these arrangements, the ability of the Parent Company to make various payments is dependent on its receiving dividends from JPMorgan Chase Bank, N.A. and dividends and borrowings from the IHC. These limitations could affect the Parent Company's ability to:

- pay interest on its debt securities;
- pay dividends on its equity securities;
- redeem or repurchase outstanding securities; and
- fulfil its other payment obligations.

These arrangements could also result in the Parent Company seeking protection under bankruptcy laws or otherwise entering into resolution proceedings at a time earlier than would have been the case absent the existence of the capital and liquidity thresholds to which JPMorgan Chase Bank, N.A. and the IHC are subject.

Reductions in JPMorgan Chase's credit ratings may adversely affect its liquidity and cost of funding.

JPMorgan Chase & Co. and certain of its principal subsidiaries are rated by credit rating agencies. Rating agencies evaluate general, firm-specific and industry-specific factors when determining credit ratings for a particular financial institution, including:

- expected future profitability;
- risk management practices;
- legal expenses;
- ratings differentials between bank holding companies and their bank and non-bank subsidiaries;
- regulatory developments;
- assumptions about government support; and

- economic and geopolitical developments.

JPMorgan Chase closely monitors and manages, to the extent that it is able, factors that could influence its credit ratings. However, there is no assurance that JPMorgan Chase's credit ratings will not be downgraded in the future. Furthermore, any such downgrade could occur at times of broader market instability when JPMorgan Chase's options for responding to events may be more limited and general investor confidence is low.

A reduction in JPMorgan Chase's credit ratings could curtail JPMorgan Chase's business activities and reduce its profitability in a number of ways, including:

- reducing its access to capital markets;
- materially increasing its cost of issuing and servicing securities;
- triggering additional collateral or funding requirements; and
- decreasing the number of investors and counterparties that are willing or permitted to do business with or lend to JPMorgan Chase.

Any rating reduction could also increase the credit spreads charged by the market for taking credit risk on JPMorgan Chase & Co. and its subsidiaries. This could, in turn, adversely affect the value of debt and other obligations of JPMorgan Chase & Co. and its subsidiaries.

Maintaining the required level and composition of capital may impact JPMorgan Chase's ability to support business activities, meet evolving regulatory requirements and distribute capital to shareholders.

JPMorgan Chase is subject to various regulatory capital requirements, including leverage- and risk-based capital requirements. In addition, as a Global Systemically Important Bank ("GSIB"), JPMorgan Chase is required to hold additional capital buffers, including a GSIB surcharge, a Stress Capital Buffer ("SCB"), and a countercyclical buffer, each of which is reassessed at least annually. The amount of capital that JPMorgan Chase is required to hold in order to satisfy these leverage- and risk-based requirements could increase at any given time due to factors such as:

- actions by banking regulators, including changes in laws, rules and regulations;
- changes in the composition of JPMorgan Chase's balance sheet or developments that could increase RWA, such as increased market risk, customer delinquencies, client credit rating downgrades or other factors; and
- increases in estimated stress losses as determined by the Federal Reserve under the Comprehensive Capital Analysis and Review, which could increase JPMorgan Chase's SCB.

Any failure by or inability of JPMorgan Chase to maintain the required level and composition of capital, or unfavourable changes in applicable capital requirements, could have an adverse impact on JPMorgan Chase's shareholders, such as:

- reducing the amount of common stock that JPMorgan Chase is permitted to repurchase;
- requiring the issuance of, or prohibiting the redemption of, capital instruments in a manner inconsistent with JPMorgan Chase's capital management strategy;
- constraining the amount of dividends that may be paid on common stock; or
- curtailing JPMorgan Chase's business activities or operations.

In 2023, U.S. banking regulators released a proposal to implement the final Basel III reforms which would have significantly revised the risk-based capital requirements for banks with assets of \$100 billion or more, including JPMorgan Chase. In addition, in 2023 the Federal Reserve

released a proposal to amend the calculation of the GSIB surcharge. Uncertainty remains regarding the content of the final versions of these rule proposals and how they might ultimately apply to JPMorgan Chase. However, it is possible that the final rules could impact JPMorgan Chase's decisions concerning the business activities in which it will engage and its levels of capital distributions to its shareholders.

5. **Operational, Strategic, Conduct and People Risks**

JPMorgan Chase's businesses are dependent on the effectiveness of internal and external operational systems.

JPMorgan Chase's businesses rely on the ability of JPMorgan Chase's financial, accounting, transaction execution, data processing and other operational systems, including devices supporting those systems, to process, record, monitor and report a large number of transactions on a continuous basis, and to do so accurately, quickly and securely. In addition to proper design, installation, maintenance and training, the effective functioning of JPMorgan Chase's operational systems depends on:

- the quality of the information contained in those systems, as inaccurate, outdated, incomplete or corrupted data can significantly compromise the functionality or reliability of a particular system and other systems to which it transmits or from which it receives information; and
- JPMorgan Chase's ability to continue to maintain and upgrade its systems on a regular and timely basis in line with technological advancements and evolving security requirements, maintain security and operational continuity of its systems, including by carefully managing any changes introduced to its systems, prevent unauthorised access and the misuse of access to its systems, and adhere to all applicable legal and regulatory requirements, particularly in regions where JPMorgan Chase may face a heightened risk of malicious activity.

JPMorgan Chase has experienced and expects that it will continue to experience failures and disruptions in the stability of its operational systems, including degraded performance of data processing systems, data quality issues, disruptions of network connectivity and malfunctioning software, as well as disruptions in its ability to access and use the operational systems of third parties and interruptions in service from third-party service providers. These incidents have resulted in various negative effects for customers, including the inability to access account information or transact through ATM, internet or mobile channels, the exfiltration of customer personal data, the recording of duplicative transactions and extended delays for customers requiring services from call centres. There can be no assurance that these and other types of operational failures or disruptions will not occur in the future.

JPMorgan Chase's ability to effectively manage the stability of its operational systems and infrastructure could be hindered by many factors, any of which could have a negative impact on JPMorgan Chase and its clients, customers and counterparties, including:

- JPMorgan Chase's ability to effectively maintain and upgrade systems and infrastructure can become more challenging as the speed, frequency, volume, interconnectivity and complexity of transactions continue to increase;
- attempts by third parties to defraud JPMorgan Chase or its clients and customers continue to increase, evolve and become more complex, and during periods of market disruption or economic uncertainty, these attempts can be expected to further increase in volume;
- errors made by JPMorgan Chase or another market participant, whether inadvertent or malicious, could cause widespread system disruption;
- failure to detect weaknesses or shortcomings in operational systems in a timely manner;
- isolated or seemingly insignificant errors in operational systems could compound, or migrate to other systems over time, to become larger issues;

- disruptions in operational systems or in the ability of systems to communicate with each other could be caused by failures in synchronisation or encryption software, or degraded performance of microprocessors; and
- attempts by third parties to block the use of key technology solutions by claiming that the use infringes on their intellectual property rights.

JPMorgan Chase also depends on its ability to access and use the operational systems of third parties, including its custodians, vendors (such as those that provide data and cloud computing services, and security and technology services) and other market participants (such as clearing and payment systems, CCPs and securities exchanges). These external operational systems with which JPMorgan is connected, whether directly or indirectly, can be sources of operational risk to JPMorgan Chase. JPMorgan Chase may be exposed not only to a systems failure or cyber-attack that may be experienced by a vendor or market infrastructure with which JPMorgan Chase is directly connected, but also to a systems breakdown or cyber-attack involving another party to which such a vendor or infrastructure is connected. Similarly, retailers, payment systems and processors, data aggregators and other external parties with which JPMorgan Chase's customers do business can increase JPMorgan Chase's operational risk. This is particularly the case where activities of customers or other parties are beyond JPMorgan Chase's security and control systems, including through the use of the internet, cloud computing services, and personal smart phones and other mobile devices or services.

If an external party obtains access to customer account data on JPMorgan Chase's systems, whether authorised or unauthorised, and that party misappropriates that data, this could result in negative outcomes for JPMorgan Chase and its clients and customers, including a heightened risk of fraudulent transactions using JPMorgan Chase's systems, losses from fraudulent transactions and reputational harm arising from the perception that JPMorgan Chase's systems may not be secure.

As JPMorgan Chase's interconnectivity with clients, customers and other external parties continues to expand, JPMorgan Chase increasingly faces the risk of operational failure or cyber-attacks with respect to the systems of those parties. Security breaches affecting JPMorgan Chase's clients or customers, or systems breakdowns or failures, security breaches or human error or misconduct affecting other external parties, may require JPMorgan Chase to take steps to protect the integrity of its own operational systems or to safeguard confidential information, including restricting the access of customers to their accounts. These actions can increase JPMorgan Chase's operational costs and potentially diminish customer satisfaction and confidence in JPMorgan Chase.

Furthermore, the widespread and expanding interconnectivity among financial institutions, clearing banks, CCPs, payments processors, financial technology companies, securities exchanges, clearing houses and other financial market infrastructures increases the risk that the disruption of an operational system involving one institution or entity, including due to a cyber-attack, may cause industry-wide operational disruptions that could materially affect JPMorgan Chase's ability to conduct business. In addition, the risks associated with the disruption of an operational system of a third party could be exacerbated to the extent that the services provided by that system are used by a significant number or proportion of market participants.

The ineffectiveness, failure or other disruption of operational systems upon which JPMorgan Chase depends, including due to a systems malfunction, cyber incident or other systems failure, could result in unfavourable ripple effects in the financial markets and for JPMorgan Chase and its clients and customers, including:

- delays or other disruptions in providing services, including the provision of liquidity or information to clients and customers;
- impairment of JPMorgan Chase's ability to execute transactions, including delays or failures in the confirmation or settlement of transactions or in obtaining access to funds or other assets required for settlement;

- the possibility that funds transfers, capital markets trades or other transactions are executed erroneously;
- financial losses, including due to loss-sharing requirements of CCPs, payment systems or other market infrastructures, or as possible restitution to clients and customers;
- higher operational costs associated with replacing services provided by a system that has experienced a failure or other disruption;
- limitations on JPMorgan Chase's ability to collect data needed for its business and operations;
- loss of confidence in the ability of JPMorgan Chase, or financial institutions generally, to protect against and withstand operational disruptions;
- dissatisfaction among JPMorgan Chase's clients or customers;
- significant exposure to litigation and regulatory fines, penalties or other sanctions; and
- harm to JPMorgan Chase's reputation.

If JPMorgan Chase's operational systems, or those of acquired businesses or of external parties on which JPMorgan Chase's businesses depend, are unable to meet the requirements of JPMorgan Chase's businesses and operations or bank regulatory standards, or if they fail or have other significant shortcomings, JPMorgan Chase could be materially and adversely affected.

A successful cyber-attack affecting JPMorgan Chase could cause significant harm to JPMorgan Chase and its clients and customers.

JPMorgan Chase experiences numerous cyber-attacks on its computer systems, software, networks and other technology assets on a daily basis from various actors, including groups acting on behalf of hostile countries, cyber-criminals, "hacktivists" (i.e., individuals or groups that use technology to promote a political agenda or social change) and others. These cyber-attacks can take many forms, including attempts to introduce computer viruses or malicious code, which are commonly referred to as "malware," into JPMorgan Chase's systems. These attacks are often designed to:

- obtain unauthorised access to JPMorgan Chase's systems or to confidential information belonging to JPMorgan Chase or its clients, customers, counterparties or employees;
- manipulate data;
- destroy data or systems with the aim of rendering services unavailable;
- disrupt, sabotage or degrade service on JPMorgan Chase's systems;
- steal money; or
- extort money through the use of so-called "ransomware".

JPMorgan Chase also experiences:

- distributed denial-of-service attacks intended to disrupt JPMorgan Chase's websites, including those that provide online banking and other services;
- a higher volume and complexity of cyber-attacks against the backdrop of heightened geopolitical tensions; and
- a high volume of disruptions to internet-based services used by JPMorgan Chase that are provided by third parties.

JPMorgan Chase has experienced security breaches due to cyber-attacks in the past, and it is inevitable that additional breaches will occur in the future. Any such breach could result in serious and harmful consequences for JPMorgan Chase or its clients and customers.

A principal reason that JPMorgan Chase cannot provide absolute security against cyber-attacks is that it may not always be possible to anticipate, detect or recognise threats to JPMorgan Chase's systems, or to implement effective preventive measures against all breaches due to evolving risks, including:

- the techniques used in cyber-attacks evolve frequently and increase in sophistication, and therefore may not be recognised until launched or may go undetected for extended periods;
- cyber-attacks can originate from a wide variety of sources, including JPMorgan Chase's own employees, cyber-criminals, hacktivists, groups linked to terrorist organisations or hostile nation-states that can sustain malicious activities for extended periods, or third parties whose objective is to disrupt the operations of financial institutions more generally;
- JPMorgan Chase does not have control over the cybersecurity of the systems of the large number of clients, customers, counterparties and third-party service providers with which it does business; and
- it is possible that a third party, after establishing a foothold on an internal network without being detected, may gain access to other networks and systems.

The risk of a security breach due to a cyber-attack could increase in the future due to factors such as:

- JPMorgan Chase's ongoing expansion of its digital banking and other internet-based product offerings and its internal use of internet-based products and applications, including those that use cloud computing services;
- advances in artificial intelligence, such as the use of machine learning, generative artificial intelligence and quantum computing by malicious actors to develop more advanced social engineering attacks, including targeted phishing attacks;
- the inability to maintain the security of information transmitted by JPMorgan Chase due to advances in quantum computing that may counteract or nullify existing information protections; and
- the acquisition and integration of new businesses.

In addition, a third party could misappropriate confidential information obtained by intercepting signals or communications from mobile devices used by JPMorgan Chase's employees.

The dynamic nature of the cyber threat landscape, including the pace of innovation and increased threat of novel attack methods, necessitates ongoing investment in, as well as enhancement and adaptation of, cybersecurity controls, including the adoption of enhanced security measures in certain jurisdictions. Failure to discover or address emerging threats, known vulnerabilities or shortcomings in cybersecurity controls, or to prioritise or complete enhancements to address them, in each case in a timely manner, may leave JPMorgan Chase vulnerable to cyber-attacks, potentially resulting in data breaches, financial losses, reputational damage and regulatory penalties, including the failure to prioritise or complete enhancements relating to:

- preventing unauthorised access and protecting against the misuse of access, including the maintenance and enhancement of controls related to secure software development practices and identity and access management, such as those relating to the management of administrative access to systems;

- detecting, escalating and addressing effectively and in a timely manner any vulnerabilities that may be present either in internally-developed software or externally-provided software or services, including vulnerabilities that could allow attackers to exploit unknown security flaws in software and hardware ("zero-day vulnerabilities");
- oversight of third-party vendors and early detection of attacks against those vendors, including ransomware attacks and attacks targeting vulnerabilities in third-party open-source software, in support of the secure development and maintenance of internal systems;
- maintaining and enhancing controls related to technology asset management and inventory systems to prevent the risk of undetected vulnerabilities that could undermine JPMorgan Chase's ability to operate an effective control process;
- upgrading the coverage and capabilities of systems and controls to protect JPMorgan Chase and its clients and customers from the impact of distributed denial-of-service attacks, or to recover from outages that could be caused by a malware or ransomware attack;
- the continuing migration of client-facing services to the cloud, and modernisation of those services;
- strengthening network security and managing outbound connections to reduce the risk of data loss;
- identifying, assessing and mitigating insider threat activities that could lead to the misuse of JPMorgan Chase's systems or client and customer information; and
- integrating acquired businesses where system integration may be complex or may require extensive and lengthy remediation or enhancement of controls.

A successful penetration or circumvention of the security of JPMorgan Chase's systems or the systems of a vendor, governmental body or another market participant could cause serious negative consequences, including:

- significant disruption of JPMorgan Chase's operations and those of its clients, customers and counterparties, including losing access to operational systems;
- misappropriation of confidential information of JPMorgan Chase or that of its clients, customers, counterparties, employees or regulators;
- disruption of or damage to JPMorgan Chase's systems and those of its clients, customers and counterparties;
- the inability, or extended delays in the ability, to fully recover and restore data that has been stolen, manipulated or destroyed, or the inability to prevent systems from processing fraudulent transactions;
- demands that JPMorgan Chase pay a ransom to a malicious actor that has perpetrated a cybersecurity breach;
- unintended violations by JPMorgan Chase of applicable privacy and other laws;
- financial loss to JPMorgan Chase or to its clients, customers, counterparties or employees;
- losses to JPMorgan Chase in excess of cyber insurance policy coverage;
- loss of confidence in JPMorgan Chase's cybersecurity and business resiliency measures;
- dissatisfaction among JPMorgan Chase's clients, customers or counterparties;

- significant exposure to litigation and regulatory fines, penalties or other sanctions; and
- harm to JPMorgan Chase's reputation.

The extent of a particular cyber-attack, the methods and tools used by various actors, and the steps that JPMorgan Chase may need to take to investigate the attack may not be immediately clear, and it may take a significant amount of time before such an investigation can be completed. While such an investigation is ongoing, JPMorgan Chase may not necessarily know the full extent of the harm caused by the cyber-attack, and that damage may continue to spread. These factors may inhibit JPMorgan Chase's ability to provide rapid, full and reliable information about the cyber-attack to its clients, customers, counterparties and regulators, as well as the public. Furthermore, it may not be clear how best to contain and remediate the harm caused by the cyber-attack, and certain errors or actions could be repeated or compounded before they are discovered and remediated. Any or all of these factors could further increase the costs and consequences of a cyber-attack.

JPMorgan Chase can be negatively affected if it fails to identify and address operational risks associated with the introduction of or changes to products, services and delivery platforms or the adoption of new technologies.

When JPMorgan Chase launches a new product or service, introduces a new platform for the delivery or distribution of products or services (including mobile connectivity, electronic trading and cloud computing), acquires or invests in a business, makes changes to an existing product, service or delivery platform, or adopts a new technology, it may not fully appreciate or identify new operational risks that may arise from those changes, including increased reliance on third party providers, or may fail to implement adequate controls to mitigate the risks associated with those changes. Any significant failure in this regard could diminish JPMorgan Chase's ability to operate one or more of its businesses or result in:

- potential liability to clients, counterparties and customers;
- higher compliance, operational or integration costs;
- higher litigation costs, including regulatory fines, penalties and other sanctions;
- damage to JPMorgan Chase's reputation;
- impairment of JPMorgan Chase's liquidity;
- regulatory intervention; or
- weaker competitive standing.

Any of the foregoing consequences could materially and adversely affect JPMorgan Chase's businesses and results of operations.

JPMorgan Chase's business and operations rely on its ability, and the ability of key external parties, to maintain appropriately-staffed workforces, and on the competence, trustworthiness, health and safety of employees.

JPMorgan Chase's ability to operate its businesses efficiently and profitably, to offer products and services that meet the expectations of its clients and customers, and to maintain an effective risk management framework is highly dependent on its ability to staff its operations appropriately and on the competence, trustworthiness, health and safety of its employees. JPMorgan Chase's businesses and operations similarly rely on the workforces of third parties, including employees of vendors, custodians and financial markets infrastructures, and of businesses that it may seek to acquire. JPMorgan Chase's businesses could be materially and adversely affected by:

- the ineffective implementation of business decisions;

- any failure to institute controls that appropriately address risks associated with business activities, or to appropriately train employees with respect to those risks and controls;
- staffing shortages, particularly in tight labour markets;
- the possibility that significant portions of JPMorgan Chase's workforce are unable to work effectively, including because of illness, quarantines, shelter-in-place arrangements, government actions or other restrictions in connection with health emergencies, the spread of infectious diseases, epidemics or pandemics, or due to extraordinary events beyond JPMorgan Chase's control such as natural disasters or an outbreak or escalation of hostilities;
- a significant operational breakdown or failure, theft, fraud or other unlawful conduct; or
- other negative outcomes caused by human error or misconduct by an employee of JPMorgan Chase or of another party on which JPMorgan Chase's businesses or operations rely.

JPMorgan Chase's operations could also be impaired if the measures taken by it or by governmental authorities to protect the health and safety of its employees are ineffective, or if any external party on which JPMorgan Chase relies fails to take appropriate and effective actions to protect the health and safety of its employees.

JPMorgan Chase faces substantial legal and operational risks in the processing and safeguarding of personal information.

JPMorgan Chase's businesses and operations are subject to complex and evolving laws, rules and regulations, both within and outside the U.S., governing the privacy and protection of personal information of individuals. Governmental authorities around the world have adopted and are considering the adoption of numerous legislative and regulatory initiatives concerning privacy, data protection and security. Litigation or enforcement actions relating to these laws, rules and regulations could result in fines or orders requiring that JPMorgan Chase change its data-related practices, which could have an adverse effect on JPMorgan Chase's ability to provide products and otherwise harm its business operations.

Implementing processes relating to JPMorgan Chase's collection, use, sharing and storage of personal information to comply with all applicable laws, rules and regulations in all relevant jurisdictions, including where the laws of different jurisdictions are in conflict, can:

- increase JPMorgan Chase's compliance and operating costs;
- hinder the development of new products or services, curtail the offering of existing products or services, or affect how products and services are offered to clients and customers;
- demand significant oversight by JPMorgan Chase's management; and
- require JPMorgan Chase to structure its businesses, operations and systems in less efficient ways.

Not all of JPMorgan Chase's clients, customers, vendors, counterparties and other external parties may have appropriate controls in place to protect the confidentiality, integrity or availability of the information exchanged between them and JPMorgan Chase, particularly where information is transmitted by electronic means. JPMorgan Chase could be exposed to litigation or regulatory fines, penalties or other sanctions if personal information of clients, customers, employees or others were to be mishandled or misused, such as situations where such information is:

- erroneously provided to parties who are not permitted to have the information; or
- intercepted or otherwise compromised by unauthorised third parties.

The increasing sophistication of artificial intelligence technologies poses a greater risk of identity fraud, as malicious actors may exploit artificial intelligence to create convincing false identities or manipulate verification processes. This challenge necessitates ongoing enhancements to client verification systems and security protocols to prevent unauthorised access and protect sensitive client information. Failure to manage these risks or to implement effective countermeasures could lead to unauthorised transactions, financial losses, reputational damage and increased regulatory scrutiny.

Concerns regarding the effectiveness of JPMorgan Chase's measures to safeguard personal information, or the perception that those measures are inadequate, could cause JPMorgan Chase to lose existing or potential clients and customers or employees, and thereby reduce JPMorgan Chase's revenues. Furthermore, any failure or perceived failure by JPMorgan Chase to comply with applicable privacy or data protection laws, rules and regulations, or any failure to appropriately calibrate, manage and monitor access by employees or third parties to personal information, could subject JPMorgan Chase to inquiries, examinations and investigations that could result in requirements to modify or cease certain operations or practices, significant liabilities or regulatory fines, penalties or other sanctions. Any of these could damage JPMorgan Chase's reputation and otherwise adversely affect its businesses.

In recent years, well-publicised incidents involving the inappropriate collection, use, sharing or storage of personal information have led to expanded governmental scrutiny of practices relating to the processing or safeguarding of personal information by companies in the U.S. and other countries. That scrutiny has in some cases resulted in, and could in the future lead to, the adoption of stricter laws, rules and regulations relating to the collection, use, sharing and storage of personal information. These types of laws, rules and regulations can prohibit or significantly restrict financial services firms such as JPMorgan Chase from transferring information across national borders or sharing information among affiliates or with third parties such as vendors, thereby increase compliance costs and operational risk, or restrict JPMorgan Chase's use of personal information when developing or offering products or services to customers. Some countries are considering or have adopted legislation implementing data protection requirements or requiring local storage and processing of data which could increase the cost and complexity of JPMorgan Chase's delivery of products and services. These restrictions could also inhibit JPMorgan Chase's development or marketing of certain products or services, or increase the costs of offering them to customers.

JPMorgan Chase's operations, results and reputation could be harmed by occurrences of extraordinary events beyond its control.

JPMorgan Chase's business and operational systems could be seriously disrupted, and its reputation could be harmed, by events or contributing factors that are wholly or partially beyond its control, including material instances of:

- cyber-attacks;
- security breaches of its physical premises, including threats to health and safety;
- power, telecommunications or internet outages, or shutdowns of mass transit;
- failure of, or loss of access to, technology or operational systems, including any resulting loss of critical data;
- interruption of service from third-party service providers;
- damage to or loss of property or assets of JPMorgan Chase or third parties, and any consequent injuries, including in connection with any construction projects undertaken by JPMorgan Chase;
- effects of climate change;
- natural disasters or severe weather conditions;

- accidents such as explosions or structural failures;
- health emergencies, the spread of infectious diseases, epidemics or pandemics; or
- events arising from local or larger-scale civil or political unrest, any outbreak or escalation of hostilities, or terrorist acts.

JPMorgan Chase operates a firmwide resiliency framework that is intended to enable it to prepare for and adapt to changing conditions and withstand and recover from, and address any adverse effects on its operations caused by, disruptions that may impact critical business functions and supporting assets, including its staff, technology, data and facilities and those of third-party service providers.

Although not every form of disruption can be anticipated or defended against, JPMorgan Chase strives for resiliency or recovery in a range of scenarios in the event of a disruption, including due to the occurrence of an extraordinary event beyond its control. There can be no assurance that JPMorgan Chase's firmwide resiliency framework will fully mitigate all potential resiliency risks to JPMorgan Chase, its clients, and customers and third parties with which it does business, or that its resiliency framework will be adequate to address the effects of simultaneous occurrences of multiple or extended disruption events. In addition, JPMorgan Chase's ability to respond effectively to a disruption event could be hampered to the extent that the members of its workforce, physical assets, systems and other support infrastructure, or those of its third-party service providers, that are needed to address the event are geographically dispersed, or conversely, if such an event were to occur in an area in which they are concentrated. Further, should extraordinary events or the factors that cause or contribute to those events become more chronic, the disruptive effects of those events on JPMorgan Chase's business and operations, and on its clients, customers, counterparties and employees, could become more significant and long-lasting.

Any significant failure or disruption of JPMorgan Chase's operations or operational systems, or the occurrence of one or more extraordinary events that are beyond its control, could:

- hinder JPMorgan Chase's ability to provide services to its clients and customers or to transact with its counterparties;
- require it to expend significant resources to correct the failure or disruption or to address the event;
- cause it to incur losses or liabilities, including from loss of revenue, damage to or loss of property, or injuries;
- disrupt market infrastructure systems on which JPMorgan Chase's businesses rely;
- expose it to litigation or regulatory fines, penalties or other sanctions; and
- harm its reputation.

The occurrence of one or more extraordinary events could also negatively impact the financial condition or creditworthiness of JPMorgan Chase's clients and customers, and could lead to an increase in delinquencies, additions to the allowance for credit losses and higher net charge-offs, which can reduce JPMorgan Chase's earnings.

Data quality is essential to JPMorgan Chase's business and operations, and if JPMorgan Chase fails to maintain adequate data management processes, this could adversely affect its ability to effectively manage its businesses, comply with applicable laws, rules and regulations, or remain competitive.

JPMorgan Chase relies on accurate, timely and complete data to effectively operate its systems and processes, including:

- assessing risk exposures and limits;

- monitoring and detecting fraudulent transactions and cyber threats;
- developing or maintaining models and other analytical and judgment-based estimations, including those that use machine learning or artificial intelligence;
- implementing and maintaining compliance programs; and
- preparing financial statements, disclosures and regulatory reports, as well as internal reporting.

Any deficiencies in JPMorgan Chase's data management processes, including with respect to the accuracy or completeness of data, the timeliness of data collection, the analysis or validation of data, or the safeguarding of data could undermine the reliability and effectiveness of its operations, including:

- risk management practices, including inaccurate or untimely risk reporting;
- delivery of regulatory reporting or internal or external financial reporting;
- compliance practices, such as those relating to transaction monitoring, customer screening, blocking and rejecting transactions, recordkeeping or reporting;
- business activities, such as those related to managing JPMorgan Chase's market-making positions and liquidity and capital levels, including reliance on timely data for informed decision-making;
- providing services to clients and customers, including transaction processing, lending services, account management and customer support; or
- fraud detection and prevention processes.

Any or all of these factors could impair the ability of JPMorgan Chase to make sound business decisions, cause it to incur higher operational and compliance costs, result in operational breakdowns or failure to meet its regulatory requirements, negatively affect clients and customers, or lead to reputational harm.

Enhanced regulatory and other standards for the oversight of vendors and other service providers can result in higher costs and other potential exposures.

JPMorgan Chase must comply with enhanced regulatory and other standards associated with doing business with vendors and other service providers, including standards relating to the outsourcing of functions as well as the performance of significant banking and other functions by subsidiaries. JPMorgan Chase incurs significant costs and expenses in connection with its initiatives to address the risks associated with oversight of its internal and external service providers. JPMorgan Chase's failure to appropriately assess and manage these relationships, especially those involving significant banking functions, shared services or other critical activities, could materially adversely affect JPMorgan Chase. Specifically, any such failure could result in:

- potential harm to clients and customers, and any liability associated with that harm;
- regulatory fines, penalties or other sanctions;
- lower revenues, and the opportunity cost from lost revenues;
- increased operational costs; or
- harm to JPMorgan Chase's reputation.

JPMorgan Chase's risk management framework and control environment will not be effective in identifying and mitigating every risk to JPMorgan Chase.

Any inadequacy or lapse in JPMorgan Chase's risk management framework, governance structure, practices, models or reporting systems, or in its control environment, could expose it to unexpected losses, and its financial condition or results of operations could be materially and adversely affected. Any such inadequacy or lapse could:

- hinder the timely escalation of material risk issues to JPMorgan Chase's senior management and Board of Directors;
- lead to business decisions that have negative outcomes for JPMorgan Chase;
- require significant resources and time to remediate;
- lead to non-compliance with laws, rules and regulations;
- attract heightened regulatory scrutiny;
- expose JPMorgan Chase to litigation, regulatory investigations or regulatory fines, penalties or other sanctions;
- lead to potential harm to customers and clients, and any liability associated with that harm;
- harm its reputation; or
- otherwise diminish confidence in JPMorgan Chase.

Many of JPMorgan Chase's risk management strategies and techniques consider historical market behaviour and to some degree are based on management's subjective judgment or assumptions. For example, many models used by JPMorgan Chase are based on assumptions regarding historical correlations among prices of various asset classes or other market indicators. In times of market stress, including difficult or less liquid market environments, or in the event of other unforeseen circumstances, previously uncorrelated indicators may become correlated. Conversely, previously-correlated indicators may become uncorrelated at those times. Sudden market movements and unanticipated market or economic events could, in some circumstances, limit the effectiveness of JPMorgan Chase's risk management strategies, causing it to incur losses.

JPMorgan Chase could recognise unexpected losses, its capital levels could be reduced and it could face greater regulatory scrutiny if its models, estimations or judgments, including those used in its financial statements, are inadequate or incorrect.

JPMorgan Chase has developed and uses a variety of models and other analytical and judgment-based estimations to measure, monitor and implement controls over its market, credit, capital, liquidity, operational and other risks. JPMorgan Chase also uses internal models and estimations as a basis for its stress testing and in connection with the preparation of its financial statements under U.S. generally accepted accounting principles ("U.S. GAAP").

These models and estimations are based on a variety of assumptions and historical trends, and are periodically reviewed and modified as necessary. The models and estimations that JPMorgan Chase uses, including those that use machine learning or artificial intelligence, may not be effective in all cases to identify, observe and mitigate risk due to a variety of factors, such as:

- reliance on historical trends that may not persist in the future, including assumptions underlying the models and estimations such as correlations among certain market indicators or asset prices;
- inherent limitations associated with forecasting uncertain economic and financial outcomes;
- historical trend information may be incomplete, or may not be indicative of severely negative market conditions such as extreme volatility, dislocation or lack of liquidity;

- sudden illiquidity in markets or declines in prices of certain loans and securities may make it more difficult to value certain financial instruments;
- technology that is introduced to run models or estimations may not perform as expected, or may not be well understood by the personnel using the technology;
- models and estimations may contain erroneous data, valuations, formulas or algorithms;
- review processes may fail to detect flaws in models and estimations; and
- models may inadvertently incorporate biases present in data used in the models.

JPMorgan Chase may experience unexpected losses if models, estimates or judgments used or applied in connection with its risk management activities or the preparation of its financial statements are inadequate or incorrect. For example, where quoted market prices are not available for certain financial instruments that require a determination of their fair value, JPMorgan Chase may make fair value determinations based on internally developed models or other means which ultimately rely to some degree on management estimates and judgment. In addition, JPMorgan Chase may experience increased uncertainty in its estimates if assets acquired differ from those used to develop those models, which may lead to unexpected losses.

Similarly, JPMorgan Chase establishes an allowance for expected credit losses related to its credit exposures which requires significant judgments, including forecasts of how macroeconomic conditions might impair the ability of JPMorgan Chase's clients and customers to repay their loans or other obligations. These types of estimates and judgments may not prove to be accurate due to a variety of factors, including when the current and forecasted environments are significantly different from the historical environments upon which the models were developed. The increased uncertainty may necessitate a greater degree of judgment and analytics to inform any adjustments that JPMorgan Chase may make to model outputs than would otherwise be the case.

Some of the models and other analytical and judgment-based estimations used by JPMorgan Chase in managing risks are subject to review by, and require the approval of, JPMorgan Chase's regulators. These reviews are required before JPMorgan Chase may use those models and estimations for calculating market risk RWA, credit risk RWA and operational risk RWA under Basel III. If JPMorgan Chase's models or estimations are not approved by its regulators, it may be subject to higher capital charges, which could adversely affect its financial results or limit the ability to expand its businesses.

Lapses, weaknesses or deficiencies in controls over disclosure or financial reporting could materially affect JPMorgan Chase's profitability or reputation.

JPMorgan Chase's businesses and operations are subject to complex and evolving laws, rules and regulations, both within and outside the U.S., requiring continuous enhancements to various disclosures in its financial statements and regulatory reports.

There can be no assurance that JPMorgan Chase's disclosure controls and procedures will be effective in every circumstance, or that a material weakness or significant deficiency in internal control over financial reporting will not occur. Any such lapse, weakness or deficiency could result in inaccurate financial reporting which, in turn, could:

- materially and adversely affect JPMorgan Chase's business and results of operations or financial condition;
- restrict its ability to access the capital markets;
- require it to expend significant resources to correct the lapse, weakness or deficiency;
- expose it to litigation or regulatory fines, penalties or other sanctions;
- harm its reputation; or

- otherwise diminish investor confidence in JPMorgan Chase.

JPMorgan Chase's results or competitive standing could suffer if its management fails to develop and execute effective business strategies, and to anticipate changes affecting those strategies.

The development and execution of effective business strategies by JPMorgan Chase's management, along with the ability to anticipate and respond to shifts in the competitive environment, are critical to JPMorgan Chase's competitive standing and to achieving its strategic objectives. These strategies relate to:

- the products and services that JPMorgan Chase offers;
- the geographies in which it operates;
- the types of clients and customers that it serves;
- the businesses that it acquires or in which it invests;
- the counterparties with which it does business;
- the technologies that it adopts or in which it invests, which may include new and currently unproven technologies; and
- the methods, distribution channels and third party service providers by or through which it offers products and services.

If management makes choices about these strategies and goals that prove to be incorrect, are based on incomplete, inaccurate or fraudulent information, do not accurately assess the competitive landscape and industry trends, or fail to address changing regulatory and market environments or the expectations of clients, customers, investors, employees and other stakeholders, then the franchise values and growth prospects of JPMorgan Chase's businesses may suffer and its earnings could decline.

JPMorgan Chase's growth prospects also depend on management's ability to develop and execute effective business plans to address these strategic priorities, both in the near term and over longer time horizons. Management's effectiveness in this regard will affect JPMorgan Chase's ability to develop and enhance its resources, control expenses and return capital to shareholders. Each of these objectives could be adversely affected by any failure on the part of management to:

- devise effective business plans and strategies;
- offer products and services that meet changing expectations of clients and customers;
- allocate capital in a manner that promotes long-term stability to enable JPMorgan Chase to build and invest in market-leading businesses, even in a highly stressed environment;
- allocate capital appropriately due to imprecise modelling or subjective judgments made in connection with those allocations;
- appropriately assess and monitor principal investments made to enhance or accelerate JPMorgan Chase's business strategies;
- conduct appropriate due diligence on prospective business acquisitions or investments, or effectively integrate newly-acquired businesses;
- appropriately address concerns of clients, customers, investors, employees and other stakeholders, including with respect to climate and other ESG matters;
- react quickly to changes in market conditions or market structures; or

- develop and enhance the operational, technology, risk, financial and managerial resources and capabilities necessary to grow and manage JPMorgan Chase's businesses.

Furthermore, JPMorgan Chase may incur costs in connection with disposing of excess properties, premises and facilities, and those costs could be material to its results of operations.

JPMorgan Chase faces significant and increasing competition in the rapidly evolving financial services industry.

JPMorgan Chase operates in a highly competitive environment in which it must evolve and adapt to changes in financial regulation, technological advances, increased public scrutiny and changes in economic conditions. JPMorgan Chase expects that competition in the U.S. and global financial services industry will continue to be intense. Competitors include:

- other banks and financial institutions;
- trading, advisory and investment management firms;
- finance companies;
- technology companies; and
- other non-bank firms that are engaged in providing similar as well as new products and services.

JPMorgan Chase cannot provide assurance that the significant competition in the financial services industry will not materially and adversely affect its future results of operations. For example, aggressive or less disciplined lending practices by non-bank competitors could lead to a loss of market share for traditional banks, and in an economic downturn could result in instability in the financial services industry and adversely impact other market participants, including JPMorgan Chase.

New competitors in the financial services industry continue to emerge. For example, technological advances and the growth of e-commerce have made it possible for non-depository institutions to offer products and services that traditionally were banking products. These advances have also allowed financial institutions and other companies to provide electronic and internet-based financial solutions, including electronic securities and cryptocurrency trading, lending and other extensions of credit to consumers, payments processing and online automated algorithmic-based investment advice. Furthermore, both financial institutions and their non-banking competitors face the risk that payments processing and other products and services, including deposits and other traditional banking products, could be significantly disrupted by the use of new technologies, such as cryptocurrencies and other applications using secure distributed ledgers, that may not require intermediation. New technologies have required and could require JPMorgan Chase to spend more to modify or adapt its products to attract and retain clients and customers or to match products and services offered by its competitors, including technology companies. In addition, new technologies may be used by customers, or breached or infiltrated by third parties, in unexpected ways, which can increase JPMorgan Chase's costs for complying with laws, rules and regulations that apply to the offering of products and services through those technologies and reduce the income that JPMorgan Chase earns from providing products and services through those technologies.

Ongoing or increased competition may put pressure on the pricing for JPMorgan Chase's products and services or may cause JPMorgan Chase to lose market share, particularly with respect to traditional banking products. This competition may be based on quality and variety of products and services offered, transaction execution, innovation, reputation and price. The failure of any of JPMorgan Chase's businesses to meet the expectations of clients and customers, whether due to general market conditions, under-performance, a decision not to offer a particular product or service, changes in client and customer expectations or other factors, could affect JPMorgan Chase's ability to attract or retain clients and customers. Any such impact could, in turn, reduce JPMorgan Chase's revenues. Increased competition also may require JPMorgan

Chase to make additional capital investments in its businesses, or to extend more of its capital on behalf of its clients to remain competitive.

The effects of climate change could adversely affect JPMorgan Chase's business and operations, both directly and as a result of impacts on its clients and customers.

JPMorgan Chase operates in many regions, countries and communities around the world where its business, and the activities of its clients and customers, could be adversely affected by climate change. Climate change could manifest as a financial risk to JPMorgan Chase either through changes in the physical climate or from the process of transitioning to a lower-carbon economy. Both physical risks and transition risks associated with climate change could have negative impacts on the financial condition or creditworthiness of JPMorgan Chase's clients and customers, on JPMorgan Chase's exposure to affected companies and markets, and on the effectiveness of JPMorgan Chase's existing business strategy with respect to its operations, clients and customers.

Physical risks include the increased frequency or severity of acute weather events, such as floods, wildfires and tropical cyclones, and chronic shifts in the climate, such as rising sea levels, persistent changes in precipitation levels, or increases in average ambient temperatures. Potential adverse impacts of climate-related physical risks to JPMorgan Chase, its clients or customers include:

- declines in asset values, including due to the destruction or degradation of property;
- reduced availability or increased cost of insurance for clients of JPMorgan Chase;
- interruptions to business operations, including supply chain disruption; and
- population migration or unemployment in affected regions.

Transition risks arise from the financial and economic consequences of society's shift towards a lower-carbon economy, such as changes in public policy, adoption of new technologies or changes in consumer preferences towards low-carbon goods and services. These risks could also be influenced by changes in the physical climate. Potential adverse impacts of transition risks to JPMorgan Chase, its clients or customers include:

- sudden devaluation of assets, including unanticipated write-downs ("stranded assets");
- increased operational and compliance costs driven by changes in climate policy;
- increased energy costs driven by governmental actions and initiatives such as emission pricing and accelerated decarbonisation policies;
- negative consequences to business models, and the need to make changes in response to those consequences; and
- damage to JPMorgan Chase's reputation, including due to any perception that its business practices are contrary to public policy or the preferences of different stakeholders.

Climate risks can also arise from inconsistencies and conflicts in the manner in which climate policy and financial regulations are implemented in the many regions where JPMorgan Chase operates, including initiatives to apply and enforce policy and regulation with extraterritorial effect. Additionally, internal models and estimations used in climate risk assessments have an increased level of uncertainty due to limited historical trend information and the absence of standardised, reliable and comprehensive greenhouse gas emissions data, which could lead to inaccurate disclosures or financial reporting.

Conduct failure by JPMorgan Chase employees can harm clients and customers, impact market integrity, damage JPMorgan Chase's reputation and trigger litigation and regulatory action.

JPMorgan Chase's employees interact with clients, customers, counterparties and other market and industry participants, and with each other, every day. All employees are expected to demonstrate values and exhibit the behaviours that are an integral part of JPMorgan Chase's Code of Conduct and Business Principles. JPMorgan Chase endeavours to embed conduct risk management throughout an employee's life cycle, including recruiting, onboarding, training and development, and performance management. Conduct risk management is also an integral component of JPMorgan Chase's promotion and compensation processes.

Notwithstanding these expectations, policies and practices, certain employees have engaged in improper or illegal conduct in the past. These instances of misconduct have resulted in litigation, and resolutions of governmental investigations or enforcement actions involving consent orders, deferred prosecution agreements, non-prosecution agreements and other civil or criminal sanctions. There is no assurance that further inappropriate or unlawful actions by employees have not occurred or will not occur, lead to a violation of the terms of these resolutions (and associated consequences), or that any such actions will always be detected, deterred or prevented.

JPMorgan Chase's reputation could be harmed by, and collateral consequences could result from, a failure by one or more employees to conduct themselves in accordance with JPMorgan Chase's expectations, policies and practices, including by acting in ways that harm clients, customers, other market participants, employees or others. Some examples of this include:

- improperly selling and marketing JPMorgan Chase's products or services;
- engaging in insider trading, market manipulation or unauthorised trading;
- engaging in improper or fraudulent behaviour in connection with government relief programs;
- facilitating a transaction where a material objective is to achieve a particular tax, accounting or financial disclosure treatment that may be subject to scrutiny by governmental or regulatory authorities, or where the proposed treatment is unclear or may not reflect the economic substance of the transaction;
- failing to fulfil fiduciary obligations or other duties owed to clients or customers;
- violating antitrust or anti-competition laws by colluding with other market participants;
- using electronic communications channels that have not been approved by JPMorgan Chase;
- engaging in discriminatory behaviour or harassment with respect to clients, customers or employees, or acting contrary to JPMorgan Chase's goal of fostering an inclusive workplace;
- managing or reporting risks in ways that subordinate JPMorgan Chase's risk appetite to business performance goals or employee compensation objectives; and
- misappropriating property, confidential or proprietary information, or technology assets belonging to JPMorgan Chase, its clients and customers or third parties.

The consequences of any failure by one or more employees to conduct themselves in accordance with JPMorgan Chase's expectations, policies or practices could include litigation, or regulatory or other governmental investigations or enforcement actions. Any of these proceedings or actions could result in judgments, settlements, fines, penalties or other sanctions, or lead to:

- financial losses;
- increased operational and compliance costs;
- greater scrutiny by regulators and other parties;

- regulatory actions that require JPMorgan Chase to restructure, curtail or cease certain of its activities;
- the need for significant oversight by JPMorgan Chase's management;
- loss of clients or customers; and
- harm to JPMorgan Chase's reputation.

The foregoing risks could be heightened with respect to newly-acquired businesses if JPMorgan Chase fails to successfully integrate employees of those businesses or any of those employees do not conduct themselves in accordance with JPMorgan Chase's expectations, policies and practices.

JPMorgan Chase's ability to attract and retain qualified employees is critical to its success.

JPMorgan Chase's employees are its most important resource, and in many areas of the financial services industry, competition for qualified personnel is intense. JPMorgan Chase endeavours to attract talented new employees from a variety of backgrounds and retain, develop and motivate its existing employees. JPMorgan Chase's efforts to hire and retain talented employees could be hindered by factors such as:

- the emerging need for more-skilled workers in an evolving labour and workplace environment, including due to changes in technology;
- targeted recruitment of JPMorgan Chase employees by competitors; and
- modifications to or discontinuation of JPMorgan Chase's hybrid work models.

JPMorgan Chase's performance and competitive position could be materially and adversely affected if it is unable to attract or retain qualified employees for its workforce or to devise and execute effective succession planning for key leadership roles, such as the Chief Executive Officer, members of the Operating Committee and other senior leaders.

In addition, advances in technology, such as automation and artificial intelligence, may lead to workforce displacement. This could require JPMorgan Chase to invest in additional employee training, manage impacts on morale and retention, and compete for employment candidates who possess more advanced technological skills, all of which could have a negative impact on JPMorgan Chase's business and operations.

Unfavourable changes in immigration or travel policies could adversely affect JPMorgan Chase's businesses and operations.

JPMorgan Chase relies on the skills, knowledge and expertise of employees located throughout the world. Changes in immigration or travel policies in the U.S. and other countries that unduly restrict or otherwise make it more difficult for employees or their family members to work in, or travel to or transfer between, jurisdictions in which JPMorgan Chase has operations or conducts its business could inhibit JPMorgan Chase's ability to attract and retain qualified employees, and thereby dilute the quality of its workforce, or could prompt JPMorgan Chase to make structural changes to its worldwide or regional operating models that cause its operations to be less efficient or more costly.

DOCUMENTS INCORPORATED BY REFERENCE

This document should be read and construed in conjunction with each supplement to this Registration Document and the documents incorporated by reference into this Registration Document. The information contained in the following documents, each filed by JPMSP with the CSSF, is hereby incorporated by reference into this Registration Document and deemed to be part of this Registration Document:

- (i) the JPMSP Annual Report for the year ended 31 December 2024 (the "**JPMSP 2024 Annual Report**") (available at: <https://dl.luxse.com/dlp/10ed15468aae064cddb06d71cd1f38e457>); and
- (ii) the JPMSP Annual Report for the year ended 31 December 2023 (the "**JPMSP 2023 Annual Report**") (available at: <https://dl.luxse.com/dlp/10d5f20025a12a4aaeaa9e249d2459724c>).

Any non-incorporated parts (information which is not listed in the cross-reference list below) of a document referred to herein are either deemed not relevant for an investor or are covered elsewhere in the Registration Document.

The table below sets out the relevant page references for the information incorporated into this Registration Document by reference.

Information incorporated by reference	Page reference
<i>From the JPMSP 2024 Annual Report*</i>	
Directors' report	Pages 3 to 10
Financial statements:	
Statement of financial position	Page 11
Income statement	Page 12
Statement of comprehensive income	Page 12
Statement of changes in equity	Page 13
Statement of cash flows	Page 14
Notes to the financial statements	Pages 15 to 38
Other Information:	
Profit appropriation according to the Articles of Association	Page 39
Independent auditors' report**	Pages 40 to 51
<i>From the JPMSP 2023 Annual Report*</i>	
Directors' Report	Pages 3 to 9
Financial Statements:	
Balance sheet	Page 10
Income statement	Page 11
Statement of comprehensive income	Page 11
Statement of changes in equity	Page 12
Statement of cash flows	Page 13
Notes to the financial statements	Pages 14 to 37
Other Information:	
Profit appropriation according to the Articles of Association	Page 38
Independent auditor's report***	Page 39 to 50

*The page numbers referenced above in relation to JPMSP 2024 Annual Report and the JPMSP 2023 Annual Report relate to the PDF version of such document.

** The auditor's report contained in the JPMSP 2024 Annual Report incorporated by reference into this Registration Document is the original auditor's report that was issued on 7 April 2025 with respect to the JPMSP 2024 Annual Report. The paragraph headed "European Single Electronic Format (ESEF)" on page 8 of the auditor's report (PDF page 47 of the JPMSP 2024 Annual Report) to the official 2024 annual report of JPMSP (as prepared in XHTML format) in accordance with the applicable Regulatory

Technical Standards (RTS) on ESEF, and is not applicable for the financial information and format as set out in this Registration Document.

*** The auditor's report contained in the JPMSP 2023 Annual Report incorporated by reference into this Registration Document is the original auditor's report that was issued on 8 April 2024 with respect to the JPMSP 2023 Annual Report. The paragraph headed "European Single Electronic Format (ESEF)" on page 8 of the auditor's report (PDF page 46 of the JPMSP 2023 Annual Report) relates to the official 2023 annual report of JPMSP (as prepared in XHTML format) in accordance with the applicable Regulatory Technical Standards (RTS) on ESEF, and is not applicable for the financial information and format as set out in this Registration Document.

Investors who have not previously reviewed the information contained in the above documents should do so in connection with their evaluation of any Securities. Any statement contained in a document, all or the relevant portion of which is incorporated by reference into this Registration Document, shall be deemed to be modified or superseded for the purpose of this Registration Document to the extent that a statement contained in this Registration Document or in any supplement to this Registration Document, including any documents incorporated therein by reference, modifies or supersedes such earlier statement (whether expressly, by implication or otherwise). The documents incorporated by reference will be available on the Luxembourg Stock Exchange's website (www.luxse.com).

J.P. MORGAN STRUCTURED PRODUCTS B.V.

History, Development and Organisational Structure

JPMSP was incorporated as a private limited liability company (*besloten vennootschap met beperkte aansprakelijkheid*) in Amsterdam, The Netherlands, on 6 November 2006 to exist for an unlimited duration. JPMSP mainly operates under the Dutch Civil Code (*Burgerlijk Wetboek*) and the Dutch Financial Supervision Act (*Wet op het financieel toezicht*). JPMSP was and remains registered at the Chamber of Commerce of Amsterdam under registered number 34259454 and has its registered offices at Luna ArenA, Herikerbergweg 238, 1101 CM Amsterdam, The Netherlands (telephone number +31 20 575 5600). The Legal Entity Identifier of JPMSP is XZYUUT6IYN31D9K77X08. The website of JPMSP is www.jpmorgan.com and the information on such website does not form part of this Registration Document unless that information is incorporated by reference into this Registration Document.

JPMSP is an indirect, wholly-owned subsidiary of JPMorgan Chase Bank, N.A. JPMorgan Chase Bank, N.A. is one of the principal bank subsidiaries of JPMorgan Chase & Co., a company incorporated in the State of Delaware in the United States of America.

Investment Policy

JPMSP may undertake independent investments in its sole discretion with the proceeds (net of third party costs) of an issuance of notes, warrants or certificates, subject to compliance with certain legal, tax and regulatory restrictions.

Principal Activities

JPMSP's business principally consists of the issuance of securitised derivatives comprising notes, warrants and certificates, including equity-linked, reverse convertible and market participation notes (together, and for the purposes of this section only, the "**Securities**") and the subsequent hedging of those risk positions. All issuances which have been closed to date are subject to hedging arrangements. The proceeds of the sale of the Securities are used for general corporate purposes, including the entry into hedging arrangements with other J.P. Morgan affiliates. JPMSP anticipates that the hedging arrangements will be sufficient to hedge itself against the market risk of its securities issuance activities. JPMSP also has receipts from and makes payments to other J.P. Morgan affiliates.

It is anticipated that JPMSP will, for each issuance, enter into hedging arrangements with other J.P. Morgan affiliates, and that such arrangements will be sufficient to hedge its market risk for each such issuance. Accordingly, the ability of JPMSP to perform its obligations under the Securities may be affected by any inability or failure to perform, pursuant to its hedging arrangements, by such other J.P. Morgan affiliate.

Expected financing of activities

The proceeds from the sale of Securities are used to fund the activities of JPMSP and other J.P. Morgan affiliates through certain economic hedging arrangements.

Principal Markets

During the financial year ended 31 December 2024, JPMSP issued Securities in the Asia Pacific region, Europe, the Middle East, Africa, Latin America and the United States of America.

Trend Information

JPMSP's primary objective in 2025 will be the continued development of securitised products to be offered and sold to retail, 'high net worth' and institutional investors principally outside of the United

States of America, linked to a range of underlying reference assets including equity, credit, interest rates, commodities and so called "alternatives" such as funds and hedge funds.

Directors and Officers

The administrative, management and supervisory bodies of JPMSP comprise its Board of Directors. Set forth below are the names and positions of JPMSP's Directors:

Name	Function	Business address
Arend Doppenberg	Managing Director	Luna ArenA, Herikerbergweg 238, 1101 CM Amsterdam, The Netherlands
Priscilla Marisa Schraal	Managing Director	Luna ArenA, Herikerbergweg 238, 1101 CM Amsterdam, The Netherlands
Rense Gerard Boks	Managing Director	Luna ArenA, Herikerbergweg 238, 1101 CM Amsterdam, The Netherlands
Sim Ee Cheah	Managing Director	26/F Chater House, 8 Connaught Road, Central, Hong Kong

The principal outside activities of Mr. Doppenberg, Ms. Schraal and Mr. Boks are as employees of TMF Netherlands B.V., a trust company which was established in The Netherlands in 1970. Ms. Cheah is a Managing Director at the Investment Bank division at JPMorgan Chase and there are no principal outside activities performed by Ms. Cheah which are significant to JPMSP as Issuer. All Directors hold office until removed.

Subject in the case of Mr. Doppenberg, Ms. Schraal and Mr. Boks to their duties to TMF Netherlands B.V., there are no material potential conflicts of interest between any duties owed to JPMSP by the Directors of JPMSP identified above and their private interests and/or outside duties.

Corporate Governance

JPMSP complies with established and accepted principles of corporate governance in The Netherlands. The Board of Directors of JPMSP conducts itself in accordance with general principles of Dutch corporate law.

The Board of Directors has appointed a committee to authorise and transact issuances of Securities. No other committees made up for specific purposes or to perform specific functions have been appointed.

Financial information

Historical financial information

JPMSP was incorporated on 6 November 2006. The JPMSP 2024 Annual Report is prepared and filed in accordance with the laws of The Netherlands.

JPMSP's audited financial statements as at and for the financial year ended 31 December 2024, which form part of JPMSP's 2024 Annual Report, are incorporated by reference into this Registration Document. PricewaterhouseCoopers Accountants N.V., who are members of the Royal Netherlands Institute of Chartered Accountants (*Koninklijke Nederlandse Beroepsorganisatie van Accountants*), have audited JPMSP's audited financial statements as at and for the financial year ended 31 December 2024

and issued an unqualified independent auditor's report thereon. A copy of the independent auditor's report appears from page 38 (pages 40 to 51 of the PDF) of the JPMSP 2024 Annual Report and is incorporated by reference into this Registration Document. PricewaterhouseCoopers Accountants N.V. has no material interest in JPMSP.

JPMSP's audited financial statements as at and for the financial year ended 31 December 2023, which form part of JPMSP's 2023 Annual Report, are incorporated by reference into this Registration Document. PricewaterhouseCoopers Accountants N.V., who are members of the Royal Netherlands Institute of Chartered Accountants (*Koninklijke Nederlandse Beroepsorganisatie van Accountants*), have audited JPMSP's audited financial statements as at and for the financial year ended 31 December 2023 and issued an unqualified independent auditor's report thereon. A copy of the independent auditor's report appears from page 37 (pages 39 to 50 of the PDF) of the JPMSP 2023 Annual Report and is incorporated by reference into this Registration Document. PricewaterhouseCoopers Accountants N.V. has no material interest in JPMSP.

The address of PricewaterhouseCoopers Accountants N.V. is Thomas R. Malthusstraat 5, 1066 JR Amsterdam, the Netherlands.

JPMSP produces unaudited and unreviewed interim financial statements in respect of the period ended 30 June in each year.

Capital Structure

The authorised share capital of JPMSP is euro 90,000, divided into 90,000 ordinary shares of euro 1.00 each. At incorporation 18,000 ordinary shares were issued. By a notarial deed of share issuance dated 30 March 2007 an additional 2,000 ordinary shares were issued in consideration of U.S.\$500,000,000. The total issued and fully paid up share capital therefore amounts to 20,000 ordinary shares. JPMSP does not hold any of its own shares.

Memorandum and Articles of Association

JPMSP's objects as set out in Article 3 of its Articles of Association are:

- (i) to incorporate, to participate in any manner whatsoever, to manage, to supervise, to cooperate with, to acquire, to maintain, to dispose of, to transfer or to administer in any other manner whatsoever all sorts of participations and interests in businesses, legal entities and companies as well as to enter into joint ventures;
- (ii) to finance businesses, legal entities and companies;
- (iii) to borrow, to lend and to raise funds, to participate in all sorts of financial transactions, including the issue of bonds, promissory notes or other securities, to invest in securities in the widest sense of the word, and to enter into agreements and financial instruments in connection with the foregoing;
- (iv) to enter into swaps and any other derivative transactions whatsoever to hedge the company's exposure under any agreements, securities or other instruments whatsoever to which it is a party;
- (v) to grant guarantees, to bind the company and to grant security over the assets of the company for the benefit of legal entities and companies with which the company forms a group and for the benefit of third parties;
- (vi) to advise and to render services to legal entities and companies with which the company forms a group and to third parties;
- (vii) to acquire, to administer, to operate, to encumber, to dispose of and to transfer moveable assets and real property and any right to or interest therein;
- (viii) to trade in currencies, securities and financial assets in general;

- (ix) to obtain, to exploit, to dispose of and to transfer patents and other industrial and intellectual property rights, to obtain and to grant licenses, sub-licenses and similar rights of whatever name and description and, if necessary, to protect the rights derived from patents and other industrial and intellectual property rights, licenses, sub-licenses and similar rights against infringements by third parties;
- (x) to carry out all sorts of industrial, financial and commercial activities, including the import, export, purchase, sale, distribution and marketing of products and raw materials,

and all matters related or conducive to the above, with the objects to be given their most expansive possible interpretation. In pursuing its objects, JPMSP shall also take into account the interests of the legal entities and companies with which it forms a group.

Operating Profit and Loss

The operating loss of JPMSP for the year ended 31 December 2024 was U.S.\$ 244,000.

The operating profit of JPMSP for the year ended 31 December 2023 was U.S.\$ 1,451,000.

Principal Establishments and Real Estate owned

JPMSP does not own any principal establishments, which account for more than 10 per cent. (ten per cent.) of its revenues, nor does JPMSP own any real estate directly.

Dividends

JPMSP has not paid any dividends since its incorporation on 6 November 2006.

GENERAL INFORMATION

1. **No material adverse change in prospects or significant change in financial or trading position or financial performance**

There has been no material adverse change in the prospects of JPMSP since 31 December 2024.

There has been no significant change in the financial or trading position or financial performance of JPMSP since 31 December 2024.

2. **Legal and arbitration proceedings**

JPMSP is not and has not been involved in any governmental, legal or arbitration proceedings that are material during the 12-month period ending on the date of this Registration Document which may have, or have had in the recent past, significant effects on the financial position or profitability of JPMSP nor, so far as JPMSP is aware, are any such governmental, legal or arbitration proceedings pending or threatened.

3. **Documents available**

The following documents, or copies thereof, will be available for the term of this Registration Document, during normal business hours on any weekday (Saturdays, Sundays and public holidays excepted), for inspection at the office of the JPMSP and J.P. Morgan Securities plc and may also be viewed electronically at the following websites:

- (i) JPMSP 2024 Annual Report and the JPMSP 2023 Annual Report, each available at the websites as set out in "*Documents Incorporated by Reference*" above; and
- (ii) the Articles of Association of the JPMSP, available at <https://dl.bourse.lu/dlp/10db3a59658dee454f8ebe3bdd1b373f4e>. The information on such website does not form part of this Registration Document and has not been scrutinised or approved by the CSSF.

Registered Office of JPMSP

**J.P. Morgan Structured
Products B.V.**

Luna ArenA
Herikerbergweg 238
1101 CM Amsterdam
The Netherlands

Dealer and Arranger

J.P. Morgan Securities plc

25 Bank Street
Canary Wharf
London, E14 5JP
United Kingdom

**Independent Auditor of
JPMSP**

**PricewaterhouseCoopers
Accountants N.V.**

Thomas R. Malthusstraat 5,
1066 JR Amsterdam,
the Netherlands