FIRM OVERVIEW

February 25, 2020
We have built a Complete, Global, Diversified franchise that is At Scale – positioned to outperform in any environment

**Exceptional client franchises**
- Customer centric and easy to do business with
- Comprehensive set of products and services
- Focus on safety and security
- Powerful brands

**Unwavering principles**
- **Fortress** balance sheet
- Risk governance and controls
- Culture and conduct
- Operational resilience

**Long-term shareholder value**
- Continuously investing in the future while maintaining expense discipline
- Focus on customer experience and innovation
- Employer of choice for top talent

**Sustainable business practices**
- Promoting sound governance
- Serving a diverse customer base
- Investing in and supporting our communities
- Integrating environmental sustainability into business and operating decisions

Proven operating model – positioned to outperform in any environment
Our comprehensive approach to sustainable development integrates business, community and environmental objectives and leverages our global capabilities.

**Existing commitments** (announced in 2017):
- Multi-year, cumulative commitment to facilitate $200B in green financing
- Source renewable energy for 100% of global power needs

- ✔️ Expect to achieve both by end of 2020

**New commitment** – increasing our impact on sustainable development

**Three areas of focus:**

1. **Green:** supporting climate action, clean water and waste management

2. **Social:** increasing access to housing, education and healthcare

3. **Economic development:** advancing infrastructure, innovation and growth

Facilitate **$200B in financing** across these areas in 2020

(up from ~$175B in 2019)

note: For footnoted information, refer to slide 27
Our client franchises are exceptional – with leadership positions across each business

### Consumer & Community Banking

<table>
<thead>
<tr>
<th>ROE 31%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>63mm</strong> U.S. households, including <strong>4mm</strong> small businesses²</td>
</tr>
<tr>
<td><strong>9.3% retail deposit</strong> market share³</td>
</tr>
<tr>
<td>&gt;75% of our checking households use Chase as their <strong>primary bank</strong></td>
</tr>
<tr>
<td><strong>#1 U.S. credit card</strong> issuer based on sales and outstandings⁴</td>
</tr>
</tbody>
</table>

### Asset & Wealth Management

<table>
<thead>
<tr>
<th>ROE 26%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business with <strong>59%</strong> of the world’s largest pension funds, sovereign wealth funds and central banks</td>
</tr>
<tr>
<td><strong>#1 Private Bank</strong> in North America⁹</td>
</tr>
<tr>
<td>88% of 10-year mutual fund AUM performed above peer median¹⁰</td>
</tr>
<tr>
<td><strong>$3.2T</strong> client assets, including <strong>$2.4T</strong> AUM</td>
</tr>
</tbody>
</table>

### Corporate & Investment Bank

<table>
<thead>
<tr>
<th>ROE 14%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business with &gt;80% of Fortune 500 companies and presence in over <strong>100</strong> markets globally</td>
</tr>
<tr>
<td><strong>#1 globally</strong> in both IB fees⁵ and Markets revenue⁶</td>
</tr>
<tr>
<td><strong>#1</strong> in <strong>USD payments</strong> volume⁷</td>
</tr>
<tr>
<td><strong>#2 custodian</strong> globally with <strong>$27T AUC</strong>⁸</td>
</tr>
</tbody>
</table>

### Commercial Banking

<table>
<thead>
<tr>
<th>ROE 17%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>142</strong> locations across the U.S. and <strong>30</strong> international locations</td>
</tr>
<tr>
<td>Credit, banking and treasury services to ~18k C&amp;I¹¹ clients and ~34k real estate owners and investors</td>
</tr>
<tr>
<td><strong>#1 U.S. multifamily</strong> lender¹²</td>
</tr>
<tr>
<td><strong>$2.7B gross investment banking</strong> revenue¹³</td>
</tr>
</tbody>
</table>

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Note: Totals may not sum due to rounding. For footnoted information, refer to slides 28-29
2019 was another year of record revenue and net income

$118.7_B\text{ }\uparrow$  

Revenue$^{1,2}$

$36.4_B\text{ }\uparrow$  

Net income

19\%  

ROCE$^3$

55\%  

OH ratio$^{1,4}$

6\%  

Revenue growth YoY

12\%  

Net income growth YoY

19\%  

Note: For footnoted information, refer to slide 30

Strong financial performance on an absolute and relative basis
We have grown pre-tax income across each of our businesses – while capitalizing on a favorable economic environment.

Pre-tax income\(^{1,2}\) (B)

<table>
<thead>
<tr>
<th>Business</th>
<th>2015</th>
<th>2017</th>
<th>2019</th>
<th>CAGR</th>
<th>CAGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWM</td>
<td>$33.8B</td>
<td>$39.9B</td>
<td>$47.6B</td>
<td>9%</td>
<td>N/A</td>
</tr>
<tr>
<td>CB</td>
<td>3.2B</td>
<td>5.6B</td>
<td>5.2B</td>
<td>4%</td>
<td>10%</td>
</tr>
<tr>
<td>CIB</td>
<td>11.8B</td>
<td>15.3B</td>
<td>16.5B</td>
<td>9%</td>
<td>N/A</td>
</tr>
<tr>
<td>CCB</td>
<td>15.9B</td>
<td>14.9B</td>
<td>22.0B</td>
<td>9%</td>
<td>N/A</td>
</tr>
<tr>
<td>Corp.</td>
<td>(0.7)</td>
<td>0.6</td>
<td>0.1</td>
<td>N/A</td>
<td>5%</td>
</tr>
</tbody>
</table>

Note: Totals may not sum due to rounding. For footnoted information, refer to slide 31.
We have benefited from the rate environment since 2015 – and we have reinvested the majority of that benefit back into the business.

Revenue\(^1\) ($B)

<table>
<thead>
<tr>
<th>Year</th>
<th>NII</th>
<th>NIR</th>
<th>Balance sheet growth/mix</th>
<th>Rates</th>
<th>CIB Markets/other</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>$98</td>
<td>45</td>
<td>$7</td>
<td>$8</td>
<td>($2)</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>+$13B total NII</td>
<td></td>
<td></td>
<td>+29%</td>
</tr>
</tbody>
</table>

Note: For footnoted information, refer to slide 32.
Investments have strengthened our franchise and resiliency in a more challenging environment.

**Broader distribution**
- New markets/locations
- CBB U.S. market expansion
- CB domestic and international expansion
- AWM & CIB: China JVs
- Front office hiring (since ’15)
- ~2,000 new sales/coverage bankers and client advisors across all LOBs

**Expanded products & capabilities**
- Wholesale payments
- Launched or refreshed 16 credit cards (since ’18)
- Market-making across new asset classes
- Enhanced platforms and solutions
- Digital customer self-service options (e.g., banking and brokerage)

**Tech & cyber**
- Significantly improved consumer digital experience
- Data analytics tools
- Electronic channel distribution/trading
- Strengthened cybersecurity capabilities: 24/7 global coverage; ~3,000 professionals

**Productivity & cost efficiencies**
- Driving cloud adoption
- Migration to modernized data centers
- Digitization/robotics solutions for manual processes
- Workforce and location strategy

**Artificial intelligence**
- Fraud detection
- Consumer personalization
- Client tailoring
- Efficient content creation

Enhanced our competitive advantages – More Complete, Global, Diversified and At Scale
We have captured share across businesses by investing consistently and leveraging our competitive advantages.
The environment remains strong, but presents us with potential cyclical headwinds…

Declining rate environment challenging deposit margins

Fed Funds rate\(^1\)

Positive, but slowing, economic growth\(^3\)…

…raising specter of next credit cycle

Note: For footnoted information, refer to slide 34
…but our broad diversification benefits us in a more cyclically challenged environment

Lower rates have offsets across all our businesses...

CCB: Mortgage origination
Total mortgage origination volume\(^1\)

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>$79B</td>
<td>$105B</td>
<td></td>
</tr>
</tbody>
</table>

CIB: Mortgage trading
Agency trading revenue\(^2\)

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>$106B</td>
<td>$106B</td>
<td></td>
</tr>
</tbody>
</table>

AWM: Demand for yield
Fixed income net flows

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>($1B)</td>
<td>$106B</td>
<td></td>
</tr>
</tbody>
</table>

CB: CTL origination
CTL origination volume\(^3\)

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>$13B</td>
<td>$18B</td>
<td></td>
</tr>
</tbody>
</table>

…and we benefit from a diverse set of clients and geographies

Diversity of geographies
2019 YoY Firm revenue growth

- Slowing European economy…offset by robust global growth

<table>
<thead>
<tr>
<th></th>
<th>EMEA(^4)</th>
<th>Asia-Pacific</th>
<th>North America</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>(3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>4%</td>
<td>8%</td>
<td></td>
</tr>
</tbody>
</table>

Diversity of clients
2019 avg. loan growth

- Weaker corporate sentiment…offset by strong consumer

<table>
<thead>
<tr>
<th></th>
<th>C&amp;I(^5)</th>
<th>AWM</th>
<th>Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>1%</td>
<td>8%</td>
<td>7%</td>
</tr>
</tbody>
</table>

Note: Totals may not sum due to rounding. For footnoted information, refer to slide 35
In addition to cyclical headwinds, we also face more secular challenges…

**Pressure on interchange fees**
Card net interchange margin\(^1\) (%)

**Active to passive shift**
U.S. equity funds by type\(^2\) (%)

**Smaller wallets & overcapacity**
FICC global revenue pool\(^3\) ($B)

**Growth in alternative pools of capital**
Global private capital dry powder\(^4\) ($T)

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Note: For footnoted information, refer to slide 36
…but our scale, completeness and global franchises allow us to address broad-based margin pressure across the industry caused by these secular headwinds.

**Active to passive pressuring the entire asset management value chain**

**Smaller wallets and electronification compressing trading margins**

**Enhanced competition for clients**

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### AUM

- **AUM yield¹**
  - 2014: 12%
  - 2019: 20%

- **Avg. AUM**
  - 2014: 29%
  - 2019: 36%

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### Securities Services

- **Fees/AUC²**
  - 2014: 30%
  - 2019: 25%

- **AUC²**
  - 2014: 30%
  - 2019: 40%

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### Cash Equities

- **Commission rate³**
  - 2014: 30%
  - 2019: 25%

- **Trading volume**
  - 2014: 65%
  - 2019: 25%

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### Foreign Exchange

- **Yield⁴**
  - 2014: 30%
  - 2019: 25%

- **Trading volume**
  - 2014: 15%
  - 2019: 25%

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### Credit Card

- **Net revenue rate⁵**
  - 2014: 4%
  - 2019: 25%

- **Card loans**
  - 2014: 25%
  - 2019: 5%

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### Investment Banking

- **Industry fee per bookrunner⁶**
  - 2019 vs. 2014
  - DCM: 28%
  - ECM: 40%

- **JPM fee per deal⁶**
  - 2019 vs. 2014
  - DCM: 12%
  - ECM: 5%

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Note: For footnoted information, refer to slide 37
Being Complete, Global, Diversified and At Scale are our competitive advantages…

- **Complete**: Promotes more engagement and deepening of relationships with customers

- **Global**: Allows us to serve more clients everywhere while offering geographic diversification

- **Diversified**: Supports more stable earnings in any operating environment

- **At Scale**: Offsets margin compression through volume growth and facilitates synergy realization

…and they are key to outperforming when faced with cyclical or secular headwinds
Banks have offered earnings growth and stability over the long-term – and among banks we have outperformed.
Balance sheet – accelerating deposit growth and remixing of interest-earning assets

**YoY loan and deposit growth, quarterly avg. (%)**

- **Deposit growth**
- **Loan growth (excl. HL sales)**

<table>
<thead>
<tr>
<th>Quarter</th>
<th>1Q18</th>
<th>2Q18</th>
<th>3Q18</th>
<th>4Q18</th>
<th>1Q19</th>
<th>2Q19</th>
<th>3Q19</th>
<th>4Q19</th>
</tr>
</thead>
<tbody>
<tr>
<td>1Q18</td>
<td>0%</td>
<td>2%</td>
<td>4%</td>
<td>5%</td>
<td>3.6%</td>
<td>3.5%</td>
<td>2.5%</td>
<td>1.5%</td>
</tr>
<tr>
<td>2Q18</td>
<td>3.8%</td>
<td>4%</td>
<td>6%</td>
<td>8%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
</tr>
<tr>
<td>3Q18</td>
<td>3.6%</td>
<td>5.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
</tr>
<tr>
<td>4Q18</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
<td>7.0%</td>
</tr>
</tbody>
</table>

**4Q19:** $1,568B

‘17-’19 growth: +$132B

**4Q19:** $948B

‘17-’19 growth: +$66B

**Interest earning-assets, quarterly avg. ($B)**

- **Loans**
- **Sec. borrowed/other**
- **Fed funds/rev. repo**
- **Trading assets**
- **Cash**
- **Inv. securities**
- **Deployment**
- **Balance sheet optimization**

<table>
<thead>
<tr>
<th></th>
<th>4Q18</th>
<th>4Q19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loans</td>
<td>$2,254</td>
<td>$2,378</td>
</tr>
<tr>
<td>Sec. borrowed/other</td>
<td>170</td>
<td>191</td>
</tr>
<tr>
<td>Fed funds/rev. repo</td>
<td>256</td>
<td>248</td>
</tr>
<tr>
<td>Trading assets</td>
<td>258</td>
<td>324</td>
</tr>
<tr>
<td>Cash</td>
<td>364</td>
<td>394</td>
</tr>
<tr>
<td>Inv. securities</td>
<td>245</td>
<td>273</td>
</tr>
</tbody>
</table>

**Remixing toward higher-yield loans**

**FY2019 YoY growth**

- **Card:** 7%
- **Home Lending:** (9)%
- **CB:** 1%
- **AWM:** 8%

Note: For footnoted information, refer to slide 39
Liquidity – level of HQLA has remained stable, while composition has changed

HQLA\(^1\) composition, quarterly avg. ($B)

- **FRB cash\(^3\)**
  - **4Q17:** $2.18T
  - **4Q19:** $1.65T
  - **($0.53T)**

- **FRB reserves (systemwide\(^4\))**
  - **4Q17:** $2.18T
  - **4Q19:** $1.65T
  - **($0.53T)**

- **UST**
  - **4Q17:** $560
  - **4Q19:** $545
  - **+$150B**

- **Other cash**
  - **4Q17:** ($210B)
  - **4Q19:** $2.18T
  - **+$150B**

- **Other securities**
  - **4Q17:** $560
  - **4Q19:** $545

- **LCR\(^2\): 116%**

Note: For footnoted information, refer to slide 40

- **In addition to our HQLA, we have**
  - ~$600B of other liquidity sources
  - ~$300B of FHLB & FRB borrowing capacity\(^5\)
  - ~$300B of unencumbered marketable securities\(^6\)
GSIB framework requires timely short-term recalibration

There is increasing pressure to remain in current buckets…

... but there is a simple solution

A capital-neutral package of revisions will expand capacity

1. Index GSIB-coefficients to GDP
2. Decrease size of GSIB buckets to remove problematic cliff effects
3. Move measurement period to quarterly average

A simple capital-neutral solution expands capacity and ensures confidence in the markets

Note: For footnoted information, refer to slide 41
Capital targets remain consistent as we await SCB & GSIB updates

Targets – largely unchanged in absence of SCB1/GSIB update…

- Returned ~$34B to shareholders2 in 2019
- Net payout of ~100%

… and our priorities remain the same

- LOB capital allocation3 philosophy and dollars unchanged
- Hierarchy of capital use unchanged

CET1 capital ratio – Standardized

- Advanced: 13.4%
- 2019 Actual: 12.4%
- Medium-term target: 11.5-12%

How we deploy capital

Investments
Organic growth + acquisitions

Dividends
Attractive yield
Sustainability in variety of environments

Buybacks
Only if additional excess

Note: For footnoted information, refer to slide 42
Net interest income – we are not immune to the rate environment, but growth and mix will support NII in 2020 and beyond

Net interest income\(^1\) ($B)

<table>
<thead>
<tr>
<th>Year</th>
<th>Rates</th>
<th>Balance sheet growth/mix</th>
<th>CIB Markets/other</th>
<th>2020(^2)</th>
<th>2021(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>$57.8</td>
<td>($3.5)</td>
<td>$2</td>
<td>$1</td>
<td>$57+</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$60+/-</td>
</tr>
</tbody>
</table>

- **Lower asset yields, more than offsetting liability reprice**
- **Offset by deposit growth and balance sheet mix**

**2021 assumptions:**
- Continued strong growth in deposits and card balances
- Forward curve realized\(^2\)

Expect growth and mix to offset the majority of rate pressure in 2020

Note: Totals may not sum due to rounding. For footnoted information, refer to slide 43
Noninterest revenue – steady growth in volume-driven NIR

Noninterest revenue\(^1\) ($B)

<table>
<thead>
<tr>
<th>Market dependent</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume driven</td>
<td>$55.8</td>
<td>$60.9</td>
</tr>
</tbody>
</table>

- **CIB Markets**: +11%
- **HL production**: +3%
- **Auto leasing**: -
- **HL servicing**: -
- **Card**: +3%

Other\(^2\): $0.2

Note: Totals may not sum due to rounding. For footnoted information, refer to slide 44.
Overhead ratio – significant improvement driven by revenue growth and expense efficiencies

Adjusted overhead ratio\(^1,2\) (%)

<table>
<thead>
<tr>
<th>Year</th>
<th>Higher rates</th>
<th>Increase in investments</th>
<th>Auto lease growth</th>
<th>Business growth/other</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>(5%)</td>
<td>5%</td>
<td>1%</td>
<td>58%</td>
<td>58%</td>
</tr>
</tbody>
</table>

Higher investments have more than offset the benefit from higher rates...

...and expense efficiencies have offset volume-driven expenses

<55% in the medium term

Note: Totals may not sum due to rounding. For footnoted information, refer to slide 45
Noninterest expense – we expect a reduction in structural expenses to help fund our investment growth

Adjusted noninterest expense\(^1\) ($B)

<table>
<thead>
<tr>
<th>Year</th>
<th>Investments</th>
<th>Volume- and revenue-related growth</th>
<th>Structural</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>$63.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>$65.3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Cost efficiencies, including:
- Workforce optimization
- Technology efficiencies
- Scale benefits

Non-technology
(Driven by front office hiring\(^2\), new branches and market expansion)

- Auto lease depreciation
- CCB volume growth
- Marketing
- Incentive compensation

\(^{2}\) Note: For footnoted information, refer to slide 46
Credit – we remain vigilant despite a benign environment

### Net charge-offs

<table>
<thead>
<tr>
<th></th>
<th>2019 NCO rate</th>
<th>2019 NCOs ($B)</th>
<th>2020 outlook NCO rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CCB</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Lending¹</td>
<td>(0.05)%</td>
<td>$(0.1)</td>
<td></td>
</tr>
<tr>
<td>Card</td>
<td>3.10%</td>
<td>4.8</td>
<td></td>
</tr>
<tr>
<td>Auto</td>
<td>0.33%</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Business Banking²</td>
<td>0.58%</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td><strong>CIB</strong></td>
<td>0.15%</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td><strong>CB</strong></td>
<td>0.08%</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td><strong>AWM</strong></td>
<td>0.02%</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Firmwide¹</td>
<td>0.61%</td>
<td>$5.6</td>
<td>$6B+</td>
</tr>
</tbody>
</table>

**Allowance for credit losses**

**2019**
- No Firmwide net reserve build
  - $500mm reserve build in Card
  - $750mm reserve release in Home Lending, predominantly related to PCI loans

**2020 outlook**
- Expect net reserve build in 2020
  - Predominantly driven by Card on growth

Note: Totals may not sum due to rounding. For footnoted information, refer to slide 47
The strength of our franchise supports continued leading financial performance.

**Medium term**

- ~17% ROTCE
- <55% Overhead ratio
- 11.5-12% CET1 ratio

**Key Values**
- Complete
- Global
- Diversified
- At Scale

**Exemplary Attributes**
- Exceptional client franchises
- Unwavering principles
- Long-term shareholder value
- Sustainable business practices
<table>
<thead>
<tr>
<th></th>
<th>Agenda</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appendix – Capital allocation</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>Notes</td>
<td>26</td>
</tr>
</tbody>
</table>
## 2020 LOB capital allocation and ROE

<table>
<thead>
<tr>
<th></th>
<th>Avg. CET1 ($B)</th>
<th>Medium-term ROE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2020</td>
</tr>
<tr>
<td>CCB</td>
<td>$52</td>
<td>$52</td>
</tr>
<tr>
<td>CIB</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>CB</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>AWM</td>
<td>10.5</td>
<td>10.5</td>
</tr>
<tr>
<td>Corporate</td>
<td>23.5</td>
<td>20.5</td>
</tr>
<tr>
<td>Firm</td>
<td>~$188</td>
<td>~$185¹</td>
</tr>
</tbody>
</table>

LOB capital allocation and ROE remain unchanged

¹ Reflects average CET1 capital. Total Firm for 2020 is based on analyst estimates
## Agenda

<table>
<thead>
<tr>
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<th>Appendix – Capital allocation</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Notes</td>
<td>26</td>
</tr>
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</table>
Notes on non-GAAP financial measures

1. In addition to analyzing the Firm’s results on a reported basis, management reviews Firmwide results, including the overhead ratio, on a “managed” basis; these Firmwide managed basis results are non-GAAP financial measures. The Firm also reviews the results of the lines of business on a managed basis. The Firm’s definition of managed basis starts, in each case, with the reported U.S. GAAP results and includes certain reclassifications to present total net revenue for the Firm and each of the reportable business segments on a fully taxable-equivalent (“FTE”) basis. Accordingly, revenue from investments that receive tax credits and tax-exempt securities is presented in the managed results on a basis comparable to taxable investments and securities. These financial measures allow management to assess the comparability of revenue arising from both taxable and tax-exempt sources. The corresponding income tax impact related to tax-exempt items is recorded within income tax expense. These adjustments have no impact on net income as reported by the Firm as a whole or by the lines of business. For a reconciliation of the Firm’s results from a reported to managed basis, see pages 57-58 of JPMorgan Chase Co.’s Annual Report on Form 10-K for the year ended December 31, 2019 (the “2019 Form 10-K”).

2. Tangible common equity (“TCE”) and return on tangible common equity (“ROTCE”) are each non-GAAP financial measures. TCE represents the Firm’s common stockholders’ equity (i.e., total stockholders’ equity less preferred stock) less goodwill and identifiable intangible assets (other than MSRs), net of related deferred tax liabilities. For a reconciliation from common stockholders’ equity to TCE, see page 59 of the 2019 Form 10-K. ROTCE measures the Firm’s net income applicable to common equity as a percentage of average TCE. TCE and ROTCE are utilized by the Firm, as well as investors and analysts, in assessing the Firm’s use of equity.

3. Adjusted expense and adjusted overhead ratio are each non-GAAP financial measures. Adjusted expense excludes Firmwide legal expense of $3.0 billion, $72 million and $239 million for the years ended December 31, 2015, 2018 and 2019, respectively. The adjusted overhead ratio measures the Firm’s adjusted expense as a percentage of managed net revenue. Management believes this information helps investors understand the effect of these items on reported results and provides an alternate presentation of the Firm’s performance.

Notes on slide 2 – Our comprehensive approach to sustainable development integrates business, community and environmental objectives and leverages our global capabilities

1. In 2017, JPMorgan Chase announced commitments to facilitate $200 billion in clean financing by 2025 and to source renewable energy for 100% of global power needs by 2020. Source: JPMorgan Chase Co.’s 2018 Environmental Social & Governance Report
Notes on slide 3 – Our client franchises are exceptional – with leadership positions across each business (1/2)

1. See note 1 on slide 26

2. Includes Business Banking (deposit and loan/line of credit) and Ink (card; excludes partner and commercial) households. As a result of a change in household methodology in 2019, ~200K partner cards are no longer included

3. Federal Deposit Insurance Corporation (“FDIC”) 2019 Summary of Deposits survey per S&P Global Market Intelligence. Includes a $500 million deposit cap for market share. Includes all commercial banks, savings banks, and savings institutions as defined by the FDIC

4. Based on 2019 sales volume and loans outstanding disclosures by peers (C, BAC, COF, AXP, DFS) and JPMorgan Chase estimates. Sales volume excludes private label and Commercial Card. AXP reflects the U.S. Consumer segment and JPMorgan Chase estimates for AXP’s U.S. small business sales. Loans outstanding exclude private label, AXP Charge Card, and Citi Retail Cards

5. Dealogic as of January 2, 2020

6. Coalition, preliminary 2019 rank analysis is based on JPMorgan Chase’s business structure. FY19 rank analysis is based on preliminary results and peer set: BAC, BARC, BNPP, CITI, CS, DB, GS, HSBC, JPM, MS, SG and UBS

7. Based on third-party data

8. Source of assets under custody (“AUC”): Company filings

9. Euromoney; 2019 results released February 6, 2019

10. All quartile rankings, the assigned peer categories and the asset values used to derive this analysis are sourced from Lipper, Morningstar and Nomura based on country of domicile. Includes only Asset Management retail open-ended mutual funds that are ranked by the aforementioned sources. Excludes money market funds, Undiscovered Managers Fund, and Brazil domiciled funds. Quartile rankings reflect the total return (net-of-fees) of each fund. The data providers re-denominate the asset values into U.S. dollars. This % of assets under management (“AUM”) is based on fund performance and associated peer rankings at the share class level for U.S. domiciled funds and at the “primary share class” level or fund level for all other funds. The “primary share class,” as defined by Morningstar, denotes the share class recommended as being the best proxy for the portfolio and in most cases will be the most retail version (based upon the annual management fees charged, minimum investment, currency and other factors). Where peer group rankings given for a fund are in more than one “primary share class” territory both rankings are included to reflect local market competitiveness. The performance data could have been different if all funds/accounts were included. Past performance is not indicative of future results. The classifications in terms of product suites and product engines shown are J.P. Morgan’s own and are based on its internal investment management structures
Notes on slide 3 – Our client franchises are exceptional – with leadership positions across each business (2/2)

11. The Commercial and Industrial ("C&I") grouping is generally based on client segments and does not align with regulatory definitions

12. S&P Global Market Intelligence as of September 30, 2019

13. Represents total JPMorgan Chase revenue from investment banking products sold to Commercial Banking clients
Notes on slide 4 – 2019 was another year of record revenue and net income

1. See note 1 on slide 26
2. Amounts for GS and MS represent reported revenue
3. See note 2 on slide 26
4. Managed overhead ratio = total noninterest expense / managed revenue; revenue for GS and MS is reflected on a reported basis
Notes on slide 5 – We have grown pre-tax income across each of our businesses – while capitalizing on a favorable economic environment

1. Income before income tax expense on a Managed basis. See note 1 on slide 26

2. For a reconciliation of the Firm’s 2015 results from a reported to managed basis, see page 80 of JPMorgan Chase Co.’s Annual Report on Form 10-K for the year ended December 31, 2015 (the “2015 Form 10-K”)


5. Average quarterly rate, not seasonally adjusted. Source: Board of Governors of the Federal Reserve System as of December, 2019
Notes on slide 6 – We have benefited from the rate environment since 2015 – and we have reinvested the majority of that benefit back into the business

1. See note 1 on slide 26
Notes on slide 8 – We have captured share across businesses by investing consistently and leveraging our competitive advantages

1. FDIC 2019 Summary of Deposits survey per S&P Global Market Intelligence. Includes a $500 million deposit cap for market share and a $500 million 10-year exclusion for growth (excluded branches are assumed to include a significant level of commercial deposits or are headquarter branches for direct banks). Includes all commercial banks, savings banks, and savings institutions as defined by the FDIC.

2. Represents general purpose credit card (“GPCC”) spend, which excludes private label and Commercial Card; based on company filings and JPMorgan Chase estimates.

3. Coalition, preliminary 2019 market share analysis reflects JPMorgan Chase’s share of the global industry revenue pool and is based on JPMorgan Chase’s business structure.


5. Markets Revenue growth per Coalition Competitor preliminary 2019 analysis, and Global IB fees growth per Dealogic as of January 2, 2020. Growth per JPMorgan Chase’s managed results were 9% and 13% for Markets revenue and IB fees, respectively.

6. Commercial Banking’s market share and relative growth are compared to the respective C&I and CRE portfolios of all U.S. banks. Source: S&P Global Market Intelligence as of December 31, 2019. The C&I and CRE groupings used herein align with regulatory definitions.

7. Strategic Insight as of January 2020. Reflects active long-term mutual funds and exchange-traded funds (“ETFs”) only. Excludes fund of funds and money market funds.

Notes on slide 9 – The environment remains strong, but presents us with potential cyclical headwinds…

1. Board of Governors of the Federal Reserve System
2. J.P. Morgan calculation based on market data as of February 21, 2020
3. Historical data from U.S. Bureau of Economic Analysis, Eurostat, Office for National Statistics, Cabinet Office of Economic and Social Research Institute and J.P. Morgan CIB Research for the U.S., Euro area, the U.K, Japan and Emerging Asia, respectively. Forecast data from J.P. Morgan CIB Research as of February 19, 2020. 2019 actuals for Emerging Asia not yet available
4. FDIC as of Q319; represents quarterly loan portfolio performance indicators for all FDIC-insured institutions. The Commercial and Industrial ("C&I") grouping aligns with regulatory definitions
Notes on slide 10 – …but our broad diversification benefits us in a more cyclically challenged environment

1. Firmwide mortgage origination volume was $115.9 billion and $86.9 billion for the years ended December 31, 2019 and 2018, respectively

2. "Agency trading" refers to market-making activities in U.S. government agency mortgage-backed securities. Agency trading revenues are externally reported as part of the Fixed Income Markets business

3. Commercial Term Lending ("CTL") originations include refinancing activity

4. Europe/Middle East/Africa ("EMEA")

5. The Commercial and Industrial ("C&I") grouping is generally based on client segments and does not align with regulatory definitions
Notes on slide 11 – In addition to cyclical headwinds, we also face more secular challenges…

1. Net interchange margin = net interchange income (interchange income less rewards costs and partner payments)/credit card sales volume

2. Morningstar, as of December, 1998, and April, 2019, respectively

3. Fixed income, currency and commodities (“FICC”); Coalition, preliminary 2019-2020 Industry revenue pool analysis based on JPMorgan Chase’s business structure

4. Prequin, as of December, 2014, and March, 2019, respectively
...but our scale, completeness and global franchises allow us to address broad-based margin pressure across the industry caused by these secular headwinds

1. AUM yield = long-term and cash management fees / average AUM

2. 2014 and 2019 fees and AUC adjusted for exited businesses. 2014 fees also exclude the impact of a significant client exit and was revised to present depository receipt fees on a net basis in accordance with the retrospective adoption of the revenue recognition guidance in the first quarter of 2018. Total adjustments to fees were $368 million and $0.1 million in 2014 and 2019, respectively. Total adjustments to AUC were $1.1 trillion and $0.2 trillion in 2014 and 2019, respectively

3. Commission rate = commission revenue / trading volume

4. Yield = foreign exchange (“FX”) revenue / trading volume. FX data is for major currencies (EUR, GBP, AUD, NZD, CHF, JPY, CAD, USD). FX revenues are reported as part of the Fixed Income Markets business

5. Net revenue rate reflects the Credit Card business only and excludes rewards liability adjustments. Credit Card net revenue rate was 10.6% and 11.1% for the years ended December 31, 2019 and 2014, respectively. Effective in the first quarter of 2020, the Merchant Services business was realigned from CCB to CIB as part of the Firm’s Wholesale Payments business. The revenue and expenses of the Merchant Services business will be reported across CCB, CIB and CB based primarily on client relationship

6. Dealogic as of January 2, 2020. Based on top 100 fee-paying deals
Notes on slide 14 – Banks have offered earnings growth and stability over the long-term – and among banks we have outperformed

1. Includes all current constituents of the S&P 500 index that have been publicly traded since 2000 (includes 385 unique companies), grouped by sector. The Financials sector has been further subdivided into Banks and Financials – Other. The data displayed represents the median value of the constituents of each sector.

2. Compound annual growth rate (“CAGR”) of pre-tax income (“PTI”) between 2000 and 2019. For companies that have not yet reported full-year 2019 PTI, the 2019 data point has been replaced by the last-twelve month PTI as of 3Q19; source FactSet as of 4Q19.

3. NTM PE = share price / consensus earnings per share (“EPS”) for the next twelve months (“NTM”); source FactSet as of January 31, 2020.

4. Earnings volatility is defined as the r-squared of PTI growth through time. R-squared is a statistical measure that represents the proportion of the variance for a dependent variable that is explained by an independent variable or variables in a regression model. Perfectly equal PTI growth by year equals a score of 100, whereas a perfectly random path for PTI equals a score of 0.
Notes on slide 15 – Balance sheet – accelerating deposit growth and remixing of interest-earning assets

1. Quarterly average loan growth excludes the impact of Home Lending (“HL”) loan sales on average loan balances in each period
2. Sec. borrowed/other includes receivable from customers, which are prime brokerage-related held-for-investment margin loans that are classified in accrued interest and accounts receivable, and all other interest-earning assets that are classified in other assets on the Consolidated Balance Sheets
3. Represents deposits with banks
4. Includes the impact of HL loan sales
Notes on slide 16 – Liquidity – level of HQLA has remained stable, while composition has changed

1. High-quality liquid assets ("HQLA") represent the amount of unencumbered liquid assets that qualify for inclusion in the liquidity coverage ratio ("LCR"), and excludes excess HQLA at JPMorgan Chase Bank, N.A. that are not transferable to non-bank affiliates.

2. LCR = HQLA / net cash outflows. Estimated net cash outflows are based on standardized stress outflow and inflow rates prescribed in the LCR rule, which are applied to the balances of the Firm’s assets, sources of funds, and obligations. The LCR is required to be a minimum of 100%.

3. Cash held at Federal Reserve Banks ("FRB") less required reserves and other restricted amounts.

4. Total end-of-period reserve balances of depository institutions with FRB. Source: FRB and the U.S. Department of the Treasury (FRB H.4.1). As of December 27, 2017, and December 25, 2019, respectively.

5. Available borrowing capacity at Federal Home Loan Banks ("FHLB") and the discount window at FRB as a result of collateral pledged by the Firm to such banks. Excludes the benefit of cash and securities reported in the Firm’s HQLA or other unencumbered securities that are currently pledged at the FRB discount window and other central banks.

6. Unencumbered marketable securities, such as equity securities and fixed income debt securities, include HQLA-eligible securities which are included as part of the excess liquidity at JPMorgan Chase Bank, N.A. that are not transferable to non-bank affiliates.
Notes on slide 17 – GSIB framework requires timely short-term recalibration

1. Global systemically important banks (“GSIB”)
2. JPMorgan Chase and peer calculations are based on Federal Reserve Form FR Y-15, Banking Organization Systemic Risk Report
3. Circular markers indicate a higher intra-year surcharge bucket than the surcharge currently in effect; capital requirements are based on year-end score
Notes on slide 18 – Capital targets remain consistent as we await SCB & GSIB updates

1. Stress capital buffer ("SCB")
2. Net of stock issued to employees
3. For an overview of the Firm’s business segment capital allocation methodology, see page 90 of the 2019 Form 10-K
Notes on slide 19 – Net interest income – we are not immune to the rate environment, but growth and mix will support NII in 2020 and beyond

1. See note 1 on slide 26
2. JPMorgan Chase’s outlook is based on implied rate curves as of February 21, 2020
Notes on slide 20 – Noninterest revenue – steady growth in volume-driven NIR

1. See note 1 on slide 26

2. Other includes PE gains/(losses), securities gains/(losses), credit adjustments, FX, gain/(losses) in CIB including Day 1 gains from Tradeweb, gains/(losses) on HL loan sales, card rewards liability adjustment, MSR risk-management revenue gains/(losses) and other non-core items

3. Firmwide mortgage origination volume was $115.9 billion and $86.9 billion for the years ended December 31, 2019 and 2018, respectively

4. CIB Markets revenue includes both NII and NIR
Notes on slide 21 – Overhead ratio – significant improvement driven by revenue growth and expense efficiencies

1. See note 1 on slide 26
2. See note 3 on slide 26
Notes on slide 22 – Noninterest expense – we expect a reduction in structural expenses to help fund our investment growth

1. See note 3 on slide 26
2. Includes compensation expense related to increased hiring of revenue-producing bankers
Notes on slide 23 – Credit – we remain vigilant despite a benign environment

1. Reflects net charge-offs/(recoveries) on average retained loans, and excludes the impact of PCI loans and write-offs in the PCI portfolio. See Note 4 on slide 26. The net charge-off/(recovery) rates including the impact of PCI loans were as follows: Home Lending, (0.05)%; and Firmwide, 0.60%

2. Excludes the impact of retail overdraft losses. CBB’s reported NCO rate, including retail overdraft losses was 1.11% in 2019