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Mastercard Incorporated Class A (MA-US) IT Services

- We reiterate our Strong Buy rating as MA continues to benefit from a strong global macro environment and strong consumer spending trends along with the ongoing expansion of its technology platform and adoption of new electronic payment technologies.
- Increases in switched transactions, cross-border volume, and growing GPV continue to drive accelerating Business Performance trends.
- MA is best positioned to dominate business transactions.
- MA continues to announce significant new business wins, including new co-branded cards and growth in existing product offerings.
- MA continues to grow its market share and competitive advantage through its ongoing investment and innovation in financial technology.
- 2019 will continue to be another record year as MA continues to benefit from positive global macroeconomic trends.
- MA's strong balance sheet and cash flow continue to drive ongoing investments in new growth initiatives, fund strategic acquisitions and enhance shareholder returns through ongoing dividend increases and share repurchases.
- MA is on our Research Focus List and in our Focus Opportunity Portfolio.



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Company Note

Mastercard Incorporated Class A (MA-US) IT Services

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Research Action:

Cost of Capital:

Economic Profit:

Market Value Added:

Future Growth Value:

Current Operations Value:

Reiterate rating Rating: Strong Buy **Prior Rating:** Strong Buy Price 08/21/2019: \$282.01 52 Week High / \$283.33 \$171.89 Key Data: (TTM as of Jun-19) **Excess Cash per Share:** \$6.59 **Annual Dividend:** \$1.32 **Dividend Yield:** 0.47% Avg. Volume (30 Day): 3.6M **Shares Outstanding:** 1,014.6M Float: 890.0M **Short Interest:** 5.7M SI % / Float 0.64% **Equity MV:** \$286.115.8M Sales TTM: \$15,707.0M 1.19 Beta: **EBITDAR:** \$10,166.5M NOPAT: \$7,824.1M **Total Invested Capital:** \$13,899.8M Return on Capital: 63.81%

6.82%

\$6,987.8M

\$273,855.1M

\$114,706.8M

\$173,048.1M

- We reiterate our Strong Buy rating as MA continues to benefit from a strong global macro environment and strong consumer spending trends along with the ongoing expansion of its technology platform and adoption of new electronic payment technologies. MA is benefiting from the increase in global electronic payments as the U.S. and other developed and developing economies around the world continue to drive increases in switched transactions, cross-border volume, and growing GPV (Gross Payment Volume). Ongoing growth in MA's core products, as well as new client wins continue to drive positive incremental growth. Recent acquisitions including Nets' account-to-account payment platform and bank payment facilitator Transfast and new partnerships including P27 further enable MA to meet increasing customer payment needs, including the growing area of real-time account-to-account and crossborder payments. MA continues to leverage its innovative ability to create unique solutions for specific verticals, including the growing gig economy, as it was selected by Lyft (LYFT-US, Buy Rated) to partner in the offering of the Lyft Direct MasterCard debit card and also provides its payment network for the recently launched Apple (AAPL, Strong Buy Rated) credit card. MA is also a partner in Facebook's (FB-US, Strong Buy Rated) launch of its Libra cryptocurrency and Calibra digital wallet. MA's strong brand equity and market-leading position, together with its innovative ability and global opportunities, will continue to drive greater Return on Capital (ROC), gains in Economic Profit, and increases in shareholder value creation. MA further enhances shareholder value through ongoing dividend increases and share repurchases. We believe further upside in the shares exists from current levels and continue to recommend purchase.
- Increases in switched transactions, cross-border volume, and growing GPV continue to drive accelerating Business
 Performance trends. For the 12 months ending June 2019, Net Sales Revenue increased 12.55% Y/Y from \$13.96 billion to \$15.71 billion. We forecast a further increase of 14% to \$17.91 billion over the NTM as GPV and increasing switching transactions continue to drive record levels of revenue. Economic Operating Cash Flow (EBITDAR) increased 15.31% Y/Y from \$8.82 billion to \$10.17 billion over the LTM. We forecast a further increase of 11.78% to \$11.36 billion over the NTM. Net Operating Profit After Tax (NOPAT) increased 41.17% Y/Y from \$5.54 billion to \$7.82 billion over the LTM. We forecast a further increase of 9.50% to \$8.57 billion over the NTM.



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Return on Capital (ROC) increased from 49.79% to 63.81% over the LTM. We forecast a slight decline to 59.49% over the NTM, but at that level, MA continues to be one of the strongest and most consistent Return on Capital generating companies in our research universe. Economic Profit (EP) increased 50.52% Y/Y from \$4.64 billion to \$6.99 billion over the LTM. We forecast a further increase of 13.43 to \$7.93 billion over the NTM. MA's exceptional Return on Capital will continue to drive significant increases in Economic Profit and greater shareholder value creation.

- MA is best positioned to dominate business transactions. MA recently announced the acquisition of the Corporate Services businesses of Nets, a leading European PayTech company, for \$3.2 billion, its largest acquisition so far. The acquisition will increase MA's real-time and bill payment technology and talent. The acquisition of Nets technology and staff further strengthens MA's existing account-toaccount (A2A) capabilities. MA continues to make key strategic acquisitions that further its industry-leading position and advanced technological infrastructure. Recently MA acquired bank payment facilitator Transfast, enabling MA to meet increasing customer payment needs including the growing area of real-time account-to-account and cross-border payments. MA is also leveraging its innovative ability to create unique solutions for specific verticals, including the growing gig economy, MA was selected by Lyft (LYFT-US, \$62.46) to partner in the offering of the Lyft Direct MasterCard debit card, providing Lyft drivers with instant access to their net earnings. In addition, Apple partnered with MA to launch its new innovative MasterCard Credit Card together with Goldman Sachs (GS-US, Non-Rated). In addition to partnering with Facebook on its Libra cryptocurrency and Calibra digital wallet, MA is also rumored to be developing its own cryptocurrency initiative as it continues to evolve from a card issuer and payment processor to a leading financial technology company.
- MA continues to announce significant new business wins, including new co-branded cards and growth in existing product offerings. In addition to launching the LYFT MasterCard Debit Card, MA continues to announce a strong cadence of new co-branded and partnership wins. Recent highlights include announcing a new co-branded partnership with growing online home remodeling marketplace operator Houzz. MA announced a new 10-year exclusive co-brand credit card with leading Latin American online travel agency Despegar which will integrate MA's loyalty program into its card offering. MA also renewed its credit card relationship with Germany's second-largest retail bank, DZ Bank, representing hundreds of cooperative banks across the country, and will continue to issue MasterCard Credit Cards to their customers.



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IT Services

In addition, MA signed a new agreement with Nationwide in the UK to provide their business debit card highlighting MA's strength in the small business space as Nationwide plans to launch a new business banking platform to over 5 million small businesses in the UK early next year. MA also won an exclusive debit card partnership with Scotiabank in Columbia and signed new long-term debit card agreements with two of the country's largest debit card issuers, Bancolombia and Davivienda.

- MA continues to grow its market share and competitive advantage through its ongoing investment and innovation in financial **technology.** With the launch of Masterpass, MA became the first network to deliver a digital payment service across all devices and all channels. MA is also investing in tokenization technology with its MasterCard Digital Enablement Service (MDSE) which facilitates contactless payments and digital secure remote payments. MA continues to expand the rollout of its tokenization service and add new issuers in new markets. MA continues to develop and incorporate artificial intelligence (AI) throughout its global network to increase security, eliminate false turndowns, and improve customer service. Al can help MA to monitor transaction patterns to eliminate fraud and detect money laundering. MA has also introduced the world's first authentication technology using iris scanning to authenticate online purchases with mobile phones. MA is also working with wearable device manufacturers to enable contactless payment capabilities.
- 2019 will continue to be another record year as MA continues to benefit from positive global macro-economic trends. MA continues to benefit from the global growth of electronic payment adoption together with the ongoing secular shift to electronic payments as it gains from both card-based and other types of electronic transactions, including the significant growth of ACH (Automated Clearing House electronic network)-based transfers. MA also benefits from a record level of low unemployment and wage growth that is increasing consumers' spendable income. MA continues to experience revenue growth from other business lines outside of traditional credit card fees as well. MA earns revenue from ACH payment facilitation along with prepaid card program management, anti-fraud solutions, loyalty reward services, and its Masterpass digital wallet.



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- MA's strong balance sheet and cash flow continue to drive ongoing investments in new growth initiatives, fund strategic acquisitions and enhance shareholder returns through ongoing dividend increases and share repurchases. As of June 2019, MA has \$6.72 billion, \$6.59 per share, of excess cash, which together with our projected \$11.36 billion in Economic Operating Cash Flow over the NTM, continues to drive its ongoing investment in innovation along with making strategic acquisitions and returning significant amounts of cash to shareholders. In 2018, MA increased its quarterly dividend 32% from \$0.25 a share to \$0.33 a share and continues to repurchase a significant number of outstanding shares. In December 2018, MA announced an additional open market purchase of \$6.5 billion worth of shares which followed a \$4 billion open market purchase announcement in December 2017. In the most recent quarter, MasterCard repurchased \$1.9 billion in stock along with an additional \$493 million in July.
- MA is on our Research Focus List and in our Focus Opportunity Portfolio. MA's leading industry position, strong brand equity, significant Return on Capital, and expanding growth opportunities continue to enhance its ability to generate increasing Economic Profit and greater shareholder value creation. MA is one of the best ways to play the ongoing secular shift to electronic payments and global growth of electronic payments.

Investment Thesis

MA continues to benefit from the ongoing transition to electronic-based payments driven by safety, convenience, loyalty programs, and purchase protections that electronic and card-based payments offer. MA is one of the most technologically advanced and innovative companies in the payment processing space and views MA as both a financial technology company and a card issuer and payment facilitator. MA's international revenue continues to grow as it increases its international market penetration and benefits from the ongoing adoption of electronic payments globally. MA's significant brand equity and innovative ability continue to create an opportunity to drive growth and gain greater market share in the global electronic payments market. MA continues to exhibit a very strong ability to generate increasing Returns on Capital and greater Economic Profit that continues to drive consistently increasing shareholder value creation. MA's substantial cash flow enables it to further enhance shareholder value through ongoing dividend increases and share repurchases.



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IT Services

Company Overview

Mastercard, Inc. (MA-US) is a leading financial technology company and the number-two global card network service provider, offering a range of services to financial institutions that support credit, debit, mobile, web-based and other types of electronic payments and related services in more than 150 currencies in 210 countries. Mastercard's global transaction and electronic payment processing solutions include facilitating the authorization, clearing, and settlement process of electronic transactions, as well as processing cross-border and currency conversion transactions. Mastercard's payment card brands include MasterCard, Maestro, and Cirrus. Mastercard is a leader in ACH (Automated Clearing House) transactions. Mastercard also operates the Cirrus ATM network.

Mastercard operates and reports revenue by five Business Segments: Transaction Processing: (26% of revenue); Rebates & Incentives: (24% of revenue); Domestic Assessments: (21% of revenue); Cross-Border Volume: (17% of revenue); and Other Revenues: (12% of revenue).

Mastercard reports revenue by two Geographic Segments: United States: (33% of revenue) and Other Countries (67% of revenue).



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Mastercard Incorporated Class A (MA-US)

IT Services

Financial Data

| Demand Deads | LTM | . TM | LTM | LTM | LTM | LTM | NITM | 5 V- | 0 V: | 0 |
|--|--------------------------------|---------------------------|---------------------------|--------------------------|----------------------------|----------------------|----------------------|---|---------------------|----------------------|
| Report Basis Reported Period Ending | LTM 06/30/2014 | LTM 06/30/2015 | LTM 06/30/2016 | LTM 06/30/2017 | LTM 06/30/2018 | LTM 06/30/2019 | NTM 06/30/2020 | 5 Yr Average | 3 Yr Average | Current Trend |
| | | | | | | | | | | |
| Net Sales Revenue | \$8,893.0 | \$9,539.0 | \$10,187.0 | \$11,423.0 | \$13,955.0 | \$15,707.0 | \$17,907.5 | \$12,162.2 | \$13,695.0 | \$16,807.3 |
| Sales Growth Sales Growth Trend | 13.74% | 7.26% | 6.79% | 12.13% 10.00% | 22.17% | 12.55% | 14.01% | 12.18% | 15.62% | 13.28% |
| Economic Operating Cash Flow (EBITDAR) | 12.13% \$5,562.4 | 9.85% \$5,950.7 | 6.98% \$6,244.5 | \$7,135.9 | 18.15% \$8,817.0 | 16.40% \$10,166.5 | 13.43% \$11,363.9 | 12.28% \$7,662.9 | 14.85% \$8,706.5 | 14.91% \$10,765.2 |
| EBITDAR Margin | 62.55% | 62.38% | 61.30% | 62.47% | 63.18% | 64.73% | 63.46% | 62.81% | 63.46% | 64.09% |
| EBITDAR Growth | 15.38% | 6.98% | 4.94% | 14.27% | 23.56% | 15.31% | 11.78% | 13.01% | 17.71% | 13.54% |
| Net Operating Profit Before Tax (NOPBT) | \$5,235.4 | \$5,539.7 | \$5,800.5 | \$6,666.9 | \$8,272.0 | \$9,565.5 | \$10,657.3 | \$7,168.9 | \$8,168.1 | \$10,111.4 |
| NOPBT Margin | 58.87% | 58.07% | 56.94% | 58.36% | 59.28% | 60.90% | 59.51% | 58.71% | 59.51% | 60.21% |
| NOPBT Growth | 15.26% | 5.81% | 4.71% | 14.94% | 24.08% | 15.64% | 11.41% | 13.03% | 18.22% | 13.53% |
| Cash Operating Income Tax | \$1,647.0 | \$1,382.2 | \$1,450.4 | \$1,845.8 | \$2,729.8 | \$1,741.4 | \$2,089.9 | \$1,829.9 | \$2,105.7 | \$1,915.7 |
| Economic Tax Effective Rate | 31.46% | 24.95% | 25.00% | 27.69% | 33.00% | 18.21% | 19.61% | 25.77% | 26.30% | 18.91% |
| Net Operating Profit After Tax (NOPAT) | \$3,588.4 | \$4,157.6 | \$4,350.1 | \$4,821.1 | \$5,542.2 | \$7,824.1 | \$8,567.4 | \$5,339.0 | \$6,062.5 | \$8,195.8 |
| NOPAT Margin | 40.35% | 43.58% | 42.70% | 42.20% | 39.72% | 49.81% | 47.84% | 43.60% | 43.91% | 48.83% |
| NOPAT Growth | 13.41% | 15.86% | 4.63% | 10.83% | 14.96% | 41.17% | 9.50% | 17.49% | 22.32% | 25.34% |
| Cash & Equivalents | \$6,254.0 | \$5,618.0 | \$6,989.0 | \$7,503.0 | \$8,294.0 | \$7,510.0 | \$8,518.4 | \$7,182.8 | \$7,769.0 | \$8,014.2 |
| Total Assets | \$14,375.0 | \$15,272.0 | \$16,282.0 | \$19,839.0 | \$22,471.0 | \$24,731.0 | \$28,051.8 | \$19,719.0 | \$22,347.0 | \$26,391.4 |
| Non - Interest Bearing Liabilities (NIBLs) | \$6,302.0 | \$7,021.0 | \$6,814.0 | \$8,223.0 | \$10,821.0 | \$10,994.0 | \$12,470.2 | \$8,774.6 | \$10,012.7 | \$11,732.1 |
| Net Assets | \$8,025.0 | \$8,219.0 | \$9,436.0 | \$11,520.0 | \$11,557.0 | \$13,636.0 | \$15,467.0 | \$10,873.6 | \$12,237.7 | \$14,551.5 |
| Economic Asset Adjustments | (\$107.6) | (\$54.0) | (\$13.2) | \$59.1 | (\$89.3) | \$263.8 | \$299.3 | \$33.3 | \$77.9 | \$281.5 |
| Net Operating Assets | \$7,917.4 | \$8,165.0 | \$9,422.8 | \$11,579.1 | \$11,467.7 | \$13,899.8 | \$15,766.3 | \$10,906.9 | \$12,315.6 | \$14,833.0 |
| Debt & Debt Equivalents | \$1,607.4 | \$1,648.0 | \$3,509.8 | \$5,552.1 | \$6,041.7 | \$8,819.8 | \$10.004.1 | \$5,114.3 | \$6,804.6 | \$9,412.0 |
| Equity & Equivalents | \$6,266.0 | \$6,404.0 | \$5,837.0 | \$5,852.0 | \$5,257.0 | \$5,008.0 | \$5,680.5 | \$5,671.6 | \$5,372.3 | \$5,344.2 |
| Total Capital - Financing Sources | \$7,873.4 | \$8,052.0 | \$9,346.8 | \$11,404.1 | \$11,298.7 | \$13,827.8 | \$15,684.6 | \$10,785.9 | \$12,176.9 | \$14,756.2 |
| Capital Adjustments | (\$221.0) | (\$207.0) | (\$217.0) | (\$167.0) | (\$273.0) | (\$332.0) | (\$376.6) | (\$239.2) | (\$257.3) | (\$354.3) |
| Net Capital Financing Sources | \$7,652.4 | \$7,845.0 | \$9,129.8 | \$11,237.1 | \$11,025.7 | \$13,495.8 | \$15,308.0 | \$10,546.7 | \$11,919.6 | \$14,401.9 |
| Net Working Capital | (\$7E7.4) | (\$1,080.1) | (\$1,650.7) | (\$4 G20 O) | (\$2,304.3) | (\$1,222.7) | (\$1,386.8) | (\$4 E77 7) | (\$1,719.3) | (\$1,304.7) |
| Cost of Net Working Capital | (\$757.4) (\$49.9) | (\$1,060.1) | (\$1,650.7) | (\$1,630.9) (\$120.9) | (\$2,304.3) | (\$1,222.1) | (\$1,366.6) | (\$1 , 577.7) (\$ 112.1) | (\$1,719.3) | (\$1,304.7) |
| % of Revenue | -0.56% | -0.71% | -0.91% | -1.06% | -1.14% | -0.77% | -0.76% | -0.92% | -0.99% | -0.76% |
| Operational Capital | (\$104.9) | (\$295.0) | (\$766.8) | (\$559.7) | (\$1,260.5) | \$721.2 | \$818.0 | (\$432.2) | (\$366.4) | \$769.6 |
| Cost of Operational Capital | (\$3.4) | (\$14.8) | (\$35.9) | (\$48.9) | (\$73.6) | (\$18.4) | (\$20.9) | (\$38.3) | (\$46.9) | (\$19.6) |
| % of Revenue | -0.04% | -0.15% | -0.35% | -0.43% | -0.53% | -0.12% | -0.12% | -0.32% | -0.36% | -0.12% |
| Productive Capital | \$2,181.1 | \$2,507.0 | \$1,829.2 | \$3,325.3 | \$2,756.5 | \$5,477.2 | \$6,212.6 | \$3,179.0 | \$3,853.0 | \$5,844.9 |
| Cost of Productive Capital | \$148.4 | \$173.2 | \$146.6 | \$189.9 | \$245.8 | \$280.8 | \$318.5 | \$207.3 | \$238.8 | \$299.7 |
| % of Revenue | 1.67% | 1.82% | 1.44% | 1.66% | 1.76% | 1.79% | 1.78% | 1.69% | 1.74% | 1.78% |
| Total Operating Capital | \$2,108.1 | \$3,024.0 | \$2,943.2 | \$4,647.3 | \$3,871.5 | \$7,175.2 | \$8,138.6 | \$4,332.2 | \$5,231.3 | \$7,656.9 |
| Cost of Total Operating Capital | \$150.3 | \$189.6 | \$201.7 | \$279.7 | \$344.2 | \$376.7 | \$427.3 | \$278.4 | \$333.6 | \$402.0 |
| % of Revenue | 1.69% | 1.99% | 1.98% | 2.45% | 2.47% | 2.40% | 2.39% | 2.26% | 2.44% | 2.39% |
| Non - Operating Capital | \$5,809.4 | \$5,141.1 | \$6,479.7 | \$6,931.9 | \$7,596.3 | \$6,724.7 | \$7,627.6 | \$6,574.7 | \$7,084.3 | \$7,176.1 |
| Cost of Non - Operating Capital | \$430.0 | \$404.6 | \$392.9 | \$494.2 | \$587.1 | \$488.4 | \$554.0 | \$473.4 | \$523.2 | \$521.2 |
| % of Revenue | 4.84% | 4.24% | 3.86% | 4.33% | 4.21% | 3.11% | 3.09% | 3.95% | 3.88% | 3.10% |
| Total Capital | \$7,917.4 | \$8,165.0 | \$9,422.8 | \$11,579.1 | \$11,467.7 | \$13,899.8 | \$15,766.3 | \$10,906.9 | \$12,315.6 | \$14,833.0 |
| Cost of Total Capital % of Revenue | \$580.4 6.53% | \$594.2 6.23% | \$594.6 5.84% | \$773.9 6.78% | \$931.3 6.67% | \$865.2 5.51% | \$981.3 5.48% | \$751.8 6.20% | \$856.8 6.32% | \$923.2 5.49% |
| % Of Nevertue | 0.55% | 0.23/8 | 3.04/6 | 0.70% | 0.07 /6 | 3.31/6 | 3.4076 | 0.2076 | 0.32/6 | 3.4976 |
| Cost of Capital (WACC) | 7.64% | 7.39% | 6.76% | 7.37% | 8.08% | 6.82% | 6.82% | 7.28% | 7.42% | 6.82% |
| Capital Structure | | | | | | | | | | |
| Debt & Debt Equivalents | \$1,607.4 | \$1,648.0 | \$3,509.8 | \$5,552.1 | \$6,041.7 | \$8,819.8 | \$10,004.1 | \$5,114.3 | \$6,804.6 | \$9,412.0 |
| Debt & Debt Equivalents % of Market Value | 1.91% | 1.55% | 3.56% | 4.16% | 2.90% | 3.20% | 3.20% | 3.11% | 3.30% | 3.20% |
| Preferred Equity | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |
| Preferred Equity % of Market Value | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Market Value of Common Equity | \$82,558.2 | \$104,334.3 | \$94,956.4 | \$127,998.8 | \$202,453.9 | \$267,138.7 | \$303,009.3 | \$159,376.4 | \$199,197.2 | \$285,074.0 |
| Common Equity % of Mark et Value | 98.09% | 98.45% | 96.44% | 95.84% | 97.10% | 96.80% | 96.80% | 96.89% | 96.70% | 96.80% |
| Total Economic Market Value (MV) | \$84,165.6 | \$105,982.3 | \$98,466.2 | \$133,551.0 | \$208,495.6 | \$275,958.6 | \$313,013.4 | \$164,490.7 | \$206,001.7 | \$294,486.0 |
| Total % | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| Excess Cash | \$5,809.4 | \$5,141.1 | \$6,479.7 | \$6,931.9 | \$7,596.3 | \$6,724.7 | \$7,627.6 | \$6,574.7 | \$7,084.3 | \$7,176.1 |
| Economic Enterprise Value | \$78,356.3 | \$100,841.2 | \$91,986.6 | \$126,619.1 | \$200,899.4 | \$269,233.9 | \$305,385.8 | \$157,916.0 | \$198,917.5 | \$287,309.9 |
| Average Capital | \$7,342.7 | \$7,748.7 | \$8,487.4 | \$10,183.5 | \$11,131.4 | \$12,260.8 | \$14,401.9 | \$9,962.4 | \$11,191.9 | \$13,331.3 |
| Capital ∆ | \$619.5 | \$192.6 | \$1,284.8 | \$2,107.3 | (\$211.4) | \$2,470.1 | \$1,812.2 | \$1,168.7 | \$1,455.3 | \$2,141.1 |
| Source: Company Data, Financial statements and Tigress F | Research | | | | | | | | | |

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Mastercard Incorporated Class A (MA-US)

IT Services

Financial Analysis

| NOPEIT Flammin | Report Basis | LTM | LTM | LTM | LTM | LTM | LTM | NTM | 5 Yr | 3 Yr | Current |
|--|---|------------|------------|------------|------------|------------|-------------|-------------|-----------|------------|-------------|
| Return on Enterprise Value (NOPAT EY) | | | | | | | | | | | |
| Coca of Capital (WACC) 7.34% 7.39% 8.76% 7.37% 8.00% 6.02% 9.00% 7.26% 7.45% 6.85% 6.85% 7.00% 7 | | | | | | | | | | | |
| Second Prof. February Spread 41,23% 66,27% 44,49% 39,97% 41,71% 56,99% 64,69% 44,62% 43,62% 43,62% 55,0 | Return on Capital (NOPAT / Average Capital) | 48.87% | 53.65% | 51.25% | 47.34% | 49.79% | 63.81% | 59.49% | 53.17% | 53.65% | 61.65% |
| Capital Charges ## 5621.0 \$772.8 \$773.9 \$776.5 \$897.6 \$832.6 \$332.6 \$730.0 \$12.0 \$1 | | | | | | | | | | | |
| Second Print (PD) Second Print | | | | | | | | | | | |
| Economic profit Improvement (EPI) \$397.9 \$397.6 \$191.2 \$289.3 \$572.1 \$23.00 \$1.72.1 \$1.00.00 \$1.41.1 \$1.00.00 \$1.00.00 \$1.00.00 \$1.00.00 \$1.00.00 \$1.00.00 \$1.00.00 | | | | | | | | | | | |
| ## Company Front Region of Subset 14 June | | | | | | | | | | | |
| Second Port Phare 12-20 S. 3.06 S. 3.3 S. 7.1 S. 7.6 | | | | | | | | | | | |
| ## SACAP Earlings Per Share ## \$2.70 ## \$2.7 | Economic Profit Margin on Sales | 34.04% | 37.58% | 37.07% | 35.63% | 33.27% | 44.49% | 44.26% | 37.61% | 37.80% | 44.38% |
| Performance Drivers Sales Growth Terrifor (PCC Sales Growth) 13,74% 7,29% 6,79% 12,05% 12,05% 13,07% | | | | | | | | | | | |
| Performance Drivers | | | | | | | | | | | |
| Salte Growth Tendt (ROC Sales Growth) 13 74% | Excess Cash Per Share | \$4.99 | \$4.52 | \$5.90 | \$6.48 | \$7.28 | \$6.59 | \$7.48 | \$6.15 | \$6.78 | \$7.04 |
| Sales Growth Tenrid (ROC Sales Growth) 12 (28%) 6 (28 | Performance Drivers | | | | | | | | | | |
| Sales Growth Tenrid (ROC Sales Growth) 12 (28%) 6 (28 | Sales Growth | 13 74% | 7 26% | 6 79% | 12 13% | 22 17% | 12 55% | 14 01% | 12 18% | 15 62% | 13 28% |
| EBITDAR Margim 62 25% 62 36% 19 30% 62 247% 63 16% 64 27% 63 16% 62 47% 63 16% 62 24% 62 36% 64 36% | | | | | | | | | | | |
| NOPET Growth | | | | | | | | 63.46% | | | |
| NOPET Growth 10 20% 5 81% 4 71% 1 4 94% 2 4 94% 1 5 6 | EBITDAR Growth | | | | | | | | | | |
| NOPAT Margin NOPAT | | | | | | | | | | | |
| NOPAT Growth Common Fetturing on Sales (EP / Sales) Fee Cash Flow (NOPAT - A Capital) Fee Cash Flow (NOPAT - A Capital) Free Cash Flow (NOPAT - Capital) Free C | | | | | | | | | | | |
| Economic Profit Margin on Sales (EP / Sales) 34.04% 37.58% 37.67% 35.63% 27.9% 44.49% 44.29% 37.61% 37.61% 34.00% 31.97% 50.000 31.00% | | | | | | | | | | | |
| Economic Profit Growth Spread (ROC-WACC) 15.13% 18.42% 2.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.7% 4.0.0.7% 4.0.7% 4.0.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.7% 4.0.0.0.7% 4.0.0.0.7% 4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | | | | | | | | | | | |
| Economic Return Spread (ROC-WACC) 41.23% 46.27% 44.49% 39.07% 41.71% 56.99% 52.67% 45.89% 64.22% 54.83% 61.000% 595.69% 595.69% 52.39% 50.000% 595.69% 595.69% 50.000% 595.69% | Economic Profit Growth | | | | | | | | | | |
| Economic Profit Memertum (AEP/Capital) 5,20% 7,11% 2,00% 2,02% 5,19% 17,38% 6,68% 8,40% 11,75% 6,000mic Profit Memertum Margin (AEP/Sales) 4,47% 6,85% 18,85% 2,00% 10,30% 11,83% 22,00% 13,43% 12,00% 11,43% 12,00% 11,45% 17,50% 10,00% 10,00% 11,45% | Economic Return Spread (ROC-WACC) | 41.23% | 46.27% | 44.49% | 39.97% | 41.71% | 56.99% | 52.67% | 45.89% | 46.22% | 54.83% |
| Economic Profit Momentum Margin (AEP/Sales) 4.47% 5.85% 1.88% 2.88% 4.10% 14.93% 5.24% 5.87% 7.20% 10.09% Capital Growth Margin (AEP/Sales) 4.81% 1.25% 1.10% 1.83% 1.27% 1.10% 1.14% 1.10 | Economic Return Ratio (ROC / WACC) | | | | | | | | | | |
| Capital Growth 6, 8, 8% 2, 5% 16, 39% 23, 08% 1, 1,89% 22, 09% 13, 3% 12, 09% 14, 53% 17, 52% Capital Turns 1,100 | | | | | | | | | | | |
| Capital Turns | | | | | | | | | | | |
| EVC Acceleration Margin | | | | | | | | | | | |
| ## Factors Risk Factors Risk Fa | | | | | | | | | | | |
| Free Cash Flow (NOPAT - A Capital) \$2,969.0 \$3,965.0 \$3,965.0 \$3,065.3 \$2,713.7 \$5,753.7 \$5,753.7 \$5,754.0 \$44,13% \$40,02% \$3,67% \$41,10% \$40,02% \$3,67% \$41,10% \$40,02% \$3,67% \$41,10% \$41,90% Free Cash Flow Writel (FCF / Capital) \$3,86% \$3,74% \$3,11% \$2,03% \$2,76% \$1,14% \$2,10% \$3,14% \$2,10% \$3,27% \$4,110,3 \$4,607.1 \$4,100% \$3,67% \$44,11% \$40,02% \$3,67% \$41,10% \$41,90% \$65,25% \$65,3 | EVC Acceleration Spread | 6.10% | 7.59% | 2.47% | 3.47% | 5.62% | 21.07% | 7.65% | 5.50% | 10.75% | 14.67% |
| Free Cash Flow Rate (FCF / Capital) 38.80% 50.54% 33.57% 24.15% 52.18% 39.67% 44.13% 40.02% 38.67% 41.90% Free Cash Flow Vield (FCF / CMV) 3.53% 3.74% 51.01% 21.01% 30.57% 54.01% 54.00% 65.35 | Risk Factors | | | | | | | | | | |
| Free Cash Flow Yield (FCF / MV) | Free Cash Flow (NOPAT - Δ Capital) | \$2,969.0 | \$3,965.0 | \$3,065.3 | \$2,713.7 | \$5,753.7 | \$5,354.0 | \$6,755.2 | \$4,170.3 | \$4,607.1 | \$6,054.6 |
| Total Debt / Total Capital Cap | | | | | | | | | | | |
| Total Debt / EBITDAR | | | | | | | | | | | |
| Excess Cash Financial Leverage ((Total Debt - Excess Cash) 4-9% 3-3.0% 3-0.0% 5-0.0% 5-0.0% 0-0 | | | | | | | | | | | |
| Financial Leverage ((ITotal Debt - Excess Cash) / 4.99% | | | | | | | | | | | |
| Pension Leverage (Net Pension Liability / MV) | | | | | | | | | | | |
| Stock Price Volatility 2.61 2.76 2.90 2.38 2.10 2.91 2.91 2.99 2.47 2.91 | | -0.03% | -0.02% | 0.01% | 0.01% | 0.01% | 0.00% | 0.00% | 0.00% | 0.01% | 0.00% |
| Sales Index (NIL Sales) 9.99 9.16 9.23 9.34 9.54 9.66 9.79 9.99 9.90 9.12 12.53 12.66 11.93 12.61 12.62 12.63 12.65 11.93 12.10 12.25 12.63 12.66 11.93 12.10 12.25 12.63 12.66 11.93 12.10 12.25 12.63 12.66 11.93 12.10 12.25 12.63 12.66 11.93 12.10 12.25 12.63 12.66 11.93 12.10 12.1 | Equity Risk Index (S&P 500 = 1.00) | | | | | | | | | | |
| Market Value Index (NI. Market Value) | | | | | | | | | | | |
| Size Index (NL Sales: MV) | | | | | | | | | | | |
| Beta 1.28 | | | | | | | | | | | |
| Valuation Measures Total Economic Market Value (MV) \$84,165.6 \$105,982.3 \$98,466.2 \$133,551.0 \$208,495.6 \$275,958.6 \$313,013.4 \$164,490.7 \$206,001.7 \$294,486.0 \$200,000 \$200,000 \$200,000 \$100.00% \$100.00% \$100.00% \$105.00 | | | | | | | | | | | |
| Valuation Measures Total Economic Market Value (MV) \$84,165.6 \$105,982.3 \$98,466.2 \$133,551.0 \$208,495.6 \$275,958.6 \$313,013.4 \$164,490.7 \$206,001.7 \$294,486.0 Economic Enterprise Value \$78,356.3 \$100,841.2 \$91,986.6 \$126,619.1 \$200,899.4 \$269,233.9 \$305,385.8 \$157,916.0 \$198,917.5 \$287,309.9 Equity Market Value \$22,558.2 \$104,334.3 \$94,956.4 \$127,998.8 \$202,453.9 \$267,138.7 \$303,009.3 \$159,376.4 \$199,197.2 \$285,074.0 Total Capital \$77,917.4 \$8,166.0 \$94,422.8 \$115,791.5 \$11,467.7 \$13,899.8 \$15,766.3 \$10,909.9 \$12,316.6 \$14,833.0 Market Value Created MVC (MV - Capital) \$76,248.2 \$97,817.3 \$89,043.4 \$121,971.8 \$197,027.9 \$262,058.7 \$297,247.2 \$153,633.8 \$193,686.2 \$279,653.0 Market Value Created MVC (MV - Capital) \$63,04% \$1198.01% \$944.98% \$1053,38% \$1718.11% \$1885.34% \$1699,90% \$122,80% \$1414.28% \$1668.42% \$102,446.0 \$1668.42% \$1699.90% \$1262,80% \$1414.28% \$1668.83% \$100,400 \$100.00% \$100 | TFP Adjusted Beta | | | | | | | | 1.19 | | |
| Total Economic Market Value (MV) \$84,165.6 \$105,982.3 \$98,466.2 \$133,551.0 \$208,495.6 \$275,958.6 \$313,013.4 \$164,490.7 \$206,001.7 \$294,486.0 Economic Enterprise Value \$78,356.3 \$100,841.2 \$91,986.6 \$126,619.1 \$200,899.4 \$269,233.9 \$305,385.8 \$157,916.0 \$198,917.5 \$287,309.9 Equity Market Value \$82,558.2 \$104,334.3 \$94,956.4 \$127,998.8 \$202,453.9 \$267,138.7 \$303,009.3 \$159,376.4 \$199,917.5 \$287,309.9 Market Value Created MVC (MV - Capital) \$76,248.2 \$97,817.3 \$89,043.4 \$121,971.8 \$197,027.9 \$262,058.7 \$297,247.2 \$153,583.8 \$193,686.2 \$279,653.0 Market Value Created MVC (MV - Capital) \$87,049 \$1025,45% \$74.09% \$1067,77% \$1411.88% \$1668.48.2% \$199,906.2 \$279,653.0 Market Value (EP / WACC) \$39,619.9 \$48,518.3 \$55,851.2 \$55,230.2 \$57,444.5 \$102,446.0 \$116,202.1 \$63,317.3 \$70,493.2 \$109,324.1 \$100,906.9 \$100,00% \$100.00% \$100 | Stock Price Volatility | 2.61 | 2.76 | 2.80 | 2.38 | 2.10 | 2.91 | 2.91 | 2.59 | 2.47 | 2.91 |
| Economic Enterprise Value \$78,356.3 \$100,841.2 \$91,986.6 \$126,619.1 \$200,899.4 \$269,233.9 \$305,385.8 \$157,916.0 \$198,917.5 \$287,309.9 \$104,334.3 \$94,956.4 \$127,998.8 \$202,453.9 \$267,138.7 \$303,099.3 \$159,376.4 \$199,197.2 \$285,074.0 \$704 Capital \$7,917.4 \$8,165.0 \$9,422.8 \$11,579.1 \$11,467.7 \$13,899.8 \$15,766.3 \$10,906.9 \$12,315.6 \$14,833.0 \$100,000 \$100.00% \$10 | Valuation Measures | | | | | | | | | | |
| Equity Market Value \$82,558.2 \$104,334.3 \$94,956.4 \$127,988.8 \$202,453.9 \$267,138.7 \$303,009.3 \$159,376.4 \$199,197.2 \$285,074.0 \$100000000000000000000000000000000000 | | | | | | | | | | | |
| Total Capital \$7,917.4 \$8,165.0 \$9,422.8 \$11,579.1 \$11,467.7 \$13,899.8 \$15,766.3 \$10,906.9 \$12,315.6 \$14,833.0 \$10,006.9 \$12,015.6 \$14,833.0 \$10,006.9 \$12,015.6 \$14,833.0 \$10,006.9 \$12,015.6 \$14,833.0 \$10,006.9 \$12,015.6 \$14,833.0 \$10,006.9 \$12,015.6 \$14,006.9 \$12,015.6 \$12,015.6 \$14,006.9 \$12,015.6 \$14,006.9 \$12,015.6 \$12,015.6 \$14,006.9 \$12,015.6 \$14,006.9 \$12,015.6 \$12,015.6 \$14,015.1 \$12,0 | Economic Enterprise Value | | | | | | | | | | |
| Market Value Created MVC (MV - Capital) \$76,248.2 \$97,817.3 \$89,043.4 \$121,971.8 \$197,027.9 \$226,058.7 \$297,247.2 \$153,583.8 \$193,686.2 \$279,653.0 MVC Margin (MVC / Sales) 857,40% 1025,45% 874.09% 1067,77% 1411.88% 1668.42% 1659,90% 11262.80% 1414.28% 1663.88% MVC Spread (MVC / Capital) 963.04% 1198.01% 944.98% 1053.38% 1718.11% 1885.34% 1408.14% 1572.69% 1885.34% Current EVC Value (EP / WACC) \$39,619.9 \$48,518.3 \$55,861.2 \$55,230.2 \$57,444.5 \$102,446.0 \$116,202.1 \$63,317.3 \$70,493.2 \$109,324.1 Current Operations Value Per Share \$38.78 \$48.30 \$56.74 \$59.58 \$64.27 \$110.19 \$118.62 \$66.56 \$76.44 \$114.52 Future Growth Value (MVC - EVA Value) \$37,203.0 \$49,715.3 \$34,127.6 \$68,137.3 \$139,919.7 \$161,251.8 \$182,409.4 \$91,211.1 \$124,316.6 \$67.44 \$111.52 Future Growth Value Reliance (FG | | | | | | | | | | | |
| MVC Margin (MVC / Sales) | | | | | | | | | | | |
| MVC Spread (MVC / Capital) 963.04% 1198.01% 944.98% 1053.38% 1718.11% 1885.34% 1885.34% 1408.14% 1572.69% 1885.34% Current EVC Value (EP / WACC) \$39,619.9 \$48,518.3 \$55,851.2 \$55,230.2 \$57,444.5 \$102,446.0 \$110,202.1 \$63,317.3 \$70,493.2 \$109,324.1 \$20,400.0 \$110,000% 100.00% 10 | | | | | | | | | | | |
| Current EVC Value (EP / WÁCC) \$39,619,9 \$48,518.3 \$55,851.2 \$55,230.2 \$57,444.5 \$102,446.0 \$116,202.1 \$63,317.3 \$70,493.2 \$109,324.1 \$10.0000 \$100.00% \$100. | | | | | | | | | | | |
| Current Operations Value Per Share \$8.8.78 \$48.30 \$56.74 \$59.58 \$64.27 \$110.19 \$118.62 \$66.56 \$76.44 \$114.52 \$15.00 \$110.00 \$100.00% \$100. | Current EVC Value (EP / WACC) | \$39,619.9 | \$48,518.3 | \$55,851.2 | \$55,230.2 | \$57,444.5 | \$102,446.0 | \$116,202.1 | | \$70,493.2 | \$109,324.1 |
| Future Growth Value (MVC - EVA Value) \$37,203.0 \$49,715.3 \$34,127.6 \$68,137.3 \$139,919.7 \$161,251.8 \$182,409.4 \$91,211.1 \$124,316.6 \$171,830.6 \$182,409.4 | | | | | | | | | | | |
| Future Growth Value Reliance (FGV / MV) | | | | | | | | | | | |
| Share Price \$73.47 \$93.48 \$88.06 \$121.45 \$196.52 \$264.53 \$264.53 \$152.81 \$194.17 \$264.53 Dividend Yield 0.53% 0.63% 0.83% 0.70% 0.49% 0.47% | | | | | | | | | | | |
| Dikidend Yield 0.53% 0.63% 0.83% 0.70% 0.49% 0.47% Total Shareholder Return (TTM) 28.42% 27.87% 4.97% 38.62% 62.31% 35.08% 0.00% 42.23% 27.07% 36.24% MV to IC Ratio 10.63X 12.98X 10.45X 11.53X 18.18X 19.85X 15.08X 16.73X 19.85X EV / SEITDAR Multiple 14.09X 16.95X 14.73X 17.74X 22.79X 26.48X 26.87X 20.61X 22.85X 26.69X EV / NOPBIT Multiple 14.97X 18.20X 15.86X 18.99X 24.29X 28.15X 28.66X 22.03X 24.35X 28.11X EV / NOPBIT Multiple 21.84X 24.25X 21.15X 26.26X 36.25X 34.41X 35.65X 29.58X 32.81X 35.06X EV / EP Multiple 25.88X 28.13X 24.36X 31.11X 43.27X 38.53X 38.53X 34.24X 38.01X 38.53X Future Growth Value (% of MV) 44.20% 46.91% | Chara Dring | | | | | | | | | | |
| Total Shareholder Return (TTM) 28.42% 27.87% 4.97% 38.62% 62.31% 35.08% 0.00% 42.23% 27.07% 36.24% MV to IC Ratio 10.63X 12.98X 10.45X 11.53X 18.18X 19.85X 19.85X 15.08X 15.08X 16.73X 19.85X EV / EBITDAR Multiple 14.09X 16.95X 14.73X 17.74X 22.79X 26.48X 26.87X 20.61X 22.85X 26.69X EV / NOPBIT Multiple 14.97X 18.20X 15.86X 18.99X 24.29X 28.15X 28.66X 22.03X 24.35X 28.41X EV / NOPAT Multiple 21.84X 24.25X 21.15X 26.26X 36.25X 34.41X 35.65X 29.58X 32.81X 35.06X EV / EP Multiple 25.86X 28.33X 24.36X 31.11X 43.27X 38.53X 34.24X 38.01X 38.53X Future Growth Value (% of MV) 44.20% 46.91% 34.66% 51.02% 67.11% 58.43% 58.28% 55.45% 60.35% 58.35% Market Value (COV + FGV %) 100.00% | | | | | | | | Ψ204.33 | Ψ102.01 | ψ134.17 | Ψ204.00 |
| MV to IC Ratio 10.63X 12.98X 10.45X 11.53X 18.18X 19.85X 19.85X 15.08X 16.73X 19.85X 19.85X 15.08X 16.73X 19.85X 15.08X 16.73X 19.85X 15.08X 16.73X 19.85X 15.08X 16.73X 19.85X 1 | | | | | | | | 0.00% | -42.23% | 27.07% | 36.24% |
| EV / RBITDAR Multiple 14.99X 16.95X 14.73X 17.74X 22.79X 26.48X 26.67X 20.61X 22.85X 26.69X | MV to IC Ratio | | | | | | | | | | 19.85X |
| EV / NOPAT Multiple 21.84X 24.25X 21.15X 26.26X 36.25X 34.41X 35.65X 29.58X 32.81X 35.06X EV / EP Multiple 25.88X 28.13X 24.36X 31.11X 43.27X 38.53X 38.53X 34.24X 38.01X 38.05X 29.58X 38.05X 38.53X 38.25X 38.05X | EV / EBITDAR Multiple | 14.09X | 16.95X | 14.73X | 17.74X | 22.79X | 26.48X | 26.87X | 20.61X | 22.85X | 26.69X |
| EV / EP Multiple 25.88X 28.13X 24.36X 31.11X 43.27X 38.53X 38.53X 34.24X 38.01X 38.53X Future Growth Value (% of MV) 44.20% 46.91% 34.66% 51.02% 67.11% 58.43% 58.28% 55.45% 60.35% 58.35% Current Operations Value (% of MV) 55.80% 53.09% 65.34% 48.89% 32.89% 41.57% 41.72% 44.55% 39.65% 41.65% Market Value (COV + FGV %) 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% | EV / NOPBIT Multiple | | | | | | | | | | 28.41X |
| Future Growth Value (% of MV) 44.20% 46.91% 34.66% 51.02% 67.11% 58.43% 58.28% 55.45% 60.35% 58.35% Current Operations Value (% of MV) 55.80% 53.09% 65.34% 48.98% 32.89% 41.57% 44.72% 44.55% 39.65% 41.65% Market Value (COV + FGV %) 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% | | | | | | | | | | | |
| Current Operations Value (% of MV) 55.80% 53.09% 65.34% 48.98% 32.89% 41.57% 41.72% 44.55% 39.65% 41.65% Market Value (COV + FGV %) 100.00% | | | | | | | | | | | |
| Market Value (COV + FGV %) 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% | | | | | | | | | | | |
| | | | | | | | | | | | |
| | Basic Shares Outstanding | | 1,165.0 | 1,134.0 | 1,098.0 | 1,067.0 | 1,041.0 | | 1,101.0 | 1,068.7 | 1,071.0 |

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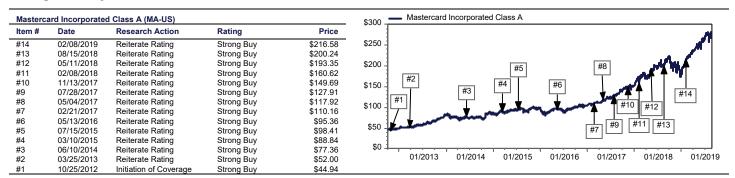


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Mastercard Incorporated Class A (MA-US)

IT Services

Ratings History



Tigress Research Methodology Overview

We employ proprietary quantitative valuation models combined with dynamic fundamental analysis based on the principles of Economic Profit to formulate timely and insightful investment ratings, analysis, strategies, and recommendations.

We make key adjustments to reported financial data eliminating GAAP-based accounting distortions and measuring all companies on a cash operating basis

Our proprietary research framework is a multi-factor model that scores and ranks companies based on their risk-adjusted ability to create Economic Profit relative to their current market value focusing on three key components:

Business Performance: Measuring economic profitability, growth and operating efficiency.

Risk: Measuring business sustainability, volatility, strength, and consistency.

Valuation: Linking business performance to market value. Measuring value created relative to capital employed and enterprise multiples of economic profit and cash flow.

We score and rank 24 key measurements of performance, risk, and value into relative market and industry investment recommendations.

Glossary of Key Terms and Measures

Excess Cash per Share: Excess Cash per Share is the amount of excess cash divided by basic shares outstanding. Excess Cash consists of all

cash and short-term securities less operating cash needed to run the business. Operating Cash is 5% of TTM net sales

revenue

EBITDAR: Earnings Before Interest, Taxes, Depreciation, Amortization, and Restructuring and Rent Costs. This is especially

important when comparing companies that use a significant amount of leased assets like restaurants and retailers.

NOPAT: Net Operating Profit after Tax represents a company's after-tax cash operating profit excluding financing costs.

Total Invested Capital: Total Invested Capital the total cash investment that shareholders and debt holders have made during the life of the

company.

Return on Capital: Return on Capital equals NOPAT divided by Total Invested Capital. It is a key measure of operating efficiency. ROC

quantifies how well a company generates cash flow relative to the capital invested in its business.

Cost of Capital: Is the proportionately weighted cost of each category of capital – common equity, preferred equity and debt.

Economic Profit: Economic Profit is the net operating income after tax less the opportunity cost of the total capital invested. It is the most

important driver of shareholder value.

Current Operations Value: Current Operations Value is the portion of market value based on the discounted present value of the current earnings

stream assuming it remains constant forever.

Future Growth Value: Future Growth Value is the portion of market value based on un-earned Economic Profit.

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Rating Distribution (08/21/2019)

Analyst Certification

I, Ivan Feinseth, hereby certify that the views expressed herein accurately reflect my personal views about the subject company and their securities and that I have not been and will not be directly or indirectly compensated for expressing specific recommendations or views in the report.

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