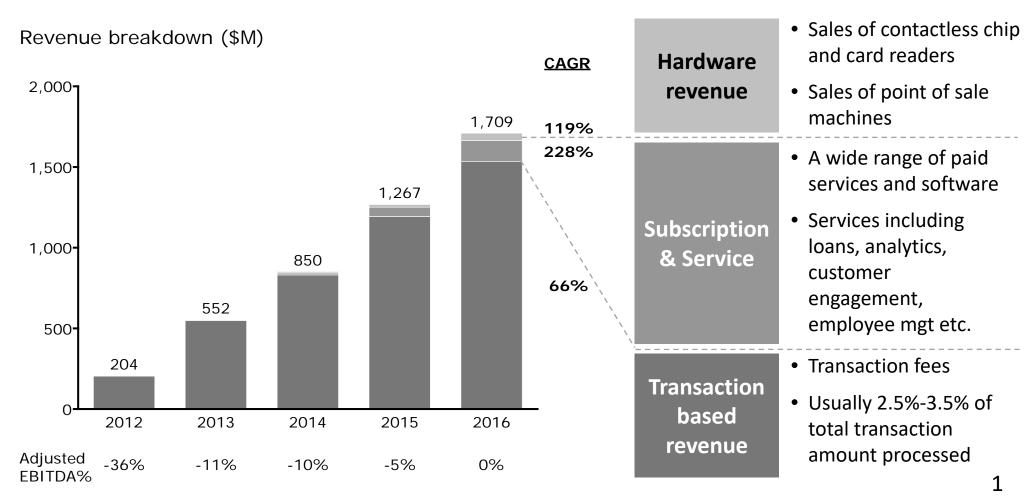


Square Inc. NYSE: SQ

Yale School of Management Mengxi Yu, Walter Liu, Xiaolong Zhu, Shijing Liu

Square Inc. (SQ) has three major revenue streams and all have enjoyed significant growth in the past 5 years

Square, Inc. (NYSE:SQ) was founded in 2010 and went public in Nov 2015. It is a commerce ecosystem that combines software with hardware to enable sellers to turn mobile devices and computing devices into payments and point-of-sale solutions.



Despite recent outperformance, we believe SQ is uniquely positioned to capture long term growth

HISTORICAL PERFORMANCE



Market Cap: 15.74B

52 Week Range: 11.43 - 39.73

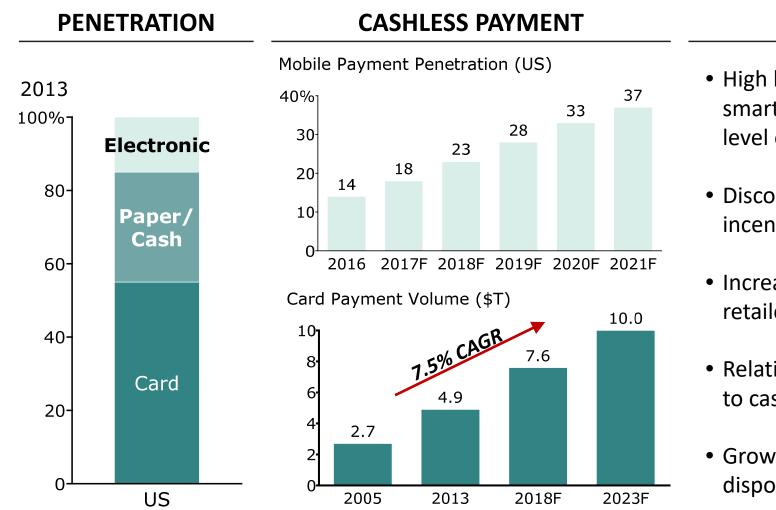
Average Volume: 7,566,393

PE Ratio: NA

INVESTMENT THESIS

- 1 SQ is expected to benefit from the continuing increase of cashless payment penetration in the US
- 2 SQ is well position to capture the unmet needs for Small & Median Enterprises through value add services beyond payment
- SQ could ride on the continuous **ecommerce growth** to further tap into **online payment**
- Strong brand equity and first mover advantage enables SQ to **expand further internationally**

US market still expect fast growth in cashless payment



KEY DRIVERS

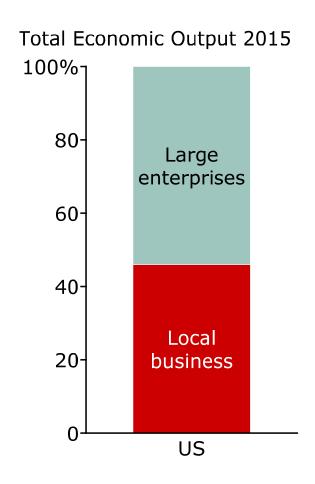
- High level adoption of smartphones and increase level of convenience
- Discount and promotional incentives to consumers
- Increasing amount of online retailers
- Relatively lower risk compared to cash and check
- Growing economy and disposable income

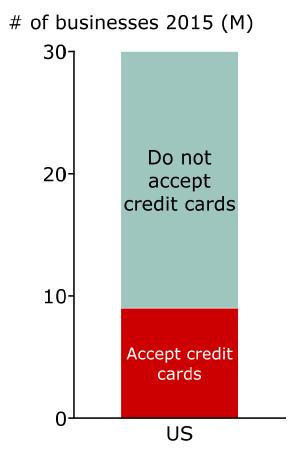
2 SMEs (local businesses and start-ups) present sizable growth potential for payment providers

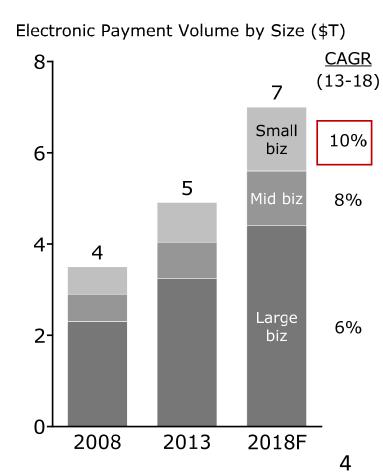
OF US OUTPUT...

...MAJORITY OF WHICH STILL DON'T ACCEPT CARDS...

...AND THEY ARE EXPECTED TO ENJOY FASTED GROWTH







2 Leveraging its leadership and customer base in payment, SQ is tapping into the sizable SME software market

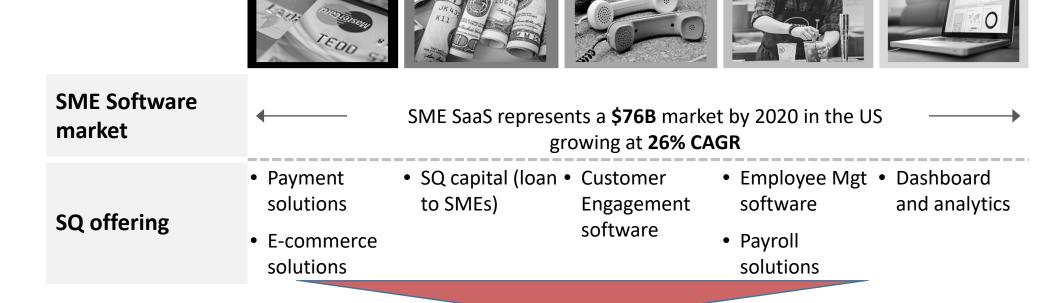
CRM

HR

Analytics

Financing

Payment

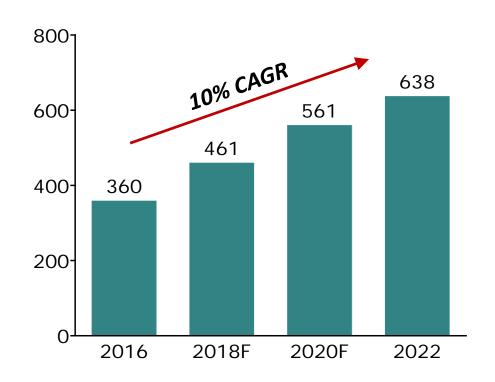


- 100k SQ users connected to the Square App Marketplace (proxy of users for value add services)
- Payment system brought in sticky/loyal customer base with accurate data access, presenting opportunities to bundle and cross sell services and software subscriptions
- SME software market are still nascent, SQ is well positioned to penetrate further

3 As the e-commerce continues to penetrate and SMEs go online, SQ will be able to share part of the growth

ECOMMERCE EXPECTED TO CONTINUE GROW IN US

US Retail Ecommerce Revenue (\$B)



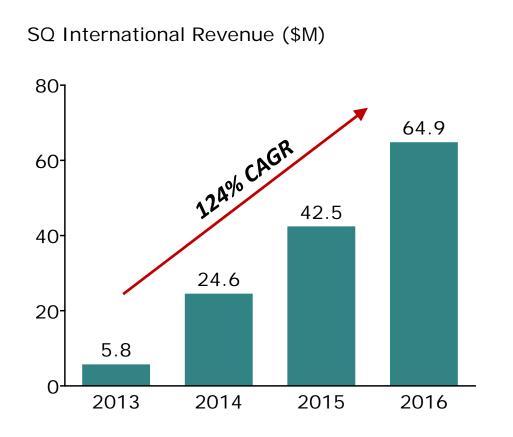
SQ COULD SHARE THE GROWTH

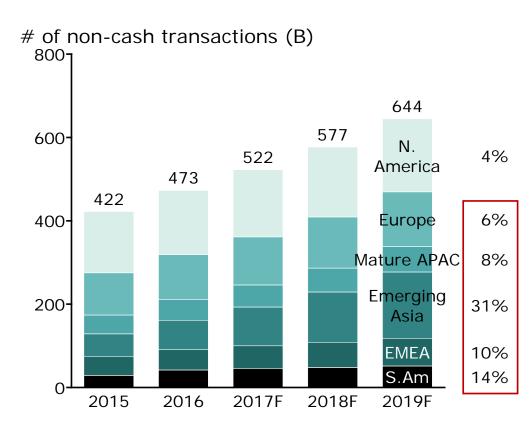
- Key players (e.g. Amazon, eBay, Stripe, PayPal) in e-commerce payment enjoyed high growth in the past years
- SQ customers (esp. SMEs) are migrating to online channels as e-commerce continues to penetrate
- SQ established a full e-commerce payment solutions which is easy to migrate for current brick & mortar customers
- Competitive fee rates compared with key competitors, attractive for both existing and new customers

4 SQ started international expansion, however large amount of growth opportunities still exist

SQ GREW FAST INTERNATIONALLY...

...AND ATTRACTIVE OPPORTUNITIES PRESENTED AT INTERNATIONAL MARKETS





DCF valuation suggests share price at \$42.84, based on SQ's network effect and overall SME growth in the U.S.

Discounted Cash Flow - SQ	2014A	2015A	2016A	2017E	2018E	2019E	2020E	2021E
GPV	23,779.0	35,631.0	49,683.0	65,853.7	85,329.1	108,464.2	135,004.7	164,995.3
YoY % Change	60.5%	49.8%	39.4%	32.5%	29.6%	27.1%	24.5%	22.2%
Total Net Revenue	850.1	1,267.1	1,708.8	2,220.2	2,898.1	3,711.0	4,652.8	5,727.7
Total Cost of Revenue	(624.2)	(897.1)	(1,132.7)	(1,384.9)	(1,783.5)	(2,244.1)	(2,778.6)	(3,372.7)
Gross Profit	225.9	370.0	576.1	835.3	1,114.7	1,466.9	1,874.2	2,355.0
% margin	26.6%	29.2%	33.7%	37.6%	38.5%	39.5%	40.3%	41.1%
Total Operating Expenses	(376.6)	(544.5)	(746.5)	(890.7)	(1,075.9)	(1,303.6)	(1,548.5)	(1,817.6)
Other Adjustments	82.8	133.3	215.4	195.9	222.4	251.1	292.1	343.8
Adjusted EBITDA	(67.7)	(41.0)	45.3	140.7	261.3	414.5	618.0	881.4
% margin	-8.0%	-3.2%	2.6%	6.3%	9.0%	11.2%	13.3%	15.4%
Less: Depreciation and Amortization	(18.6)	(27.6)	(37.7)	(39.8)	(46.0)	(53.2)	(65.6)	(82.0)
Adjusted EBIT	(86.3)	(68.6)	7.6	101.0	215.3	361.3	552.4	799.4
Less: Taxes	(0.8)	(1.5)	0.1	4.5	(10.8)	(126.5)	(193.3)	(279.8)
Plus: Depreciation and Amortization	18.6	27.6	37.7	39.8	46.0	53.2	65.6	82.0
Less: Capex	(28.8)	(37.0)	(25.0)	(30.0)	(39.6)	(51.5)	(65.6)	(82.0)
Plus: (Increase) / Decrease in NWC	(95.0)	(153.0)	(51.0)	(57.2)	(55.0)	(68.2)	(78.3)	(97.9)
Unlevered FCF	(192.3)	(232.4)	(30.7)	58.0	156.0	168.3	280.7	421.8
WACC				9.4%	9.4%	9.4%	9.4%	9.4%
Discount Period				0.5	1.5	2.5	3.5	4.5
Discount Factor				1.0	0.9	0.8	0.7	0.7
Discount FCF				149.1	147.1	224.2	308.0	414.8

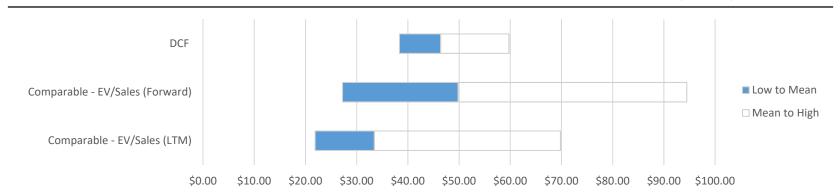
Valuation Summary	Base	Bull	Bear	
Enterprise Value	13,726.9	15,127.4	12,086.6	
Add: Cash	888.9	888.9	888.9	
Less: Total Debt	(354.2)	(354.2)	(354.2)	
Less: Capital Lease Obligations	(3.0)	(3.0)	(3.0)	
Implied Equity Value	14,258.5	15,659.0	12,618.3	
Fully Diluted Shares Outstanding	332.8	333.7	331.5	
Implied Share Price	\$42.84	\$46.92	\$38.06	
Implied Multiples				
2018E Adjusted Revenue	1,278.2	15,127.4	12,086.6	
2018E Adjusted EBITDA	261.3	1,294.6	1,265.9	
EV / 2018E Adjusted Revenue	10.7x	264.0	260.0	
EV / 2018E Adjusted EBITDA	52.5x	11.7x	9.5x	

TERMINAL VALUE ANALYSIS	Base	Bull	Bear
Terminal Year Perpetuity Growth	3.0%	3.0%	2.5%
WACC	9.4%	9.4%	9.4%
Terminal Year FCF	1,309.3	1,450.8	1,221.2
Terminal Value	21,070.9	23,348.4	18,140.7
Terminal Year Adjusted EBITDA	2,474.9	2,740.3	2,303.8
Implied Exit Multiple	8.5x	8.5x	7.9x
Discount Period	7.5	7.5	7.5
Discount Factor	0.5	0.5	0.5
PV of Terminal Value	10,741.2	11,902.2	9,247.5
Terminal Value as a % of EV	78.2%	78.7%	76.5%

Note: key assumptions available upon request

Implied valuation using comparable companies is inline with DCF model, suggesting a share price around \$46-\$50

SQ'S IMPLIED SHARED PRICE IS AVERAGING AROUND \$46-\$50



COMPARABLE COMPANIES ARE OF SIMILAR SIZE AND CHARACTERISTICS

	Square, Inc. (NYSE: SQ)	Global Payments Inc. (NYSE:GPN)	Vantiv, Inc. (NYSE:VNTV)	FleetCor Technologies, Inc. (NYSE:FLT)	First Data Corporation (NYSE:FDC)	Total System Services, Inc. (NYSE:TSS)
Mkt Cap	14,154.6	15,731.2	11,263.3	16,170.2	15,763.6	13,297.6
EV	14,721.6	19,969.1	15,976.2	19,871.9	36,848.6	15,857.3
Revenue (LTM)	2,050.1	4,276.5	3,915.9	2,154.5	7,991.0	4,786.9
Revenue LTM growth (%)	25.69%	4.50%	12.65%	23.31%	1.67%	27.49%
Revenue (LQ) growth (%)	33.29%	9.14%	13.10%	19.29%	4.05%	8.78%
EBITDA Margin (LTM)	(1.2%)	27.9%	23.3%	50.9%	35.3%	20.6%
EPS (forward)	0.54	4.52	3.68	9.43	1.56	3.57
EV/Sales (LTM)	7.2x	4.7x	4.1x	9.2x	4.6x	3.3x
EV/Sales (forward)	12.39x	5.12x	7.06x	8.08x	2.95x	4.49x