A sector vanguard at a value price

Javier Hernandez-Cotton – Fund Manager jhernandezcotton@gmail.com +1 514 638 8423

Initiating coverage - BUY Report

Target Price: US\$180, representing 20% upside

Current Price: US\$150

Key Data

Chaoyang Shen – Research Associate

Cristiana Iulia Ilea – Research Associate

Capitalization Table	
Price (22-Mar-2016)	US\$150.00
FD Shares outstanding (m)	426.8
Equity value (US\$m)	\$64,021.9
Book value (US\$m)	75,528.0
Tangible book value (US\$m)	71,380.0

FY 2015A 2016F 2017F Sales (US\$m) 33,819.9 33,746.3 36,191.9 EBT (US\$m) 8,778.0 10,106.2 13,470.8 EPS (US\$) 17.54 18.46 21.77 8.1x P/E(x)8.6x 6.9x P / BV (x) 0.9x 0.8x 0.7x

1Pi	rice	CI	nar	t (U	S\$)								
ı													
		_/	<u></u>	V	1			٨					
					1	V	V			1			
											1	/	150
5	2	2	2	2	2	2	2	2	2	9	9		
Mar-1	Apr-1	May-1	Jun-1	Jul-1	Aug-1	Sep-1	Oct-1	Nov-1	Dec-1	Jan-1	Feb-1	Mar-1	
	Mar-15	\					Apr-15 May-15 Jul-15 Sep-15 Sep-15					Why have the second of the sec	

Company description

The Goldman Sachs Group ("Goldman Sachs", "GS", or the "Company") is a global investment banking, securities and investment management company that provides a range of financial services to a diversified client base that include corporations, financial institutions, Governments and high-net-worth individuals. The Company has four business franchises: Investment Banking, Institutional Client Services, Investing & Lending and Investment Management.

Investment thesis

Goldman Sachs is the World's leading investment banking and brokerage firm, best positioned to capitalize on an alleviated competitive environment from numerous peers undergoing restructurings, creating long term competitive advantages as markets improve...

Catalyst

- Undervalued in the current market
- Operating leverage enables further market leadership
- · Well invested in back office at the right time

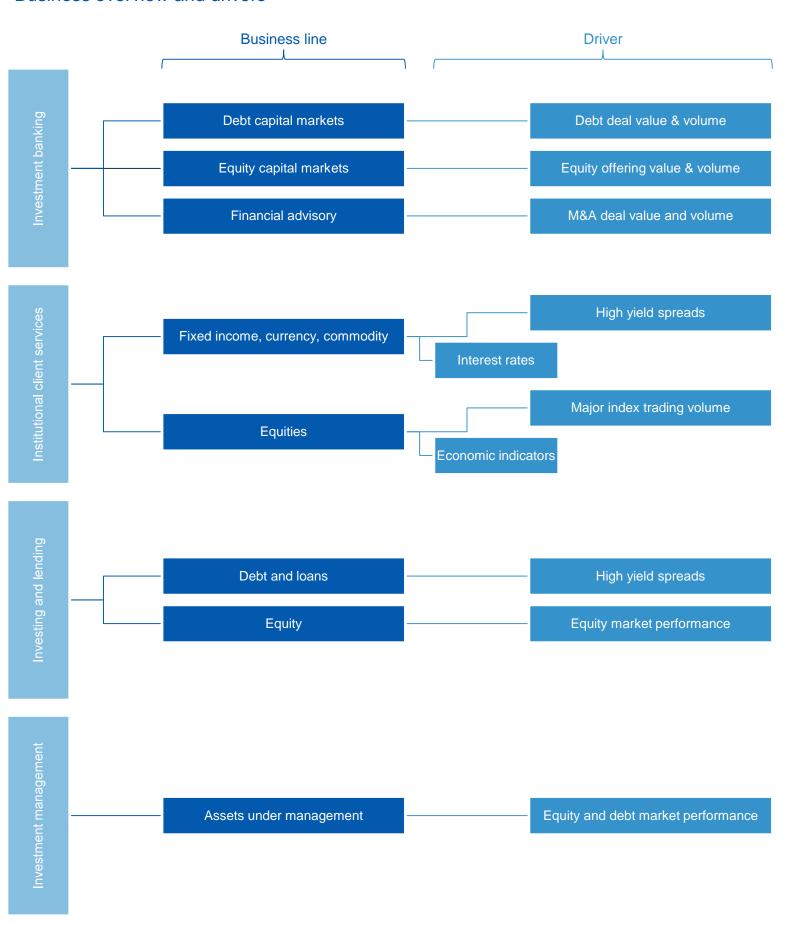
Valuation

We are initiating a buy on Goldman Sachs with a target price of US\$180, representing ~20% upside to its current price (US\$150), based on our 2016F sum of the parts analysis of Goldman Sachs and historic multiple trading levels for P / E, P / BV and P / TBV.

Table of contents **Financial overview** 3 **Business overview and drivers** 4 – 7 Industry and regulatory environment 8 – 9 **Strategic direction** 10 – 12 Thesis and catalyst development 13 - 14**Best of breed** 15 Financial and valuation assessment 16 - 21**Risk considerations** 22 **Appendix** 23 - 31

Financial overview

In US\$m, unless noted otherwise											
Profit model	2013	2014	2015	2016F	2017F	Growth	2013	2014	2015	2016F	2017F
Investment banking	6,004	6,464	7,027	7,211	7,760	Investment banking (%)	21.9%	7.7%	8.7%	2.6%	7.6%
Institutional client services	15,721	15,197	15,151	14,818	15,569	Institutional client services (%)	(13.3%)	(3.3%)	(0.3%)	(2.2%)	5.1%
Investing & lending	7,018	6,825	5,436	5,082	6,005	Investing & lending (%)	19.1%	(2.8%)	(20.4%)	(6.5%)	18.2%
Investment management	5,463	6,042	6,206	6,635	6,858	Investment management (%)	4.6%	10.6%	2.7%	6.9%	3.4%
Total revenue	34,206	34,528	33,820	33,746	36,192	Total revenue (%)	0.1%	0.9%	(2.1%)	(0.2%)	7.2%
(-) Total operating expenses	(21,507)	(21,057)	(20,951)	(21,140)	(22,021)	Profitability	2013	2014	2015	2016F	2017F
Total adjusted EBT	12,699	13,471	12,869	12,606	14,171	Investment banking (%)	42.1%	42.9%	47.2%	47.0%	50.0%
- I o tai aajaotoa EDI	12,033	10,471	12,009	12,000	14,171	Institutional client services (%)	31.1%	33.4%	34.5%	34.5%	35.0%
(-) Non-operating expenses	(962)	(1,114)	(4,091)	(2,500)	(700)	Investing & lending (%)	61.7%	63.6%	57.3%	55.0%	58.0%
EBT	11,737	12,357	8,778	10,106	13,471	Investment management (%)	20.2%	23.1%	22.0%	22.0%	22.0%
	,	12,001	0,110	10,100	,	Adjusted EBT margin (%)	37.1%	39.0%	38.1%	37.4%	39.2%
(-) Income tax expense	(3,697)	(3,880)	(2,695)	(3,103)	(4,136)	ROE (%)	10.1%	10.1%	9.2%	8.7%	9.3%
Net income	8,040	8,477	6,083	7,003	9,335	ROCE (%)	10.8%	10.9%	7.3%	8.2%	10.7%
101 11001110	0,040	0,111		1,000		1002 (70)	70.070	10.070	7.070	0.2 /0	10.170
(-) Pref. dividends	(338)	(423)	(537)	(585)	(633)	Dividends and buyback	2013	2014	2015	2016F	2017F
Net income to common	7,702	8,054	5,546	6,418	8,702						
						Shares outstanding (m)	467	452	442	427	407
(+) Adjustments	235	365	2,497	1,460	155	Growth (%)	(2.7%)	(3.4%)	(2.2%)	(3.3%)	(4.7%)
Normalized net income	7,937	8,419	8,043	7,879	8,857						
						Dividends per share (US\$)	\$2.05	\$2.25	\$2.55	\$2.77	\$3.33
(/) W.A shares (m)	471	459	449	422	402	Growth (%)	15.8%	9.8%	13.3%	8.6%	20.3%
Normalized EPS (US\$)	\$16.84	\$18.35	\$17.92	\$18.65	\$22.01	Payout ratio (%)	12.9%	12.6%	14.5%	15.0%	15.3%
(/) W.A diluted shares (m)	500	473	459	427	407	Book value	2013	2014	2015	2016F	2017F
Normalized diluted EPS (US\$)	\$15.89	\$17.79	\$17.54	\$18.46	\$21.77						
						Book value	71,267	73,597	75,528	77,895	81,657
Business lines EBT	2013	2014	2015	2016F	2017F	Growth (%)	2.5%	3.3%	2.6%	3.1%	4.8%
						BV / shares (US\$)	\$152.49	\$162.99	\$171.05	\$182.50	\$200.72
Investment banking	2,525	2,776	3,314	3,389	3,880	Growth (%)	5.4%	6.9%	4.9%	6.7%	10.0%
Institutional client services	4,891	5,071	5,223	5,112	5,449						
Investing & lending	4,332	4,344	3,115	2,795	3,483	Tangible book value	66,891	69,437	71,380	73,747	77,509
Investment management	1,106	1,395	1,365	1,460	1,509	Growth (%)	3.8%	3.8%	2.8%	3.3%	5.1%
(-) Corporate charges	(155)	(115)	(148)	(150)	(150)	TBV / shares (US\$)	\$143.12	\$153.78	\$161.65	\$172.79	\$190.53
Total adjusted EBT	12,699	13,471	12,869	12,606	14,171	Growth (%)	6.8%	7.4%	5.1%	6.9%	10.3%





Business overview

Investment banking

The investment banking ("IB") franchise generates revenue through fees on debt capital markets ("DCM") underwriting, equity capital markets ("ECM") underwriting, and advisory work primarily for mergers and acquisitions ("M&A"). The main drivers are deal volume and value per category, as well as overall corporate profits (Exhibit 1: F1, F2, F3 and F4)

Institutional client services

The institutional client services ("ICS") franchise makes a market in fixed income, currency and commodities ("FICC") and equities. The firm makes markets in and clears transactions on major stock, option, and future exchanges worldwide, while providing financing, securities lending and other prime brokerage services to institutional clients.

Four methods of generating revenues:

- In large, highly liquid markets (such as markets for U.S. Treasury bills, large capitalization S&P 500 stocks or certain mortgage pass-through securities), GS executes a high volume of transactions for clients
- In less liquid markets (such as mid-cap corporate bonds, growth market currencies or certain non-agency mortgage-backed securities), GS executes transactions for clients for spreads and fees that are larger than those charged in more liquid markets
- Structure and execute transactions involving customized or tailor-made products that address clients' risk exposures, investment objectives or other complex needs (such as a jet fuel hedge for an airline)
- Provide financing to clients for their securities trading activities, as well as securities lending and other prime brokerage services

The primary drivers are interest rates and high yield spreads (Exhibit 1: F5 and F6).

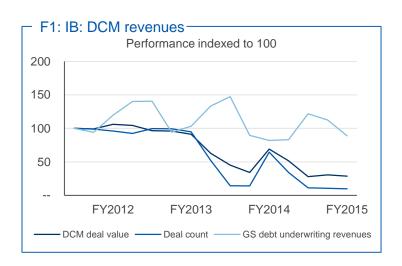
Investing and lending

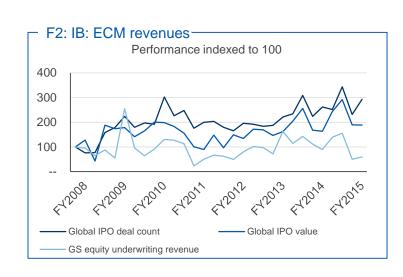
The investing and lending ("I&L") franchise invests in and originates loans to provide financing to clients (these investments and loans are typically longer-term in nature). Beyond this, Goldman Sachs is investing in corporate (public and private), real estate, and infrastructure equity-related investments. This segment is heavily impacted by regulatory constraints (Volker Rule) along with global equity market performance and high yield spreads (Exhibit 1: F7 and F8).

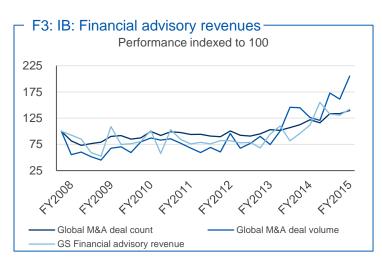
Investment management

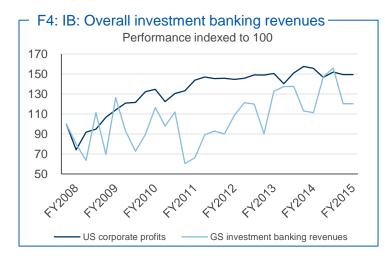
The investment management ("IM") franchise collects fees and commissions on their assets under management exceeding US\$1.0tn. The principal drivers are global equity and debt market performances (Exhibit 1: F9).

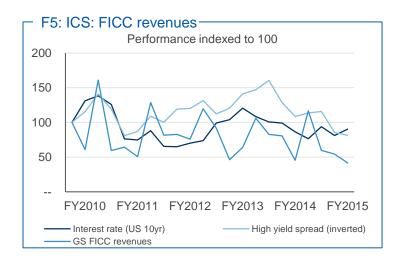
Exhibit 1 – GS revenue driver dashboard











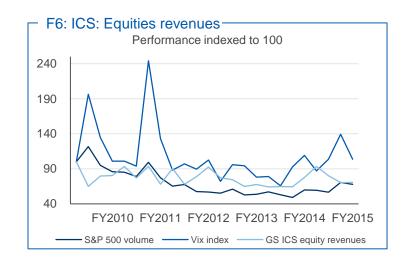
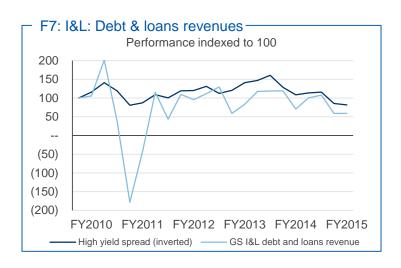
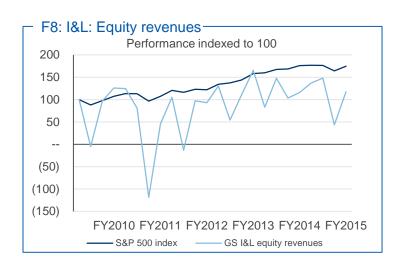
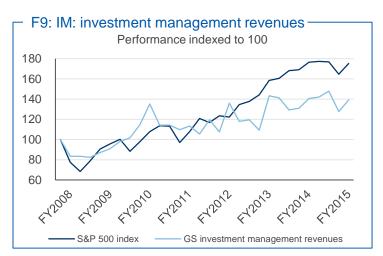




Exhibit 1 – GS revenue driver dashboard (cont.)







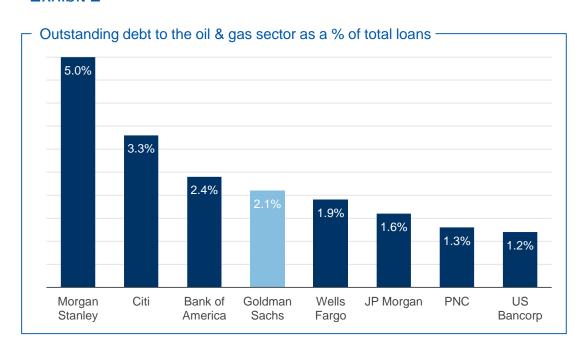
Industry and regulatory environment

The current and future environment for global investment banks

Global investment banks have been hit hard by slowing economic growth, disruption in emerging markets, low oil prices, low interest rates and a shifting regulatory environment. As seen with the drivers presented in exhibit 1, the market opportunities for investment banks have been volatile to say the least. With markets in a trough period, numerous players undergoing restructurings (Deutsche Bank and Credit Cuisse) and others still adapting to past restructurings (UBS), the market presents a great opportunity for those ready to lead the way in both investment banking and trading. We believe Morgan Stanley, Goldman Sachs, Bank of America Merrill Lynch, and JP Morgan are best positioned to target the market share up for grabs by their European peers who are taking a step back. However, it must be noted that the significant technological changes in the industry are diminishing the profitability of the trading business, but, as we will elaborate later on, Goldman Sachs is well positioned to cope and adapt to these changes. Beyond this, the industry is linked to global economic performance and our view on global markets remains optimistic. In the long run we see tremendous value at entering this space in a trough period.

Investment bank's exposure to low energy price environment

Goldman Sachs has \$10.6bn of exposure to the energy sector, which, relative to the rest of the major banks, has a smaller lending business. In addition, \$4.2 billion was for junk firms, as of the end of December, representing 40% of its oil and gas loans. However the firm ranks lower than peers and other large US banks in terms of outstanding debt to the oil & gas sector as a % of total loans (Exhibit 2).



Industry and regulatory environment

Regulatory environment

As a participant in the financial services industry, Goldman Sachs is subject to extensive regulation worldwide. Even though their businesses have been subject to increasing regulation and supervision in recent years, Goldman Sachs managed to maintain a solid relative performance in this challenging regulatory environment. Some of the most recent and impactful regulations are the ones concerning the:

- G-SIB Surcharge (view appendix)
- Supplementary Leverage Ratio (view appendix)
- Liquidity Coverage Ratio (view appendix)
- CCAR (view appendix)
- Volcker Rule

Volcker Rule

Implemented in July 2015, the Volcker Rule, which is represented in Section 619 of the Dodd-Frank Wall Street Reform and Consumer Protection Act, is meant to restrict big U.S. banks from making risky speculative bets with funds from their own accounts through proprietary trading of securities, derivatives, commodity futures and options. In addition, the rule prohibits them from having general trading relationships with hedge funds and private-equity funds. The intent was to keep banks from the hedging that puts customers in danger, helping to prevent another crisis like the one that brought the American economy to its knees in 2008.

Goldman Sachs is one of the most affected banks followed by Morgan Stanley. The two firms derive 48% and 27% of their total consolidated revenues, respectively, from principal transactions. Meanwhile Bank of America and JPMorgan Chase see about 9% and 8% of their total consolidated revenue, respectively, come from such transactions. Citigroup will be the least hit with just 5% of its total revenue at stake.

Therefore, the Volker rule may adversely affect Goldman Sachs' profitability and competitive position, particularly if these requirements do not apply, or do not apply equally, to their competitors or are not implemented uniformly across jurisdictions.

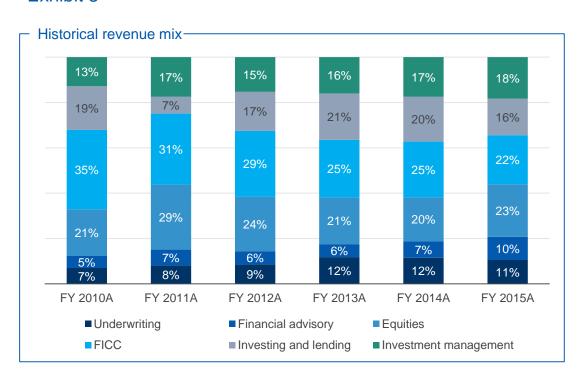
Strategic direction

The Goldman Sachs Group

GS derives its revenues through a public / private market focused business model which for the most part capitalizes on fees and commissions for services and structured products. As the environment for global investment banks deters, management at GS is focused on targeting the market share of peers who scale back in many markets across the globe. Credit Suisse and Deutsche Bank in particular have begun scaling back their US and European operations in an effort to refocus their businesses and GS is a prime hunter for their share of the market. The Company has publicly stated that in the US market they will look to strengthen their share of the Institutional Client Services market.

Beyond this, the Company has deployed (and is continuing to deploy) a franchise mix strategy that minimizes their exposure to the riskiness of trading revenues in FICC, focusing more on investment banking and investment management (Exhibit 3). The Company's investment banking revenues now match that of the FICC business, incomparable to how things were in past years.

Exhibit 3

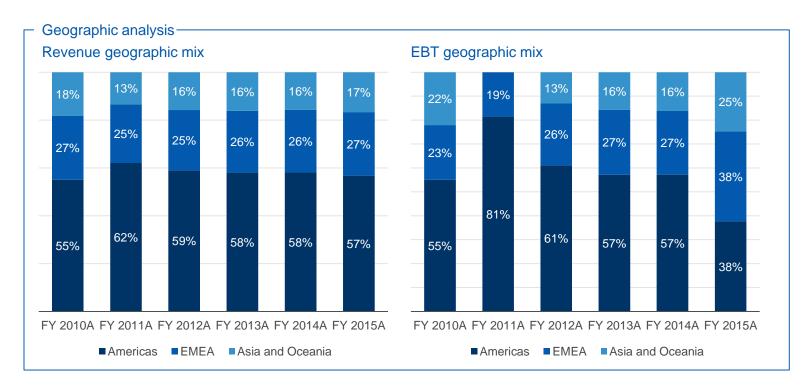


On a geographic level, GS revenues are derived primarily from North America, however on a profit level, the Company has strong earnings power in the "EMEA" and "Asia and Oceania" segments. This is a strong positive for the Company's positioning as their most operationally effective markets also provide the greatest future growth avenues (Exhibit 4).

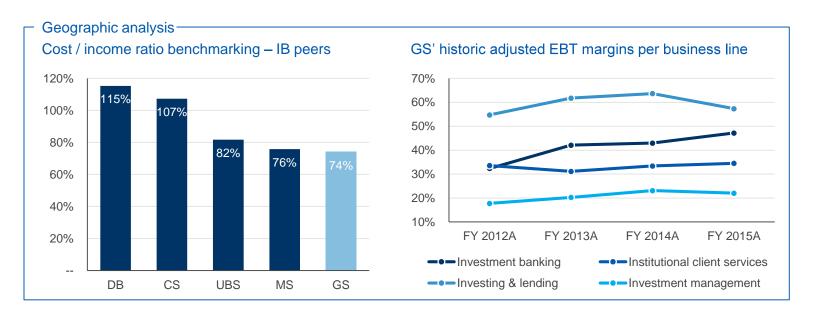


Strategic direction

Exhibit 4



GS has also been an efficient manager of scale, adapting their cost structure despite varying revenue cycles. This flexibility is evident across business segments and provides GS with a leadership position amongst peers (Exhibit 5). On the other side it is relevant to point out that the investing and lending franchise's historic steep drops in revenue, from losses on investments, remains impossible to react to.



Strategic direction

Management team

Lloyd C. Blankfein - Chairman and CEO (61 y.o.)

The Company's current Chairman and CEO is a Harvard Law School alumni who has worked at Goldman Sachs for the last 34 years. He started in 1982 when he joined GS' commodities trading arm, J. Aron & Co., as a precious metals salesman in its London office. During his time at GS, Blankfein held various positions across the FICC and Equities divisions. He served as Vice Chairman from 2002 until 2004, continuing as the President and Chief Operating Officer until 2006. Since 2006, he has served as Chairman and Chief Executive Officer. Blankfein is one of two remaining bank CEOs from the 2008 financial crisis (The other being JP Morgan's CEO Jamie Dimon). In 2015, he earned a total of US\$23.0mm (US\$2.0 mm in base salary, US\$6.3 mm in cash bonus, and US\$14.7mm in equity).

Gary D. Cohn - President and COO (55 y.o.)

After obtaining his bachelor's degree from American University's Kogod School of Business and working as a sales person at U.S. Steel, Cohn started his career as an options dealer in the New York Mercantile Exchange and eventually joined Goldman Sachs in 1990. In his more than 20-year career at Goldman Sachs in New York and London, Cohn accumulated extensive experience as head of the FICC division, the global securities businesses and, in June 2006, became President and Co-Chief Operating Officer. Including stock awards, Cohen earned over US\$21.0mm in 2015.

Harvey M. Schwartz - Executive Vice President and CFO (52 y.o.)

Prior to his appointment as chief financial officer in January 2013, Schwartz served as managing director, partner, and co-head of the global securities division at Goldman Sachs. He is also a member of the firm's Management Committee, firm-wide Risk Committee, Steering Committee on Regulatory Reform, Finance Committee, firm-wide Capital Committee and firm-wide Investment Policy Committee. With regards to Schwartz's education background, he graduated from Rutgers University in 1987 with a Bachelor of Arts degree in economics and earned his EMBA degree from Columbia University in 1996.

Thesis and catalyst development

Thesis

"Goldman Sachs is the World's leading investment banking and brokerage firm, best positioned to capitalize on an alleviated competitive environment from numerous peers undergoing restructurings creating long term competitive advantages as markets improve..."

The Company holds best of breed operating leverage and seamless integration across business franchises, enabling leading cost management during cyclical periods. The Company's trading leadership provides them with a tremendous opportunity to generate strong revenues in a rising interest rate environment, while their increased exposure to investment banking helps mitigate a flat / declining trading year. The Company's recent staple has been their investment management division, which provides constant mid single digit year-over-year growth.

Catalyst

We believe Goldman Sachs provides strong upside based on the following reasons...

- Undervalued in the current market
- Operating leverage enables further market leadership
- · Well invested in back office at the right time

Undervalued in the current market

The market has priced in a year long rout of three of their four business franchises (the exception being their investment management franchise), while we only expect a downturn for H1 as markets stabilize globally and US rates get hiked. This provides a great entry point for a Company poised to lead the strong M&A wave and market rebound seen mid-February onwards. The Company's revenues across franchises are linked to market elements that we do not believe will remain hindered throughout 2017, where the stock has the opportunity to see multiple expansion by incorporating growth into its highly scaled model.

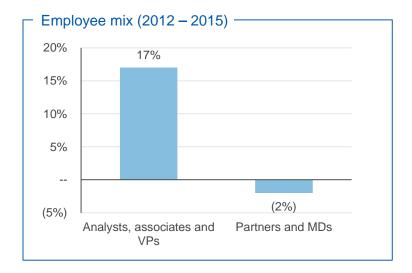
Operating leverage enables further market leadership

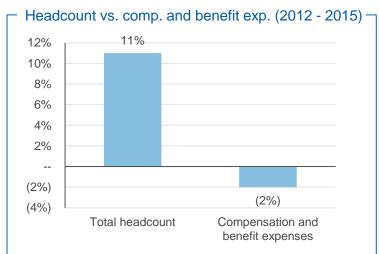
Goldman Sachs' best of breed operating leverage gives way to market share capture as European competitors retrench (Credit Suisse and Deutsche Bank) in both their domestic and international markets. We believe the competition for this new market share will be fierce from players like MS, BAC and JPM, but Goldman Sachs' leadership position, high operating flexibility and strong 2015 track record will enable significant new client relationships to be fostered during this period. The advantage of these client relationships is that they will continue to provide revenues for the firm long past 2016.

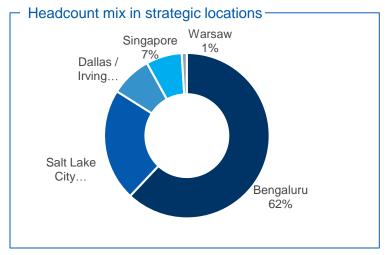
Thesis and catalyst development

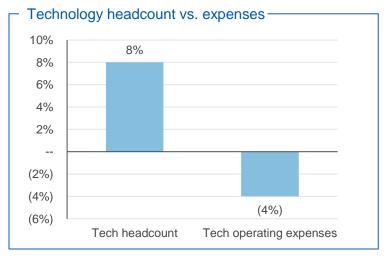
Well invested in back office at the right time

GS has taken a leading position in investing in its back office. Last year the firm increased its workforce by ~8%, while most peers cut or remained flat (MS is the closest rival on this matter, increasing their workforce by 1%). This initiative is primarily meant to increase efficiencies in their IB and trading franchises through a ramp up of their tech staff (who serve to innovate and streamline processes). Beyond hires in the tech space, the Company has also focused on investing in external technology companies whose products the bank can use to their advantage (i.e. Symphony, Marquee, etc.). These investments ultimately enable the Company to bring forward a greater breath of products to more clients, while facilitating ease of collaboration and scale advantages on their global platform. GS' hiring frenzy was also used to strengthen their regulatory, legal, and compliance teams as lawsuits and fines have resulted in billion dollar loses to global investment banks across the world (to which Goldman Sachs is no exception, having paid over US\$4.0bn this year alone). They have executed on all of this while responsibly managing the costs impacts (Exhibit 6).





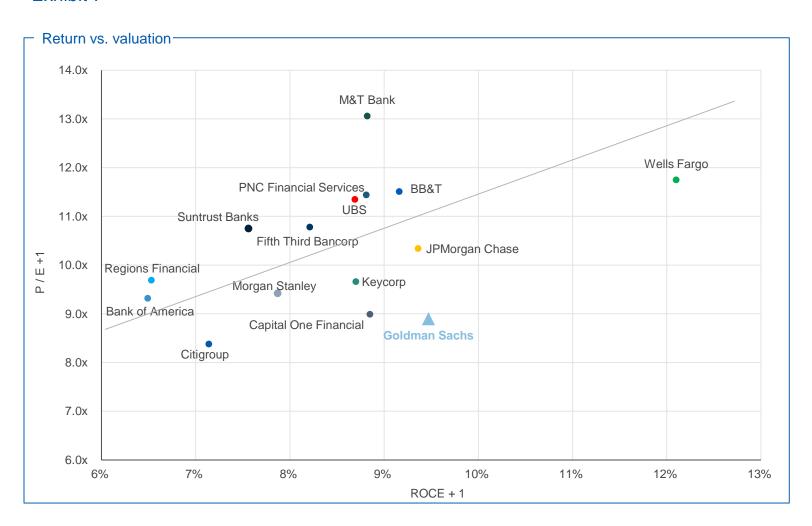




Best of breed

Portfolio strategy

In an attempt to allocate capital to the fund's highly underweight financial sector, we have evaluated numerous financial players looking for an opportunity with a best of breed player outside of the real estate and insurance space. The speed at which interest rates will be hiked in the US is uncertain and with that in mind, Goldman Sachs and many other large investment banks (UBS, DB, MS, Barclays) stood out to me as they have less revenue exposure to net interest margin spreads, but can still stand to benefit from high yield spreads decreasing. When looking at the major investment banks, GS stood out for having strong future earnings potential compared to other peers and providing best of breed returns. Goldman Sachs leverages its scale and solid franchise integration to hold best-in-class margins and we see an opportunity for them to steal further market share as the global IBs pull back due to restructuring (DB, CS). With that in mind we see Goldman Sachs as not only being best of breed, but also being undervalued versus its historic trading levels and its peers (Exhibit 7).



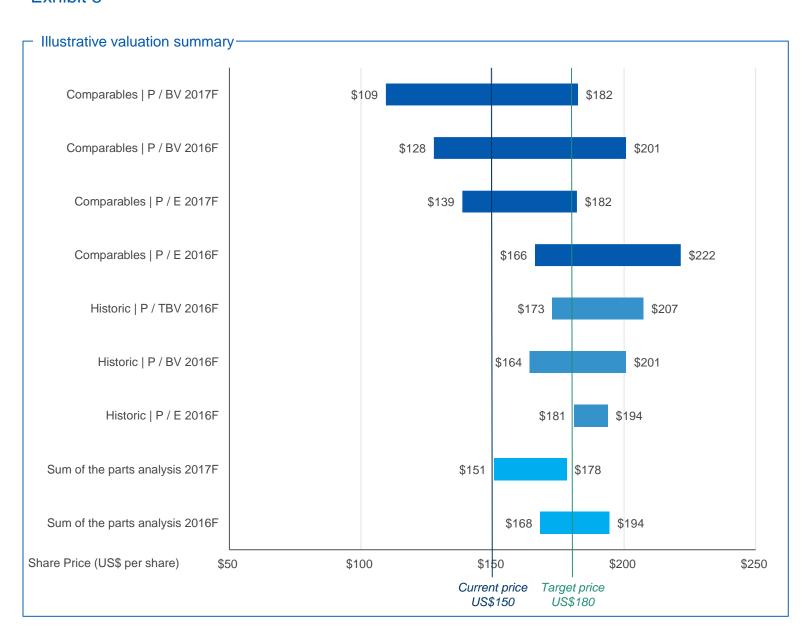


Target price

We are initiating a buy on Goldman Sachs with a target price of US\$180, representing \sim 20% upside to its current share price (US\$150), based on our 2016F sum of the parts analysis of Goldman Sachs and historic trading multiples for P / E, P / BV and P / TBV.

Valuation methodology overview

Our valuation is focused on 2016 and 2017 expected performance using a sum of the parts analysis (attributable to Goldman Sachs' respected business franchises on a P / E basis) as well as using historic and peer multiples for P / E, P / BV and P / TBV (Exhibit 8).



Operating model build out

We forecasted our operating model segmented by the 4 primary business franchises. We kept corporate costs consistent throughout and ramped down legal fees.

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020
Revenues											
Investment banking	4,810	4,355	4,927	6,004	6,464	7,027	7,211	7,760	8,121	8,263	9,631
nstitutional client services	21,796	17,280	18,124	15,721	15,197	15,151	14,818	15,569	16,566	16,569	16,039
Investing & lending	7,541	2,142	5,891	7,018	6,825	5,436	5,082	6,005	6,245	7,747	7,315
nvestment management	5,014	5,034	5,222	5,463	6,042	6,206	6,635	6,858	7,129	7,058	7,232
Total revenue	39,161	28,811	34,164	34,206	34,528	33,820	33,746	36,192	38,061	39,638	40,217
Adjusted EBT											
Investment banking adj. EBT	1.816	1.360	1,593	2.525	2,776	3,314	3.389	3.880	4.061	4,132	4,815
Institutional client services adj. EBT	6,802	4,618	6,082	4,891	5,071	5,223	5,369	5,449	5,798	5,965	5,774
Investing & lending adj. EBT	4.485	(531)	3,223	4,332	4.344	3,115	2.795	3,449	3,685	4,958	4,608
Investing & lending adj. EBT	932	1,014	926	1.106	1.395	1.365	1.460	1.509	1.568	1,553	1,59
(-) Adjusted corporate charges	(345)	(117)	(169)	(155)	(115)	(148)	(150)	(150)	(150)	(150)	(150
(=) Aujusteu corporate criarges	(343)	(117)	(103)	(100)	13,471	12,869	12,606	14,171	14,962	16,458	16,639

Investment banking

Revenues from the investment banking division are segmented by product group. With the downturn in DCM over the past 12 months, we have a negative outlook on the debt revenues for the coming months. However with a rising rate environment coming into play we see the opportunity for many firms to issue debt sooner rather than later. ECM remains difficult to predict, but has been slow to date so far this year and we see this continuing into the year end. In financial advisory we have forecasted what we consider to be highly conservative figures considering the hot M&A wave seen in march. We topped margins at 50% as we expect most operating improvements to already be in place.

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020
nvestment banking											
Debt	1,286	1,283	1,964	2,367	2,240	2,011	1,810	1,900	1,948	1,851	2,221
Growth (%)		(0.2%)	53.1%	20.5%	(5.4%)	(10.2%)	(10.0%)	5.0%	2.5%	(5.0%)	20.0%
Equity	1,462	1,085	987	1,659	1,750	1,546	1,515	1,818	1,727	1,900	1,995
Growth (%)	_	(25.8%)	(9.0%)	68.1%	5.5%	(11.7%)	(2.0%)	20.0%	(5.0%)	10.0%	5.0%
Jnderwriting	2,748	2,368	2,952	4,026	3,990	3,557	3,325	3,719	3,675	3,750	4,216
Growth (%)		(13.8%)	24.6%	36.4%	(0.9%)	(10.9%)	(6.5%)	11.8%	(1.2%)	2.0%	12.4%
Financial advisory	2,062	1,987	1,975	1,978	2,474	3,470	3,886	4,042	4,446	4,513	5,415
Growth (%)		(3.6%)	(0.6%)	0.2%	25.1%	40.3%	12.0%	4.0%	10.0%	1.5%	20.0%
nvestment banking revenue	4,810	4,355	4,927	6,004	6,464	7,027	7,211	7,760	8,121	8,263	9,631
Growth (%)		(9.5%)	13.1%	21.9%	7.7%	8.7%	2.6%	7.6%	4.6%	1.7%	16.6%
nvestment banking EBT	1,351	1,360	1,593	2,525	2,776	3,314	3,389	3,880	4,061	4,132	4,815
Margin (%)	28.1%	31.2%	32.3%	42.1%	42.9%	47.2%	47.0%	50.0%	50.0%	50.0%	50.0%
+) Adjustments	465										-
nvestment banking adj. EBT	1,816	1,360	1,593	2,525	2,776	3,314	3,389	3,880	4,061	4,132	4,815

Institutional client services

We foresee slower equities trading in 2016F with more constancy in 2017F as equity markets globally begin to pick back up (rebound in emerging markets and less stagnant US performance). For FICC revenues we foresee H1 2016F trading volumes to be lower as rates remain low, however we are bullish on a rebound in H2 through 2017F. We see business scaling continuing as the firm adjusts to their fourth year of declines.

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020
nstitutional client services											
Equities commissions and fees	3,426	3,633	3,053	3,103	3,153	3,156	3,235	3,364	3,499	3,429	3,566
Growth (%)		6.0%	(16.0%)	1.6%	1.6%	0.1%	2.5%	4.0%	4.0%	(2.0%)	4.0%
Equities client execution	3,231	3,031	3,171	2,594	2,079	3,028	2,725	3,161	3,477	3,512	3,653
Growth (%)		(6.2%)	4.6%	(18.2%)	(19.9%)	45.6%	(10.0%)	16.0%	10.0%	1.0%	4.0%
Securities services	1,432	1,598	1,986	1,373	1,504	1,645	1,719	1,547	1,532	1,409	1,423
Growth (%)		11.6%	24.3%	(30.9%)	9.5%	9.4%	4.5%	(10.0%)	(1.0%)	(8.0%)	1.0%
Fotal equities	8,089	8,262	8,210	7,070	6,736	7,829	7,679	8,073	8,508	8,350	8,642
Growth (%)		2.1%	(0.6%)	(13.9%)	(4.7%)	16.2%	(1.9%)	5.1%	5.4%	(1.9%)	3.5%
CC	13,707	9,018	9,914	8,651	8,461	7,322	7,139	7,496	8,058	8,219	7,397
Growth (%)		(34.2%)	9.9%	(12.7%)	(2.2%)	(13.5%)	(2.5%)	5.0%	7.5%	2.0%	(10.0%)
nstitutional client services revenue	21,796	17,280	18,124	15,721	15,197	15,151	14,818	15,569	16,566	16,569	16,039
Growth (%)		(20.7%)	4.9%	(13.3%)	(3.3%)	(0.3%)	(2.2%)	5.1%	6.4%	0.0%	(3.2%)
nstitutional client services EBT	6,802	4,443	5,634	3,929	4,317	1,213	2,612	4,749	5,098	5,665	5,474
Margin (%)	31.2%	25.7%	31.1%	25.0%	28.4%	8.0%	17.6%	30.5%	30.8%	34.2%	34.1%
+) Adjustments		175	448	962	754	4,010	2,500	700	700	300	300
nstitutional client services adj. EBT	6,802	4,618	6,082	4,891	5,071	5,223	5,112	5,449	5,798	5,965	5,774
Margin (%)	31.2%	26.7%	33.6%	31.1%	33.4%	34.5%	34.5%	35.0%	35.0%	36.0%	36.0%

Investing & lending

As with the ICS equities revenues, we see stagnancy in the 2016F global equities markets with a rebound the year after. We view a similar scenario for the firm's debt and loan portfolio, however have little visibility on this portion of revenues. We see costs remaining flat on an absolute dollar basis, thus impacting margins based on sales performance.

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020
Investing & lending											
Equity (excluding ICBC)	2,692	1,120	2,392	3,930	3,813	3,781	3,460	4,221	4,390	5,706	5,478
Growth (%)		(58.4%)	113.6%	64.3%	(3.0%)	(0.8%)	(8.5%)	22.0%	4.0%	30.0%	(4.0%)
Debt securities and loans	2,597	96	1,850	1,947	2,165	1,655	1,622	1,784	1,855	2,041	1,837
Growth (%)		(96.3%)	1827.1%	5.2%	11.2%	(23.6%)	(2.0%)	10.0%	4.0%	10.0%	(10.0%)
Other	1,505	1,443	1,241	1,141	847						-
Industrial and Commercial Bank of China	747	(517)	408								
nvesting and lending revenue	7,541	2,142	5,891	7,018	6,825	5,436	5,082	6,005	6,245	7,747	7,315
Growth (%)		(71.6%)	175.0%	19.1%	(2.8%)	(20.4%)	(6.5%)	18.2%	4.0%	24.1%	(5.6%)
Investing & lending EBT	4,180	(531)	3,223	4,332	4,006	3,034	2,795	3,483	3,685	4,958	4,608
Margin (%)	55.4%	(24.8%)	54.7%	61.7%	58.7%	55.8%	55.0%	58.0%	59.0%	64.0%	63.0%
(+) Adjustments	305				338	81					-
Investing & lending adj. EBT	4,485	(531)	3,223	4,332	4,344	3,115	2,795	3,483	3,685	4,958	4,608
Margin (%)	59.5%	(24.8%)	54.7%	61.7%	63.6%	57.3%	55.0%	58.0%	59.0%	64.0%	63.0%

Investment management

We expect Goldman Sachs' strategic efforts to attract greater debt inflows as well as offer more attractive products (i.e. new hedge fund ETF) to continue to drive their investment management franchise. Margins for the business are expected to decrease slightly as we expect a greater hiring / compensation package to subsidize the fund inflows.

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020I
Investment management											
AUM (US\$bn)	840	828	854	919	1,027	1,078	1,164	1,215	1,276	1,276	1,321
Growth (%)		(1.4%)	3.1%	7.6%	11.8%	5.0%	8.0%	4.4%	5.0%		3.5%
Implied mgmt. fee (bps)	60 bps	61 bps	61 bps	59 bps	59 bps	58 bps	57 bps	56 bps	56 bps	55 bps	55 bps
Growth (%)		1.9%	0.6%	(2.8%)	(1.0%)	(2.1%)	(1.0%)	(1.0%)	(1.0%)	(1.0%)	(1.0%)
Investment management revenue	5,014	5,034	5,222	5,463	6,042	6,206	6,635	6,858	7,129	7,058	7,232
Growth (%)		0.4%	3.7%	4.6%	10.6%	2.7%	6.9%	3.4%	3.9%	(1.0%)	2.5%
Investment management EBT	932	1,014	926	1,106	1,395	1,365	1,460	1,509	1,568	1,553	1,591
Margin (%)	18.6%	20.1%	17.7%	20.2%	23.1%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%
(+) Adjustments											-
Investment management adj. EBT	932	1,014	926	1,106	1,395	1,365	1,460	1,509	1,568	1,553	1,591
Margin (%)	18.6%	20.1%	17.7%	20.2%	23.1%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%
Corporate											
(-) Corporate charges	(373)	(117)	(169)	(155)	(137)	(148)	(150)	(150)	(150)	(150)	(150)
(+) Adjustments	28				22						
-) Adjusted corporate charges	(345)	(117)	(169)	(155)	(115)	(148)	(150)	(150)	(150)	(150)	(150)
Adjustments											
Restructuring charges	(28)										
Impairment of goodwill					(22)						
Asset writedown	(305)				(338)	(81)					
Total legal settlements		(175)	(448)	(962)	(754)	(4,010)	(2,500)	(700)	(700)	(300)	(300)
Other unusual items	(465)										
Adjustments	(798)	(175)	(448)	(962)	(1,114)	(4,091)	(2,500)	(700)	(700)	(300)	(300

Sum of the parts

For each segment's future earnings over the next 2 years we applied segmented peer average multiples to each of GS' business franchises. The IB franchise was discounted versus higher growth, pure-play peers; Houlihan Lokey, Evercore, and Moelis & Co. (peer average P / E +1 of 14.5x). The ICS franchise was compared most closely to Morgan Stanley, but we also took into account Citigroup and Barclays (peer average P / E +1 of 8.6x). The I&L franchise was compared at a discount versus Morgan Stanley (who operates a similar practice to GS), and pure-plays Blackstone and KKR (peer average P / E +1 of 11.4x). The IM franchise was discounted versus pure-plays Blackrock, Invesco, and Alliance Bernstein (peer average P / E +1 of 14.3x). Our resulting target price on 2016 earnings and target multiples per franchise was US\$181.28, representing 9.8x price to 2016F earnings (Exhibit 9).

Exhibit 9

in US\$m	Net income 2016F	Target P / E 2016F	Implied equity value	Implied share price (US\$)
Investment banking	2,349	13.0x	30,533	\$71.54
Institutional client services	1,810	9.3x	16,835	\$39.44

Investing & lending 1,937 9.5x 18,399 \$43.11 \$29.63 Investment management 1,012 12.5x 12,645 Corporate (104)10.0x (1,039)(\$2.44)\$181.28 Sum of the parts 2016F valuation

Comparable company analysis

Sum of the parts 2016F valuation

Our principal peers group for Goldman Sachs is Morgan Stanley, Bank of America, JP Morgan, Barclays, Credit Suisse, and UBS. We believe the balance of focused IB firms as well as diversified IB firms provides a strong comparable group for GS' business, with the most comparable peer being Morgan Stanley (Exhibit 10).

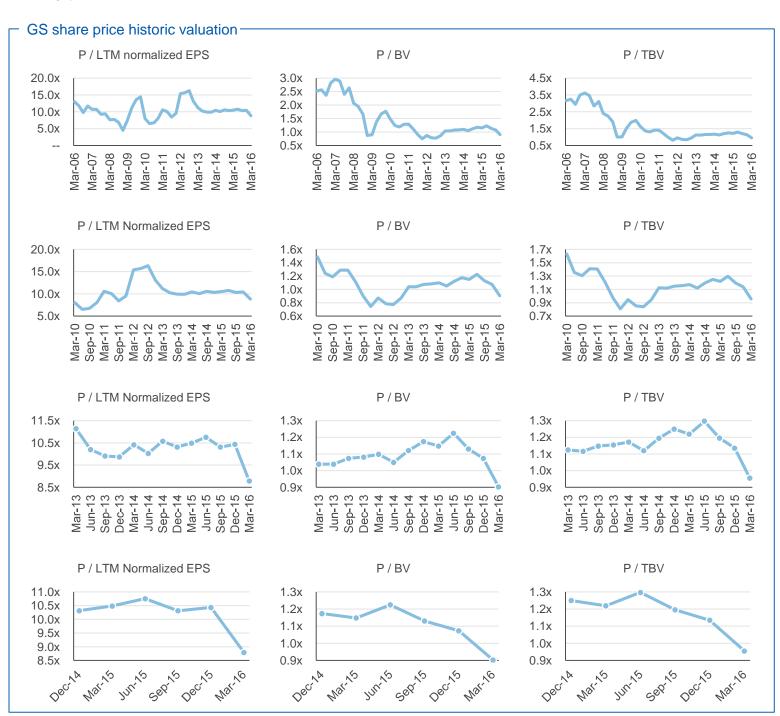
Exhibit 10

Comparable company analysis

	Price to	earnings	Price to b	ook value
	2016F	2017F	2016F	2017F
Morgan Stanley	9.5x	7.8x	0.7x	0.6x
Bank of America	9.4x	8.3x	0.6x	0.5x
JP Morgan	10.4x	9.2x	0.9x	0.9x
Barclays	8.4x	6.4x	0.5x	0.5x
Credit Suisse	16.1x	8.9x	0.6x	0.6x
UBS	11.5x	9.9x	1.1x	1.0x
Average	10.9x	8.4x	0.7x	0.7x
Median	9.9x	8.6x	0.6x	0.6x
Goldman Sachs	8.1x	6.9x	0.8x	0.7x

Historical multiples

We evaluated the historic multiple of GS and noticed that the Company is trading at trough multiples similar to their 2011 / 2012 levels (a cycle which we do not believe reflects the current market for banks). These multiples provide an attractive entrance point for shares of Goldman Sachs since we know that their operations are suited to cope with a longer downward cycle and that the economic reality is not as negative as back in 2011 / 2012 (Exhibit 11).



Risk considerations and sensitized case analysis

Succession planning

Lloyd Blankfein's cancer (lymphoma) is something that we consider a call to retirement sooner rather than later (despite Blankfein stating that he is "feeling great" and in the office every day following arduous chemo therapy). Blankfein has been at the helm of GS since before the '09 financial crisis and has proved to be an effective manager of the Company. We are optimistic that Goldman Sachs has enough internal influencers to find a suitable replacement. Gary Cohn (COO) is seen as the most likely successor, otherwise other senior executives who could provide stability according to investors, include chief financial officer Harvey Schwartz, chief strategy officer Stephen Scherr, vice chairman Michael Sherwood and investment banking co-head David Solomon.

Regulatory impacts (Volcker Rule)

GS' business remains heavily linked to principal transactions, which increases the Company's risk following the implementations of the Volcker Rule. However, we remain confident that Goldman Sachs' strategy to find loopholes in the regulation and continue to involve principal transactions in their business will be maintained. One thing to note is that since the implementation of the rule, GS has been successful in finding well structured loopholes and keeping their compliance in check. They are successfully operating numerous divisions which were previously classified by many analysts as illegal.

Disruptive technology

We believe that the most relevant disruptive technology is the emergence of blockchain technology, which facilitates trading efficiencies. The firm has continuously invested in firms surrounding this technology, with their most recent investment being done (alongside IBM) in Digital Assets Holdings, a start-up led by former JPMorgan Chase & Co. banker Blythe Masters that aims to adapt blockchain technology to financial markets.

Legal impacts (fines)

It is difficult to predict what kind of legal fines can be applied to GS from the '08 / '09 crisis. However it is worth noting that further billion dollar fines are currently priced into the stock (and accounted for in our model) and equity research is expecting more as regulators crack down.

Political results

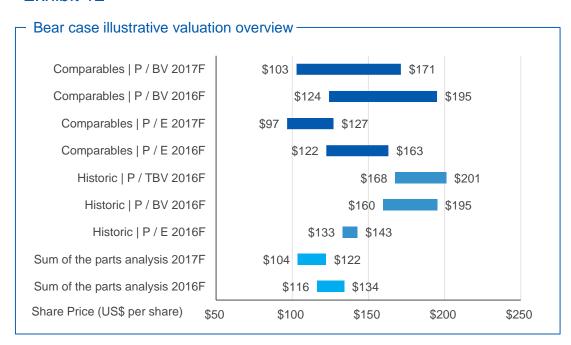
In the event that Bernie Sanders wins the election, we see our bear case share price coming into play in the short term. However, as much as Mr. Sander wants to get rid of the so called "evils" of Wall Street, banks like Goldman Sachs remain a long term enabler of corporate and economic growth.

Risk considerations and sensitized case analysis

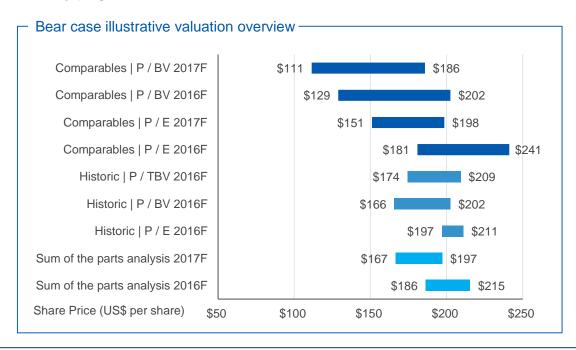
Overview of bull and bear case

Bear case assumes poor results from trading and IB will persist throughout the year and into 2017F, with upticks only happening in 2018F (Exhibit 12). Target price of US\$130 per share (-13.3% downside).

Exhibit 12



Bull case assumes a poor H1 2016F from trading and IB, with a slight rebound in H2 2016F, carrying a strong rebound in 2017F. Operations are optimized where there is room left (Exhibit 13). Target price of US\$215 per share (43.3% upside).



Sources

Company fillings / website: GS, MS, C, BAC, RF, STI, FITB, JPM, COF, MTB, WFC, UBSG, BARC, DBK, BNP

News: Bloomberg, The Economist, New York Times, Business Insider, CNBC, Financial Post, International

Business Times

Databases: Bloomberg, Dealogic and Capital IQ

Research: Credit Suisse, Societe General, JP Morgan, Barclays

Detailed sum of the parts analysis

Institutional clien (%) (%) (%) (%) (%) (%) (%) (%) (%) (%						
1.2.2x Low P E E	vices	Investing & lending	Investment management		Corporate	
12.2x Low P E (x) 13.0x Target equity value 22.412 High equity value 22.412 High equity value 22.826 Margin (%) 22.836 EBT 22.836 Low equity value 23.836 Low equity value 23.837 Target equity value 23.838 Low equity value 23.839 Low equity value 23.830 Low equity val	Revenue EBT Margin (%)	5,082 2,795 55.0%	Revenue EBT Margin (%)	6,635 1,460 22.0%	Revenue EBT Margin (%)	 (150) n/a
12.2x	Net income 1,810	1,937	Netincome	1,012	Netincome	(104)
Low equity value	Low P / E (x) Target P / E (x) High P / E (x)	8.7x 9.5x 10.3x	Low P / E (x) Target P / E (x) High P / E (x)	11.7x 12.5x 13.3x	Low P / E (x) Target P / E (x) High P / E (x)	9.2x 10.0x 10.8x
Investment banking	Low equity value Target equity value High equity value	16,850 18,399 19,949	Low equity value Target equity value High equity value	11,836 12,645 13,454	Low equity value Target equity value High equity value	(956) (1,039) (1,123)
Investment banking	427 427 81.28					
1.7560		Investing & lending	Investment management		Corporate	
1.2	Revenue		Revenue FBT	6,858	Revenue FRT	(150)
11.2x Low P E (x) 1.2x Target p E (x) 28.368 Low equity value 28.185 Target equity value 407 Share price (US\$) \$163.88 8.163.88 \$9.3% 10.0% \$163.88	Margin (%) 30.5%	58.0%	Margin (%)	22.0%	Margin (%)	n/a
11.2x 1.0w F) E (x)	Netlicolle	41412	Netificome	1,046	Net income	(104)
28.306 Low equity value 28.185 Target equity value 30.064 High equity value 407 \$10.0%* \$148.38 (0.7%) Lbanking 112.3x Societe Gen 10.5x RBC Capital 11.4x Average 15.8x MORGAN ST 16.CLA 13.6x CITIGROUP 14.9x BARCLAYSI	Low P/E (x) Target P/E (x) Hign P/E (x)	7.2x 8.0x 8.8x	Low P / E (<) Target P / E (<) High P / E (<)	9.2x 10.0x 10.8x	Low P / E (x) Target P / E (x) High P / E (x)	11.2x 12.0x 12.8x
tbanking 10.0%* \$148.98 (0.7%) tbanking 12.3x Societe Gen 10.5x MORGAN ST 11.4x Average 11.9x MARCLAYS IT.9x CTIGROUP 14.9x Average 11.8x Average 11.8x Average	Low equity value Target equity value High equity value	13,945 ue 15,494 17,044	Low equity value Target equity value High equity value	9,307 10,116 10,925	Low equity value Target equity value High equity value	(1,164) (1,247) (1,331)
### 12.3x Societe Gen 10.5x RBC Capital 11.4x Average 11.58x MORGAN ST NC-CL A 13.6x CITIGROUP 14.9x BARCLAYS 14.8x Average	407 407 63.88 9.3%					
17	0.7%)					
12.3x 10.5x 10.5x 11.4x 16F 15.8x S INC-CL A 14.9x A 14.8x	Institutional client services	vul	Investing & lending		Investment management	
16E 15.8X SINC-CL A 13.6X A 14.9X 14.8X	Societe Generale RBC Capital Markets Average	7.3x Societe Generale 9.1x RBC Capital Markets 8.2x Average	7.1x 10.2x 8.7x	Societe Generale RBC Capital Mark Average	Societe Generale RBC Capital Markets Average	12.8x 12.4x 12.6x
	MORGAN STANLEY CITIGROUP INC BARCLAYS PLC Average	9.5x MORGAN STANLEY 8.2x BLACKSTONE GROUP LP/THE 8.4x KKR & CO LP 8.7x Average	9.5х 0UР LРЛТНЕ 11.2х 12.2х 11.0х	BLACKROCK INC INVESCO LTD ALLIANCEBERNS Average	BLACKROCK INC INVESCO LTD ALLIANCEBERNSTEIN HOLDING LF Average	17.1x 12.4x 12.5x 14.0x
Trading comps P/E2017E 13.6x MORGAN STANLEY HOULIHAN LOKEY INC 12.4x CITIGROUP INC EVERCORE PARTNERS INC-CL A 12.4x CITIGROUP INC MOELIS & CO - CLASS A 13.8x BARCLAYS PLC Average 13.3x Average	MORGAN STANLEY CITIGROUP INC BARCLAYS PLC Average	7.8x MORGAN STANLEY 7.3x BLACKSTONE GROUP LP/THE 6.4x KKR & CO LP 7.2x Average	7.8x 3.1x 5.7x 5.7x 7.2x	BLACKROCK INC INVESCO LTD ALLIANCEBERNS Average	BLACKROCK INC INVESCO LTD ALLIANCEBERNSTEIN HOLDING LF Average	14.9x 10.4x 11.4x

Growth (%)

Detailed forecasted book value

in US\$m		FY 2016F	FY 2017F	FY 2018F	<u>FY 2019F</u>	FY 2020F
Select balance sheet elemnts						
Goodwill		3,657	3,657	3,657	3,657	3,657
Other Intangibles		491	491	491	491	491
Preferred equity		12,200	13,200	14,200	15,200	16,200
(+) Common Stock		9	9	9	9	9
(+) Additional paid in capital		51,340	51,340	51,340	51,340	51,340
(+) Retained earnings		89,306	97,460	106,137	115,771	125,566
(-) Treasury stock		(65,522)	(69,122)	(72,722)	(76,322)	(79,922)
(+) Comprehensive income		3,433	3,433	3,433	3,433	, ,
•					*	3,433
Total Common Equity		78,565	83,120	88,197	94,231	100,426
Minority Interest		459	459	459	459	459
Shareholders equity		91,224	96,779	102,856	109,890	117,085
Book value						
Shares outstanding (m)		427	407	387	367 [*]	347
BV		78,565	83,120	88,197	94,231	100,426
Growth (%)		4.0%	5.8%	6.1%	6.8%	6.6%
BV/shares (US\$)	•	\$184.07	\$204.32	\$228.01	\$256.89	\$289.57
Growth (%)		7.6%	11.0%	11.6%	12.7%	12.7%
TBV		74,417	78,972	84,049	90,083	96,278
Growth (%)		4.3%	6.1%	6.4%	7.2%	6.9%
TBV/shares (US\$)	•	\$174.36	\$194.12	\$217.29	\$245.58	\$277.61

7.9%

11.3%

11.9%

13.0%

13.0%

Detailed regulatory information

G-SIB Surcharge

Under the proposal of the G-SIB Surcharge rule approved by the Federal Reserve Board in 2015, the U.S. global systemically important banks (G-SIB's) are required to further strengthen their capital position by holding additional capital to increase its resiliency in light of the greater threat it poses to the financial stability of the United States.

Eight U.S. firms are currently expected to be identified as GSIBs under the final rule: Bank of America Corporation; The Bank of New York Mellon Corporation; Citigroup, Inc.; The Goldman Sachs Group, Inc.; JPMorgan Chase & Co.; Morgan Stanley; State Street Corporation; and Wells Fargo & Company.

The G-SIB Surcharge rule requires GSIBs to calculate a risk-based capital surcharge under two methods and use the higher of the two surcharges. The first method considers a GSIB's size, interconnectedness, cross-jurisdictional activity, substitutability, and complexity; whereas the second method would take into account an institution's use of short-term wholesale funding.

The Federal Reserve estimates that the surcharge amount would range from 1.0 – 4.5 per cent of the GSIB's risk-weighted assets. The surcharges will be phased in beginning on January 1, 2016, becoming fully effective on January 1, 2019.

Supplementary Leverage Ratio

U.S. banking organizations have long been subject to a leverage capital requirement based on the ratio of a banking organization's Tier 1 capital to its average total consolidated on-balance sheet assets as reported in its regulatory report minus amounts deducted from Tier 1 capital ("U.S. leverage ratio").

The Revised Capital Framework includes a supplementary leverage ratio (SLR) requirement for advanced approach banking organizations approved in 2014. A key difference between the SLR and the U.S. leverage ratio is that the SLR takes into account both on-balance sheet and certain off-balance sheet assets and exposures. Therefore, the supplementary leverage ratio compares Tier 1 capital to a measure of leverage exposure, defined as total daily average assets for the quarter less certain deductions plus certain off-balance sheet exposures (derivatives exposures and commitments). The Revised Capital Framework requires G-SIBs a minimum supplementary leverage ratio of 5.0% (comprised of the minimum requirement of 3.0% and a 2.0% buffer) effective on January 1, 2018. A U.S. G-SIB that does not maintain an SLR of greater than 5%, will be subject to increasingly stringent restrictions on its ability to make capital distributions and discretionary bonus payments to executive officers.

Liquidity Coverage Ratio

The liquidity coverage ratio (LCR) rule, finalized in 2014 by the U.S. federal bank regulatory agencies, is designed to strengthen the liquidity positions of large and internationally active banking organizations. The rule standardizes a minimum liquidity requirement and, thus, each institution will be required to hold high quality, liquid assets, HQLA, (e.g. central bank reserves, government and corporate debt) that can be converted easily and quickly into cash in an amount equal to or greater than its projected cash outflows minus its projected cash inflows during a 30-day stress period. The ratio of the firm's liquid assets to its projected net cash outflow is its "liquidity coverage ratio," or LCR.

Detailed regulatory information

The rule is generally consistent with the Basel Committee's LCR standard, but is more stringent in certain areas, including a shorter transition period for implementation. Under the accelerated transition timeline, the LCR became effective in the United States on January 1, 2015, with a phase-in period whereby firms, including Group Inc. and GS Bank USA, must have an 80% and 90% minimum ratio in 2015 and 2016, respectively, and a 100% minimum ratio commencing in 2017. U.S. firms will be required to be fully compliant with the rule by January 1, 2017.

In addition, in 2015, the Federal Reserve Board proposed a rule that would require bank holding companies to disclose their LCR on a quarterly basis beginning in the quarter ended September 2016.

Comprehensive Capital Analysis and Review (CCAR) 2016

The purpose of CCAR is to ensure that large bank holding companies have robust, forward-looking capital planning processes that account for each institution's unique risks and that permit continued operations during times of economic and financial stress. As part of CCAR, the Federal Reserve Board evaluates an institution's plan to make capital distributions (e.g. repurchasing/redeeming stock, increasing dividend payments) across a range of macroeconomic and firm-specific assumptions.

On January 28, 2016, the Federal Reserve issued its annual summary instructions for its supervisory CCAR program for 2016 applicable to bank holding companies with \$50 billion or more of total consolidated assets. Thirty-three institutions will participate in CCAR 2016. Goldman Sachs must submit its capital plans for CCAR 2016 to the Federal Reserve on or before April 5, 2016.

The CCAR 2016 instructions differ in two aspects from previous instructions. First, these instructions provide additional details about how bank holding companies should implement the most recent technical amendments to the stress test and capital plan rules.1 In addition, these instructions do not contain details on supervisory expectations for bank holding companies' capital planning practices, but rather reference the Federal Reserve's recently published supervisory guidance for capital planning.

Income statement (base case)

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020F
Income statement											
· · · · · · · · · · · · · · · · · · ·			0	0	0	1	1	1	· ·	i i	
Investment banking	4,810	4,355	126,4	6,004	0,404	1,021	112,7	1,760	8,121	8,203	9,631
Insutation of least services	7 641	0.440	10,124	7,721	10,191	10,101	010,4	900'01	00,000	10,009	10,003
Investing & remaing	1,0	2,142	00,0	0.0,7	0,020	9000	2,002	0,000	0,240	741,7	0.00
III.	50,014	50,034	2776	2,403	0,042	0070	0,030	0,000	671,1	000,7	1,232
l otal revenue	39,161	1.18,82	34,164	34,206	34,528	33,820	33,/46	36,192	38,061	39,638	40,217
seisland tan out of ((10000)	(3006)	(V 00 0)	(0.470)	(00000)	(0.740)	(0000)	(000 0)	(4 064)	(4.400)	(4045)
(=) IIIVesullelit Daliniilg	(2,994)	(2,993)	(45,534)	(3,479)	(3,000)	(0000)	(3,022)	(3,000)	(4,001)	(4,132)	(4,013)
(-) Insuluional client services	(14,994)	(12,662)	(12,042)	(10,630)	(10,126)	(9,920)	(907,6)	(10,120)	(10,766)	(10,604)	(507,01)
(-) Investing & lending	(3,056)	(2,6/3)	(2,668)	(2,686)	(2,481)	(2,321)	(7,287)	(2,522)	(2,560)	(2,789)	(2,707)
(-) Investment management	(4,082)	(4,020)	(4,296)	(4,357)	(4,647)	(4,841)	(5,176)	(5,349)	(5,561)	(2,205)	(5,641)
(-) Corporate	(345)	(117)	(169)	(155)	(115)	(148)	(150)	(150)	(150)	(150)	(150)
(-) Total operating expenses	(25,471)	(22,467)	(22,509)	(21,507)	(21,057)	(20,951)	(21,140)	(22,021)	(23,100)	(23,180)	(23,578)
Investment banking adj. EBT	1,816	1,360	1,593	2,525	2,776	3,314	3,389	3,880	4,061	4,132	4,815
Institutional client services adj. EBT	6,802	4,618	6,082	4,891	5,071	5,223	5,112	5,449	5,798	5,965	5,774
Investing & lending adj. EBT	4,485	(531)	3.223	4.332	4.344	3,115	2.795	3.483	3,685	4.958	4.608
Investment management adi, EBT	932	1.014	926	1,106	1,395	1,365	1.460	1.509	1,568	1,553	1,591
(-) Adiusted corporate charges	(345)	(117)	(169)	(155)	(115)	(148)	(150)	(150)	(150)	(150)	(150)
Total adjusted EBT	13,690	6.344	11,655	12,699	13,471	12,869	12,606	14.171	14,962	16,458	16,639
									1		
(-) Non-operating expenses	(798)	(175)	(448)	(962)	(1,114)	(4,091)	(2,500)	(700)	(200)	(300)	(300)
Investment banking EBT	1,351	1,360	1,593	2,525	2,776	3,314	3,389	3,880	4,061	4,132	4,815
Institutional client services EBT	6,802	4,443	5,634	3,929	4,317	1,213	2,612	4,749	5,098	2,665	5,474
Investing & lending EBT	4,180	(531)	3,223	4,332	4,006	3,034	2,795	3,483	3,685	4,958	4,608
Investment management EBT	932	1,014	926	1,106	1,395	1,365	1,460	1,509	1,568	1,553	1,591
(-) Corporate charges	(373)	(117)	(169)	(155)	(137)	(148)	(120)	(120)	(120)	(120)	(120)
EBT	12,892	6,169	11,207	11,737	12,357	8,778	10,106	13,471	14,262	16,158	16,339
	(4 500)	(4 707)	(0 2 200)	(209.07)	(000 6/	(309.07	(0.400)	1361	(070 4)	1,004)	(5,046)
(-) III.collie tax expense	(4,330)	(1,121)	(3,732)	(2,097)	(3,000)	(2,093)	(3,103)	(4,130)	(4,379)	(4,901)	(3,016)
Net Income	0,034	4,442	1,473	0,040	0,477	6,003	600,7	6,000	9,000	181,1197	11,323
(-) Pref. dividends	(684)	(1.969)	(218)	(338)	(423)	(537)	(582)	(633)	(681)	(729)	(777)
Net income to common	7,670	2,473	7,257	7,702	8,054	5,546	6,418	8,702	9,202	10,468	10,546
(+) Adjustments	988	1,492	27	235	365	2,497	1,460	155	149	(182)	(147)
Normalized net income	8,556	3,965	7,284	7,937	8,419	8,043	7,879	8,857	9,351	10,286	10,399
W.A.charac (m.)	540	A25	406	474	450	770	422	402	383	362	342
W.A. diluted abote (m.)	595	567	130	174	473	440	724	407	200	200	240
N.A. dilated strates (III)	94 7 70	200	010	946.04	40.04	403	910 65	40,000	907 46	00000	00000
Normalized El 3 (334)	\$14.62	\$7.10	\$14.00	\$15.89	\$17.79	\$17.54	\$18.46	\$21.77	\$24.10	\$28.03	\$29.90
Notifialized diluted EFS (OS\$)	70.1	71.70	- - - - - - -	00.0	0	to:	9	47.1.70	179	10.029	66.624
Dividends											
	!	:	;	;	;	;	;	;	;	1	
Dividends per snare (US\$)	\$1.40	\$1.40	\$1.7.	\$2.05	\$2.25	\$2.55	\$2.11	\$5.33	43.82	44.57	\$5.04
Growth (%)	89 0	10 70/	20.4% 4.0 E%	15.8%	86.8%	13.3%	8.0%	20.3%	14.7%	19.7%	10.2%
rayout fauo (78)	9.0%	0/ 1/6/	0/0.3/	17.970	0/0/7	0/0:41	0.0.0	0,0,0	0.0%	0.0.0	0.07
Share buyback schedule											
Repurchases		69	36	13	16	10	19	20	20	20	20
(x) Average price paid							\$150.00	\$180.00	\$180.00	\$180.00	\$180.00
Aggregate repurchases							2.882	3,600	3.600	3.600	3,600

Income statement (bear case)

s 4 310 4 325 4 327 6 1004 7 1027 6 200 6	in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020F
A STATE NAME (ASSET) A STATE NAME (ASSET) C STATE N	ncome statement											
March Marc	nvestment banking	4,810	4,355	4,927	6,004	6,464	7,027	6,230	6,285	6,393	989'9	7,558
Maintain	nstitutional client services	21,796	17,280	18,124	15,721	15,197	15,151	12,943	13,031	13,289	14,152	14,018
1,000,000,000,000,000,000,000,000,000,0	vesting & lending	7,541	2,142	5,891	7,018	6,825	5,436	3,978	4,263	4,334	5,344	5,035
Comparison Com	nvestment management	5,014	5,034	5,222	5,463	6,042	907'9	6,462	219,9	6,873	899,9	/99'9
Comparison Com	otal revenue	191,65	1.1.8,82	34,164	34,206	34,528	33,820	29,613	30,191	30,889	32,85T	33,279
Carrier contents	-) Investment banking	(2,994)		(3,334)	(3,479)	(3,688)	(3,713)	(3,707)	(3,614)	(3,676)	(3,844)	(4,346)
October Carbon	 Institutional client services 	(14,994)	(12,662)	(12,042)	(10,830)	(10,126)	(9,928)	(9,254)	(9,252)	(6)369)	(6,977)	(9,813)
Companies Comp	-) Investing & lending	(3,056)		(2,668)	(2,686)	(2,481)	(2,321)	(2,148)	(2,132)	(2,210)	(2,405)	(2,467)
Participation of the properties Participation Participat	-) Investment management	(4,082)	(4,020)	(4,296)	(4,357)	(4,647)	(4,841)	(5,073)	(5,157)	(5,361)	(5,201)	(5,201)
the prefixing adjetition of the prefixing prefixing and the prefixing adjetition of the prefixing adjetition adjetition of the prefixing adjetition adjetitio	-) Corporate	(345)	(111)	(109)	(100)	(113)	(148)	(120)	(150)	(150)	(150)	(150)
	.) Total operating expenses	(174,62)	(22,401)	(52,509)	(700,17)	(760,12)	(166,02)	(20,332)	(50,303)	(20,786)	(0/6,12)	(0/6,12)
Decimination Deci	ivestment banking adj. EBT	1,816	1,360	1,593	2,525	2,776	3,314	2,523	2.671	2,717	2,842	3,212
Remains generated. EET 9425 1432 4434 1415 1450 2145 1451 145	stitutional client services adj. EBT	6,802	4,618	6,082	4,891	5,071	5,223	3,689	3,779	3,920	4,175	4,205
International ENT State	nvesting & lending adj. EBT	4,485	(531)	3,223	4,332	4,344	3,115	1,830	2,132	2,124	2,939	2,568
decomponent changes (344) (174) (165) (155) <td>nvestment management adj. EBT</td> <td>932</td> <td>1,014</td> <td>926</td> <td>1,106</td> <td>1,395</td> <td>1,365</td> <td>1,389</td> <td>1,455</td> <td>1,512</td> <td>1,467</td> <td>1,467</td>	nvestment management adj. EBT	932	1,014	926	1,106	1,395	1,365	1,389	1,455	1,512	1,467	1,467
stand EBT 13,690 6,344 11,665 12,899 13,471 12,889 92,81 10,123 enabling expenses (798) (175) (448) (962) (1,114) (4,091) (2,500) (700) (700) th banking EBT 1,381 1,386 2,525 2,776 3,344 2,523 2,677 3,344 2,523 2,717 and intrinservious EBT 6,020 (4,443) 5,534 3,324 4,004 1,004 3,024 1,009 1,004 1,009 1,004 1,009 1,004 1,009 1,004 1,009 1	 Adjusted corporate charges 	(345)	(117)	(169)	(155)	(115)	(148)	(150)	(150)	(150)	(150)	(150)
themking ERT 1,351 1,360 1,583 2,225 2,776 3,314 2,523 2,671 2,717 1,218 1,189 2,022 4,443 5,634 3,929 4,937 1,218 1,189 2,027 2,124 1,92 1,136	otal adjusted EBT	13,690	6,344	11,655	12,699	13,471	12,869	9,281	9,886	10,123	11,273	11,302
te charges Lack per charges) Non-operating expenses	(798)	(175)	(448)	(962)	(1,114)	(4,091)	(2,500)	(100)	(100)	(300)	(300)
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,												
Remains services Earl 6,002 4,443 3,024 4,317 1,1213	vestment banking EBT	1,351	1,360	1,593	2,525	2,776	3,314	2,523	2,671	2,717	2,842	3,212
trinangement ET	Stitutional client services EBI	6,802	4,443	5,634	3,929	4,317	1,213	1,189	3,079	3,220	3,8/5	3,905
tax expenses (373) (117) (169) (150) (150) (150) (160)	vesting & lending EBT	4,100	(331)	9,223	4,332	4,006	3,034	1,030	2,132 1.455	2,124	1.467	1,300
tax expense (4.538) (1,727) (3,732) (3.697) (3.890) (2.895) (2.092) (2.893) (2.893) defends (4.538) (1,727) (3,732) (3.697) (3.890) (2.895) (2.893) (2.893) (2.893) defends (684) (1,969) (218) (218) (3.38) (423) (5.946) (2.893) (681) et common 7,670 2,473 7,257 7,702 8,044 5,546 4,114 5,733 6,849 et common 7,670 2,473 7,257 7,702 8,044 5,546 4,114 5,733 6,849 defined 1,696 7,284 7,284 7,397 8,419 8,043 4,144 5,733 6,849 defined 1,696 3,565 3,565 7,284 7,792 8,049 4,42 4,14 6,733 6,849 defined 1,696 3,565 3,14,68 3,13,72 3,12 3,12 3,12 3,12 <td>Corporate charges</td> <td>(373)</td> <td>(117)</td> <td>(169)</td> <td>(155)</td> <td>(137)</td> <td>(148)</td> <td>(150)</td> <td>(150)</td> <td>(150)</td> <td>(150)</td> <td>(150)</td>	Corporate charges	(373)	(117)	(169)	(155)	(137)	(148)	(150)	(150)	(150)	(150)	(150)
Receptorse Rec	ВТ	12,892	6,169	11,207	11,737	12,357	8,778	6,781	9,186	9,423	10,973	11,002
1,200 1,10		1003 47	(50,50	000	í co	000	9	â	(000	(0000)	0000	()
Ademots (684) (1,969) (218) (336) (423) (537) (585) (633) (681) Ademots (684) (1,969) (218) (336) (423) (537) (585) (633) (681) Incommon 7,670 2,473 7,702 8,054 5,546 4,114 5,733 5,849 Annelis 886 1,492 27 27 235 365 2,497 1,686 446 478 489 Admitted memory 8,566 3,965 7,284 7,937 8,419 8,043 5,801 416 478 Admitted EV (USS) 515.79 516.84 517.92 449 422 407 387 Admitted EPS (USS) 515.79 516.84 518.34 517.34 \$16.55 \$16.55 Additude EPS (USS) 514.62 \$14.11 \$15.89 \$17.79 \$17.84 \$16.55 \$16.55 Additude EPS (USS) \$14.59 \$14.59 \$18.89 \$19.19) IIIcollie tax expellse	(4,330)	(1,727)	(3,132)	(2,037)	(0,000)	(2,093)	(2,002)	(2,020)	(2,033)	(5,309)	7.637
Addends (684) (1969) (218) (336) (423) (537) (585) (633) (681) et o common 7,670 2,473 7,267 7,702 8,664 5,546 4,114 5,733 (681) et o common 7,670 2,473 7,702 8,664 5,546 4,114 5,733 6,849 nents 886 1,492 2,7 2,25 365 2,497 1,686 446 478		6,034	4,442	1,413	0,040	0,411	6,003	4,033	0,200	0,50	1,604	1,024
re to common 7,670 2,473 7,257 7,702 8,054 5,546 4,114 5,733 5,849 nents 886 1,492 27 235 365 2,497 1,686 446 478 d net income 8,556 3,965 7,284 7,37 8,419 8,043 5,801 6,179 478 s (m) 542 555 496 471 459 422 402 478 d shares (m) 585 557 516 471 459 422 402 382 d shares (m) 585 557 516 471 459 422 402 382 d shares (m) 585 57.56 \$14.68 \$16.84 \$13.35 \$17.33 \$15.36 \$16.55 d diluted EPS (US\$) \$14.62 \$14.11 \$15.89 \$17.79 \$17.54 \$16.36 \$16.36 per share (US\$) \$14.62 \$1.249 \$12.89 \$12.99 \$12.69 \$12.49) Pref. diwdends	(684)	(1,969)	(218)	(338)	(423)	(537)	(582)	(633)	(681)	(729)	(777)
nents 886 1,492 27 235 365 2,497 1,686 446 478 478 479	et income to common	7,670	2,473	7,257	7,702	8,054	5,546	4,114	5,733	5,849	6,875	6,848
sefect 3,965 7,284 7,337 8,419 8,043 5,801 6,179 6,327 s (m) 542 525 496 471 459 449 422 407 382 d charles (m) 585 557 516 500 473 459 422 407 387 d charles (m) 515,79 \$7,56 \$14.68 \$16.84 \$18.35 \$17.92 \$17.37 \$16.36 \$16.36 d charles (m) \$14.62 \$7,12 \$14.11 \$15.89 \$17.54 \$15.99 \$16.36 d charles (m) \$14.62 \$14.68 \$14.68 \$17.79 \$17.54 \$16.36 \$16.36 d charles (m) \$14.62 \$14.68 \$17.54 \$16.36 \$16.36 \$16.36 d charles (m) \$14.68 \$14.58 \$17.54 \$18.96 \$19.76 \$18.96 \$18.96 \$19.76 charles (m) \$14.56 \$14.56 \$14.56 \$16.89 \$18.96 \$19.76 \$17.59	+) Adjustments	886	1,492	27	235	365	2,497	1,686	446	478	170	216
s (m) 542 525 496 471 459 449 422 402 382 dshares (m) 585 557 516 516 500 473 459 427 407 387 deleved metron (US\$) \$15.79 \$7.12 \$14.68 \$16.84 \$18.35 \$17.59 \$17.54 \$13.73 \$15.39 \$16.36 \$16.35 ddiluted EPS (US\$) \$14.62 \$7.12 \$14.11 \$15.89 \$17.79 \$17.79 \$17.54 \$13.59 \$15.19 \$16.36 \$16.36 \$16.36 \$16.36 \$17.79 \$17.79 \$17.59 \$17.54 \$13.59 \$15.19 \$16.36 \$16.30 \$16	lormalized net income	8,556	3,965	7,284	7,937	8,419	8,043	5,801	6,179	6,327	7,046	7,064
d shares (m) 565 577 516 510 473 479 472 477 387 387 387 387 387 387 387 387 387 3	/ v chock (m)	643	525	406	471	450	770	422	403	COC	262	242
d EPS (US\$) \$15.79 \$7.56 \$14.68 \$16.84 \$16.84 \$16.85 \$17.59 \$17.79 \$17.54 \$13.73 \$16.36 \$16.55 d diluted EPS (US\$) ber share (US\$) \$14.62 \$7.12 \$14.11 \$15.89 \$17.79 \$17.79 \$17.79 \$17.54 \$13.79 \$17.54 \$13.79 \$16.36 \$16.30 \$	/Adiluted shares (m)	585	557	516	500	473	459	427	407	387	367	347
per share (US\$) \$14.62 \$7.12 \$14.11 \$15.89 \$17.79 \$17.54 \$13.59 \$15.19 \$16.36 \$16.30 \$	ormalized EPS (US\$)	\$15.79	\$7.56	\$14.68	\$16.84	\$18.35	\$17.92	\$13.73	\$15.36	\$16.55	\$19.44	\$20.63
per share (US\$) \$1.40 \$1.77 \$2.05 \$2.25 \$2.55 \$2.56 \$2.87 \$3.12 \$1.00 \$1.77 \$2.05 \$2.25 \$2.55 \$2.56 \$2.87 \$3.12 \$1.00 \$1	lormalized diluted EPS (US\$)	\$14.62	\$7.12	\$14.11	\$15.89	\$17.79	\$17.54	\$13.59	\$15.19	\$16.36	\$19.21	\$20.37
per share (US\$) \$1.40 \$1.77 \$2.05 \$2.25 \$2.55 \$2.56 \$2.87 \$3.12 10 (%) 12.9% 12.9% 12.9% 14.5% 18.8% 18.9% 19.1% 19.1% 18.8% 18.00 \$180.00	jividends											
9.6% 19.7% 12.5% 12.9% 13.3% 0.2% 12.4% 8.8% 19.7% 10.7% 12.5% 12.9% 12.6% 14.5% 18.8% 18.9% 19.1% 19.1% 10.	ividends ner share (1158)		\$1.40	\$1.77	\$2.05	\$2.25	\$2.55	\$2.56	\$2.87	\$3.12	\$3.71	\$3.97
9.6% 19.7% 12.5% 12.9% 12.6% 14.5% 18.8% 18.9% 19.1% 19.1% 19.1% 19.1% 10.00	maching per engle (Cet)) 	2	26.4%	15.8%	%8 0	13 3%	%00	12.4%	% & &	18 7%	7 1%
69 36 13 16 10 19 20 20 20 \$180.00	ayout ratio (%)	%9.6	19.7%	12.5%	12.9%	12.6%	14.5%	18.8%	18.9%	19.1%	19.3%	19.5%
69 36 13 16 10 19 20 20 20 8180.00	hare buyback schedule											
ce paid 69 36 13 16 10 19 20 20 10 150.00 \$180.00												
\$150.00 \$180.00 \$180.00	tepurchases		69	36	13	16	10	19	20	20	20	20
	x) Average price paid							\$150.00	\$180.00	\$180.00	\$180.00	\$180.00

Income statement (bull case)

in US\$m	FY 2010A	FY 2011A	FY 2012A	FY 2013A	FY 2014A	FY 2015A	FY 2016F	FY 2017F	FY 2018F	FY 2019F	FY 2020E
Income statement											
Investment banking	4,810	4,355	4,927	6,004	6,464	7,027	7,585	8,623	9,133	9,170	10,690
Institutional client services	21,796	17,280	18,124	15,721	15,197	15,151	15,611	16,605	17,743	18,098	17,973
Investing & lending	7,541	2,142	5,891	7,018	6,825	5,436	5,604	6,636	6,901	8,589	8,120
Investment management	5,014	5,034	5,222	5,463	6,042	6,206	6,669	6,932	1,275	7,346	1,854
lotal leveline	- 02,60	70,07	4,10	24,400	070'+0	029,650	004,00	06,1,00	700,14	t0,2,54	700,44
(-) Investment banking	(2,994)	(2,995)	(3,334)	(3,479)	(3,688)	(3,713)	(3,792)	(4,311)	(4,566)	(4,585)	(5,345)
(-) Institutional client services	(14,994)	(12,662)	(12,042)	(10,830)	(10,126)	(9,928)	(10,303)	(10,959)	(11,710)	(12,126)	(12,222)
(-) Investing & lending	(3,056)	(2,673)	(2,668)	(2,686)	(2,481)	(2,321)	(2,298)	(2,522)	(2,554)	(3,006)	(2,842)
(-) Investment management	(4,082)	(4,020)	(4,296)	(4,357)	(4,647)	(4,841)	(5,202)	(2,407)	(5,674)	(5,730)	(6,127)
(-) Total operating expenses	(25,471)	(22,467)	(22,509)	(21,507)	(21,057)	(20,951)	(21,745)	(23,350)	(24,655)	(25,597)	(26,685)
Investment banking adj. EBT	1,816	1,360	1,593	2,525	2,776	3,314	3,792	4,311	4,566	4,585	5,345
Institutional client services adj. EBT	6,802	4,618	6,082	4,891	5,071	5,223	5,308	5,646	6,033	5,972	5,751
Investing & lending adj. EBT	4,485	(531)	3,223	4,332	4,344	3,115	3,306	4,114	4,348	5,583	5,278
Investment management adj. EB I	932	1,014	926	1,106	1,395	1,365	1,467	1,525	1,600	1,616	1,728
(-) Adjusted colporate charges Total adjusted EBT	13,690	6.344	11,655	12,699	13,471	12,869	13,723	15,447	16,398	17,607	17,952
(-) Non-operating expenses	(798)	(175)	(448)	(962)	(1,114)	(4,091)	(2,500)	(200)	(200)	(300)	(300)
Investment banking FRT	1351	1360	1 593	2 525	2776	3.314	3 792	4 311	4 566	4 585	5345
Institutional client services EBT	6.802	4.443	5.634	3.929	4.317	1.213	2.808	4.946	5,333	5.672	5.451
Investing & lending EBT	4,180	(531)	3,223	4,332	4,006	3,034	3,306	4,114	4,348	5,583	5,278
Investment management EBT	932	1,014	926	1,106	1,395	1,365	1,467	1,525	1,600	1,616	1,728
(-) Corporate charges	(373)	(117)	(169)	(155)	(137)	(148)	(150)	(150)	(150)	(150)	(150)
EBT	12,892	6,169	11,207	11,737	12,357	8,778	11,223	14,747	15,698	17,307	17,652
(-) Income fax exnense	(4 538)	(1727)	(3 732)	(3 697)	(3.880)	(2 695)	(3 446)	(4.527)	(4.819)	(5.313)	(5 4 19)
Net income	8.354	4.442	7.475	8.040	8.477	6.083	7.778	10.219	10.878	11.993	12.232
		!									
(-) Pref. dividends	(684)	(1,969)	(218)	(338)	(423)	(537)	(282)	(633)	(681)	(729)	(777)
Net income to common	7,670	2,473	7,257	7,702	8,054	5,546	7,193	9,586	10,197	11,264	11,456
(+) Adiustments	886	1.492	27	235	365	2.497	1.384	89	51	(260)	(236)
Normalized net income	8,556	3,965	7,284	7,937	8,419	8,043	8,577	9,654	10,248	11,004	11,220
M & charac (m)	542	525	496	471	450	449	422	402	380	362	342
W.Adiluted shares (m)	585	557	516	200	473	459	427	407	387	367	347
Normalized EPS (US\$)	\$15.79	\$7.56	\$14.68	\$16.84	\$18.35	\$17.92	\$20.31	\$23.99	\$26.80	\$30.37	\$32.77
Normalized diluted EPS (US\$)	\$14.62	\$7.12	\$14.11	\$15.89	\$17.79	\$17.54	\$20.10	\$23.73	\$26.49	\$30.00	\$32.35
Dividende											
Dividends per share (US\$)	\$1.40	\$1.40	\$1.77	\$2.05	\$2.25	\$2.55	\$3.01	\$3.56	\$3.97	\$4.50	\$4.85
Growth (%)	•	1 ;	26.4%	15.8%	%8.6	13.3%	18.2%	18.1%	11.6%	13.2%	7.8%
Payout ratio (%)	%9.6	19.7%	12.5%	12.9%	12.6%	14.5%	15.0%	15.0%	15.0%	15.0%	15.0%
Share buyback schedule											
Repurchases		69	36	13	16	10	19	20	20	20	20
(x) Average price paid							\$150.00	\$180.00	\$180.00	\$180.00	\$180.00
Addresses							700.7	0.000	0.000	0.000	2.000