

Apple Inc (AAPL)

Rating	OUTPERFORM*
Price (01 Nov 12, US\$)	596.80
Target price (US\$)	750.00 ¹
52-week price range	702.10 - 363.50
Market cap. (US\$ m)	561,404.99

*Stock ratings are relative to the coverage universe in each analyst's or each team's respective sector.

¹Target price is for 12 months.

Research Analysts

Kulbinder Garcha

212 325 4795

kulbinder.garcha@credit-suisse.com

Achal Sultania

44 20 7883 6884

achal.sultania@credit-suisse.com

Talal Khan, CFA

212 325 8603

talal.khan@credit-suisse.com

Vlad Rom

212 325 5442

vlad.rom@credit-suisse.com

Alban Gashi

212 538 3033

alban.gashi@credit-suisse.com

Matthew Cabral

212 538 6260

matthew.cabral@credit-suisse.com

Ray Bao

212 325 1227

ray.bao@credit-suisse.com

COMMENT

10K insights: Preparing for growth

- **Reiterate Outperform, TP \$750.** Apple's recent 10-K filing points to the company continuing to invest for a significant level of growth. Fundamentally, with a structural advantage in the compute market, Apple should deliver a robust EPS CAGR of 25% FY12-14, driving \$75 of long term earnings power. Trading on a P/E of 10x our CY13 EPS of \$60, shares are inexpensive given the growth profile and \$128 of net cash/share.
- **Purchase obligations suggest upside to our above consensus iOS volumes of 285mn in FY13.** Per the 10-K filing, Apple has committed to purchase obligations of \$21.1bn (+51% yoy) over the next 12 months. This is important given a solid historic correlation between purchase obligations and iOS volumes shipped over the next year (average of \$66 per device over FY10-12). If this relationship continues to hold true, it suggests that Apple will ship 317mn iOS devices in FY13 (iPhone, iPad, iPod Touch), 11% above our 285mn estimate.
- **Conservative CapEx guidance up 25%; suggesting robust iOS volumes.** Apple expects CapEx (ex-retail) of \$9.15bn in FY13, down 3% vs. reported CapEx in FY12. While this looks disappointing vs. reported growth of 137% in FY12, we believe even this guidance could imply upside to iOS volumes. Here, we note that last year's CapEx may have been inflated by a one-time uptick in purchasing equipment and securing capacity at suppliers. Adjusting for this and using a CapEx per iOS unit of \$32 (in line with the FY10-11 average), suggests iOS units of 288mn (1% higher than our estimate of 285mn). Furthermore, Apple has traditionally overspent guidance by an average of 32%, ex-retail, over the last 3 years, lending further conservatism to estimates.
- **Retail expansion on track – China delivering on EM potential.** Apple is planning to open 30-35 new stores during FY13, with 75% outside the US, which would take its store count from 390 to 425. With Apple's China revenue up 83% yoy in FY12 to \$21bn, we believe the company will have captured 40% of its LT opportunity in China alone (~\$40bn by 2015). Through retail and carrier expansion in EMs, Apple can drive an incremental \$87bn in sales and \$21 EPS through 2015. For further details please see our June 15, 2012 note titled 'Emerging Apple – On track to realize potential'.

Share price performance



On 11/01/12 the S&P 500 INDEX closed at 1427.52

Quarterly EPS	Q1	Q2	Q3	Q4
2011A	6.43	6.40	7.79	7.05
2012A	13.87	12.30	9.32	8.67
2013E	14.59	13.78	13.75	13.14

Financial and valuation metrics

Year	09/11A	09/12A	09/13E	09/14E
EPS - (Excl. ESO) (US\$)	28.62	45.54	56.63	70.06
EPS (CS adj.) (US\$)	27.68	44.16	55.26	68.69
Prev. EPS (CS adj.) (US\$)	—	—	—	—
P/E (CS adj., x)	21.6	13.5	10.8	8.7
P/E rel. (CS adj., %)	—	89.0	75.8	67.6
Revenue (US\$ m)	108,249.0	156,508.0	205,314.7	250,477.7
EBITDA (US\$ m)	35,604.0	58,518.0	73,819.1	89,349.6
Net debt (US\$ m)	-25,952	-29,129	-62,493	-62,454
OCFPS (US\$)	40.07	53.82	64.15	68.48
P/OCF (x)	9.5	12.4	9.3	8.7
Number of shares (m)	940.69	Price/sales(x)	2.76	
BV/share (Next Qtr., US\$)	137.2	P/BVPS (x)	4.6	
Net debt (Next Qtr., US\$ m)	-37,371.3	Dividend (Next Qtr., US\$)	—	
Dividend yield (%)	—			

Source: Company data, Credit Suisse estimates.

DISCLOSURE APPENDIX CONTAINS IMPORTANT DISCLOSURES, ANALYST CERTIFICATIONS, INFORMATION ON TRADE ALERTS, ANALYST MODEL PORTFOLIOS AND THE STATUS OF NON-U.S. ANALYSTS. U.S. Disclosure: Credit Suisse does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

10-K insights: Preparing for growth

In its recent 10-K filing, Apple provided disclosures around capital expenditure plans for FY13 along with purchase obligations, similar to prior years. In the past, both these items have seen a strong correlation with the number of iOS devices sold in the next 12 months. As such, after reviewing CapEx guidance, we find that iOS numbers could prove conservative.

Guiding for CapEx increase of 25% in FY13 to \$10bn

For FY13, Apple is guiding for a total CapEx budget of \$10bn, up 25% yoy compared to previous year's guidance of \$8bn. Within this, it expects to spend \$850mn for retail store facilities and \$9.15bn for other CapEx items (which include product tooling and manufacturing process equipment, and corporate facilities/infrastructure including information systems hardware, software and enhancements). This \$9.15bn of CapEx budget is something which gives us some insight into Apple's growth prospects over the next year. As such, we would note the following points here:

Exhibit 1: Apple is spending an average of \$36 of CapEx (excl. retail) per iOS device FY10-FY12

Units ('000)	FY07	FY08	FY09	FY10	FY11	FY12
iPhone	1,389	11,627	20,731	39,989	72,293	125,046
iPad	0	0	0	7,458	32,394	67,276
iPod Touch	240	7,260	16,670	23,304	17,792	17,659
iOS devices ('000)	1,629	18,887	37,401	70,751	122,479	209,982
CapEx actual reported (M&E, corporate, infrastructure) (\$ mn)	528	702	775	2,196	3,986	9,460
CapEx spend (excl. retail) per unit (\$)	324	37	21	31	33	45
CapEx spend (excl. retail) per unit (\$) (average over FY10-12)						36
CapEx spend (excl. retail) per unit (\$) (average over FY10-11)						32

Source: Company data, Credit Suisse estimates. M&E refers to Machinery & Equipment related spending

CapEx (excl. retail) per iOS device has been \$36 on an average over the last 3 years. If we look at the reported CapEx spent on product tooling and manufacturing process equipment along with corporate facilities and infrastructure, we find that the CapEx per iOS device (includes iPhone, iPad and iPod Touch) sold by Apple has been \$36 per device on an average over the last 3 years. Specifically, this number was \$31 in FY10, \$33 in FY11 and \$45 in FY12, as shown in Exhibit 1.

However, \$45 of CapEx per iOS device in FY12 is inflated in our view. We would note that the CapEx (excl. retail) of \$45 per iOS device in FY12 is higher than normal levels given Apple changed the way they spent CapEx by investing heavily in machinery and equipment, securing capacity at some of its manufacturing partners. We believe this to be one-off in nature, and hence CapEx per iOS device should return to normal levels seen during FY10 and FY11. Consequently, we use CapEx per iOS seen in FY10 and FY11 of \$31 to \$33, with an average of \$32.

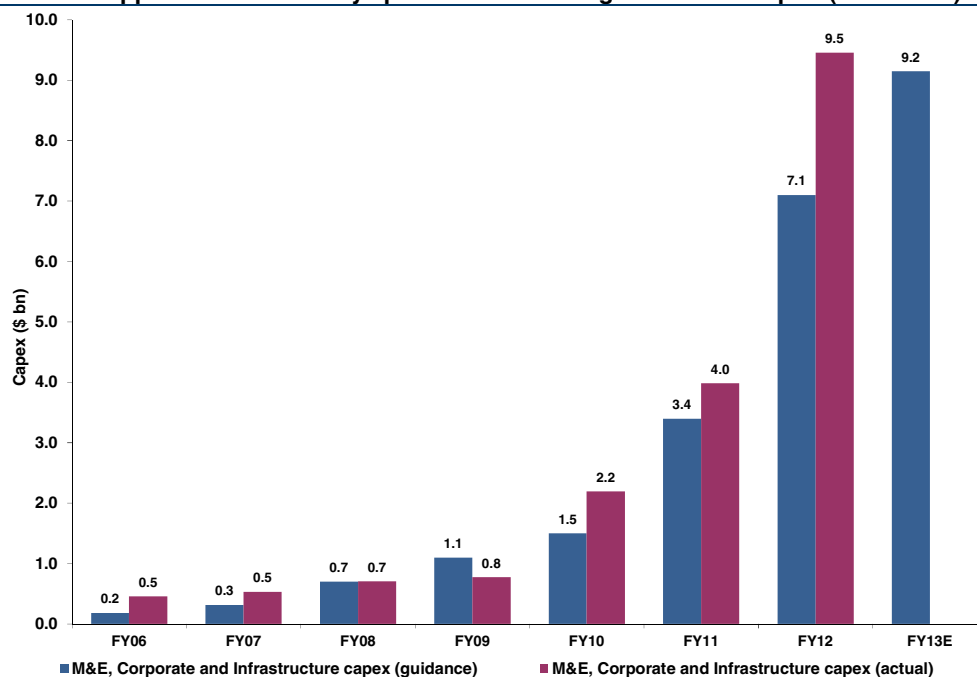
Exhibit 2: \$32 of CapEx per iOS device implies 288mn units in FY13*Number of iOS units to be sold in FY13 based on Apple's CapEx (excl. retail) guidance*

iOS unit analysis	FY13E
CapEx guidance (M&E, corporate, infrastructure) (\$ mn)	9,150
Spend per iOS unit (average FY10-12)	\$36
Implied iOS units ('000)	252,683
CS estimate for iOS units ('000)	284,843
Upside / Downside (%)	-11.3%
CapEx guidance (M&E, corporate, infrastructure) (\$ mn)	9,150
Spend per iOS unit (average FY10-11)	\$32
Implied iOS units ('000)	287,814
CS estimate for iOS units ('000)	284,843
Upside / Downside (%)	1.0%

Source: Company data, Credit Suisse estimates

\$32 of CapEx per iOS device yields 288mn iOS units in FY13, 1% higher than our estimate. If we were to take the average number of \$32 for CapEx per iOS device sold by Apple, this would imply total iOS device units of 288mn in FY13 (up 37% yoy) based on company's guidance of \$9.15bn of CapEx to be spent on product tooling and manufacturing process equipment along with corporate facilities and infrastructure in FY13. This compares to our estimate of 285mn iOS devices (split as 178mn iPhone, 93mn iPad and 14mn iPod touch) in FY13 (up 36% yoy), implying 1% volume upside to our estimates, as shown in Exhibit 2.

If we use a CapEx number of \$36 per iOS device, this would suggest total iOS device volumes of 253mn in FY13, which is 11% lower than our estimate (Exhibit 2). However, as we discuss earlier, we believe this \$36 average over FY10-12 is being inflated by one-time uptick in purchasing equipment and securing capacity at its suppliers last year (CapEx per iOS device in FY12 was \$45). As such, we believe the average CapEx of \$32 per device is the right number to use for forecasting iOS volume shipments in FY13.

Exhibit 3: Apple has consistently spent more than its guidance on CapEx (excl. retail)*Source: Company data, Credit Suisse research*

However, Apple has spent more than its CapEx guidance in the past. However, one thing to note here is that Apple has spent significantly more on CapEx for product tooling and manufacturing process equipment along with corporate facilities and infrastructure in the last few years than guidance called for at the start of fiscal year (Exhibit 3). In fact, the reported CapEx numbers for product tooling and manufacturing process equipment, along with corporate facilities and infrastructure, has been on an average some 32% higher than the company's guidance over the last 3 years. This suggests that Apple could potentially end up spending more than its guidance of \$9.15bn for FY13, as can be seen in Exhibit 4.

Exhibit 4: Detailed breakdown of Apple's capex guidance and actual spend over the last few years
in \$ millions, unless otherwise stated

Apple fiscal year	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13E
Capex - Actual reported								
Retail store facilities	200	294	389	369	404	614	865	na
M&E, corporate, infrastructure	457	528	702	775	2,196	3,986	9,460	na
Total (\$ mn)	657	822	1,091	1,144	2,600	4,600	10,325	na
% change yoy		25%	33%	5%	127%	77%	124%	
Capex - Actual cash payments								
Retail store facilities	200	294	389	369	400	612	865	na
M&E, corporate, infrastructure	457	441	702	775	1,605	3,648	7,430	na
Total (\$ mn)	657	735	1,091	1,144	2,005	4,260	8,295	na
% change yoy		12%	48%	5%	75%	112%	95%	
Capex - Company guidance								
Retail store facilities	210	360	400	400	400	600	900	850
M&E, corporate, infrastructure	180	315	700	1,100	1,500	3,400	7,100	9,150
Total (\$ mn)	390	675	1,100	1,500	1,900	4,000	8,000	10,000
% change yoy		73%	63%	36%	27%	111%	100%	25%
% change yoy (vs. actual reported)		3%	34%	37%	66%	54%	74%	-3%
% difference - actual versus guidance								
Retail store facilities	-4.8%	-18.3%	-2.8%	-7.8%	1.0%	2.3%	-3.9%	na
M&E, corporate, infrastructure	153.9%	67.6%	0.3%	-29.5%	46.4%	17.2%	33.2%	na
Total	68.5%	21.8%	-0.8%	-23.7%	36.8%	15.0%	29.1%	na

Source: Company data, Credit Suisse estimates

Assuming higher CapEx (excl. retail) implies 334mn iOS devices in FY13. Similar to last 3 years, if we were to assume that Apple spends around 32% higher than its guidance of \$9.15bn for product tooling and manufacturing process equipment along with corporate facilities and infrastructure, that would imply a CapEx (excluding retail) of \$12.1bn for FY13. Then even assuming \$36 of CapEx per iOS device would suggest total iOS device shipments of 334mn (up 59% yoy) in FY13. This is around 17% higher than our estimate of 285mn iOS devices to be shipped during FY13, as detailed in Exhibit 5.

Exhibit 5: iOS volumes for FY13 based on upside to Apple's capex (excl. retail) guidance

iOS unit analysis based on upside to Apple's CapEx guidance	FY13E
CapEx in upside scenario (M&E, corporate, infrastructure) (\$ mn)	12,105
Spend per iOS unit (average FY10-12)	\$36
Implied iOS units ('000)	334,278
CS estimate for iOS units ('000)	284,843
Upside / Downside (%)	17.4%

Source: Company data, Credit Suisse estimates

Purchase obligations suggest upside to our above consensus iOS numbers

Apart from CapEx, another lead indicator of device shipments has been purchase obligations. These purchase obligations are related to Apple using several outsourcing partners to manufacture sub-assemblies for its products and to perform final assembly and testing of finished products. Looking at purchase obligation numbers, which Apple reported in its 10-K filing, we would highlight the following points:

Purchase obligations rising to \$21.1bn, up 51% yoy. In its 10-K filing, Apple also noted that it has \$21.1bn of purchase obligations (up 51% yoy) and these payments are due in less than 1 year. This compares to our estimate of 36% yoy increase in iOS device shipments in FY13, which we assume rising from 210mn units in FY12 to 285mn in FY13.

Purchase obligations per iOS device have been \$68 on an average. A more accurate way to see what purchase obligations tells us about future Apple sales is by looking at the purchase obligation number per iOS device sold by Apple in the next 12 months. This number on an average has been \$68 in the last 3 years, with the range being \$66 to \$71.

Purchase obligations of \$66 per iOS device implies 317mn iOS devices in FY13. If we were to assume that purchase obligations per iOS device remains the same as last year at \$66, then \$21.1bn of purchase obligations due over the next 12 months implies Apple may sell around 317mn units in FY13, which is 11% higher than our estimate of 285mn units for FY13, as we show in Exhibit 6.

Exhibit 6: \$66 of purchase obligation per iOS device implies 317mn units in FY13 (11% higher than our forecast)
in \$ millions, unless otherwise stated

	FY07	FY08	FY09	FY10	FY11	FY12	FY13E
Operating leases	1,425	1,760	1,922	2,089	3,032	4,414	
Purchase obligations	3,179	5,378	4,783	8,700	13,949	21,053	
Other outstanding obligations	74	499	388	1,096	2,415	988	
Total	4,678	7,637	7,093	11,885	19,396	26,455	
iOS device sell-in units ('000)	1,629	18,887	37,401	70,751	122,479	209,982	
Purchase Obligations per iOS device sold next year (\$)		144	68	71	66		
Assuming purchase obligation per iOS device is the same for FY13							66
Implied iOS units ('000)							316,922
CS estimate for iOS units ('000)							284,843
Upside / Downside (%)							11.3%

Source: Company data, Credit Suisse estimates

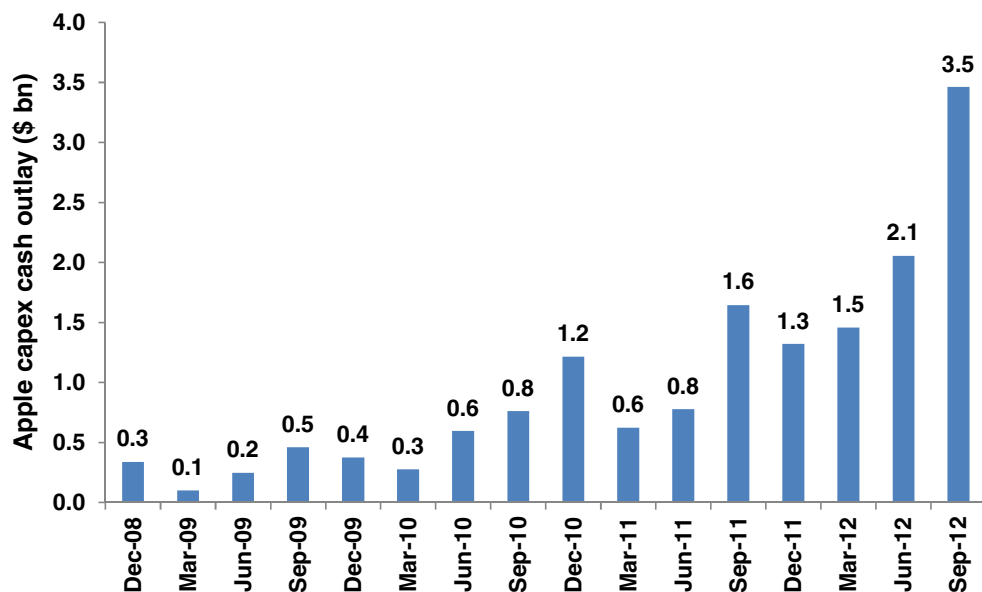
Apple's scale continues to rise – growing CapEx and semiconductor purchases

Another interesting aspect related to increasing CapEx spend at Apple is the increasing level of scale for the company versus its technology peers. As such, in this section, we try and compare CapEx trends at Apple to some of the leading technology companies. In addition, according to recent estimates from iSuppli, Apple continues to maintain a significant lead over others when it comes to buying semiconductor components from the industry. Both these trends suggest that Apple's scale continues to rise, which may result in the company continuing to benefit from economies of scale and purchasing power, as it continues to see strong growth in its top-line.

Apple's CapEx outflows have seen significant increase recently. Apple has spent around \$5.5bn in CapEx in the last 6 months (split as \$2.1bn in Jun quarter and \$3.5bn in Sep quarter), as detailed in Exhibit 7. Looking at the historic CapEx movements, we would note that the company typically sees a material increase in CapEx outlays in 2H of calendar year in the past, which may be linked to launch of new iPhone versions. Another way to look at it is, if we were to annualize the CapEx spent over the last 6 months, Apple may end up spending \$11bn in CapEx during FY13.

Exhibit 7: CapEx spending at Apple has seen significant increases

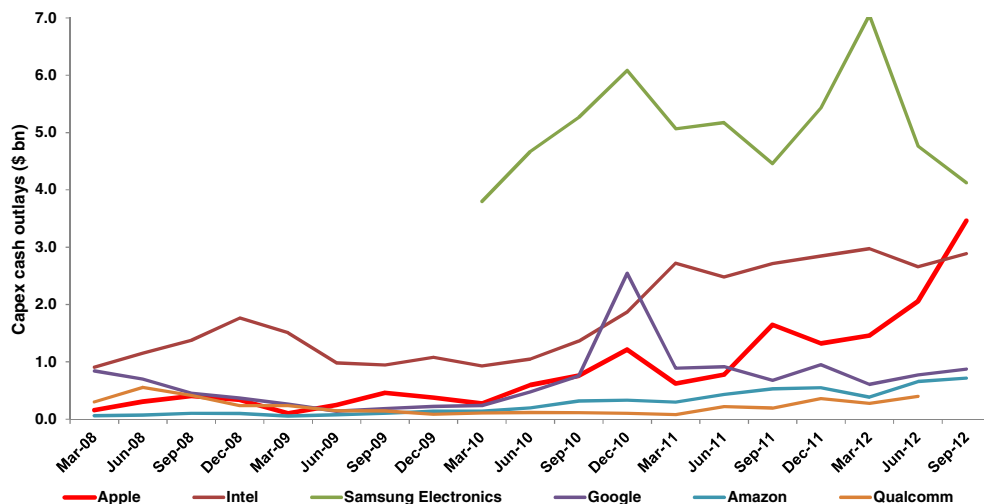
Apple's cash CapEx outflows over time



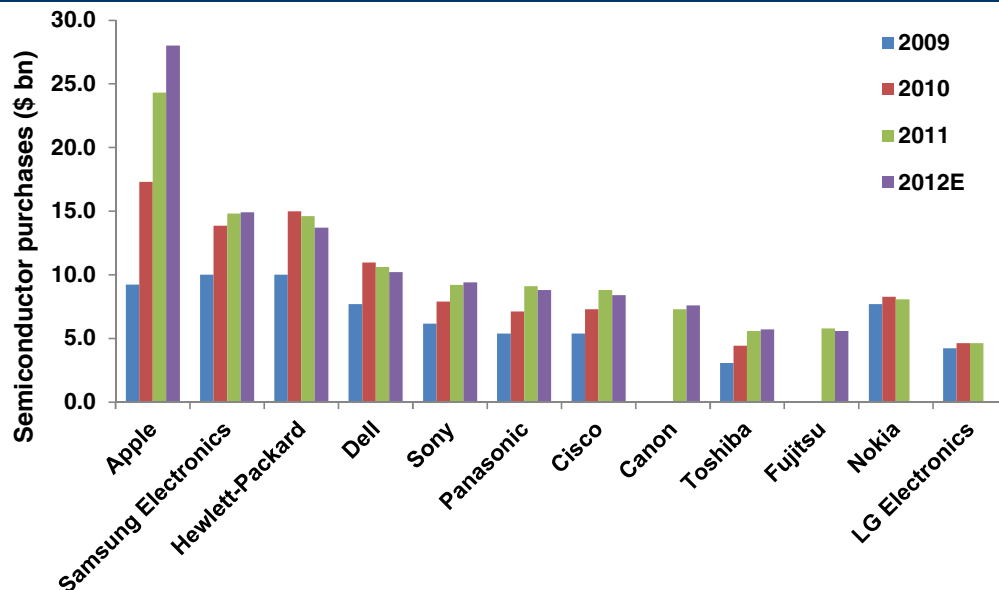
Source: Company data, Credit Suisse research

Comparing Apple's CapEx to some of the tech peer group, nearly outspending some capital intensive businesses. Also looking at the absolute levels of CapEx spent by Apple, we would note that driven by significant increases in CapEx over the last couple of years, Apple's CapEx is significantly higher than a number of tech peers which we believe are leaders in terms of technological innovation including Google, Amazon and Qualcomm. In the most recent quarter, it also spent more than Intel which has a capital intensive business model, and has also narrowed the gap with Samsung, as shown in Exhibit 8.

What is also worth mentioning here is that Apple's product portfolio is focused around 4 key product lines (iPhones, iPad, Macs and iPods), which means that the level of CapEx spend from the company is concentrated around these products. When comparing this to Samsung, we would note that Samsung has a diversified product portfolio ranging from semiconductors (memory and processors), display (LCD panels), mobile communications (handsets, tablets and network infrastructure) and consumer electronics (TV and digital appliances). In fact, of the \$4.1bn of CapEx spent by Samsung in Q312, around 45% was directed towards its semiconductor business and 25% towards display panel segment.

Exhibit 8: Apple's capex spend is now much higher than a number of tech peers*Capex spend at some of the leading tech companies globally**Source: Company data, Credit Suisse estimates*

Apple remains one of the largest semiconductor purchasers globally. Apart from increasing CapEx spend, we would note that Apple has also become one of the largest purchasers of semiconductor components and has also widened the gap vs. other companies within the technology peer group. In fact, as shown in Exhibit 9, according to iSuppli estimates, Apple purchased semiconductor components worth \$24bn in 2011, which has increased from \$9bn in 2009, and it expects this to rise to \$28bn in 2012. Interestingly, the level of semiconductor purchases by Apple in 2012 will be nearly 2x higher than its nearest tech rivals, Samsung Electronics and Hewlett-Packard.

Exhibit 9: Apple's semiconductor purchases outpaces peers*Total semiconductor purchases for leading tech companies over time**Source: iSuppli (July 2012)*

Retail expansion story remains on track

As part of its CapEx spending plans, Apple has also noted that it expects to open about 30 to 35 new retail stores during 2013, of which approximately 75% will be located outside the US. As a reminder, the company added 33 retail stores in FY12, of which 25 were outside the US, as shown in Exhibit 10.

Exhibit 10: Apple continues to expand its retail presence in international markets; 140 retail stores outside the US

Breakdown of Apple's retail stores by country over time

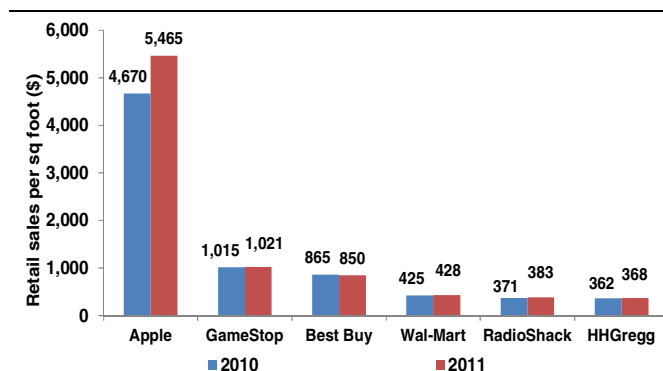
# of retail stores	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12
Americas	217	219	230	234	234	238	250	255	254	255	264	268	268	271	276
US	207	209	216	220	220	223	234	237	236	237	242	246	246	249	250
Canada	10	10	14	14	14	15	16	18	18	18	22	22	22	22	26
Europe	24	25	29	34	37	37	47	47	48	50	67	67	69	74	82
United Kingdom	20	20	22	25	27	27	29	29	29	30	33	33	33	33	33
Spain	0	0	0	0	0	0	2	2	2	2	5	5	5	10	10
Switzerland	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Germany	1	1	2	2	3	3	4	4	5	5	8	8	8	8	10
France	0	0	0	2	2	2	5	5	5	6	9	9	10	10	14
Italy	1	1	2	2	2	2	4	4	4	4	9	9	9	9	10
Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Sweden	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Japan	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Asia Pac	4	7	7	8	8	11	13	14	14	15	19	19	19	20	25
Australia	3	5	5	6	6	8	9	10	10	10	13	13	13	13	17
China (incl. HK)	1	2	2	2	2	3	4	4	4	5	6	6	6	7	8
Total	252	258	273	283	286	293	317	323	323	327	357	361	363	372	390
Int'l stores (outside US)	45	49	57	63	66	70	83	86	87	90	115	115	117	123	140
% of stores in EMs	0%	1%	1%	1%	1%	1%	1%	1%	1%	2%	2%	2%	2%	2%	2%

Source: Company data, Credit Suisse estimates

Vastly superior retail metrics for Apple versus peers. We see that Apple's stores generate retail revenue per square foot that is vastly superior to that of its peers and is growing. Apple's revenue per store per square foot is \$5.5k or 9x times that of average of some of its retail peers, as shown in Exhibit 11.

Exhibit 11: Apple generates sales per sq. foot of \$5.5K

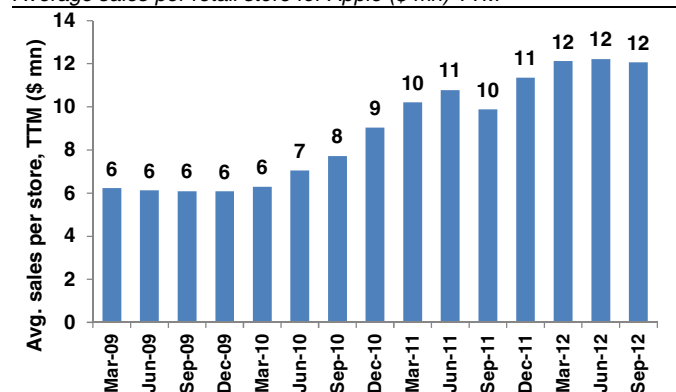
Retail sales per square foot (\$) for retail peer group



Source: Company data, Credit Suisse research

Exhibit 12: Quarterly sales per retail store continues to rise

Average sales per retail store for Apple (\$ mn) TTM



Source: Company data, Credit Suisse research

Adding international stores should continue to propel growth. This is one avenue of raising awareness of Apple's product strength which will need to be accompanied by branding/marketing campaigns. During FY11, Apple opened 40 stores globally, of which 65% were outside the NA region. In FY12, Apple opened 33 stores worldwide of which 64% were outside the NA region (76% outside the US). In the past, the company has

highlighted that its international retail stores have higher volumes compared to US stores. During FY13, the company is planning to add 30-35 new retail stores, which will take the overall count of its stores from 390 currently to around 425. Of these 30-35 new stores, 75% are expected to be outside the US.

Improving level of retail efficiency. This supports our argument that distribution is the gating factor. The reason why Apple has not realized this potential in emerging markets is primarily an issue of distribution. As Apple has moved increasingly across international markets, its revenue per store has increased as can be seen from Exhibit 12. Currently Apple has some 390 stores but only 6 of them are in EMs (all in China).

Building distribution will take time. Apple's retail distribution is without doubt effective and occurs at a rapid pace. On an average, we see that Apple has opened around 40 stores per year over the last 3 years. Second, the strategy tends to focus on expanding within one country at a time. Third, we conclude that even though there are important countries such as Brazil, Russia and India, which Apple should address with direct retail operations (similar to what it has done in China), the focus may evolve on a country by country basis.

Long term potential in China on track, other EMs to follow

Within its 10-K Apple, provided details on its China sales for FY12, which were \$22.8bn, and this marks an 83% increase yoy (\$12.5bn in FY11 – according to Apple's definition, China includes Hong Kong as well). Apple derived ~18% of its group revenues (ex-retail) from China in FY12.

Long term revenue potential of \$42bn in China – Apple has already captured ~40% of the incremental LT revenue opportunity. After generating over \$9bn of sales from China (ex-HK/Taiwan) in 2011, we estimate that it may reach \$24bn in 2012. Based on our estimate that Apple's addressable market in China will be \$29mn in 2012, it suggests that the addressable population in China will spend \$700 on Apple products. Even assuming a similar level of spend with a rising addressable market, will help Apple reach ~\$40bn of sales in China by 2015. This suggests that Apple has achieved 40% of incremental opportunity in China from 2011 to 2015 inside of one year. This is reassuring given our thesis around LT growth in China and EMs as a whole. Assuming Apple addresses the emerging markets from a distribution perspective, this could drive an incremental \$87bn in sales and \$21 of EPS by 2015. For further details please see our June 15, 2012 note titled 'Emerging Apple – On track to realize potential'.

* We note that Apple do not disclose Hong Kong, Taiwan and mainland China revenues separately however it should be noted that even if Hong Kong + Taiwan revenues are ~\$3bn, a strong CY4Q12 in China should put the company's sales in China well ahead of our estimates.

Exhibit 13: China Sales for Apple have grown steadily

in millions, unless otherwise stated

	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	FY10	FY11	FY12
Greater China	2,575	2,375	3,825	4,475	4,500	7,900	5,700	5,700	2,764	13,250	23,800
Group	26,741	24,667	28,571	28,270	46,333	39,186	35,023	35,966	65,225	108,249	156,508
<i>as % of group</i>	<i>9.6%</i>	<i>9.6%</i>	<i>13.4%</i>	<i>15.8%</i>	<i>9.7%</i>	<i>20.2%</i>	<i>16.3%</i>	<i>15.8%</i>	<i>4.2%</i>	<i>11.5%</i>	<i>14.6%</i>

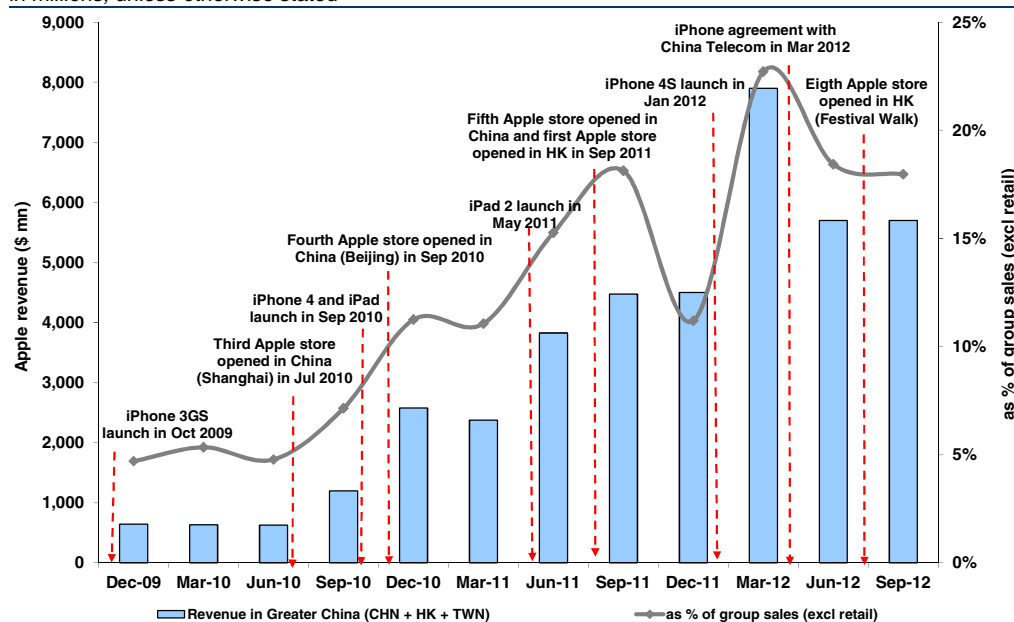
Source: Company data, Credit Suisse estimates

What has been driving success in China? This success is being driven by expanding distribution for iPhone (and rising carrier subsidies) along with addition of more retail stores, with a total of 8 now, up from 6 a year ago. Until now, handset subsidy strategies in China had been mixed. Since the start of this year we now see a trend for the iPhone, whereby both China Telecom and China Unicom offer a substantial subsidy to consumers for the device.

Significant upside ahead – China Mobile, retail expansion. China Mobile has ambitious plans to move towards TD-LTE (4G). The company plans to construct over 20,000 LTE base stations for scale trials in 9 cities during 2012 with a target of over 200,000 base stations in 2013. With nearly 700mn wireless subs on its network, LTE rollout could open up a significant opportunity for Apple in early 2013. The iPhone 5 SKUs uses a Qualcomm 9x15 baseband chip which would be technologically capable to support the China Mobile network, adding further weight to the idea that Apple is looking to launch the iPhone 5 with China Mobile. Finally, Apple's retail strategy outside of developed markets has focused entirely on opening retail locations in China. The company has highlighted that its stores in China have had the greatest amount of foot-traffic in the world and given the fact that Apple expands its retail operations in only one country at a time, we would expect its retail footprint to grow at a rapid pace in China going forward.

Exhibit 14: Greater China is ~18% of Apple's revenues (ex-retail)

in millions, unless otherwise stated



Source: Company data, Credit Suisse estimates

Financial Models

Exhibit 15: Apple: Annual income statement, year ending September
in US\$ millions, unless otherwise stated

	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013E	FY 2014E
Total revenue	42,905	65,225	108,249	156,508	205,315	250,478
Cost of goods sold	25,683	39,541	64,431	87,846	120,329	145,348
Gross profit	17,222	25,684	43,818	68,662	84,986	105,130
Gross margin (%)	40.1%	39.4%	40.5%	43.9%	41.4%	42.0%
Research & Development	1,333	1,782	2,429	3,381	3,798	4,759
% of sales	3.1%	2.7%	2.2%	2.2%	1.9%	1.9%
Selling, General & Administrative	4,149	5,517	7,599	10,040	11,908	14,277
% of sales	9.7%	8.5%	7.0%	6.4%	5.8%	5.7%
Total operating expenses	5,482	7,299	10,028	13,421	15,707	19,036
% of sales	12.8%	11.2%	9.3%	8.6%	7.7%	7.6%
Operating income	11,740	18,385	33,790	55,241	69,279	86,093
Operating margin (%)	27.4%	28.2%	31.2%	35.3%	33.7%	34.4%
One-times gains	0	0	0	0	0	0
Other income and expense	326	155	415	522	830	750
Pretax income	12,066	18,540	34,205	55,763	70,109	86,843
Pretax margin (%)	28.1%	28.4%	31.6%	35.6%	34.1%	34.7%
Income tax expense	3,831	4,527	8,283	14,030	17,712	21,711
Effective tax rate (%)	31.8%	24.4%	24.2%	25.2%	25.3%	25.0%
P/F Net income	8,235	14,013	25,922	41,733	52,397	65,133
P/F Net margin	19.2%	21.5%	23.9%	26.7%	25.5%	26.0%
After-tax stock options expense	484	634	885	1,303	1,300	1,300
P/F net income (excl. options expense)	8,719	14,647	26,807	43,036	53,697	66,433
	8,235	14,013	25,922	41,733	52,397	65,133
Reported GAAP EPS	\$9.08	\$15.15	\$27.68	\$44.16	\$55.26	\$68.69
EPS (excl. options expense)	\$9.08	\$15.15	\$27.68	\$44.16	\$55.26	\$68.69
Diluted shares outstanding	907	925	937	945	948	948

Source: Company data, Credit Suisse estimates

Exhibit 16: Apple: Product details on a quarterly basis
in US\$ millions, unless otherwise stated

	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13
	F1Q12	F2Q12	F3Q12	F4Q12	F1Q13E	F2Q13E	F3Q13E	F4Q13E
iPhone								
Apple iPhone units (mn)	37.0	35.1	26.0	26.9	49.8	47.3	41.1	39.3
ASPs (\$)	638.7	626.0	598.8	611.5	617.1	588.2	586.1	569.3
iPhone H/W revenue (\$ mn)	23,658	21,950	15,586	16,456	30,719	27,820	24,115	22,396
Other revenue (\$ mn)	759	740	659	669	1,652	1,665	1,572	1,576
Total iPhone revenue (\$ mn)	24,417	22,690	16,245	17,125	32,371	29,484	25,688	23,972
Gross profit (\$ mn)	12,776	12,338	8,000	7,810	14,030	14,144	12,548	10,939
Gross margin (%)	52.3%	54.4%	49.2%	45.6%	43.3%	48.0%	48.8%	45.6%
iPad	F1Q12	F2Q12	F3Q12	F4Q12	F1Q13E	F2Q13E	F3Q13E	F4Q13E
Apple iPad units (mn)	15.4	11.8	17.0	14.0	23.9	19.9	25.8	23.3
ASPs (\$)	579.2	537.6	517.4	500.0	482.6	458.6	509.4	502.5
iPad H/W revenue (\$ mn)	8,939	6,342	8,818	7,018	11,516	9,119	13,169	11,690
Other revenue (\$ mn)	214	248	353	492	573	545	678	666
Total iPad revenue (\$ mn)	9,153	6,590	9,171	7,510	12,089	9,664	13,847	12,357
Gross profit (\$mn)	3,842	2,907	3,730	3,076	4,569	3,842	5,532	4,986
Gross margin (%)	42.0%	44.1%	40.7%	41.0%	37.8%	39.8%	40.0%	40.4%
iPod	F1Q12	F2Q12	F3Q12	F4Q12	F1Q13E	F2Q13E	F3Q13E	F4Q13E
Apple iPod units (mn)	15.4	7.7	6.8	5.3	11.0	5.5	4.8	7.6
ASPs (\$)	162.8	154.2	153.5	149.2	169.0	165.6	165.6	170.4
iPod H/W revenue (\$ mn)	2,507	1,183	1,036	797	1,851	907	798	1,292
Other revenue (\$ mn)	21	24	24	23	54	28	25	42
Total iPod revenue (\$ mn)	2,528	1,207	1,060	820	1,906	935	823	1,334
Gross profit (\$ mn)	644	323	286	208	494	245	216	350
Gross margin (%)	24.9%	25.3%	25.4%	23.4%	23.9%	24.1%	24.1%	24.0%
Mac	F1Q12	F2Q12	F3Q12	F4Q12	F1Q13E	F2Q13E	F3Q13E	F4Q13E
Desktop	1,479	1,199	1,010	968	1,257	1,222	1,029	1,055
Portable	3,719	2,818	3,010	3,955	4,091	3,058	3,311	4,393
Total units ('000)	5,198	4,017	4,020	4,923	5,348	4,279	4,340	5,448
Desktop	1,309	1,304	1,274	1,295	1,270	1,251	1,232	1,504
Portable	1,254	1,246	1,211	1,356	1,370	1,370	1,370	1,127
Blended ASP (\$)	1,269	1,263	1,227	1,344	1,346	1,336	1,337	1,200
Desktop	1,936	1,563	1,287	1,254	1,596	1,528	1,268	1,587
Portable	4,662	3,510	3,646	5,363	5,603	4,187	4,535	4,952
Total revenue (\$ mn)	6,598	5,073	4,933	6,617	7,199	5,715	5,802	6,539
Gross profit (\$ mn)	1,673	1,297	1,192	1,540	1,760	1,322	1,362	1,644
Gross margin (%)	25.4%	25.6%	24.2%	23.3%	24.4%	23.1%	23.5%	25.1%

Source: Company data, Credit Suisse estimates

Companies Mentioned (Price as of 01 Nov 12)

Amazon.com, Inc. (AMZN, \$232.12, OUTPERFORM, TP \$301.00)
 Apple, Inc. (AAPL, \$596.80, OUTPERFORM, TP \$750.00)
 Best Buy, Inc. (BBY, \$15.05, RESTRICTED)
 Canon Electronics (7739, ¥1,729)
 China Mobile Ltd. (0941.HK, HK\$87.30, OUTPERFORM, TP HK\$102.00)
 China Telecom (0728.HK, HK\$4.59, NEUTRAL, TP HK\$4.60)
 China Unicom Hong Kong Ltd. (0762.HK, HK\$12.74, OUTPERFORM, TP HK\$17.85)
 Cisco Systems, Inc. (CSCO, \$17.53, OUTPERFORM, TP \$25.00)
 Dell, Inc. (DELL, \$9.33, UNDERPERFORM, TP \$11.00)
 GameStop Corp. (GME, \$23.60, OUTPERFORM, TP \$28.00)
 Google, Inc. (GOOG, \$688.21, OUTPERFORM, TP \$847.00)
 Hewlett-Packard (HPQ, \$14.00, NEUTRAL, TP \$15.00)
 hhgregg, Inc. (HGG, \$6.39, NEUTRAL [V], TP \$7.50)
 Intel Corp. (INTC, \$22.29, OUTPERFORM, TP \$32.00)
 QUALCOMM, Inc. (QCOM, \$59.75, OUTPERFORM, TP \$75.00)
 RadioShack (RSH, \$2.25, UNDERPERFORM [V], TP \$2.00)
 Samsung Electronics (005930.KS, ₩1,297,000, OUTPERFORM, TP ₩1,700,000)
 Sony (6758, ¥915, NEUTRAL [V], TP ¥900, MARKET WEIGHT)
 Toshiba (6502, ¥294, NEUTRAL, TP ¥290, MARKET WEIGHT)
 Wal-Mart Stores, Inc. (WMT, \$73.45, NEUTRAL, TP \$80.00)

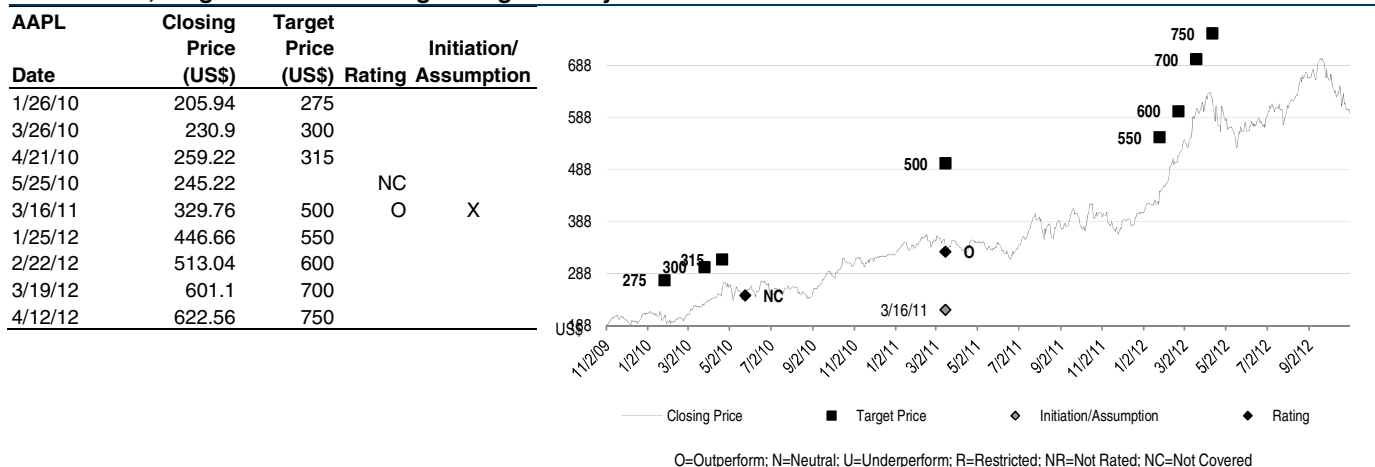
Disclosure Appendix

Important Global Disclosures

I, Kulbinder Garcha, certify that (1) the views expressed in this report accurately reflect my personal views about all of the subject companies and securities and (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.

See the Companies Mentioned section for full company names.

3-Year Price, Target Price and Rating Change History Chart for AAPL



The analyst(s) responsible for preparing this research report received compensation that is based upon various factors including Credit Suisse's total revenues, a portion of which are generated by Credit Suisse's investment banking activities.

As of October, 2 2012 Analysts' stock rating are defined as follows:

Outperform (O): The stock's total return is expected to outperform the relevant benchmark* by at least 10-15% or more, (depending on perceived risk) over the next 12 months.

Neutral (N): The stock's total return is expected to be in line with the relevant benchmark* (range of $\pm 10-15\%$) over the next 12 months.

Underperform (U): The stock's total return is expected to underperform the relevant benchmark* by 10-15% or more over the next 12 months.

**Relevant benchmark by region: As of 2nd October 2012, U.S. and Canadian as well as European ratings are based on a stock's total return relative to the analyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperforms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. For Latin American, Japanese, and non-Japan Asia stocks, ratings are based on a stock's total return relative to the average total return of the relevant country or regional benchmark; Australia, New Zealand are, and prior to 2nd October 2012 U.S. and Canadian ratings were based on (1) a stock's absolute total return potential to its current share price and (2) the relative attractiveness of a stock's total return potential within an analyst's coverage universe. For Australian and New Zealand stocks, 12-month rolling yield is incorporated in the absolute total return calculation and a 15% and a 7.5% threshold replace the 10-15% level in the Outperform and Underperform stock rating definitions, respectively. The 15% and 7.5% thresholds replace the +10-15% and -10-15% levels in the Neutral stock rating definition, respectively.*

Restricted (R): In certain circumstances, Credit Suisse policy and/or applicable law and regulations preclude certain types of communications, including an investment recommendation, during the course of Credit Suisse's engagement in an investment banking transaction and in certain other circumstances.

Volatility Indicator [V]: A stock is defined as volatile if the stock price has moved up or down by 20% or more in a month in at least 8 of the past 24 months or the analyst expects significant volatility going forward.

Analysts' sector weightings are distinct from analysts' stock ratings and are based on the analyst's expectations for the fundamentals and/or valuation of the sector* relative to the group's historic fundamentals and/or valuation:

Overweight: The analyst's expectation for the sector's fundamentals and/or valuation is favorable over the next 12 months.

Market Weight: The analyst's expectation for the sector's fundamentals and/or valuation is neutral over the next 12 months.

Underweight: The analyst's expectation for the sector's fundamentals and/or valuation is cautious over the next 12 months.

*An analyst's coverage sector consists of all companies covered by the analyst within the relevant sector. An analyst may cover multiple sectors.

Credit Suisse's distribution of stock ratings (and banking clients) is:

Global Ratings Distribution		
Outperform/Buy*	43%	(53% banking clients)
Neutral/Hold*	40%	(48% banking clients)
Underperform/Sell*	15%	(40% banking clients)
Restricted	3%	

**For purposes of the NYSE and NASD ratings distribution disclosure requirements, our stock ratings of Outperform, Neutral, and Underperform most closely correspond to Buy, Hold, and Sell, respectively; however, the meanings are not the same, as our stock ratings are determined on a relative basis. (Please refer to definitions above.) An investor's decision to buy or sell a security should be based on investment objectives, current holdings, and other individual factors.*

Credit Suisse's policy is to update research reports as it deems appropriate, based on developments with the subject company, the sector or the market that may have a material impact on the research views or opinions stated herein.

Credit Suisse's policy is only to publish investment research that is impartial, independent, clear, fair and not misleading. For more detail please refer to Credit Suisse's Policies for Managing Conflicts of Interest in connection with Investment Research: http://www.csfb.com/research-and-analytics/disclaimer/managing_conflicts_disclaimer.html

Credit Suisse does not provide any tax advice. Any statement herein regarding any US federal tax is not intended or written to be used, and cannot be used, by any taxpayer for the purposes of avoiding any penalties.

See the Companies Mentioned section for full company names.

Price Target: (12 months) for (AAPL)

Method: Our target price for Apple is \$750. We calculate this by applying a 12x multiple to our CY2013 taxed operating EPS per share and add back onshore cash per share. Our multiple is slightly discounted to the market, in-line with the stock's historical performance.

Risks: Risks to achievement of our \$750 target price for Apple Inc. include competitive pressures from global consumer electronics companies, failure to launch innovative products, loss of key executive managers, failure to maintain key media distribution for iTunes, and regulatory risk

Please refer to the firm's disclosure website at www.credit-suisse.com/researchdisclosures for the definitions of abbreviations typically used in the target price method and risk sections.

See the Companies Mentioned section for full company names.

The subject company (AAPL) currently is, or was during the 12-month period preceding the date of distribution of this report, a client of Credit Suisse.

Credit Suisse provided non-investment banking services, which may include Sales and Trading services, to the subject company (AAPL) within the past 12 months.

Credit Suisse expects to receive or intends to seek investment banking related compensation from the subject company (AAPL) within the next 3 months.

Credit Suisse has received compensation for products and services other than investment banking services from the subject company (AAPL) within the past 12 months.

As of the date of this report, Credit Suisse Securities (USA) LLC makes a market in the securities of the subject company (AAPL).

Important Regional Disclosures

Singapore recipients should contact a Singapore financial adviser for any matters arising from this research report.

An analyst involved in the preparation of this report has visited certain material operations of the subject company (AAPL) within the past 12 months. The analyst may not have visited all material operations of the subject company. The travel expenses of the analyst in connection with such visits were not paid or reimbursed by the subject company, other than de minimus local travel expenses.

Restrictions on certain Canadian securities are indicated by the following abbreviations: NVS--Non-Voting shares; RVS--Restricted Voting Shares; SVS--Subordinate Voting Shares.

Individuals receiving this report from a Canadian investment dealer that is not affiliated with Credit Suisse should be advised that this report may not contain regulatory disclosures the non-affiliated Canadian investment dealer would be required to make if this were its own report.

For Credit Suisse Securities (Canada), Inc.'s policies and procedures regarding the dissemination of equity research, please visit http://www.csfb.com/legal_terms/canada_research_policy.shtml.

Credit Suisse Securities (Europe) Limited acts as broker to BBY.

The following disclosed European company/ies have estimates that comply with IFRS: BBY.

As of the date of this report, Credit Suisse acts as a market maker or liquidity provider in the equities securities that are the subject of this report.

Principal is not guaranteed in the case of equities because equity prices are variable.

Commission is the commission rate or the amount agreed with a customer when setting up an account or at anytime after that.

CS may have issued a Trade Alert regarding this security. Trade Alerts are short term trading opportunities identified by an analyst on the basis of market events and catalysts, while stock ratings reflect an analyst's investment recommendations based on expected total return over a 12-month period relative to the relevant coverage universe. Because Trade Alerts and stock ratings reflect different assumptions and analytical methods, Trade Alerts may differ directionally from the analyst's stock rating.

The author(s) of this report maintains a CS Model Portfolio that he/she regularly adjusts. The security or securities discussed in this report may be a component of the CS Model Portfolio and subject to such adjustments (which, given the composition of the CS Model Portfolio as a whole, may differ from the recommendation in this report, as well as opportunities or strategies identified in Trading Alerts concerning the same security). The CS Model Portfolio and important disclosures about it are available at www.credit-suisse.com/ti.

Taiwanese Disclosures: This research report is for reference only. Investors should carefully consider their own investment risk. Investment results are the responsibility of the individual investor. Reports may not be reprinted without permission of CS. Reports written by Taiwan-based analysts on non-Taiwan listed companies are not considered recommendations to buy or sell securities under Taiwan Stock Exchange Operational Regulations Governing Securities Firms Recommending Trades in Securities to Customers.

To the extent this is a report authored in whole or in part by a non-U.S. analyst and is made available in the U.S., the following are important disclosures regarding any non-U.S. analyst contributors:

The non-U.S. research analysts listed below (if any) are not registered/qualified as research analysts with FINRA. The non-U.S. research analysts listed below may not be associated persons of CSSU and therefore may not be subject to the NASD Rule 2711 and NYSE Rule 472 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

- Achal Sultania, non-U.S. analyst, is a research analyst employed by Credit Suisse Securities (Europe) Limited.

Important Credit Suisse HOLT Disclosures

With respect to the analysis in this report based on the Credit Suisse HOLT methodology, Credit Suisse certifies that (1) the views expressed in this report accurately reflect the Credit Suisse HOLT methodology and (2) no part of the Firm's compensation was, is, or will be directly related to the specific views disclosed in this report.

The Credit Suisse HOLT methodology does not assign ratings to a security. It is an analytical tool that involves use of a set of proprietary quantitative algorithms and warranted value calculations, collectively called the Credit Suisse HOLT valuation model, that are consistently applied to all the companies included in its database. Third-party data (including consensus earnings estimates) are systematically translated into a number of default variables and incorporated into the algorithms available in the Credit Suisse HOLT valuation model. The source financial statement, pricing, and earnings data provided by outside data vendors are subject to quality control and may also be adjusted to more closely measure the underlying economics of firm performance. These adjustments provide consistency when analyzing a single company across time, or analyzing multiple companies across industries or national borders. The default scenario that is produced by the Credit Suisse HOLT valuation model establishes the baseline valuation for a security, and a user then may adjust the default variables to produce alternative scenarios, any of which could occur. Additional information about the Credit Suisse HOLT methodology is available on request.

The Credit Suisse HOLT methodology does not assign a price target to a security. The default scenario that is produced by the Credit Suisse HOLT valuation model establishes a warranted price for a security, and as the third-party data are updated, the warranted price may also change. The default variables may also be adjusted to produce alternative warranted prices, any of which could occur.

CFROI®, HOLT, HOLTfolio, HOLTSelect, ValueSearch, AggreGator, Signal Flag and "Powered by HOLT" are trademarks or service marks or registered trademarks or registered service marks of Credit Suisse or its affiliates in the United States and other countries. HOLT is a corporate performance and valuation advisory service of Credit Suisse.

Additional information about the Credit Suisse HOLT methodology is available on request.

For Credit Suisse disclosure information on other companies mentioned in this report, please visit the website at www.credit-suisse.com/researchdisclosures or call +1 (877) 291-2683.

Disclaimers continue on next page.

References in this report to Credit Suisse include all of the subsidiaries and affiliates of Credit Suisse operating under its investment banking division. For more information on our structure, please use the following link: https://www.credit-suisse.com/who_we_are/en/. This report may contain material that is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would subject Credit Suisse AG or its affiliates ("CS") to any registration or licensing requirement within such jurisdiction. All material presented in this report, unless specifically indicated otherwise, is under copyright to CS. None of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party, without the prior express written permission of CS. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of CS or its affiliates. The information, tools and material presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or the solicitation of an offer to sell or to buy or subscribe for securities or other financial instruments. CS may not have taken any steps to ensure that the securities referred to in this report are suitable for any particular investor. CS will not treat recipients of this report as its customers by virtue of their receiving this report. The investments and services contained or referred to in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about such investments or investment services. Nothing in this report constitutes investment, legal, accounting or tax advice, or a representation that any investment or strategy is suitable or appropriate to your individual circumstances, or otherwise constitutes a personal recommendation to you. CS does not advise on the tax consequences of investments and you are advised to contact an independent tax adviser. Please note in particular that the bases and levels of taxation may change. Information and opinions presented in this report have been obtained or derived from sources believed by CS to be reliable, but CS makes no representation as to their accuracy or completeness. CS accepts no liability for loss arising from the use of the material presented in this report, except that this exclusion of liability does not apply to the extent that such liability arises under specific statutes or regulations applicable to CS. This report is not to be relied upon in substitution for the exercise of independent judgment. CS may have issued, and may in the future issue, other communications that are inconsistent with, and reach different conclusions from, the information presented in this report. Those communications reflect the different assumptions, views and analytical methods of the analysts who prepared them and CS is under no obligation to ensure that such other communications are brought to the attention of any recipient of this report. CS may, to the extent permitted by law, participate or invest in financing transactions with the issuer(s) of the securities referred to in this report, perform services for or solicit business from such issuers, and/or have a position or holding, or other material interest, or effect transactions, in such securities or options thereon, or other investments related thereto. In addition, it may make markets in the securities mentioned in the material presented in this report. CS may have, within the last three years, served as manager or co-manager of a public offering of securities for, or currently may make a primary market in issues of, any or all of the entities mentioned in this report or may be providing, or have provided within the previous 12 months, significant advice or investment services in relation to the investment concerned or a related investment. Additional information is, subject to duties of confidentiality, available on request. Some investments referred to in this report will be offered solely by a single entity and in the case of some investments solely by CS, or an associate of CS or CS may be the only market maker in such investments. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information, opinions and estimates contained in this report reflect a judgment at its original date of publication by CS and are subject to change without notice. The price, value of and income from any of the securities or financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments is subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities or financial instruments. Investors in securities such as ADR's, the values of which are influenced by currency volatility, effectively assume this risk. Structured securities are complex instruments, typically involve a high degree of risk and are intended for sale only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affected by changes in economic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility, and the credit quality of any issuer or reference issuer. Any investor interested in purchasing a structured product should conduct their own investigation and analysis of the product and consult with their own professional advisers as to the risks involved in making such a purchase. Some investments discussed in this report may have a high level of volatility. High volatility investments may experience sudden and large falls in their value causing losses when that investment is realised. Those losses may equal your original investment. Indeed, in the case of some investments the potential losses may exceed the amount of initial investment and, in such circumstances, you may be required to pay more money to support those losses. Income yields from investments may fluctuate and, in consequence, initial capital paid to make the investment may be used as part of that income yield. Some investments may not be readily realisable and it may be difficult to sell or realise those investments, similarly it may prove difficult for you to obtain reliable information about the value, or risks, to which such an investment is exposed. This report may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the report refers to website material of CS, CS has not reviewed any such site and takes no responsibility for the content contained therein. Such address or hyperlink (including addresses or hyperlinks to CS's own website material) is provided solely for your convenience and information and the content of any such website does not in any way form part of this document. Accessing such website or following such link through this report or CS's website shall be at your own risk. This report is issued and distributed in Europe (except Switzerland) by Credit Suisse Securities (Europe) Limited, One Cabot Square, London E14 4QJ, England, which is regulated in the United Kingdom by The Financial Services Authority ("FSA"). This report is being distributed in Germany by Credit Suisse Securities (Europe) Limited Niederlassung Frankfurt am Main regulated by the Bundesanstalt fuer Finanzdienstleistungsaufsicht ("BaFin"). This report is being distributed in the United States and Canada by Credit Suisse Securities (USA) LLC; in Switzerland by Credit Suisse AG; in Brazil by Banco de Investimentos Credit Suisse (Brasil) S.A or its affiliates; in Mexico by Banco Credit Suisse (México), S.A. (transactions related to the securities mentioned in this report will only be effected in compliance with applicable regulation); in Japan by Credit Suisse Securities (Japan) Limited, Financial Instruments Firm, Director-General of Kanto Local Finance Bureau (*Kinsho*) No. 66, a member of Japan Securities Dealers Association, The Financial Futures Association of Japan, Japan Investment Advisers Association, Type II Financial Instruments Firms Association; elsewhere in Asia/ Pacific by whichever of the following is the appropriately authorised entity in the relevant jurisdiction: Credit Suisse (Hong Kong) Limited, Credit Suisse Equities (Australia) Limited, Credit Suisse Securities (Thailand) Limited, Credit Suisse Securities (Malaysia) Sdn Bhd, Credit Suisse AG, Singapore Branch, Credit Suisse Securities (India) Private Limited regulated by the Securities and Exchange Board of India (registration Nos. INB230970637; INF230970637; INB010970631; INF010970631), having registered address at 9th Floor, Ceejay House, Dr.A.B. Road, Worli, Mumbai - 18, India, T- +91-22 6777 3777, Credit Suisse Securities (Europe) Limited, Seoul Branch, Credit Suisse AG, Taipei Securities Branch, PT Credit Suisse Securities Indonesia, Credit Suisse Securities (Philippines) Inc., and elsewhere in the world by the relevant authorised affiliate of the above. Research on Taiwanese securities produced by Credit Suisse AG, Taipei Securities Branch has been prepared by a registered Senior Business Person. Research provided to residents of Malaysia is authorised by the Head of Research for Credit Suisse Securities (Malaysia) Sdn Bhd, to whom they should direct any queries on +603 2723 2020. This research may not conform to Canadian disclosure requirements. In jurisdictions where CS is not already registered or licensed to trade in securities, transactions will only be effected in accordance with applicable securities legislation, which will vary from jurisdiction to jurisdiction and may require that the trade be made in accordance with applicable exemptions from registration or licensing requirements. Non-U.S. customers wishing to effect a transaction should contact a CS entity in their local jurisdiction unless governing law permits otherwise. U.S. customers wishing to effect a transaction should do so only by contacting a representative at Credit Suisse Securities (USA) LLC in the U.S. Please note that this research was originally prepared and issued by CS for distribution to their market professional and institutional investor customers. Recipients who are not market professional or institutional investor customers of CS should seek the advice of their independent financial advisor prior to taking any investment decision based on this report or for any necessary explanation of its contents. This research may relate to investments or services of a person outside of the UK or to other matters which are not regulated by the FSA or in respect of which the protections of the FSA for private customers and/or the UK compensation scheme may not be available, and further details as to where this may be the case are available upon request in respect of this report. CS may provide various services to US municipal entities or obligated persons ("municipalities"), including suggesting individual transactions or trades and entering into such transactions. Any services CS provides to municipalities are not viewed as "advice" within the meaning of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. CS is providing any such services and related information solely on an arm's length basis and not as an advisor or fiduciary to the municipality. In connection with the provision of the any such services, there is no agreement, direct or indirect, between any municipality (including the officials, management, employees or agents thereof) and CS for CS to provide advice to the municipality. Municipalities should consult with their financial, accounting and legal advisors regarding any such services provided by CS. In addition, CS is not acting for direct or indirect compensation to solicit the municipality on behalf of an unaffiliated broker, dealer, municipal securities dealer, municipal advisor, or investment adviser for the purpose of obtaining or retaining an engagement by the municipality for or in connection with Municipal Financial Products, the issuance of municipal securities, or of an investment adviser to provide investment advisory services to or on behalf of the municipality. If this report is being distributed by a financial institution other than Credit Suisse AG, or its affiliates, that financial institution is solely responsible for distribution. Clients of that institution should contact that institution to effect a transaction in the securities mentioned in this report or require further information. This report does not constitute investment advice by Credit Suisse to the clients of the distributing financial institution, and neither Credit Suisse AG, its affiliates, and their respective officers, directors and employees accept any liability whatsoever for any direct or consequential loss arising from their use of this report or its content. Principal is not guaranteed. Commission is the commission rate or the amount agreed with a customer when setting up an account or at any time after that.

Copyright © 2012 CREDIT SUISSE AG and/or its affiliates. All rights reserved.

Investment principal on bonds can be eroded depending on sale price or market price. In addition, there are bonds on which investment principal can be eroded due to changes in redemption amounts. Care is required when investing in such instruments.

When you purchase non-listed Japanese fixed income securities (Japanese government bonds, Japanese municipal bonds, Japanese government guaranteed bonds, Japanese corporate bonds) from CS as a seller, you will be requested to pay the purchase price only.