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Asia Technology Strategy 2017: A seventh year of outperformance?

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Technology

Technology

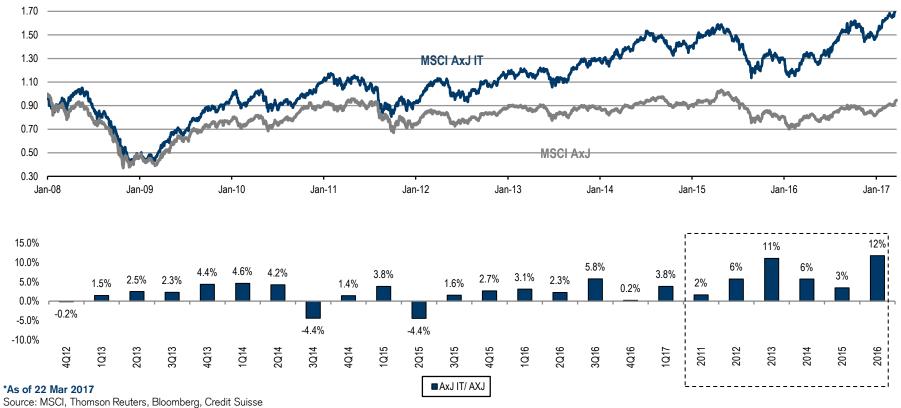
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| SMIC 981 HK SPIL 2325 TT TSMC 2330 TT | Collection 5371 TI E Ink 8069 TT Egis Technology 6462 TT Elan 2458 TT | Lenovo Group 992 HK PChome 8044 TT Pegatron 4938 TT | BeijingShiji 002153 CH BYDE 285 HK Chinasoft 354 HK | NIIT Tech NITEC IN Tata Consultancy TCS IN Tech Mahindra TECHM IN | Alibaba BABA US Autohome ATHM US Baidu BIDU US |
| UMC 2303 TT Vanguard 5347 TT WPG 3702 TT | Exercise the second sec | Quanta 2382 TT Synnex 2347 TT Wistron 3231 TT | Coolpad 2369 HK Dahua 002236 CH DC Holdings 861 HK | Wipro WPRO IN | Baozun BZUN US Bitauto BITA US CDEL DL US |
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| Delta 2308 TT FTC 2354 TT HTC 2498 TT | | DNF 092070.KQ LG Display 034220 KS LG Electronics 066570 KS | Sumy Opical 2362 HK Tongda 698 HK Tongfu 002156 CH Truly 732 HK | Internet / New Media Com2uS 078340.KQ CJ E&M 130960 KS | TAL XRS US Tarena TEDU US Tencent 700 HK |
| Kinsus3189 TTLargan3008 TTLite-on Tech2301 TT | | LG Innotek 011070 KS SDI 006400 KS SEC 005930 KS | TSHT 002185 CH Wangsu 300017 CH YGSoft 002063 CH | CJ CGV 079160 KS Gamevil 063080 KQ Kakao 035420 KD | Tuniu TOUR US Vipshop VIPS US Weibo WB US |
| Merry 2439 TT NYPCB 8046 TT Topoint 8021 TT Tripod 3044 TT | | SEMCO 009150 KS SK Hynix 000660 KS SK Materials 036490 KS | Yonyou 600588 CH ZTE 000063 CH/763 HK | Loen Ent 016170 KQ Naver 035420 KS NC Soft 036570 KS | YY YY US Zhaopin ZPIN US |
| Thpod 3044 T1 TXC 3042 TT Unimicron 3037 TT | | SSC 046890 KS Soulbrain 036830 KQ Wonik 104830 KQ | | | |

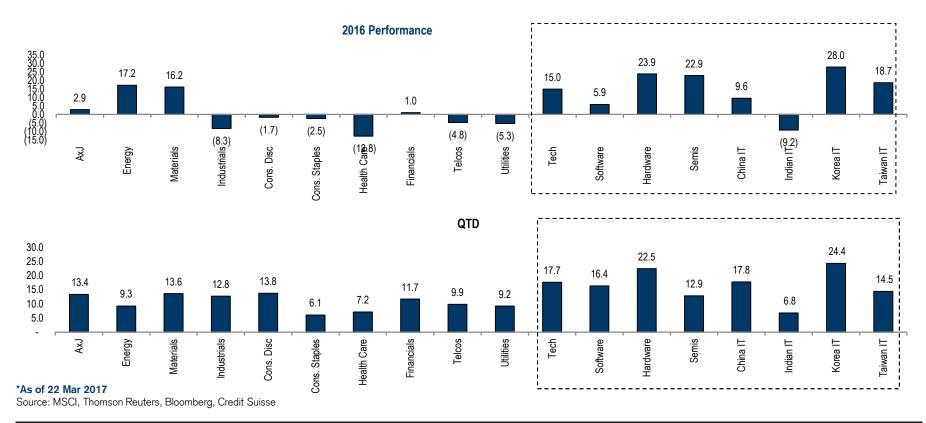


MSCI AxJ tech: A consistent outperformer



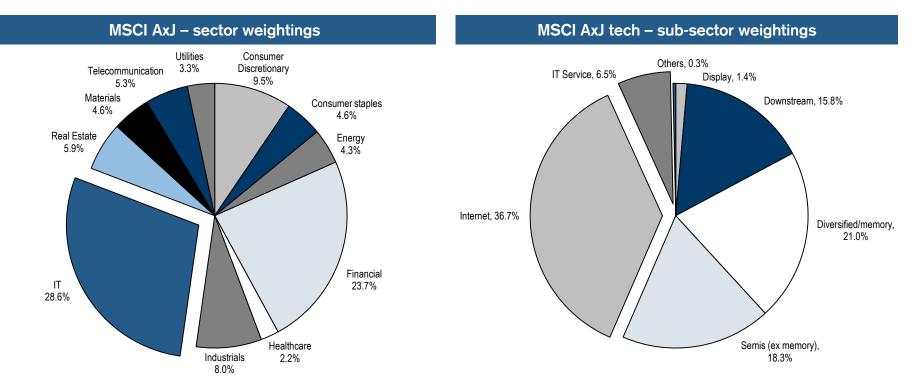
CREDIT SUISSE

MSCI AxJ tech: A broad-based rally so far in 2017



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Today's "tech" is different



Source: MSCI, Thomson Reuters, Credit Suisse

MSCI AxJ: Tech is amongst the fastest forecast EPS growers

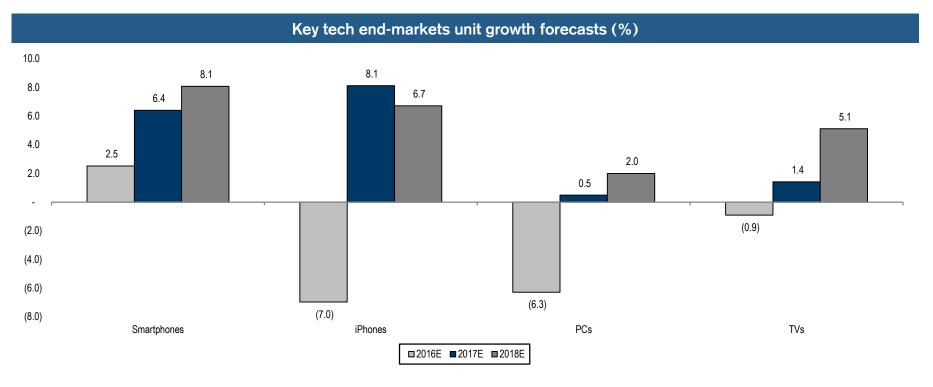
| Sector | EPS Growth | | | P | P/E | | 1M and 3M chg in 12M | | |
|--------------|------------|------|------|------|------|----------|----------------------|-------------|--|
| | 2017 | 2018 | 2019 | 2017 | 2018 | trailing | fwd EPS(%) | fwd EPS (%) | |
| Region (AxJ) | 15.7 | 10.2 | 10.4 | 13.3 | 12.1 | 1.59 | 0.5 | 2.3 | |
| Energy | 42.9 | 14.0 | 15.3 | 12.4 | 10.9 | 1.18 | 0.3 | 3.6 | |
| Materials | 17.4 | 7.8 | 7.6 | 13.4 | 12.4 | 1.30 | 1.9 | 6.3 | |
| Industrials | 17.4 | 9.6 | 10.4 | 14.1 | 12.9 | 1.26 | 0.1 | -1.1 | |
| Cons. Disc. | 19.2 | 14.2 | 13.5 | 14.7 | 12.9 | 1.84 | -0.5 | -2.8 | |
| Cons. Staple | 7.4 | 10.9 | 10.8 | 20.8 | 18.7 | 3.19 | -0.4 | -1.7 | |
| Health Care | 21.7 | 20.6 | 19.6 | 24.0 | 19.9 | 4.12 | -0.8 | -1.6 | |
| Financials | 6.9 | 8.7 | 8.4 | 10.3 | 9.4 | 1.22 | 0.2 | 0.5 | |
| Tech | 29.2 | 11.1 | 12.6 | 14.8 | 13.3 | 2.66 | 1.5 | 10.2 | |
| Telecom | 6.5 | 8.8 | 8.7 | 16.8 | 15.5 | 1.98 | -0.6 | -2.8 | |
| Utilities | -0.8 | 6.0 | 4.8 | 11.9 | 11.2 | 1.34 | -1.0 | -5.0 | |





End markets: Still slow, but better than in 2016

End markets: Still slow, but better



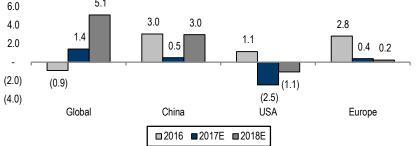
Source: IDC, IHS, Credit Suisse

TVs: Largely a flattish market

Global TV unit shipment (mn) 300 15% 239 233 235 227 226 224 227 250 207 211 10% 200 5%5% 150 2% 0% 100 -5% 50 0 -10% 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017E 2018E Total Shipment (mn) - YoY growth 4Q16 YoY unit change v. last three quarters 20% 11% 10% 11% 1% 1% 2% 1% 0% **6**% 0% -4% -4%1% 1% 4%2% -10% -20% -24% -30% CEMA China Grand North Western Eastern Latin Japan Rest of Total America Asia America Europe Europe Pacific Last 3 quarters average 4Q16 YoY % TV unit change

Source: IHS, Credit Suisse

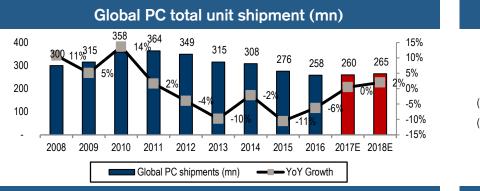
TV total shipment YoY Growth (%)



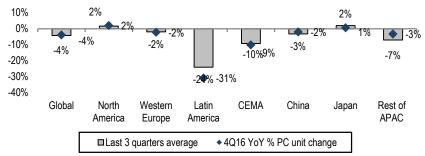
TV Global ASP (USD)



PCs: Stabilising starting 2H16

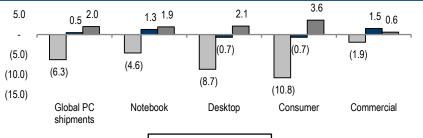


4Q16 YoY unit change v. last three quarters



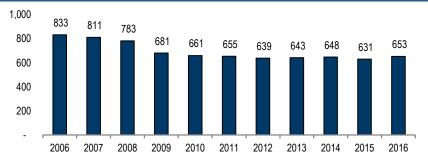
Source: IDC, Credit Suisse

PC Total shipment YoY Growth (%)

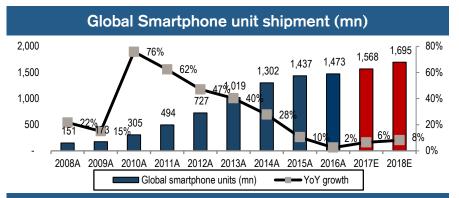


■2016 ■2017E ■2018E

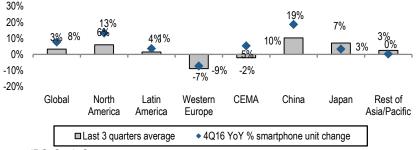




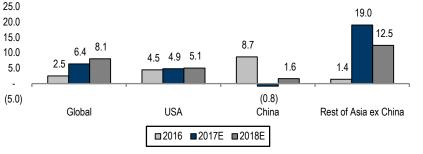
Smartphones: EM and iPhone a plus; China uncertain



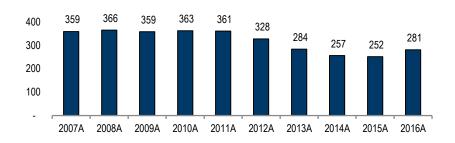
4Q16 YoY unit change v. last three quarters



Smartphone total shipment YoY Growth (%)
19.0

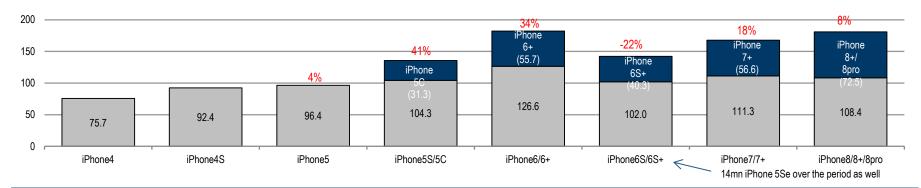


Global PC ASP (USD)

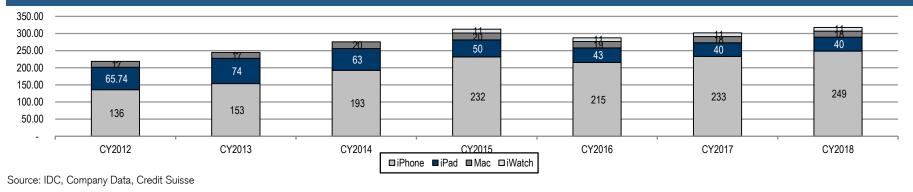


Source: IDC, Credit Suisse

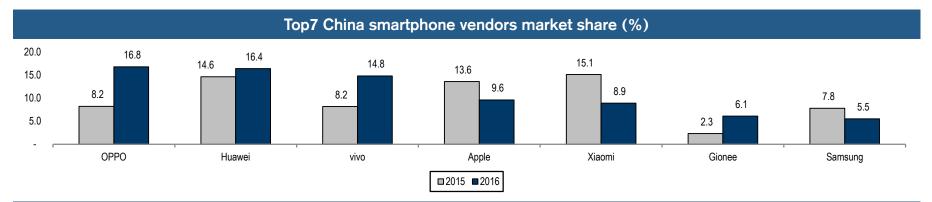
Apple's iPhone: The next product cycle can be big



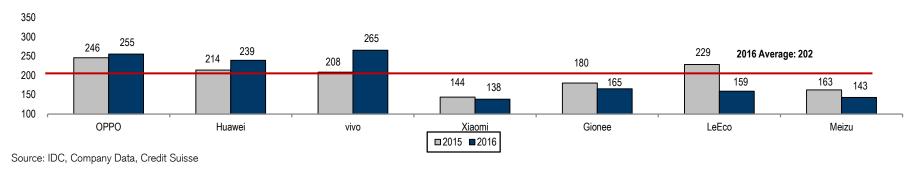
Apple key products shipment (mn)



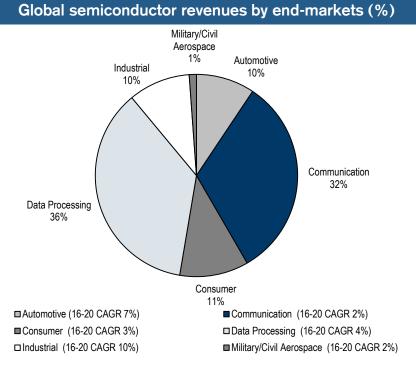
China smartphones: Seeing a +ve mix shift



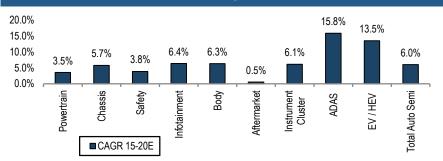
Top 7 China local smartphone vendors ASP (USD)



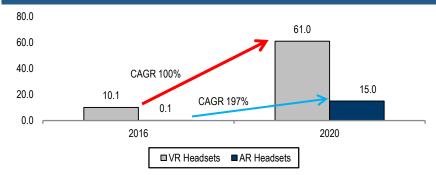
Newer themes will take time to be material



Automotive semis—CAGRs by various applications (%)



VR and AR global unit shipments (mn)



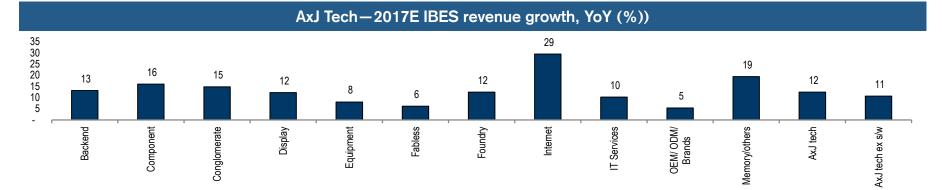
Source: IDC, Credit Suisse



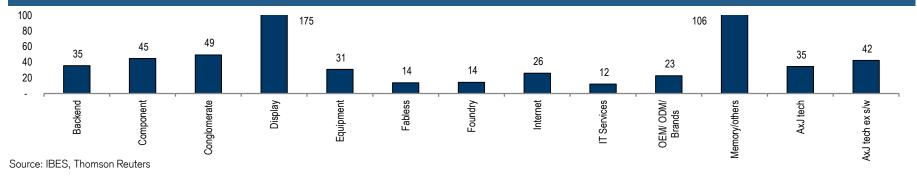


A big forecast earnings growth year: Will it be delivered?

Forecast solid earnings growth in 2017



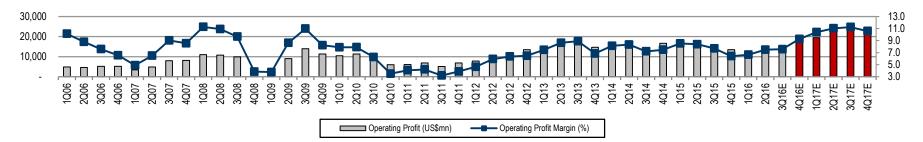
AxJ Tech-2017E IBES net profit growth, YoY (%)



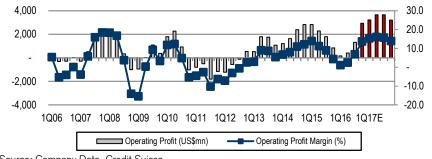
Credit Suisse

Hardware: OPM expansion is the key story

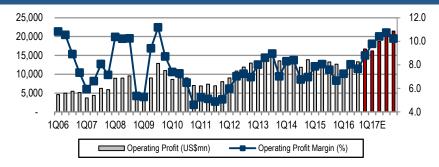
AxJ Tech Hardware OP (mn) and OPM (%)



AxJ Tech-Display and Memory sector OP (mn) and OPM (%)

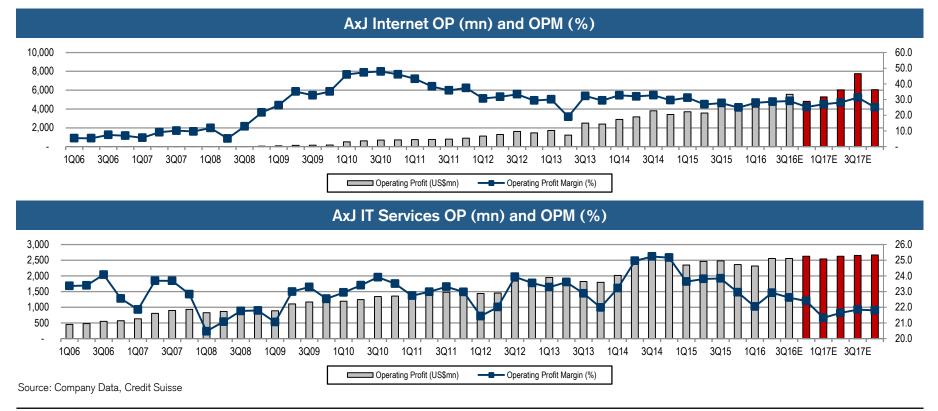


AxJ Tech-Hardware ex Display and Memory OP (mn) and OPM (%)

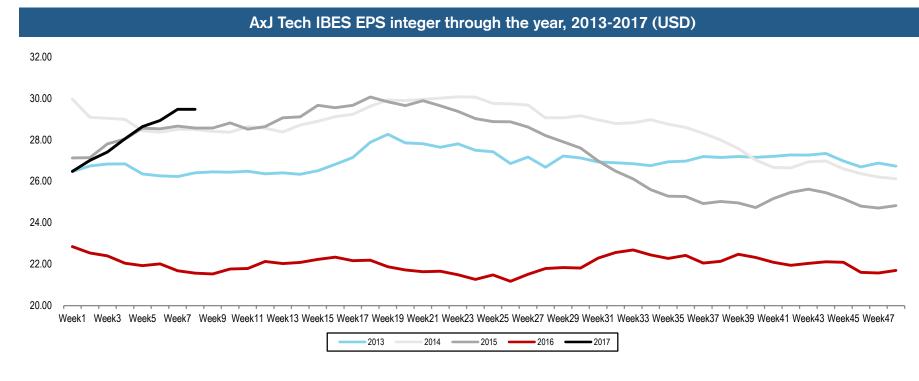


Source: Company Data, Credit Suisse

Software: Largely flattish margin forecasts



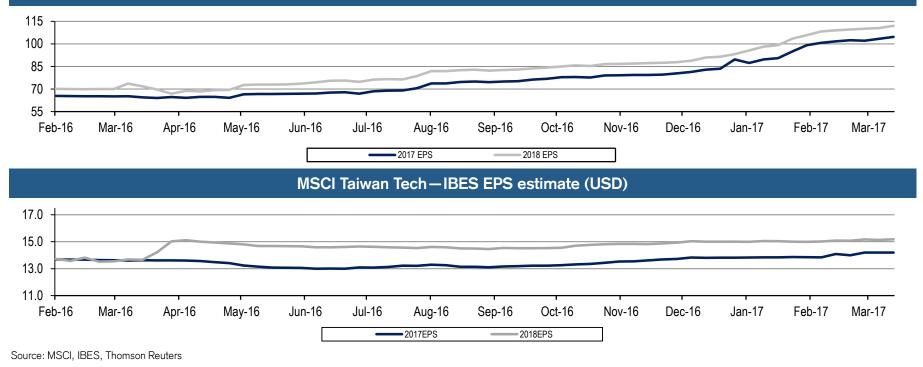
Tech EPS: Strong +ve revisions YTD, led by memory/TFT



Source: MSCI, IBES, Thomson Reuters

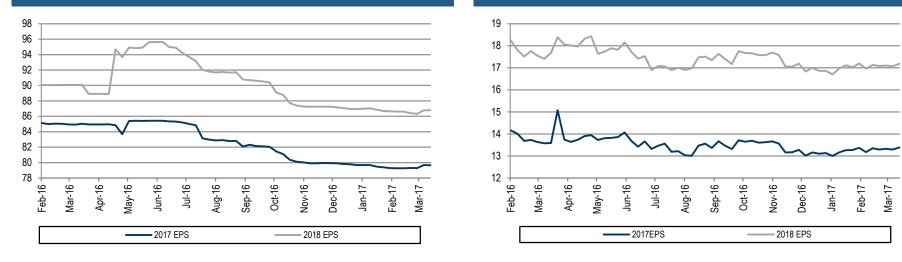
Tech commodities powering Korea revisions

MSCI Korea Tech-IBES EPS estimate (USD)



Internet EPS has been quite stable; Indian IT is stabilising

MSCI India Tech-IBES EPS est. (USD)



MSCI China software services—IBES EPS est. (USD)

Source: MSCI, IBES, Thomson Reuters



Tech EPS: 1M momentum likely to start rolling over

| | Chg in 2017 Cons | . EPS (%) | Chg in 2018 Cons. | EPS (%) |
|-----------------|------------------|-----------|-------------------|---------|
| | 1M | 3M | 1 M | ЗМ |
| Backend | 0.7 | 2.0 | 0.0 | (0.7) |
| Component | 1.8 | 4.7 | 2.5 | 5.6 |
| Conglomerate | 4.8 | 21.6 | 4.8 | 21.2 |
| Display | 14.5 | 70.3 | 8.1 | 32.3 |
| Equipment | 1.8 | 2.2 | 1.7 | 3.9 |
| Fabless | (0.3) | (10.4) | (0.3) | (5.0) |
| Foundry | (0.5) | (0.4) | (0.5) | (1.2) |
| Internet | (0.0) | 1.6 | 0.3 | 1.5 |
| IT Services | 0.0 | (0.4) | (0.1) | (0.9) |
| OEM ODM Brands | (0.7) | (1.0) | (0.5) | 0.4 |
| Memory/others | 4.6 | 64.1 | 5.3 | 52.9 |
| PCB/ Substrates | 1.8 | (0.1) | 2.1 | 2.0 |
| Softw are | (5.4) | (8.3) | 3.0 | (1.0) |
| Total | 1.8 | 9.2 | 1.7 | 7.6 |

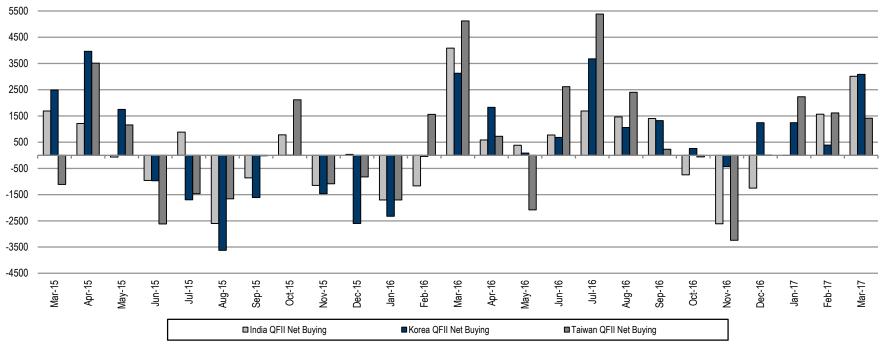
Source: IBES, Thomson Reuters





Valuations and portfolio positioning

Foreign flows turning positive again in 1Q17



*2017 data as of 22 Mar 2017

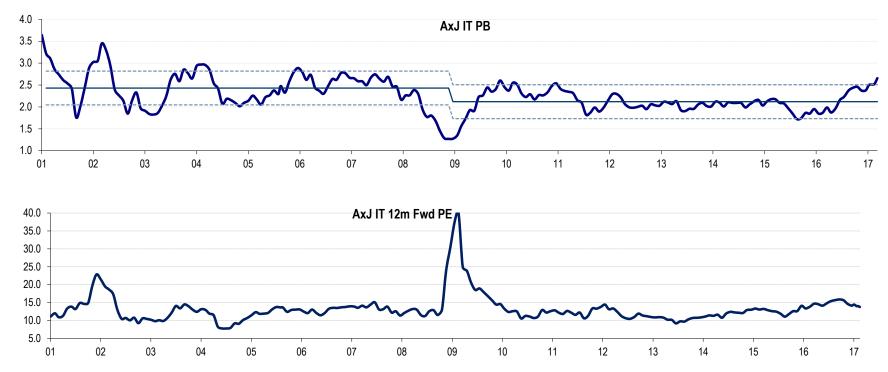
Source: Bloomberg, Credit Suisse

Foreign flows turning positive again in 1Q17

| (US\$mn) | 2015 | 2016 | 2017 | Apr-16 | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 |
|--------------------|-------|----------------|-------|--------|------------------|--------|--------|--------|--------|--------|------------------|--------|--------|--------|--------|
| Foundry | 538 | 1,826 | 911 | (209) | (616) | 660 | 831 | 295 | 90 | (83) | (1,008) | (406) | 219 | 404 | 287 |
| IC Design | (417) | 687 | 493 | 36 | (208) | 130 | 250 | 412 | (108) | 91 | (90) | (29) | 6 | 290 | 197 |
| Backend | (50) | (482) | (49) | (143) | (180) | (106) | 84 | 147 | (17) | (22) | (107) | (126) | (55) | 113 | (107) |
| Memory | (62) | 114 | 52 | (13) | 73 | 7 | 45 | 32 | 0 | 32 | (59) | 51 | 35 | 0 | 17 |
| TFT + Touch | (256) | 35 | 133 | 49 | (140) | 61 | 180 | 139 | (74) | (14) | (4) | (9) | 121 | (108) | 120 |
| Tech Components | 1,942 | 2,424 | 1,281 | 230 | 121 | 354 | 524 | 276 | 738 | 74 | (343) | (45) | 706 | 293 | 282 |
| Tech Hardware | 380 | 1,577 | 1,487 | (6) | (510) | 315 | 829 | (129) | 40 | 545 | (468) | 386 | 160 | 804 | 523 |
| Total Tech | 1,886 | 6 <i>,</i> 039 | 4,462 | (127) | (1,504) | 1,380 | 2,807 | 1,171 | 660 | 568 | (2 <i>,</i> 089) | (162) | 1,252 | 1,816 | 1,393 |
| | | | | | | | | | | | | | | | |
| Financials | (496) | 1,315 | 309 | (143) | (637) | 250 | 778 | 459 | 239 | 139 | 359 | 516 | 118 | 63 | 127 |
| Materials | (957) | 945 | 130 | 186 | (146) | 71 | 288 | 144 | (6) | (20) | 65 | 118 | 70 | 68 | (7) |
| Petrochem | 688 | 1,519 | 297 | 424 | (99) | 16 | 367 | 70 | (154) | 47 | 47 | 274 | 151 | 133 | 13 |
| Property | 47 | (47) | 16 | (21) | (80) | 26 | 72 | 42 | (10) | (30) | (67) | 19 | 9 | 11 | (4) |
| Consumer | 251 | 753 | (237) | 11 | 171 | 196 | 388 | 243 | (47) | 30 | (333) | (225) | (74) | (145) | (18) |
| Industrial | 547 | 507 | 419 | 181 | 148 | 49 | 147 | 249 | (18) | (141) | (284) | (73) | 107 | 155 | 158 |
| Healthcare/Biotech | 367 | (46) | (116) | 67 | 133 | 65 | 17 | (37) | 5 | (22) | (121) | (105) | (55) | (61) | 0 |
| Telecom | 1,110 | (681) | (942) | 170 | 82 | 236 | 289 | (64) | (410) | (486) | (829) | (338) | (173) | (514) | (255) |
| Transportation | (81) | (153) | 143 | (116) | (46) | (11) | 4 | 24 | 14 | 8 | 17 | (16) | 41 | 63 | 39 |
| Total Non-Tech | 1,506 | 4,071 | 19 | 752 | (466) | 893 | 2,359 | 1,132 | (450) | (484) | (1,141) | 170 | 190 | (221) | 51 |
| Total | 3,487 | 10,080 | 4,375 | 625 | (1 <i>,</i> 960) | 2,276 | 5,148 | 2,287 | 211 | 81 | (3,228) | 1 | 1,425 | 1,549 | 1,401 |

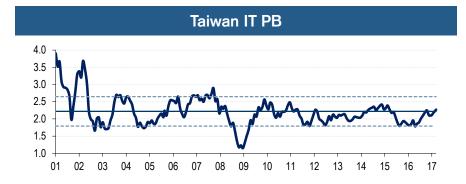
Source: TEJ, Bloomberg, Credit Suisse

AxJ tech valuations: Multiples have moved up



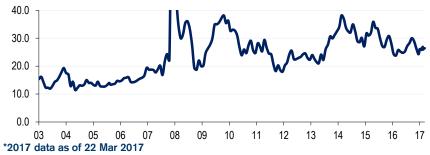
^{*2017} data as of 22 Mar 2017 Source: MSCI, Thomson Reuters, Credit Suisse

Country level valuations: A mixed conclusion





China Internet 12mth fwd PE



Source: MSCI, Thomson Reuters, Credit Suisse

India IT 12mth fwd PE





CS AxJ Tech model portfolio

| Sector | Over/Underweight v. MSCI | Stocks |
|----------------------|-----------------------------|----------------------|
| Downstream/Display | -400 | AUO, |
| | | Hikvision, |
| | | Hon Hai, |
| | | Largan |
| Diversified + Memory | +350 | Samsung Electronics, |
| | | SK Hynix |
| Semis (ex-memory) | -225 | Pow ertech, |
| | | TSMC |
| IT Services | +100 | HCL, |
| | | Tech Mahindra |
| Internet | +175 | Momo, |
| | | Alibaba, |
| | | Tencent |

Source: MSCI, Credit Suisse





Appendix

Stocks seeing consensus upgrades to 2017 EPS estimates over the past three months

| | Bloomberg | | | | PE(x) | CSEPSgrowth(%) | Chg in 2017 Cons | . EPS (%) | PB (x) |
|---------------------------|-----------|------------|------------|-----|---------|----------------|------------------|-----------|--------|
| Name | Ticker | Price | ТР | Rat | 2017 | 2017 | 1M | 3M | 2017 |
| AAC Technologies | 2018 HK | 86.50 | 99.40 | 0 | 17.6 | 27.2 | 2.2 | 3.3 | 5.4 |
| Alibaba | BABA US | 106.09 | 127.00 | 0 | 24.6 | 23.3 | (0.6) | 3.7 | 5.1 |
| ASMP | 522 HK | 106.20 | 127.00 | 0 | 21.0 | 31.5 | 8.1 | 15.4 | 4.5 |
| Asustek | 2357 TT | 290.50 | 260.00 | N | 11.7 | - | - | 2.1 | 1.2 |
| Catcher | 2474 TT | 292.00 | 317.00 | 0 | 10.4 | 1.8 | 4.0 | 5.1 | 1.7 |
| Foxconn | 2354 TT | 94.90 | 101.00 | 0 | 11.7 | 8.4 | 0.2 | 0.4 | 1.3 |
| HCL Technologies | HCLT IN | 872.35 | 975.00 | 0 | 14.3 | 7.4 | - | 0.4 | 3.5 |
| Hon Hai Precision | 2317 TT | 91.50 | 100.00 | 0 | 10.2 | 20.8 | (0.6) | 1.1 | 1.4 |
| JD.com | JD US | 30.58 | 32.00 | Ν | 116.8 | 171.6 | 17.8 | 25.8 | 8.5 |
| Largan Precision | 3008 TT | 4740.00 | 4800.00 | 0 | 19.6 | 45.1 | 1.5 | 7.1 | 6.9 |
| Lens Tech | 300433 CH | 31.30 | 32.10 | 0 | 31.6 | 57.9 | 1.4 | 0.8 | 4.3 |
| LG Display | 034220 KS | 29500.00 | 27000.00 | N | 10.3 | 24.1 | 12.8 | 40.8 | 0.8 |
| LG Electronics | 066570 KS | 69200.00 | 59000.00 | N | 11.0 | 339.9 | 17.5 | 19.6 | 0.8 |
| Lite-On Technology | 2301 TT | 54.00 | 57.00 | 0 | 11.7 | 19.4 | 1.9 | 4.4 | 1.5 |
| Luxshare Precision | 002475 CH | 23.46 | 28.00 | 0 | 26.8 | 53.3 | - | 0.7 | 3.9 |
| Momo | MOMO US | 32.81 | 36.00 | 0 | 26.0 | 45.4 | 22.2 | 24.0 | 8.4 |
| NCSOFT | 036570 KS | 297500.00 | 420000.00 | 0 | 14.4 | 67.3 | 1.5 | 13.3 | 2.8 |
| New Oriental Education | EDU US | 58.69 | 60.00 | 0 | 25.2 | 31.5 | 0.3 | 1.8 | 4.5 |
| Samsung Electro-Mechanics | 009150 KS | 67600.00 | 78600.00 | 0 | 18.1 | 1,757.2 | 11.3 | 0.2 | 1.1 |
| Samsung Electronics | 005930 KS | 2123000.00 | 2900000.00 | 0 | 8.1 | 62.4 | 5.2 | 22.5 | 1.2 |
| Samsung SDI | 006400 KS | 135000.00 | 99000.00 | N | 23.3 | 81.3 | 1.8 | 38.4 | 0.9 |
| Shenzhen O-film Tech | 002456 CH | 36.95 | 40.70 | Ν | 30.2 | 55.6 | 0.6 | 1.4 | 3.8 |
| Sina | SINA US | 70.59 | 75.21 | 0 | (398.7) | (90.7) | 4.9 | 6.4 | 2.1 |
| SK Hynix | 000660 KS | 48650.00 | 71000.00 | 0 | 4.1 | 184.7 | 6.0 | 83.1 | 1.1 |
| Sunny Optical | 2382 HK | 56.65 | 71.20 | 0 | 25.6 | 61.1 | 12.6 | 23.1 | 8.4 |
| Tata Consultancy Services | TCS IN | 2479.10 | 2300.00 | N | 17.6 | 0.8 | 0.2 | 0.4 | 4.8 |
| Tech Mahindra Limited | TECHM IN | 475.40 | 550.00 | 0 | 12.0 | 14.8 | 0.3 | 0.4 | 2.3 |
| Weibo Corporation | WB US | 48.92 | 67.00 | 0 | 37.0 | 60.7 | 6.5 | 6.5 | 10.5 |
| ZTE Corporation | 763 HK | 14.52 | 14.70 | N | 13.1 | - to + | (1.2) | 0.4 | 1.8 |

*Priced as of 22 Mar 2017

Source: Thomson Reuters, Credit Suisse *Stocks with US\$4 bn+ market cap



Stocks seeing consensus downgrades to 2017 EPS estimates over the past three months

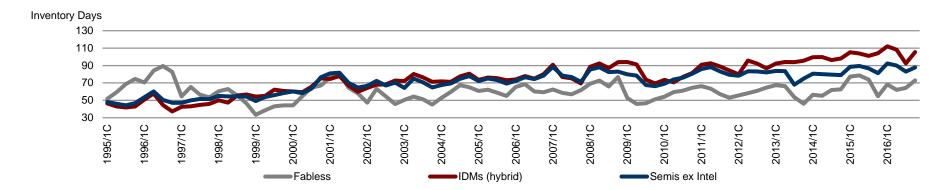
| | Bloomberg | | | | PE (x) CS EP | Sgrowth (%) | Chg in 2017 Cons. | EPS (%) | PB (x) |
|-------------------------------------|-----------|------------|------------|-----|--------------|-------------|-------------------|---------|--------|
| Name | Ticker | Price | TP | Rat | 2017 | 2017 | 1M | 3M | 2017 |
| 58.com Inc. | WUBA US | 37.57 | 37 | Ν | 118.3 | - to + | -8.1 | -30.2 | 2.1 |
| Advantech | 2395 TT | 256.5 | 300 | 0 | 24.9 | 21.1 | -2 | -1.9 | 5.8 |
| Baidu Inc | BIDU US | 169.56 | 181 | N | 33.5 | -13.2 | -2.4 | -2.7 | 3.4 |
| Ctrip.com | CTRP US | 48.2 | 60 | 0 | 100.3 | - to + | -24.9 | -27 | 2.4 |
| Delta Electronics | 2308 TT | 167 | 183 | 0 | 20.8 | 16.7 | -2.3 | -2 | 3.8 |
| GoerTek Inc. | 002241 CH | 33.54 | 42 | 0 | 23.6 | 25.9 | 0 | -1.1 | 4 |
| Hangzhou Hikvision | 002415 CH | 31.55 | 37.4 | 0 | 20.3 | 22.3 | 0.4 | -0.8 | 7 |
| Infosys Limited | INFO IN | 1,027.80 | 1,050.00 | N | 15.3 | 2.7 | -0.1 | -1.2 | 3.2 |
| Kakao Corp | 035720 KS | 86,600.00 | 63,000.00 | U | 38.6 | 83.8 | -1.1 | -4.3 | 1.5 |
| Lenovo Group Ltd | 992 HK | 4.91 | 5 | N | 12.7 | 27.9 | -2.1 | -12.7 | 2.1 |
| MediaTek Inc. | 2454 TT | 227.5 | 200 | N | 16.8 | -7.1 | -2.1 | -15.3 | 1.4 |
| Naver Corp | 035420 KS | 849,000.00 | 950,000.00 | 0 | 26.5 | 26.8 | -0.7 | -8.3 | 5.8 |
| Pegatron | 4938 TT | 87.8 | 73 | N | 10.7 | 14.3 | -3.1 | -4 | 1.4 |
| Quanta Computer | 2382 TT | 64.9 | 63 | N | 12.5 | 22 | -0.9 | -1.1 | 1.8 |
| Samsung SDS | 018260 KS | 145,000.00 | 120,000.00 | N | 24.5 | -0.4 | 0 | -3.5 | 2.1 |
| Sanan Optoelectronics | 600703 CH | 16.15 | 17.6 | 0 | 27.4 | 19.8 | 0.3 | -4 | 3.6 |
| SMIC | 981 HK | 10 | 10.8 | N | 19.3 | -13.7 | -2.6 | -5.5 | 1.2 |
| Taiw an Semiconductor Manufacturing | 2330 TT | 193.5 | 205 | 0 | 14.4 | 9 | -0.6 | -0.2 | 3.2 |
| TAL Education Group | TAL US | 102.87 | 96 | 0 | 43.6 | 56.4 | 0 | -11 | 10.6 |
| Tencent Holdings | 700 HK | 225.2 | 261 | 0 | 30 | 32.9 | -0.4 | -0.9 | 8.1 |
| United Microelectronics | 2303 TT | 12.2 | 12 | N | 22.5 | -16.1 | -0.2 | -11 | 0.7 |
| Vipshop Holdings Limited | VIPS US | 13.77 | 13.8 | N | 17.9 | 11.3 | -0.3 | -1.2 | 6.7 |
| Wangsu Science & Technology | 300017 CH | 42.82 | 51 | N | 22.6 | 13.3 | -13.4 | -14.4 | 4 |
| Wipro Ltd. | WPRO IN | 501.55 | 475 | N | 13.4 | 6.4 | -0.2 | -2.7 | 2.2 |
| Zhejiang Dahua Technology | 002236 CH | 16.84 | 18.8 | 0 | 21.9 | 17.1 | -0.7 | -3.5 | 4.9 |

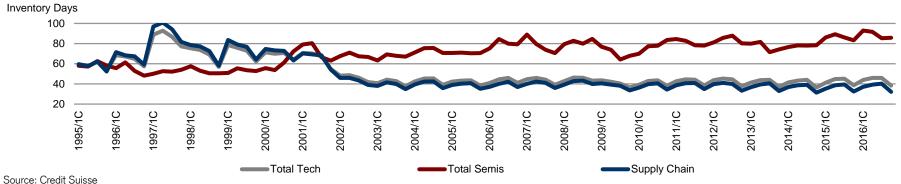
*Priced as of 22 Mar 2017

Source: Thomson Reuters, Credit Suisse *Stocks with US\$4 bn+ market cap



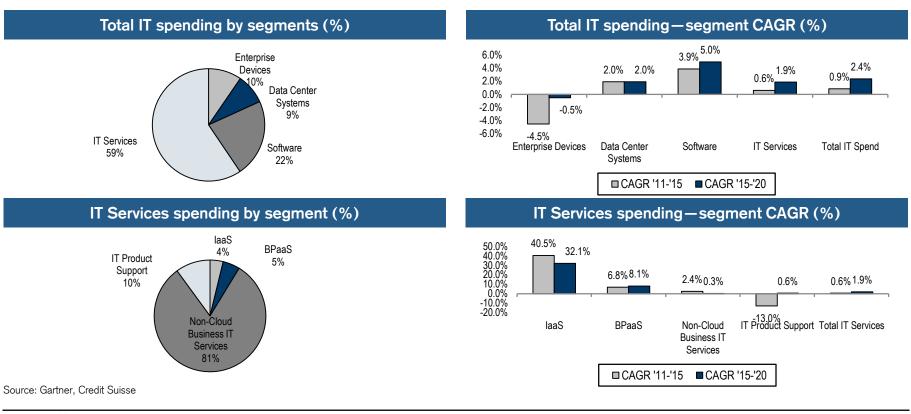
Semi inventory increased since 2H16



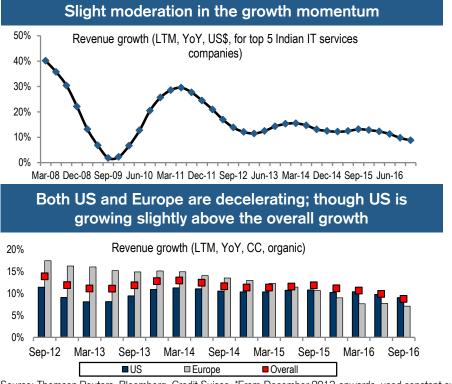




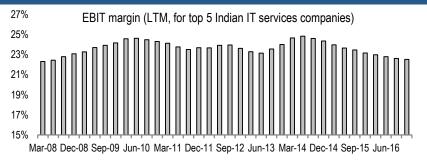
IT Spending: Modest growth recovery



Indian IT: Revenue growth could pick up



Margins are slightly trending down



IT Services spending—segment CAGR (%)



Source: Thomson Reuters, Bloomberg, Credit Suisse. *From December 2013 onwards, used constant currency growth rates. Also adjusted the growth rates for major acquisitions.

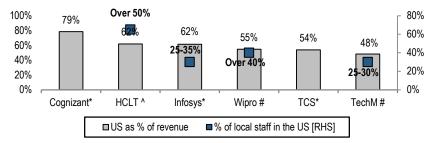
Indian IT: Changes to US visa rules a potential risk

Potential change to H-1B rules is a key overhang; on the other hand, any pick-up in US macro could help

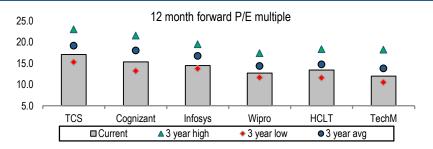
| Measure | Ease of practically implementing | Reasons | Impact |
|--|-------------------------------------|--|--|
| H-1B/L1 Visa fee hike by another US\$2,000/2,250 | High | One such increase took place in 2015. | 20-30 bps margin impact |
| Minimum wage increased by 15% | Moderate | There have been proposals in the earlier bills to use the prevailing wage as the minimum threshold. In the last couple of bills, the minimum wage limit of US\$100-110k has been proposed. However, the wage levels differ between jobs and locations. One minimum threshold may not work. | |
| Lower visa limit | Moderate to low | None of the last 5-6 years' bills that have been tabled has proposed a reduction in the limit of H-1B visa. Indeed, "H-1B and L-1 Visa Reform Act of 2013" and "Border Security, Economic Opportunity, and Immigration Modernization Act of 2013" proposed an increase in the limit. This indicates that there is a genuine skill shortage in the US. However, the recent couple of bills have proposed to make the availability of visa difficult for the Indian IT sector. | Any significant reduction in visa availability could disrupt the business. |
| Offshoring tax | Low | Trump has been vocal about preserving American jobs by imposing tariffs on products of U.S. companies that relocate overseas. Some companies may be outsourcing to a very smaller extent, while some might be using outsourcing in a major way. Will there be a differential tax? Also, it would be difficult to monitor the level of outsourcing by different companies in case of IT services. | If implemented, this could have a material impact on the IT work that is being outsourced, directly impacting Indian IT firms' revenue growth and in the immediate-term, the margins. |

H-1B headwind; HCLT better placed and TechM has the least US exposure

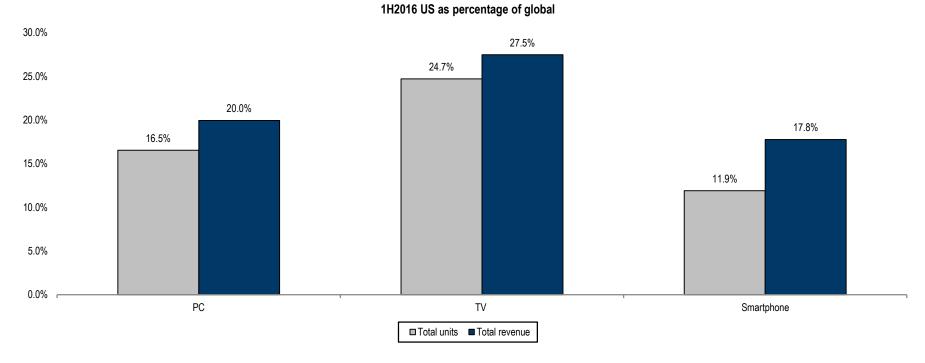
Multiples are well below the three-year average and close to lows



*North America, ^US, # Americas. Source: Credit Suisse estimates, Thomson Reuters, Company data



US accounts for 20-25% of key tech products demand



Source: IDC, IHS

Asian manufacturers in North America

| | | North Ar | nerican manufacturin | g facilities for r | relev | ant Asian technology | / companies | | | |
|--------------------|--------------|---------------------|----------------------|--------------------|-------|--|---------------------------|----------------|---------|------------|
| Company | Ticker | Facilities(name/ | place) | US/Mexico |) | Function/Product | | Absolute ca | pacity | % Capacity |
| Compal Electronics | 2324.TW | Juarez | | Mexico | | LCD assembly site | | | n.a | n.a |
| Dahua | 002236.S | Z Dahua Technolog | gy USA Inc. | US | | Video surveillance | | Rmb92.5~2 | 278 mn | 1-3% |
| Hon Hai Precision | 2317.TW | Chihuahua | | Mexico | | Handsets | | | n.a | n.a |
| Hon Hai Precision | 2317.TW | Guadalajara | | Mexico | | PCs | | | n.a | n.a |
| Hon Hai Precision | 2317.TW | Baja California | | Mexico | | LCD TVs | | | n.a | n.a |
| Hon Hai Precision | 2317.TW | Juarez | | Mexico | | Set-top box, home gatewa | ys, routers, etc | | n.a | n.a |
| Inventec Co Ltd | 2356.TW | Juarez | | Mexico | | Enterprise servers and sto troubleshooting, after-sale | | | n.a | n.a |
| LG Electronics Inc | 066570.K | S Manufacturing pl | ant | Mexico | | Home appliance | | | n.a | 10% |
| LG Electronics Inc | 066570.K | | | Mexico | | TV | | | n.a | 5-10% |
| Pegatron | 4938.TW | Juarez | | Mexico | | Manufacturing | | | n.a | n.a |
| Samsung Electronic | cs 005930.K | S Manufacturing pl | ant | Mexico | | Home appliance | | | n.a | 10-15% |
| Samsung Electronic | cs 005930.K | S Manufacturing pl | ant | Mexico | | TV | | | n.a | 10% |
| Samsung Electronic | cs 005930.K | S Manufacturing pl | ant | US | | System LSI | | 40,000 per mon | th; 12" | 25% |
| TSHT | 002185.S | Z FlipChip Internat | onal US | US | | Packaging and testing | | 200-300 mn uni | ts/year | <3% |
| TSMC | 2330.TW | 8" fab | | US | | IC manufacturing | | 38000 |) WPM | 2% |
| Wangsu | 300017.S | Z Quantil Networks | i | US | | CDN nodes | | ~10 | nodes | ~2% |
| Wistron | 3231.TW | McKinney, Texas | - Wistron GreenTech | US | | Recycling services for elec | ctronic scrap and e-waste | | n.a | n.a |
| Wistron | 3231.TW | Juarez | | Mexico | | Manufacturing for LCD TV | , DT and mobile devices | | n.a | n.a |
| | | | | Number of emp | ploye | ees | | | | |
| | Hon H | | Pegat | | | Wist | | Inven | | |
| | Global hires | Mexico | Global hires | Mexico | | Global hires | Mexico | Global hires | Me | exico |
| Male | 650,000 | n.a. | 87,070 | | 197 | 28,771 | 1,502 | n.a. | | n.a. |
| Female | 350,000 | n.a. | 35,970 | | 80 | 15,575 | 999 | n.a. | | n.a. |
| Total | 1,000,000 | 20,000 | 123,040 | | 277 | 44,346 | 2,501 | 27,160 | | 1,200 |

Source: Company data, Credit Suisse



The three prime drivers of tech content in automobiles

Environment

(Fuel efficiency + Mandated reductions in emissions)

Legislative mandates to reduce pollution and increase automobile efficiency means more use of technology and a faster shift in favour of xEVs



Safety

(Rising regulatory requirements for safety + Autonomous Driving)

Governments globally striving for 'accident-

free' driving, and to automate their road

network

Connectivity (Consumer entertainment + telematics + navigation + diagnostics + security

Progress towards making the car a part of the consumer's 'ecosystem', and a

technology hub in itself. An increased connectivity (fully-connected to the internet) and

'online' software will increase the risk of exposure to hackers, however.

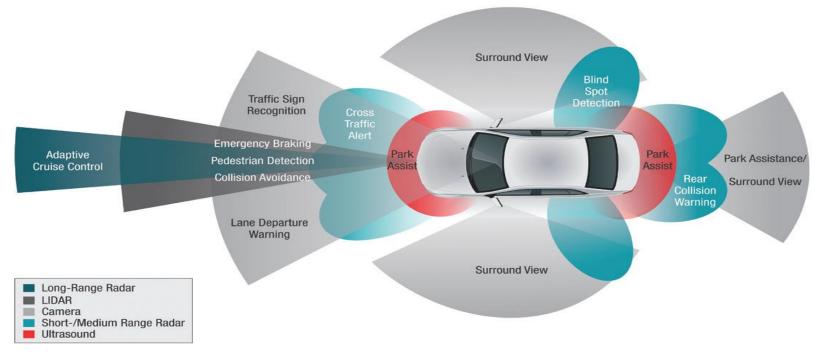
Source: Credit Suisse research

Various automation/safety features

Level 0/1 Level 4/5 Partial Automation No Automation **High Automation Full Automation** (Driver Assistance) (Driver monitors car) (System monitors car) (No driver necessary) Adaptive Cruise Control Emergency Brake w/ Steer Garage Parking Automated Driving (Full) **Highway Chauffeur** Automatic Braking Lane Keeping Assist **Highway Pilot** Blind Spot Detection Partial Automated Parking Road Parking **Robot Taxi Service** Lane Departure Warning Traffic Jam Chauffeur Valet Parking Traffic Jam Assistance Permanent monitoring by driver System in control – with driver as backup

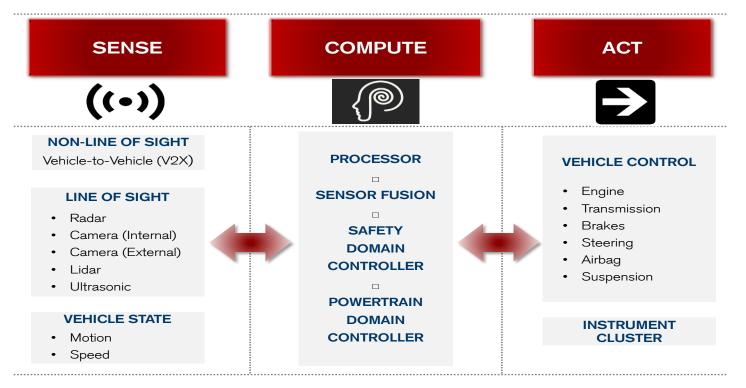
Source: NXP, Infineon, Credit Suisse research

ADAS system overview



Source: Texas Instruments (ADAS Solutions Guide)

ADAS system: Key components



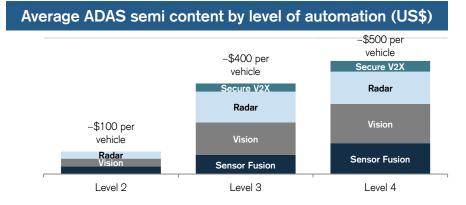
Source: Infineon, NXP, Credit Suisse research

Estimated ADAS components required at different levels of automation

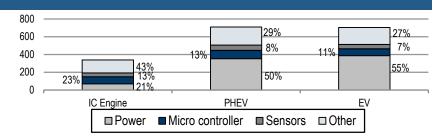


Source: NXP, Credit Suisse research

Automation and xEV lead to increased semis content

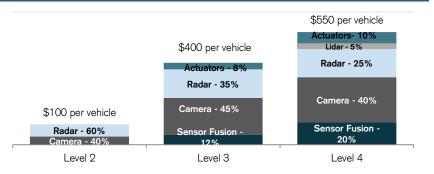


Average semiconductor content by type of engine (US\$)

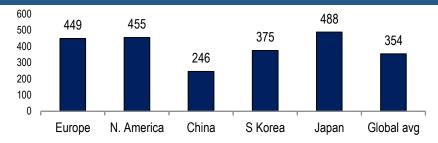


Source: NXP Semiconductors, Infineon (based on IHS data, Sep 2015)

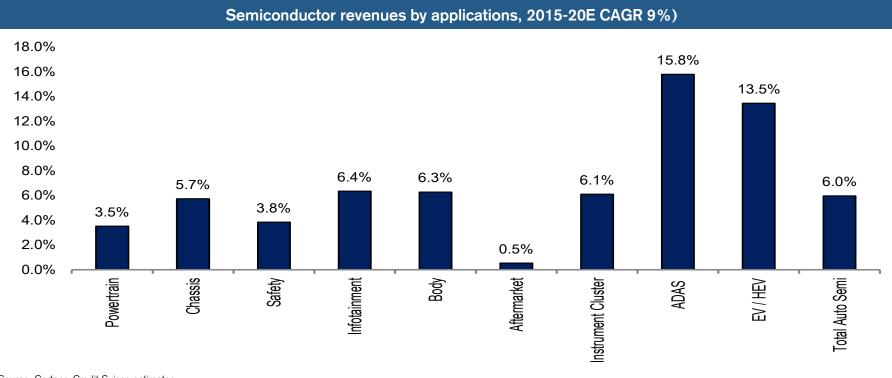




Average semiconductor content per car by geography, 2015E (US\$)



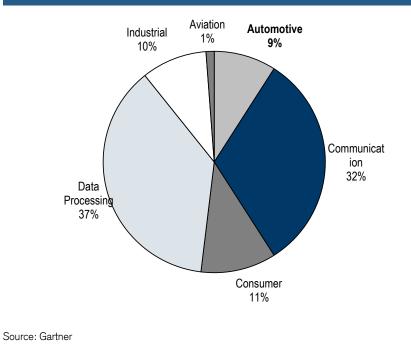
ADAS the key driver for automotive-semis revenues



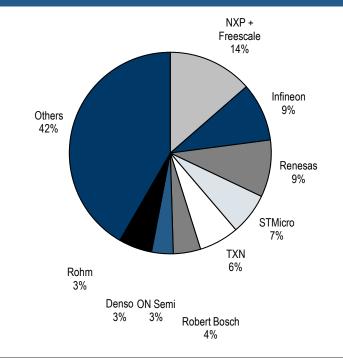
Source: Gartner, Credit Suisse estimates

Automotive-semis: Smaller but a faster growing part

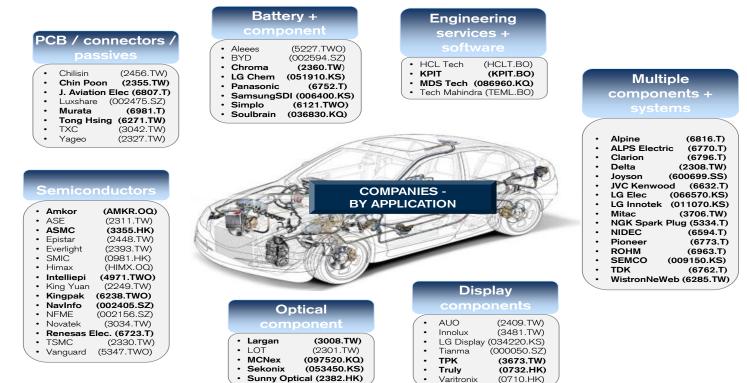
Global semiconductor revenues – by applications, 2015 (%)



Automotive semiconductors—revenue market share, 2015 (%)



Asian automotive-tech supply chain



Source: Credit Suisse research

Companies Mentioned (Price as of 22-Mar-2017)

S8.com Inc. (WUBA.N. \$37.57) AGC Technologies Holdings Inc (2018.HK, HK\$88.5) AGC Technologies Holdings Inc(2018.HK, HK\$88.5) Advantech Co., Ltd. (2355.TW, HX\$256.5) Alibaba Group Holding Limited (BABA.N. \$106.09) Asustek (2357.TW, HX\$290.5) Baidu Inc (BIDU.OQ, \$169.56) Catcher Technology (2474.TW, NT\$292.0) Ctrip.com International, Ltd. (CTRP.OQ, \$48.2) Delta Electronics (2308.TW, NT\$167.0) Foxconn Technology Corp (2354.TW, NT\$94.9) Poxcomi Technology Corp (233-14, W, N1594-8) GoerTek Inc. (002241-32, Rmb33.54) HCL Technologies (HCLT-BO, R35.54) Hangzhou Hikvision Digital Technology Co., Ltd. (002415.SZ, Rmb31.55) Hon Hal Precision (1%P-36), R81027.8) Intrays Limited (IMP-36), R81027.8) JD.com (JD.OQ, \$30.58) Kakao Corp (035720.KQ, W86,600) LG Display Co Ltd. (034220.KS, W29,500) LG Electronics Inc (066570.KS, W69,200) Largan Precision (3008.TW, NT\$4740.0) Lenovo Group Ltd (0992.HK, HK\$4.91) Lens Technology Co., Ltd (300433.SZ, Rmb31.3) Lite-On Technology (2301.TW, NT\$54.0) Luxshare Precision Industry Co., Ltd (002475.SZ, Rmb23.46) MediaTek Inc. (2454.TW. NT\$227.5) Momo (MOMO.OQ, \$32.81) NCSOFT (036570.KS, W297,500) Naver Corp (035420.KS, W849,000) New Oriental Education (EDU.N, \$58,69) Pegatron (4938.TW, NT\$87.8) Quanta Computer (2382.TW, NT\$64.9) SK Hynix Inc. (000660.KS, W48.650) Samsung Electro-Mechanics (009150.KS, W67.600) Samsung Electronics (005930.KS, W2,123,000) Samsung SDI (006400.KS, W135,000) Samsung SDS (018260.KS, W145,000) Sanan Optoelectronics Co. Ltd (600703.SS, Rmb16.15) Semiconductor Manufacturing International Corp. (0981.HK, HK\$10.0) Shenzhen O-film Tech Co., Ltd (002456.SZ, Rmb36.95) Sina (SINA OQ Sunny Optical Technology Group Co.Limited (2382.HK, HK\$56.65) TAL Education Group (TAL.N, \$102.87) Taiwan Semiconductor Manufacturing (2330.TW, NT\$193.5) Tata Consultancy Services (TCS.BO, Rs2479.1) Tech Mahindra Limited (TEMLBO, Rs475.4) Tencent Holdings (0700.HK, HK\$225.2) United Microelectronics (2303.TW, NT\$12.2) Vipshop Holdings Limited (VIPS.N. \$13.77) Wangsu Science & Technology Co. Ltd (300017.SZ. Rmb42.82) Weibo Corporation (WB.OQ, \$48.92) Wipro Ltd. (WIPR.BO, Rs501.55) ZTE Corporation (0763.HK, HK\$14.52) Zhejiang Dahua Technology Co., Ltd (002236.SZ, Rmb16.84)

Disclosure Appendix

Analyst Certification

I, Manish Nigam, 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.

3-Year Price and Rating History for Kakao Corp (035720.KQ)

| 035720.KQ | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 20-Jun-14 | 101,300 | 125,000 | 0 |
| 30-Jul-14 | 130,800 | 150,000 | |
| 06-Oct-14 | 154,800 | 220,000 | |
| 10-Nov-14 | 139,300 | 200,000 | |
| 13-Feb-15 | 141,200 | 175,000 | |
| 20-Mar-15 | 121,000 | 110,000 | N |
| 14-May-15 | 105,900 | 105,000 | |
| 17-Aug-15 | 137,100 | 120,000 | * |
| 13-Jan-16 | 119,800 | | R |
| 21-Mar-16 | 112,200 | 120,000 | N |
| 12-May-16 | 106,300 | | |
| 07-Jun-16 | 98,200 | 69,000 | U |
| 21-Jul-16 | 92,700 | 73,000 | |
| 11-Oct-16 | 81.500 | 63.000 | |

3-Year Price and Rating History for LG Display Co Ltd. (034220.KS)

| 034220.KS | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 23-Apr-14 | 29,000 | 26,000 | N * |
| 15-Oct-14 | 32,250 | 26,000 | U |
| 04-Dec-14 | 34,500 | 27,000 | |
| 28-Jan-15 | 36,050 | 29,000 | |
| 18-Jun-15 | 26,450 | 27,000 | N |
| 23-Jul-15 | 22,950 | 26,000 | |
| 31-Aug-15 | 23,050 | 25,800 | |
| 22-Oct-15 | 23,550 | 25,600 | |
| 06-Jan-16 | 23,100 | 25,300 | |
| 27-Jan-16 | 22,800 | 24,000 | |
| 17-May-16 | 24,400 | 23,700 | |
| 27-Jul-16 | 30,450 | 25,800 | |
| 24-Jan-17 | 31,750 | 27.000 | |



* Asterisk signifies initiation or assumption of coverage.

3-Year Price and Rating History for LG Electronics Inc (066570.KS)

| 066570.KS | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 29-Apr-14 | 71,700 | 83,000 | N * |
| 24-Jul-14 | 77,000 | 87,000 | |
| 29-Oct-14 | 67,800 | 78,000 | |
| 29-Jan-15 | 62,600 | 75,000 | |
| 29-Apr-15 | 61,200 | 68,000 | |
| 02-Jun-15 | 55,400 | 62,000 | |
| 09-Jul-15 | 45,750 | 53,500 | |
| 29-Jul-15 | 43,800 | 49,000 | |
| 25-Aug-15 | 40,850 | 45,500 | |
| 30-Oct-15 | 49,100 | 46,200 | |
| 26-Jan-16 | 54,800 | 49,000 | |
| 16-Mar-16 | 61,900 | 54,000 | |
| 28-Apr-16 | 58,200 | 57,000 | |
| 19-May-16 | 54,000 | 50,000 | |
| 25-Jan-17 | 54,200 | 52,000 | |
| 16-Mar-17 | 68,100 | 59,000 | |



* Asterisk signifies initiation or assumption of coverage.

3-Year Price and Rating History for NCSOFT (036570.KS)

| 036570.KS | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 19-May-14 | 186,500 | 240,000 | 0 |
| 03-Jul-14 | 186,000 | 220,000 | |
| 14-Aug-14 | 155,500 | 190,000 | |
| 25-Aug-14 | 142,000 | 155,000 | N |
| 13-Nov-14 | 165,500 | 185,000 | |
| 11-Feb-15 | 209,500 | 200,000 | |
| 31-Jul-15 | 219,500 | 210,000 | |
| 04-Nov-15 | 210,000 | 220,000 | |
| 28-Jan-16 | 237,000 | 170,000 | U * |
| 12-Feb-16 | 237,000 | 182,000 | |
| 16-May-16 | 240,500 | 186,000 | |
| 13-Jul-16 | 255,500 | 199,000 | |
| 11-Aug-16 | 252,500 | 203,000 | |
| 30-Nov-16 | 272,000 | 184,000 | |
| 16-Jan-17 | 287,000 | 350,000 | 0 |
| 07-Feb-17 | 301,000 | 360,000 | |
| 09-Mar-17 | 281,500 | 420,000 | |
| | | | |

* Asterisk signifies initiation or assumption of coverage.



3-Year Price and Rating History for Naver Corp (035420.KS)

| | Target Price | Closing Price | 35420.KS |
|--------|--------------|---------------|----------|
| Rating | (W) | (W) | late |
| N | 750,000 | 705,000 | 8-May-14 |
| | 850,000 | 787,000 | 0-Jun-14 |
| 0 | 1,000,000 | 754,000 | 1-Oct-14 |
| | 900,000 | 603,000 | 4-May-15 |
| | 840,000 | 518,000 | 0-Jul-15 |
| | 800,000 | 592,000 | 9-Oct-15 |
| | 910,000 | 631,000 | 8-Jan-16 |
| | 890,000 | 628,000 | 9-Jan-16 |
| | 870,000 | 677,000 | 9-Apr-16 |
| R | | 720,000 | 0-Jun-16 |
| NR | | 806,000 | 3-Aug-16 |
| 0 | 1,060,000 | 850,000 | 5-Sep-16 |
| | 1,020,000 | 794,000 | 6-Jan-17 |
| | 930,000 | 753,000 | 0-Jan-17 |
| | 950.000 | 819.000 | 6-Mar-17 |



3-Year Price and Rating History for Samsung Electronics (005930.KS)

| 05930.KS | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 06-May-14 | 1,346,000 | 1,760,000 | 0 |
|)7-Jul-14 | 1,292,000 | 1,740,000 | |
|)8-Jul-14 | 1,295,000 | 1,720,000 | |
| 28-Aug-14 | 1,242,000 | 1,700,000 | |
| 07-Oct-14 | 1,162,000 | 1,680,000 | |
| 03-Sep-15 | 1,122,000 | 1,630,000 | |
| 29-Oct-15 | 1,325,000 | 1,785,000 | |
| 1-Jan-16 | 1,152,000 | 1,690,000 | |
| 28-Jan-16 | 1,145,000 | 1,550,000 | |
|)1-Jun-16 | 1,333,000 | 1,702,000 | |
| 28-Jul-16 | 1,507,000 | 1,790,000 | |
| 5-Dec-16 | 1,759,000 | 2,400,000 | |
| 24-Jan-17 | 1,908,000 | 2,650,000 | |
| 9-Mar-17 | 2.010.000 | 2,900.000 | |



3-Year Price and Rating History for Samsung SDI (006400.KS)

006400.KS Closing Price Target Price Date (W (W) Rating 27-Apr-14 150.000 142.000 N 28-Apr-15 126.000 132.000 30-Jul-15 94,600 105,000 31-Aug-15 84,500 88,000 02-Nov-15 111.000 91.000 26-Jan-17 116.000 99.000 * Asterisk signifies initiation or assumption of coverage



3-Year Price and Rating History for Samsung SDS (018260.KS)

| 018260.KS Date | (W) | (W) | Rating |
|-------------------|---------|---------|--------|
| 25-Nov-14 | 428.000 | 470.000 | 0* |
| 27-Jan-15 | 242,000 | 270,000 | N |
| 01-May-15 | 256,000 | 220,000 | U |
| 29-Oct-15 | 275,000 | 200,000 | |
| 22-Jan-16 | 259,500 | 180,000 | |
| 28-Apr-16 | 168,000 | 130,000 | |
| 06-Dec-16 | 127,500 | 125,000 | N |
| 23-Jan-17 | 132,000 | 120,000 | |



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Outperform (O): The stock's total return is expected to outperform the relevant benchmark* over the next 12 months.

Neutral (N): The stock's total return is expected to be in line with the relevant benchmark* over the next 12 months.

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*Relevant benchmark by region: As of 10th December 2012, Japanese 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. 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 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; 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, the expected total return (ETR) calculation includes 12-month rolling dividend yield. An Outperform rating is assigned where an ETR is greater than or equal to 7.5%; Undergerform where an ETR less than or equal to 5%. A Neutral may be assigned where the ETR is between -5% and 15%. The overlapping rating range allows analysts to assign a rating that puts ETR in the context of associated risks. Prior to 18 May 2015, ETR ranges for Outperform and Underperform ratings did not overlap with Neutral thresholds between 15% and 7.5%, which was in operation from 7 July 2011

3-Year Price and Rating History for SK Hynix Inc. (000660.KS)

| 000660.KS | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 25-Apr-14 | 40,750 | 49,000 | 0 |
| 23-Jun-14 | 48,900 | 64,000 | |
| 29-May-15 | 51,100 | | R |
| 01-Jun-15 | 51,100 | 64,000 | 0 |
| 06-Jul-15 | 40,750 | 59,000 | |
| 23-Jul-15 | 39,000 | 57,000 | |
| 19-Aug-15 | 33,000 | 56,000 | |
| 22-Oct-15 | 31,950 | 49,000 | |
| 26-Jan-16 | 27,850 | 45,000 | |
| 26-Apr-16 | 29,150 | 42,000 | |
| 20-Sep-16 | 39,250 | 46,000 | |
| 03-Oct-16 | 40,200 | 55,000 | |
| 13-Jan-17 | 50,300 | 65,000 | |
| 26-Jan-17 | 53,300 | 71,000 | |



3-Year Price and Rating History for Samsung Electro-Mechanics (009150.KS)

OUTPERFORM

| 009150.KS | Closing Price | Target Price | |
|-----------|---------------|--------------|--------|
| Date | (W) | (W) | Rating |
| 28-Apr-14 | 69,000 | 72,000 | N |
| 02-Jul-14 | 58,700 | 44,000 | U |
| 30-Oct-14 | 47,000 | 44,000 | N |
| 02-Dec-14 | 59,700 | 53,000 | |
| 30-Jan-15 | 67,000 | 58,000 | |
| 27-Apr-15 | 67,900 | 60,000 | |
| 10-Jun-15 | 57,300 | 58,000 | |
| 14-Oct-15 | 61,500 | 80,000 | 0 |
| 25-Jan-16 | 54,100 | 70,000 | |
| 26-Apr-16 | 53,400 | 65,000 | |
| 25-Jul-16 | 55,800 | 68,000 | |
| 27-Oct-16 | 48,000 | 60,000 | |
| 25-Jan-17 | 56,600 | 66,000 | |
| 15-Mar-17 | 62,700 | 78,600 | |

- Target Price - Closing Price 009150.KS 90.000 80,000 70.000 60,000 50,000 40,000 01-Jan-2015 01-Jan-2016 01-Jan-2017 NEUTRAL UNDERPERFORM

* Asterisk signifies initiation or assumption of coverage



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|--------------------|---------------------|------------------------------|
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