



INDIA/TECHNOLOGY

18 AUGUST 2011

Company	BBG code	Rating	Share price	TP	Chg in TP	Mkt cap	P/E		Yld
			(INR)	(INR)	(%)		FY1	FY2	FY1
Tata Consultancy	TCS IN	REDUCE	999.90	830.00	-39.9	43,119	19.0	17.8	1.7
Infosys	INFO IN	REDUCE	2,448.95	2,000.00	-40.7	30,828	18.2	16.6	1.4
Wipro Ltd	WPRO IN	REDUCE	344.30	270.00	-49.1	18,510	15.7	15.2	1.6
HCL Technologies	HCLT IN	REDUCE	423.20	300.00	-50	6,437	14.5	13.9	2.1
MindTree Ltd	MTCL IN	REDUCE	358.15	270.00	-32.5	319	8.9	11.0	0.8
Persistent Systems	PSYS IN	REDUCE	310.20	250.00	-46.8	265	9.9	11.3	1.0

Prices as at 17 August 2011; Source: Bloomberg, BNP Paribas estimates

INDUSTRY OUTLOOK ↓



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- Downgrade to DETERIORATING, six stocks to REDUCE on large EPS cuts
- Stocks are yet to reflect prolonged macro weakness or likely recession
- Adverse macro data points that could affect 60-75% of revenue emerge
- Strong relationship between Indian IT growth and macro variables

Yes, things could get worse

Stocks should be available cheaper in a few months

We downgrade the India IT services sector to DETERIORATING and six stocks (Infosys, TCS, Wipro, HCL Tech, MindTree and Persistent) to REDUCE. Despite these stocks declining by an average of 13% (vs a 7% drop of the Sensex) in August alone, we think they are yet to reflect a likely prolonged anaemic macro growth scenario and the 50% chance of a US recession that our economics team forecasts. Moreover, we are yet to see material consensus downgrades since the macro data started worsening. We believe that even two-three quarters of flat-to-muted q-q revenue growth over FY12-13 (vs Street expectations of a 4-5% average) for our covered companies could lead to large EPS cuts. We lower our FY13 EPS estimates by 12-31% for the six stocks and to 10-30% below Street.

Adverse macro across verticals, micro should catch up
 Significant adverse macro data has recently emerged that could have a bearing on verticals such as financials, manufacturing and retail (61-74% of revenue for large-cap Indian IT companies). These include a fall in the US ISM and consumer confidence data to recessionary levels, and over 100,000 jobs cuts announced in financial services. Further, continuing weakness in telecom spending suggests likely lower visibility for about 80% of revenue. Moreover, downward revisions to historical US GDP data bring into question recent above-trend India IT growth. Meanwhile, as per our discussions with companies and contacts, while ongoing projects have not been affected, there is nervousness about future quarters.

Quantifying the impact of weak macro on Indian IT growth
 Our regression analysis of historical Indian IT services growth versus US GDP growth and a base effect variable suggests a fairly strong relationship (adjusted R-square of 0.58). Therefore, over the next few quarters, not only should Indian IT growth slow due to a higher base from continued headcount dependence, but weaker macro data should only worsen the situation. In fact, our exercise suggests that another recession of a similar magnitude as 2008-09 could result in worse q-q revenue dips for Indian IT players than they saw in FY09.

Valuation: Revisiting our DCF charts

Our DCF models suggest stocks are trading at close to their base-case fair values *assuming long-term average risk levels persist*. However, in 2008, stocks fell to as much as 40-65% below their fair values, and we believe such a situation could repeat if demand worsens. For investors looking for sector exposure, we recommend higher-margin players (TCS, Infosys) as they are likely to better protect their earnings. The risk to our call is unexpected USD/INR depreciation.

Stocks should be available cheaper in a few months

We are downgrading the Indian IT services sector to DETERIORATING and six stocks (Infosys, TCS, Wipro, HCL Tech, MindTree and Persistent) to REDUCE. Despite an average of 13% decline of large-cap IT stocks in August alone (vs a 7% drop of the Sensex), we think stock prices are yet to reflect either a likely prolonged anaemic macro growth scenario nor the 50% probability of a US recession that our economics team believes is the case.

The recent fall in stocks may lead investors to believe that value is emerging, but we think stocks will be available cheaper over the next few months because we are likely to see deteriorating news flow. Moreover, we are yet to see any material consensus EPS downgrades since the data started worsening recently.

We believe even two-three quarters of flat-to-muted q-q revenue growth over FY12-13 for our coverage companies could lead to significant EPS cuts on a constant currency basis. Current Bloomberg consensus projections imply more than 5% average q-q revenue growth for the remainder of FY12 and over 4% for FY13 for the four large-cap stocks (TCS, Infosys, Wipro and HCL Tech).

Our own FY13 EPS estimates are now lower by 12-31% for the six stocks and are about 10-30% below consensus. We have also reduced our target prices accordingly.

Exhibit 1: Changes to our estimates

	— FY12E revenue —			FY12E EBIT margin			—FY12E net profit —			— FY13E revenue —			FY13E EBIT margin			— FY13E net profit —		
	New	Prev	Var	New	Prev	Var	New	Prev	Var	New	Prev	Var	New	Prev	Var	New	Prev	Var
	(INR m)	(INR m)	(%)	(%)	(%)	(bp)	(INR m)	(INR m)	(%)	(INR m)	(INR m)	(%)	(%)	(%)	(bps)	(INR m)	(INR m)	(%)
TCS	467,062	466,436	0.1	27.5	27.4	9	102,979	103,114	(0.1)	510,713	570,749	(10.5)	27.1	27.4	(33)	110,020	124,900	(11.9)
Infosys	322,903	324,530	(0.5)	28.0	28.0	(4)	76,858	77,967	(1.4)	359,438	396,384	(9.3)	27.2	28.4	(124)	84,347	96,321	(12.4)
Wipro	359,058	371,617	(3.4)	17.2	17.9	(69)	53,673	58,317	(8.0)	382,916	451,034	(15.1)	16.6	19.1	(245)	55,764	73,406	(24.0)
HCL Tech	192,088	198,499	(3.2)	14.1	15.2	(111)	20,537	22,556	(8.9)	209,391	242,379	(13.6)	13.2	15.7	(252)	21,635	28,878	(25.1)
MindTree	17,602	17,613	(0.1)	9.6	8.5	111	1,644	1,356	21.2	19,183	21,432	(10.5)	8.2	9.8	(157)	1,358	1,728	(21.4)
Persistent	10,067	10,283	(2.1)	14.7	14.6	11	1,277	1,313	(2.8)	11,073	13,235	(16.3)	13.1	14.7	(155)	1,146	1,653	(30.7)

Source: BNP Paribas estimates

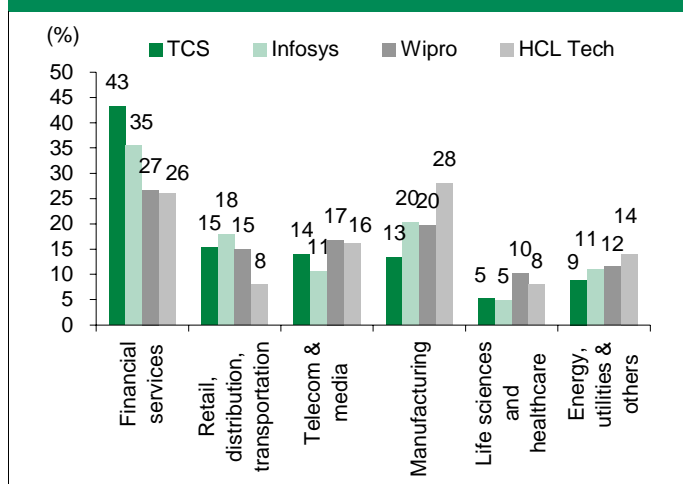
Adverse macro developments in each of the largest verticals

As is now widely known, there are three macro worries to contend with, all of which could worsen the outlook for IT services spending over the next few quarters: 1) deteriorating US and Europe growth data, 2) the US sovereign downgrade, and, 3) continued escalation of the European debt crisis.

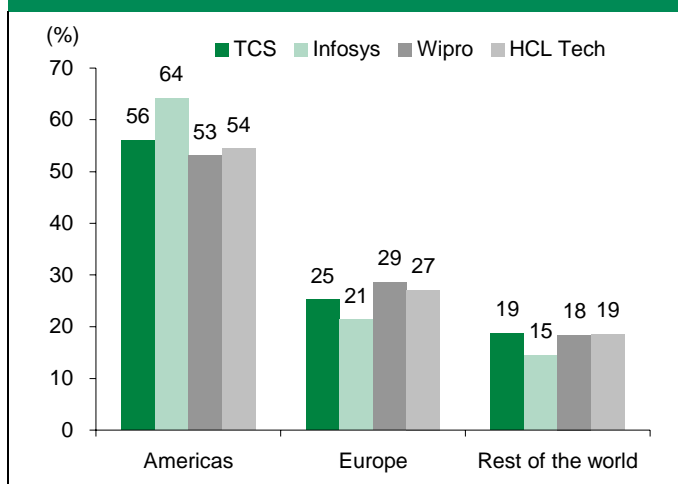
Over the past fortnight or so, significant macro data has come to light that signals a drop in q-q growth rates for Indian IT companies across verticals, and more specifically for financials, manufacturing and retail (61-74% of revenue for large-cap Indian IT companies). Add to this, already continuing weakness in the telecom vertical suggests likely lower visibility in areas that contribute about 80% of revenue for Indian IT services players.

Downward GDP revisions bring into question recent above-trend India IT growth

Recent revisions to US GDP data suggest that the economy was in a deeper recession and the recovery was more lacklustre than previously believed. Furthermore, the US economy grew at only about 1% annualized in 1H11. This brings into question the above-trend growth that Indian IT companies have seen over the past few quarters (given the economy was worse off relative to IT services spending levels), and it is likely clients will re-look at their IT budgets given the new economic realities.

Exhibit 2: Revenue split by vertical

Note: Data regrouped in order to allow for comparison between companies
Sources: Company reports; BNP Paribas

Exhibit 3: Revenue split by geography

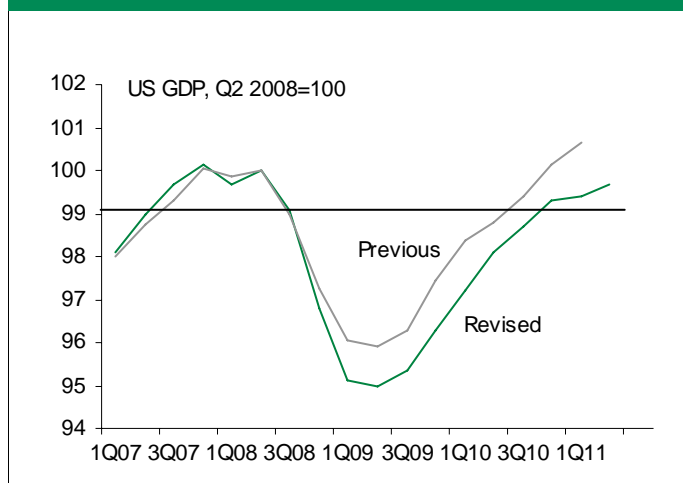
Note: Data regrouped in order to allow for comparison between companies
Sources: Company reports; BNP Paribas

Furthermore, BNPP economists now see 50-50 chance of recession

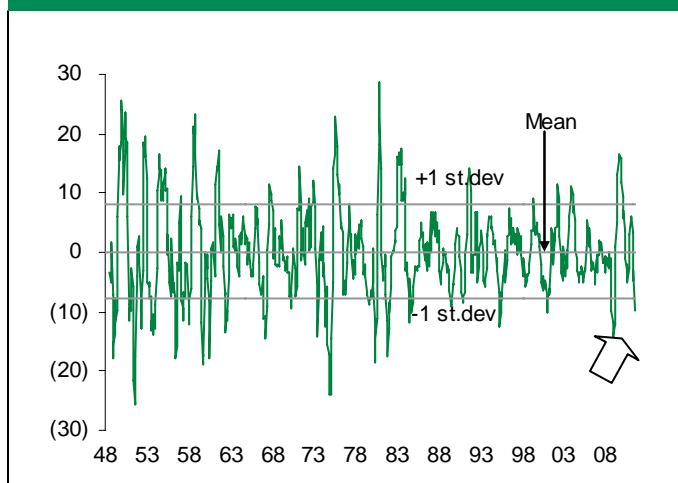
As per our economists (*When All Else Fails*, 9 August 2011), the combination of markdowns to the global economic outlook and a growing sense that policymakers are no longer able or willing to offer support have led them to believe that there is 50% probability of a recession over the next six months. This is in contrast to their earlier view that the world was going through a soft patch and that growth would recover from 3Q11.

US ISM declines consistent with a recessionary situation

Meanwhile, the continued decline in the US ISM survey data suggests that the economy has weakened further moving into 3Q11. As per our economists, the abrupt nature of the change in the index is usually associated with recession (*Macro Monday*, 8 August 2011).

Exhibit 4: Revisions to US GDP data

Sources: Reuters EcoWin Pro; BNP Paribas

Exhibit 5: US ISM data pointing to recession

Sources: Reuters EcoWin Pro; BNP Paribas

Consumer sentiment at lower than 2008 crisis levels

The Reuters/University of Michigan consumer sentiment index fell sharply to 54.9 in mid-August from 63.7 in late July, and was lower than the crisis level of November 2008.

Meanwhile, several financial institutions have announced job cuts

In addition, as per Bloomberg data, several financial institutions (mostly in Europe) have announced more than 100,000 job cuts in 2011 to cut costs.

Exhibit 6: Significant financial services job cuts announced this year

	Job cuts announced in 2011	Total headcount as of 31 Dec	Cut as % of 31 Dec headcount
HSBC Holdings Plc, U.K.	30,000	295,061	10.0
Lloyds Banking Group Plc, U.K.	16,800	104,000	16.0
Intesa Sanpaolo SpA, Italy	3,000	102,000	2.9
Bankia, Spain	3,000	na	na
Barclays Plc, U.K.	3,000	147,500	2.0
Banca Monte dei Paschi di Siena SpA, Italy	2,500	31,400	8.0
Credit Suisse Group AG, Switzerland	2,025	50,100	4.0
RBS, UK	2,000	na	na
Allied Irish Banks Plc, Ireland	2,000	14,255	14.0
Bank of America Corp., US	1,575	286,951	0.5
Banco Popolare SC, Italy	1,120	20,000	5.6
Unione di Banche Italiane ScpA, Italy	1,000	19,700	5.1
Goldman Sachs Group Inc., U.S.	1,000	35,700	2.8
Grupo Financiero Banorte SAB, Mexico	1,000	25,000*	4.0
Synovus Financial Corp., U.S.	850	6,109	13.9
State Street Corp., US	850	28,670	3.0
UniCredit SpA, Italy	700	160,000	0.4
Erste Group Bank AG, Austria	550	50,272	1.1
American Express Co., US	550	61,000	0.9
UBS AG, Switzerland	500	64,617	0.8

Note: Headcount reflects Grupo Financiero Banorte's acquisition of Ixe Grupo Financiero SAB, which was completed in April
Sources: Bloomberg; Business Insider

There have been negative macro developments recently that could potentially impact all of the largest verticals of Indian IT players

Much of the growth in recent years for Indian IT companies has come from market share gains because of the much improved scale, better client relationships from beefed up front ends, and newer service lines such as infrastructure services and verticals such as energy, utilities and healthcare. We also believe that they are probably better prepared now than in 2008 to face a recessionary situation.

However, these factors do not take away from the fact that in the event of an overall slowdown, they would not stay unaffected.

Ground level and macro data should eventually converge

No negatives from two CEOs on the road, but nervousness on the ground now

Our discussions with companies, industry contacts and recruitment agencies over the past week suggest that companies are still trying to assess the likely impact of the recent events. In fact, we had two industry CEOs (MindTree and Persistent Systems) on the road with us in late-July for investor meetings, and neither of them had anything negative to comment on demand. This is consistent with our checks that suggest that ongoing IT services projects have not been impacted yet, but the feeling on-the-ground is nervous about future quarters (particularly from December 2011 quarter).

Recently strong software and services results point to high near-term visibility

Meanwhile, company results that have come in recently (IBM, SAP, Cognizant and others) present a bullish near-term demand picture with several of the companies raising their full-year outlook.

Exhibit 7: Recent tech result announcements indicate good near-term visibility

	Quarter beat/miss		Guidance	
	Revenue	EPS	Revenue	EPS
IBM	Beat	Beat		Raised
Cisco	Beat	Beat		
Cognizant	Beat	Beat	Raised	Raised
CSC	Beat	Beat	Same	Same
Accenture	Beat	Beat	Raised	Raised
Oracle	Inline	Beat	na	na
SAP	Beat	Beat	Same	Same range, but guided to upper end

Sources: Company reports; Bloomberg

But demand could worsen from December 2011

For Indian IT services companies, we believe previous projections of a 2HFY12 or 1HFY13 pick-up need a rethink given the new macro data at hand. All these data points suggest high near-term visibility, but a relatively cloudy outlook from late FY12.

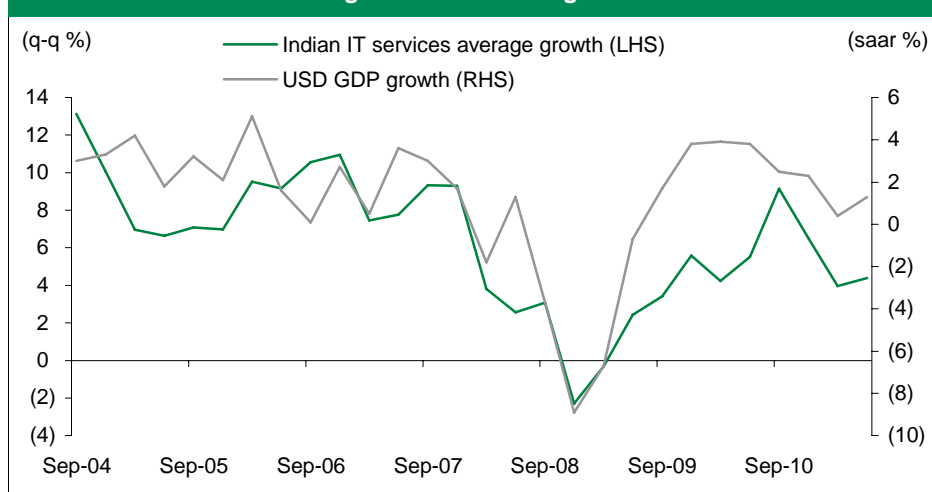
Quantifying the impact of weak macro on Indian IT growth

In boom times, clients offshore more and in bad times, they offshore less

There have been some arguments that in recessionary times, clients increase outsourcing spending to cut costs. However, we note that over the past few years, Indian IT revenue growth has closely tracked US GDP growth.

In fact, as we highlighted in our note *No growth if top customers don't expand*, 26 November 2008, historically, IT offshoring growth has been closely correlated with the revenue growth of the largest 100-150 accounts (and more so the largest 50 accounts which contribute over 50% of the revenue). Hence, Indian IT companies are a direct play on overall macroeconomic activity. In simple terms, in boom times, clients offshore more and, in bad times, they offshore less.

Exhibit 8: Indian IT services growth vs US GDP growth



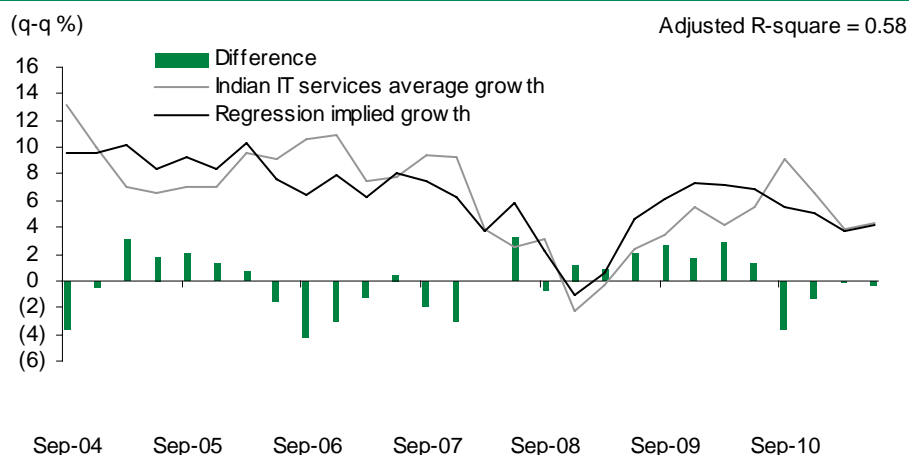
Note: Average growth of large-cap Indian IT companies used above
Sources: bea.gov; company reports; BNP Paribas

Indian IT growth closely tracks US GDP growth. Increased base effect also seems to be having an impact of late

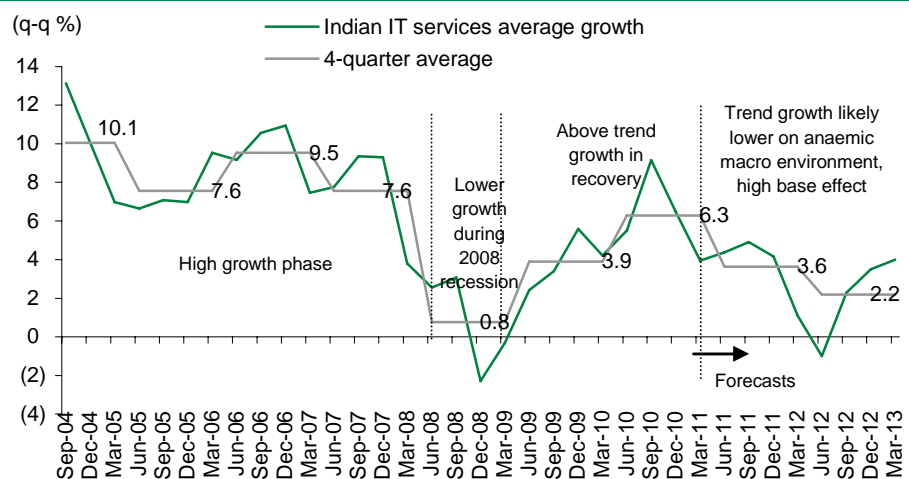
Indian IT trend growth should decline due to weaker macro and higher base ...

Our regression analysis of historical Indian IT services q-q growth versus US GDP growth and a variable to measure the base effect for Indian companies (absolute revenue of Infosys used as a proxy given clean historical data) suggests a fairly strong relationship between the variables (adjusted R-square of 0.58).

In other words, over the next few quarters, not only should the trend growth for Indian IT companies decline due to a higher base because of continued headcount dependence (as we have noted previously in our notes *Don't fix it if it ain't broken*, 28 February 2011 and *The time is now*, 30 March 2011), but weaker macro data should only worsen the situation.

Exhibit 9: Regression of IT services growth with US GDP growth and base effect variable

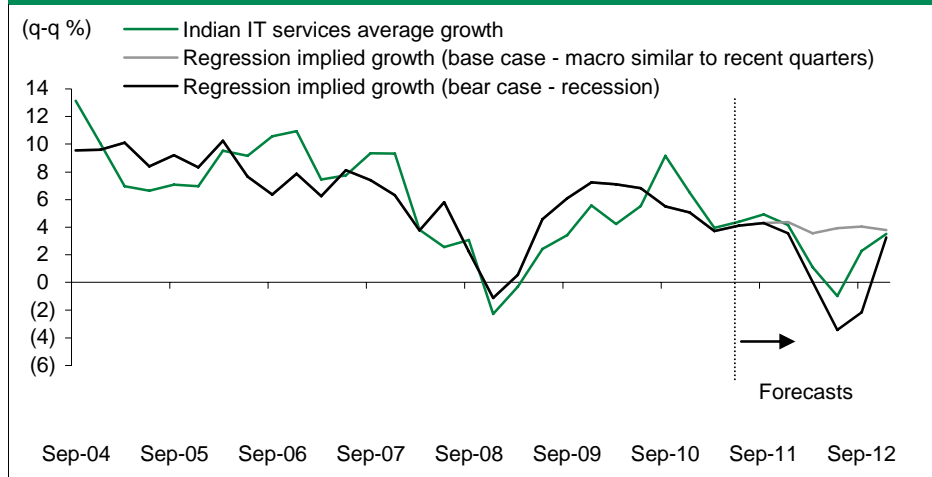
Note: Average growth of large-cap Indian IT companies used above
 Sources: Company reports, BNP Paribas

Exhibit 10: Indian IT trend growth should be lower by FY13

Note: Average growth of large-cap Indian IT companies used above
 Sources: Company reports, BNP Paribas

Based on this analysis, it appears to us that the recent above-trend average q-q growth for the largest four Indian IT companies is unlikely to be sustained, and may have at least been partly driven by clients expecting that the macro situation would improve rather than worsen.

Our theoretical exercise also suggests that the about 6.3% q-q average growth seen by large-cap Indian IT players in FY11 could drop to 3.5-4.0% in FY12 (similar to FY10 levels) and further drop to 2.0-3.0% in FY13 if a recession sets in or if prolonged anaemic macro growth becomes a reality. In fact, if a recession of a similar magnitude as 2008 comes through, we believe Indian IT services companies could see worse q-q revenue dips than they saw in FY09.

Exhibit 11: India IT services growth simulated for different macro conditions

Sources: Company reports, BNP Paribas

If a recession of the same magnitude as 2008 comes through, we expect Indian IT services companies to see worse q-q revenue dips than they saw in FY09.

... and is reflected in our estimate cuts

We revise our estimates to factor in a 50% probability of recession that our economists now believe is the case. Therefore we now see a flattish q-q June 2012 quarter and relatively mute quarters on either side (i.e, March 2012 and September 2012).

Even though we believe Indian IT companies may be better prepared now than in 2008 for such a situation, we think it is unlikely that clients will not ask for lower pricing in such a situation. Therefore, on a constant-currency basis, we see EBIT margin heading lower into FY13.

As a result, while there are relatively small revenue and EPS cuts for our coverage for FY12E, there are significant (9-16% revenue and 12-31% EPS) cuts for FY13E (see Exhibit 1).

Companies with higher EBIT margins such as TCS and Infosys have smaller EPS cuts and therefore remain relatively better investment options in such an environment, in our view.

Risks to our call: Lessons from 2008-09

We draw parallels with 2008-09 when large-cap stocks fell 40-65% from their peaks to troughs between September 2008 and March 2009. FY10 P/E multiples went down 30-50% for the large caps, while those of some mid-cap companies fell more to fundamentally unjustifiable levels. Consensus FY10 (and not so much FY09) EPS estimates were cut 11-30% for large-cap stocks.

However, in hindsight (now that we have actual FY09-11 EPS numbers), it turned out that such EPS cuts were not entirely deserved because: 1) the USD/INR appreciated significantly through the period and aided earnings, and to a lesser extent, 2) the recovery happened faster-than-expected, and 3) companies such as TCS and Wipro ran stringent margin programmes and improved margins.

Between the June 2008 and December 2009 quarters, the USD/INR depreciated by as much as 11% on a quarterly average basis, giving Indian IT companies a 500-550bps EBIT margin buffer. Between these quarters, the largest four companies reported an average 240bp EBIT margin improvement. Therefore, the USD/INR depreciation was the single biggest factor why consensus downgrades proved too aggressive.

We believe the same three factors present risks to our call. Our models are built on a constant-currency basis (using the current approximately USD/INR45.5 rate), so do not factor in the unexpected currency swings.

Exhibit 12: Changes in peak to trough stock prices, P/Es and consensus EPS (September 2008 - March 2009)

(%)	Change in price	— Change in consensus EPS —			— Change in implied P/E —		
		FY09	FY10	FY11	FY09	FY10	FY11
Infosys	(38)	(0)	(11)	(8)	(38)	(30)	(33)
TCS	(48)	(8)	(18)	(24)	(44)	(37)	(32)
Wipro	(55)	(6)	(18)	(21)	(53)	(46)	(44)
HCL Tech	(65)	(12)	(30)	(32)	(60)	(50)	(49)
Tech Mahindra	(74)	2	(10)	(22)	(74)	(71)	(66)
MindTree	(46)	(32)	(10)	(13)	(20)	(40)	(38)

Sources: Bloomberg; BNP Paribas

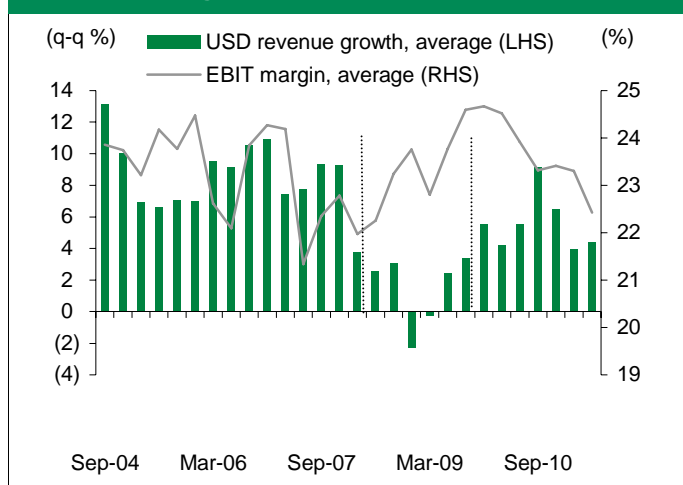
We draw parallels with 2008-09 when large-cap stocks fell 40-65% from their peaks to troughs between September 2008 and March 2009.

Exhibit 13: However not all those consensus EPS cuts in 2008-09 were justified

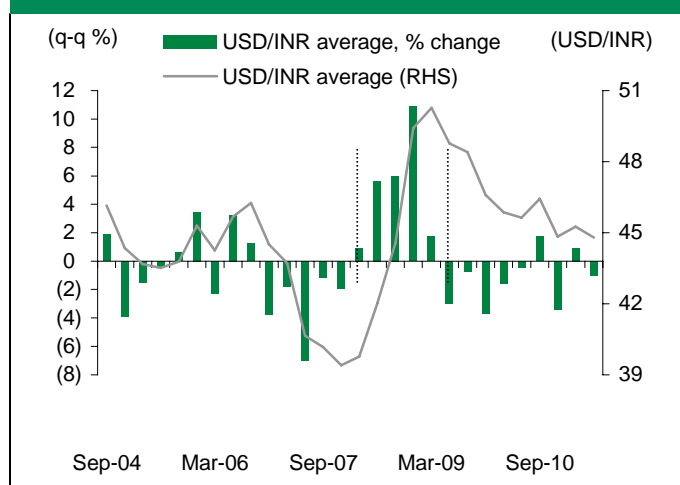
(%)	Consensus FY10 EPS change (peak to trough)	Deserved FY10 EPS change
Infosys	(11)	(7)
TCS	(18)	1
Wipro	(18)	(0)
HCL Tech	(30)	(33)
Tech Mahindra	(10)	(17)
MindTree	(10)	24

Sources: Bloomberg; company reports; BNP Paribas

Between the June 2008 and December 2009 quarters, the USD/INR depreciated by as much as 11% on a quarterly average basis, giving Indian IT companies a 500-550bp EBIT margin buffer. Therefore, the USD/INR depreciation was the single biggest factor why consensus downgrades proved too aggressive.

Exhibit 14: Contrary to initial expectations, margins expanded during the previous downturn ...

Sources: Company reports; BNP Paribas

Exhibit 15: ... helped significantly by a weakening rupee

Sources: Bloomberg; Company reports; BNP Paribas

Valuations: Revisiting our DCF charts and past lessons

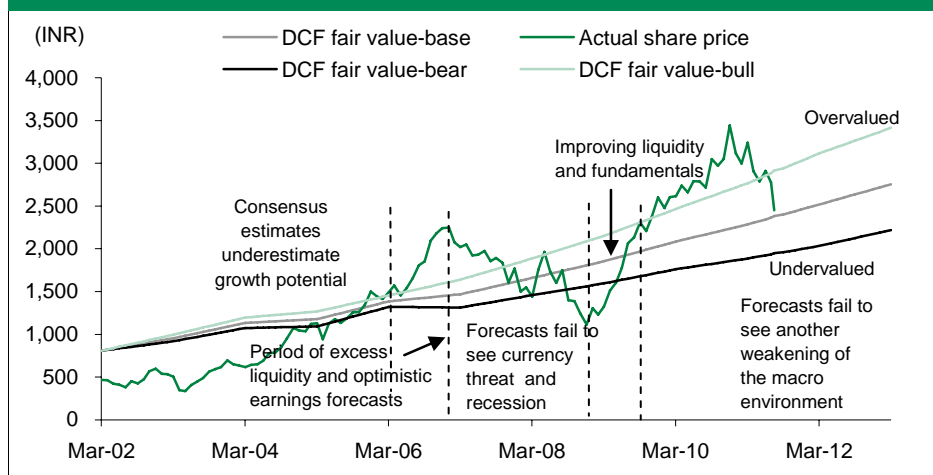
Over the next few months, we expect Indian IT services stocks to decline on macro uncertainty and advise investors to wait for better prices to enter the stocks.

To set our target prices, we revisit our historical DCF models that compare “what was” vs “what should have been” and, in our view, are useful visual aids to identify buy/sell opportunities for the long term. As part of this exercise, we back-calculate the historical DCF fair values of stocks using reported numbers. In other words, these are the prices a stock should have traded at if investors had perfect information about future earnings.

Given the cut in our FY12-14 forecasts, the bull, base and bear case lines see a downward parallel shift. The other adjustment to our DCF models is a reduction in the medium-term growth rate from 12% to 10% because of increased cyclical in the industry that was not so apparent earlier.

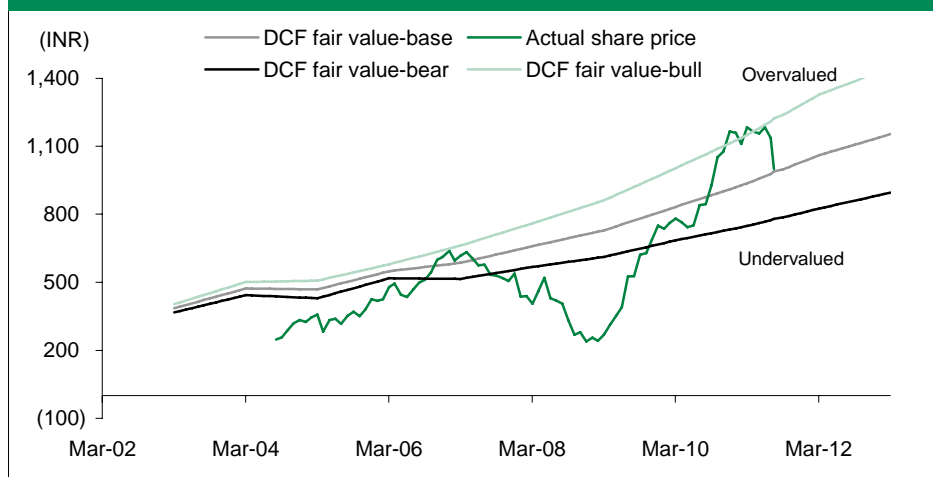
At current prices, stocks are trading at close to their base-case fair values on our estimates, *but at historical long-term average risk premia levels (i.e., no change to beta)*. However, we believe increased macro uncertainty and likely sub-par EPS growth in FY13 could lead to investors reassessing the risk premia for the stocks until such a situation persists. As a result, we believe stocks could trade below what our long-term DCF models suggest.

Exhibit 16: Infosys – actual share prices vs implied long-term DCF fair values

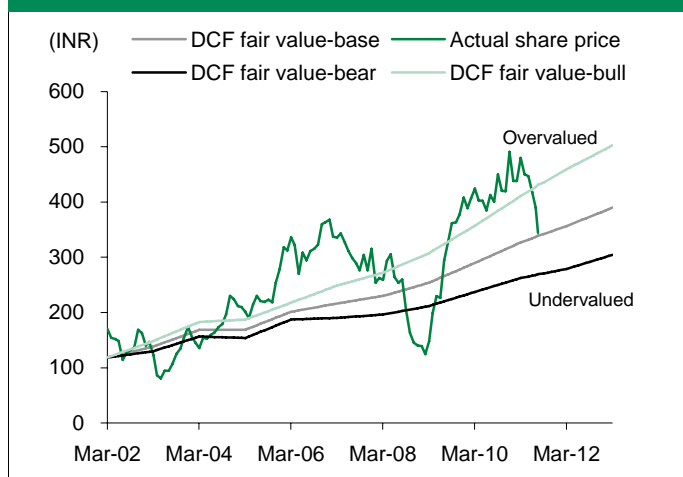


Note: Bull and base cases calculated by varying FY12-14 and medium-term revenue growth projections by 2% for forecast years, FY12-14 margin assumptions by 100bps and medium-term margin assumptions by 10-20bps annually
Source: BNP Paribas estimates

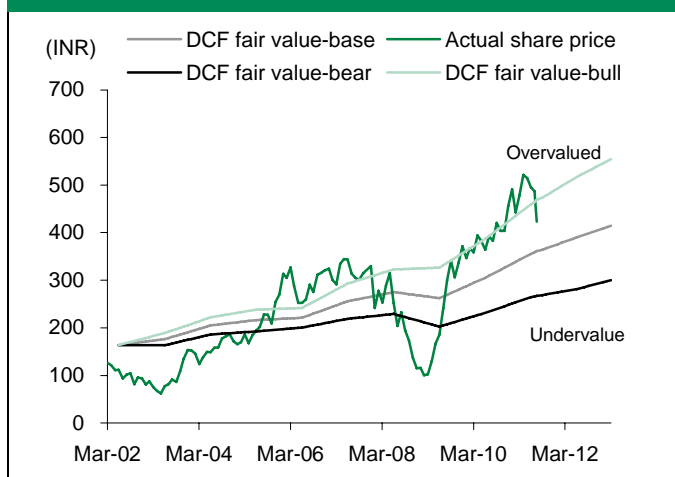
Exhibit 17: TCS – actual share prices vs implied long-term DCF fair values



Note: Bull and base cases calculated by varying FY12-14 and medium-term revenue growth projections by 2% for forecast years, FY12-14 margin assumptions by 100bps and medium-term margin assumptions by 10-20bps annually
Source: BNP Paribas estimates

Exhibit 18: Wipro – actual share prices vs implied long-term DCF fair values

Note: Bull and base cases calculated by varying FY12-14 and medium-term revenue growth projections by 2% for forecast years, FY12-14 margin assumptions by 100bps and medium-term margin assumptions by 10-20bps annually
Source: BNP Paribas estimates

Exhibit 19: HCL Tech – actual share prices vs implied long-term DCF fair values

Note: Bull and base cases calculated by varying FY12-14 and medium-term revenue growth projections by 2% for forecast years, FY12-14 margin assumptions by 100bps and medium-term margin assumptions by 10-20bps annually
Source: BNP Paribas estimates

In 2008, we note that large-cap Indian IT stocks went to levels that were about 40-65% (and about 25-60% on an average during May 2008 to March 2009) below what our long-term DCF fair values would have suggested. Using these for direction, we set our target prices 20-25% below what our long-term DCF models imply.

TCS has significantly re-rated over the past couple of years due to improving operations, stable management and by consistently beating consensus forecasts. As a result, we believe the discount that it traded at in 2008-09 to our implied DCF calculations was at an exaggerated level (recall our DCF charts are built with the benefit of hindsight).

Exhibit 20: Discount to DCF-long-term fair values seen in 2008-09 lows

	Infosys (%)	TCS (%)	Wipro (%)	HCL Tech (%)
Highest absolute discount	(38)	(66)	(43)	(57)
Average discount in Sep 2008-May 2009	(26)	(61)	(34)	(49)

Source: BNP Paribas

In 2008, large-cap Indian IT stocks went to levels that were 40-65% below what our long-term DCF fair values would have suggested.

For investors looking to take exposure to the sector, we would recommend higher-margin companies such as TCS and Infosys as they are likely to better protect their earnings in the event of price cuts. Specifically, we would prefer TCS given its scale, stable management and lean organization structure.

Exhibit 21: Discounted cash flow valuation summary

	TCS	Infosys	Wipro	HCL Tech	MindTree	Persistent
WACC (%)	11.2	11.5	11.5	13.1	14.2	14.8
Terminal growth rate (%)	5.0	5.0	5.0	5.0	5.0	5.0
Revenue growth – FY0-3E (%)	16.7	15.0	12.8	16.0	14.5	18.8
Revenue growth – FY3-10E (%)	10.0	10.0	10.0	10.0	10.0	10.0
Annual EBIT margin change – FY0-3E (bp)	(42)	(98)	(66)	(8)	59	(51)
Annual EBIT margin change – FY3-10E (bp)	(50)	(50)	(30)	(30)	(50)	(60)
12-month DCF-based fair value (INR) using long-term risk premia	1040	2,500	365	399		
Discount assumed to adjust for heightened risk aversion (%)	(20)	(20)	(25)	(25)		
12-month DCF-based fair value (INR)	830	2,000	270	300	270	250
Implied FY13E P/E (x)	14.8	13.5	11.9	9.9	8.3	9.1

Source: BNP Paribas estimates

Exhibit 22: Comparable company valuations

Indian IT services companies															
Large caps															
TCS	TCS IN	1,000	43,119	12.7	10.8	27.5	14.5	13.5	11.8	19.0	17.8	15.5	1.8	6.0	1.7
Infosys	INFO IN	2,449	30,828	13.9	12.9	28.0	13.7	12.7	11.1	18.2	16.6	14.3	1.4	4.5	1.4
Wipro	WPRO IN	344	18,510	11.4	9.7	17.2	12.6	12.3	10.6	15.8	15.2	13.1	1.6	3.0	1.6
HCL Tech	HCLT IN	423	6,437	13.5	12.1	14.1	10.7	10.5	8.5	14.6	14.0	11.6	1.2	3.0	2.1
Median				13.1	11.4	22.4	13.2	12.5	10.9	17.0	15.9	13.7	1.5	3.7	1.7
Mid caps															
Tech Mahindra	TECHM IN	711	1,998	12.3	22.3	16.0	8.4	7.8	7.2	10.3	8.2	6.9	0.5	2.1	0.6
Mphasis	MPHL IN	382	1,773	13.7	4.3	17.1	7.3	6.3	5.8	9.9	9.8	9.1	2.3	2.0	1.1
Satyam	SCS IN	71	1,857	19.0	50.2	9.7	9.8	5.2	3.9	15.6	9.0	6.9	0.3	1.3	-
Patni	PATNI IN	265	786	13.2	12.5	12.4	4.5	3.6	3.3	8.5	7.4	6.7	0.7	0.8	1.3
Hexaware	HEXW IN	81	524	19.9	na	11.3	8.1	6.1	3.9	11.3	8.6	na	na	1.9	0.5
eClerx	ECLX IN	792	508	24.7	13.0	37.5	12.7	10.5	9.4	16.1	13.5	12.6	1.2	7.3	2.6
Rolta India	RLTAIN	103	366	12.9	na	21.9	5.8	4.9	4.2	4.9	4.1	na	na	0.9	3.9
MindTree	MTCL IN	358	319	13.4	(1.5)	9.6	8.5	9.1	7.1	9.0	11.1	9.3	(5.9)	na	0.8
Polaris	POL IN	134	294	17.2	18.8	12.4	3.4	2.9	2.5	6.4	5.5	4.5	0.3	1.1	3.5
Infotech	INFTC IN	115	283	16.9	16.0	11.3	5.3	4.2	3.5	8.9	7.1	6.6	0.6	1.1	1.1
Persistent	PSYS IN	310	265	13.7	1.7	14.7	7.9	8.0	6.7	10.0	11.5	9.7	6.0	1.0	1.0
Median				13.7	13.0	12.4	7.9	6.1	4.2	9.9	8.6	6.9	0.6	1.2	1.1
Global IT services players															
Accenture	ACN US	55	38,902	8.0	12.4	13.6	9.9	8.9	8.1	16.2	14.4	12.8	1.3	10.5	1.7
Cognizant	CTSH US	63	19,048	22.3	20.9	18.6	14.8	12.1	10.0	21.9	18.2	15.0	1.0	4.6	-
Capgemini	CAP FP	30	6,624	5.3	16.8	7.1	5.3	4.5	4.0	12.1	10.2	8.9	0.7	1.0	3.6
CSC	CSC US	30	4,639	2.0	6.6	6.4	na	na	na	6.7	6.3	5.9	1.0	0.6	2.0
Median				6.6	14.6	10.3	9.9	8.9	8.1	14.2	12.3	10.9	1.0	2.8	1.9

Note: Based on FY1-3 EPS CAGR; ^ ex-Satyam for EV/EBIT

* Prices are as at 17 August 2011

Sources: Bloomberg; Company reports; BNP Paribas estimates for Infosys, TCS, Wipro, HCL Tech, Rolta India (RLTA IN, BUY), Tech Mahindra (TECHM IN, HOLD), Satyam (SCS IN, HOLD), MindTree, Mphasis (MPHL IN, HOLD) and Persistent. Bloomberg consensus estimates for all other mentioned companies which are not rated.



Tata Consultancy TCS IN

INDIA / SOFTWARE & SERVICES

 TARGET
 PRIOR TP
 CLOSE
 UP/DOWNSIDE

 INR830.00
 INR1,380.00
 INR999.90
 -17.0%

REDUCE

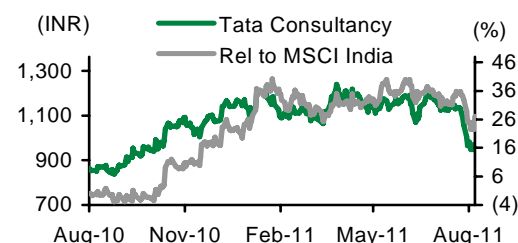
FROM BUY

HOW WE DIFFER FROM THE STREET

	BNP	Consensus	% Diff
Target Price (INR)	830.00	1299.08	(36.1)
EPS 2012 (INR)	52.61	53.09	(0.9)
EPS 2013 (INR)	56.21	62.64	(10.3)
	Positive	Neutral	Negative
Market Recs.	45	12	3

KEY STOCK DATA

YE Mar (INR m)	2012E	2013E	2014E
Revenue	467,062	510,713	592,741
Rec. net profit	102,979	110,020	126,405
Recurring EPS (INR)	52.61	56.21	64.58
Prior rec. EPS (INR)	52.68	63.81	74.09
Chg. In EPS est. (%)	(0.1)	(11.9)	(12.8)
EPS growth (%)	18.6	6.8	14.9
Recurring P/E (x)	19.0	17.8	15.5
Dividend yield (%)	1.7	1.8	2.0
EV/EBITDA (x)	13.8	12.5	10.9
Price/book (x)	6.0	5.0	4.1
Net debt/Equity	(22.3)	(21.6)	(22.1)
ROE (%)	35.4	30.5	29.0



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(14.2)	(11.8)	16.3
Relative to country (%)	(3.9)	(3.4)	25.7

Next results	October 2011
Mkt cap (USD m)	43,119
3m avg daily turnover (USD m)	41.3
Free float (%)	26
Major shareholder	Tata Sons (74%)
12m high/low (INR)	1,239.85/837.30
3m historic vol. (%)	29.2
ADR ticker	-
ADR closing price (USD)	-

Sources : Bloomberg consensus; BNP Paribas estimates

RECENT COMPANY & SECTOR RESEARCH

... the tough get going.....	15 Jul 2011
No surprises here.....	25 Apr 2011
Rotten Apple evidence?	17 Aug 2011
GOOG-MMI deal and Japan	16 Aug 2011

INDUSTRY OUTLOOK ↓

CHANGE IN RECOMMENDATION

Better placed than most

- Downgrade to REDUCE, significant risk to Street FY13-14 EPS
- See demand deteriorating by late FY12, cut FY13E EPS by 12%
- Better placed than peers, but not likely unscathed
- Heightened risk aversion could lead to a de-rating

Downgrade to REDUCE

We downgrade TCS to REDUCE (from Buy) and the India IT services sector outlook to DETERIORATING. We think the stock reflects neither a likely prolonged anaemic macro growth scenario nor the 50% chance of a US recession that our economics team forecasts. Also, we are yet to see material Street downgrades since the macro data started worsening. We believe even two-three quarters of flat-to-muted q-q revenue growth in FY12-13 (vs Bloomberg consensus forecast of 4-5% q-q growth on average) could lead to large EPS cuts.



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Hard to see a likely macro downturn not impacting TCS. Over the past three years, TCS has undergone significant changes and now probably has the most settled organisational structure among peers. This has led to better decision making and accountability, which in turn has seen it consistently beat Street expectations and improve margins. We also believe TCS's contingency plan to deal with another downturn and its scale could make it better placed than peers. However, this does not take away from the fact that in the event of an overall slowdown, TCS will not stay unaffected. In fact, our exercise suggests that another recession of a similar magnitude as 2008-09 could result in worse q-q revenue dips for Indian IT players than seen in FY09.

Lowering estimates significantly

We revise our estimates to factor in the probability of a recession that our economists now expect. Our FY13-14 revenue estimates are down 11-13%, given we expect demand to worsen around late 2011. Moreover, we believe some of the revenue cuts will be led by a loss of pricing, given we expect demand weakness ahead. Therefore, on a constant-currency basis, we see EBIT margin heading lower into FY13. Our FY13-14 EPS estimates are down 12-13% and are now 10-12% below consensus.

Valuation and target price

Given heightened macro uncertainty and risk aversion, we expect stocks to trade significantly below the level implied by our DCF model based on long-term average risk assumptions. In 2008, large-cap Indian stocks fell as much as 40-65% below our fair value estimates, so we set our TP for TCS at a 20% discount to our DCF value. Our new TP implies an FY13E P/E of 14.8x. Key risks to our TP are: 1) unexpected USD/INR depreciation (as seen in 2008-09) that negates our EPS cuts, and 2) less-than-expected deterioration of the macro environment.

RISK EXPERTS

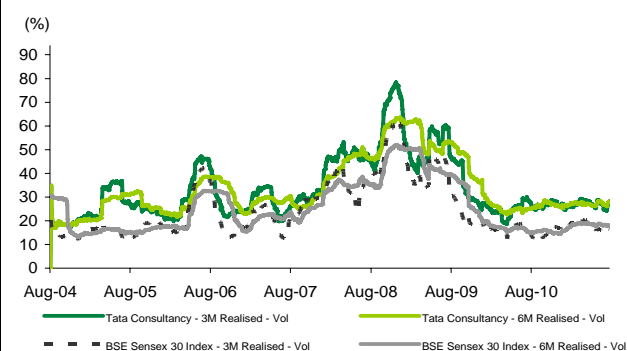
	Base		Worst		Best	
Year-end 31 Mar	2012E	2013E	2012E	2013E	2012E	2013E
USD/INR average	45.24	45.50	43.88	39.88	46.08	51.23
EPS (INR)	52.61	56.21	51.15	48.90	53.55	63.67
Change (%)	—	—	(2.8)	(13.0)	1.8	13.3

Sources: BNP Paribas estimates

Key Earnings Drivers & Sensitivity

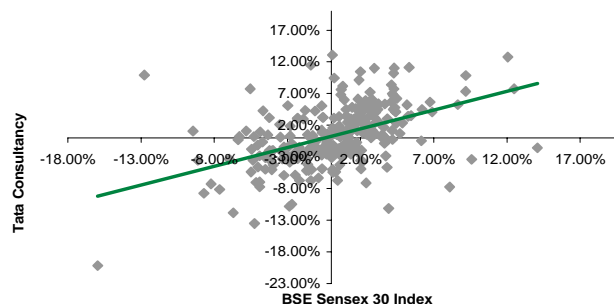
- The key macro factor that can impact TCS's earnings is currency fluctuation, specifically the USD/INR rate.
- In our best and worst cases, we assume the FY13 average USD/INR rate changes by 10% versus our base case. We calculate that, all else staying the same, this could cause a 13% variation to our base-case FY13 EPS.

Tata Consultancy and SENSEX Index (3M and 6M realised-vol)



Sources: Bloomberg; BNP Paribas

Regression – Tata Consultancy to SENSEX Index



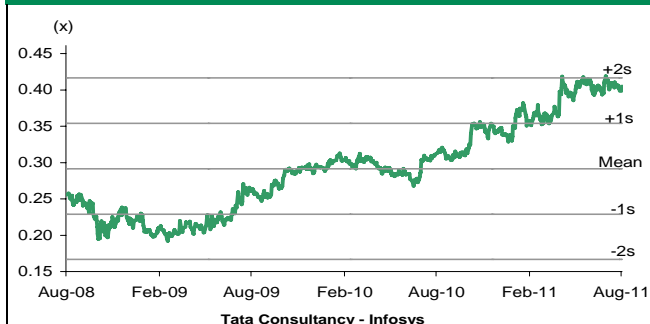
Tata Consultancy = -374 + 0.0647 * SENSEX Index
 R Square = 0.2339
 Regression based on 261 observations of 5 years weekly data.
 Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNP Paribas Sector Strategy

Long/short chart



Sources: Bloomberg, BNP Paribas

The risk experts

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process.

FINANCIAL STATEMENTS

Tata Consultancy

Profit and Loss (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Revenue	300,289	373,245	467,062	510,713	592,741
Cost of sales ex depreciation	(157,150)	(199,882)	(249,094)	(274,974)	(323,587)
Gross profit ex depreciation	143,139	173,363	217,968	235,739	269,154
Other operating income	0	0	0	0	0
Operating costs	(56,325)	(61,403)	(79,993)	(85,485)	(97,832)
Operating EBITDA	86,813	111,960	137,975	150,255	171,323
Depreciation	(7,223)	(8,056)	(9,443)	(11,993)	(13,747)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	79,590	103,904	128,532	138,261	157,576
Net financing costs	2,255	5,247	6,179	6,180	6,277
Associates	0	0	0	0	0
Recurring non operating income	0	0	0	0	0
Non recurring items	0	0	0	0	0
Profit before tax	81,845	109,151	134,711	144,442	163,853
Tax	(12,088)	(21,203)	(30,552)	(33,222)	(36,048)
Profit after tax	69,757	87,948	104,160	111,220	127,805
Minority interests	(1,019)	(1,116)	(1,181)	(1,200)	(1,400)
Preferred dividends	0	0	0	0	0
Other items	(10)	(3)	0	0	0
Reported net profit	68,728	86,829	102,979	110,020	126,405
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	68,728	86,829	102,979	110,020	126,405

Per share (INR)

Recurring EPS *	35.12	44.36	52.61	56.21	64.58
Reported EPS	35.12	44.36	52.61	56.21	64.58
DPS	20.09	14.06	17.00	18.00	20.00

Growth

Revenue (%)	8.0	24.3	25.1	9.3	16.1
Operating EBITDA (%)	20.9	29.0	23.2	8.9	14.0
Operating EBIT (%)	20.6	30.5	23.7	7.6	14.0
Recurring EPS (%)	32.9	26.3	18.6	6.8	14.9
Reported EPS (%)	32.9	26.3	18.6	6.8	14.9

Translates to USD-based revenue growth of 26.1% for FY12E and 8.7% for FY13E

Operating performance

Gross margin inc depreciation (%)	45.3	44.3	44.6	43.8	43.1
Operating EBITDA margin (%)	28.9	30.0	29.5	29.4	28.9
Operating EBIT margin (%)	26.5	27.8	27.5	27.1	26.6
Net margin (%)	22.9	23.3	22.0	21.5	21.3
Effective tax rate (%)	14.8	19.4	22.7	23.0	22.0
Dividend payout on recurring profit (%)	57.2	31.7	32.3	32.0	31.0
Interest cover (x)	-	-	-	-	-
Inventory days	0.4	0.0	0.0	0.0	0.0
Debtor days	72.7	68.5	69.6	71.2	65.8
Creditor days	31.1	51.7	47.5	49.9	49.0
Operating ROIC (%)	59.2	67.3	63.7	58.4	60.5
Operating ROIC – WACC (%)	46.3	54.3	50.7	45.4	47.5
ROIC (%)	32.4	34.6	33.0	29.6	28.3
ROIC – WACC (%)	19.5	21.6	20.1	16.6	15.3
ROE (%)	37.2	37.2	35.4	30.5	29.0
ROA (%)	27.2	28.1	27.2	24.0	23.2

FY12E tax rate to increase after the existing STPI tax benefits expire

* Pre exceptional, pre-goodwill and fully diluted

Sources: Tata Consultancy; BNP Paribas estimates

Tata Consultancy

Cash Flow (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Recurring net profit	68,728	86,829	102,979	110,020	126,405
Depreciation	7,223	8,056	9,443	11,993	13,747
Associates & minorities	1,019	1,116	1,181	1,200	1,400
Other non-cash items	(4,703)	0	0	0	0
Recurring cash flow	72,266	96,001	113,602	123,213	141,552
Change in working capital	2,602	(26,853)	(13,972)	(5,022)	927
Capex - maintenance	0	0	0	0	0
Capex – new investment	(10,358)	(17,015)	(22,215)	(24,238)	(26,673)
Free cash flow to equity	64,511	52,133	77,415	93,953	115,807
Net acquisitions & disposals	(103)	345	0	0	0
Dividends paid	(19,594)	(45,529)	(32,105)	(41,219)	(45,799)
Non recurring cash flows	(44,700)	(1,993)	(26,783)	(40,000)	(50,000)
Net cash flow	114	4,956	18,526	12,734	20,008
Equity finance	54	0	0	0	0
Debt finance	(3,960)	(613)	(318)	0	0
Movement in cash	(3,792)	4,342	18,209	12,734	20,008

Per share (INR)

Recurring cash flow per share	36.92	49.05	58.04	62.95	72.32
FCF to equity per share	32.96	26.64	39.55	48.00	59.17

Balance Sheet (INR m)

Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Working capital assets	80,251	110,548	132,091	144,546	154,665
Working capital liabilities	(36,995)	(42,622)	(49,775)	(56,392)	(67,486)
Net working capital	43,256	67,925	82,316	88,154	87,179
Tangible fixed assets	41,377	51,996	65,148	78,093	91,520
Operating invested capital	84,633	119,921	147,464	166,247	178,698
Goodwill	31,649	31,886	32,038	32,038	32,038
Other intangible assets	1,201	1,905	1,387	687	187
Investments	24,885	54,899	75,359	115,359	165,359
Other assets	21,154	25,745	24,550	23,734	23,782
Invested capital	163,521	234,356	280,798	338,065	400,064
Cash & equivalents	(72,384)	(50,905)	(78,114)	(90,848)	(110,855)
Short term debt	3,529	5,194	4,322	4,322	4,322
Long term debt *	106	39	40	40	40
Net debt	(68,749)	(45,672)	(73,752)	(86,486)	(106,493)
Deferred tax	0	0	0	0	0
Other liabilities	18,224	21,837	23,729	23,729	23,729
Total equity	211,842	255,044	326,647	395,449	476,055
Minority interests	2,204	3,147	4,174	5,374	6,774
Invested capital	163,521	234,356	280,798	338,065	400,064

* includes convertibles and preferred stock which is being treated as debt

Per share (INR)

Book value per share	108	130	166	202	243
Tangible book value per share	90.94	113	149	185	226

Financial strength

Net debt/equity (%)	(32.1)	(17.7)	(22.3)	(21.6)	(22.1)
Net debt/total assets (%)	(25.2)	(13.9)	(18.0)	(17.8)	(18.4)
Current ratio (x)	3.8	3.4	3.9	3.9	3.7
CF interest cover (x)	-	-	-	-	-

Valuation	2010A	2011A	2012E	2013E	2014E
Recurring P/E (x) *	28.5	22.5	19.0	17.8	15.5
Recurring P/E @ target price (x) *	23.6	18.7	15.8	14.8	12.9
Reported P/E (x)	28.5	22.5	19.0	17.8	15.5
Dividend yield (%)	2.0	1.4	1.7	1.8	2.0
P/CF (x)	27.1	20.4	17.2	15.9	13.8
P/FCF (x)	30.3	37.5	25.3	20.8	16.9
Price/book (x)	9.3	7.7	6.0	5.0	4.1
Price/tangible book (x)	11.0	8.9	6.7	5.4	4.4
EV/EBITDA (x) **	22.1	17.0	13.8	12.5	10.9
EV/EBITDA @ target price (x) **	18.3	14.0	11.4	10.3	9.0
EV/invested capital (x)	11.6	8.2	6.7	5.6	4.6

* Pre exceptional, pre-goodwill and fully diluted

** EBITDA includes associate income and recurring non-operating income

Sources: Tata Consultancy; BNP Paribas estimates



Infosys INFO IN

INDIA / SOFTWARE & SERVICES

 TARGET
 PRIOR TP
 CLOSE
 UP/DOWNSIDE

 INR2,000.00
 INR3,370.00
 INR2,448.95
 -18.3%

REDUCE

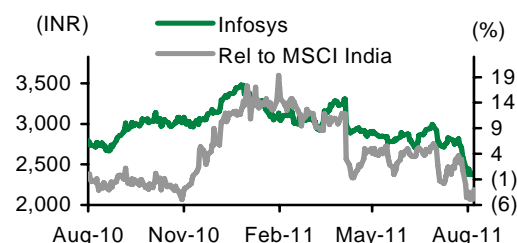
FROM BUY

HOW WE DIFFER FROM THE STREET

	BNP	Consensus	% Diff
Target Price (INR)	2,000.00	3,227.41	(38.0)
EPS 2012 (INR)	135	138	(2.2)
EPS 2013 (INR)	148	165	(10.3)
	Positive	Neutral	Negative
Market Recs.	49	9	3

KEY STOCK DATA

YE Mar (INR m)	2012E	2013E	2014E
Revenue	322,903	359,438	418,646
Rec. net profit	76,858	84,347	97,999
Recurring EPS (INR)	135	148	172
Prior rec. EPS (INR)	136	169	198
Chg. In EPS est. (%)	(1.4)	(12.4)	(13.2)
EPS growth (%)	12.6	9.7	16.2
Recurring P/E (x)	18.2	16.6	14.3
Dividend yield (%)	1.4	1.5	1.8
EV/EBITDA (x)	12.2	10.9	9.1
Price/book (x)	4.5	3.7	3.2
Net debt/Equity	(64.6)	(69.2)	(73.3)
ROE (%)	26.2	24.5	24.0



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(17.0)	(14.2)	(12.6)
Relative to country (%)	(6.7)	(5.5)	(3.2)

Next results	October 2011
Mkt cap (USD m)	30,828
3m avg daily turnover (USD m)	71.7
Free float (%)	84
Major shareholder	Life Insurance Corp. Of India (5%)
12m high/low (INR)	3,481.45/2,374.55
3m historic vol. (%)	28.7
ADR ticker	INFY US
ADR closing price (USD; 16 August 2011)	USD53.22

Sources : Bloomberg consensus; BNP Paribas estimates

RECENT COMPANY & SECTOR RESEARCH

Lacklustre, not appalling	12 Jul 2011
Of change and transition	24 Jun 2011
Rotten Apple evidence?	17 Aug 2011
GOOG-MMI deal and Japan	16 Aug 2011

ADR TICKER: INFY US

CHANGE IN RECOMMENDATION

Not immune to risks

- Downgrade to REDUCE, significant risk to Street FY13-14 EPS
- Infosys will not be immune to likely prolonged macro weakness
- See demand deteriorating by late FY12, cut FY13E EPS by 12%
- Heightened risk aversion could lead to de-rating

Downgrade to REDUCE

We downgrade Infosys to REDUCE (from Buy) and the Indian IT services sector outlook to DETERIORATING. The stock has declined 12% in August alone (vs a 7% drop in the Sensex), but we believe it does not reflect a likely prolonged anaemic macro growth scenario nor the 50% chance of a US recession that our economics team forecasts. We believe a well run company such as Infosys is better prepared now than it was in 2008 to face a recessionary situation, but this does not take away from the fact that in the event of an overall slowdown it will not be unaffected. Bloomberg consensus calls for over 6% q-q revenue growth on average for the rest of FY12, which we see at risk given the new macro data at hand.



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Lowering estimates significantly

We now factor in a q-q flattish June 2012 quarter (1QFY13) and relatively muted quarters on both sides (4QFY12 and 2QFY13). In a deteriorating demand situation, we expect clients to ask for lower pricing, and thus, on a constant-currency basis, see EBIT margin heading lower into FY13. As a result, while we make relatively small revenue and EPS cuts for FY12, we make significant cuts (9-11% revenue, 12-13% EPS) for FY13-14. That said, we believe Infosys with its higher-than-peer EBIT margins is better positioned to protect its earnings than most companies we cover.

Shouldn't lose sight of long-term goals

Longer term, we would keenly watch how Infosys's new vertical-based organisation structure shapes up and the progress it makes on its long-term goal of cutting down headcount dependence and achieving a 1/3-1/3-1/3 revenue mix from transformation, operations and innovation (IP). Peer Tata Consultancy (TCS IN) underwent reorganisation ahead of the downturn in 2008-09 and emerged considerably stronger from it by decentralising decision-making and empowering business unit heads.

Valuation – revisiting our DCF charts

Given heightened macro uncertainty and risk aversion, we expect stocks to trade significantly below the level implied by our DCF model based on long-term average risk assumptions (11.5% WACC, 5% terminal growth). In 2008, large-cap Indian stocks fell as much as 40-65% below our fair value estimates, so we set our TP for Infosys at a 20% discount. Our new TP implies an FY13E P/E of 13.5x. Key risks to TP are: 1) unexpected USD/INR depreciation (as seen in 2008-09) negating our EPS cuts, and 2) less-than-expected deterioration of the macro environment.

RISK EXPERTS

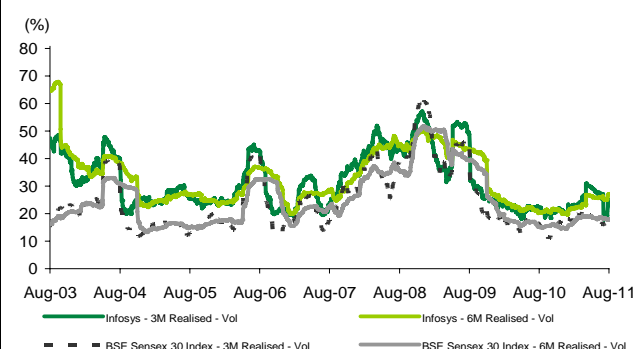
	Base		Worst		Best	
Year-end 31 Mar	2012E	2013E	2012E	2013E	2012E	2013E
USD/INR average	45.24	45.5	44.27	39.80	46.08	50.68
EPS (INR)	134.51	147.62	132.33	128.77	136.27	164.53
Change (%)	—	—	(1.6)	(12.8)	1.3	11.5

Sources: BNP Paribas estimates

Key Earnings Drivers & Sensitivity

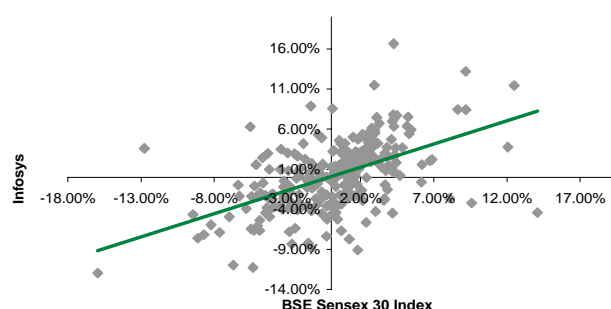
- The key macro factor that can impact Infosys's earnings is currency fluctuation, specifically the USD/INR rate.
- In our best and worst cases, we assume the FY13 average USD/INR rate changes by 10% versus our base case. We calculate that, all else staying the same, this could cause a 12-13% variation to our base-case FY13 EPS.

Infosys and SENSEX Index (3M and 6M realised-vol)



Sources: Bloomberg; BNP Paribas

Regression – Infosys to SENSEX Index



Infosys = $-150 + 0.1431 \cdot \text{SENSEX Index}$
 R Square = 0.2778
 Regression based on 261 observations of 5 years weekly data.
 Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNP Paribas Sector Strategy

Long/short chart



Sources: Bloomberg, BNP Paribas

The risk experts

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process.

FINANCIAL STATEMENTS

Infosys

Profit and Loss (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Revenue	227,420	275,010	322,903	359,438	418,646
Cost of sales ex depreciation	(120,780)	(150,540)	(182,675)	(207,292)	(244,769)
Gross profit ex depreciation	106,640	124,470	140,227	152,146	173,877
Other operating income	0	0	0	0	0
Operating costs	(28,120)	(34,830)	(40,710)	(44,547)	(51,912)
Operating EBITDA	78,520	89,640	99,517	107,600	121,965
Depreciation	(9,420)	(8,620)	(9,171)	(9,880)	(10,893)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	69,100	81,020	90,346	97,720	111,072
Net financing costs	9,900	12,110	16,267	18,034	19,593
Associates	0	0	0	0	0
Recurring non operating income	0	0	0	0	0
Non recurring items	0	0	0	0	0
Profit before tax	79,000	93,130	106,613	115,754	130,666
Tax	(16,810)	(24,900)	(29,754)	(31,407)	(32,666)
Profit after tax	62,190	68,230	76,858	84,347	97,999
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	480	0	0	0	0
Reported net profit	62,670	68,230	76,858	84,347	97,999
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	62,670	68,230	76,858	84,347	97,999

Per share (INR)

Recurring EPS *	109	119	135	148	172
Reported EPS	110	119	135	148	172
DPS	25.14	60.31	34.41	37.75	42.88

Growth

Revenue (%)	4.8	20.9	17.4	11.3	16.5
Operating EBITDA (%)	9.1	14.2	11.0	8.1	13.4
Operating EBIT (%)	7.4	17.3	11.5	8.2	13.7
Recurring EPS (%)	6.2	9.7	12.6	9.7	16.2
Reported EPS (%)	5.0	8.7	12.6	9.7	16.2

Translates to y-y USD revenue growth of 18.2% for FY12 and 10.7% for FY13, on our estimates

Operating performance

Gross margin inc depreciation (%)	42.7	42.1	40.6	39.6	38.9
Operating EBITDA margin (%)	34.5	32.6	30.8	29.9	29.1
Operating EBIT margin (%)	30.4	29.5	28.0	27.2	26.5
Net margin (%)	27.6	24.8	23.8	23.5	23.4
Effective tax rate (%)	21.3	26.7	27.9	27.1	25.0
Dividend payout on recurring profit (%)	23.1	50.5	25.6	25.6	25.0
Interest cover (x)	-	-	-	-	-
Inventory days	0.0	0.0	0.0	0.0	0.0
Debtor days	57.5	54.1	55.9	55.7	52.0
Creditor days	30.4	0.7	0.7	0.6	0.7
Operating ROIC (%)	68.2	71.7	66.7	68.7	75.6
Operating ROIC – WACC (%)	55.2	58.8	53.8	55.7	62.7
ROIC (%)	57.8	55.3	53.6	55.3	61.1
ROIC – WACC (%)	44.8	42.4	40.6	42.4	48.2
ROE (%)	29.6	26.6	26.2	24.5	24.0
ROA (%)	22.6	20.4	19.7	18.6	18.6

We are modeling EBIT margin to be hurt by likely pricing pressure, but expect Infosys to protect earnings better than most peers

* Pre exceptional, pre-goodwill and fully diluted

Sources: Infosys; BNP Paribas estimates

Infosys

Cash Flow (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Recurring net profit	62,670	68,230	76,858	84,347	97,999
Depreciation	9,420	8,620	9,171	9,880	10,893
Associates & minorities	0	0	0	0	0
Other non-cash items	(1,230)	(3,660)	2,270	0	0
Recurring cash flow	70,860	73,190	88,299	94,227	108,892
Change in working capital	(470)	(14,120)	(7,156)	(3,086)	(1,461)
Capex - maintenance	0	0	0	0	0
Capex – new investment	(6,570)	(13,010)	(10,628)	(10,396)	(12,559)
Free cash flow to equity	63,820	46,060	70,516	80,745	94,872
Net acquisitions & disposals	(1,730)	(20)	0	0	0
Dividends paid	(15,690)	(36,650)	(36,283)	(25,232)	(28,665)
Non recurring cash flows	(35,580)	35,340	920	0	0
Net cash flow	10,820	44,730	35,153	55,513	66,207
Equity finance	890	240	290	0	0
Debt finance	0	0	0	0	0
Movement in cash	11,710	44,970	35,443	55,513	66,207

Per share (INR)

Recurring cash flow per share	124	128	155	165	191
FCF to equity per share	112	80.64	123	141	166

Balance Sheet (INR m)

Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Working capital assets	50,710	74,490	84,055	88,593	92,690
Working capital liabilities	(31,930)	(36,230)	(41,080)	(43,199)	(45,895)
Net working capital	18,780	38,260	42,975	45,394	46,794
Tangible fixed assets	44,390	48,440	49,977	50,493	52,159
Operating invested capital	63,170	86,700	92,951	95,886	98,953
Goodwill	8,290	8,250	8,260	8,260	8,260
Other intangible assets	560	480	460	460	460
Investments	380	230	210	210	210
Other assets	13,600	12,640	13,521	14,188	14,248
Invested capital	86,000	108,300	115,402	119,004	122,132
Cash & equivalents	(158,190)	(168,100)	(202,853)	(258,366)	(324,573)
Short term debt	0	0	0	0	0
Long term debt *	0	0	0	0	0
Net debt	(158,190)	(168,100)	(202,853)	(258,366)	(324,573)
Deferred tax	1,140	0	0	0	0
Other liabilities	2,320	3,370	4,100	4,100	4,100
Total equity	240,730	273,030	314,155	373,270	442,605
Minority interests	0	0	0	0	0
Invested capital	86,000	108,300	115,402	119,004	122,132

* includes convertibles and preferred stock which is being treated as debt

Per share (INR)

Book value per share	422	478	550	653	775
Tangible book value per share	406	463	535	638	759

Financial strength

Net debt/equity (%)	(65.7)	(61.6)	(64.6)	(69.2)	(73.3)
Net debt/total assets (%)	(57.3)	(53.8)	(56.5)	(61.4)	(65.9)
Current ratio (x)	6.5	6.7	7.0	8.0	9.1
CF interest cover (x)	-	-	-	-	-

Valuation	2010A	2011A	2012E	2013E	2014E
Recurring P/E (x) *	22.5	20.5	18.2	16.6	14.3
Recurring P/E @ target price (x) *	18.4	16.7	14.9	13.5	11.7
Reported P/E (x)	22.3	20.5	18.2	16.6	14.3
Dividend yield (%)	1.0	2.5	1.4	1.5	1.8
P/CF (x)	19.7	19.1	15.8	14.8	12.8
P/FCF (x)	21.9	30.4	19.8	17.3	14.7
Price/book (x)	5.8	5.1	4.5	3.7	3.2
Price/tangible book (x)	6.0	5.3	4.6	3.8	3.2
EV/EBITDA (x) **	16.1	13.8	12.2	10.9	9.1
EV/EBITDA @ target price (x) **	12.8	10.9	9.6	8.5	7.0
EV/invested capital (x)	14.4	11.4	10.4	9.6	8.8

* Pre exceptional, pre-goodwill and fully diluted

** EBITDA includes associate income and recurring non-operating income

Sources: Infosys; BNP Paribas estimates

High cash balance likely to be used for niche acquisitions



Wipro Ltd WPRO IN

INDIA / SOFTWARE & SERVICES

 TARGET
 PRIOR TP
 CLOSE
 UP/DOWNSIDE

 INR270.00
 INR530.00
 INR344.30
 -21.6%

REDUCE

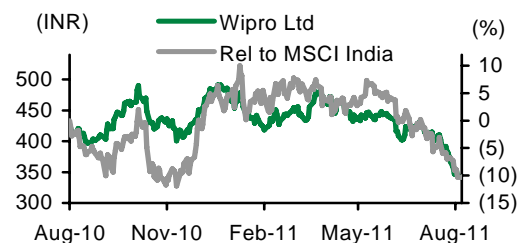
FROM BUY

HOW WE DIFFER FROM THE STREET

	BNP	Consensus	% Diff
Target Price (INR)	270.00	441.53	(38.9)
EPS 2012 (INR)	21.87	22.98	(4.8)
EPS 2013 (INR)	22.72	26.76	(15.2)
	Positive	Neutral	Negative
Market Recs.	22	27	9

KEY STOCK DATA

YE Mar (INR m)	2012E	2013E	2014E
Revenue	359,058	382,916	445,417
Rec. net profit	53,846	55,764	64,589
Recurring EPS (INR)	21.87	22.72	26.32
Prior rec. EPS (INR)	23.76	29.91	34.82
Chg. In EPS est. (%)	(8.0)	(24.0)	(24.4)
EPS growth (%)	1.9	3.9	15.8
Recurring P/E (x)	15.7	15.2	13.1
Dividend yield (%)	1.6	1.8	2.2
EV/EBITDA (x)	10.9	10.2	8.5
Price/book (x)	3.0	2.7	2.3
Net debt/Equity	(25.0)	(30.6)	(36.1)
ROE (%)	20.8	18.8	19.1



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(17.1)	(18.0)	(17.4)
Relative to country (%)	(6.7)	(10.1)	(8.0)

Next results	October 2011
Mkt cap (USD m)	18,510
3m avg daily turnover (USD m)	10.9
Free float (%)	21
Major shareholder	Azim Premji (79%)
12m high/low (INR)	491.35/340.40
3m historic vol. (%)	24.7
ADR ticker	WIT US
ADR closing price (USD; 16 August 2011)	10.31

Sources : Bloomberg consensus; BNP Paribas estimates

RECENT COMPANY & SECTOR RESEARCH

Story little changed	21 Jul 2011
It's a waiting game.....	28 Apr 2011
Rotten Apple evidence?	17 Aug 2011
GOOG-MMI deal and Japan	16 Aug 2011

ADR TICKER: WIT US

CHANGE IN RECOMMENDATION

Demand stress test ahead

- Downgrade to REDUCE, significant risk to Street FY13-14 EPS
- Demand likely to deteriorate by late FY12, cut FY13E EPS by 24%
- Turnaround running behind schedule, macro adds more stress
- Heightened risk aversion could lead to de-rating of valuation

Downgrade to REDUCE

We downgrade Wipro to REDUCE (from Buy) and the India IT services sector outlook to DETERIORATING. Despite the stock declining by 11% in August alone (vs a 7% drop of the Sensex), we think it is yet to reflect a likely prolonged anaemic macro growth scenario and 50% chance of a US recession that our economics team forecasts. We cut our FY12-13 revenue estimates by 3-15% based on our expectation that demand will worsen around the December 2011 quarter.

Moreover, we believe some of the revenue cuts will be led a loss of pricing and we see Wipro's already lower-than-peer EBIT margins going down further, leading to a significant EPS downgrade. Our FY12-13 EPS estimates reduce by 8-24% and are 5-15% below Bloomberg consensus.

Weaker demand scenario will test turnaround plans While we have been hopeful of an operational turnaround by 2HFY12 after management and organisational changes earlier this year, we are yet to see enough positive signs that should have surfaced by this time. Among the positives are an increase in the USD100m+ accounts from one in 3QFY11 to four in 1QFY12 and a likely decline in employee attrition to sub-20% by 2QFY12, from 25% in 1Q. However, of the company identified "momentum verticals" (together 64% of revenue), only energy & utilities (+14.4% q-q) was strong in 1Q, while financial services (+0.5% q-q), retail (-3.6% q-q) and healthcare (-3.2% q-q) are yet to show the promise we were hoping for. Also, the 2QFY12 q-q services revenue growth guidance of 2-4% (0-2% organic) which was given under more "normal" demand conditions looks muted and suggests there is still much more to be done before Wipro matches peer growth levels. We believe a worsened demand scenario could further test the turnaround plans.

Valuation and target price derivation

Given heightened macro uncertainty and risk aversion, we expect stocks to trade significantly below the level implied by our DCF model based on long-term average risk assumptions. In 2008, large-cap Indian IT stocks fell as much as 40-65% below our fair value estimates, so we set our TP for Wipro at a 25% discount to our DCF value of INR270.00 (from INR530.00). Our new TPs for Wipro implies an FY13E P/E multiple of 11.9x. Key risks to TP are: 1) unexpected USD/INR depreciation (as seen in 2008-09) that negates our EPS cuts, and 2) less-than-expected deterioration of the macro environment.



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RISK EXPERTS

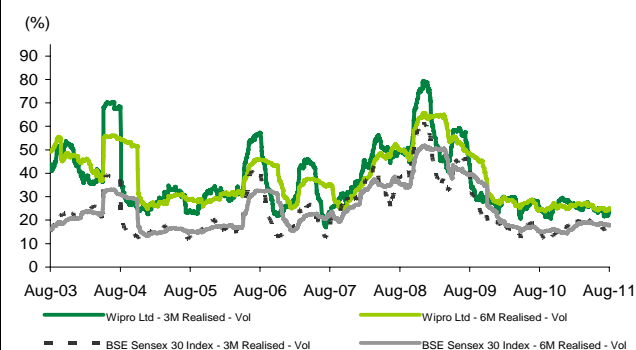
	Base		Worst		Best	
Year-end 31 Mar	2012E	2013E	2012E	2013E	2012E	2013E
USD/INR average	45.22	45.50	44.27	39.82	46.04	50.67
EPS (INR)	21.87	22.72	21.50	18.89	22.15	26.14
Change (%)	—	—	(1.7)	(16.9)	1.3	15.0

Sources: BNP Paribas estimates

Key Earnings Drivers & Sensitivity

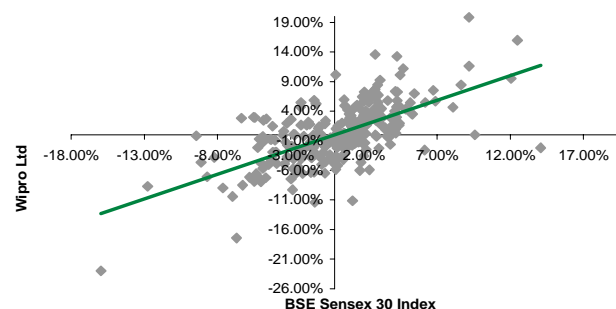
- The key macro factor that can impact Wipro's earnings is currency fluctuation, specifically the USD/INR rate.
- In our best and worst cases, we assume the FY13 average USD/INR rate changes by 10% versus our base case. We calculate that, all else staying the same, this could cause a 15-17% variation to our base-case FY13E EPS.

Wipro Ltd and SENSEX Index (3M and 6M realised-vol)



Sources: Bloomberg; BNP Paribas

Regression – Wipro Ltd to SENSEX Index



Wipro Ltd = $-38 + 0.0232 \times \text{SENSEX Index}$
 R Square = 0.4123
 Regression based on 261 observations of 5 years weekly data.
 Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNP Paribas Sector Strategy

Long/short chart



Sources: Bloomberg, BNP Paribas

The risk experts

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process.

FINANCIAL STATEMENTS

Wipro Ltd

Profit and Loss (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Revenue	271,957	310,542	359,058	382,916	445,417
Cost of sales ex depreciation	(178,468)	(204,597)	(244,060)	(263,670)	(309,346)
Gross profit ex depreciation	93,489	105,945	114,998	119,246	136,071
Other operating income	0	0	0	0	0
Operating costs	(33,814)	(40,066)	(43,611)	(45,184)	(50,970)
Operating EBITDA	59,675	65,879	71,387	74,062	85,100
Depreciation	(7,831)	(8,211)	(9,611)	(10,331)	(11,190)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	51,844	57,668	61,776	63,731	73,910
Net financing costs	3,566	5,367	5,540	6,889	8,096
Associates	0	0	0	0	0
Recurring non operating income	0	0	0	0	0
Non recurring items	0	0	0	0	0
Profit before tax	55,410	63,035	67,316	70,620	82,006
Tax	(9,294)	(9,714)	(13,274)	(14,660)	(17,221)
Profit after tax	46,116	53,321	54,042	55,960	64,785
Minority interests	(185)	(344)	(196)	(196)	(196)
Preferred dividends	0	0	0	0	0
Other items	0	0	0	0	0
Reported net profit	45,931	52,977	53,846	55,764	64,589
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	45,931	52,977	53,846	55,764	64,589

Per share (INR)

Recurring EPS *	18.73	21.46	21.87	22.72	26.32
Reported EPS	18.91	21.74	22.07	22.85	26.47
DPS	3.63	6.04	5.67	6.08	7.41

Growth

Revenue (%)	5.9	14.2	15.6	6.6	16.3
Operating EBITDA (%)	18.8	10.4	8.4	3.7	14.9
Operating EBIT (%)	19.7	11.2	7.1	3.2	16.0
Recurring EPS (%)	17.3	14.6	1.9	3.9	15.8
Reported EPS (%)	18.2	15.0	1.5	3.6	15.8

Translates into USD services revenue growth of 12.3% in FY12 and 3.5% in FY13, on our forecasts

Operating performance

Gross margin inc depreciation (%)	31.5	31.5	29.4	28.4	28.0
Operating EBITDA margin (%)	21.9	21.2	19.9	19.3	19.1
Operating EBIT margin (%)	19.1	18.6	17.2	16.6	16.6
Net margin (%)	16.9	17.1	15.0	14.6	14.5
Effective tax rate (%)	16.8	15.4	19.7	20.8	21.0
Dividend payout on recurring profit (%)	19.4	28.1	25.9	26.7	28.2
Interest cover (x)	-	-	-	-	-
Inventory days	15.9	15.7	16.1	17.0	15.8
Debtor days	66.8	66.1	66.0	67.1	62.3
Creditor days	82.2	73.9	69.1	71.6	67.7
Operating ROIC (%)	38.9	36.9	34.7	32.2	34.9
Operating ROIC – WACC (%)	25.2	23.2	21.1	18.6	21.2
ROIC (%)	21.1	20.9	19.8	18.7	20.7
ROIC – WACC (%)	7.4	7.2	6.1	5.0	7.0
ROE (%)	26.8	24.3	20.8	18.8	19.1
ROA (%)	14.2	14.2	12.7	11.7	12.4

We are modeling operating margins to be hurt by likely pricing pressure

* Pre exceptional, pre-goodwill and fully diluted

Sources: Wipro Ltd; BNP Paribas estimates

Wipro Ltd

Cash Flow (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Recurring net profit	45,931	52,977	53,846	55,764	64,589
Depreciation	7,831	8,211	9,611	10,331	11,190
Associates & minorities	185	0	147	196	196
Other non-cash items	11,450	9,920	(5,281)	(6,289)	(7,296)
Recurring cash flow	65,397	71,108	58,323	60,002	68,679
Change in working capital	(14,399)	(30,671)	(12,513)	(10,652)	(8,254)
Capex - maintenance	0	0	0	0	0
Capex – new investment	(12,631)	(12,211)	(10,842)	(10,794)	(13,363)
Free cash flow to equity	38,367	28,226	34,968	38,556	47,063
Net acquisitions & disposals	(4,399)	(140)	(7,188)	0	0
Dividends paid	(5,381)	(13,182)	(16,192)	(17,343)	(21,159)
Non recurring cash flows	(20,524)	(11,251)	(12,382)	0	0
Net cash flow	8,063	3,653	(794)	21,213	25,904
Equity finance	66	25	18	0	0
Debt finance	8,453	(6,858)	6,790	289	5,796
Movement in cash	16,582	(3,180)	6,014	21,502	31,700

Per share (INR)

Recurring cash flow per share	26.92	29.19	23.90	24.59	28.15
FCF to equity per share	15.80	11.58	14.33	15.80	19.29

Balance Sheet (INR m)

Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Working capital assets	105,879	121,891	143,452	154,703	168,658
Working capital liabilities	(61,208)	(67,575)	(73,279)	(75,956)	(82,152)
Net working capital	44,671	54,316	70,173	78,747	86,505
Tangible fixed assets	53,458	55,094	56,440	56,903	59,075
Operating invested capital	98,129	109,410	126,613	135,649	145,580
Goodwill	53,802	54,818	60,460	60,460	60,460
Other intangible assets	4,011	3,551	4,946	4,946	4,946
Investments	3,546	5,977	6,535	6,535	6,535
Other assets	13,934	19,689	22,505	24,505	25,005
Invested capital	173,422	193,445	221,059	232,095	242,526
Cash & equivalents	(95,298)	(110,423)	(125,627)	(147,129)	(178,829)
Short term debt	44,404	33,043	37,130	33,130	32,130
Long term debt *	18,107	19,759	18,717	16,717	16,217
Net debt	(32,787)	(57,621)	(69,780)	(97,282)	(130,482)
Deferred tax	380	301	858	858	858
Other liabilities	9,280	10,394	10,945	10,867	10,872
Total equity	196,112	239,680	278,138	316,559	359,989
Minority interests	437	691	898	1,094	1,290
Invested capital	173,422	193,445	221,059	232,095	242,526

* includes convertibles and preferred stock which is being treated as debt

Per share (INR)

Book value per share	80.74	98.37	114	130	148
Tangible book value per share	56.94	74.42	87.19	103	121

Financial strength

Net debt/equity (%)	(16.7)	(24.0)	(25.0)	(30.6)	(36.1)
Net debt/total assets (%)	(9.9)	(15.5)	(16.6)	(21.4)	(25.9)
Current ratio (x)	1.9	2.3	2.4	2.8	3.0
CF interest cover (x)	-	-	-	-	-

Valuation	2010A	2011A	2012E	2013E	2014E
Recurring P/E (x) *	18.4	16.0	15.7	15.2	13.1
Recurring P/E @ target price (x) *	14.4	12.6	12.3	11.9	10.3
Reported P/E (x)	18.2	15.8	15.6	15.1	13.0
Dividend yield (%)	1.1	1.8	1.6	1.8	2.2
P/CF (x)	12.8	11.8	14.4	14.0	12.2
P/FCF (x)	21.8	29.7	24.0	21.8	17.9
Price/book (x)	4.3	3.5	3.0	2.7	2.3
Price/tangible book (x)	6.0	4.6	3.9	3.3	2.9
EV/EBITDA (x) **	13.7	12.0	10.9	10.2	8.5
EV/EBITDA @ target price (x) **	10.6	9.3	8.3	7.8	6.4
EV/invested capital (x)	4.6	4.0	3.5	3.2	2.9

* Pre exceptional, pre-goodwill and fully diluted

** EBITDA includes associate income and recurring non-operating income

Sources: Wipro Ltd; BNP Paribas estimates



HCL Technologies HCLT IN

INDIA / SOFTWARE & SERVICES

 TARGET
 PRIOR TP
 CLOSE
 UP/DOWNSIDE

 INR300.00
 INR600.00
 INR423.20
 -29.1%

REDUCE

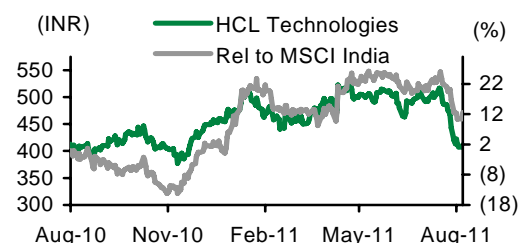
FROM BUY

HOW WE DIFFER FROM THE STREET

	BNP	Consensus	% Diff
Target Price (INR)	300.00	571.09	(47.5)
EPS 2012 (INR)	29.20	31.16	(6.3)
EPS 2013 (INR)	30.45	38.30	(20.5)
	Positive	Neutral	Negative
Market Recs.	47	9	6

KEY STOCK DATA

YE Jun (INR m)	2012E	2013E	2014E
Revenue	192,088	209,391	247,448
Rec. net profit	20,537	21,635	26,307
Recurring EPS (INR)	29.20	30.45	36.66
Prior rec. EPS (INR)	32.07	40.65	-
Chg. In EPS est. (%)	(9.0)	(25.1)	N/A
EPS growth (%)	26.9	4.3	20.4
Recurring P/E (x)	14.5	13.9	11.5
Dividend yield (%)	2.1	2.4	2.6
EV/EBITDA (x)	8.8	8.3	6.8
Price/book (x)	3.0	2.6	2.3
Net debt/Equity	(8.4)	(12.8)	(16.3)
ROE (%)	22.5	20.5	21.7



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(16.5)	(16.7)	1.8
Relative to country (%)	(6.2)	(7.2)	11.1

Next results	October 2011
Mkt cap (USD m)	6,437
3m avg daily turnover (USD m)	8.5
Free float (%)	21
Major shareholder	Slocum Investments (47%)
12m high/low (INR)	522.85/377.00
3m historic vol. (%)	31.3
ADR ticker	-
ADR closing price (USD)	-

Sources : Bloomberg consensus; BNP Paribas estimates

RECENT COMPANY & SECTOR RESEARCH

Story stays on the margins	27 Jul 2011
Margin concerns receding	21 Apr 2011
Rotten Apple evidence?	17 Aug 2011
GOOG-MMI deal and Japan	16 Aug 2011

INDUSTRY OUTLOOK ↓

CHANGE IN RECOMMENDATION

Demand risk ahead

- Downgrade to REDUCE, significant risk to Street FY12-13 EPS
- See demand deteriorating by late FY12, cut FY13E EPS by 25%
- Margin comfort less now, weak demand could hurt
- Heightened risk aversion could lead to valuation de-rating

Downgrade to REDUCE

We downgrade HCL Tech to REDUCE (from Buy) and the Indian IT services outlook to DETERIORATING. The stock has declined 14% in August alone (vs a 7% drop in the Sensex), but we believe it still does not reflect a likely prolonged anaemic macro growth scenario nor the 50% chance of a US recession that our economics team forecasts. HCL Tech has consistently reported above-peer group revenue growth in recent quarters and 20 new transformational deals signed in 4Q suggest a strong revenue pipeline.

However, should the macro environment worsen as we expect it to, we would not be surprised to see delays in deal ramp-ups. Moreover, the 4QFY11 results have effectively ended Street's hopes of continued margin expansion in FY12. In fact, we believe that likely pricing pressure and delays in project starts may actually lead to a further decline in HCL Tech's already lower-than-peers EBIT margin in FY13. This and our 14% revenue cuts lead to our 25% EPS downgrade for FY13.

Transformation yes, but margin issue needs addressing. HCL Tech is undergoing a positive long-term transformation. After the revamp of its BPO business in 2012, the company will likely have the most balanced portfolio among peers with a healthy mix of enterprise solutions, applications, infrastructure services, and engineering services. About 28% of revenue now comes from focus verticals such as media and life sciences (vs 17% in FY07) and this has helped offset persistent telecom revenue weakness. Further, the company has reduced its client concentration risk (top-10 clients contribute 35% of revenue, vs 51% in FY07). However, after the dip in FY11, HCL Tech's EBIT margin is 8-16ppt below peers'. Therefore, growth has come at a price and possible pricing pressure ahead could further alter HCL Tech's margin profile.

Valuation and target price derivation

Given heightened macro uncertainty and risk aversion, we expect the stocks to trade significantly below the level implied by our DCF model based on long-term average risk assumptions. In 2008, large-cap Indian IT stocks fell as much as 40-65% below our fair value estimates, so we set our TP for HCL Tech at a 25% discount to our DCF value. Our new TP implies an FY13E P/E of 9.9x. Key risks to our TP are: 1) unexpected USD/INR depreciation (as seen in 2008-09) that negates our EPS cuts and 2) less-than-expected deterioration of the macro environment.



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RISK EXPERTS

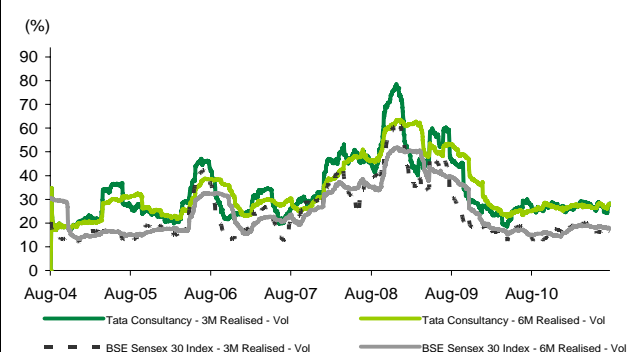
	Base		Worst		Best	
Year-end 30 Jun	2012E	2013E	2012E	2013E	2012E	2013E
USD/INR average	45.50	45.50	41.85	37.95	48.16	53.53
EPS (INR)	29.20	30.45	26.24	21.67	31.77	39.87
Change (%)	—	—	(10.1)	(28.8)	8.8	30.9

Sources: BNP Paribas estimates

Key Earnings Drivers & Sensitivity

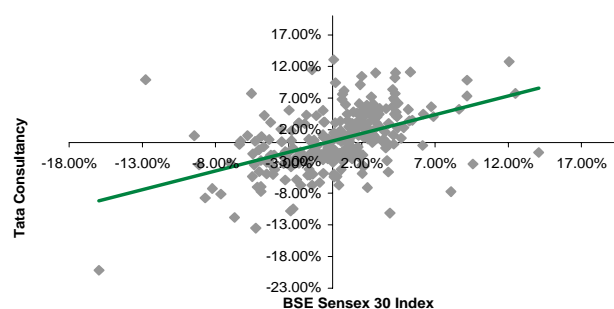
- The key macro factor that can impact Infosys's earnings is currency fluctuation, specifically the USD/INR rate.
- In our best and worst cases, we assume the FY13 average USD/INR rate changes by 10% versus our base case. We calculate that, all else staying the same, this could cause a 29-31% variation to our base-case FY13 EPS.

Tata Consultancy and SENSEX Index (3M and 6M realised-vol)



Sources: Bloomberg; BNP Paribas

Regression – Tata Consultancy to SENSEX Index



Tata Consultancy = $-374 + 0.0647 \times \text{SENSEX Index}$
 R Square = 0.2339
 Regression based on 261 observations of 5 years weekly data.
 Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNP Paribas Sector Strategy

Long/short chart



Sources: Bloomberg, BNP Paribas

The risk experts

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process.

FINANCIAL STATEMENTS

HCL Technologies

Profit and Loss (INR m) Year Ending Jun	2010A	2011A	2012E	2013E	2014E
Revenue	125,650	158,555	192,088	209,391	247,448
Cost of sales ex depreciation	(81,957)	(107,921)	(132,931)	(147,744)	(174,623)
Gross profit ex depreciation	43,693	50,634	59,157	61,647	72,825
Other operating income	0	0	0	0	0
Operating costs	(17,964)	(23,443)	(26,633)	(27,615)	(31,861)
Operating EBITDA	25,729	27,191	32,524	34,032	40,964
Depreciation	(5,010)	(4,919)	(5,483)	(6,426)	(6,783)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	20,719	22,272	27,042	27,606	34,181
Net financing costs	(5,289)	(544)	1,061	1,141	328
Associates	0	0	0	0	0
Recurring non operating income	0	0	0	0	0
Non recurring items	0	0	0	0	0
Profit before tax	15,430	21,728	28,103	28,747	34,509
Tax	(2,403)	(4,808)	(6,878)	(6,457)	(7,592)
Profit after tax	13,027	16,920	21,225	22,290	26,917
Minority interests	2	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	(874)	(892)	(687)	(655)	(610)
Reported net profit	12,155	16,028	20,537	21,635	26,307
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	12,155	16,028	20,537	21,635	26,307

Per share (INR)

Recurring EPS *	17.63	23.01	29.20	30.45	36.66
Reported EPS	18.04	23.45	29.75	31.03	37.36
DPS	4.00	7.50	9.02	10.03	11.00

Growth

Revenue (%)	18.6	26.2	21.1	9.0	18.2
Operating EBITDA (%)	11.5	5.7	19.6	4.6	20.4
Operating EBIT (%)	11.6	7.5	21.4	2.1	23.8
Recurring EPS (%)	(1.1)	30.5	26.9	4.3	20.4
Reported EPS (%)	0.5	30.0	26.9	4.3	20.4

Implies USD revenue growth of 19.1% for FY12E and 9% for FY13E

Operating performance

Gross margin inc depreciation (%)	30.8	28.8	27.9	26.4	26.7
Operating EBITDA margin (%)	20.5	17.1	16.9	16.3	16.6
Operating EBIT margin (%)	16.5	14.0	14.1	13.2	13.8
Net margin (%)	9.7	10.1	10.7	10.3	10.6
Effective tax rate (%)	15.6	22.1	24.5	22.5	22.0
Dividend payout on recurring profit (%)	22.7	32.6	30.9	32.9	30.0
Interest cover (x)	3.9	40.9	-	-	-
Inventory days	0.0	0.0	0.0	0.0	0.0
Debtor days	83.6	74.3	69.7	73.4	69.9
Creditor days	0.0	0.0	0.0	0.0	0.0
Operating ROIC (%)	58.5	48.5	47.7	41.8	44.1
Operating ROIC – WACC (%)	42.7	32.7	31.9	26.0	28.3
ROIC (%)	17.9	17.6	19.4	18.3	20.7
ROIC – WACC (%)	2.1	1.7	3.6	2.5	4.9
ROE (%)	19.1	20.7	22.5	20.5	21.7
ROA (%)	12.0	11.6	13.0	12.5	13.9

Tax rates increase as government-granted tax holidays expire

* Pre exceptional, pre-goodwill and fully diluted

Sources: HCL Technologies; BNP Paribas estimates

HCL Technologies

Cash Flow (INR m)					
Year Ending Jun	2010A	2011A	2012E	2013E	2014E
Recurring net profit	12,155	16,028	20,537	21,635	26,307
Depreciation	5,010	4,919	5,483	6,426	6,783
Associates & minorities	0	0	0	0	0
Other non-cash items	874	892	710	655	610
Recurring cash flow	18,039	21,839	26,730	28,716	33,700
Change in working capital	1,449	(4,529)	(2,121)	(3,588)	(5,289)
Capex - maintenance	0	0	0	0	0
Capex – new investment	(6,116)	(7,702)	(10,275)	(10,779)	(12,491)
Free cash flow to equity	13,372	9,607	14,334	14,348	15,920
Net acquisitions & disposals	(506)	(549)	0	0	0
Dividends paid	(3,149)	(5,123)	(7,288)	(8,178)	(9,063)
Non recurring cash flows	(928)	164	0	0	0
Net cash flow	8,789	4,099	7,046	6,170	6,857
Equity finance	1,040	891	0	0	0
Debt finance	(4,679)	(4,865)	(8,000)	(2,000)	0
Movement in cash	5,150	125	(954)	4,170	6,857

Per share (INR)

Recurring cash flow per share	26.77	31.95	38.72	41.18	47.85
FCF to equity per share	19.85	14.06	20.76	20.58	22.61

Balance Sheet (INR m)

Year Ending Jun	2010A	2011A	2012E	2013E	2014E
Working capital assets	39,341	46,611	53,508	61,260	69,067
Working capital liabilities	(31,329)	(33,763)	(39,925)	(45,796)	(50,914)
Net working capital	8,012	12,848	13,582	15,464	18,153
Tangible fixed assets	18,486	22,165	27,382	32,118	38,186
Operating invested capital	26,498	35,013	40,965	47,582	56,339
Goodwill	0	0	0	0	0
Other intangible assets	43,122	41,878	41,453	41,071	40,712
Investments	707	2,780	2,780	2,780	2,780
Other assets	9,640	10,392	11,778	13,485	16,084
Invested capital	79,967	90,063	96,976	104,918	115,915
Cash & equivalents	(24,419)	(22,409)	(21,455)	(25,625)	(32,481)
Short term debt	0	0	0	0	0
Long term debt *	26,632	21,240	13,240	11,240	11,240
Net debt	2,213	(1,169)	(8,215)	(14,385)	(21,241)
Deferred tax	0	0	0	0	0
Other liabilities	7,386	6,887	6,887	6,887	6,887
Total equity	70,368	84,345	98,304	112,416	130,269
Minority interests	0	0	0	0	0
Invested capital	79,967	90,063	96,976	104,918	115,915

* includes convertibles and preferred stock which is being treated as debt

Per share (INR)

Book value per share	104	123	142	161	185
Tangible book value per share	40.44	62.13	82.35	102	127

Financial strength

Net debt/equity (%)	3.1	(1.4)	(8.4)	(12.8)	(16.3)
Net debt/total assets (%)	1.6	(0.8)	(5.2)	(8.2)	(10.7)
Current ratio (x)	2.0	2.0	1.9	1.9	2.0
CF interest cover (x)	4.7	32.8	-	-	-

Valuation	2010A	2011A	2012E	2013E	2014E
Recurring P/E (x) *	24.0	18.4	14.5	13.9	11.5
Recurring P/E @ target price (x) *	17.0	13.0	10.3	9.9	8.2
Reported P/E (x)	23.5	18.0	14.2	13.6	11.3
Dividend yield (%)	0.9	1.8	2.1	2.4	2.6
P/CF (x)	15.8	13.2	10.9	10.3	8.8
P/FCF (x)	21.3	30.1	20.4	20.6	18.7
Price/book (x)	4.1	3.4	3.0	2.6	2.3
Price/tangible book (x)	10.5	6.8	5.1	4.1	3.3
EV/EBITDA (x) **	11.3	10.6	8.8	8.3	6.8
EV/EBITDA @ target price (x) **	8.1	7.5	6.2	5.8	4.7
EV/invested capital (x)	3.6	3.2	2.9	2.7	2.4

* Pre exceptional, pre-goodwill and fully diluted

** EBITDA includes associate income and recurring non-operating income

Sources: HCL Technologies; BNP Paribas estimates



MindTree Ltd MTCL IN

INDIA / SOFTWARE & SERVICES

 TARGET
 PRIOR TP
 CLOSE
 UP/DOWNSIDE

 INR270.00
 INR400.00
 INR358.15
 -24.6%

REDUCE

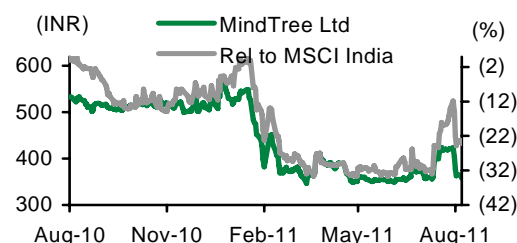
FROM HOLD

HOW WE DIFFER FROM THE STREET

	BNP	Consensus	% Diff
Target Price (INR)	270.00	430.09	(37.2)
EPS 2012 (INR)	40.33	36.53	10.4
EPS 2013 (INR)	32.68	43.62	(25.1)
	Positive	Neutral	Negative
Market Recs.	11	8	8

KEY STOCK DATA

YE Mar (INR m)	2012E	2013E	2014E
Revenue	17,602	19,183	22,639
Rec. net profit	1,644	1,358	1,642
Recurring EPS (INR)	40.33	32.68	39.12
Prior rec. EPS (INR)	32.72	40.87	47.16
Chg. In EPS est. (%)	23.3	(20.0)	(17.1)
EPS growth (%)	62.1	(19.0)	19.7
Recurring P/E (x)	8.9	11.0	9.2
Dividend yield (%)	0.8	1.1	1.3
EV/EBITDA (x)	4.9	4.5	3.5
Price/book (x)	1.6	1.4	1.3
Net debt/Equity	(28.5)	(33.5)	(38.4)
ROE (%)	19.3	13.8	14.7



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	8.2	11.6	(24.9)
Relative to country (%)	19.6	25.4	(13.6)

Next results	October 2011
Mkt cap (USD m)	319
3m avg daily turnover (USD m)	2.3
Free float (%)	100
Major shareholder	Walden Software (10%)
12m high/low (INR)	563.35/345.85
3m historic vol. (%)	33.6
ADR ticker	-
ADR closing price (USD)	-

Sources : Bloomberg consensus; BNP Paribas estimates

RECENT COMPANY & SECTOR RESEARCH

On the mend?	21 Jul 2011
Time to turn the page	2 Feb 2011
Rotten Apple evidence?	17 Aug 2011
GOOG-MMI deal and Japan	16 Aug 2011

INDUSTRY OUTLOOK ↓

CHANGE IN RECOMMENDATION

Tough road ahead

- Downgrade to REDUCE, significant risk to Street EPS
- Operational improvements may not offset macro hurdles
- Price losses could put margins under further pressure
- Heightened risk aversion likely for mid and small caps

Downgrade to REDUCE

We downgrade MindTree to REDUCE (from Hold) and the Indian IT services sector outlook to DETERIORATING. Even though the company has high near-term revenue visibility, we believe the environment could worsen by late 2011 given our economists forecast of a 50% probability of a US recession over the next six months. We also believe the pricing could be hurt, while lower visibility could reduce fresh graduate hiring – both of which could adversely impact MindTree's margin improvement

programme. In recent investor meetings that we hosted, the CEO was not concerned about the deteriorating macro picture then, but has since said that the company was assessing the situation given the extreme nature of recent events.

Back-to-basics programme only just started delivering. Over the past few months, MindTree has emerged strongly by focussing on its key clients and exiting smaller sub-verticals. This comes after about a year of strategic mis-steps (venturing into handset design and later abandoning it, ex-Chairman resigning). The company reported a solid 1QFY12 and management sounded upbeat on the business and remained confident of beating the FY12 industry revenue growth (16-18%, as per Nasscom). MindTree's new revenue is coming from European clients and three recent large infrastructure management deals (together USD100m in size over five years) that are ramping up.

However, demand weakness could hurt progress. During the previous downturn in 2008-09, MindTree reported successive quarters of 8-9% q-q USD revenue declines on a combination of pricing and volume cuts. We fear that a repeat of such a situation could hurt the company's already low margins (~11% EBITDA in 1Q) even more and cause considerable damage to valuations. We cut our FY13-14 revenue estimates by 10-11% and our EPS estimates by 17-20%.

Valuation and target price derivation

In 2008-09, FY10 P/E multiples contracted 30-50% for large-cap Indian IT stocks, while those of some mid-cap companies fell more to fundamentally unjustifiable levels. Given likely investor risk aversion ahead, we believe there is a strong-enough reason to avoid smaller Indian IT names. To capture this extra risk, we increase the beta in our DCF model to 1.1, from 1.3. As a result of this and our estimate cuts, our TP falls to INR270 (from INR400), which implies an FY13E P/E of 8.3x. Risks: unexpected USD/INR weakness, less-than-expected deterioration of the macro environment.



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RISK EXPERTS

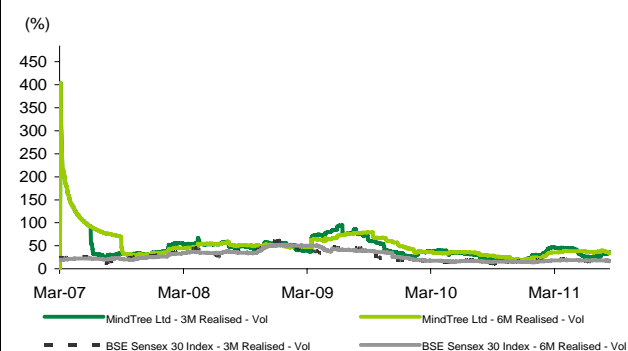
	— Base —		— Worst —		— Best —	
Year-end 31 Mar	2012E	2013E	2012E	2013E	2012E	2013E
USD/INR average	45.20	45.50	44.24	39.80	46.22	50.80
EPS (INR)	40.33	32.68	36.53	9.37	44.41	54.39
Change (%)	—	—	(9.4)	(71.3)	10.1	66.4

Sources: BNP Paribas estimates

Key Earnings Drivers & Sensitivity

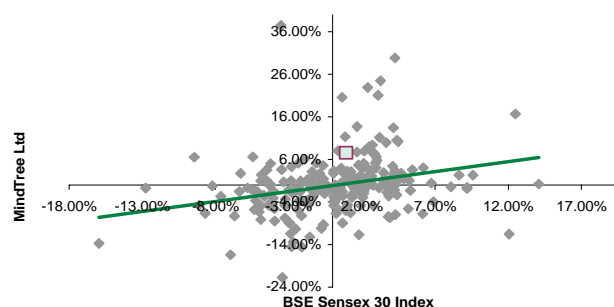
- The key macro factor that can impact MindTree's earnings is currency fluctuation, specifically the USD/INR rate.
- In our best and worst cases, we assume the FY13 average USD/INR rate changes by 10% versus our base case. We calculate that, all else staying the same, this could cause a more than a 60% variation to our base-case FY13 EPS.

MindTree Ltd and SENSEX Index (3M and 6M realised-vol)



Sources: Bloomberg; BNP Paribas

Regression – MindTree Ltd to SENSEX Index



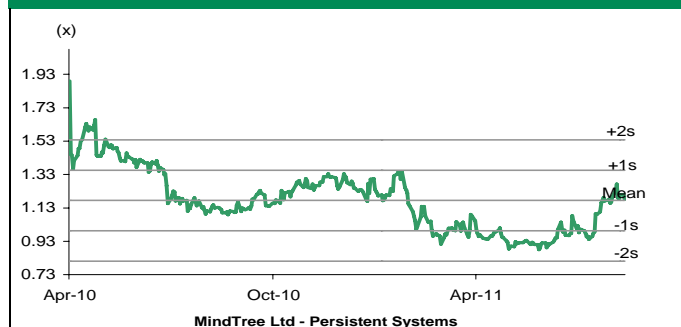
MindTree Ltd = 12 + 0.0296 * SENSEX Index
 R Square = 0.0757
 Regression based on 232 observations of 5 years weekly data.
 Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNP Paribas Sector Strategy

Long/short chart



Sources: Bloomberg, BNP Paribas

The risk experts

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process.

FINANCIAL STATEMENTS

MindTree Ltd

Profit and Loss (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Revenue	12,960	15,090	17,602	19,183	22,639
Cost of sales ex depreciation	(7,982)	(10,145)	(11,636)	(12,990)	(15,259)
Gross profit ex depreciation	4,977	4,945	5,966	6,193	7,380
Other operating income	0	0	0	0	0
Operating costs	(2,522)	(3,167)	(3,550)	(3,792)	(4,437)
Operating EBITDA	2,456	1,778	2,416	2,400	2,942
Depreciation	(652)	(712)	(732)	(828)	(941)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	1,804	1,066	1,685	1,573	2,002
Net financing costs	647	153	216	0	(2)
Associates	0	0	0	0	0
Recurring non operating income	96	86	85	142	133
Non recurring items	0	0	0	0	0
Profit before tax	2,547	1,305	1,986	1,715	2,133
Tax	(398)	(287)	(342)	(356)	(491)
Profit after tax	2,149	1,017	1,644	1,358	1,642
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	0	0	0	0	0
Reported net profit	2,149	1,017	1,644	1,358	1,642
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	2,149	1,017	1,644	1,358	1,642

Per share (INR)

Recurring EPS *	52.79	24.89	40.33	32.68	39.12
Reported EPS	54.77	25.58	40.69	32.97	39.46
DPS	3.01	2.51	3.01	4.01	4.50

Growth

Revenue (%)	4.7	16.4	16.7	9.0	18.0
Operating EBITDA (%)	(25.8)	(27.6)	35.9	(0.7)	22.6
Operating EBIT (%)	(34.2)	(40.9)	58.0	(6.6)	27.3
Recurring EPS (%)	285.3	(52.9)	62.1	(19.0)	19.7
Reported EPS (%)	295.7	(53.3)	59.1	(19.0)	19.7

Translates into 17.7% and 8.3% USD revenue growth for FY12E and FY13E respectively

Operating performance

Gross margin inc depreciation (%)	33.4	28.1	29.7	28.0	28.4
Operating EBITDA margin (%)	18.9	11.8	13.7	12.5	13.0
Operating EBIT margin (%)	13.9	7.1	9.6	8.2	8.8
Net margin (%)	16.6	6.7	9.3	7.1	7.3
Effective tax rate (%)	15.6	22.0	17.2	20.8	23.0
Dividend payout on recurring profit (%)	5.7	10.1	7.5	12.3	11.5
Interest cover (x)	-	-	-	-	1,186.0
Inventory days	0.0	0.0	0.0	0.0	0.0
Debtor days	72.7	62.8	63.1	65.1	60.4
Creditor days	113.7	67.5	52.7	50.0	45.0
Operating ROIC (%)	27.9	13.8	19.1	17.0	20.5
Operating ROIC – WACC (%)	-	-	-	-	-
ROIC (%)	19.3	11.9	17.6	16.3	19.3
ROIC – WACC (%)	-	-	-	-	-
ROE (%)	35.2	14.1	19.3	13.8	14.7
ROA (%)	17.5	9.4	13.7	10.9	11.8

Tax rates likely to go up as government granted tax benefits expire

* Pre exceptional, pre-goodwill and fully diluted

Sources: MindTree Ltd; BNP Paribas estimates

MindTree Ltd

Cash Flow (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Recurring net profit	2,149	1,017	1,644	1,358	1,642
Depreciation	652	712	732	828	941
Associates & minorities	0	0	0	0	0
Other non-cash items	393	286	336	356	491
Recurring cash flow	3,193	2,016	2,711	2,542	3,073
Change in working capital	237	(1,377)	(636)	(532)	(663)
Capex - maintenance	(457)	(840)	(790)	(963)	(1,132)
Capex – new investment	0	0	0	0	0
Free cash flow to equity	2,974	(201)	1,286	1,047	1,279
Net acquisitions & disposals	(243)	0	0	0	0
Dividends paid	(46)	(89)	(112)	(193)	(219)
Non recurring cash flows	(1,409)	256	36	0	0
Net cash flow	1,275	(34)	1,210	854	1,060
Equity finance	94	139	25	0	0
Debt finance	(1,414)	(52)	(30)	0	0
Movement in cash	(44)	53	1,205	854	1,060

Per share (INR)

Recurring cash flow per share	81.40	50.69	67.13	61.70	73.85
FCF to equity per share	75.79	(5.06)	31.83	25.41	30.73

Balance Sheet (INR m)

Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Working capital assets	4,268	4,831	5,188	5,537	5,908
Working capital liabilities	(2,603)	(2,044)	(2,197)	(2,370)	(2,570)
Net working capital	1,665	2,787	2,991	3,166	3,338
Tangible fixed assets	2,859	2,952	3,023	3,159	3,350
Operating invested capital	4,524	5,739	6,014	6,325	6,688
Goodwill	154	0	0	0	0
Other intangible assets	0	55	52	52	52
Investments	1,442	7	7	7	7
Other assets	214	743	788	788	788
Invested capital	6,334	6,544	6,861	7,172	7,535
Cash & equivalents	(403)	(1,564)	(2,680)	(3,533)	(4,593)
Short term debt	0	0	0	0	0
Long term debt *	31	41	36	36	36
Net debt	(372)	(1,523)	(2,644)	(3,497)	(4,557)
Deferred tax	0	0	0	0	0
Other liabilities	0	305	223	223	223
Total equity	6,706	7,762	9,281	10,446	11,870
Minority interests	0	0	0	0	0
Invested capital	6,334	6,544	6,861	7,172	7,535

* includes convertibles and preferred stock which is being treated as debt

Per share (INR)

Book value per share	171	195	230	254	285
Tangible book value per share	167	194	229	252	284

Financial strength

Net debt/equity (%)	(5.5)	(19.6)	(28.5)	(33.5)	(38.4)
Net debt/total assets (%)	(4.0)	(15.0)	(22.5)	(26.7)	(31.0)
Current ratio (x)	1.8	3.1	3.6	3.8	4.1
CF interest cover (x)	-	-	-	-	711.6

Valuation	2010A	2011A	2012E	2013E	2014E
Recurring P/E (x) *	6.8	14.4	8.9	11.0	9.2
Recurring P/E @ target price (x) *	5.1	10.8	6.7	8.3	6.9
Reported P/E (x)	6.5	14.0	8.8	10.9	9.1
Dividend yield (%)	0.8	0.7	0.8	1.1	1.3
P/CF (x)	4.4	7.1	5.3	5.8	4.8
P/FCF (x)	4.7	(70.7)	11.3	14.1	11.7
Price/book (x)	2.1	1.8	1.6	1.4	1.3
Price/tangible book (x)	2.1	1.8	1.6	1.4	1.3
EV/EBITDA (x) **	5.6	7.1	4.9	4.5	3.5
EV/EBITDA @ target price (x) **	4.2	5.2	3.5	3.1	2.3
EV/invested capital (x)	2.2	1.9	1.7	1.6	1.4

* Pre exceptional, pre-goodwill and fully diluted

** EBITDA includes associate income and recurring non-operating income

Sources: MindTree Ltd; BNP Paribas estimates



Persistent Systems PSYS IN

INDIA / SOFTWARE & SERVICES

 TARGET
 PRIOR TP
 CLOSE
 UP/DOWNSIDE

 INR250.00
 INR470.00
 INR310.20
 -19.4%

REDUCE

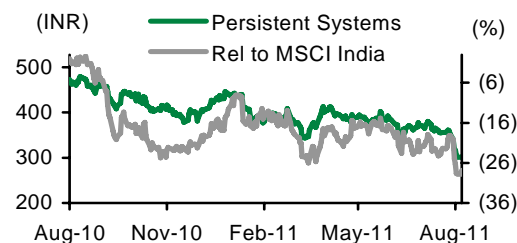
FROM BUY

HOW WE DIFFER FROM THE STREET

	BNP	Consensus	% Diff
Target Price (INR)	250.00	464.80	(46.2)
EPS 2012 (INR)	31.44	32.68	(3.8)
EPS 2013 (INR)	27.52	40.21	(31.6)
	Positive	Neutral	Negative
Market Recs.	30	2	1

KEY STOCK DATA

YE Mar (INR m)	2012E	2013E	2014E
Revenue	10,067	11,073	13,003
Rec. net profit	1,277	1,146	1,360
Recurring EPS (INR)	31.44	27.52	32.49
Prior rec. EPS (INR)	32.02	39.33	47.74
Chg. In EPS est. (%)	(1.8)	(30.0)	(31.9)
EPS growth (%)	(9.9)	(12.5)	18.1
Recurring P/E (x)	9.9	11.3	9.5
Dividend yield (%)	1.0	1.4	2.0
EV/EBITDA (x)	5.3	5.0	4.1
Price/book (x)	1.4	1.3	1.2
Net debt/Equity	(12.1)	(20.7)	(22.8)
ROE (%)	15.9	12.6	13.5



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(15.0)	(19.8)	(34.8)
Relative to country (%)	(3.6)	(8.6)	(23.5)

Next results	October 2011
Mkt cap (USD m)	265
3m avg daily turnover (USD m)	0.3
Free float (%)	61
Major shareholder	Anand Deshpande (28%)
12m high/low (INR)	479.95/300.90
3m historic vol. (%)	30.6
ADR ticker	-
ADR closing price (USD)	-

Sources : Bloomberg consensus; BNP Paribas estimates

RECENT COMPANY & SECTOR RESEARCH

On course for FY12 targets	19 Jul 2011
Ideal base now for FY12	19 Apr 2011
Rotten Apple evidence?	17 Aug 2011
GOOG-MMI deal and Japan	16 Aug 2011

INDUSTRY OUTLOOK ↓

CHANGE IN RECOMMENDATION

Should be available cheaper

- Downgrade to REDUCE, significant risk to Street FY12-13 EPS
- Weak macro puts revenue at risk just as it did in 2008-09
- Price losses could put margins under further pressure
- Heightened risk aversion likely for mid and small caps

Downgrade to REDUCE

We downgrade Persistent Systems to REDUCE (from Buy) and the Indian IT services sector outlook to DETERIORATING. In a series of recent investor meetings that we hosted with the company, the CEO did not seem concerned about the weakening macro environment and insisted the work Persistent does is not discretionary, but is "bread-and-butter" for its clients. Management cited the examples of strong results from top client IBM (IBM US, Not rated), and key clients such as Cisco

(CSCO US, Not rated), which are unlikely to cut spending on focus areas such as collaboration (Persistent is a key partner for Cisco in the area). Persistent has about 90% revenue visibility for the immediate quarter and a reasonable idea of customer plans for the year which is factored into its guidance. However, during the previous downturn, Persistent saw three successive quarters of 5-7% USD revenue growth declines, which we worry could repeat.

Revising estimates significantly downward

Other points of concern are: 1) About 30% of Persistent's revenue comes from smaller clients and start-ups that contribute less than USD1m in revenue each annually. In the eventuality of a recession, we believe this revenue base could be at particular risk. 2) During the previous downturn, price cuts accompanied volume declines, which could hurt the company's margins that are already under pressure from an increasing wage base. Our FY13-14 revenue estimates are now lower by 16-21%, while we cut our EPS estimates by 30-32%.

Valuation and target price derivation

We have so far liked Persistent as a play on the structural shifts (cloud computing, collaboration, data analytics and mobility, which contribute over 40% of its revenue) that the software industry is undergoing. However, given heightened macro uncertainty, we believe investors would be able to buy the stock cheaper over the next few months. We also note that in 2008-09, FY10 P/E multiples went down 30-50% for large-cap stocks, while those of some mid-cap companies fell more to fundamentally unjustifiable levels. Given the likely investor risk aversion ahead, we believe this is another reason to avoid smaller Indian IT names. To capture this extra risk, we increase the beta in our DCF assumptions to 1.3, from 1.1. As a result of this and our estimate cuts, our TP for Persistent falls to INR250.00 (from INR470), which implies an FY13E P/E of 9.1x. Risks: unexpected USD/INR weakness and less-than-expected deterioration of the macro environment.



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RISK EXPERTS

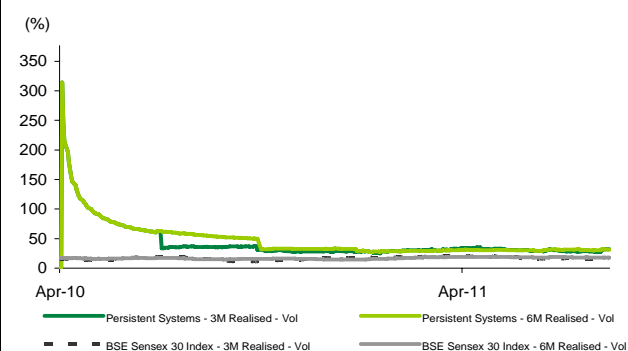
	Base		Worst		Best	
Year-end 31 Mar	2012E	2013E	2012E	2013E	2012E	2013E
USD/INR average	45.24	45.50	44.24	39.84	46.10	50.73
EPS (INR)	31.44	27.52	29.01	11.79	33.57	42.05
Change (%)	—	—	(7.7)	(57.2)	6.8	52.8

Sources: BNP Paribas estimates

Key Earnings Drivers & Sensitivity

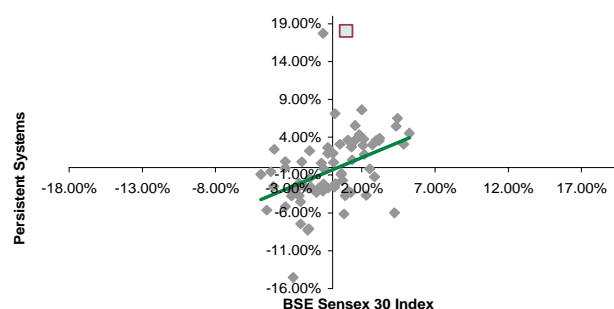
- The key macro factor that can impact Persistent's earnings is currency fluctuation, specifically the USD/INR rate.
- In our best and worst cases, we assume the FY13 average USD/INR rate changes by 10% versus our base case. We calculate that, all else staying the same, this could cause over a 50% variation to our base-case FY13 EPS.

Persistent Systems and SENSEX Index (3M and 6M realised-vol)



Sources: Bloomberg; BNP Paribas

Regression – Persistent Systems to SENSEX Index



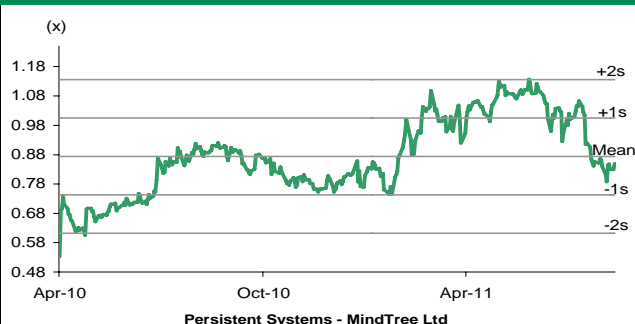
Persistent Systems = $-131 + 0.0342 \cdot \text{SENSEX Index}$
 R Square = 0.1805
 Regression based on 71 observations of 5 years weekly data.
 Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNP Paribas Sector Strategy

Long/short chart



Sources: Bloomberg, BNP Paribas

The risk experts

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process.

FINANCIAL STATEMENTS

Persistent Systems

Profit and Loss (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Revenue	6,012	7,758	10,067	11,073	13,003
Cost of sales ex depreciation	(3,687)	(5,123)	(6,603)	(7,427)	(8,780)
Gross profit ex depreciation	2,324	2,635	3,464	3,646	4,223
Other operating income	0	0	0	0	0
Operating costs	(860)	(1,052)	(1,414)	(1,533)	(1,755)
Operating EBITDA	1,464	1,583	2,050	2,114	2,468
Depreciation	(335)	(424)	(572)	(659)	(722)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	1,128	1,159	1,478	1,455	1,745
Net financing costs	112	344	373	127	117
Associates	0	0	0	0	0
Recurring non operating income	0	0	0	0	0
Non recurring items	0	2	0	0	0
Profit before tax	1,241	1,505	1,851	1,582	1,862
Tax	(91)	(108)	(575)	(436)	(503)
Profit after tax	1,150	1,397	1,277	1,146	1,360
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	0	0	0	0	0
Reported net profit	1,150	1,397	1,277	1,146	1,360
Non recurring items & goodwill (net)	0	(2)	0	0	0
Recurring net profit	1,150	1,396	1,277	1,146	1,360

Per share (INR)

Recurring EPS *	32.05	34.89	31.44	27.52	32.49
Reported EPS	35.72	36.48	32.99	28.88	34.10
DPS	2.58	5.74	3.20	4.26	6.30

Growth

Revenue (%)	1.2	29.1	29.8	10.0	17.4
Operating EBITDA (%)	(18.1)	8.2	29.5	3.1	16.7
Operating EBIT (%)	(24.3)	2.7	27.5	(1.6)	20.0
Recurring EPS (%)	70.1	8.8	(9.9)	(12.5)	18.1
Reported EPS (%)	72.7	2.1	(9.6)	(12.5)	18.1

Operating performance

Gross margin inc depreciation (%)	33.1	28.5	28.7	27.0	26.9
Operating EBITDA margin (%)	24.3	20.4	20.4	19.1	19.0
Operating EBIT margin (%)	18.8	14.9	14.7	13.1	13.4
Net margin (%)	19.1	18.0	12.7	10.3	10.5
Effective tax rate (%)	7.3	7.2	31.0	27.5	27.0
Dividend payout on recurring profit (%)	8.0	16.5	10.2	15.5	19.4
Interest cover (x)	-	-	-	-	-
Inventory days	0.0	0.0	0.0	0.0	0.0
Debtor days	72.8	69.3	64.0	66.8	60.5
Creditor days	0.0	14.5	27.6	29.1	24.6
Operating ROIC (%)	25.8	16.3	14.0	12.8	15.3
Operating ROIC – WACC (%)	8.6	(1.0)	(3.3)	(4.4)	(2.0)
ROIC (%)	18.1	13.7	13.6	12.5	14.4
ROIC – WACC (%)	0.9	(3.5)	(3.7)	(4.8)	(2.9)
ROE (%)	22.2	20.1	15.9	12.6	13.5
ROA (%)	16.5	13.5	10.3	9.3	10.2

* Pre exceptional, pre-goodwill and fully diluted

Sources: Persistent Systems; BNP Paribas estimates

Translates into USD revenue growth of 30.7% in FY12 and 9.4% in FY13

We expect EBIT margin to fall on price and wage pressures contribution from higher margin IP

Tax rate expected to increase as government-granted tax benefits expire

Persistent Systems

Cash Flow (INR m)					
Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Recurring net profit	1,150	1,396	1,277	1,146	1,360
Depreciation	335	424	572	659	722
Associates & minorities	0	0	0	0	0
Other non-cash items	(373)	(292)	10	0	0
Recurring cash flow	1,112	1,527	1,859	1,805	2,082
Change in working capital	126	48	(59)	(133)	(265)
Capex - maintenance	(476)	(972)	(1,985)	(536)	(585)
Capex – new investment	0	0	0	0	0
Free cash flow to equity	762	603	(185)	1,135	1,232
Net acquisitions & disposals	1	2	2	0	0
Dividends paid	(27)	(280)	(145)	(198)	(294)
Non recurring cash flows	(710)	(1,684)	327	0	(500)
Net cash flow	26	(1,358)	(1)	938	438
Equity finance	1,618	(417)	0	0	0
Debt finance	89	110	42	0	0
Movement in cash	1,733	(1,666)	41	938	438

Per share (INR)

Recurring cash flow per share	34.54	39.86	48.03	45.48	52.21
FCF to equity per share	23.67	15.75	(4.79)	28.61	30.89

Balance Sheet (INR m)

Year Ending Mar	2010A	2011A	2012E	2013E	2014E
Working capital assets	2,341	5,080	5,415	5,619	6,071
Working capital liabilities	(1,710)	(1,345)	(2,110)	(2,182)	(2,369)
Net working capital	630	3,734	3,305	3,438	3,703
Tangible fixed assets	2,318	2,815	4,246	4,123	3,986
Operating invested capital	2,949	6,549	7,551	7,561	7,689
Goodwill	0	0	0	0	0
Other intangible assets	0	0	0	0	0
Investments	1,562	0	0	0	500
Other assets	7	209	215	215	215
Invested capital	4,517	6,758	7,766	7,776	8,404
Cash & equivalents	(1,918)	(1,000)	(1,042)	(1,980)	(2,418)
Short term debt	0	0	0	0	0
Long term debt *	0	0	0	0	0
Net debt	(1,918)	(1,000)	(1,042)	(1,980)	(2,418)
Deferred tax	0	0	0	0	0
Other liabilities	0	84	76	76	76
Total equity	6,435	7,471	8,612	9,561	10,626
Minority interests	0	0	0	0	0
Invested capital	4,517	6,758	7,766	7,776	8,404

* includes convertibles and preferred stock which is being treated as debt

Per share (INR)

Book value per share	169	195	223	241	266
Tangible book value per share	169	195	223	241	266

Financial strength

Net debt/equity (%)	(29.8)	(13.4)	(12.1)	(20.7)	(22.8)
Net debt/total assets (%)	(23.5)	(11.0)	(9.5)	(16.6)	(18.3)
Current ratio (x)	2.5	4.5	3.1	3.5	3.6
CF interest cover (x)	-	-	-	-	-

Valuation	2010A	2011A	2012E	2013E	2014E
Recurring P/E (x) *	9.7	8.9	9.9	11.3	9.5
Recurring P/E @ target price (x) *	7.8	7.2	8.0	9.1	7.7
Reported P/E (x)	8.7	8.5	9.4	10.7	9.1
Dividend yield (%)	0.8	1.9	1.0	1.4	2.0
P/CF (x)	9.0	7.8	6.5	6.8	5.9
P/FCF (x)	13.1	19.7	(64.7)	10.8	10.0
Price/book (x)	1.8	1.6	1.4	1.3	1.2
Price/tangible book (x)	1.8	1.6	1.4	1.3	1.2
EV/EBITDA (x) **	6.7	6.6	5.3	5.0	4.1
EV/EBITDA @ target price (x) **	5.3	5.1	4.2	3.9	3.1
EV/invested capital (x)	2.2	1.6	1.4	1.3	1.2

* Pre exceptional, pre-goodwill and fully diluted

** EBITDA includes associate income and recurring non-operating income

Sources: Persistent Systems; BNP Paribas estimates

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BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

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