

Brazilian Banks

What does a lower Selic mean for Brazilian banks?

Equities

Americas
Banks

Interest rate expectations are coming down sharply

Rate expectations in Brazil are coming down and with them a new source of potential earnings risk is emerging. Our Economics team now forecasts a 200bp fall in the Selic, from the current level of 14.25%, by the end of 2016, and another 175bp reduction in 2017 ([click here](#)). In the same manner that a rising Selic was positive for bank margins over the past three years with the re-pricing (up) of loan books, a falling Selic is expected to put pressure on net interest margins (NIM) and weigh on bank profits.

NIM sensitivity: A 100bp Selic reduction would lower NIM by 11bp, on average

An analysis of the last tightening cycle showed that for every 100bp rise in the Selic, NIM expanded by 11bp for banks under our coverage, with a time lag of three quarters. Given our new Selic forecasts, this implies a NIM contraction of ~42bp for banks under our coverage by the end of 2018. By bank, the NIM sensitivity for every 100bps Selic change varied from 6bp at Itau to 13bp at Bradesco.

Risks to our NIM forecasts of a 9bp reduction in 2017 and 1bp in 2018

Given the time lag of rate cuts on NIM, we see low risk to our NIM expectations in 2016 but there could be downside risk to our current NIM forecasts in 2017 and 2018 if the reduction in policy rates be in line or ahead of our latest macro forecasts. A sensitivity analysis suggests for every 10bp reduction in NIM (below our current estimates) could lower our 2017E EPS by 8.0%.

Underweight Brazilian banks within a LatAm/EM context

We have become cautious on Brazilian banks, as illustrated by the Sell rating downgrades of Banco do Brasil ([click here](#)) and Santander Brasil ([click here](#)) in the past two weeks, largely on valuation grounds as we believe the risk/reward profiles have become unattractive. Brazilian banks have rallied strongly (up 46% in US\$ on average over the past three months) yet fundamentals remain under pressure: over the same period, we have cut our 2016 EPS estimates by 13.4%. Itau remains our only Buy rated bank in Brazil.

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Figure 1: Brazilian banks – summary valuation

		Price	Price Target	Upside	Mkt Cap	P/E		P/BV		Adj. ROE (%)		Dividend Yield
	Rating	LC	LC	(%)	(USD millions)	2016E	2017E	2016E	2017E	2016E	2017E	12-month Fwd (%)
Banco do Brasil	Sell (CBE)	17.73	16.00	-9.8	14,877	5.8x	4.7x	0.6x	0.5x	10.8	12.1	4.5
Bradesco	Neutral	24.65	27.50	11.6	39,833	8.5x	7.9x	1.4x	1.2x	17.3	16.5	4.2
Itau Unibanco	Buy	30.47	36.00	18.1	52,692	9.1x	8.2x	1.6x	1.4x	18.4	18.6	4.4
Santander Brasil	Sell	17.85	16.00	-10.4	19,330	12.6x	10.9x	1.2x	1.2x	9.6	10.7	5.7

Source: UBS estimates. Prices as of 19 May 2016. All PTs derived from Gordon Growth Models

Contents

UBS Research THESIS MAP	3
OUR THESIS IN PICTURES	4
PIVOTAL QUESTIONS.....	5
Q: What does a lower Selic mean for NIMs?	5
Q: Will competition remain rational?	10
Valuation	13

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Brazilian Banks

UBS Research THESIS MAP MOST FAVORED

LEAST FAVORED

Itau

Banco do Brasil, Santander Brasil

PIVOTAL QUESTIONS

Q: What does a lower Selic mean for NIMs?

In the manner that a rising Selic over the past three years was positive for bank margins with the re-pricing (up) of loan books, a falling Selic would put pressure on net interest margins. More positively, lower policy rates may help a recovery in loan growth and lessen asset quality pressure, although we consider this to be more closely linked to economic growth, while potentially bringing down cost of equity further. [more →](#)

Q: Will competition remain rational?

We believe competition and pricing behaviour will remain rational in the short to medium-term (i) as the re-pricing (up) of the back book of the lending portfolio is ongoing, led by public banks; (ii) given a lack of appetite to lend with prevailing macro uncertainties; while (iii) capital limitations among public banks, as illustrated by low core tier I ratios when compared to its peers will likely constrain the ability to expand their balance sheet, when economic activity eventually picks-up. [more →](#)

WHAT'S PRICED IN?

Current valuations suggest the market is expecting a c1% increase in earnings.

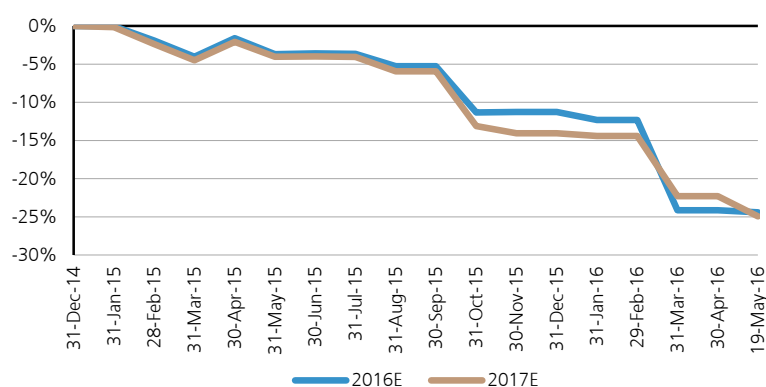
Using 1-year forward consensus estimates, Brazilian banks have re-rated to 8.3x PE and 1.3x P/BV from 5.9x PE and 1.0x P/BV over the past 3 months. In PE terms, the sector is now in line with the five years historical mean (at 8.3x PE) while in P/BV terms, it is at a 7% discount to its historical mean (at 1.4x).

UBS VIEW

The outlook for Brazilian banks remains challenging, with growth uncertainties and rising unemployment. Asset quality remains the key concern with a rising provisioning burden as evident in 1Q16 results weighing on profits and return. Prospects of a sharply lower Selic will become another source of earnings risk. We are underweight Brazilian banks within a LatAm/EM banking as the risk/reward profile of the sector is unattractive: over the past three months, the sector is up 30.2% in local currency (46.3% in US\$) yet we have cut our 2016E EPS by -13.8% and 2017E by -12.3%.

EVIDENCE

Brazilian banks – cumulative EPS changes

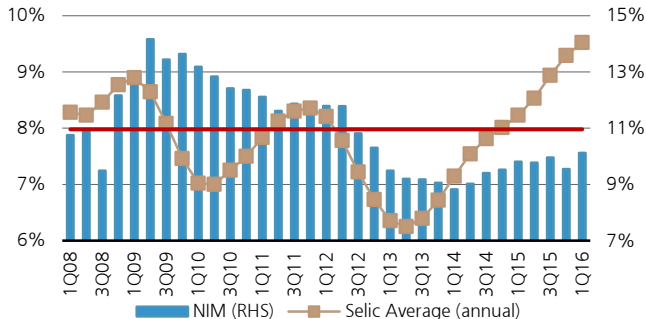


Source: UBS estimates

OUR THESIS IN PICTURES

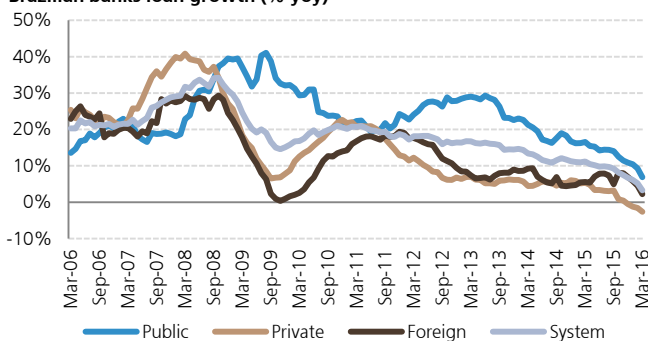
[return](#) ↑

Brazil banks NIMs vs Selic rate



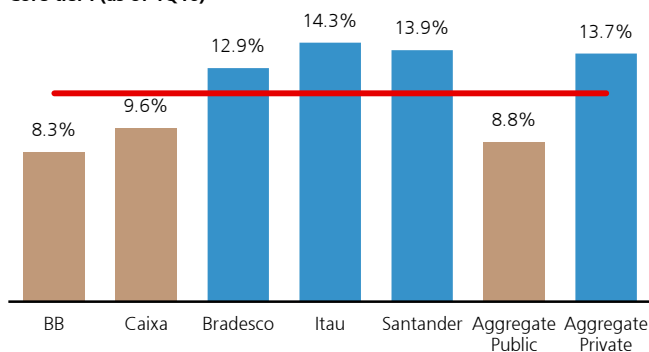
The changes in the average Selic rate have a high positive correlation with NIM changes suggesting a lower Selic in the future could weigh on NIM

Brazilian banks loan growth (% yoy)



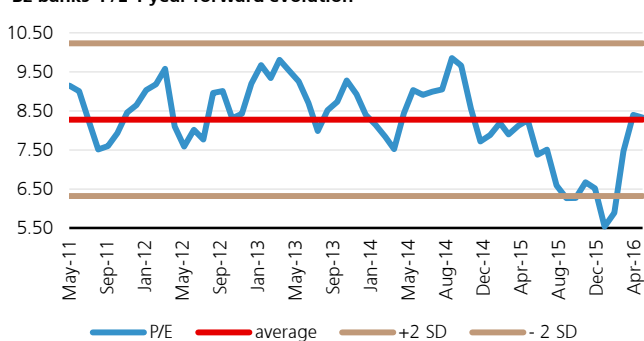
The competitive outlook looks stable in part because banks' appetite to lend, especially public banks, has decreased sharply, as reflected by the slowdown in system loan growth.

Core tier I (as of 1Q16)



Capital limitations among public banks, as illustrated by low core tier I ratios when compared to their peers, will likely constrain the banks' ability to expand their balance sheets when economic activity eventually picks-up

Bz banks P/E 1 year forward evolution



Using 1-year forward consensus estimates, Brazilian banks are trading on 8.4x PE. This is just above its 5-year historical average of 8.3x PE.

Sources for exhibits above: Banks, Brazil Central Bank, I/B/E/S MSCI Consensus Aggregates, Thomsons Financials DataStream and UBS

Q: What does a lower Selic mean for NIMs?

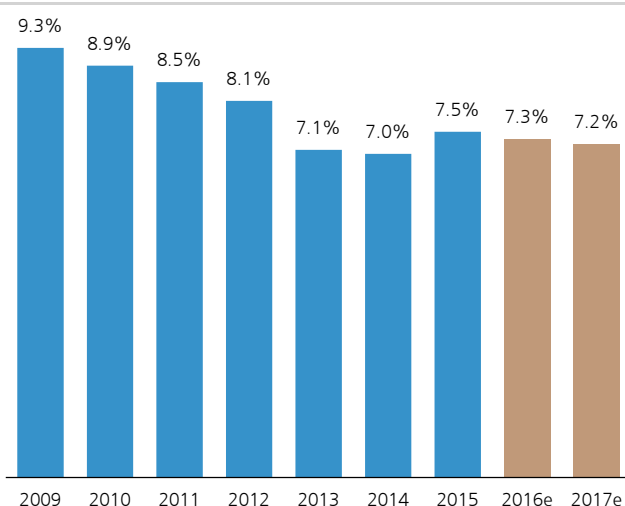
UBS VIEW

In the same manner that a rising Selic over the past three years was positive for bank margins with the re-pricing (up) of loan books, a falling Selic would put pressure on net interest margins. More positively, lower policy rates may help a recovery in loan growth and lessen asset quality pressure, although we consider this to be more closely linked to economic growth, while potentially bringing down cost of equity further (see Figure 27).

EVIDENCE

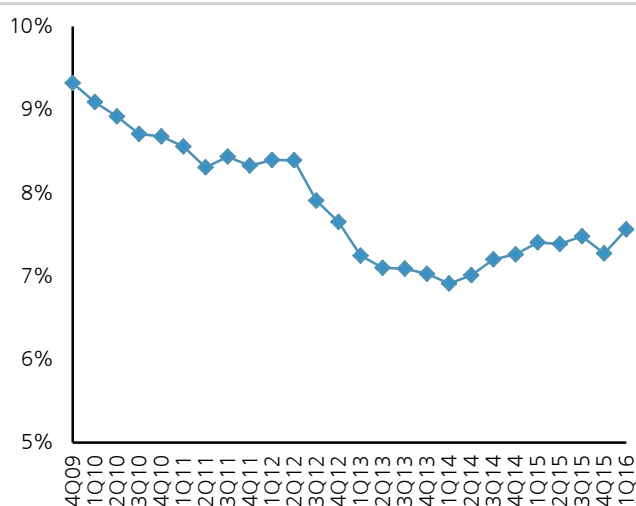
After years of margin pressure, Brazilian bank's NIMs inflected in 1Q14, with margins expanding from 6.9% in 1Q14 to 7.6% in 1Q16. In 2015, NIMs went up 48bps on average for the banks under our coverage on the back of (i) higher Selic rate; (ii) higher trading gains; and (iii) the re-pricing of front/back books.

Figure 2: Brazilian banks' NIMs – annual evolution



Source: Banks and UBS estimates. Note: considers BB, Bradesco, Itau and Santander Brasil

Figure 3: Brazilian banks' NIMs – quarterly evolution



Source: Banks and UBS estimates. Note: considers BB, Bradesco, Itau and Santander Brasil

Looking ahead, our Economics team expects the easing cycle to start in August 2016 and that it should last until mid-2017. They have recently published new macro forecasts that included the Selic falling from the current level of 14.25% to 12.75% by the end of 2016 and to 10.50% by the end of 2017. As a rule of thumb, we assume every 100bp cut in policy rates leads to a margin contraction around 10bp with an average time lag of three quarters to one year.

In the current tightening cycle that started in April 2013, the Selic rate went up by 700bps, peaking at 14.25% in April 2015. In the same period, system spreads were up from 22.5% to 29.3% in April 2015, reaching the historical high in March 2016 at 37.3%. At the same time, NIMs went up from 6.8% in 1Q13 to 7.3% in 2Q15, peaking at 7.5% in 1Q16 (+78bps).

This implied an 11bp NIM expansion for each 100bps increase in the policy rate, with a time lag of three quarters. As banks' liabilities usually re-adjust faster than assets, we observed NIM initially declining to 6.6% in 1Q14 before expanding in subsequent quarters. The NIM expansion took place against a backdrop of a changing loan mix towards lower-yield and less risky types of loans that understated the NIM expansion. At the same time, during this period, banks posted higher than normal trading income that helped elevate margins. In this analysis, we have assumed the two trends offset each other in terms of the impact on NIM. By bank, the NIM sensitivity for every 100bps Selic rise varied from 6bp at Itau to 13bp at Bradesco (see Figure 4).

Assuming the relationship between changes in the Selic and changes in NIM remain positively correlated, both with a rising Selic as well as with a falling Selic, our new Selic forecasts suggest a NIM contraction of ~42bp for banks under our coverage by the end of 2018 (assuming a 375bp reduction in the Selic by the end of 2017 and a one-year time lag for this to fully impact margins).

Figure 4: Potential implications of Selic changes on NIM

	BB	Bradesco	Itau	Aggregate
1Q13 (start of tightening cycle)	5.8%	7.3%	7.2%	6.8%
2Q15 (final Selic hike)	5.9%	7.9%	8.2%	7.3%
1Q16 (aggregate NIM peak)	6.4%	8.2%	7.6%	7.5%
NIM change	61 bps	88 bps	43 bps	78 bps
Selic change	700 bps	700 bps	700 bps	701 bps
NIM change to every 100bps change in Selic	9 bps	13 bps	6 bps	11 bps
Implication of 375bps lower Selic on NIMs	-33 bps	-47 bps	-23 bps	-42 bps

Source: Banks, Central Bank and UBS estimates. Note: We exclude Santander Brasil from this analysis as NIM change during tightening cycle (-43bps) was driven by loan mix change and hedge effects

In our models, we assume NIM for the banks under our coverage falls by 17bp in 2016, on average – despite the effect of loan book re-pricing, lower trading gains should pressure margins. We also forecast NIMs to contract by 9bps in 2017 and 1bp in 2018, indicating potential downside risk to current estimates should the reduction in policy rates be in line with or ahead of our latest macro forecasts.

Figure 5: NIM evolution by bank

	2015	2016E	2017E	2018E	Change		
					16E/15	17E/16E	18E/17E
Banco do Brasil	6.2%	6.3%	6.1%	6.2%	13 bps	-20 bps	5 bps
Bradesco	7.7%	7.8%	7.7%	7.7%	13 bps	-12 bps	5 bps
Itau	8.1%	7.6%	7.5%	7.4%	-44 bps	-9 bps	-13 bps
Santander Brasil	8.4%	7.7%	8.0%	8.1%	-65 bps	30 bps	4 bps
Aggregate	7.46%	7.29%	7.20%	7.19%	-17 bps	-9 bps	-1 bps

Source: Banks and UBS estimates

WHAT'S PRICED IN?

According to the Central Bank, market consensus (as of 16 May) for the Selic rate by the end of 2016 is at 13.00% and by the end of 2017 at 11.50%.

With the easing cycle expected by consensus to start towards the year end and given the time-lag for rate cuts to fully impact NIM, we see low risk to our 2016 estimates from lower rates. However, there is a potential downside risk to consensus 2017 estimates in case our economists' scenario materializes

(Selic at 12.75% in 2016 and 10.50% in 2017): a sensitivity analysis suggests every 10bp reduction in NIM (below our current estimates) could lower our 2017E EPS by 8.0% (see Figure 6).

Figure 6: Brazilian banks NIM sensitivity analysis of 10bp lower NIM

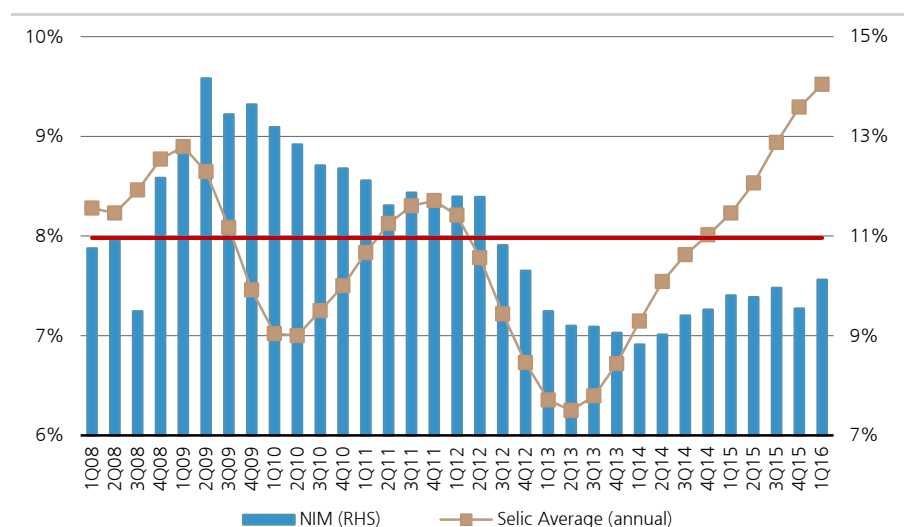
	Banco do Brasil	Bradesco	Itau	Santander Brasil	Aggregate
Base Scenario (2017e)					
NII	60,136	57,914	73,562	34,276	225,886
NIM	6.1%	7.7%	7.5%	8.0%	7.20%
Net Income	10,972	17,670	22,883	6,200	57,726
-10bps higher NIM					
NII	59,152	57,161	72,587	33,849	222,749
NIM	6.0%	7.6%	7.4%	7.9%	7.10%
Net Income	10,092	17,184	22,231	5,869	55,376
% Net Income change	-8.0%	-2.7%	-2.9%	-5.3%	-4.1%

Source: UBS estimates

Regression analysis suggests NIM at 7.1% in 2018

The changes in the average Selic rate have a high correlation with NIM changes in the following four quarters for the period after 4Q11 at 0.92.

Figure 7: Selic rate vs. NIM (1Q08-1Q16)



Source: Brazil Central Bank, banks and UBS. Note: NIMs are the aggregated NIMs of Banco do Brasil, Bradesco, Itaú and Santander Brasil

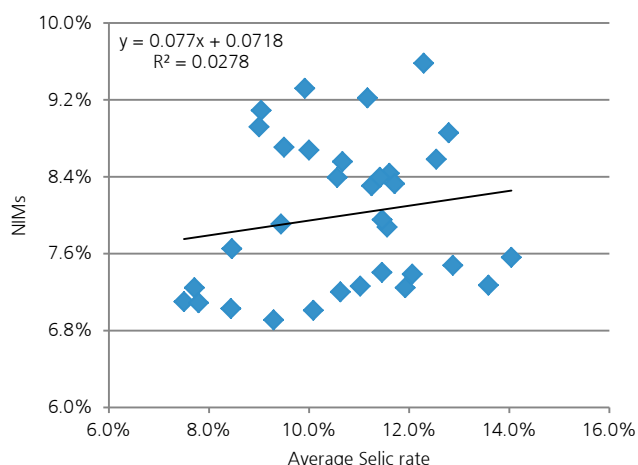
Our economists expect an average Selic rate of c11% in 2017. The last time the average Selic rate was at this level was during 4Q14, during the last tightening cycle. At that time, average NIM (for BB, Bradesco, Itaú and Santander Brasil) was at 7.3%, 30 bps below 1Q16 (at 7.6%).

We run a regression analysis of the average Selic rate vs. NIM from 1Q08 to 1Q16, however, the R-squared of this regression is low, at 0.04. In our view, the low coefficient of determination is partly due to the shift in the loan mix effect and the time needed to re-price the whole book.

We re-run our analysis comparing average Selic rate vs. average NIM in the following four quarters for the period after 2Q14, when the last tightening

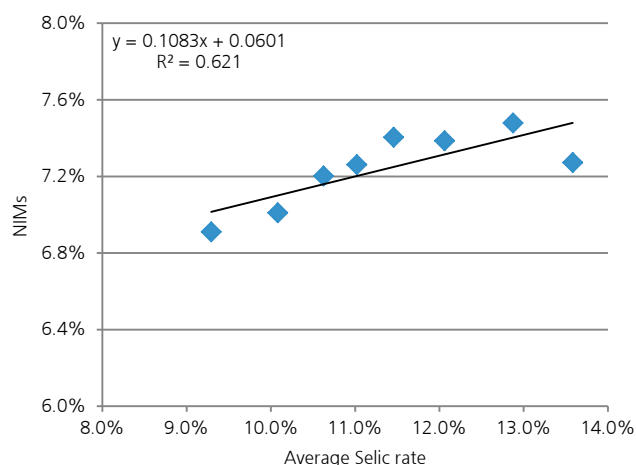
cycle started. In this period we were able to capture a good portion of loan book re-price with lower impact of loan mix changes. The R-squared of this new regression was high, at 0.62. For an average Selic rate of 11.0% in 2017 we would have average NIM at 7.2%, in line with our expectations. However, with average Selic at 10.5% in 2018, we would have average NIM at 7.1%, slightly below our current our forecast.

Figure 8: LTM average Selic rate vs NIM (1Q08-1Q16)



Source: Brazil Central Bank, banks and UBS. Note: NIMs are the aggregated NIMs of Banco do Brasil, Bradesco, Itaú and Santander Brasil.

Figure 9: LTM average Selic rate vs NIM (1Q14-1Q16)



Source: Brazil Central Bank, banks and UBS. Note: NIMs are the aggregated NIMs of Banco do Brasil, Bradesco, Itaú and Santander Brasil.

Bradesco was the least affected bank in previous easing cycle,

The previous easing cycle started in August 2011, with Selic decreasing from 12.5% to 12.0%. The Selic rate bottomed in October 2012 at 7.25% and remained at this level until March 2013. At the same time, the average Selic rate (LTM) reached the lowest level one year later in March 2014.

The aggregate bank's NIM declined from the peak of 8.4% in 1Q12 to 6.9% 1Q14 given the lower Selic rate, but also the change in loan mix to low-risk/low-yield portfolios.

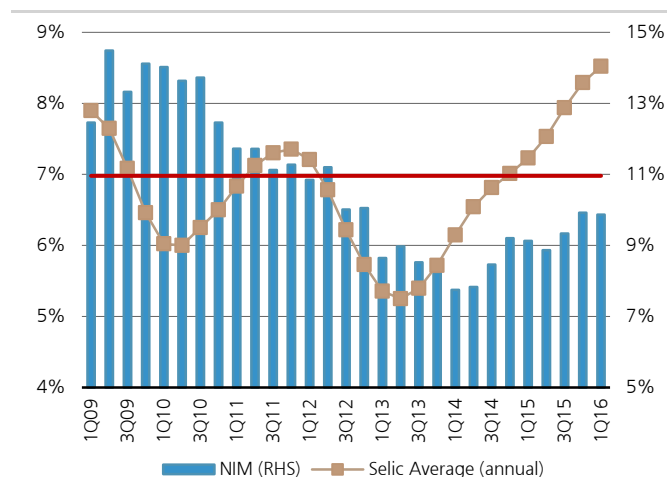
At bank level, Bradesco's NIM was the least impact, down -86bps while Santander Brasil's declined by -259bps.

Figure 10: Changes in banks' NIM (1Q12-1Q14)

	1Q12	1Q14	change
LTM Avg Selic	11.8%	9.3%	-247 bps
NIM			
BB	6.9%	5.4%	-155 bps
Bradesco	7.9%	7.0%	-86 bps
Itaú	8.9%	7.1%	-178 bps
Santander Brasil	11.8%	9.2%	-259 bps
Aggregate	8.4%	6.9%	-148 bps

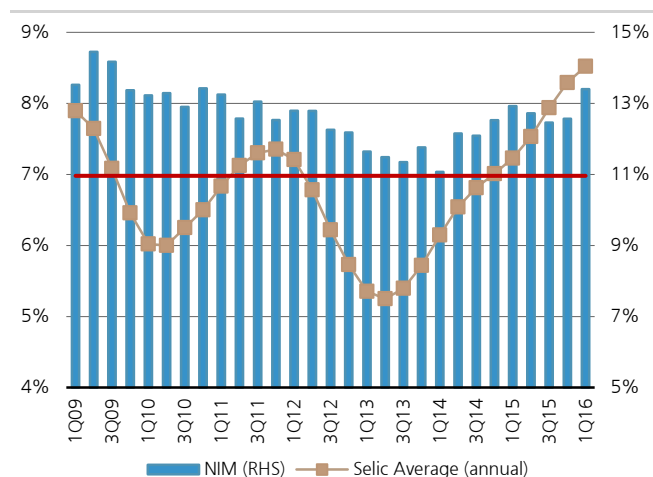
Source: Banks, Brazil Central Bank and UBS

Figure 11: BB NIM vs Selic rate (LTM average)



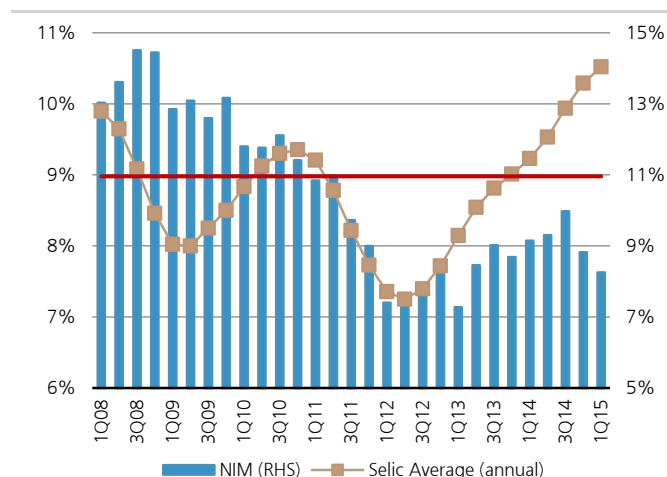
Source: Company, Brazil Central Bank and UBS

Figure 12: Bradesco NIM vs Selic rate (LTM average)



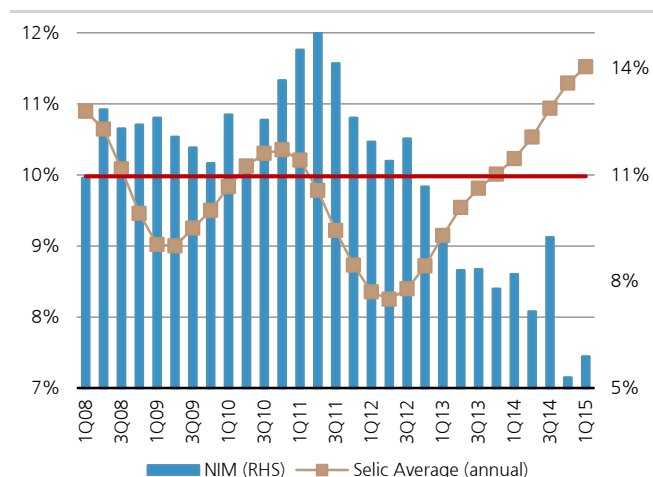
Source: Company, Brazil Central Bank and UBS

Figure 13: Itau NIM vs Selic rate (LTM average)



Source: Company, Brazil Central Bank and UBS

Figure 14: Santander NIM vs Selic rate (LTM average)



Source: Company, Brazil Central Bank and UBS

In terms of earnings, Bradesco's earnings CAGR (12-13) was the highest at 4.4%, followed by Itau at 4.0%. Santander Brasil's was the lowest at -10.3%.

Figure 15: Impact of lower Selic rate (2012-2013)

	NIM			NIM change 2013/2011	NII growth (% yoy)			Earnings growth (% yoy)		
	2011	2012	2013		2012	2013	CAGR (12-13)	2012	2013	CAGR (12-13)
BB	7.1%	6.7%	5.7%	-142 bps	12.4%	0.0%	6.1%	-1.9%	-10.2%	-6.1%
Bradesco	8.0%	7.8%	7.2%	-83 bps	11.4%	-1.2%	4.9%	2.9%	5.9%	4.4%
Itau	9.2%	8.4%	7.2%	-203 bps	3.3%	-7.4%	-2.2%	-4.1%	12.8%	4.0%
Santander Brasil	10.9%	11.5%	10.0%	0 bps	12.8%	-4.9%	3.6%	-9.1%	-11.5%	-10.3%
Aggregate	8.5%	8.1%	7.1%	0 bps	9.2%	-3.5%	2.7%	-2.3%	1.7%	-0.3%

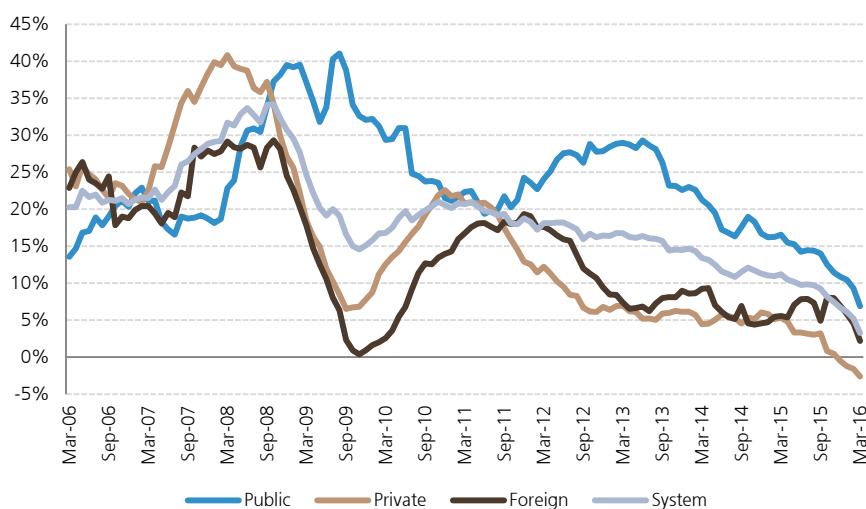
Source: Company data, UBS estimates

Q: Will competition remain rational?**UBS VIEW**

We believe competition and pricing behaviour will remain rational in the short to medium-term (i) as the re-pricing (up) of the back book of the lending portfolio is ongoing, led by public banks; (ii) given a lack of appetite to lend with prevailing macro uncertainties; while (iii) capital limitations among public banks, as illustrated by low core tier I ratios when compared to its peers will likely constrain the ability to expand their balance sheet, when economic activity eventually picks up.

EVIDENCE

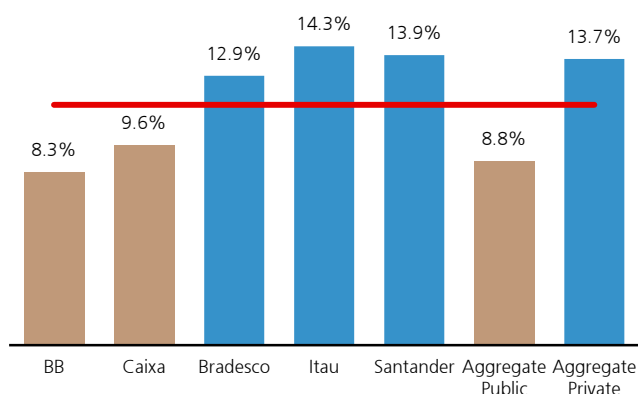
From our observation, the re-pricing (up) of the back book (i.e. outstanding loans) is still going on albeit coming closer to an end given the last Selic hike occurred in July 2015. We have also seen appetite to lend, especially among public banks decreasing sharply with the economy in recession: over the past year, loan growth for the system has declined to 3.3% yoy in March 2016 from 11.2% yoy in March 2015 with that for public banks falling to 6.9% from 16.6% over the same period.

Figure 16: Brazilian banks loan growth (% yoy)

Source: Brazil Central Bank

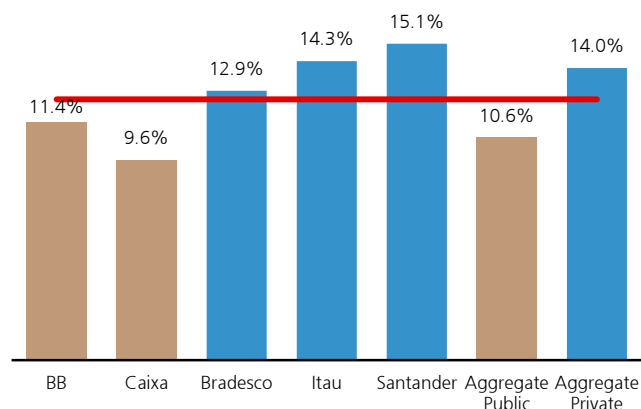
In terms of capital position, Banco do Brasil's core Tier 1 ratio of 8.3% is the lowest among the banks we cover. Although it currently meets the minimum local regulatory capital requirement of 5.125%, it is low by international standards. The low capital level was illustrated by the reduction in its dividend payout ratio from 40% to 25% in February 2016. Besides, looking ahead, minimum local core capital requirements rise sharply to 7.25% by the end of 2017, 8.75% by year-end 2018 and 10.5% at the end of 2019.

Figure 17: Core tier I – Public vs Private banks (as of 1Q16)



Source: Banks and UBS

Figure 18: Tier I – Public vs Private banks (as of 1Q16)

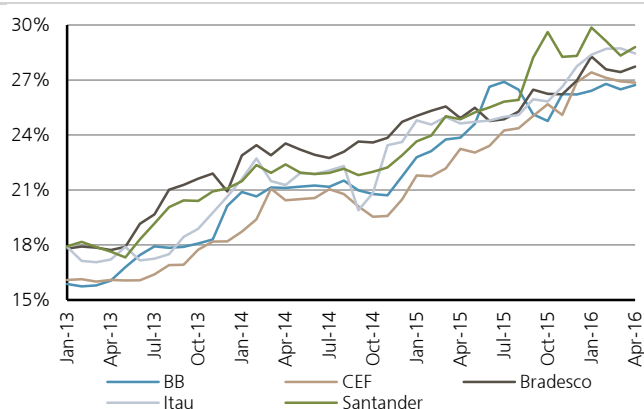


Source: Banks and UBS

Evidence of loan re-pricing

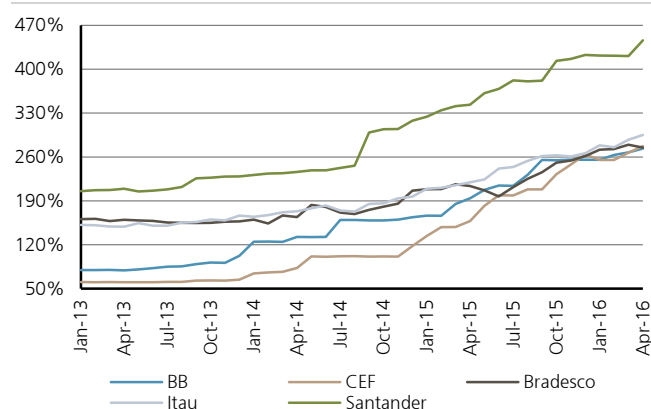
Over the last two years, we have seen banks re-price their lending rates across the board. The re-pricing process has been led by public banks (given their dominant market positioning), with private banks following.

Figure 19: Individuals – Auto loan lending rates (% p.a.)



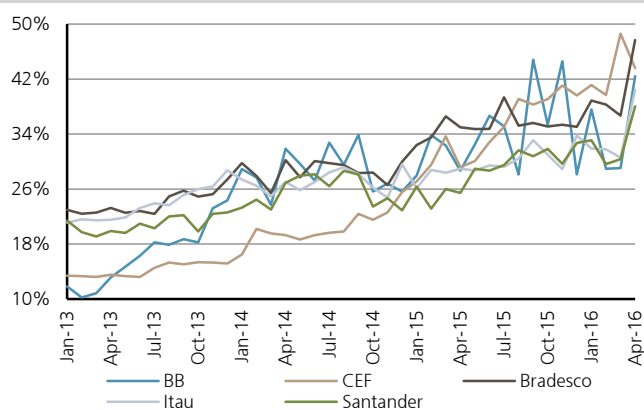
Source: Brazil Central Bank

Figure 20: Individuals – Overdraft lending rates (% p.a.)



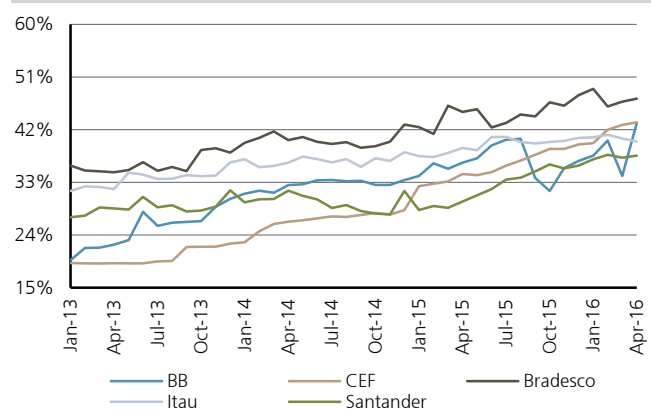
Source: Brazil Central Bank

Figure 21: Corporate – Working Capital rates (% p.a.)



Source: Brazil Central Bank

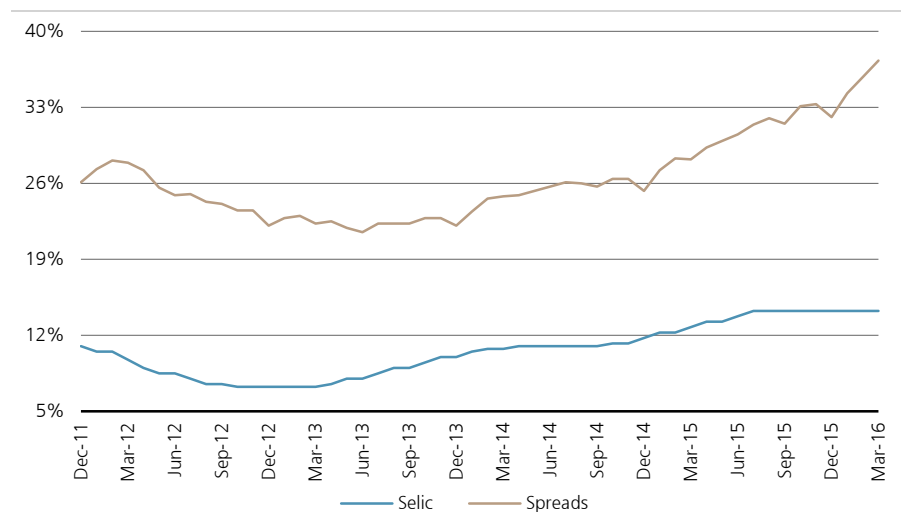
Figure 22: Corporate – Discounting of bill rates (% p.a.)



Source: Brazil Central Bank

The combination of a higher Selic and more rational pricing behaviour has resulted in system-wide spreads rising from 25.7% in June 2013 to 37.3% in March 2016 (590bps higher than July 2015 when Selic peaked), the historical high.

Figure 23: System spreads



Source: Brazil Central Bank. Note: Comprises new non-directed credit. Excludes operations with regulated rates, operations with funds from BNDES or any operations with government funds or funds with mandatory destination

These higher spreads paved the way for NIM expansion since 2Q14. Even with the beginning of the easing cycle, we should continue to see spreads to go up by 2-3 months given the positive impact in cost of funding.

Valuation

Our valuation methodology for banks is based on a Gordon growth model, which assumes for Brazilian banks an average sustainable ROE of 16.9%, average COE of 16.0% and a growth factor of 9.5%.

Currently, Brazilian banks trade on 9.0x PE and 1.2x PBV with 14.0% ROE on 2016 estimates. On 2017 estimates, they are on 7.9x PE and 1.1x PBV with 14.5% ROE.

Figure 24: Valuation summary

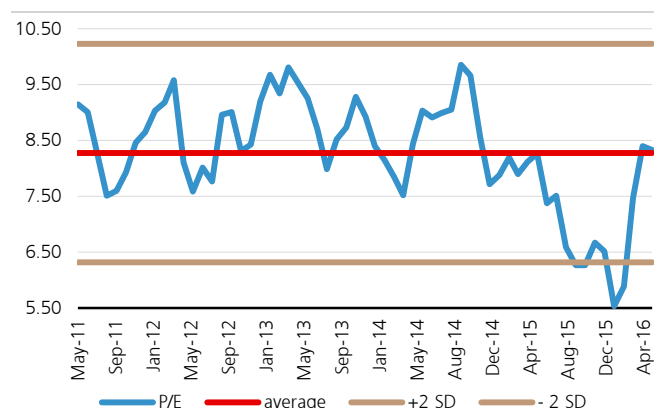
	Ticker	Rating	Price LC	Price Target LC	Upside (%)	Mkt Cap (USD millions)	P/E		P/BV		Adj. ROE (%)		Dividend Yield
							2016E	2017E	2016E	2017E	2016E	2017E	12-month Fwd (%)
Brazilian Banks													
Banco do Brasil	BBA3.SA	Sell (CBE)	17.73	16.00	-9.8	14,877	5.8x	4.7x	0.6x	0.5x	10.8	12.1	4.5
Bradesco	BBDC4.SA	Neutral	24.65	27.50	11.6	39,833	8.5x	7.9x	1.4x	1.2x	17.3	16.5	4.2
Itaú Unibanco	ITUB4.SA	Buy	30.47	36.00	18.1	52,692	9.1x	8.2x	1.6x	1.4x	18.4	18.6	4.4
Santander Brasil	SANB11.SA	Sell	17.85	16.00	-10.4	19,330	12.6x	10.9x	1.2x	1.2x	9.6	10.7	5.7
Mexican Banks													
Banorte	GFNORTEO.MX	Buy	95.97	109.80	14.4	15,043	13.8x	11.8x	1.8x	1.6x	13.8	14.4	1.6
Banregio	GFREGIOO.MX	Buy	103.91	115.00	10.7	1,860	16.2x	14.3x	2.7x	2.4x	17.8	17.8	1.9
Gentera	ENTERA.MX	Neutral	32.69	38.00	16.2	2,970	14.8x	13.1x	3.3x	2.9x	22.4	22.0	1.1
Inbursa	GFINBURO.MX	Buy	31.74	47.00	48.1	11,920	15.2x	13.0x	1.9x	1.7x	12.9	13.5	2.2
Santander Mexico	SANMEXB.MX	Buy	32.15	35.60	10.7	12,565	14.5x	13.3x	1.8x	1.7x	12.8	13.0	3.2
Unifin	UNIFINA.MX	Buy	49.84	62.00	24.4	962	16.1x	13.2x	3.6x	3.2x	23.8	25.7	1.6
Andean Banks													
Bancolombia	CIB.N	Sell	35.13	30.80	-12.3	8,659	11.3x	10.7x	1.3x	1.3x	12.8	12.9	2.9
Davienda	DVI	Buy	25,900	32,800	26.6	3,863	7.8x	7.1x	1.2x	1.1x	16.2	16.0	0.0
Credicorp	BAP.N	Buy	139.68	155.30	11.2	11,694	12.1x	11.1x	2.2x	1.9x	19.7	20.0	2.5
Santander Chile	BSAC.K	Neutral	18.49	19.90	7.6	8,725	11.9x	10.3x	2.0x	1.8x	18.2	19.5	5.0
Argentine Banks													
Galicia	GGAL.O	Neutral	26.20	36.00	37.4	2,606	9.3x	9.8x	2.5x	2.0x	33.3	27.9	4.1
Frances	BFR.N	Sell	18.42	21.00	14.0	3,418	11.6x	13.6x	2.8x	2.3x	29.1	23.2	1.7

Source: Company data, UBS estimates. Note prices as of 19 May 2016

Using 1-year forward consensus estimates, Brazilian banks have re-rated to 8.3x PE and 1.3x P/BV from 5.9x PE and 1.0x P/BV over the past 3 months.

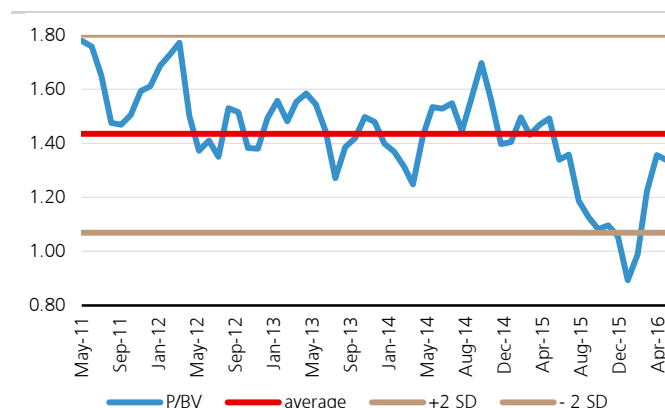
In PE terms, the sector is now in line with the five-year historical mean (at 8.3x PE) while in P/BV terms, it is at a 7% discount to its historical mean (at 1.4x).

Figure 25: Brazil banks: consensus 1-yr forward PE



Source: IB/E/S MSCI Aggregates, Thomson Financials DataStream, UBS

Figure 26: Brazil banks: consensus 1-yr forward P/BV



Source: IB/E/S MSCI Aggregates, Thomson Financials DataStream, UBS

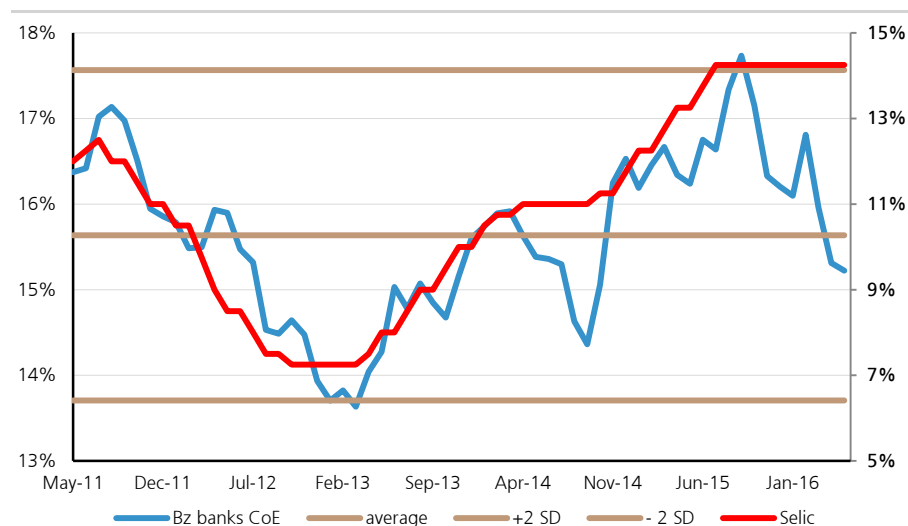
Implied COE for Brazilian banks

Brazilian banks' implied COE has also come down considerably over the past three months given improved risk appetite and expectations of political reforms. Today, it stands at 15.2%, down from 17.3% at the end of January 2016. This compares to a 5-year historical average of 15.7%.

Going forward, COE could come down further with a lower Selic, although the impact on share price performance would likely be constrained by negative earnings momentum such as that arising from potential margin pressure.

Over the past five years, Brazilian banks' implied COE troughed at 13.7% in February 2013, at a time when the Selic was at 7.25%. Given expectations for a sharp fall in the Selic, this suggests there is scope for COE to come down further although we note that the last time the Selic was at 10.5% (the level to which our Economics team forecasts the policy rate will fall by 2017), the implied COE for Brazilian banks was 15.7%, in line with the historical 5-year average.

Figure 27: Brazilian banks implied CoE vs Selic rate



Source: Brazil Central Bank, I/B/E/S MSCI aggregates, MSCI indices, Thomson Financials DataStream, UBS

Valuation Method and Risk Statement

Itau Unibanco PT is Gordon Growth Model derived, with a CoE of 15.5%, sustainable ROE of 20.0% and growth of 9.5%

Bradesco PT is Gordon Growth Model derived, with a CoE of 15.5%, sustainable ROE of 18.00% and growth of 9.5%

Santander PT is Gordon Growth Model derived, with a CoE of 16.2%, sustainable ROE of 16.4% and growth of 9.5%

Banco do Brasil PT is Gordon Growth Model derived, with a CoE of 16.9%, sustainable ROE of 13.25% and growth of 9.5%

Brazilian financials' performance is closely linked to local economic conditions and changes in interest rates and foreign exchange. Also, Brazilian financials may be affected by changes in regulatory framework and overall local and foreign competition..

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Sell	FSR is > 6% below the MRA.	14%	19%
Short-Term Rating	Definition	Coverage ³	IB Services ⁴
Buy	Stock price expected to rise within three months from the time the rating was assigned because of a specific catalyst or event.	<1%	<1%
Sell	Stock price expected to fall within three months from the time the rating was assigned because of a specific catalyst or event.	<1%	<1%

Source: UBS. Rating allocations are as of 31 March 2016.

1: Percentage of companies under coverage globally within the 12-month rating category.

2: Percentage of companies within the 12-month rating category for which investment banking (IB) services were provided within the past 12 months.

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Company Name	Reuters	12-month rating	Short-term rating	Price	Price date
Banco do Brasil ^{5, 7, 20, 22}	BBAS3.SA	Sell (CBE)	N/A	R\$17.31	20 May 2016
Bradesco ^{7, 16}	BBDC4.SA	Neutral	N/A	R\$24.38	20 May 2016
Itau Unibanco ^{7, 16}	ITUB4.SA	Buy	N/A	R\$30.08	20 May 2016
Santander Brasil ^{7, 16}	SANB11.SA	Sell	N/A	R\$17.67	20 May 2016

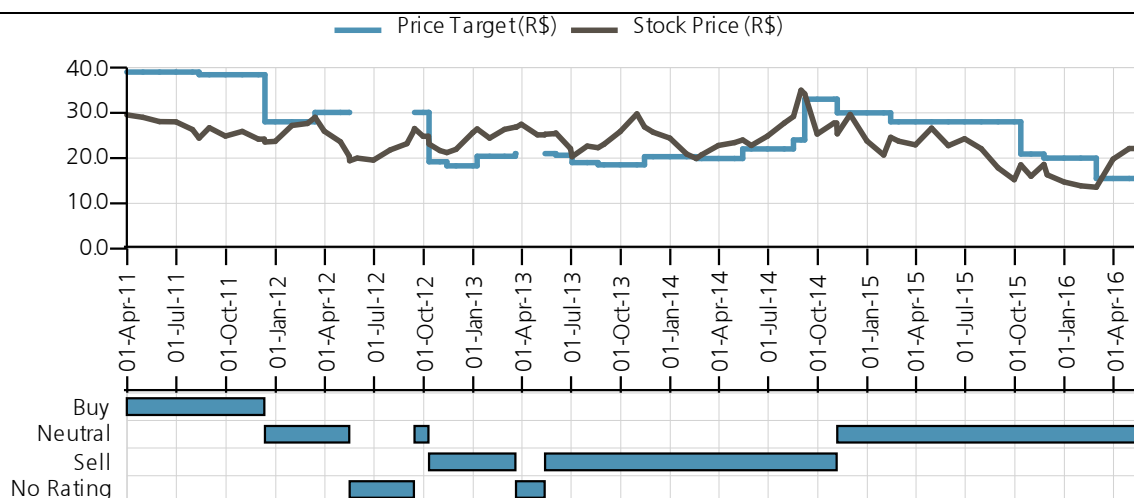
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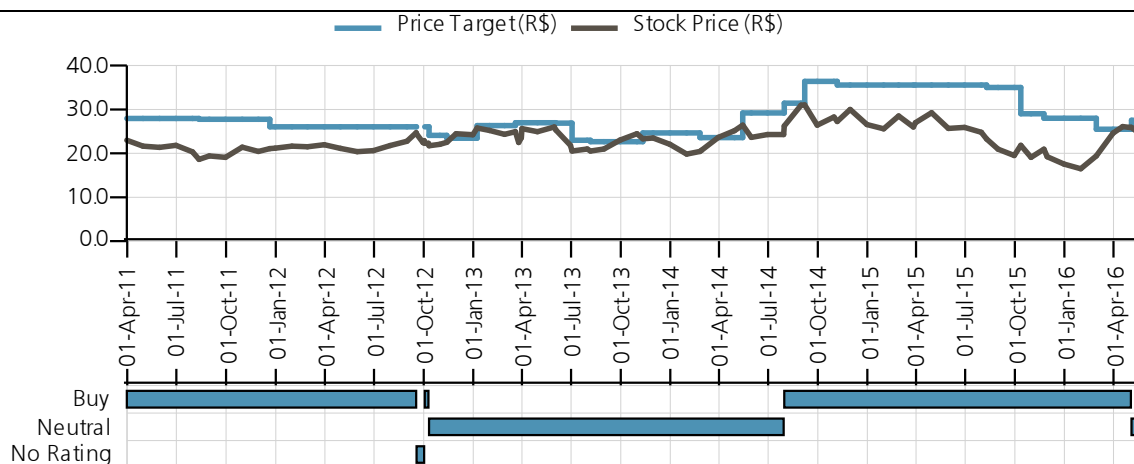
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Banco do Brasil (R\$)



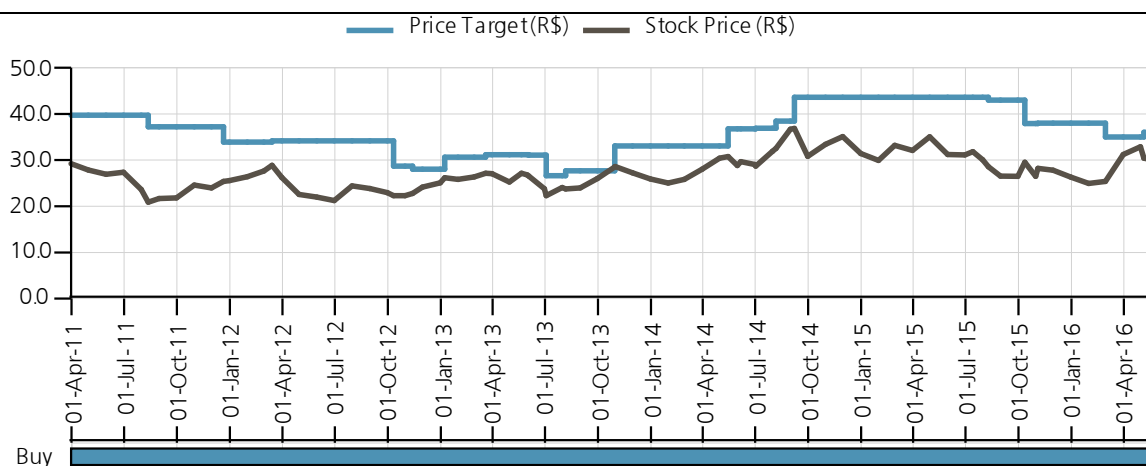
Source: UBS; as of 20 May 2016

Bradesco (R\$)



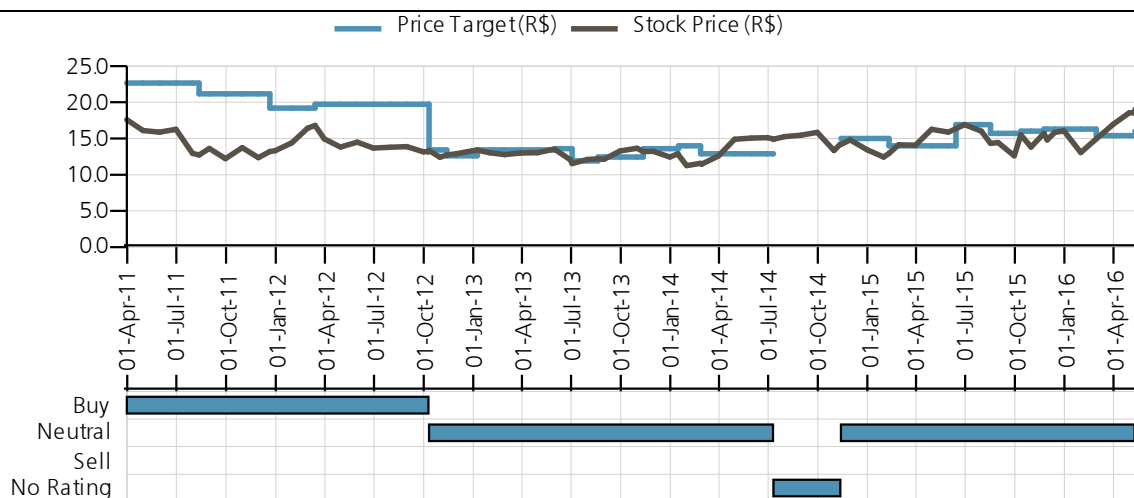
Source: UBS; as of 20 May 2016

Itau Unibanco (R\$)



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Santander Brasil (R\$)



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