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ARTICLE

WEALTH EFFECT OF MERGERS & ACQUISITIONS IN EMERGING MARKET: A CASE OF PAKISTAN'S BANKING SECTOR

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Abstract

This study investigates the short-term market response associated with the announcement of seven merger and acquisition deals in the banking sector of Pakistan during the period 2003 to 2008 using the event study methodology. The results indicate statistically significant investor reactions around the merger announcements. For individual target and bidder banks, the cumulative abnormal returns (CARs) range from significant positive to significant negative. The combined mean CAR for the bidder group is significant positive and for target group, the mean CAR is significant negative. The mean CAR for the combined banks in the domestic mergers is also positive but is largely impacted by the substantial positive CAR of one bidder bank.

Field of Research: Merger & Acquisition, emerging market, banking

JEL: G34, G21

Introduction

In the face of technological advancement, globalization, and increased competition, the firms all over the world are trying to maintain their competitive position. There is a growing trend towards consolidation to reap the benefits through synergies, thereby, enhancing efficiency and performance. The same trend has been observed in Pakistan. After the year 1998, a large number of mergers and acquisitions (M&A) have taken place every year in Pakistan and more than 50 percent of these M&A have taken place in the financial sector. This paper attempts to measure the short-term wealth effect of M&A for the target and bidder banks in Pakistan.

Literature Review

A lot of empirical research has been done to explore the wealth effect of merger activity in the developed economies, especially US, UK, and Europe. The studies conducted to analyze the wealth creation through mergers use different measures. One set of studies uses the event study methodology, looking at the short to medium run stock performance of the bidder, target and the merged entity. This methodology is based on the assumption of efficient market where the stock prices react in a timely and unbiased manner to new information (Fama, 1970; Roberts, 1967). The other set of studies looks at the accounting performance indicators, like return on equity and various cash flow measures, to compare the pre- and post-merger performance. Such studies believe that the gains or losses resulting

from a merger eventually appear in the firm's accounting records (Tuch and Sullivan, 2007). Both sets of studies have ended in variable results.

Short-run event studies including the US takeovers during 1960s (Asquith, 1983) and UK takeovers during 1950s (Franks and Harris, 1989) reported significant positive returns to the acquirers. However, the remaining event studies, both short run and long run, conducted on US and UK takeovers provide either no significant change or report significant negative returns for the acquirers (Tuch and Sullivan, 2007). On the other hand, the target firms' announcement returns in US and Europe are found to be large and significantly positive (Kiyamaz and Baker, 2008). According to these researches, the mergers merely transfer the wealth from the acquiring firms to the target shareholders and no wealth is created in process. A study covering 54 mergers including 13 European banking markets of European Union and the Swiss market for the period 1988 to 1997 has reported positive and significant increase in the shareholder wealth of bidder and target banks (Cybo-Ottone and Murgia, 2000). Campa and Hernando (2004) found a negative return around the bid announcement for the regulated European Union acquirers and reported no significant return for the bidders from unregulated industries. In Canada, the acquiring firms are reported to have positive returns (Ben-Amar and Andre, 2006).

The evidence from the research using accounting information is also mixed. Moreover, the researches using the accounting information are difficult to compare since they use different measures to capture the change in performance. The studies examining the post-bid accounting performance of the acquirers for the period between 1948-1977 in UK reported either a decline in the profitability following the merger (Meeks, 1977; Ravenscroft and Scherer, 1987) or significantly lower returns for the acquirers compared to the non-acquirers (Dickerson, 1997). The study by Healy (1992) reports an improvement in the asset productivity, measured through operating Cash flow return on market value of assets, of the acquiring firms in US. Andrade (2001) also finds an improvement in the post-merger performance, measured through ratio of cash flow to sales, for the US mergers. The study conducted by Altunbas and Marques (2004) on mergers taking place during the period 1992-2001 in Europe reported superior post-merger performance; however, the performance improvement following the cross-border mergers is reported to be more compared to the performance improvement of banks entering into domestic mergers.

The mixed evidence on the returns from mergers encouraged the researchers to examine the different bid characteristics to identify the drivers of differential performance. These studies report that for strategically closer institutions the performance improves more than for dissimilar institutions, thereby supporting the synergy hypotheses (Altunbas and Marques, 2004; Tuch and Sullivan, 2007). Moreover, in both the domestic and cross-border mergers the institutions performing very well prior to mergers are not able to improve their performance as much as the firms which are low performers before merger transactions. The studies also report that the hostile takeovers, where the takeover activity takes place despite of the target management's opposition, are associated with better performance if excessive takeover premiums are not paid. This can be taken as an indication that the hostile takeovers play a governance role and they target the firms where managers are under performing (Tuch and Sullivan, 2007).

Although there is extensive evidence available for developed countries on the issue, little research exists for the emerging and less developed economies. In a study of cross-border mergers and acquisitions by the Chinese firms positive and significant wealth gains

were found for the acquiring firms (Boateng, Qian and Tianle, 2008). Mishra and Goel (2005) in their study of a merger deal in Indian energy and petrochemical sector found that despite the deal appearing favorable to the shareholders of bidder company, the announcement returns for bidder were found to be negative. However, the returns for the target firm were positive. The combined firm was reported to have negative excess returns which were linked to the managerialism hypothesis, indicating that the acquirer's management is motivated by its own self-interest and is not pursuing the merger deal for their shareholders' benefit. In the Indian banking Industry, merger announcements were found to have a positive and significant wealth effect both for the bidder and the target banks (Anand and Singh, 2008). In Pakistan, a large number of mergers and acquisitions have taken place after the year 1998 and more than 50 percent of these transactions took place in the financial sector, including banks, leasing companies, modarabas, and mutual funds. This resulted mainly due to the State Bank of Pakistan's regulatory policies, which focused on consolidating the weak financial institutions by strengthening their capital base. The trend towards consolidation in financial sector is still continuing and therefore there is a need to study the wealth creation for the shareholders of targets and bidders in this sector. Building on the earlier studies done on the topic in developed and other less developed countries, we attempt to examine the wealth impact of bank merger deals in Pakistan.

Data and Research Design

Our research uses the standard event study methodology to measure the impact of merger announcements on the wealth of the merging firms' shareholders. To conduct the study, we consider the following seven mergers/acquisitions that took place in the banking sector of Pakistan during the period 2003 to 2008. Exhibit 1 illustrates the sample mergers with the respective announcement dates and the effective merger dates. We classify the sample mergers into three broad categories:

- I. *Acquisitions of Pakistani banks by the foreign investors* include the acquisition of Saudi Pak Bank (renamed as Silkbank) by a Consortium comprising of IFC, Bank Muscat, Nomura International and Sinthos Capital and the acquisition of Crescent Bank by SAMBA Financial group.
- II. *Mergers of Pakistani banks with the other domestic banks* include the merger of NIB and PICIC, the amalgamation of Trust Investment Bank Limited (TIBL) and Fidelity Investment Bank Limited (FIBL) together with the Doha Bank Pakistan Branches which created Trust Commercial Bank Limited and the acquisition of Platinum Commercial Bank Limited by KASB.
- III. *Mergers of Pakistani banks with the foreign banks operating in Pakistan* include the acquisition of Union Bank by the Standard Chartered Bank and the amalgamation of Prime Bank with ABN Amro.

The study tests the following hypothesis:

“The merger announcements in the banking sector of Pakistan do not create shareholders' wealth for the merging banks”

In order to test the hypothesis, the study requires the announcement dates for each of the seven mergers, the window period and the clean period data for each merger deal. *Announcement date (t=0)* is the date on which the information about the merger deal was

first made public. These dates are obtained from the news clipping available on the websites of Daily Business Recorder (www.brecorder.com.pk) and Daily Dawn (www.dawn.com.pk).

The event window has been taken from $t=-30$ to $t=+30$, where $t=-30$ represents 30 days before the merger announcement date ($t=0$) and $t=+30$ represents 30 days after the merger announcement is made. We employ the single-factor market model to compute the abnormal return for each bank stock in the 61-day window. The market model parameters are computed using an estimation period of 180 days before the window period for each participating firm. The period of 30 days prior to the announcement date is not included in this clean period to prevent the event’s influence on the parameter estimates.

Exhibit 1: Announcement dates and the bidder and target banks of sample merger deals

Serial Number	Bidder Bank	Target Bank/s	Announcement Date	Merger/ Acquisition Date
1	Consortium including Bank Muscat and Japan’s Nomura	Saudi Pak Bank	January 07, 2008	March 31, 2008
2	Samba Financial Group	Crescent Commercial Bank	Nov 17, 2006	March 31, 2007
3	NIB	PICIC Commercial Bank	June 29, 2007	Dec 31, 2007
4	Trust Commercial Bank (new entity)	Trust Inv.Bank Ltd, Fidelity Inv.Bank Ltd., and Doha Bank	August 06, 2003	May 05, 2004
5	KASB	Platinum Commercial Bank	February 25, 2003	May 08, 2003
6	Standard Chartered Bank (Pakistan),	Union Bank Limited	August 09, 2006	Dec 30, 2006
7	ABN Amro (Pakistan) Limited	Prime Commercial Bank	Mar 05, 2007	Sept 01, 2007

The following market model is employed for the parameter estimations:

$$AR_{it} = R_{it} - E(R_{it})$$

where, AR_{it} = Abnormal return for bank stock i on day t .

R_{it} = Actual return of bank stock i at time t .

$E(R_{it})$ = Expected return on bank stock i at time t . This is measured by the following equation: $E(R_{it}) = \alpha + \beta R_{mt}$

α = Ordinary least squares estimate of the intercept of the market model regression.

β = Ordinary least squares estimate of the coefficient in the market model regression.

Cumulative abnormal returns are used to explore whether the share holders of the each bidder and target bank gained or lost from the respective merger deal. These CARs are computed for the period surrounding the merger announcement (-30 to +30), i.e., from 30 days before the merger announcement to 30 days after the merger announcement, using the following equation:

$$CAR = \sum_{t=-30}^{t=+30} AR_t$$

To examine the wealth effect for the shareholders of the bidder banks group and target banks group, the daily average abnormal returns in a 60-day window is computed for the bidder block and the target block by using the following equation for arithmetic average:

$$AVG AR_t = \sum AR_{it} / n$$

Where, n = Number of banks in the bidder and target groups.

The cumulative average abnormal returns for the days surrounding the merger announcement (-30 to +30) is estimated for each group (bidder and target). The cumulative average abnormal returns for the event window is also computed for the target group in each category. Abnormal returns of the combined banks (for category 2¹) are calculated to assess the market expectations and reactions to the merger deals. The market values (i.e. market capitalization) of the bidder and target banks for the day before the merger announcement (t=-1) are used to compute the market value weights.² The weighted average cumulative abnormal returns are then estimated for each merger announcement.

The average AR (abnormal return) for each target and bidder bank, the average CAR (cumulative abnormal return) for each target and bidder, the average CAR for the target banks group and bidder group, the average CAR for the targets in each of the three M&A categories, and the CARs of combined entities are then tested for statistical significance using t-statistic.

Exhibit 2: Equity market value for bidder and target banks

S. No.	Bidder Bank	Target Bank/s	Market Capitalisation			Market Value Weights	
			Date (value as on)	Bidder Bank	Target Bank		
1	NIB	PICIC Commercial Bank	June 28, 2007	7,126,426,640	12,088,147,500	37.089%	62.911%
2	Trust Commercial Bank (new entity)	Fidelity Inv.Bank Ltd., and Doha Bank	August 05, 2003	422,476,200	357,075,000	54.195%	45.805%
3	KASB	Platinum Commercial Bank	February 24, 2003	575,446,500	492,800,000	53.868%	46.132%

Empirical Results

Exhibit 3A provides the details of the regression results for all target and bidder banks. These coefficients were used to estimate the expected returns for the respective bank during the event window. Exhibit 3B gives the mean residual return for each bank and the t-statistic. From the target group, Saudi Pak Bank and Prime Commercial Bank reported significant negative mean AR. For each of the other target banks, the mean AR is statistically insignificant. Exhibit 3C summarizes the mean CAR over the 61-day event window for each bank. From the target group, six banks out of seven are found to have significant and substantial positive or negative CAR. Saudi Pak Bank, Fidelity Investment, Union Bank and Prime Commercial Bank have shown significant negative mean CAR. Crescent Commercial and PICIC have earned significant positive mean CAR. In the bidder banks group, NIB has earned a substantial and statistically significant positive mean CAR, where as the other two banks, Trust Investment and KASB have earned significant negative mean CARs.

¹The required data is not available for the other two categories.

² Exhibit 2 illustrates the market value of equity as on the previous day of the merger announcement (t=-1)

Target and Bidder Groups:

Exhibit 4 presents the daily abnormal return and daily cumulative abnormal return for the target and bidder groups. Over the event window, the target group accumulated a CAR of -2.23%. A mixed trend in CAR can be observed from exhibit 4 for the target group during the 61 day event window. The CAR improved during the period of 20 days before the merger announcement by 4.65%. The CAR increased by 5.91% for the period (-1 to +1), i.e., from one day prior to announcement to one day after the merger announcement. CAR declined by 11.45% during the period (+2 to +30), i.e., from 2 days after the merger announcement to 30 days after the merger announcement. The mean CAR for the group is negative and significant. Exhibit 5 shows the announcement effects of bidder and target groups into various sub-periods within the event window. The period from 10 days prior to merger announcement till the date of merger announcement captures the highest increases in the share prices of target banks, following which the share prices have observed a sudden drop.

For the bidder group, the CAR is positive (21.07%) and statistically significant. This combined CAR is propped up due to a substantial positive CAR earned by PICIC. In relative terms, the CAR increased by 25.88% during the 24 days prior to the merger announcement (-24 to -1) and then declined by 4.6% during the 30 days following the merger announcement (+1 to +30). On the day of announcement (t=0), the bidder group earned a positive return of 0.63%.

Exhibit 3A

Summary Statistics-Bidder and Target Banks

	A	β
Target Banks		
Saudi Pak Bank	0.295	0.688
Crescent Commercial Bank	-0.147	0.993
PICIC	-0.017	1.160
Fidelity Investment Bank	0.480	-0.141
Platinum Commercial Bank	0.102	0.999
Union Bank	0.357	0.808
Prime Commercial Bank	0.484	0.645
Bidder Banks		
NIB	0.044	0.844
Trust Investment Bank	0.591	0.018
KASB	0.139	0.240

Exhibit 3B

Abnormal Returns-Bidder and Target Banks

	Mean AR	Standard Error	t-statistic
Target Banks			
Saudi Pak Bank	-0.387	0.188	-2.061*
Crescent Commercial Bank	0.617	0.396	1.559
PICIC	0.298	0.262	1.136
Fidelity Investment Bank	-0.514	0.543	-0.947
Platinum Commercial Bank	-0.082	0.442	-0.187
Union Bank	0.199	0.249	0.800
Prime Commercial Bank	-0.534	0.175	-3.051*
Bidder Banks			
NIB	1.596	0.416	3.838*
Trust Investment Bank	-0.452	0.503	-0.899
KASB	-0.107	0.354	-0.303

* significant at 5% level.

Exhibit 3C

Cumulative Abnormal Returns-Bidder and Target Banks

	Mean CAR	Standard Error	t-statistic
Target Banks			
Saudi Pak Bank	-14.075	0.537	-26.230*
Crescent Commercial Bank	31.860	1.355	23.513*
PICIC	12.501	1.041	12.009*
Fidelity Investment Bank	-5.650	1.533	-3.686*
Platinum Commercial Bank	0.129	0.829	0.155
Union Bank	-2.007	0.675	-2.973*
Prime Commercial Bank	-15.736	1.087	-14.483*
Bidder Banks			
NIB	65.582	3.674	17.851*
Trust Investment Bank	-2.460	1.163	-2.116*
KASB	-8.122	0.803	-10.109*

*significant at 5% level.

Exhibit 4: Daily and Cumulative Average Excess Returns for Target and Bidder Groups

Event Day	Average Excess Returns		Cumulative Average Excess Returns	
	Target Group	Bidder Group	Target Group	Bidder Group
30	0.330	1.483	-2.226	21.074
29	0.781	1.580	-2.557	19.591
28	0.928	-1.489	-3.338	18.011
27	-1.144	-1.250	-4.266	19.500
26	-0.125	0.056	-3.122	20.750
25	0.390	-0.374	-2.997	20.694
24	-1.389	0.726	-3.387	21.068
23	-1.572	4.695	-1.999	20.342
22	1.997	-0.110	-0.427	15.647
21	-0.987	-1.055	-2.424	15.757
20	-2.627	-1.626	-1.436	16.812
19	-0.191	-0.359	1.190	18.438
18	0.111	0.638	1.381	18.796
17	0.218	-0.579	1.269	18.158
16	-0.915	1.210	1.052	18.737
15	-1.417	-2.726	1.966	17.527
14	-0.503	-0.183	3.384	20.253
13	0.069	-3.705	3.886	20.436
12	-1.873	0.030	3.817	24.141
11	-0.344	-0.110	5.690	24.111
10	-0.182	-0.998	6.034	24.221
9	-0.387	0.660	6.215	25.219
8	0.375	1.528	6.603	24.558
7	0.289	0.818	6.228	23.030
6	-1.431	-2.941	5.938	22.212
5	-0.429	0.250	7.369	25.154
4	-1.036	-2.427	7.798	24.904
3	-0.133	-2.036	8.835	27.331
2	-0.252	-0.948	8.968	29.367
1	2.374	4.645	9.220	30.315
0	2.345	0.630	6.846	25.670
-1	1.193	-0.941	4.501	25.040

-2	-1.345	-0.688	3.308	25.982
-3	0.451	3.494	4.653	26.670
-4	2.272	-3.615	4.202	23.176
-5	-0.125	-0.723	1.931	26.791
-6	0.676	-0.504	2.055	27.514
-7	-0.839	1.474	1.379	28.018
-8	-0.323	1.869	2.218	26.545
-9	0.083	0.631	2.542	24.676
-10	0.749	0.931	2.458	24.044
-11	-0.677	-1.870	1.709	23.114
-12	2.070	2.978	2.386	24.984
-13	0.532	3.363	0.315	22.006
-14	-0.427	2.877	-0.217	18.644
-15	1.777	3.293	0.210	15.766
-16	-2.304	-1.514	-1.567	12.474
-17	-0.165	0.174	0.737	13.987
-18	2.780	1.447	0.902	13.813
-19	-2.084	0.962	-1.878	12.366
-20	0.359	1.140	0.206	11.405
-21	0.806	1.210	-0.152	10.264
-22	-0.280	2.362	-0.958	9.054
-23	0.329	4.415	-0.678	6.692
-24	-0.005	3.125	-1.007	2.277
-25	-1.282	1.238	-1.002	-0.847
-26	1.159	2.691	0.281	-2.085
-27	0.005	-1.783	-0.878	-4.776
-28	-0.578	-2.843	-0.883	-2.994
-29	0.514	-2.216	-0.305	-0.150
-30	-0.819	2.065	-0.819	2.065
Mean	-0.036	0.345	1.658	18.333

Exhibit 5 shows that the increase in CAR during the 20 days through 11 days prior to the announcement accounted for the highest proportion of the total increase in the event window. The positive trend in CAR continued till the announcement date. During the 20 days following the merger announcement (+1 to +20) the CAR declined which was followed by an increase in the CAR for the last 10 days in the event window (+21 to 30) and this increase accounted for 20.22% of the total increase.

The mean CARs for both the target and bidder groups, thus, are positive and significant at 5%. Anand and Singh (2008) found the same trend in their study for the bidders and targets of the Indian private sector banks.

Exhibit5: Announcement Effect of merger deals on target and bidder groups’ returns

CAR-Announcement Effect for Target and Bidder groups										
Sub-period	-30 to -21	-20 to -11	-10 to -1	0	+1 to +10	+11 to +20	+21 to +30	-30 to 0	0 to +30	-30 to +30
Target Group										
CAR	-0.15	1.86	2.79	2.35	-0.81	-7.47	-0.79	6.85	-9.07	-2.23
Announcement Effect (-30 to 0)	-2.22%	27.19%	40.78%	34.26%						
Announcement Effect (0 to +30)					-8.95%	-82.34%	-8.71%			
Announcement Effect (-30 to +30)	-10.35%	46.93%	73.39%	66.10%	-29.10%	-218.46%	-28.5%			
Bidder Group										
CAR	10.26	12.85	1.93	0.63	-1.45	-7.41	4.26	25.67	-4.60	21.07
Announcement Effect (-30 to 0)	39.98%	50.05%	7.51%	2.45%						
Announcement Effect (0 to +30)					-31.52%	-161.1%	92.71%			

Effect (0 to +30)					%	7%				
Announcement Effect (-30 to +30)	48.7%	60.97%	9.14%	2.99%	-6.88%	-35.16%	20.22%			

4.2. Targets in different categories:

Exhibit 6 gives the graph of the CARs for the three target bank categories and for the total target group. The table showing the ARs and the CARs for these three target bank categories is attached in the appendix. The CARs for the targets of foreign acquirers (category 1) are positive over the entire event window except for the 30th day prior to the merger announcement. The announcement effects for various sub-periods of the event window are given in exhibit 5B. For the targets of foreign acquiring banks, the group CAR increased during the period of 30 days prior to the merger announcement till the announcement day (-30 to 0), and for the period between the 1st day of announcement till 30 days (+1 to +30), it decreased. On the announcement day, the shareholders of these targets earned an abnormal return of 4.91%. The total CAR accumulated over the event window for the targets in foreign acquisitions is 7.01%.

Exhibit 6A: CARs for category-wise target groups and combined target group

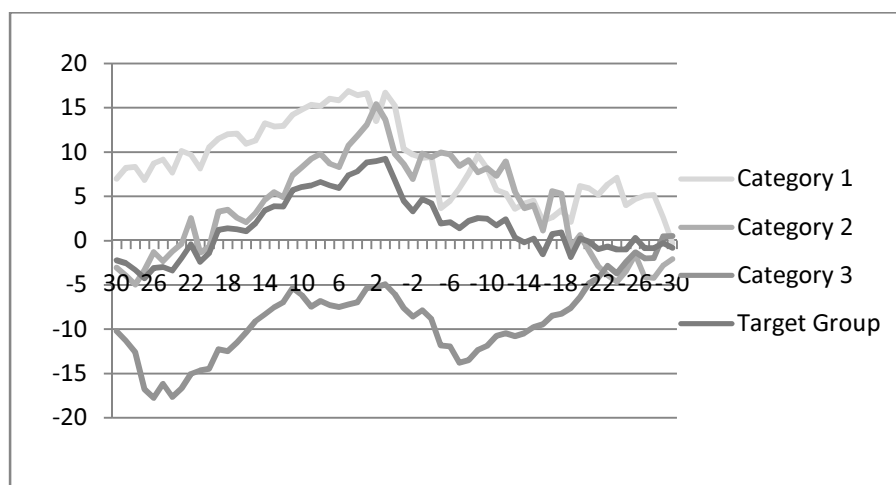


Exhibit 6B: Announcement effects of merger deals on returns of category-wise target banks

CAR-Announcement Effect for Category-wise Targets										
Sub-period	-30 to -21	-20 to -11	-10 to -1	0	+1 to +10	+11 to +20	+21 to +30	-30 to 0	0 to +30	-30 to +30
Targets in Category 1										
CAR	5.92	-0.20	4.62	4.91	-0.46	-4.27	-3.52	15.25	-8.24	7.01
Announcement Effect (-30 to 0)	38.78%	-1.28%	30.29%	32.21%						
Announcement Effect (0 to +30)					-13.71%	-128.11%	-105.67%			
Targets in Category 2										
CAR	-1.07	8.41	1.33	1.09	-1.49	-9.03	-2.35	9.76	-12.87	-3.06
Announcement Effect (-30 to 0)	-10.98%	86.20%	13.67%	11.12%						
Announcement Effect (0 to +30)					-11.59%	-70.18%	-18.23%			
Targets in Category 3										
CAR	-4.84	-5.91	3.15	1.59	-0.15	-8.33	4.27	-6.01	-4.20	-10.22
Announcement Effect (-30 to 0)	-80.53%	-98.35%	52.38%	26.51%						
Announcement Effect (0 to +30)					-3.52%	-198.12%	-101.64%			

In the domestic merger deals (category 2), the CAR accumulated over the event window is -3.06%. During the period of 30 days prior to the merger announcement till the announcement day (-30 to 0), the CAR increased by 9.76% and in the period between the 1st day of announcement till 30 days (+1 to +30), it decreased by 12.87%.

In the merger of domestic banks with the foreign banks operating in Pakistan (category 3), the targets earned a significant negative mean CAR (-10.22%). For the post event window, the CARs for these targets are negative. On the day of announcement, however, these targets earned an average abnormal return of 1.59%.

Combined banks:

The mean ARs and CARs for the three combined banks in domestic mergers are given in exhibit7. The mean CAR for the combined banks is positive and substantial. However, the combined CAR has been increased largely due to a very high CAR earned by the merger deal of NIB and PICIC. In the NIB-PICIC merger, the shareholders of both banks have accumulated substantial positive CARs, with a mean CAR of 32.2%. The returns earned by the bidder (PICIC), however, are much higher compared to those earned by the target shareholders. The other two merger deals have reported negative mean CARs showing that the merger deals accumulated losses for the combined entities. For these two merger deals, both bidders and targets reported negative CARs.

Exhibit7: Mean abnormal and cumulative abnormal returns of combined banks in domestic mergers


	NIB-PICIC	TRUST-FIDELITY	KASB-PLATINUM	Combined Group
Mean AR	0.779	-0.413	-0.096	0.090
Standard Error	0.237	0.474	0.277	0.2101
t-statistic	3.288*	-0.870	-0.347	0.4295
Mean CAR	32.188	-1.820	-4.316	8.684
Standard Error	1.919	1.195	0.481	0.745
t-statistic	16.772*	-1.523	-8.980*	11.657*

*significant at 5%

Summary and Concluding Remarks

The paper investigates the short-term value creation associated with the mergers and acquisitions in the banking sector of Pakistan from 2003 to 2008. The wealth for the shareholders of target and bidder banks is examined by estimating the abnormal returns and cumulative abnormal returns for a 61-day period surrounding the merger announcement. The study finds that the targets and bidders of the bank mergers in Pakistan accumulate significant returns associated with merger deals. For the individual target or bidder bank, these abnormal

returns range from significant positive to significant negative. For the combined target group, the study documents negative excess returns, where as for the combined bidder group, it reports positive mean cumulative return.

This is the first study of value creation surrounding the merger deals in the context of Pakistan's banking sector. However, the study includes a small sample of seven merger deals and examines the short term wealth effects. Future researches can be conducted on larger set of merger deals. The studies can also be conducted for the merger deals in other sectors of the market. Moreover, medium to long-term effects can also be examined either through the event study methodology or through examining the firms' accounting performance indicators before and after the merger deals. 

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APPENDIX 1: ARs and CARs of category-wise target banks

<i>Event Day</i>	<i>Category 1</i>		<i>Category 2</i>		<i>Category 3</i>	
	AR	CAR	AR	CAR	AR	CAR
30	-1.218	7.009	0.872	-3.058	1.065	-10.214
29	-0.106	8.227	1.025	-3.930	1.301	-11.280
28	1.469	8.332	-1.626	-4.955	4.218	-12.581
27	-1.877	6.863	-2.060	-3.330	0.963	-16.799
26	-0.408	8.740	1.042	-1.270	-1.593	-17.762
25	1.462	9.147	-1.062	-2.312	1.498	-16.169
24	-2.465	7.686	-0.931	-1.250	-1.000	-17.667
23	0.446	10.151	-2.888	-0.319	-1.617	-16.667
22	1.538	9.705	3.899	2.568	-0.397	-15.050
21	-2.363	8.167	-0.618	-1.331	-0.166	-14.653
20	-0.993	10.529	-3.987	-0.713	-2.220	-14.487
19	-0.508	11.523	-0.242	3.274	0.204	-12.268
18	-0.049	12.031	0.923	3.516	-0.945	-12.472
17	1.137	12.080	0.521	2.593	-1.155	-11.527
16	-0.362	10.943	-1.048	2.073	-1.268	-10.371
15	-1.932	11.305	-1.499	3.121	-0.780	-9.104
14	0.344	13.237	-0.877	4.620	-0.788	-8.324
13	-0.048	12.893	0.570	5.497	-0.566	-7.536
12	-1.279	12.941	-2.459	4.926	-1.587	-6.970

Business Review – Volume 9 Number 2				July – December 2014		
11	-0.577	14.221	-0.934	7.385	0.775	-5.382
10	-0.560	14.797	-0.933	8.319	1.324	-6.158
9	0.179	15.358	-0.578	9.252	-0.667	-7.482
8	-0.849	15.179	1.128	9.830	0.469	-6.815
7	0.199	16.028	0.406	8.702	0.206	-7.284
6	-1.065	15.829	-2.447	8.297	-0.275	-7.490
5	0.486	16.894	-1.154	10.743	-0.256	-7.216
4	-0.238	16.408	-1.213	11.897	-1.570	-6.959
3	3.148	16.645	-2.313	13.110	-0.143	-5.390
2	-3.209	13.497	1.763	15.424	-0.317	-5.246
1	1.452	16.706	3.850	13.661	1.081	-4.929
0	4.913	15.254	1.134	9.811	1.593	-6.010
-1	0.637	10.340	1.709	8.676	0.974	-7.603
-2	0.354	9.703	-2.891	6.968	-0.726	-8.577
-3	-0.122	9.349	0.440	9.858	1.040	-7.851
-4	5.811	9.471	-0.541	9.419	2.952	-8.892
-5	-0.863	3.661	0.225	9.960	0.090	-11.843
-6	-1.400	4.523	1.269	9.735	1.862	-11.933
-7	-1.651	5.923	-0.649	8.466	-0.311	-13.795
-8	-2.053	7.575	1.383	9.115	-1.153	-13.484
-9	1.459	9.628	-0.465	7.733	-0.470	-12.332
-10	2.450	8.169	0.855	8.198	-1.110	-11.861
-11	0.378	5.720	-1.630	7.342	-0.301	-10.752
-12	1.738	5.342	3.454	8.973	0.327	-10.451
-13	-0.583	3.604	1.846	5.519	-0.323	-10.778
-14	-0.310	4.187	-0.338	3.673	-0.677	-10.455
-15	2.276	4.497	2.853	4.011	-0.336	-9.778
-16	-0.415	2.221	-4.447	1.158	-0.979	-9.442
-17	-0.833	2.636	0.298	5.604	-0.191	-8.463
-18	1.350	3.469	6.032	5.306	-0.669	-8.271
-19	-4.043	2.119	-1.355	-0.726	-1.219	-7.602
-20	0.247	6.162	1.701	0.629	-1.542	-6.383
-21	0.724	5.915	1.806	-1.072	-0.612	-4.841
-22	-1.169	5.192	1.043	-2.878	-1.376	-4.228
-23	-0.740	6.361	0.700	-3.921	0.842	-2.852
-24	3.094	7.101	-1.213	-4.621	-1.293	-3.694
-25	-0.665	4.007	-1.837	-3.408	-1.066	-2.401
-26	-0.394	4.672	2.510	-1.571	0.684	-1.334
-27	-0.088	5.066	0.098	-4.080	-0.043	-2.018
-28	2.523	5.154	-1.399	-4.179	-2.449	-1.975
-29	2.893	2.631	-0.701	-2.780	-0.042	0.473
-30	-0.262	-0.262	-2.079	-2.079	0.515	0.515
Mean	0.115	8.893	-0.050	3.855	-0.167	-8.871