

# Attica Bank

Q3 update

## Balance sheet repair nears completion

Through the Artemis and Metexelixis securitisations, Attica's exposure to impaired loans has reduced significantly and now compares favourably with the larger Greek banks. Management forecasts common equity Tier 1 to increase from 12.2% to 13.2% at year end, representing significant headroom over regulatory requirements. Management will now move to the next stage of recovery, right-sizing the cost base and shifting the group's focus to the small and medium-sized enterprise market. Q3 results provide evidence of tight cost control and declining impairments. With Attica trading at 0.18x tangible book value, investors are taking nothing on trust.

Year end	PBT (€m)	Underlying PBT* (€m)	EPS* (€)	TBV per share (€)	P/E (x)	Price/TBV (x)
12/17	1.13	(67.91)	(0.01)	0.21	N/A	0.91
12/18e	7.85	(15.99)	0.01	1.03	20.1	0.18
12/19e	1.61	11.61	0.00	1.04	84.3	0.18
12/20e	29.97	29.97	0.05	1.10	4.1	0.17

Note: \*Excludes gain from securitisation, staff retirement compensation and associates.

## De-risked portfolio

Attica has significantly de-risked its portfolio through two securitisations. There is some residual exposure through €868m of senior notes issued by the special purpose vehicles (SPVs), but Aldridge and PIMCO, the distressed debt managers, were prepared to pay premiums to acquire the junior notes, pointing to the senior notes' position in the debt hierarchy and that they are well protected by over-collateralisation. We estimate net impaired loans left on the balance sheet will represent 89% of tangible book value, having reduced from 250% before the securitisation process. This reduction will become evident when the Metexelixis SPV is deconsolidated in Q418.

## Restructure and refocus

Q3 results show tight cost control and falling impairments compensating for declining revenues. Improved returns will be achieved through pricing leverage as the major Greek banks attempt to repair their profitability, normalisation of impairments as non-performing exposures reduce and voluntary retirement schemes to bring the cost/income ratio down to the industry level. Given Attica's size, achieving scale economies may difficult but progress should come from refocusing from the retail to the business market, a reduction in the branch network and digitalisation (see our initiation note, [Innovative approach to de-risking](#)).

## Valuation: Significantly out of line with peers

By 2020 we believe Attica will be generating a return on tangible book value of 4–5%, which will be comparable with the larger Greek banks. However, the current stock market valuation is considerably lower than peers, with the share price/tangible book value ratio at 0.18x. This compares with 0.1–0.3x for peers, with most concentrated at the top end of this range. Despite the recent rally, there is scope for further upside; our fair value of €0.27 per share implies 40% upside. Additional momentum could come from Greece's economic recovery reducing the excessive risk premium attached to bank equity.

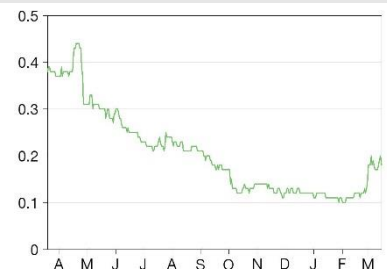
### Banks

18 March 2019

**Price** €0.19  
**Market cap** €88m

Common equity Tier 1 ratio	13.2%
Shares in issue	461.3m
Free float	18.5%
Code	TATT GA
Primary exchange	Athens
Secondary exchange	N/A

### Share price performance



%	1m	3m	12m
Abs	63.2	51.0	(53.3)
Rel (local)	48.3	35.4	(46.5)
52-week high/low		€0.44	€0.10

### Business description

Attica is the fifth-largest bank in Greece, with assets of €3.4bn and 55 branches centred around Athens. It has a 3% market share of business banking and around 1% market share of most retail banking products.

### Next event

Q4 results April 2019

### Analysts

Peter Toeman +44(0)20 3077 5700  
 Robert Murphy +44(0)20 3077 5733

[financials@edisongroup.com](mailto:financials@edisongroup.com)

[Edison profile page](#)

**Attica Bank is a research client of Edison Investment Research Limited**

## Q3 update: Balance sheet repair nears completion

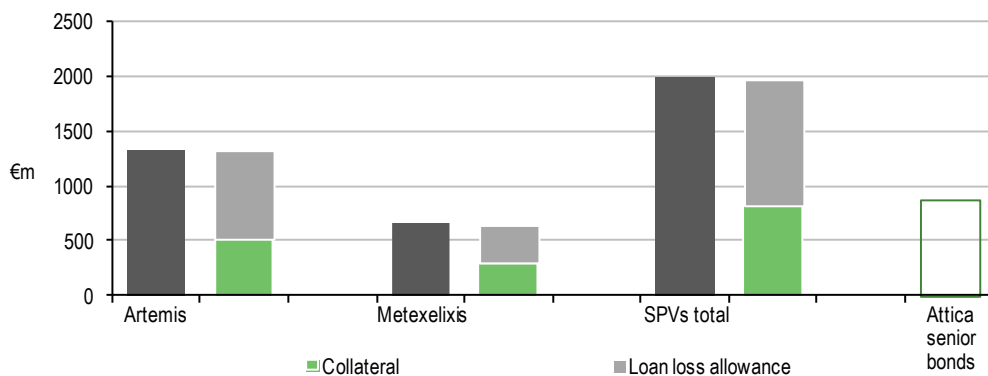
### Impact of securitisations

Attica has undertaken two successful securitisations (Artemis and Metexelixis), which represent significant steps towards de-risking the balance sheet. These transactions have seen slightly more than €2bn of impaired loans (80% of the total) placed in two SPVs. The SPVs financed their purchases with the issue of senior and junior notes to Attica.

The bank retains the two senior notes but sold the junior notes to Aldridge and Pimco (the distressed debt managers) at premiums to their written-down value. This indicates the distressed debt managers' conviction that liquidation of the SPV assets will be sufficient to repay the junior notes and, by implication, the senior notes. This positive outcome is made possible by the conservative provisioning that Attica has put in place. For example, the €1.3bn of non-performing exposures (NPEs) in the Artemis SPV were backed by an €0.8bn loan loss allowance and €0.5bn of collateral.

The bank holds almost €0.9bn of senior bonds, which will have first claim on the realisable value of the €2.0bn of NPEs within the SPVs. These NPEs have a written-down value (net of the loan loss allowance) of €0.8bn, which is supported by an equivalent amount of collateral. Consequently, provided the realisable value of collateral does not decline, there is every probability that the senior bonds, protected by their position in the debt hierarchy, will be repaid (Exhibit 1).

#### Exhibit 1: Collateral backing for NPEs in the SPVs should be sufficient to enable senior bonds to be repaid



Source: Edison Investment Research, Attica Bank

Nonetheless, the senior bonds still pose a risk to Attica because the accounting treatment is to fair value the bonds through other comprehensive income. They rank as level-three assets because key assumptions determining fair value (timing and quantum of collections, value of collateral and the discount rate) are not observable. Changes to assumptions in mirroring market conditions could have a significant impact on the valuation of the bonds and Attica's financial position. However, an adverse outcome seems unlikely given that residential and commercial property prices have been stable for several years. Also, the securitisation transactions are irrevocable, which means that whatever happens to the SPV loans they will never come back on to Attica's balance sheet.

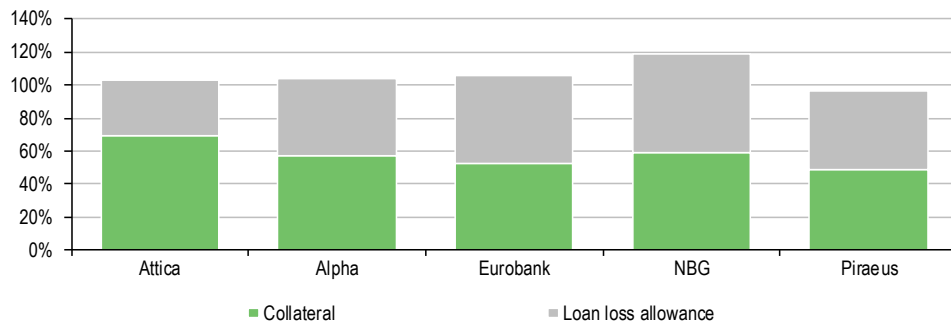
## Residual loan exposure

Exhibit 2: Pro forma residual balance sheet exposure post Metexelixis deconsolidation				
€m	2017*	Q318	Metexelixis	Pro forma
Business	964	965	(605)	360
Mortgage	312	285	(8)	277
Consumer	113	112	(54)	58
<b>Non-performing exposure (NPE)</b>	<b>1,388</b>	<b>1,361</b>	<b>(666)</b>	<b>695</b>
Gross lending	2,667	2,594	(666)	1,927
Loan loss allowance (LLA)	475	579	(345)	234
Collateral	867	783	(303)	480
<b>LLA/NPE</b>	<b>34%</b>	<b>43%</b>		<b>34%</b>
<b>LLA+ Collateral/NPE</b>	<b>97%</b>	<b>100%</b>		<b>103%</b>
NPE/gross lending	52%	52%		36%

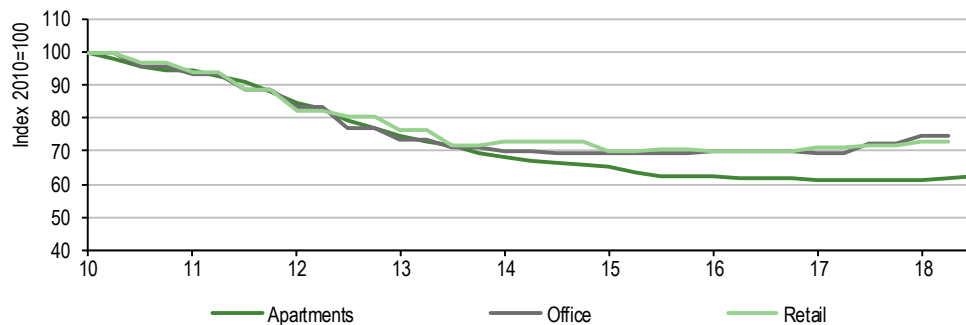
Source: Attica Bank. Note: \*Under IAS 39 rather than IFRS 9.

The Metexelixis transaction was finalised in the autumn of 2018, although that was too late for deconsolidation of SPV assets to appear in the Q3 balance sheet. To clarify the position, Attica published a pro-forma balance sheet showing its position post Metexelixis (Exhibit 2). This reveals a residual NPE exposure of €695m covered 34% by the loan loss allowance. Taking account of collateral and the loan loss allowance, overall coverage rises to 103%. This is comparable to the level of NPE coverage at other Greek banks, although proportionately Attica is more dependent on collateral (Exhibit 3). As a proportion of gross lending, at 36% residual NPE exposure compares with an average for the major Greek banks of 44%.

Exhibit 3: Loan loss allowance and collateral coverage of NPEs



Source: Attica Bank, Alpha, Eurobank, NBG and Piraeus

**Exhibit 4: Long-term stability of commercial and residential prices continues**


Source: Bank of Greece

Collateral is extensive and diverse; of the €480m, €270m is residential property, whereas the €170m relating to businesses includes commercial property, guarantees, securities and bank deposits. Collateral is predominantly residential and commercial property. The critical point is that property valuations do not decline, otherwise Attica would be compelled to add to its loan loss reserve through a P&L charge. In this regard, Attica's residual risk is similar to its exposure through the senior bonds where the mark to market also depends on the valuation and realisation of collateral. Fortuitously, prices of residential and commercial real estate have been stable for several years despite the major banks also running their own extensive work-out programmes (Exhibit 4).

## Capital now looks better

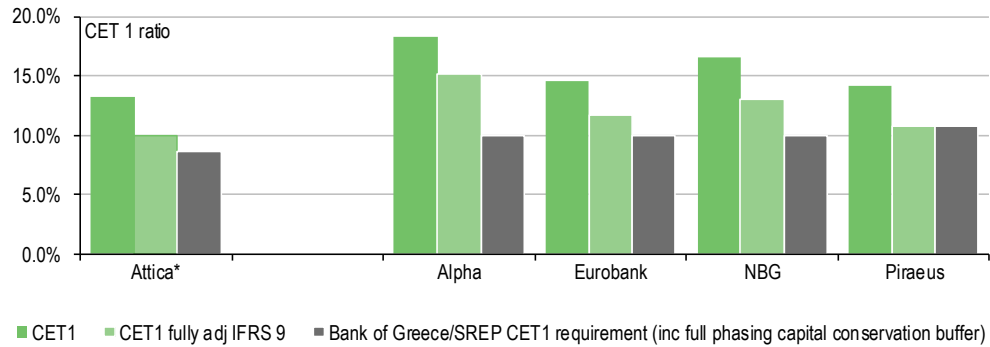
Common equity Tier 1 is 12.2%, but management expects a year-end figure of 13.2% once the gain on the disposal of the Metexelixis junior bond is booked in the fourth quarter.

As a non-systemic institution, Attica's capital requirements are set by the Bank of Greece rather than the European Central Bank, and are significantly lower than for the large Greek banks. Attica's minimum CET1 requirement was 8.0% in 2018 but will rise to 8.6% following the requirement for banks to apply the full capital conservation buffer.

Against this benchmark, Attica's 13.2% appears to give ample headroom. However, a further adjustment is necessary. Along with its peers, Attica Bank is phasing the adverse impact of IFRS 9 into its capital base over five years (5% in 2018, 15% in 2019 and so on) with the result that fully adjusted CET1 will be approximately 3.2pp lower than the current figure. On this basis, Attica's ratio of 10.0% is lower than the comparable ratios of major Greek banks but to some extent this is balanced by the group's lower regulatory requirements (Exhibit 5).

On the positive side, the €868m of senior bonds acquired through securitisations attract 100% risk weightings. Their repayment would remove around one-quarter of the group's risk weighted assets (RWAs), adding around 4.5pp to CET1. However, it could be 10 years before Attica sees this benefit and, more immediately, the capital position faces the amortisation of deferred tax credits, which will depress the CET1 ratio by 0.3% per year.

**Exhibit 5: Current CET1 ratios, CET1 fully adjusted for IFRS 9, and regulatory requirement**



Source: Attica Bank, Edison Investment Research

## Deposit inflows eliminate emergency liquidity assistance funding

As confidence in the economy recovers, the banking system is enjoying strong deposit inflows. Attica's customer deposit growth began its upward trajectory in mid-2017 and was running at 15% year-on-year in Q318. Growth has come primarily from household sector time deposits. As a result, the loan-to-deposit ratio has declined from 114% (end 2017) to 95.4%. We estimate that deconsolidation of the Metexelixis SPV will drive the ratio down to around 80%.

A further benefit from the influx of liquidity is reduced reliance on emergency liquidity assistance (ELA), which stood at €500m at the end of the quarter and was reported as €176m (6.4% of total deposits) in mid-December. This puts Attica on a comparable footing to the major Greek banks which have repaid, or are close to repaying, their ELA liabilities.

## Rebuilding profitability

### Q318

Overall Attica produced a pre-tax loss €37.9m for the first nine months of 2018 (Exhibit 6). This compares with a profit of €12.2m for the comparable period of 2017, but the latter figure includes the €70m gain from the Artemis securitisation. For 2018 the corresponding gain on the Metexelixis securitisation will only be booked in the fourth quarter and should enable Attica to report a pre-tax profit for the full year. Because of the distorting influence of these gains, we define an underlying result that excludes securitisation gains, staff retirement compensation and associates. We estimate the underlying pre-tax loss for 2018 will be close to €16m, which is a material improvement on the €68m loss recorded for the prior year.

Net interest income was down 6% for the first nine months of 2018. We believe the principal factor here is interest foregone on impaired loans. With the introduction of IFRS 9, loans are no longer classified as impaired or non-performing but these categories would approximately correspond with Stage 3 loans under the new accounting regime. Attica's loan book was flat through 2018 but Stage 3 loans increased from 45% to 52% of the portfolio (an increase of €170m), which would be more than sufficient to explain the magnitude of the net interest income decline. The extent to which the increase in Stage 3 loans reflects an underlying deterioration in credit quality or a change in methodology under the new accounting regime is uncertain but the steep decline in the nine-month impairment charge (€24.6m vs €62.7m) points to the latter.

**Exhibit 6: Attica's earnings model**

€000s	9mths		% chg	FY17		FY18e		% chg	FY19e		FY20e	
	Sep-17	Sep-18		Dec-17	Dec-18	Dec-19	% chg		Dec-20	% chg		
Interest income	97,595	90,338		137,302	125,318		122,737		126,167			
Interest expense	(38,258)	(34,269)		(50,310)	(48,601)		(38,352)		(34,637)			
Net interest income	59,337	56,069	(6)	86,992	76,717	(12)	84,386	10	91,531	8		
Net fees and commissions	9,688	4,389	(55)	10,626	5,589	(47)	5,868	5	6,162	5		
Profit from financial transactions	944	958		1,334	1,258		1,500		1,500			
Profit from investment portfolio	22	594		155	894		600		600			
Other income	(770)	581		(2,478)	781		500		700			
Gain from securitisation	70,000	-		70,000	47,000		-		-			
Operating income	70,196	2,133	(97)	69,010	49,933	(28)%	2,600	(95)	2,800	8		
Personnel expenses	(27,379)	(25,916)		(38,554)	(33,369)		(29,927)		(24,370)			
Staff retirement compensation	-	(17,214)		(20,000)	(20,000)		(10,000)		-			
General operating expenses	(21,218)	(21,007)		(31,051)	(27,946)		(26,549)		(25,221)			
Depreciation	(4,781)	(5,705)		(6,511)	(7,488)		(7,862)					
Costs	(53,378)	(69,842)	(31)	(76,116)	(88,803)	(17)	(74,338)	16	(57,847)	22		
Impairment charge for loans	(62,700)	(24,620)	61	(73,500)	(29,551)	60	(16,904)	43	(12,678)	25		
Impairment other assets	(10,038)	(2,878)		(14,925)	(2,878)		-		-			
Associates	(905)	(3,154)		(953)	(3,154)		-		-			
Pre-tax profit	12,201	(37,903)	N/A	1,134	7,853	592	1,613	(79)	29,968	18		
Adjustments	(69,095)	20,368		(69,047)	(23,846)		10,000		-			
Underlying pre-tax profit*	(56,894)	(17,535)	69	(67,913)	(15,993)	76	11,613	n/a	29,968	n/a		
Pre-tax profit	12,201	(37,903)		1,134	7,853		1,613		29,968			
Taxation	(4,753)	1,183		(704)	(3,502)		(573)		(8,796)			
Non-controlling interests	(9,033)	-		(12,260)	-		-		-			
Attributable	(1,585)	(36,720)		(11,830)	4,351		1,040		21,172			
shares ranking m	2,339	1,247		2,339	461		461		461			
EPS (€)	(0.0007)	(0.0294)		(0.005)	0.009		0.002		0.046			
Cost/Income*	77%	84%		79%	81%		69%		58%			
Shareholders' equity	638,548	583,887		632,705	524,759		525,799		546,971			
Intangibles	46,670	50,075		46,668	50,075		44,834		39,330			
preference shares	100,200	100,200		100,200	-		-		-			
Net tangible assets	491,678	433,612		485,837	474,684		480,965		507,641			
Net tangible assets per share	0.21	0.94		0.21	1.03		1.04		1.10			
CET1 capital	524,700	413,946		503,618	448,137		448,669		464,362			
Risk weighted assets €m	3,498	3,393		3,421	3,393		3,393		3,494			
CET1 ratio	15.0%	12.2%		14.7%	13.2%		13.2%		13.3%			
Return on net tangible assets	(0.4)%	(10.1)%		(2.4)%	0.9%		0.2%		4.4%			

Source: Attica, Edison Investment Research estimates. Note: \*Excludes gain from securitisation, staff retirement compensation and associates.

The nine-month figures also show evidence of tight cost control if staff retirement compensation is excluded. The group headcount began 2018 at around 800 but has shrunk by around a quarter. The decline in fee and commission income reflected an abnormal level of construction guarantee income in the 2017 comparative. The principal balance sheet feature to emerge from Q3 figures was the acceleration of deposit inflows to 15%, which reduced the loan/deposit ratio and facilitated reduction in ELA funding.

**Exhibit 7: Greece economic performance and consensus forecasts**

	2015	2016	2017	2018	2019e	2020e
Real GDP growth (%)	(0.2)	(0.3)	1.4	2.1	1.9	1.8
CPI (%)	(1.1)	0	1.1	0.8	1.0	1.2
Unemployment (%)	24.9	23.6	21.5	19.5	18.0	16.5
Current acc % GDP	0	(0.5)	(0.6)	(1.2)	(1.0)	(1.0)
Fiscal balance % GDP	(5.7)	0.5	0.8	0.5	0.1	0.2

Source: Refinitiv

## Outlook

Greece's economy grew at an estimated 2.1% in 2018 and is expected to continue at this pace over the coming years, contingent on the continuing implementation of reforms. The labour market has

been improving steadily with unemployment falling below 20%. Although this positive for impairments, it is unlikely the deleveraging of household and corporate balance sheets will reverse. However, even without lending growth, there are four factors that could help Attica achieve a modest revenue progression:

- A stabilisation in the volume of Stage 3 'impaired' loans, which is conceivable given improving economic sentiment and declining unemployment.
- The 3% coupon on the senior bonds may provide more interest income than the interest forgone on non-performing exposures placed in the SPVs.
- Attica has some pricing leverage on the liability side of its balance sheet now that deposits that inflows have become more dependable, and offered rates are more generous than the competitors' (average term deposit 1.36% compared with the major Greek banks at 0.7–0.9%).
- Likewise, there may be scope to improve asset yields as competitor banks are highlighting a healthy differential between the pricing of new business and the existing stock.

In addition, there are two critical factors that should help Attica achieve significant improvement in profitability:

- The second voluntary retirement scheme launched in 2018 will facilitate a decline in the cost base this year, because of averaging effects. We believe a third scheme will be implemented in 2019 to facilitate scaling back the retail bank.
- Impairments should diminish, reflecting the impact of the two securitisations that have reduced exposure to the collateral underpinning impaired loans.

On our estimates, the combination of these developments could result in Attica pushing its cost/income ratio down from 80% to below 60% and achieving close to a 5% return on tangible book value equity by 2020. The cost/income ratio is materially out of line with other Greek banks (Exhibit 9) and, although it may stem from the difficulties of achieving scale economies in a small institution, it will need to be addressed. Progress is also being made to reduce other operating costs facilitated by a reduction in the branch network, and the process of digitalisation. The projected mid-single digit return is in line with analysts' estimates for the major Greek banks.

Relative to our previously published forecasts (see our initiation note, [Innovative approach to de-risking](#)), we are more positive on 2018 reflecting tighter cost control and declining impairments evident in Q318 figures. However, we take a more cautious view of future revenue growth extending the timescale over which lending assets and deposits re-price.

<b>Exhibit 8: Change in estimates</b>						
€000s	FY18e		FY19e		FY20e	
	Old	New	Old	New	Old	New
Revenue	86,543	85,239	96,932	92,854	105,271	100,493
Costs	(70,195)	(68,803)	(65,916)	(64,338)	(59,348)	(57,847)
Impairment	(36,939)	(29,551)	(17,000)	(16,904)	(13,005)	(12,678)
Other	(378)	(2,878)	-	-	-	-
<b>Underlying pre-tax profit</b>	<b>(20,969)</b>	<b>(15,993)</b>	<b>14,016</b>	<b>11,613</b>	<b>32,918</b>	<b>29,968</b>

Source: Edison Investment Research. Note: Underlying pre-tax profit excludes gain from securitisation, staff retirement compensation and associates.

## Valuation: Discount to peers

Before discussing valuation, it is worth comparing Attica to its immediate quoted peer group. In doing this we have relied on nine-month data for 2018 adjusted, where possible, to exclude non-recurring revenues and costs and discontinued operations or those subject to disposal. The key feature of all these institutions is that they are either loss making or only marginally profitable. This

is mainly because of impairment charges, but for Attica there is also the problem of a relatively high cost/income ratio.

After allowing for the Metexelaxis transaction, Attica will have a liquid balance sheet (75% loan to deposit ratio) and modest levels of Stage 3, or impaired, loans. Although it is not strictly correct to deduct all the loan loss allowance (LLA) from Stage 3 loans (because part is allocated to Stage 1 and part to Stage 2 lending), this approach leaves the unprovided element of Stage 3 at 99% of tangible book value. This falls to 89% if allowance is made for regulatory surplus capital and compares with a peer group range of 97–294%.

Plotting the unprovided impaired loans against net tangible book demonstrated price/tangible book valuations for Greek banks are correlated with this metric and explains why the valuations are so low (Exhibit 11). On the basis of peer group comparison, Attica should be trading at around 0.27x tangible book value or 40% higher than the current level.

<b>Exhibit 9: Attica vs peer group</b>						
<b>9M18 (€m)</b>	<b>Attica</b>	<b>Alpha</b>	<b>Eurobank</b>	<b>NBG</b>	<b>Piraeus</b>	<b>Bank of Cyprus</b>
Underlying revenue	60	1,384	1,109	1,387	1,387	600
Underlying costs	(53) <sup>a</sup>	(757)	(713)	(745)	(745)	(291)
Impairment	(25)	(513)	(239)	(461)	(461)	(128)
Underlying PBT	(18) <sup>a</sup>	114	67	181	181	181
Nominal tax @ 29%		(33)	(19)	(52)	(52)	(52)
Non-controlling interest			(27)	4	4	3
<b>Attributable</b>		<b>81</b>	<b>21</b>	<b>133</b>	<b>133</b>	<b>132</b>
Impairment/loans	1.7%	1.5%	0.8%	1.2%	1.2%	1.3%
Cost/Income	87%	55%	70%	54%	54%	49%
<b>Return on tangible book value</b>	<b>N/A</b>	<b>2%</b>	<b>1%</b>	<b>4%</b>	<b>4%</b>	<b>8%</b>
CET1	448 <sup>b</sup>	5,577	5,700	6,700	6,700	1,900
RWAs	3,393	38,239	35,000	47,400	47,400	14,400
CET1 ratio	13.2%	14.6%	16.6%	14.2%	14.2%	13.2%
CET1 ratio ex IFRS 9 adj	10.0%	11.7%	13.1%	10.8%	10.8%	12.6%
Est regulatory requirement	8.6%	10.0%	10.0%	10.8%	10.8%	10.0%
Surplus capital	47	650	1,085	24	24	374
<b>Surplus % tangible book value</b>	<b>10%</b>	<b>13%</b>	<b>22%</b>	<b>0%</b>	<b>0%</b>	<b>18%</b>
Deposits	2,750	36,388	42,000	42,900	42,900	16,850
Of which ELA funding	500	3,800	0	0	0	0
Loans/deposits	75% <sup>b</sup>	110%	72%	91%	91%	65%
Stage 1	845	20,300	15,370	18,400	18,400	4,400
Stage 2	390	7,300	7,830	5,900	5,900	4,000
Stage 3	695 <sup>b</sup>	17,700	16,740	28,500	28,500	5,000
Gross loans	1,930	45,300	40,091	52,800	52,800	13,400
LLA	(234) <sup>b</sup>	(9,383)	(9,959)	(13,917)	(13,917)	(2,400)
Net loans	1,696	35,917	30,132	38,883	38,883	11,000
<b>Stage 3 less LLA % tan book value</b>	<b>99%</b>	<b>172%</b>	<b>138%</b>	<b>295%</b>	<b>295%</b>	<b>124%</b>
Shareholders' funds	517	5,059	5,051	5,240	5,240	2,253
Goodwill, intangibles	(50)	(211)	(146)	(293)	(293)	(36)
Tangible book value	467 <sup>b</sup>	4,848	4,905	4,947	4,947	2,217
Shares in issue (m)	461.3	2,184	915	437	437	446
TBV per share (€)	1.01	2.22	5.36	11.33	11.33	4.97
Market capitalisation	88	1,433	1,529	620	620	624
<b>Unprovided stage 3 less surplus (%)</b>	<b>89%</b>	<b>158%</b>	<b>116%</b>	<b>294%</b>	<b>294%</b>	<b>100%</b>
<b>Price/tangible book value</b>	<b>0.19</b>	<b>0.30</b>	<b>0.31</b>	<b>0.13</b>	<b>0.13</b>	<b>0.28</b>
<b>P/E (x)</b>	<b>N/A</b>	<b>13.3</b>	<b>55.8</b>	<b>3.5</b>	<b>3.5</b>	<b>3.6</b>

Source: Attica, Edison Investment Research. Note: <sup>a</sup>excludes staff retirement compensation; <sup>b</sup>pro forma post-Metexelaxis.



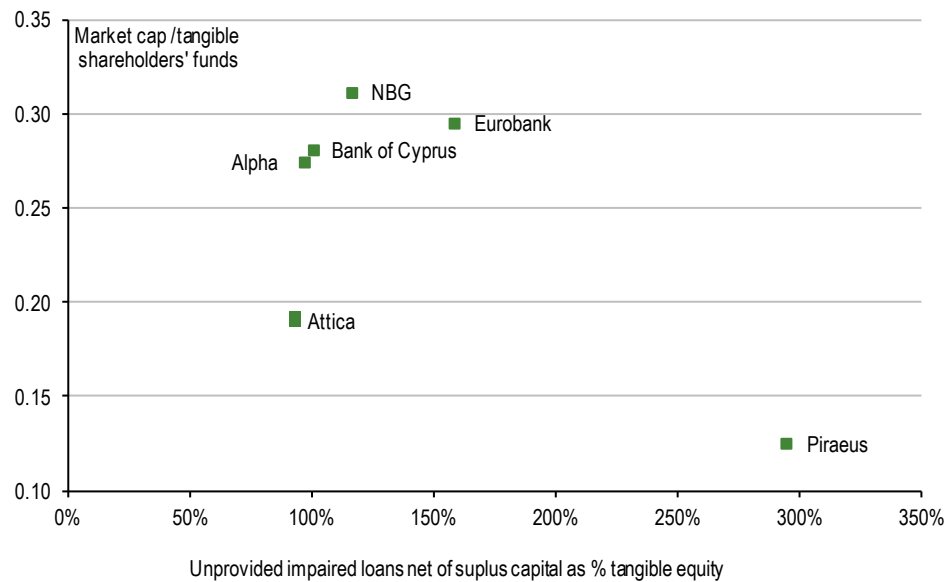
An alternative approach, derived from the capital asset pricing model, is to compare price/tangible book value ratios against returns on equity. Refinitiv consensus expectations for the future profitability of Greek banks are fairly cautious, with returns on tangible equity projected to have risen to 2–6% by 2020.

On our estimates, Attica would be close to a 5% return by this point. The reciprocal of the gradient of the best fit line from Exhibit 12 corresponds to the cost of equity for Greek banks and looks to be in the order of 20%. A 5% return in conjunction with a 20% COE and projected net tangible assets per share of €1.10 (Exhibit 6) would be compatible with a fair value price of €0.27. The sensitivity of fair value to the level of return is given in Exhibit 10.

Exhibit 10: Attica's sensitivity of fair value price to return and cost of equity				
COE	Sustainable return on TBV			
	2%	5%	6%	8%
10%	0.20	0.53	0.61	0.81
15%	0.13	0.35	0.40	0.54
20%	0.10	<b>0.27</b>	0.30	0.40
25%	0.08	0.21	0.24	0.32

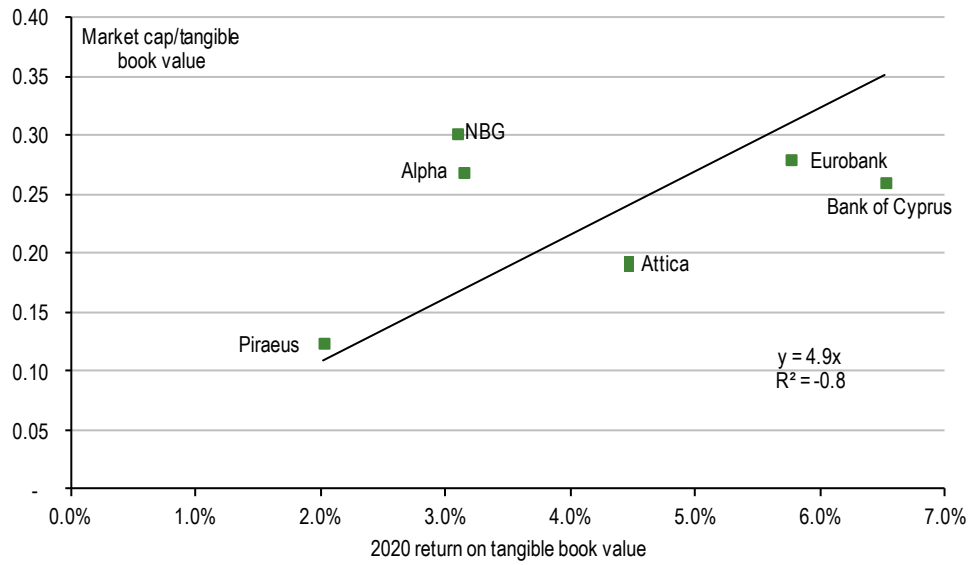
Source: Edison Investment Research

Exhibit 11: Price/TBV and unprovided impaired loans



Source: Refinitiv, Edison Investment Research

**Exhibit 12: Price/TBV and sustainable returns (2020 estimates)**



Source: Refinitiv, Edison Investment Research

---

## General disclaimer and copyright

This report has been commissioned by Attica Bank and prepared and issued by Edison, in consideration of a fee payable by Attica Bank. Edison Investment Research standard fees are £49,500 pa for the production and broad dissemination of a detailed note (Outlook) following by regular (typically quarterly) update notes. Fees are paid upfront in cash without recourse. Edison may seek additional fees for the provision of roadshows and related IR services for the client but does not get remunerated for any investment banking services. We never take payment in stock, options or warrants for any of our services.

**Accuracy of content:** All information used in the publication of this report has been compiled from publicly available sources that are believed to be reliable, however we do not guarantee the accuracy or completeness of this report and have not sought for this information to be independently verified. Opinions contained in this report represent those of the Edison analyst at the time of publication. Forward-looking information or statements in this report contain information that is based on assumptions, forecasts of future results, estimates of amounts not yet determinable, and therefore involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of their subject matter to be materially different from current expectations.

**Exclusion of Liability:** To the fullest extent allowed by law, Edison shall not be liable for any direct, indirect or consequential losses, loss of profits, damages, costs or expenses incurred or suffered by you arising out of or in connection with the access to, use of or reliance on any information contained on this note.

**No personalised advice:** The information that we provide should not be construed in any manner whatsoever as, personalised advice. Also, the information provided by us should not be construed by any subscriber or prospective subscriber as Edison's solicitation to effect, or attempt to effect, any transaction in a security. The securities described in the report may not be eligible for sale in all jurisdictions or to certain categories of investors.

**Investment in securities mentioned:** Edison has a restrictive policy relating to personal dealing and conflicts of interest. Edison Group does not conduct any investment business and, accordingly, does not itself hold any positions in the securities mentioned in this report. However, the respective directors, officers, employees and contractors of Edison may have a position in any or related securities mentioned in this report, subject to Edison's policies on personal dealing and conflicts of interest.

**Copyright:** Copyright 2019 Edison Investment Research Limited (Edison). All rights reserved FTSE International Limited ("FTSE") © FTSE 2019. "FTSE®" is a trade mark of the London Stock Exchange Group companies and is used by FTSE International Limited under license. All rights in the FTSE indices and/or FTSE ratings vest in FTSE and/or its licensors. Neither FTSE nor its licensors accept any liability for any errors or omissions in the FTSE indices and/or FTSE ratings or underlying data. No further distribution of FTSE Data is permitted without FTSE's express written consent.

---

## Australia

Edison Investment Research Pty Ltd (Edison AU) is the Australian subsidiary of Edison. Edison AU is a Corporate Authorised Representative (1252501) of Myonlineadvisers Pty Ltd who holds an Australian Financial Services Licence (Number: 427484). This research is issued in Australia by Edison AU and any access to it, is intended only for "wholesale clients" within the meaning of the Corporations Act 2001 of Australia. Any advice given by Edison AU is general advice only and does not take into account your personal circumstances, needs or objectives. You should, before acting on this advice, consider the appropriateness of the advice, having regard to your objectives, financial situation and needs. If our advice relates to the acquisition, or possible acquisition, of a particular financial product you should read any relevant Product Disclosure Statement or like instrument.

---

## New Zealand

The research in this document is intended for New Zealand resident professional financial advisers or brokers (for use in their roles as financial advisers or brokers) and habitual investors who are "wholesale clients" for the purpose of the Financial Advisers Act 2008 (FAA) (as described in sections 5(c) (1)(a), (b) and (c) of the FAA). This is not a solicitation or inducement to buy, sell, subscribe, or underwrite any securities mentioned or in the topic of this document. For the purpose of the FAA, the content of this report is of a general nature, is intended as a source of general information only and is not intended to constitute a recommendation or opinion in relation to acquiring or disposing (including refraining from acquiring or disposing) of securities. The distribution of this document is not a "personalised service" and, to the extent that it contains any financial advice, is intended only as a "class service" provided by Edison within the meaning of the FAA (i.e. without taking into account the particular financial situation or goals of any person). As such, it should not be relied upon in making an investment decision.

---

## United Kingdom

Neither this document and associated email (together, the "Communication") constitutes or form part of any offer for sale or subscription of, or solicitation of any offer to buy or subscribe for, any securities, nor shall it or any part of it form the basis of, or be relied on in connection with, any contract or commitment whatsoever. Any decision to purchase shares in the Company in the proposed placing should be made solely on the basis of the information to be contained in the admission document to be published in connection therewith.

This Communication is being distributed in the United Kingdom and is directed only at (i) persons having professional experience in matters relating to investments, i.e. investment professionals within the meaning of Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the "FPO") (ii) high net-worth companies, unincorporated associations or other bodies within the meaning of Article 49 of the FPO and (iii) persons to whom it is otherwise lawful to distribute it. The investment or investment activity to which this document relates is available only to such persons. It is not intended that this document be distributed or passed on, directly or indirectly, to any other class of persons and in any event and under no circumstances should persons of any other description rely on or act upon the contents of this document (nor will such persons be able to purchase shares in the placing).

This Communication is being supplied to you solely for your information and may not be reproduced by, further distributed to or published in whole or in part by, any other person.

---

## United States

The Investment Research is a publication distributed in the United States by Edison Investment Research, Inc. Edison Investment Research, Inc. is registered as an investment adviser with the Securities and Exchange Commission. Edison relies upon the "publishers' exclusion" from the definition of investment adviser under Section 202(a) (11) of the Investment Advisers Act of 1940 and corresponding state securities laws. This report is a bona fide publication of general and regular circulation offering impersonal investment-related advice, not tailored to a specific investment portfolio or the needs of current and/or prospective subscribers. As such, Edison does not offer or provide personal advice and the research provided is for informational purposes only. No mention of a particular security in this report constitutes a recommendation to buy, sell or hold that or any security, or that any particular security, portfolio of securities, transaction or investment strategy is suitable for any specific person.