



Fixed Income Presentation

October 2019

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Overview







5.3MM active retail customers in a Greek bankable population of ~8.3M¹



Trusted brand, testified by client loyalty and marketing surveys



36% savings deposits market share in a total
market of ~€53b²



Well-established, long lasting **Corporate relationships**

Our six strategic priorities for 2019-2022





Front-load NPE clean-up delivering a ~5% NPE ratio



Reward performance and **motivate** our people aligning individual objectives to strategic goals



Complete FTE reductions and G&A rationalisation supporting C:I drop to ~45%



Enhance client planning and steering tools enabling value and risk-based decisions



Improve **sales** and **service orientation** growing non-risk income and shifting transactions to digital channels



Invest to modernize the **technology infrastructure** improving efficiency and service levels

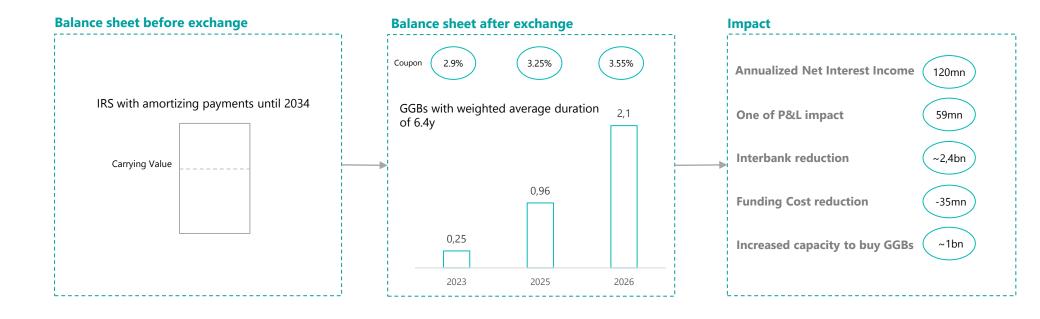


		2018	1H19	2022 targets
ROE	•••••	<0%	4.8% ¹	~11%
NPE ratio	• • • • • •	41%	37%	~5%
Cost : Income ²	• • • • • •	75%	57%³	~45%
CET1	• • • • • •	16.1%	15.5%	~15%

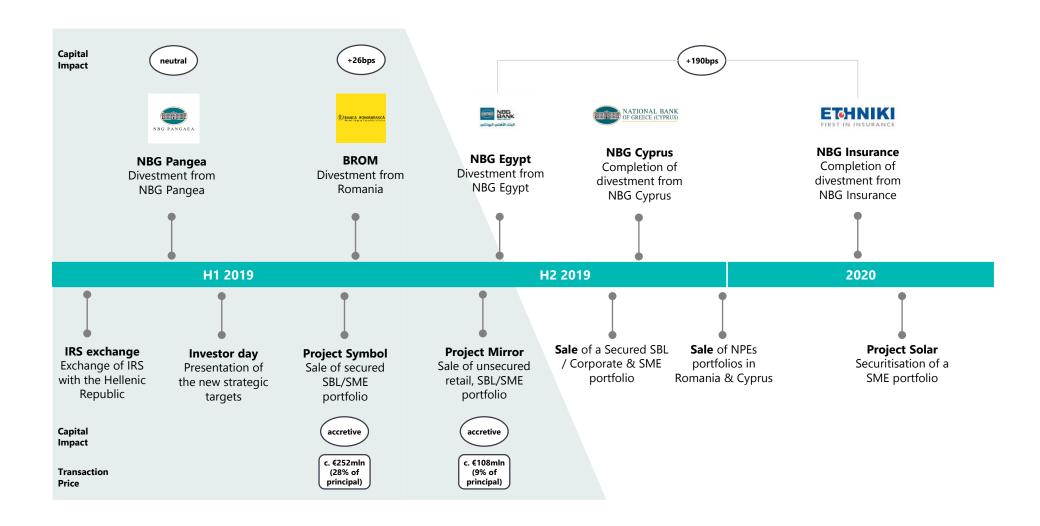
The exchange of the IRS on February 2019 is the basis of a strong start to the Bank's latest strategic transformation plan



The Bank exchanged a legacy Interest rate swap with newly issued GGBs, increasing the NII by c. €110mn per annum and adding a one-off positive P&L impact of €59mn









Financial Highlights - 1H 2019







1H19 Group PAT from continuing operations at €253m

• **NII up by 6% yoy to**, driven by securities interest income reflecting the swap arrangement with the Greek State; pushing NII up by +6% qoq; **Fees up by 3% yoy**, as retail banking fees expand by 9% on strong card, digital channels and bancassurance fees;



- Trading & other income benefits from one off gains; the underlying trading & other income line is firmly in positive territory;
- **OpEx down by 7% yoy** on the back of successful VES completion concerning a total of c1,150 employees, the reduction of the physical network by 83 branches and tighter G&A cost control; **CoR at 136bps** in 1H19 relative to 132bps in 1H18;
- 1H19 PAT from discontinued operations adds €103m to the bottom line, aided by the capital gain from the sale of Pangaea

2

Domestic NPE reduction picks up in 2Q19 (-€1.4b gog)

NPE reduction accelerates in 2Q19, reflecting the agreed sale of unsecured consumer, SB and SME loans (-€1.0b), as well as negative NPE formation, before write offs, of €0.4b;



- The remaining effort to the FY19 NPE reduction target stands at €1.8b this will be achieved through the sale of a secured corporate portfolio, a shipping portfolio and Cypriot and Romanian loans, restructurings involving debt forgiveness and liquidations;
- High NPE coverage levels of 56% facilitate the ongoing shift towards sales & liquidations on a contained loss budget



Domestic deposits up 6% yoy – corporate disbursements pick up with positive net expansion



- Domestic deposit recovery continues in 2Q19 (+5.9% yoy), with c60% of the pre-capital control outflows already recovered;
- LCR & NSFR ratios are kept at levels well above 100%, exceeding regulatory thresholds;
- 2Q19 NBG credit disbursements towards Greek corporates reach €0.8b, up from €0.6b in 1Q19, despite 2Q19 being a pre-election period



CET1 ratio at 16.0%, TCR at 17%



- 2Q19 CET1 of 16.0% Ethniki Insurance sale will push up CET1 further;
- Issuance of €400m in non dilutive Tier II bond in July pushes Total Capital ratio to 17.0%



Group P&L

€m	1H19	1H18	YoY	2Q19	1019	QoQ
NII	598	566	+6%	309	290	+6%
			. 070			. 070
Net Fees & Commissions	120	117	+3%	61	59	+4%
Core Income	718	683	+5%	370	349	+6%
Trading & other income	151 ¹	(19)	n/m	51	100	-49%
Income	869	664	+31%	421	448	-6%
Operating Expenses	(408)	(437)	-7%	(204)	(204)	+0%
Core PPI	310	246	+26%	165	145	+14%
PPI	461	227	>100%	217	245	-11%
Loan Impairments	(204)	(157) ²	+29%	(101)	(103)	-1%
Operating Profit	258	70	>100%	116	142	-19%
Core Operating Profit	107	88	+21%	64	43	+51%
Other impairments	3	(10)	n/m	11	(8)	n/m
PBT	261	60	>100%	126	135	-6%
Taxes	(8)	(12)	-31%	(5)	(4)	+34%
PAT (cont. ops)	253	48	>100%	122	131	-7%
PAT (discont. ops)	103	32	>100%	82	21	>100%
VES & other restructuring costs ³	(105)	(40)	>100%	(4)	(101)	-96%
Minorities	(18)	(20)	-10%	(8)	(10)	-20%
PAT	233	19	>100%	192	41	>100%

Key Ratios - Group

	2Q19	1Q19	FY18	2Q18
Liquidity				
Loans-to-Deposits ratio	70%	71%	70%	74%
LCR	171%	151%	144%	86%
NSFR	113%	113%	108%	n/a
Profitability				
NIM (bps)	276	263	273	275
Cost to core income	55%	58%	65%	67%
Cost of Risk (bps) ⁴	135	136	113	106
Risk Adjusted NIM ⁵	141	127	160	169
Asset quality				
NPE ratio	36.5%	38.9%	40.9%	42.4%
NPE coverage ratio	56.0%	58.6%	59.1%	60.2%
Capital				
CET1 ratio	16.0% ⁶	15.7%	16.1%	16.2%
RWAs (€ bn)	37.4	35.1	35.0	36.1

^{1.} Includes among others €59m trading gain from the GGB swap arrangement with the Greek State and €30m capital gain from Grand Hotel disposal,

Includes recoveries of €42m from NPL sales,

^{3.} Restructuring charges, mainly comprising of VES costs of €94m in 1Q19 & €4M in 2Q19

^{4. 2}Q19/FY.18 CoR excludes one-offs related to the NPL sales; reported CoR at 104bps in 1H18, and 99bps in FY18

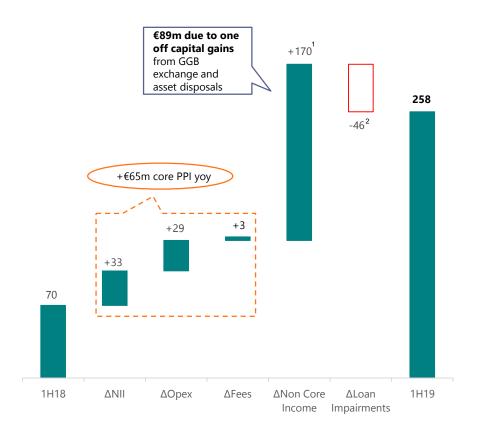
^{5.} Risk Adjusted NIM= NIM-Cost of Risk

^{5.} pro forma for 1H19 PAT and the impact of agreed divestments

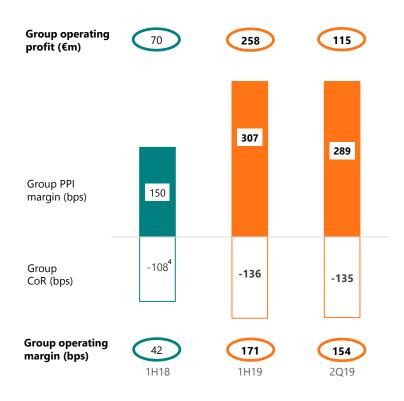
1H19 Group operating profit reaches €258m (+3.7x yoy) aided by solid operating results and strong trading gains



Group operating profit bridge 1H19 (€ m)



Group operating margin decomposition³ 1H19 (bps)



^{1.} Includes €59m trading gain from the GGB swap arrangement with the Greek State and €30m capital gain from Grand Hotel disposal

^{2. 1}H18 CoR benefits from €42m of recoveries from the sale of an unsecured 90dpd portfolio (Project Earth)

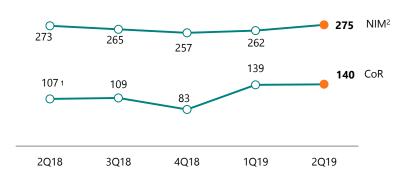
^{3.} All margins calculated over net loans

^{4.} Excluding the €42m recovery from the NPL sale, underlying CoR at 132bps



Domestic NIM & CoR

(bps)



Domestic lending income decomposition

(€ m)



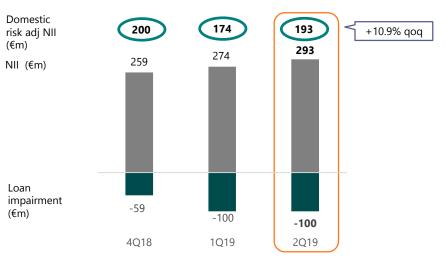
Domestic NII breakdown

(€ m)

	2Q18	3Q18	4Q18	1Q19	2Q19
Loans	286	283	290	285	281
Deposits	-37	-38	-40	-40	-41
Securities	23	26	28	40	63
Eurosystem & wholesale	-13	-14	-17	-14	-12
Subs & other	1	0	-2	3	3
Total	260	258	259	274	293

Domestic risk adj NII

(€ m)



^{1.} Excluding €42m of recoveries from a 90dpd portfolio sale

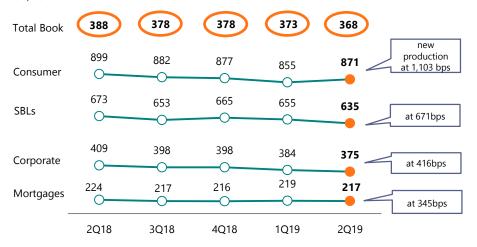
^{2.} NIM calculated on a daily average basis



Greek forborne, PE & total lending yields

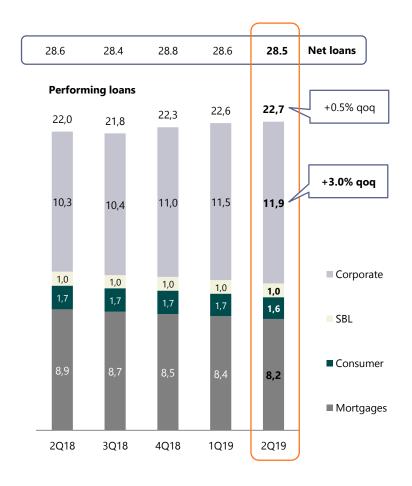


Greek lending yields³ (bps)



1. Includes NPEs

Greek loan evolution⁴ (€ b)



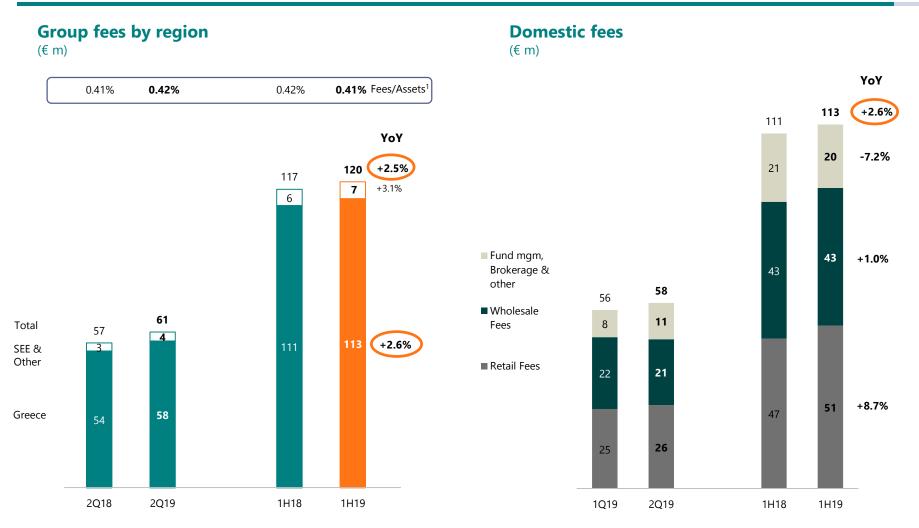
^{2.} Includes FPEs & FNPEs

^{3.} Calculated on performing loans

^{4.} Performing loans = Gross loans - NPEs







Cost cutting impact from personnel reduction and branch closures drives domestic OpEx lower by 6.8% yoy



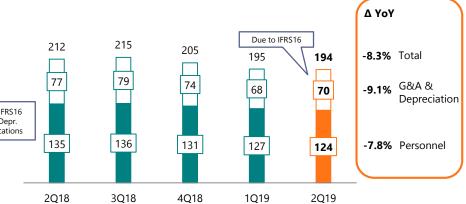
Group OpEx by category (€ m)

	Greece			
	1H19	1H18	YoY	
Personnel	251	268	-6.3%	
G&As	89	114	-21.3%	
Depreciation	47	35	+37.0%	
Total	388	416	-6.8%	
C:I	47%	67%	-20ppts	

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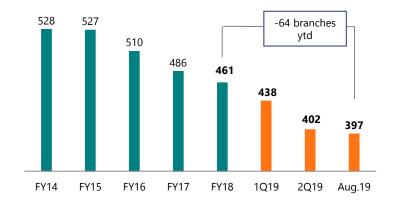
Domestic OpEx evolution

(€ m)



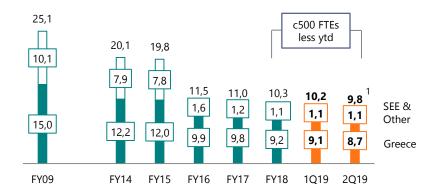
Domestic Branch evolution

(#)



Group headcount evolution

('000)



^{1.} Excludes employees at discontinued operations

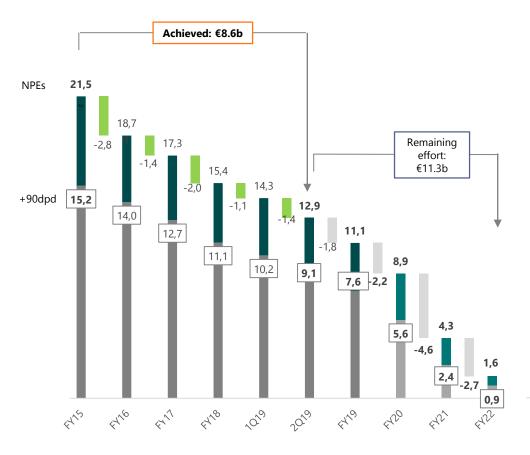


Asset Quality





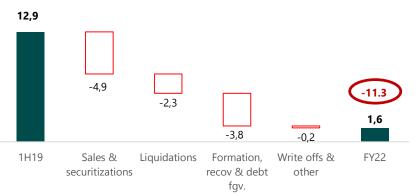
Bank NPE reduction targets (€ b)



NPE operational performance

- NPEs reduced by €2.5b ytd, of which €1.4b in 2Q19
- To achieve the 2019 SSM NPE target an additional €1.8b of NPEs need to be reduced in 2H19
- The NPE ratio will have been reduced to c. 5% in 2022
- The envisaged reduction will be aided by positive developments in securitization schemes and the new law on primary residence protection, addressing mortgage NPLs

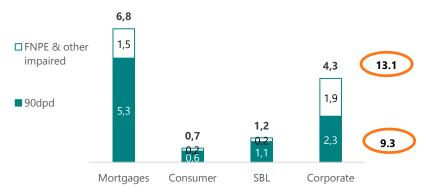
Bank NPE reduction channels & target (€ b)



NPE stock reduced by €1.4b in 2Q19, reflects a sale (-€1.0b) as well as negative organic formation1 of €0.4b



Domestic NPE stock per category – 2Q19 (€ b)



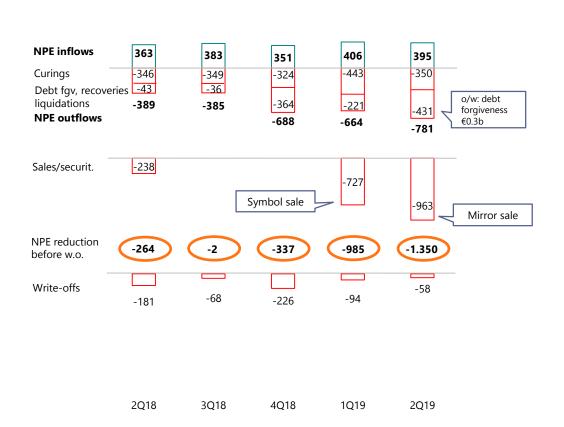
Domestic NPE stock evolution

(€ b)

NPE ratio	42.6%	42.5%	41.1%	39.0%	36.5%
□ FNPEs & other impaired ■ 90dpd	16,3 4,7 11,7	16,1 4,6 11,5	15,6 4,3	14,5 4,1 10,3	13,1 3,8 9,3
	2Q18	3Q18	4Q18	1Q19	2Q19

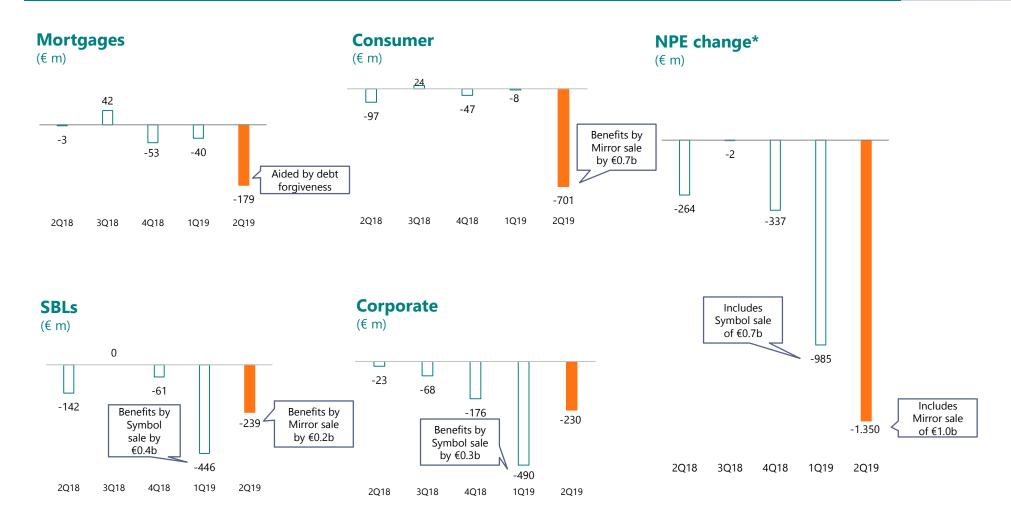
NPE balance change

(€ m, Bank)



Bank NPE* reduction accelerates in 2Q19



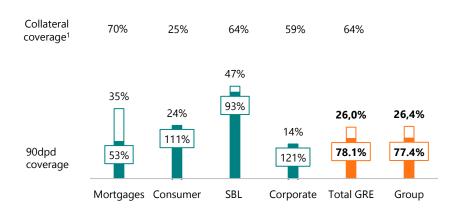


^{*} Bank perimeter, excluding write offs

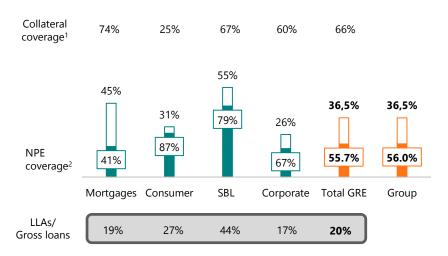




Domestic 90dpd ratios and coverage



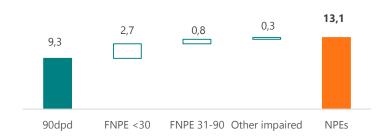
Domestic NPE ratios and coverage



- 1. Collateral coverages are Bank level.
- 2. NPE coverage incorporates additional haircuts on the market value of collateral.

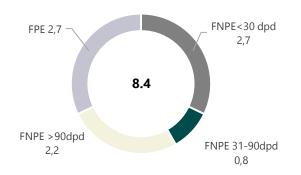
Domestic 90dpd – NPE bridge

(€ b)



Domestic forborne stock

(€ b)

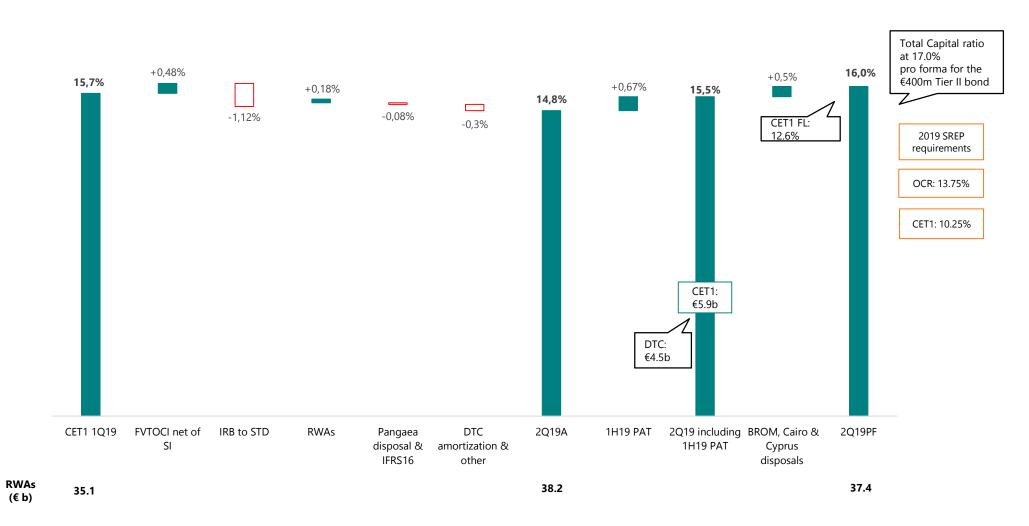




Capital







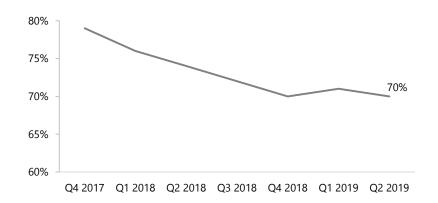


Funding & Liquidity

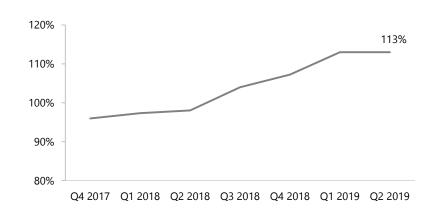




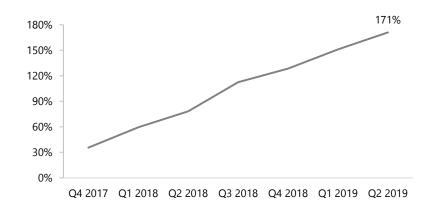
Loans to Deposits



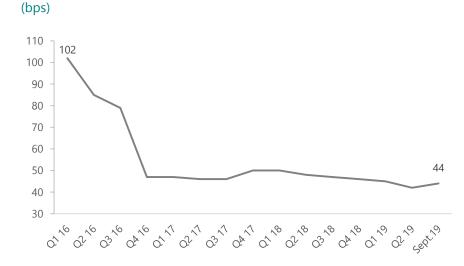
Net Stable Funding Ratio



Liquidity Coverage Ratio

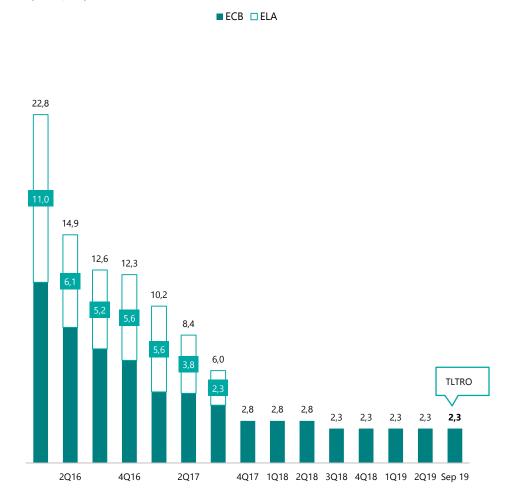


Funding Cost Evolution







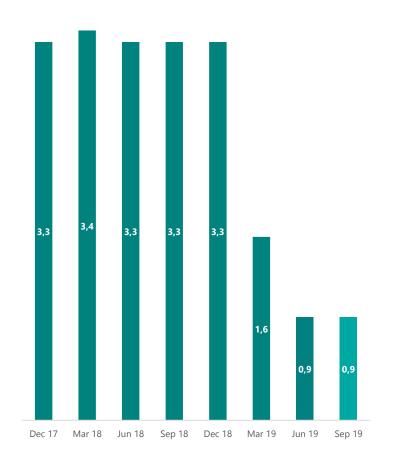


Eurosystem funding

(Bank, €b)

Interbank funding

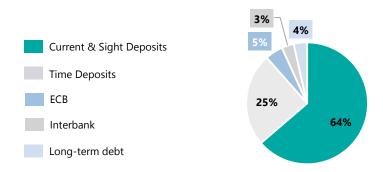
(Bank, net, €b)





Deposit base currently accounts for 89% of total funding

(average, %)



Current Long-term Debt Maturity Profile (€b)



ECB TLTRO III & Tiering

- □ Following ECB's announcement, Bank's available tiering stands approximately at €2,5bn
 - Average cash deposited to Central Bank: c.€400mn

☐ TLTRO modalities for NBG

- Max amount €6bn
- Since Q3 2018, the Bank utilizes €2,25bn of TLTRO funding
- Available ECB collateral (cash amount basis):

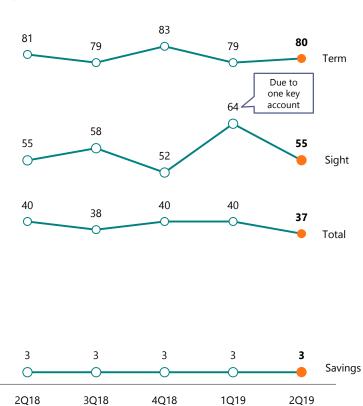




NBG's blended deposit yield below 40bps, aided by our large share of savings deposits costing 3bps

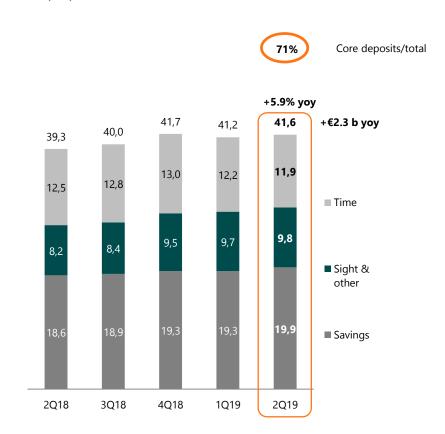
Greek deposit yields

(bps)



Greek deposits evolution

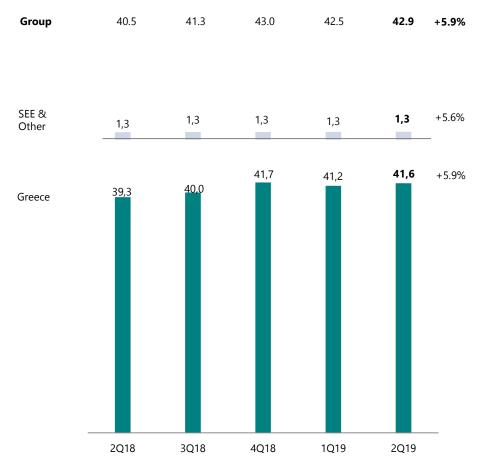
(€ b)



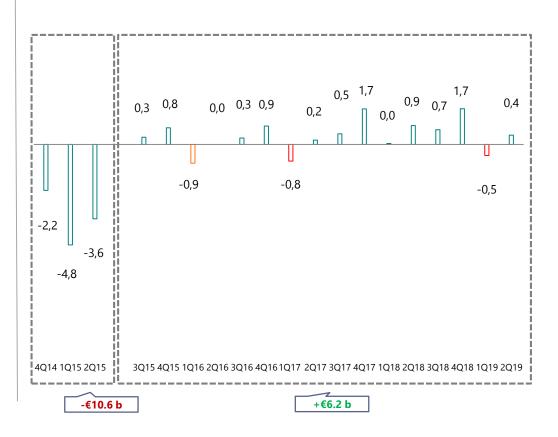


Deposit evolution by geography $(\in b)$

•



NBG domestic deposit flows per quarter $(\in b)$



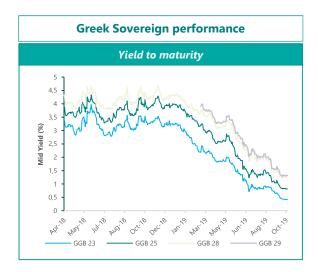


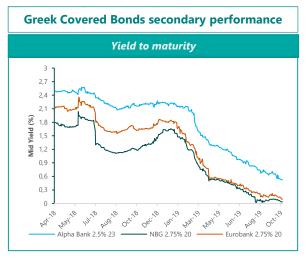
Fixed Income

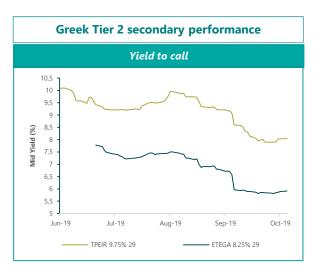


Greek sovereign debt & Fls' secured and unsecured issuances reach their all time lows as we move towards Q4 2019

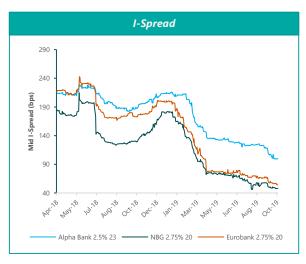












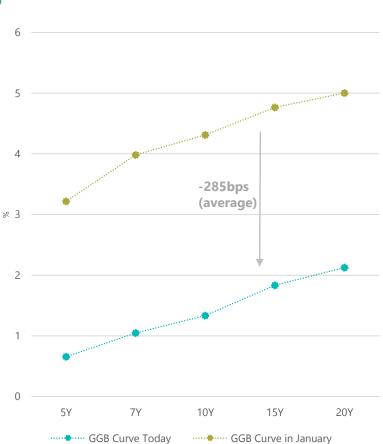






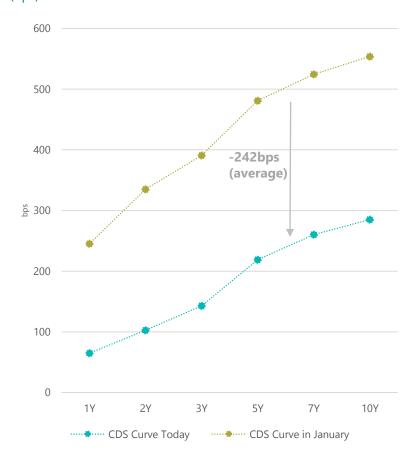


(%)



CDS Curve – Spread

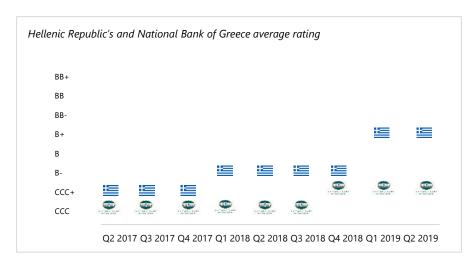
(bps)



Sovereign, bank and debt ratings on upwards trajectory



		Moody's	<mark>Fitch</mark> Ratings	S&P Global Ratings
Next scheduled sovereign	l update for the	[2020]	[2020]	25/10/2019
	Hellenic Republic	В1	BB-	B+
NATIONAL BANK OPERALECA	National Bank of Greece S.A.	Caa1	CCC+	B-
ing	Covered Bond Programme I	Baa1	n.a.	BBB-
Secured Funding	Covered Bond Programme II	Baa1	BBB-	BBB-
Unsecured	Senior Unsecured (expected)	Caa1	CCC-	B-
	Tier 2	Caa2	CCC-	ccc





Key drivers that could lead to a rating upgrade of Hellenic Republic:

- Achieve further primary surpluses and greater confidence that the economic recovery will be sustained over time
- Track record of economic and fiscal policy continuity after Greece's exit from the ESM programme
- A strongly reform-minded government were to emerge from the upcoming elections
- Reduction in the public debt ratio
- Material improvement in the banking sector's health

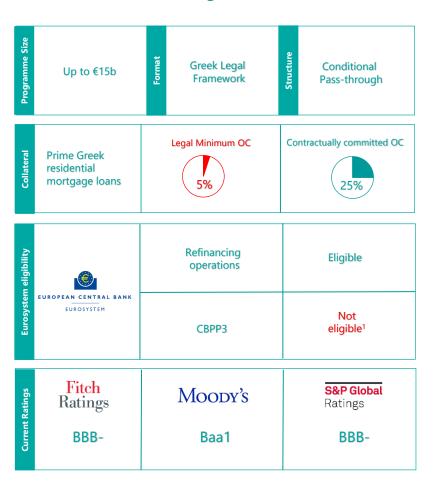


Key drivers that could lead to a rating upgrade of NBG:

- Improvement in the country's macroeconomic environment
- Improvement in the bank's asset quality by materially reducing its NPEs
- · Continued progress in the bank's funding and liquidity profile
- Deposit growth
- Normalization of market access



NBG Covered Bond Programme II – Factsheet



Highlights

- On October 2017, NBG completed the first Greek covered bond transaction since 2009, pricing a 3-year 750 million covered bond at 2.90% yield
- The covered bond attracted a diverse pool of interest amounting to around €2b
- On 6th of July 2018, S&P rated NBG's 15 billion Covered Bond Programme II at BBB-. The covered bonds issued under the programme became the first investment grade bonds issued by Greece's financial sector since 2011

Secondary performance in line with rating evolution



NBG Tier 2 Case Study





Summary Terms

Issuer National Bank of Greece S.A.

Issuer RatingCaa1 (Moody's) / B- (S&P) / CCC+ (Fitch)Exp. Issue RatingCaa2 (Moody's) / CCC (S&P) / CCC- (Fitch)

Notes Subordinated, Tier 2

Size €400MM

Format RegS Fixed Rate Reset Note

Pricing Date 11 July 2019
Settlement Date 18 July 2019 (T+5)
Maturity 18 July 2029
Issuer's Call 18 July 2024

Coupon 8.25% Fixed until Reset, Annual

Reset Reset after year 5 to prevailing 5yr MS + Margin

 Margin
 846.4 bps

 Re-Offer Yield
 8.25%

 Price
 100.00%

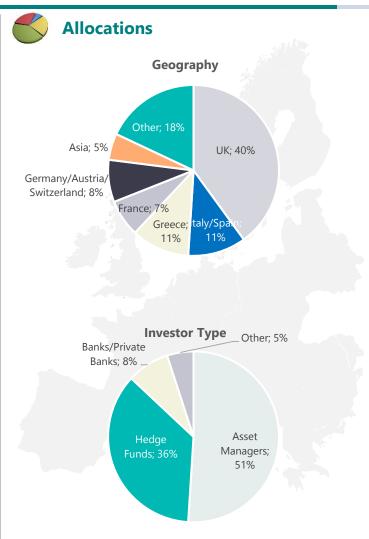
Listing Luxembourg Stock Exchange

Denominations €100k + €1k **Governing Law** English Law



Transaction Highlights

- On Thursday 11th July, National Bank of Greece S.A. priced a €400m 10NC5 Tier 2 bond at 8.25%
- The Transaction, marked NBG's reintroduction to the unsecured market since the last senior unsecured issued back in April 2014
- The issuance attracted a diverse pool of investor interest amounting to c€1.7bn from c140 institutional investors. The vast majority of interest came from international investors (c90%).
- On the back of two days of roadshow and investor calls, NBG opened books setting IPTs at 9% area
- With the support of high quality orders in excess of €1.35bn, NBG revised guidance at 8.5% area
- The final orderbook, reaching c€1.7bn, allowed the Bank to further tighten the yield by 25bps finalizing a €400m transaction at 8.25%



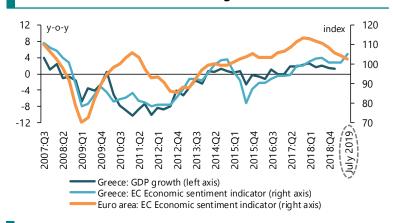


Macro

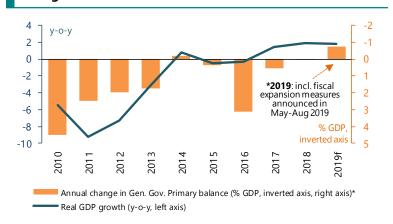




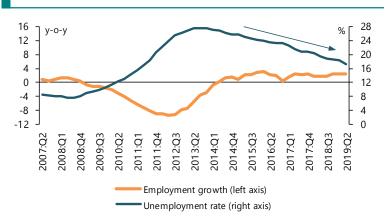
Economic sentiment & real GDP growth



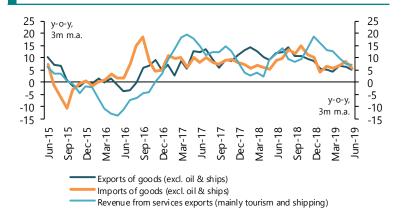
GDP growth & fiscal stance



Employment growth & unemployment rate



External trade & revenue from services exports

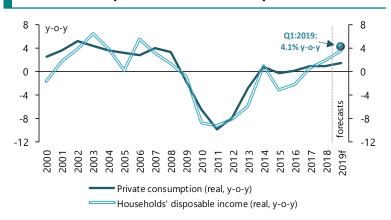


Sources: EL.STAT., Bank of Greece, Ministry of Finance, EU Commission, Markit Economics & NBG Economic Analysis estimates

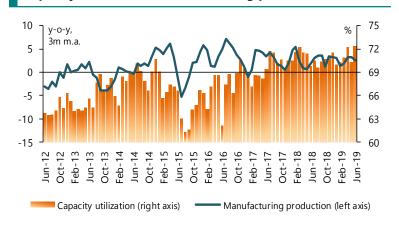
Macroeconomic conditions in Greece bode well for a faster expansion of domestic spending in 2H19. The 22% reduction in the unified property tax since August, could support further real estate market



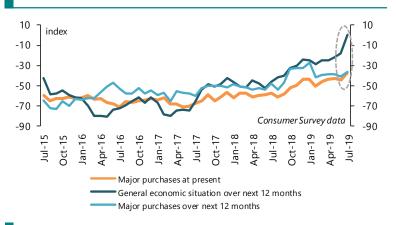
Private consumption & households' disposable income



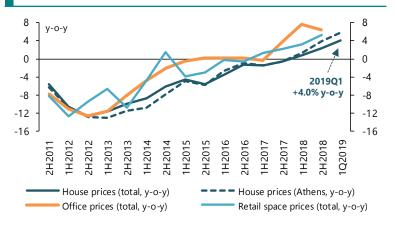
Capacity utilization & manufacturing production



Households' assessment of economic conditions



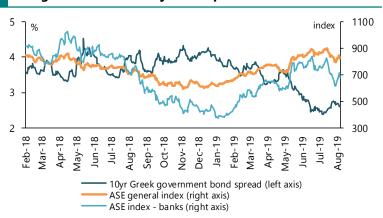
Real estate price growth



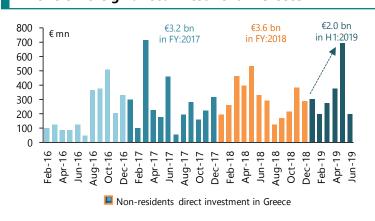
Sources: EL.STAT., Bank of Greece, EU Commission & NBG Economic Analysis estimates



ASE general index & 10yr GGB spread over bund



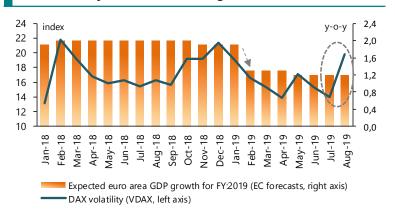
Inflows of foreign direct investment in Greece



Hellenic Republic, CDS



DAX volatility & euro area GDP growth forecasts for 2019

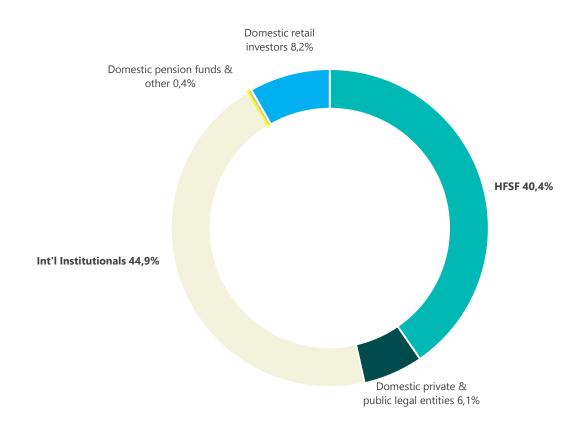




Appendix

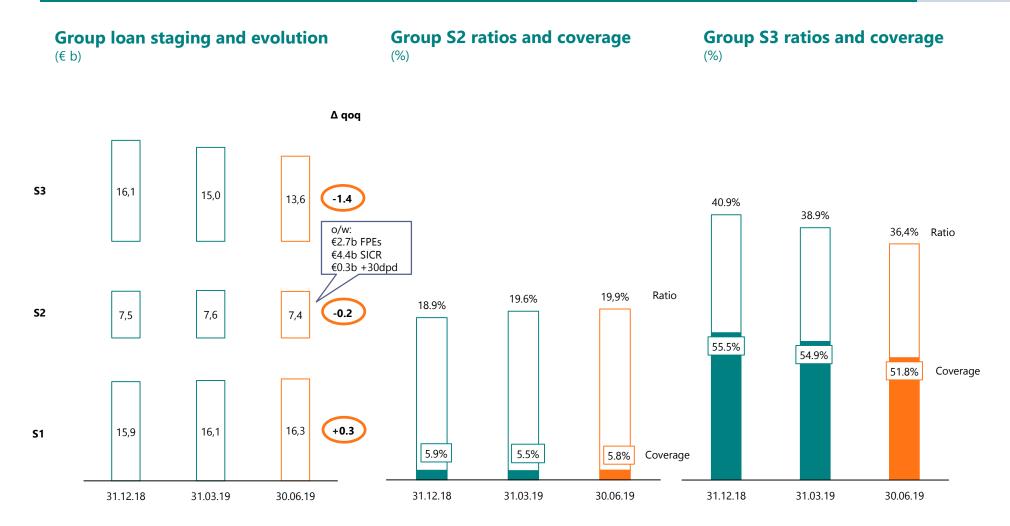






Domestic investors: 14.7%





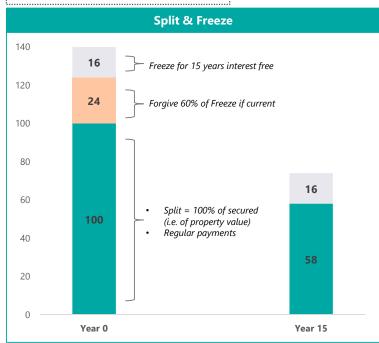
From "Split & Freeze" to "Split & Settle"; S&S entailing a correct LTV at the modification date & more favorable terms to the borrowers (lower instalment - greater haircut)



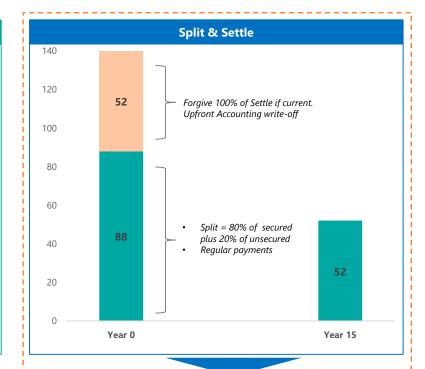


Non-denounced clients with inadequate income

All loan balances in €000s



Instalment	€395	€502
Step-up		+27%
LTV	140%	74%
NPV	€111k	
% NPV	79%	



(€347)	€347
	0%
88%	52%
€88k	
63%	

√ Lower instalment

√ No step-up

√ Correct LTV upfront

Greater haircut



Balance Sheet | Group

€m	2Q19	1Q19	4Q18	3Q18	2Q18
Cash & Reserves	1 839	2 570	5 138	4 875	4 330
Interbank placements	3 054	3 072	2 546	1 793	1 850
Securities	10 154	9 123	8 959	8 396	7 867
Loans (Gross)	37 502	38 808	39 600	39 732	40 050
Provisions (Stock)	(7 563)	(8 751)	(9 466)	(9 921)	(10 088)
Goodwill & intangibles	160	145	150	140	131
RoU assets	1 319	61	-	-	-
Tangible assets	456	461	465	460	456
DTA	4 909	4 910	4 909	4 914	4 914
Other assets	7 407	6 635	6 013	5 835	6 153
Assets held for sale	5 897	7 183	6 780	6 930	7 192
Total assets	65 131	64 217	65 095	63 153	62 854
Interbank liabilities	5 642	5 743	7 667	6 960	7 545
Due to customers	42 943	42 500	43 027	41 322	40 552
Debt securities	959	963	854	858	754
Other liabilities	4 327	4 201	3 218	3 671	3 511
Lease liabilities	1 359	100	-	-	-
Liabilities held for sale	4 331	4 936	4 691	4 620	4 740
Minorities	19	696	676	670	663
Equity	5 550	5 078	4 962	5 051	5 088
Total liabilities and equity	65 131	64 217	65 095	63 153	62 854

P&L | Group

€m	2Q19	1Q19	4Q18	3Q18	2Q18
NII	309	290	275	275	276
Net fees	61	59	66	58	57
Core Income	370	349	341	333	333
Trading & other income	51	100	(47)	(6)	(30)
Income	421	448	294	327	303
Operating Expenses	(204)	(204)	(218)	(227)	(222)
Core Pre-Provision Income	165	145	123	106	111
Pre-Provision Income	217	245	76	100	80
Loan Impairments	(101)	(103)	(60)	(81)	(38)
Operating Profit	116	142	16	19	42
Other impairments	11	(8)	(1)	1	(11)
PBT	126	135	15	20	31
Taxes	(5)	(4)	(7)	(6)	(9)
PAT (cont. ops)	122	131	8	14	22
PAT (discount. ops)	82	21	(84)	11	13
One-offs	(4)	(101)	(38)	-	(40)
Minorities	(8)	(10)	(7)	(8)	(10)
PAT	192	41	(120)	17	(15)



Greece

€m	2Q19	1Q19	4Q18	3Q18	2Q18
NII	293	274	259	258	260
Net fees	58	56	63	54	54
Core Income	351	330	322	313	313
Trading & other income	49	100	(48)	(5)	(31)
Income	400	430	274	307	283
Operating Expenses	(194)	(194)	(205)	(215)	(212)
Core Pre-Provision Income	156	136	117	98	102
Pre-Provision Income	206	236	70	93	71
Loan Impairments	(100)	(100)	(59)	(78)	(35)
Operating Profit	105	136	10	15	36
Other impairments	11	(7)	1	1	(11)
PBT	116	129	11	16	26
Taxes	(4)	(2)	(5)	(5)	(6)
PAT (cont. ops)	113	127	6	11	20
PAT (discount. ops)	84	1	(10)	10	11
One-offs	(4)	(101)	(38)	-	(40)
Minorities	(8)	(9)	(6)	(7)	(9)
PAT	186	18	(48)	14	(18)

SEE & Other

€m	2Q19	1Q19	4Q18	3Q18	2Q18
NII	16	16	16	17	16
Net fees	3	3	3	3	3
Core Income	19	19	19	20	20
Trading & other income	3	(0)	1	(1)	1
Income	21	18	20	20	20
Operating Expenses	(10)	(10)	(13)	(12)	(11)
Core Pre-Provision Income	9	9	6	8	9
Pre-Provision Income	11	9	6	8	10
Loan Impairments	(1)	(3)	(1)	(3)	(3)
Operating Profit	10	6	5	4	6
Other impairments	(0)	(0)	(1)	(0)	(0)
PBT	10	6	4	4	6
Taxes	(1)	(1)	(3)	(1)	(4)
PAT (cont. ops)	9	5	2	3	2



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