

54. Risk Management

The Group is subject to several risks during the course of its business. The risks from different companies of the Group are managed centrally, in coordination with the local departments and considering the specific risks of each business.

The Group's risk-management policy is designed to permanently ensure an adequate relationship between its own funds and the business it develops, as well as the corresponding evaluation of the risk/return profile by business line. Under this scope, the monitoring and control of the main types of financial risks to which the Group's business is subject to – credit, market, liquidity and operational – is particularly relevant.

Main types of risk

Credit – Credit risk is associated with the degree of uncertainty of the expected returns as a result of the inability either of the borrower (and the guarantor, if any) or of the issuer of a security or of the counterparty to an agreement to fulfil their obligations.

Market – Market risks consist of the potential losses that might occur in a given portfolio as a result of changes in interest or exchange rates and/or in the prices of the different financial instruments of the portfolio, considering not only the correlations that exist between those instruments but also their volatility.

Liquidity – Liquidity risk reflects the Group's inability to meet its obligations at maturity without incurring in significant losses resulting from the deterioration of the funding conditions (funding risk) and/or from the sale of its assets below market value (market liquidity risk).

Operational – Operational risk consists in the potential losses resulting from failures or inadequacies in internal procedures, persons or systems, and also in the potential losses resulting from external events.

Real Estate market – Real Estate market risk is related to the potential loss in which the Bank may incur due to changes in the prices of real estate assets owned by the Group.

Pension fund – Pension fund risk consists in the potential losses in which the Bank may incur due to risk related to the uncertainty about required contributions for defined benefit pension plans or to market rates fluctuations that might cause direct financial losses or indirect in the pension fund's assets.

Business and strategy – The risk related to business and strategy consists in the potential losses due to unpredictable changes in the economic and competitive framework in which the Group develops its activity, changes in the business strategy, risk of depreciation on strategic shareholdings that are out of the consolidation perimeter, and misalignment between IT's structure and the Bank's strategy.

Legal and compliance – Legal and compliance risk is related to losses that the Bank may incur as a result of violations or non-compliance with laws and regulations, encompassing the risk of financial crime (related to violations or non-conformities arising from obligations in matters prevention of money laundering and financing of terrorism), the risk of conduct (related to violations or non-compliance with applicable legislation and regulations in force originating, in particular, from fraud, negligent behaviour or design of products and services), the risk associated with non-compliance with personal data protection and the risk of litigation.

Risk of foreign currency loans' conversion in Poland – This risk is related to eventual losses for the Group due to approval of law regarding rules of conversion into zlotys of loans originally based in foreign currency.

Internal organisation

Banco Comercial Português Board of Directors is responsible for the definition of the risk policy, including the approval of the principles and rules of the highest level to be followed in risk management, as well as the guidelines dictating the allocation of capital to the business lines.

The Board of Directors, through the Audit Committee, ensures the existence of adequate risk control and of risk-management systems at Group level and for each entity. The Board of Directors also approves the risk-tolerance level acceptable to the Group, proposed by its Executive Committee.

The Risk Committee is responsible for monitoring the overall levels of risk incurred, ensuring that these are compatible with the goals and strategies approved for the business.

The Chief Risk Officer is responsible for the control of risks in all Group entities, for the identification of all risks to which the Group activity is exposed and for the proposal of measures to improve risks control. The Chief Risk Officer also ensures that risks are monitored on an overall basis and that there is alignment of concepts, practices and goals in risk management. The activity of every entity included within the Banco Comercial Português consolidation perimeter is governed by the principles and decisions established centrally by the Risk Committee and the main subsidiaries are provided with Risk Office structures which are established in accordance with the risks inherent to their particular business. A Risk Control Commission has been set up at each relevant subsidiary, responsible for the control of risks at local level, in which the Chief Risk Officer takes part.

The Group Head of Compliance is responsible for implementing systems for monitoring the compliance with legal obligations and responsibilities to which the Bank is subject, as well, the prevention, monitoring and reporting of risks in organizational processes, which include, among others, the prevention and repression of money laundering, combating financing of terrorism, prevention of conflicts of interest, issues related to abuse of market and compliance with the disclosure requirements to customers.

Risk assessment

Credit Risk

Credit granting is based on a prior classification of the customers' risk and on a thorough assessment of the level of protection provided by the underlying collateral. In order to do so, a single risk-notation system has been introduced, the Rating Master Scale, based on the expected probability of default, allowing greater discrimination in the assessment of the customers and better establishment of the hierarchies of the associated risk.

The Rating Master Scale also identifies those customers that show a worsening credit capacity and, in particular, those classified as being in default. All rating and scoring models used by the Group have been duly calibrated for the Rating Master Scale. The protection-level concept has been introduced as a crucial element of evaluation of the effectiveness of the collateral in credit-risk mitigation, leading to a more active collateralization of loans and to a better adequacy of pricing regarding the risk incurred.

The gross Group's exposure to credit risk (original exposure) is presented in the following table:

(Thousands of euros)		
Risk items	2019	2018
Central Governments or Central Banks	15,734,930	15,231,511
Regional Governments or Local Authorities	818,986	806,871
Administrative and non-profit Organisations	301,479	144,656
Multilateral Development Banks	41,422	19,139
Other Credit Institutions	3,155,805	2,738,662
Retail and Corporate customers	66,252,288	60,735,561
Other items (*)	9,863,160	10,072,372
	96,168,070	89,748,772

Note: gross exposures of impairment and amortization, in accordance with the prudential consolidation perimeter. Includes securitization positions.

(*) In addition to positions in equity, collective investment and securitization, the Other items contain other assets subject to credit risk in accordance with article 134 of the CRR.

The evaluation of the risk associated to the loan portfolio and quantification of the respective losses expected, considers the following methodological notes.

a) Collaterals and Guarantees

On the risk evaluation of an operation or of a group of operations, the mitigation elements of credit risk associated to those operations are considered in accordance with the rules and internal procedures that fulfil the requirements defined by the regulations in force, also reflecting the experience of the loans recovery areas and the Legal Department opinions with respect to the entailment of the various mitigation instruments.

The collaterals and the relevant guarantees can be aggregated in the following categories:

- financial collaterals, real estate collaterals or other collaterals;
- receivables;
- first demand guarantees, issued by banks or other entities with Risk Grade 7 or better on the Rating Master Scale;
- personal guarantees, when the persons are classified with Risk Grade 7 or better;
- credit derivatives.

The financial collaterals accepted are those that are traded in a recognised stock exchange, i.e., on an organized secondary market, liquid and transparent, with public bid-ask prices, located in countries of the European Union, United States, Japan, Canada, Hong Kong or Switzerland.

In this context, it is important to refer that the Bank's shares are not accepted as financial collaterals of new credit operations and are only accepted for the reinforcement of guarantees of existing credit operations, or in restructuring process associated to credit recoveries.

Regarding guarantees and credit derivatives, it can be applied the substitution principle by replacing the Risk Grade of the client by the Risk Grade of the guarantor, (if the Risk of Grade Degree of the guarantor is better than the client's), when the protection is formalized through:

- State, Financial Institutions or Mutual Guarantee Societies guarantees exist;
- personal guarantees (or, in the case of Leasing, there is a recovery agreement of the provider);
- Credit derivatives;
- Formalization of the clause of the contracting party in leasing contracts in which it is an entity that is in a relationship of dominion or group with the lessee.

An internal level of protection is attributed to all credit operations at the moment of the credit granting decision, considering the credit amount as well as the value and type of the collaterals involved. The protection level corresponds to the loss reduction in case of default that is linked to the various collateral types, considering their market value and the amount of the associated exposure.

In the case of financial collaterals, adjustments are made to the protection value by the use of a set of haircuts, in order to reflect the price volatility of the financial instruments.

In the case of real estate mortgages, the initial appraisal of the real estate value is done during the credit analysis and before decision process.

Either the initial evaluations or the subsequent reviews carried out are performed by external expert valuers and the ratification process is centralized in the Appraisals Unit, which is independent of the clients' areas.

In any case, they are the subject to a written report, in a standardized digital format, based on a group of predefined methods that are aligned with the sector practices – income, replacement cost and/or market comparative – mentioning the obtained value, for both the market value and for purposes of the mortgage guarantee, depending on the type of the real estate. The evaluations have a declaration/certification of an expert valuer since 2008, as requested by Regulation (EU) 575/2013 and Law 153/2015 of 14 September and are ratified by the Appraisals Unit.

Regarding residential real estate, after the initial valuation and in accordance with Notice n. 5/2006 of Bank of Portugal and e CRR 575/2013, the Bank monitors the respective values through market indexes. If the index is lower than 0.9, the Bank revalues choosing one of the following two methods:

- i) - depreciation of the property by direct application of the index, if the amount owed does not exceed Euros 300,000;
- ii) - review of the property value by external valuers, depending on the value of the credit operation, and in accordance with the established standards from ECB and Bank of Portugal.

For all non-residential real estate, the Bank also monitors its values through market indexes and to the regular valuation reviews with the minimum periodicities in accordance with the Regulation (EU) 575/2013, in the case of offices, commercial spaces, warehouses and industrial premises.

For all real estate (residential or non-residential) for which the monitoring result in significant devaluation of the real estate value (more than 10%), a valuation review is subsequently carried out by an expert valuer, preserving the referred i) above.

For the remaining real estate (land or country side buildings for example) there are no market indexes available for the monitoring of appraisal values, after the initial valuations. Therefore, for these cases and in accordance with the minimum periodicity established for the monitoring and reviewing of this type of real estate, valuation reviews are carried out by expert valuers.

The indexes currently used are supplied to the Bank by an external specialized entity that, for more than a decade, has been collecting and processing the data upon which the indexes are built.

In the case of financial collaterals, their market value is daily and automatically updated, through the IT connection between the collaterals management system and the relevant financial markets data.

b) Risk grades

Credit granting is based on the previous risk assessment of clients and also on a rigorous assessment of the protection level provided by the underlying collaterals. For this purpose, a single risk grading system is used - the Rating Master Scale - based on Probability of Default (PD), allowing for a greater discriminating power in clients' assessment and for a better hierarchy of the associated risk. The Rating Master Scale also allows to identify clients that show signs of degradation in their credit capacity and, in particular, those that are classified in a default situation. All rating systems and models used by the Group were calibrated for the Rating Master Scale.

Aiming at an adequate assessment of credit risk, the Group defined a set of macro segments and segments which are treated through different rating systems and models that relate the internal risk grades and the clients' PD, ensuring a risk assessment that considers the clients' specific features in terms of their respectively risk profiles.

The assessment made by these rating systems and models result in the risk grades of the Master Scale, that has fifteen grades, where the last three correspond to relevant downgrades of the clients' credit quality and are referred to by "procedural risk grades": 13, 14 and 15, that correspond, in this order, to situations of increased severity in terms default, as risk grade 15 is a Default situation.

The non-procedural risk grades are attributed by the rating systems through automatic decision models or by the Rating Division - a unit which is independent from the credit analysis and decision areas and bodies- and are reviewed/updated periodically or whenever this is justified by events.

The models within the various rating systems are regularly subject to validation, made by the Models Validation and Monitoring Office, which is independent from the units that are responsible for the development and maintenance of the rating models.

The conclusions of the validations by the Models Validation and Monitoring Office, as well the respective recommendations and proposal for changes and/or improvements, are analysed and ratified by a specific Validation Committee, composed in accordance to the type of model analysed. The proposals for models' changes originated by the Validation Committee are submitted to the approval of the Risk Committee.

The following table lists the recognised External Credit Assessment Institutions (ECAI) and the external ratings equivalence to the Rating Master Scale of the Group:

Internal risk grade	External ratings			
	Fitch	S&P	Moody's	DBRS
1	AAA	AAA	Aaa	AAA
1	AA+	AA+	Aa1	AA (high)
2	AA	AA	Aa2	AA
2	AA-	AA-	Aa3	AA (low)
3	A+	A+	A1	A (high)
3	A	A	A2	A
4	A-	A-	A3	A (low)
4	BBB+	BBB+	Baa1	BBB (high)
5	BBB	BBB	Baa2	BBB
6	BBB-	BBB-	Baa3	BBB (low)
7	BB+	BB+	Ba1	BB (high)
8	BB	BB	Ba2	BB
9	BB-	BB-	Ba3	BB (low)
10	B+	B+	B1	B (high)
11	B	B	B2	B
12	≤ B-	≤ B-	≤ B3	≤ B-

c) Impairment and Write-offs

The credit impairment calculation as at 31 December 2019 and 2018 integrates the general principles defined in International Financial Reporting Standards (IFRS 9) and the guidelines issued by the Bank of Portugal through a Circular Letter "CC/2018/00000062", in order to align the calculation process used in the Group with the best international practices in this area.

As at 31 December 2019, the financial instruments subject to impairment requirements under IFRS 9, (do not include equity instruments as accounting policy 1 C1.1.2), analysed by stage, are detailed in the following tables:

(Thousands of euros)

Category	2019				
	Gross exposure				
	Stage 1	Stage 2	Stage 3	POCI	Total
Financial assets at amortised cost					
Loans and advances to credit institutions (note 20)	890,357	3,006	-	-	893,363
Loans and advances to customers (note 21)	40,864,110	7,220,484	4,058,116	122,141	52,264,851
Debt instruments (note 22)	3,116,343	74,515	9,549	-	3,200,407
Debt instruments at fair value					
through other comprehensive income (note 23) (*)	13,179,281	-	1,177	-	13,180,458
Guarantees and other commitments (note 45)	12,022,296	1,793,631	483,094	123	14,299,144
Total	70,072,387	9,091,636	4,551,936	122,264	83,838,223

The gross exposure to guarantees and other commitments includes the balances of guarantees granted, irrevocable credit lines and revocable commitments, as detailed in note 45.

(Thousands of euros)

Category	2019				
	Impairment losses				
	Stage 1	Stage 2	Stage 3	POCI	Total
Financial assets at amortised cost					
Loans and advances to credit institutions (note 20)	161	207	-	-	368
Loans and advances to customers (note 21)	94,766	190,878	2,117,756	13,622	2,417,022
Debt instruments (note 22)	4,669	382	9,480	-	14,531
Debt instruments at fair value					
through other comprehensive income (note 23) (*)	-	-	-	-	-
Guarantees and other commitments (note 38)	10,329	6,330	99,899	2	116,560
Total	109,925	197,797	2,227,135	13,624	2,548,481

(Thousands of euros)

Category	2019				
	Net exposure				
	Stage 1	Stage 2	Stage 3	POCI	Total
Financial assets at amortised cost					
Loans and advances to credit institutions (note 20)	890,196	2,799	-	-	892,995
Loans and advances to customers (note 21)	40,769,344	7,029,606	1,940,360	108,519	49,847,829
Debt instruments (note 22)	3,111,674	74,133	69	-	3,185,876
Debt instruments at fair value					
through other comprehensive income (note 23) (*)	13,179,281	-	1,177	-	13,180,458
Guarantees and other commitments (notes 38 and 45)	12,011,967	1,787,301	383,195	121	14,182,584
Total	69,962,462	8,893,839	2,324,801	108,640	81,289,742

(*) For financial assets at fair value through other comprehensive income, impairment is recorded in accordance with the requirements indicated in the accounting policy 1 C1.5.1.2.

As at 31 December 2018, the financial instruments subject to impairment requirements under IFRS 9 (do not include equity instruments as accounting policy 1 C1.1.2), analysed by stage, are detailed in the following tables:

(Thousands of euros)

Category	2018				
	Gross Exposure				
	Stage 1	Stage 2	Stage 3	POCI	Total
Financial assets at amortised cost					
Loans and advances to credit institutions (note 20)	880,560	10,657	669	-	891,886
Loans and advances to customers (note 21)	35,658,333	7,235,837	5,518,658	4	48,412,832
Debt instruments (note 22)	3,080,409	264,307	72,007	-	3,416,723
Debt instruments at fair value					
through other comprehensive income (note 23) (*)	13,797,971	-	4,887	-	13,802,858
Guarantees and other commitments (note 45)	10,702,195	1,491,003	640,274	-	12,833,472
Total	64,119,468	9,001,804	6,236,495	4	79,357,771

(Thousands of euros)

Category	2018				
	Impairment losses				
	Stage 1	Stage 2	Stage 3	POCI	Total
Financial assets at amortised cost					
Loans and advances to credit institutions (note 20)	410	774	669	-	1,853
Loans and advances to customers (note 21)	94,542	183,932	2,573,432	-	2,851,906
Debt instruments (note 22)	4,542	507	36,660	-	41,709
Guarantees and other commitments (note 38)	10,632	6,615	170,463	-	187,710
Total	110,126	191,828	2,781,224	-	3,083,178

(Thousands of euros)

Category	2018				
	Net exposure				
	Stage 1	Stage 2	Stage 3	POCI	Total
Financial assets at amortised cost					
Loans and advances to credit institutions (note 20)	880,150	9,883	-	-	890,033
Loans and advances to customers (note 21)	35,563,791	7,051,905	2,945,226	4	45,560,926
Debt instruments (note 22)	3,075,867	263,800	35,347	-	3,375,014
Debt instruments at fair value					
through other comprehensive income (note 23)	13,797,971	-	4,887	-	13,802,858
Guarantees and other commitments (notes 38 and 45)	10,691,563	1,484,388	469,811	-	12,645,762
Total	64,009,342	8,809,976	3,455,271	4	76,274,593

(*) For financial assets at fair value through other comprehensive income, impairment is recorded in accordance with the requirements indicated in the accounting policy 1 C1.5.1.2.

The maximum exposure to credit risk of financial assets not subject to impairment requirements is analysed as follows:

	(Thousands of euros)	
	2019	2018
Financial assets held for trading (note 23)		
Debt instruments	255,313	220,047
Derivatives	763,611	696,943
Financial assets designated at fair value through profit or loss - Debt instruments (note 23)	31,496	33,034
Financial assets not held for trading mandatorily at fair value through profit or loss		
Debt instruments (note 23)	1,037,480	1,108,605
Hedging derivatives (note 24)	87,677	185,525
Total	2,087,900	2,058,629

- In the case of financial assets, excluding derivatives, it is considered that its credit risk exposure is equal to its book value;
- In the case of derivatives, the maximum exposure to credit risk is its market value, plus its potential risk ("add-on").

During 2019, the changes occurred in Loans and advances to customers - gross amount are as follows:

	(Thousands of euros)				
	2019				
	Financial assets at amortised cost - Loans and advances to customers (gross)				
	Stage 1	Stage 2	Stage 3	POCI	Total
Gross amount as at 1 January	35,658,333	7,235,837	5,518,658	4	48,412,832
Changes in gross book value:					
Transfers from stage 1 to stage 2	(1,580,942)	1,580,942	-	-	-
Transfers from stage 1 to stage 3	(144,179)	-	144,179	-	-
Transfers from stage 2 to stage 1	1,713,624	(1,713,624)	-	-	-
Transfers from stage 2 to stage 3	-	(334,639)	334,639	-	-
Transfers from stage 3 to stage 1	46,668	-	(46,668)	-	-
Transfers from stage 3 to stage 2	-	407,346	(407,346)	-	-
Write-offs	(899)	(3,376)	(674,059)	-	(678,334)
Impact of acquisition/merger of Euro Bank	2,610,511	74,423	46,962	120,733	2,852,629
Net balance of new financial assets and derecognised financial assets and other variations	2,560,994	(26,425)	(858,249)	1,404	1,677,724
Gross amount at the end of the year	40,864,110	7,220,484	4,058,116	122,141	52,264,851

During 2019, the changes occurred in Loans and advances to customers - impairment are as follows:

	(Thousands of euros)				
	2019				
	Financial assets at amortised cost - Loans and advances to customers impairment				
	Stage 1	Stage 2	Stage 3	POCI	Total
Impairment losses as at 1 January	94,542	183,932	2,573,432	-	2,851,906
Change in impairment losses:					
Transfer to Stage 1	39,801	(35,498)	(4,303)	-	-
Transfer to Stage 2	(7,291)	47,833	(40,542)	-	-
Transfer to Stage 3	(1,712)	(18,508)	20,220	-	-
Changes occurred due to changes in credit risk	(52,163)	(18,260)	105,185	-	34,762
Write-offs	(719)	(3,376)	(674,059)	-	(678,154)
Impact of acquisition/merger of Euro Bank	12,769	8,455	18,564	13,109	52,897
Changes due to new financial assets and derecognised financial assets and other variations	9,539	26,300	119,259	513	155,611
Impairment losses at the end of the year	94,766	190,878	2,117,756	13,622	2,417,022

During 2018, the changes occurred in Loans and advances to customers – gross amount are as follows:

(Thousands of euros)

	2018				
	Financial assets at amortised cost – Loans and advances to customers (gross)				
	Stage 1	Stage 2	Stage 3	POCI	Total
Gross amount as at 1 January	34,511,663	7,177,992	6,960,474	-	48,650,129
Changes in gross book value:					
Transfer from Stage 1 to Stage 2	(1,805,394)	1,805,394	-	-	-
Transfer from Stage 1 to Stage 3	(161,037)	-	161,037	-	-
Transfer from Stage 2 to Stage 1	1,359,489	(1,359,489)	-	-	-
Transfer from Stage 2 to Stage 3	-	(481,014)	481,014	-	-
Transfer from Stage 3 to Stage 1	40,611	-	(40,611)	-	-
Transfer from Stage 3 to Stage 2	-	325,303	(325,303)	-	-
Write-offs	(8,218)	(32,515)	(635,807)	-	(676,540)
Net balance of new financial assets and derecognised financial assets and other changes	1,721,219	(199,834)	(1,082,146)	4	439,243
Gross amount at the end of the year	35,658,333	7,235,837	5,518,658	4	48,412,832

During 2018, the changes occurred in Loans and advances to customers – impairment are as follows:

(Thousands of euros)

	2018				
	Financial assets at amortised cost – Loans and advances to customers impairment				
	Stage 1	Stage 2	Stage 3	POCI	Total
Impairment losses as at 1 January 2018	112,344	244,708	3,165,613	-	3,522,665
Change in impairment losses:					
Transfer to Stage 1	39,995	(34,753)	(5,242)	-	-
Transfer to Stage 2	(8,140)	52,265	(44,125)	-	-
Transfer to Stage 3	(4,487)	(32,534)	37,021	-	-
Changes occurred due to changes in credit risk	(48,233)	(2,782)	393,564	-	342,549
Write-offs	(8,218)	(32,515)	(635,807)	-	(676,540)
Changes due to new financial assets and derecognised financial assets and other variations	11,281	(10,457)	(337,592)	-	(336,768)
Impairment losses at the end of the year	94,542	183,932	2,573,432	-	2,851,906

The modified financial assets that do not result in derecognition (with impairment losses based on expected lifetime losses) are analysed as follows:

(Thousands of euros)

Financial assets modified	2019	2018
Amortised cost before changes	669,892	547,969
Impairment losses before changes	(270,074)	(171,010)
Net amortised cost before changes	399,818	376,959
Net gain / loss arising on changes	(8,979)	(13,348)
Net amortised cost after changes	390,839	363,611

The financial assets changed since the initial recognition at a time when the impairment loss was measured based on the expected credit losses lifetime, are analysed as follows:

(Thousands of euros)

Financial assets changed	2019	2018
Amortised cost of financial assets for which credit losses expected to go from "lifetime" to 12 months	-	67,709

As at 31 December 2019, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments, analysed by segment and stage, are as follows:

(Thousands of euros)

	2019									
		Stage 2				Stage 3				
			Days past due <= 30 days	Days past due > 30 days		Days past due <= 90 days	Days past due > 90 days			
Segment	Stage 1	No delays			Total			Total	POCI	Total
Gross Exposure										
Individuals-Mortgage	22,353,466	2,409,116	153,136	53,818	2,616,070	290,423	336,520	626,943	21,869	25,618,348
Individuals-Other	7,915,090	722,034	108,364	63,299	893,697	243,799	333,221	577,020	100,373	9,486,180
Financial Companies	3,142,152	436,539	87	9	436,635	217,568	253,927	471,495	-	4,050,288
Non-financial comp. - Corporate	8,062,174	994,988	515	448	995,951	443,269	630,343	1,073,612	-	10,131,737
Non-financial comp.- SME-Corporate	9,541,235	2,369,242	22,412	4,655	2,396,309	793,661	323,413	1,117,074	-	13,054,618
Non-financial comp. -SME-Retail	4,091,815	1,232,296	36,575	13,744	1,282,615	409,553	207,741	617,294	22	5,991,746
Non-financial comp.-Other	463,226	122,636	14	-	122,650	9,677	57,553	67,230	-	653,106
Other loans	1,323,948	347,709	-	-	347,709	90	1	91	-	1,671,748
Total	56,893,106	8,634,560	321,103	135,973	9,091,636	2,408,040	2,142,719	4,550,759	122,264	70,657,765
Impairment										
Individuals-Mortgage	5,926	10,390	2,875	3,531	16,796	28,620	71,542	100,162	416	123,300
Individuals-Other	36,710	16,884	11,416	11,523	39,823	94,004	187,494	281,498	13,203	371,234
Financial Companies	1,976	5,198	10	1	5,209	142,056	203,236	345,292	-	352,477
Non-financial comp. - Corporate	22,635	19,230	3	34	19,267	269,938	386,084	656,022	-	697,924
Non-financial comp. -SME-Corporate	32,913	78,768	2,213	615	81,596	260,117	232,087	492,204	-	606,713
Non-financial comp. -SME-Retail	7,767	27,831	2,036	1,178	31,045	194,031	124,383	318,414	5	357,231
Non-financial comp.-Other	239	370	-	-	370	1,314	32,229	33,543	-	34,152
Other loans	1,759	3,691	-	-	3,691	-	-	-	-	5,450
Total	109,925	162,362	18,553	16,882	197,797	990,080	1,237,055	2,227,135	13,624	2,548,481
Net exposure										
Individuals-Mortgage	22,347,540	2,398,726	150,261	50,287	2,599,274	261,803	264,978	526,781	21,453	25,495,048
Individuals-Other	7,878,380	705,150	96,948	51,776	853,874	149,795	145,727	295,522	87,170	9,114,946
Financial Companies	3,140,176	431,341	77	8	431,426	75,512	50,691	126,203	-	3,697,805
Non-financial comp. - Corporate	8,039,539	975,758	512	414	976,684	173,331	244,259	417,590	-	9,433,813
Non-financial comp.- SME-Corporate	9,508,322	2,290,474	20,199	4,040	2,314,713	533,544	91,326	624,870	-	12,447,905
Non-financial comp. -SME-Retail	4,084,048	1,204,465	34,539	12,566	1,251,570	215,522	83,358	298,880	17	5,634,515
Non-financial comp.-Other	462,987	122,266	14	-	122,280	8,363	25,324	33,687	-	618,954
Other loans	1,322,189	344,018	-	-	344,018	90	1	91	-	1,666,298
Total	56,783,181	8,472,198	302,550	119,091	8,893,839	1,417,960	905,664	2,323,624	108,640	68,109,284
% of impairment coverage										
Individuals-Mortgage	0.03%	0.43%	1.88%	6.56%	0.64%	9.85%	21.26%	15.98%	1.90%	0.48%
Individuals-Other	0.46%	2.34%	10.54%	18.20%	4.46%	38.56%	56.27%	48.78%	13.15%	3.91%
Financial Companies	0.06%	1.19%	11.49%	10.79%	1.19%	65.29%	80.04%	73.23%	0.00%	8.70%
Non-financial comp. - Corporate	0.28%	1.93%	0.63%	7.55%	1.93%	60.90%	61.25%	61.10%	0.00%	6.89%
Non-financial comp.- SME-Corporate	0.34%	3.32%	9.88%	13.22%	3.41%	32.77%	71.76%	44.06%	0.00%	4.65%
Non-financial comp. -SME-Retail	0.19%	2.26%	5.57%	8.57%	2.42%	47.38%	59.87%	51.58%	24.69%	5.96%
Non-financial comp.-Other	0.05%	0.30%	0.32%	0.16%	0.30%	13.58%	56.00%	49.89%	0.00%	5.23%
Other loans	0.13%	1.06%	0.00%	86.57%	1.06%	0.34%	25.74%	0.65%	0.00%	0.33%
Total	0.19%	1.88%	5.78%	12.42%	2.18%	41.12%	57.73%	48.94%	11.14%	3.61%

As at 31 December 2019, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments, analysed by sector of activity and stage, are as follows:

(Thousands of euros)

	2019									
		Stage 2				Stage 3				
Sector of activity	Stage 1	No delays	Days past due <= 30 days	Days past due > 30 days	Total	Days past due <= 90 days	Days past due > 90 days	Total	POCI	Total
Gross Exposure										
Loans to individuals	30,268,556	3,131,150	261,500	117,117	3,509,767	534,222	669,741	1,203,963	122,242	35,104,528
Non-financial comp.- Trade	4,582,666	699,541	15,539	2,875	717,955	162,472	90,839	253,311	5	5,553,937
Non-financial comp.- Construction	1,818,997	661,929	5,314	1,413	668,656	497,493	223,261	720,754	7	3,208,414
Non finan. comp.- Manufacturing indust.	4,923,011	776,824	12,375	5,430	794,629	144,757	127,568	272,325	-	5,989,965
Non-financial comp.-Other activities	1,430,987	406,038	4,623	917	411,578	162,545	11,707	174,252	-	2,016,817
Non-financial comp.- Other services	9,402,789	2,174,830	21,665	8,212	2,204,707	688,893	765,675	1,454,568	10	13,062,074
Other Services /Other activities	4,466,100	784,248	87	9	784,344	217,658	253,928	471,586	-	5,722,030
Total	56,893,106	8,634,560	321,103	135,973	9,091,636	2,408,040	2,142,719	4,550,759	122,264	70,657,765
Impairment										
Loans to individuals	42,636	27,274	14,291	15,054	56,619	122,624	259,036	381,660	13,619	494,534
Non-financial comp.- Trade	14,704	12,532	935	378	13,845	77,103	50,035	127,138	1	155,688
Non-financial comp.- Construction	5,965	8,362	616	90	9,068	135,666	168,096	303,762	1	318,796
Non-financial comp.- Manufacturing indus	16,042	17,799	1,021	759	19,579	51,759	52,406	104,165	-	139,786
Non-financial comp.-Other activities	3,162	11,014	76	121	11,211	75,129	4,224	79,353	-	93,726
Non-financial comp.- Other services	23,681	76,492	1,604	479	78,575	385,743	500,022	885,765	3	988,024
Other Services /Other activities	3,735	8,889	10	1	8,900	142,056	203,236	345,292	-	357,927
Total	109,925	162,362	18,553	16,882	197,797	990,080	1,237,055	2,227,135	13,624	2,548,481
Net exposure										
Loans to individuals	30,225,920	3,103,876	247,209	102,063	3,453,148	411,598	410,705	822,303	108,623	34,609,994
Non-financial comp.- Trade	4,567,962	687,009	14,604	2,497	704,110	85,369	40,804	126,173	4	5,398,249
Non-financial comp.- Construction	1,813,032	653,567	4,698	1,323	659,588	361,827	55,165	416,992	6	2,889,618
Non finan. comp.- Manufacturing indust.	4,906,969	759,025	11,354	4,671	775,050	92,998	75,162	168,160	-	5,850,179
Non-financial comp.-Other activities	1,427,825	395,024	4,547	796	400,367	87,416	7,483	94,899	-	1,923,091
Non-financial comp.- Other services	9,379,108	2,098,338	20,061	7,733	2,126,132	303,150	265,653	568,803	7	12,074,050
Other Services /Other activities	4,462,365	775,359	77	8	775,444	75,602	50,692	126,294	-	5,364,103
Total	56,783,181	8,472,198	302,550	119,091	8,893,839	1,417,960	905,664	2,323,624	108,640	68,109,284
% of impairment coverage										
Loans to individuals	0.14%	0.87%	5.47%	12.85%	1.61%	22.95%	38.68%	31.70%	11.14%	1.41%
Non-financial comp.- Trade	0.32%	1.79%	6.02%	13.16%	1.93%	47.46%	55.08%	50.19%	19.52%	2.80%
Non-financial comp.- Construction	0.33%	1.26%	11.59%	6.39%	1.36%	27.27%	75.29%	42.15%	17.98%	9.94%
Non finan. comp.- Manufacturing indust.	0.33%	2.29%	8.25%	13.97%	2.46%	35.76%	41.08%	38.25%	0.00%	2.33%
Non-financial comp.-Other activities	0.22%	2.71%	1.63%	13.20%	2.72%	46.22%	36.08%	45.54%	0.00%	4.65%
Non-financial comp.- Other services	0.25%	3.52%	7.41%	5.83%	3.56%	55.99%	65.30%	60.90%	32.25%	7.56%
Other Services /Other activities	0.08%	1.13%	11.49%	12.31%	1.13%	65.27%	80.04%	73.22%	0.00%	6.26%
Total	0.19%	1.88%	5.78%	12.42%	2.18%	41.12%	57.73%	48.94%	11.14%	3.61%

As at 31 December 2019, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments, analysed by geography and stage, are as follows:

(Thousands of euros)

Geography	2019									
	Stage 1	No delays	Stage 2		Total	Days past due <= 90 days	Stage 3		POCI	Total
			Days past due <= 30 days	Days past due > 30 days			Days past due <= 90 days	Days past due > 90 days		
Gross Exposure										
Portugal	37,360,242	7,539,145	213,859	50,683	7,803,687	2,091,146	1,634,199	3,725,345	4	48,889,278
Poland	17,805,331	637,164	103,279	83,608	824,051	280,998	375,142	656,140	122,260	19,407,782
Mozambique	1,223,817	458,251	3,965	1,682	463,898	32,342	133,378	165,720	-	1,853,435
Switzerland	503,716	-	-	-	-	3,554	-	3,554	-	507,270
Total	56,893,106	8,634,560	321,103	135,973	9,091,636	2,408,040	2,142,719	4,550,759	122,264	70,657,765
Impairment										
Portugal	29,491	135,225	6,309	2,365	143,899	862,601	946,988	1,809,589	-	1,982,979
Poland	76,111	20,991	11,359	14,078	46,428	115,442	222,327	337,769	13,624	473,932
Mozambique	3,966	6,146	885	439	7,470	8,488	67,740	76,228	-	87,664
Switzerland	357	-	-	-	-	3,549	-	3,549	-	3,906
Total	109,925	162,362	18,553	16,882	197,797	990,080	1,237,055	2,227,135	13,624	2,548,481
Net exposure										
Portugal	37,330,751	7,403,920	207,550	48,318	7,659,788	1,228,545	687,211	1,915,756	4	46,906,299
Poland	17,729,220	616,173	91,920	69,530	777,623	165,556	152,815	318,371	108,636	18,933,850
Mozambique	1,219,851	452,105	3,080	1,243	456,428	23,854	65,638	89,492	-	1,765,771
Switzerland	503,359	-	-	-	-	5	-	5	-	503,364
Total	56,783,181	8,472,198	302,550	119,091	8,893,839	1,417,960	905,664	2,323,624	108,640	68,109,284
% of impairment coverage										
Portugal	0.08%	1.79%	2.95%	4.67%	1.84%	41.25%	57.95%	48.58%	0.00%	4.06%
Poland	0.43%	3.29%	11.00%	16.84%	5.63%	41.08%	59.26%	51.48%	11.14%	2.44%
Mozambique	0.32%	1.34%	22.33%	26.10%	1.61%	26.25%	50.79%	46.00%	0.00%	4.73%
Switzerland	0.07%	0.00%	0.00%	0.00%	0.00%	99.87%	0.00%	99.87%	0.00%	0.77%
Total	0.19%	1.88%	5.78%	12.42%	2.18%	41.12%	57.73%	48.94%	11.14%	3.61%

As at 31 December 2019, the gross exposure, by type of financial instrument, internal rating (attributed in Portugal and in Poland) and stage, is analysed as follows:

(Thousands of euros)

	2019							
	Gross Exposure					Total	Impairment losses	Net exposure
	Higher quality (GR 1-6)	Average quality (GR 7-9)	Lower quality (GR 10-12)	Procedural (GR 13/14/15)	Not classified (without risk grade)			
Financial assets at amortised cost								
stage 1	27,229,156	9,199,924	3,325,337	24,978	3,593,623	43,373,018	96,281	43,276,737
stage 2	1,156,108	1,649,110	2,999,799	498,649	615,424	6,919,090	184,280	6,734,810
stage 3	1,054	3,425	66,159	3,757,614	75,746	3,903,998	2,048,079	1,855,919
POCI	434	536	456	112,054	8,662	122,142	13,622	108,520
	28,386,752	10,852,995	6,391,751	4,393,295	4,293,455	54,318,248	2,342,262	51,975,986
Debt instruments at fair value through other comprehensive income (*)								
stage 1	12,732,509	88,792	184	-	276,641	13,098,126	-	13,098,126
stage 2	-	-	-	-	-	-	-	-
stage 3	-	-	-	-	-	-	-	-
	12,732,509	88,792	184	-	276,641	13,098,126	-	13,098,126
Guarantees and other commitments								
stage 1	7,431,539	2,938,347	940,101	235	482,333	11,792,555	9,321	11,783,234
stage 2	206,446	342,793	640,031	65,466	453,912	1,708,648	6,047	1,702,601
stage 3	9	9	18,415	457,458	1,596	477,487	99,279	378,208
	7,637,994	3,281,149	1,598,547	523,159	937,841	13,978,690	114,647	13,864,043
Total	48,757,255	14,222,936	7,990,482	4,916,454	5,507,937	81,395,064	2,456,909	78,938,155

(*) For financial assets at fair value through other comprehensive income, impairment is recorded in accordance with the requirements indicated in the accounting policy 1 C1.5.1.2.

The gross exposure includes the guarantees granted, irrevocable credit lines and revocable commitments, as detailed in note 45.

As at 31 December 2018, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments, analysed by segment and stage, are as follows:

(Thousands of euros)

	2018									
		Stage 2				Stage 3				
Segment	Stage 1	No delays	Days past due <= 30 days	Days past due > 30 days	Total	Days past due <= 90 days	Days past due > 90 days	Total	POCI	Total
Gross Exposure										
Individuals-Mortgage	19,749,462	2,536,079	197,808	46,836	2,780,723	429,851	551,741	981,592	-	23,511,777
Individuals-Other	5,552,362	714,557	102,982	32,516	850,055	267,829	371,734	639,563	4	7,041,984
Financial Companies	2,968,123	363,896	-	-	363,896	283,266	372,289	655,555	-	3,987,574
Non-financial comp. - Corporate	7,633,705	1,230,536	6,688	202	1,237,426	599,083	637,974	1,237,057	-	10,108,188
Non-financial comp.- SME-Corporate	9,015,943	2,041,249	25,862	3,241	2,070,352	1,088,217	622,686	1,710,903	-	12,797,198
Non-financial comp. -SME-Retail	3,381,566	1,151,099	64,964	6,624	1,222,687	558,034	357,637	915,671	-	5,519,924
Non-financial comp.-Other	282,342	173,104	351	143	173,598	31,802	58,226	90,028	-	545,968
Other loans	1,737,994	302,936	43	88	303,067	11	1,228	1,239	-	2,042,300
Total	50,321,497	8,513,456	398,698	89,650	9,001,804	3,258,093	2,973,515	6,231,608	4	65,554,913
Impairment										
Individuals-Mortgage	6,527	10,629	7,063	2,865	20,557	32,951	103,478	136,429	-	163,513
Individuals-Other	28,974	16,796	10,419	5,249	32,464	109,544	216,385	325,929	-	387,367
Financial Companies	2,266	7,318	-	-	7,318	187,600	280,991	468,591	-	478,175
Non-financial comp. - Corporate	23,010	33,240	109	5	33,354	346,914	378,883	725,797	-	782,161
Non-financial comp. - SME-Corporate	37,788	53,270	1,829	1,250	56,349	347,670	362,971	710,641	-	804,778
Non-financial comp. -SME-Retail	8,906	29,055	2,047	760	31,862	216,571	165,252	381,823	-	422,591
Non-financial comp.-Other	775	3,716	11	13	3,740	17,295	13,479	30,774	-	35,289
Other loans	1,880	6,184	-	-	6,184	11	1,229	1,240	-	9,304
Total	110,126	160,208	21,478	10,142	191,828	1,258,556	1,522,668	2,781,224	-	3,083,178
Net exposure										
Individuals-Mortgage	19,742,935	2,525,450	190,745	43,971	2,760,166	396,900	448,263	845,163	-	23,348,264
Individuals-Other	5,523,388	697,761	92,563	27,267	817,591	158,285	155,349	313,634	4	6,654,617
Financial Companies	2,965,857	356,578	-	-	356,578	95,666	91,298	186,964	-	3,509,399
Non-financial comp. - Corporate	7,610,695	1,197,296	6,579	197	1,204,072	252,169	259,091	511,260	-	9,326,027
Non-financial comp.- SME-Corporate	8,978,155	1,987,979	24,033	1,991	2,014,003	740,547	259,715	1,000,262	-	11,992,420
Non-financial comp. -SME-Retail	3,372,660	1,122,044	62,917	5,864	1,190,825	341,463	192,385	533,848	-	5,097,333
Non-financial comp.-Other	281,567	169,388	340	130	169,858	14,507	44,747	59,254	-	510,679
Other loans	1,736,114	296,752	43	88	296,883	-	(1)	(1)	-	2,032,996
Total	50,211,371	8,353,248	377,220	79,508	8,809,976	1,999,537	1,450,847	3,450,384	4	62,471,735
% of impairment coverage										
Individuals-Mortgage	0.03%	0.42%	3.57%	6.12%	0.74%	7.67%	18.75%	13.90%	0.00%	0.70%
Individuals-Other	0.52%	2.35%	10.12%	16.14%	3.82%	40.90%	58.21%	50.96%	0.00%	5.50%
Financial Companies	0.08%	2.01%	7.10%	21.98%	2.01%	66.23%	75.48%	71.48%	0.00%	11.99%
Non-financial comp. - Corporate	0.30%	2.70%	1.63%	2.67%	2.70%	57.91%	59.39%	58.67%	0.00%	7.74%
Non-financial comp.- SME-Corporate	0.42%	2.61%	7.07%	38.58%	2.72%	31.95%	58.29%	41.54%	0.00%	6.29%
Non-financial comp. -SME-Retail	0.26%	2.52%	3.15%	11.47%	2.61%	38.81%	46.21%	41.70%	0.00%	7.66%
Non-financial comp.-Other	0.27%	2.15%	3.17%	8.86%	2.15%	54.38%	23.15%	34.18%	0.00%	6.46%
Other loans	0.11%	2.04%	1.04%	0.22%	2.04%	100.00%	99.92%	99.92%	0.00%	0.46%
Total	0.22%	1.88%	5.39%	11.31%	2.13%	38.63%	51.21%	44.63%	0.00%	4.70%

As at 31 December 2018, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments, analysed by sector of activity and stage, are as follows:

(Thousands of euros)

	2018									
		Stage 2				Stage 3				
			Days past due <= 30 days	Days past due > 30 days		Days past due <= 90 days	Days past due > 90 days			
Sector of activity	Stage 1	No delays			Total			Total	POCI	Total
Gross Exposure										
Loans to individuals	25,301,824	3,250,636	300,790	79,352	3,630,778	697,680	923,475	1,621,155	4	30,553,761
Non-financial comp.- Trade	4,247,942	642,117	14,849	2,904	659,870	230,067	157,920	387,987	-	5,295,799
Non-financial comp.- Construction	1,574,944	525,725	7,678	2,245	535,648	705,122	457,206	1,162,328	-	3,272,920
Non finan. comp.- Manufacturing indust.	4,474,126	903,046	16,952	1,291	921,289	146,016	169,215	315,231	-	5,710,646
Non-financial comp.-Other activities	1,349,242	320,945	2,313	502	323,760	212,992	18,897	231,889	-	1,904,891
Non-financial comp.- Other services	8,667,302	2,204,155	56,073	3,268	2,263,496	982,939	873,285	1,856,224	-	12,787,022
Other Services /Other activities	4,706,117	666,832	43	88	666,963	283,277	373,517	656,794	-	6,029,874
Total	50,321,497	8,513,456	398,698	89,650	9,001,804	3,258,093	2,973,515	6,231,608	4	65,554,913
Impairment										
Loans to individuals	35,501	27,425	17,482	8,114	53,021	142,495	319,863	462,358	-	550,880
Non-financial comp.- Trade	14,814	16,075	783	902	17,760	92,613	92,945	185,558	-	218,132
Non-financial comp.- Construction	6,299	5,719	1,099	550	7,368	265,322	263,502	528,824	-	542,491
Non-financial comp.- Manufacturing indus	17,935	18,086	1,039	132	19,257	52,154	88,621	140,775	-	177,967
Non-financial comp.-Other activities	2,407	10,089	75	70	10,234	90,586	8,189	98,775	-	111,416
Non-financial comp.- Other services	29,024	69,312	1,000	374	70,686	427,775	467,328	895,103	-	994,813
Other Services /Other activities	4,146	13,502	-	-	13,502	187,611	282,220	469,831	-	487,479
Total	110,126	160,208	21,478	10,142	191,828	1,258,556	1,522,668	2,781,224	-	3,083,178
Net exposure										
Loans to individuals	25,266,323	3,223,211	283,308	71,238	3,577,757	555,185	603,612	1,158,797	4	30,002,881
Non-financial comp.- Trade	4,233,128	626,042	14,066	2,002	642,110	137,454	64,975	202,429	-	5,077,667
Non-financial comp.- Construction	1,568,645	520,006	6,579	1,695	528,280	439,800	193,704	633,504	-	2,730,429
Non finan. comp.- Manufacturing indust.	4,456,191	884,960	15,913	1,159	902,032	93,862	80,594	174,456	-	5,532,679
Non-financial comp.-Other activities	1,346,835	310,856	2,238	432	313,526	122,406	10,708	133,114	-	1,793,475
Non-financial comp.- Other services	8,638,278	2,134,843	55,073	2,894	2,192,810	555,164	405,957	961,121	-	11,792,209
Other Services /Other activities	4,701,971	653,330	43	88	653,461	95,666	91,297	186,963	-	5,542,395
Total	50,211,371	8,353,248	377,220	79,508	8,809,976	1,999,537	1,450,847	3,450,384	4	62,471,735
% of impairment coverage										
Loans to individuals	0.14%	0.84%	5.81%	10.23%	1.46%	20.42%	34.64%	28.52%	0.00%	1.80%
Non-financial comp.- Trade	0.35%	2.50%	5.28%	31.06%	2.69%	40.25%	58.86%	47.83%	0.00%	4.12%
Non-financial comp.- Construction	0.40%	1.09%	14.31%	24.49%	1.38%	37.63%	57.63%	45.50%	0.00%	16.58%
Non finan. comp.- Manufacturing indust.	0.40%	2.00%	6.13%	10.20%	2.09%	35.72%	52.37%	44.66%	0.00%	3.12%
Non-financial comp.-Other activities	0.18%	3.14%	3.25%	13.99%	3.16%	42.53%	43.34%	42.60%	0.00%	5.85%
Non-financial comp.- Other services	0.33%	3.14%	1.78%	11.46%	3.12%	43.52%	53.51%	48.22%	0.00%	7.78%
Other Services /Other activities	0.09%	2.02%	1.04%	0.32%	2.02%	66.23%	75.56%	71.53%	0.00%	8.08%
Total	0.22%	1.88%	5.39%	11.31%	2.13%	38.63%	51.21%	44.63%	0.00%	4.70%

As at 31 December 2018, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments, analysed by geography and stage, are as follows:

(Thousands of euros)										
Geography	2018									
	Stage 1	No delays	Stage 2		Total	Stage 3		Total	POCI	Total
			Days past due <= 30 days	Days past due > 30 days		Days past due <= 90 days	Days past due > 90 days			
Gross Exposure										
Portugal	35,135,414	7,451,625	241,597	40,889	7,734,111	2,966,505	2,524,585	5,491,090	4	48,360,619
Poland	13,457,252	622,012	137,888	45,848	805,748	260,144	316,334	576,478	-	14,839,478
Mozambique	1,250,611	439,819	19,213	2,913	461,945	27,866	132,596	160,462	-	1,873,018
Switzerland	478,220	-	-	-	-	3,578	-	3,578	-	481,798
Total	50,321,497	8,513,456	398,698	89,650	9,001,804	3,258,093	2,973,515	6,231,608	4	65,554,913
Impairment										
Portugal	31,379	124,608	5,442	1,429	131,479	1,126,917	1,272,926	2,399,843	-	2,562,701
Poland	67,895	24,838	12,879	7,398	45,115	108,280	200,123	308,403	-	421,413
Mozambique	10,094	10,762	3,157	1,315	15,234	20,652	49,619	70,271	-	95,599
Switzerland	758	-	-	-	-	2,707	-	2,707	-	3,465
Total	110,126	160,208	21,478	10,142	191,828	1,258,556	1,522,668	2,781,224	-	3,083,178
Net exposure										
Portugal	35,104,035	7,327,017	236,155	39,460	7,602,632	1,839,588	1,251,659	3,091,247	4	45,797,918
Poland	13,389,357	597,174	125,009	38,450	760,633	151,864	116,211	268,075	-	14,418,065
Mozambique	1,240,517	429,057	16,056	1,598	446,711	7,214	82,977	90,191	-	1,777,419
Switzerland	477,462	-	-	-	-	871	-	871	-	478,333
Total	50,211,371	8,353,248	377,220	79,508	8,809,976	1,999,537	1,450,847	3,450,384	4	62,471,735
% of impairment coverage										
Portugal	0.09%	1.67%	2.25%	3.49%	1.70%	37.99%	50.42%	43.70%	0.00%	5.30%
Poland	0.50%	3.99%	9.34%	16.14%	5.60%	41.62%	63.26%	53.50%	0.00%	2.84%
Mozambique	0.81%	2.45%	16.43%	45.16%	3.30%	74.11%	37.42%	43.79%	0.00%	5.10%
Switzerland	0.16%	0.00%	0.00%	0.00%	0.00%	75.66%	0.00%	75.66%	0.00%	0.72%
Total	0.22%	1.88%	5.39%	11.31%	2.13%	38.63%	51.21%	44.63%	0.00%	4.70%

As at 31 December 2018, the gross exposure, by type of financial instrument, internal rating (attributed in Portugal and in Poland) and stage, is analysed as follows:

(Thousands of euros)									
	2018								
	Gross Exposure						Total	Impairment losses	Net exposure
	Higher quality (GR 1-6)	Average quality (GR 7-9)	Lower quality (GR 10-12)	Procedural (GR 13/14/15)	Not classified (without risk grade)				
Financial assets at amortised cost									
stage 1	25,159,396	8,953,561	2,853,215	35	1,181,364		38,147,571	90,088	38,057,483
stage 2	1,205,609	1,583,594	3,037,028	474,487	774,553		7,075,271	170,144	6,905,127
stage 3	2,549	10,477	96,250	5,246,346	73,159		5,428,781	2,538,296	2,890,485
POCI	-	-	-	-	4		4	-	4
	26,367,554	10,547,632	5,986,493	5,720,868	2,029,080		50,651,627	2,798,528	47,853,099
Debt instruments at fair value through other comprehensive income (*)									
stage 1	13,708,187	83,940	-	-	5,843		13,797,970	-	13,797,970
stage 3	-	-	-	-	4,887		4,887	-	4,887
	13,708,187	83,940	-	-	10,730		13,802,857	-	13,802,857
Guarantees and other commitments									
stage 1	6,664,521	2,619,025	759,108	24	402,415		10,445,093	9,186	10,435,907
stage 2	205,729	304,644	609,108	49,856	295,250		1,464,587	6,451	1,458,136
stage 3	60	5	25,145	609,961	3,617		638,788	169,948	468,840
	6,870,310	2,923,674	1,393,361	659,841	701,282		12,548,468	185,585	12,362,883
Total	46,946,051	13,555,246	7,379,854	6,380,709	2,741,092		77,002,952	2,984,113	74,018,839

(*) For financial assets at fair value through other comprehensive income, impairment is recorded in accordance with the requirements indicated in the accounting policy 1 C1.5.1.2.

The gross exposure includes the guarantees granted, irrevocable credit lines and revocable commitments, as detailed in note 45.

As at 31 December 2019, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments subject to individual and collective impairment, by segment, by sector of activity and by geography, are presented in the following tables:

(Thousands of euros)

Segment	2019					
	Gross Exposure			Impairment losses		
	Individual	Collective	Total	Individual	Collective	Total
Individuals-Mortgage	29,015	25,589,333	25,618,348	10,216	113,084	123,300
Individuals-Other	115,704	9,370,476	9,486,180	29,834	341,400	371,234
Financial Companies	458,198	3,592,084	4,050,282	344,870	7,607	352,477
Non-financial comp. - Corporate	1,044,443	9,087,294	10,131,737	649,682	48,242	697,924
Non-financial comp. - SME-Corporate	902,774	12,151,844	13,054,618	452,958	153,755	606,713
Non-financial comp. -SME-Retail	438,601	5,553,145	5,991,746	255,339	101,892	357,231
Non-financial comp.-Other	61,862	591,244	653,106	33,358	794	34,152
Other loans	-	1,671,748	1,671,748	-	5,450	5,450
Total	3,050,597	67,607,168	70,657,765	1,776,257	772,224	2,548,481

(Thousands of euros)

Sector of activity	2019					
	Gross Exposure			Impairment losses		
	Individual	Collective	Total	Individual	Collective	Total
Loans to individuals	144,718	34,959,810	35,104,528	40,050	454,484	494,534
Non-financial comp.- Trade	167,971	5,385,966	5,553,937	98,054	57,634	155,688
Non-financial comp.- Construction	605,188	2,603,226	3,208,414	281,705	37,091	318,796
Non finan. comp.- Manufacturing indust.	170,689	5,819,276	5,989,965	82,803	56,983	139,786
Non-financial comp.-Other activities	152,241	1,864,576	2,016,817	75,203	18,523	93,726
Non-financial comp.- Other services	1,351,591	11,710,483	13,062,074	853,573	134,451	988,024
Other Services /Other activities	458,199	5,263,831	5,722,030	344,869	13,058	357,927
Total	3,050,597	67,607,168	70,657,765	1,776,257	772,224	2,548,481

(Thousands of euros)

Geography	2019					
	Gross Exposure			Impairment losses		
	Individual	Collective	Total	Individual	Collective	Total
Portugal	2,732,595	46,156,683	48,889,278	1,626,492	356,487	1,982,979
Poland	181,361	19,226,421	19,407,782	83,898	390,034	473,932
Mozambique	133,087	1,720,348	1,853,435	62,318	25,346	87,664
Switzerland	3,554	503,716	507,270	3,549	357	3,906
Total	3,050,597	67,607,168	70,657,765	1,776,257	772,224	2,548,481

The balances Gross Exposure and Collective Impairment include the loans subject to individual analysis for which the Group has concluded that there is no objective evidence of impairment.

As at 31 December 2018, financial assets at amortised cost, guarantees granted, irrevocable credit lines and revocable commitments subject to individual and collective impairment, by segment, by sector of activity and by geography, are presented in the following tables:

(Thousands of euros)

Segment	2018					
	Gross Exposure			Impairment losses		
	Individual	Collective	Total	Individual	Collective	Total
Individuals-Mortgage	32,543	23,479,234	23,511,777	12,377	151,136	163,513
Individuals-Other	158,089	6,883,895	7,041,984	63,796	323,571	387,367
Financial Companies	639,580	3,347,994	3,987,574	465,963	12,212	478,175
Non-financial comp. - Corporate	1,220,815	8,887,373	10,108,188	720,016	62,145	782,161
Non-financial comp.- SME-Corporate	1,343,991	11,453,207	12,797,198	603,860	200,918	804,778
Non-financial comp. -SME-Retail	670,617	4,849,307	5,519,924	297,013	125,578	422,591
Non-financial comp.-Other	84,175	461,793	545,968	28,034	7,255	35,289
Other loans	1,238	2,041,062	2,042,300	1,238	8,066	9,304
Total	4,151,048	61,403,865	65,554,913	2,192,297	890,881	3,083,178

(Thousands of euros)

Sector of activity	2018					
	Gross Exposure			Impairment losses		
	Individual	Collective	Total	Individual	Collective	Total
Loans to individuals	190,631	30,363,130	30,553,761	76,174	474,706	550,880
Non-financial comp.- Trade	258,813	5,036,986	5,295,799	141,116	77,016	218,132
Non-financial comp.- Construction	985,308	2,287,612	3,272,920	471,588	70,903	542,491
Non finan. comp.- Manufacturing indust.	199,963	5,510,683	5,710,646	105,874	72,093	177,967
Non-financial comp.-Other activities	201,314	1,703,577	1,904,891	90,656	20,760	111,416
Non-financial comp.- Other services	1,674,201	11,112,821	12,787,022	839,687	155,126	994,813
Other Services /Other activities	640,818	5,389,056	6,029,874	467,202	20,277	487,479
Total	4,151,048	61,403,865	65,554,913	2,192,297	890,881	3,083,178

(Thousands of euros)

Geography	2018					
	Gross Exposure			Impairment losses		
	Individual	Collective	Total	Individual	Collective	Total
Portugal	3,833,290	44,527,329	48,360,619	2,046,861	515,840	2,562,701
Poland	172,336	14,667,142	14,839,478	87,960	333,453	421,413
Mozambique	141,844	1,731,174	1,873,018	54,769	40,830	95,599
Switzerland	3,578	478,220	481,798	2,707	758	3,465
Total	4,151,048	61,403,865	65,554,913	2,192,297	890,881	3,083,178

The balances Gross Exposure and Collective Impairment include the loans subject to individual analysis for which the Group has concluded that there is no objective evidence of impairment.

As at 31 December 2019, the following table includes the loans portfolio by segment and by year of production (date of the beginning of the operations, in the portfolio at the date of balance sheet - it does not include restructured loans):

Year of production	2019					Total
	Construction and CRE	Companies - Oth. Activities	Mortgage loans	Individuals - Other	Other loans	
2009 and previous						
Number of operations	17,070	27,744	324,486	611,691	385	981,376
Value (Euros '000)	1,098,178	3,889,372	13,295,414	1,053,292	22,035	19,358,291
Impairment constituted (Euros '000)	104,226	130,808	105,157	18,205	182	358,578
2010						
Number of operations	1,675	3,557	21,269	98,942	42	125,485
Value (Euros '000)	155,253	385,822	979,221	177,869	6,340	1,704,505
Impairment constituted (Euros '000)	10,486	12,877	5,437	2,869	370	32,039
2011						
Number of operations	1,725	4,645	15,104	112,267	19	133,760
Value (Euros '000)	78,994	411,266	650,922	185,559	1,312	1,328,053
Impairment constituted (Euros '000)	9,134	14,440	3,869	4,264	12	31,719
2012						
Number of operations	1,629	5,250	13,289	120,107	209	140,484
Value (Euros '000)	98,151	318,169	530,220	167,261	15,625	1,129,426
Impairment constituted (Euros '000)	4,763	16,965	5,676	6,264	663	34,331
2013						
Number of operations	2,331	6,893	13,349	142,202	44	164,819
Value (Euros '000)	125,157	864,816	584,262	192,277	74,566	1,841,078
Impairment constituted (Euros '000)	13,095	49,704	7,744	10,635	37,955	119,133
2014						
Number of operations	2,446	9,630	11,529	166,901	114	190,620
Value (Euros '000)	137,239	924,371	555,774	246,849	223,382	2,087,615
Impairment constituted (Euros '000)	8,951	49,380	6,418	17,301	694	82,744
2015						
Number of operations	3,791	15,509	13,989	255,641	248	289,178
Value (Euros '000)	205,091	1,377,949	760,503	484,927	118,968	2,947,438
Impairment constituted (Euros '000)	22,617	64,782	4,524	33,907	7,293	133,123
2016						
Number of operations	4,352	21,555	15,876	272,966	204	314,953
Value (Euros '000)	296,587	2,108,876	904,586	674,725	112,707	4,097,481
Impairment constituted (Euros '000)	16,843	102,965	4,418	40,701	2,702	167,629
2017						
Number of operations	5,514	27,110	25,886	300,210	279	358,999
Value (Euros '000)	561,497	2,446,356	1,763,007	830,302	164,562	5,765,724
Impairment constituted (Euros '000)	42,394	84,823	5,317	40,748	3,229	176,511
2018						
Number of operations	9,199	39,431	33,391	556,652	508	639,181
Value (Euros '000)	1,375,058	4,168,601	2,626,272	1,607,824	578,385	10,356,140
Impairment constituted (Euros '000)	13,609	59,314	3,537	50,647	8,488	135,595
2019						
Number of operations	18,526	180,431	36,975	1,253,320	4,142	1,493,394
Value (Euros '000)	1,775,386	7,322,607	3,095,865	2,983,482	459,630	15,636,970
Impairment constituted (Euros '000)	14,784	122,409	4,174	46,290	1,770	189,427
Total						
Number of operations	68,258	341,755	525,143	3,890,899	6,194	4,832,249
Value (Euros '000)	5,906,591	24,218,205	25,746,046	8,604,367	1,777,512	66,252,721
Impairment constituted (Euros '000)	260,902	708,467	156,271	271,831	63,358	1,460,829

In the year of the current production, are included operations that, by their nature, are contractually subject to renewals. In these cases, the date of the last renewal is considered, namely for overdraft operations, secured current account and factoring operations.

As at 31 December 2018, the following table includes the loans portfolio by segment and by year of production (date of the beginning of the operations, in the portfolio at the date of balance sheet - it does not include restructured loans):

Year of production	2018					Total
	Construction and CRE	Companies - Oth. Activities	Mortgage loans	Individuals - Other	Other loans	
2008 and previous						
Number of operations	17,356	27,714	322,834	611,393	478	979,775
Value (Euros '000)	1,084,845	3,584,254	13,454,506	1,034,717	50,947	19,209,269
Impairment constituted (Euros '000)	168,452	163,012	135,942	26,295	771	494,472
2009						
Number of operations	2,077	3,273	18,789	73,636	64	97,839
Value (Euros '000)	237,103	685,307	903,711	114,823	7,638	1,948,582
Impairment constituted (Euros '000)	23,915	14,271	7,467	4,585	176	50,414
2010						
Number of operations	2,001	4,058	20,615	106,117	64	132,855
Value (Euros '000)	183,439	488,464	1,014,984	192,961	9,896	1,889,744
Impairment constituted (Euros '000)	19,436	15,042	6,723	3,872	594	45,667
2011						
Number of operations	1,960	5,450	13,584	122,165	43	143,202
Value (Euros '000)	98,288	464,657	618,493	193,887	11,437	1,386,762
Impairment constituted (Euros '000)	13,435	14,889	4,167	5,624	568	38,683
2012						
Number of operations	1,861	5,812	11,104	132,350	259	151,386
Value (Euros '000)	108,842	514,859	457,504	182,500	17,890	1,281,595
Impairment constituted (Euros '000)	9,720	90,442	6,146	7,281	338	113,927
2013						
Number of operations	2,833	8,494	11,479	167,727	116	190,649
Value (Euros '000)	139,013	966,916	514,301	230,884	144,862	1,995,976
Impairment constituted (Euros '000)	21,422	54,113	7,606	14,703	17,363	115,207
2014						
Number of operations	3,216	13,391	8,545	212,415	224	237,791
Value (Euros '000)	181,713	1,074,423	436,849	313,691	220,795	2,227,471
Impairment constituted (Euros '000)	9,084	43,856	6,413	24,582	819	84,754
2015						
Number of operations	4,850	20,901	9,886	292,179	448	328,264
Value (Euros '000)	265,538	1,782,911	586,031	517,277	224,327	3,376,084
Impairment constituted (Euros '000)	32,095	145,900	4,230	41,267	7,020	230,512
2016						
Number of operations	5,389	27,322	13,692	289,145	382	335,930
Value (Euros '000)	416,921	2,528,360	858,463	693,072	206,116	4,702,932
Impairment constituted (Euros '000)	31,960	119,846	4,202	37,250	4,137	197,395
2017						
Number of operations	6,189	31,197	25,233	306,462	440	369,521
Value (Euros '000)	696,026	3,046,700	1,834,789	877,639	262,900	6,718,054
Impairment constituted (Euros '000)	45,668	92,627	5,114	31,016	6,008	180,433
2018						
Number of operations	14,010	132,610	32,879	634,048	4,017	817,564
Value (Euros '000)	1,942,173	8,159,206	2,723,382	1,933,972	803,583	15,562,316
Impairment constituted (Euros '000)	29,250	143,454	4,332	31,428	17,731	226,195
Total						
Number of operations	61,742	280,222	488,640	2,947,637	6,535	3,784,776
Value (Euros '000)	5,353,901	23,296,057	23,403,013	6,285,423	1,960,391	60,298,785
Impairment constituted (Euros '000)	404,437	897,452	192,342	227,903	55,525	1,777,659

In the year of the current production, are included operations that, by their nature, are contractually subject to renewals. In these cases, the date of the last renewal is considered, namely for overdraft operations, secured current account and factoring operations.

As at 31 December 2019, the following table includes the fair value of the collaterals (not limited by the value of the collateral) associated to the loans portfolio by segments Construction and CRE, Companies - Other Activities and Mortgage loans:

Fair Value	2019					
	Construction and CRE		Companies - Other Activities		Mortgage loans	
	Real Estate	Other real Collateral (*)	Real Estate	Other real Collateral (*)	Real Estate	Other real Collateral (*)
< 0.5 M€						
Number	6,437	9,745	10,791	74,567	453,331	413
Value (Euros '000)	833,563	228,720	1,526,932	1,608,063	52,185,423	22,193
>= 0.5 M€ and < 1 M€						
Number	685	46	1,366	279	4,234	6
Value (Euros '000)	476,576	29,484	952,816	192,906	2,747,545	3,487
>= 1 M€ and < 5 M€						
Number	910	895	1,104	276	848	12
Value (Euros '000)	1,274,189	240,034	2,146,890	422,576	845,945	3,606
>= 5 M€ and < 10 M€						
Number	86	8	126	24	6	-
Value (Euros '000)	588,600	62,474	850,782	157,821	39,768	-
>= 10 M€ and < 20 M€						
Number	42	4	60	16	-	-
Value (Euros '000)	576,221	50,642	803,455	240,773	-	-
>= 20 M€ and < 50 M€						
Number	33	4	24	3	-	-
Value (Euros '000)	869,417	73,324	709,533	96,262	-	-
>= 50 M€						
Number	3	-	12	4	-	-
Value (Euros '000)	171,131	-	924,316	863,177	-	-
Total						
Number	8,196	10,702	13,483	75,169	458,419	431
Value (Euros '000)	4,789,697	684,678	7,914,724	3,581,578	55,818,681	29,286

(*) Includes, namely, securities, deposits and fixed assets pledged.

As at 31 December 2018, the following table includes the fair value of the collaterals (not limited by the value of the collateral) associated to the loans portfolio by segments Construction and CRE, Companies - Other Activities and Mortgage loans:

Fair Value	2018					
	Construction and CRE		Companies - Other Activities		Mortgage loans	
	Real Estate	Other real Collateral (*)	Real Estate	Other real Collateral (*)	Real Estate	Other real Collateral (*)
< 0.5 M€						
Number	7,509	8,674	10,699	67,843	412,381	471
Value (Euros '000)	926,993	221,851	1,531,245	1,583,305	45,077,642	24,357
>= 0.5 M€ and < 1 M€						
Number	638	57	1,314	293	2,450	5
Value (Euros '000)	432,714	36,504	915,079	205,129	1,586,158	2,876
>= 1 M€ and < 5 M€						
Number	436	56	1,055	224	372	2
Value (Euros '000)	875,232	99,842	2,081,256	425,434	561,752	2,916
>= 5 M€ and < 10 M€						
Number	68	3	118	24	4	-
Value (Euros '000)	479,873	19,280	803,674	162,992	24,124	-
>= 10 M€ and < 20 M€						
Number	32	4	59	17	-	-
Value (Euros '000)	430,715	58,495	791,756	255,092	-	-
>= 20 M€ and < 50 M€						
Number	26	-	27	3	-	-
Value (Euros '000)	757,027	-	802,373	86,423	-	-
>= 50 M€						
Number	3	-	8	2	-	-
Value (Euros '000)	176,677	-	669,380	688,193	-	-
Total						
Number	8,712	8,794	13,280	68,406	415,207	478
Value (Euros '000)	4,079,231	435,972	7,594,763	3,406,568	47,249,676	30,149

(*) Includes, namely, securities, deposits and fixed assets pledges.

As at 31 December 2019, the following table includes the LTV ratio by segments Construction and Commercial Real Estate (CRE), Companies - Other Activities and Mortgage loans:

(Thousands of euros)

Segment/Ratio	2019				
	Number of properties	Stage 1	Stage 2	Stage 3	Impairment
Construction and CRE					
Without associated collateral	n.a.	2,086,625	768,657	442,944	202,585
<60%	17,242	558,709	241,261	63,333	15,699
>=60% and <80%	3,389	675,660	97,461	26,694	10,938
>=80% and <100%	1,538	163,759	85,336	112,415	26,182
>=100%	8,068	436,551	190,209	370,532	195,285
Companies - Other Activities					
Without associated collateral	n.a.	14,681,508	2,224,191	1,597,121	1,045,994
<60%	47,980	1,374,701	447,465	233,219	80,416
>=60% and <80%	16,575	902,710	244,641	151,310	51,077
>=80% and <100%	13,894	709,089	202,621	143,773	70,388
>=100%	8,657	1,115,491	357,817	723,141	487,563
Mortgage loans					
Without associated collateral	n.a.	231,962	5,098	10,469	7,999
<60%	272,952	8,057,885	952,664	201,100	30,362
>=60% and <80%	145,013	7,210,271	1,031,242	236,650	29,324
>=80% and <100%	67,132	3,286,948	616,158	251,569	29,570
>=100%	28,216	1,343,396	219,650	375,142	115,204

As at 31 December 2018, the following table includes the LTV ratio by segments Construction and Commercial Real Estate (CRE), Companies - Other Activities and Mortgage loans:

(Thousands of euros)

Segment/Ratio	31 December 2018				
	Number of properties	Stage 1	Stage 2	Stage 3	Impairment
Construction and CRE					
Without associated collateral	n.a.	1,919,046	714,764	537,137	234,797
<60%	9,267	397,422	217,356	90,602	31,083
>=60% and <80%	4,269	490,779	82,968	109,921	23,882
>=80% and <100%	2,132	162,694	54,044	96,652	29,928
>=100%	15,197	263,815	151,302	819,524	428,196
Companies - Other Activities					
Without associated collateral	n.a.	14,681,508	2,224,191	1,597,121	1,045,994
<60%	47,980	1,374,701	447,465	233,219	80,416
>=60% and <80%	16,575	902,710	244,641	151,310	51,077
>=80% and <100%	13,894	709,089	202,621	143,773	70,388
>=100%	8,657	1,115,491	357,817	723,141	487,563
Mortgage loans					
Without associated collateral	n.a.	231,962	5,098	10,469	7,999
<60%	272,952	8,057,885	952,664	201,100	30,362
>=60% and <80%	145,013	7,210,271	1,031,242	236,650	29,324
>=80% and <100%	67,132	3,286,948	616,158	251,569	29,570
>=100%	28,216	1,343,396	219,650	375,142	115,204

As at 31 December 2019, the following table includes the fair value and the net book value of the properties classified as Non-current assets held for sale (note 26), by type of asset:

(Thousands of euros)

Asset	2019					
	Assets arising from		Assets belong to		Total	
	recovered loans results (note 26)		investments funds and real estate companies (note 26)			
	Appraised value	Book value	Appraised value	Book value	Appraised value	Book value
Land						
Urban	462,441	367,128	252,190	252,190	714,631	619,318
Rural	20,104	15,065	3,398	3,398	23,502	18,463
Buildings in development						
Commercials	1,468	767	34,176	34,176	35,644	34,943
Mortgage loans	4,000	3,043	-	-	4,000	3,043
Other	61	61	-	-	61	61
Constructed buildings						
Commercials	288,983	233,049	21,467	21,467	310,450	254,516
Mortgage loans	312,807	251,777	2,948	2,948	315,755	254,725
Other	6,827	6,502	2,659	2,659	9,486	9,161
Other assets	3,894	3,894	-	-	3,894	3,894
	1,100,585	881,286	316,838	316,838	1,417,423	1,198,124

As at 31 December 2018, the following table includes the fair value and the net book value of the properties classified as Non-current assets held for sale (note 26), by type of asset:

(Thousands of euros)

Asset	2018					
	Assets arising from		Assets belong to		Total	
	recovered loans results (note 26)		investments funds and real estate companies (note 26)			
	Appraised value	Book value	Appraised value	Book value	Appraised value	Book value
Land						
Urban	623,010	477,795	267,943	267,943	890,953	745,738
Rural	33,188	26,466	32,760	32,760	65,948	59,226
Buildings in development						
Commercials	28,401	23,348	34,754	34,754	63,155	58,102
Mortgage loans	55,406	44,107	-	-	55,406	44,107
Other	61	61	-	-	61	61
Constructed buildings						
Commercials	394,885	307,941	23,692	23,692	418,577	331,633
Mortgage loans	499,889	417,164	6,994	6,994	506,883	424,158
Other	6,123	6,050	2,851	2,851	8,974	8,901
Other assets	4,081	4,050	-	-	4,081	4,050
	1,645,044	1,306,982	368,994	368,994	2,014,038	1,675,976

Credit concentration risk

The Group's policy relating to the identification, measurement and evaluation of the concentration risk in credit risk is defined and described in the document *Credit Principles and Guidelines*, approved by the Bank's management body. This policy applies to all Group entities by the transposition of the respective definitions and requirements into the internal rulings of each entity. Through the document mentioned above, the Group defined the following guidelines relating to the control and management of credit concentration risk:

The monitoring of the concentration risk and the follow-up of major risks is made, at Group level, based on the concept of "Economic Groups" and "Customer Groups" - sets of connected Customers (individual persons or companies), which represent a single entity from a credit risk perspective, such that if one of them is affected by financial problems, one or all of the others, will probably face difficulties to fulfil their debtor obligations. The Customer connections that originate a Customer group include the formal participation on the same economic group, the evidence that a direct or indirect control relationship exists, including the control by an individual Customer (criteria of capacity of control) of a company or the existence of a strong commercial interdependency or common sources of funding that cannot be replaced on a short term (criteria of economic dependency). The identification of connected clients is an integral part of the credit granting and monitoring processes of each entity.

For the control of credit concentration risk and limit the exposure to this risk, there are limits defined for:

- 1) Exposures to Sovereigns;
- 2) Exposures to Institutions (Banks/financial institutions);
- 3) Single-name exposures (Large Corporate exposures);
- 4) Geographic concentration (country risk);
- 5) Exposure to sectors of activity.

These limits apply to the 'Net exposures' at stake(*), relating either to a counterparty or a group of counterparties – cases for 1), 2) and 3) – or to the set of exposures to an activity sector or to a country (the counterparty country of residence) – cases for 4) and 5). The measurement of geographic concentration excludes the countries in which the Group operates (Portugal, Poland and Mozambique).

Except for exposure to sectors of activity, the concentration limits are established by taking into consideration the credit worthiness of the debtors at stake in what concerns their rating grades/probability of Default (PD) (internal or external ratings; country rating in the case of geographic concentration).

The concentration limits for Corporate single-name exposures apply only to non-NPE positions, since the NPE(**) positions are covered by the NPE reduction Plan.

The limits in force as at 31 December 2019, for the exposure to Sovereigns, Institutions, Single-name and geographical (for a given Customer/Group of Customers in the second and third cases) are the following, in terms of the Net Exposure weight over the Consolidated Own Funds:

Risk quality	Limit = Max. % of Net Exposure over the Consolidated Own Funds			
	Risk grades	Sovereigns	Institutions	Countries (geog.)
1st Tier	1 - 3	25.0%	10.0%	40.0%
2nd Tier	4 - 6	10.0%	5.0%	20.0%
3rd Tier	7 - 12	7.5%	2.5%	10.0%

Risk quality	Risk grade	Single-name
High quality	1 - 5	7.0%
Average/good quality	6 - 7	4.5%
Average low/quality	8 - 9	3.0%
Low quality	10 - 11	0.7%
Restricted credit	12 - 13	0.3%

(*) Net exposure = EAD x LGD, considering LGD=45% whenever own estimates for LGD are not available or applicable. EAD = Exposure at default ; LGD = Loss given Default;

(**) NPE = Non-performing exposures

As at 31 December 2019:

- There were no exposure excesses to Sovereigns, Institutions or countries;
- There were 3 Economic Groups with net exposure above the established Single-name limits for their respective risk grade, the same number as by the end of 2018. For each client with an exposure excess a specific plan is prepared, aiming at reducing the exposure and bringing it within the established limits.

It should also be referred that the assessment of the Single-name concentration is also performed within the Group RAS (Risk Appetite Statement) scope.

In what concerns the limit for exposure to sectors of activity, in force on 31 December 2019, this is defined as a maximum of 40% per sector of activity, in terms of the weight of the Net Exposure for each sector of activity over the Own Funds of each Group Entity. As of 31 December 2019, there was no excess over this limit.

The Bank's management body and the Risk Assessment Committee are regularly informed on the evolution of the credit concentration risk metrics (against the mentioned limits) and on major risks, which are assessed by measuring the weights of the net exposure values in question in terms of the consolidated Own Funds level. For such measurements, the Risk Office uses a database on credit exposures (the Risk Office Datamart), monthly updated by the Group's systems, which also feeds a simulation tool for supporting the analysis of the impact on changes on the Customers exposures in the consumption of the respective concentration limits, used by the Credit Division within the scope of credit analysis for large clients.

Market risk

Market risks consist of the potential losses that might occur in a given portfolio as a result of changes in interest or exchange rates and/or in the prices of the different financial instruments of the portfolio, considering not only the correlations that exist between those instruments but also their volatility.

For purposes of profitability analysis and market risks quantification and control, the following management areas are defined for each entity of the Group:

- Trading - Management of positions whose objective is the achievement of short term gains, through sale or revaluation. These positions are actively managed, tradable without restriction and may be valued frequently and accurately. The positions in question include securities and derivatives of sales activities;
- Funding - Management of institutional funding (wholesale funding) and money market positions;
- Investment - Management of all the positions in securities to be held to maturity (or for a longer period of time) or positions which are not tradable on liquid markets;
- Commercial - Management of positions arising from commercial activity with Customers;
- Structural - Management of balance sheet items or operations which, due to their nature, are not directly related to any of the management areas referred to above; and
- ALM - Assets and Liabilities Management.

The definition of these areas allows for an effective management separation of the trading and banking books, as well as for the correct allocation of each operation to the most suitable management area, according to its respective context and strategy.

In order to ensure that the risk levels incurred in the different portfolios of the Group comply with the predefined levels of tolerance to risk, various market risks limits are established, at least yearly, being applicable to all portfolios of the risk management areas over which the risks are incident. These limits are monitored on a daily basis (or intra-daily, in the case of financial markets) by the Risk Office.

Stop Loss limits are also defined for the financial markets areas, based on multiples of the risk limits defined for those areas, aimed at limiting the maximum losses that might occur. When these limits are reached, a review of the strategy and of the assumptions relative to the management of the positions in question is mandatory.

Trading book market risks (Positions allocated to the Trading Management Area and not, specifically, to the accounting Trading Book)

The Group uses an integrated market risk measurement that allows for the monitoring all of the risk subtypes that are considered relevant. This measurement includes the assessment of the general risk, specific risk, non-linear risk and commodity risk. Each risk subtype is measured individually using an appropriate risk model and the integrated measurement is built from the measurements of each subtype without considering any kind of diversification between the four subtypes (worst-case scenario approach).

For the daily measurement of general market risk – including interest rate risk, exchange rate risk, equity risk and price risk of credit default swaps (indexes) – a VaR (value-at-risk) model is used, considering a time horizon of 10 business days and a significance level of 99%.

For non-linear risk, an internally-developed methodology is applied, replicating the effect that the main non-linear elements of options might have in P&L results of the different portfolios in which these are included, similarly to what is considered by the VaR methodology, using the same time horizon and significance level.

Specific and commodity risks are measured through standard methodologies defined in the applicable regulations, with an appropriate change of the time horizon considered.

The table below presents the amounts at risk for the Trading Book, between 31 December 2019 and 31 December 2018, measured by the methodologies referred to above:

(Thousands of euros)

	December 2019	Max of global risk in the period	Min of global risk in the period	December 2018
Generic Risk (VaR)	2,094	5,490	884	3,039
Interest Rate Risk	1,876	5,596	714	3,125
FX Risk	1,170	306	415	363
Equity Risk	81	32	7	34
<i>Diversification effects</i>	<i>(1,033)</i>	<i>(444)</i>	<i>(252)</i>	<i>(483)</i>
Specific Risk	3	15	10	47
Non-Linear Risk	-	-	-	-
Commodities Risk	5	2	3	5
Global Risk	2,102	5,507	897	3,091

In order to check the appropriateness of the internal VaR model to the assessment of the risks involved in the positions held, several validations are conducted over time, of different scopes and frequency, which include back testing, the estimation of the effects of diversification and the analysis of the comprehensiveness of the risk factors.

As a complement to the VaR assessment, the Group continuously tests a broad range of stress scenarios analysing the respective results with a view to identifying risk concentrations that have not been captured by the VaR model and, also, to test for other possible dimensions of loss.

Interest rate risk

The evaluation of interest rate risk derived from Banking Book operations is assessed through a process of risk sensitivity analysis, undertaken every month, covering all the operations included in the Group's consolidated Balance Sheet and discriminated by exposure currency.

Variations of market interest rates influence the Group's net interest income, both in the short term and medium/long term, affecting its economic value in a long term perspective. The main risk factors arise from the repricing mismatch of portfolio positions (repricing risk) and from the risk of variation in market interest rates (yield curve risk). Besides this, although with less impact, there is the risk of unequal variations in different reference rates with the same repricing period (basis risk).

In order to identify the exposure of the Group's banking book to these risks, the monitoring of the interest rate risk takes into consideration the financial characteristics of each of the relevant contracts, with the respective expected cash-flows (principal and interest, without the spread component but including costs for liquidity, capital, operational and other) being projected according to the repricing dates, thus calculating the impact on economic value resulting from alternative scenarios of change of market interest rate curves.

The interest rate sensitivity of the balance sheet, by currency, is calculated as the difference between the present value of the interest rate mismatch discounted at market interest rates and the discounted value of the same cash flows simulating parallel shifts of the market interest rates.

The following tables show the expected impact on the banking book economic value of parallel shifts of the yield curve by +/- 100 and +/- 200 basis points, for each of the main currencies in which the Group holds material positions:

(Thousands of euros)

Currency	2019			
	- 200 bp (*)	- 100 bp (*)	+ 100 bp	+ 200 bp
CHF	2,075	2,075	2,906	6,406
EUR	67,754	66,915	8,699	27,583
PLN	69,034	37,128	(34,785)	(67,405)
USD	(21,837)	(12,593)	12,160	23,930
	117,026	93,525	(11,020)	(9,486)

(*) Decrease in rates scenario, limited to non-negative rates (which implies effective variations of lesser amplitude than 100 bp, especially in shorter periods).

(Thousands of euros)

Currency	2,018			
	- 200 bp (*)	- 100 bp (*)	+ 100 bp	+ 200 bp
CHF	1,822	1,822	2,879	5,694
EUR	(20,095)	(24,812)	128,633	251,343
PLN	16,936	7,841	(7,100)	(13,523)
USD	(28,136)	(13,800)	13,280	26,077
	(29,473)	(28,949)	137,692	269,591

(*) Decrease in rates scenario, limited to non-negative rates (which implies effective variations of lesser amplitude than 100 bp, especially in shorter periods).

As described in accounting policy 1 B), the financial statements of the Group's subsidiaries and associates placed abroad are prepared in their functional currency and translated into Euros at the end of each financial period. The exchange rates used for the conversion of balance sheet foreign currency amounts are the ECB reference rates at the end of each period. In foreign currency conversion of results, are calculated average exchange rates according to the closing exchange rates of each month of the year. The rates used by the Group are as follows:

Currency	Closing exchange rates		Average exchange rates	
	(Balance sheet)		(Income statement)	
	2019	2018	2019	2018
AOA	541.2770	352.8610	412.0225	298.2603
BRL	4.5114	4.4377	4.3958	4.3064
CHF	1.0872	1.1267	1.1132	1.1518
MOP	9.0080	9.2211	9.0080	9.2211
MZN	70.0750	70.5000	69.9398	71.6463
PLN	4.2518	4.2966	4.2954	4.2635
USD	1.1225	1.1434	1.1201	1.1828

Foreign exchange and equity risk in the banking book

The exchange rate risk of the banking book is transferred internally to the Trading area, in accordance with the risk specialization model followed by the Group for the management of the exchange rate risk of the Balance Sheet. The exposures to exchange rate risk that are not included in this transfer – the financial holdings in subsidiaries, in foreign currency – are hedged on a case-by-case basis through market operations, taking into consideration the defined policy and the conditions and availability of instruments.

As at 31 December 2019, the Group's investments in convertible foreign currencies were fully hedged. On a consolidated basis, these hedges are identified, in accounting terms, as 'Net investment hedges', in accordance with the IFRS nomenclature. On an individual basis, hedge accounting is also carried out, in this case through a 'Fair Value Hedge' methodology.

Regarding equity risk, the Group maintains a set of positions of small size and low risk equity positions, essentially in the investment portfolio, which are not held for trading purposes. The management of these positions is carried out by a specific area of the Group, with the respective risk being controlled on a daily basis, through the indicators and limits defined for market risks' control.

As at 31 December 2019, the information of net investments, considered by the Group in total or partial hedging strategies on subsidiaries and on hedging instruments used, is as follows:

Company	Currency	2019			
		Net Investment	Hedging instruments	Net Investment	Hedging instruments
		Currency '000	Currency '000	Euros '000	Euros '000
Banque Privée BCP (Suisse) S.A.	CHF	76,493	76,493	70,355	70,355
Bank Millennium, S.A.	PLN	2,570,017	2,570,017	604,454	604,454

The information on the gains and losses in exchange rates on the loans to cover the investments in foreign institutions, accounted for as exchange differences, is presented in the statement of changes in equity. These hedging relationships were considered effective during the first semester of 2019, as referred in the accounting policy 1 C4.

The transfer to Portugal of funds, including dividends, which are owed by BCP's subsidiaries or associates in third countries, particularly outside the European Union, are, by their nature, subject to the exchange restrictions and controls that are in force at any time in the country of subsidiaries or associates. In particular, as regards Angola and Mozambique, countries in which the Group holds a minority investment in Banco Millennium Angola and a majority investment in BIM - Banco Internacional de Moçambique, being the case of, export of foreign currency requires prior authorization of the competent authorities, which depends, namely, on the availability of foreign exchange by the central bank of each country. At the date of preparation of this report, there are no outstanding amounts due to the aforementioned requirements.

Liquidity risk

The evaluation of the Group's liquidity risk is carried out using indicators defined by the supervisory authorities on a regular basis and other internal metrics for which exposure limits are also defined.

The monitoring of the liquidity position of the Group's operations in short-term time horizons (up to 3 months) is based on two internally defined indicators (immediate liquidity and quarterly liquidity). These indicators are calculated on a daily basis, taking into account the impact in the liquidity buffers available to discount with the respective central banks at the reference date of future estimated cash flows for each of the respective time horizon (3 days or 3 months) considering the set of transactions intermediated by the market areas, including in this context transactions with clients of the Corporate and Private networks, which, due to their size, must be quoted by the Trading Room. The remaining buffer in each time bucket is then compared to the amount of customer deposits, being the indicators assessed against exposure limits defined in the Bank's regulations.

In parallel, the evolution of the Group's liquidity position is calculated on a regular basis identifying all the factors that justify the variations that occur. This analysis is submitted to the Capital and Assets and Liabilities Committee (CALCO) for appraisal, in order to enable the decision making that leads to the maintenance of financing conditions adequate to the continuation of the business.

In addition, the Risk Commission is responsible for controlling the liquidity risk. This control is reinforced through the monthly execution of stress tests, to characterize the Bank's risk profile and to ensure that the Group and each of its subsidiaries fulfil its obligations in the event of a liquidity crisis. These tests are also used to support the liquidity contingency plan and management decisions.

In 2019, net wholesale financing needs decreased by Euros 2,346,095,000 in consolidated terms, attributable to a decrease of Euro 2,739,569,000 in the Portuguese operation and an increase of Euros 393,474,000 in Bank Millennium, in this case mainly as a result of the acquisition of Euro Bank SA. In Portugal, the variation was due, by decreasing order of materiality, to the reductions in the commercial gap and investments in sovereign debt, cash flow from operations, sale of other assets and reduction of the corporate securities portfolio.

From a funding structure perspective, the reduction in the liquidity needs of the operation in Portugal was carried out through decreases in the resort to net funding from the ECB (Euros 2,368,613,000, to Euros 283,385,000) and money market instruments (Euros 1,249,982,000, split between interbank market and repos, in this case to a zero balance) against a reinforcement totaling Euros 850,000,000 of its medium-term component eligible for MREL, already foreseen in the Group Liquidity Plan for 2019. Thus, in January BCP placed an issue of Additional Tier 1 worth Euros 400,000,000 and returned to the market in September with a new issue of Euros 450,000,000 of subordinated debt securities eligible as Tier 2, with the operation placed on a very diverse set of European institutional investors. Bank Millennium, in turn, issued PLN 830,000,000 subordinated bonds to strengthen its financial structure in view of the acquisition of Euro Bank, also assuming long-term liabilities originating in that entity in the amount of PLN 878,000,000. The overall amount of debt placed on the market by the Group amounts to Euro Euros 2,590,681,000 at the end of 2019. The medium-long-term funding component was further strengthened by an increase of Euros 131,407,000 of the balance of loan agreements, to Euros 1,886,747,000, split between Bank Millennium (Euros 89,895,000) and BCP (Euros 41,512,000).

The value of collateralized borrowings with the ECB remained at Euros 4,000,000,000 euros, corresponding to the balance of targeted longer-term refinancing operations, called TLTRO, which will mature in 2020. Net debt with the ECB, which deducts from the value of the gross borrowings the liquidity deposited with the Bank of Portugal euros in excess of the minimum cash reserves, other liquidity denominated in euros and accrued interest to be received, reached the lowest value since the Bank borrows from the central bank at Euros 283,385,000, a reduction of Euros 2,368,613,000 over the previous year.

The evolution of the central bank's liquidity buffers held by the three main operations of the Group showed a favorable evolution throughout 2019, assuming in any case a very comfortable dimension in relation to total of customer deposits, an indicator internally used by the Group to assess the resilience of the liquidity buffer to a scenario of financial stress.

In Portugal, the joint evolution of liquidity held at the central bank and the portfolio of eligible assets with the ECB has substantially increased the Eurosystem's liquidity buffer by Euros 2,516,214,000, to Euros 16,776,747,000.

Although Bank Millennium's liquidity buffer with the Central Bank of Poland was reduced by Euros 1,169,465,000 at the end of May, to pay for the acquisition of Euro Bank SA, the balance at the end of 2019 was similar to that observed one year earlier (Euros 5,088,019,000).

Throughout 2019, BIM maintained a strong liquidity position, with the central bank buffer increasing at year end by Euros 79,058,000 vs. 2018, to a total of Euros 800,306,000.

On a consolidated basis and considering the implementation of the 2020 Liquidity Plan issuance plan, future refinancing needs will remain at low materiality levels over the next five years, exceeding Euros 1,000,000,000 just once, in 2022. Even in this case, it will involve the repayment of a Euros 1,000,000,000 issuance which pledged collateral will be free for discount with the ECB at maturity, thus meaning a minor loss of liquidity.

The pool of eligible assets for funding operations in the European Central Bank and other central banks, after haircuts, is detailed as follows:

	(Thousands of euros)	
	2019	2018
European Central Bank	7,328,153	7,248,348
Other Central Banks	5,888,324	5,608,093
	13,216,477	12,856,441

As at 31 December 2019, the amount discounted with the European Central Bank amounts to Euros 4,000,000,000 (31 December 2018: Euros 4,000,000,000). On 31 December 2019 the amount discounted from the Bank of Mozambique was Euros 2,426,000 (Euros 1,275,000 as of 31 December 2018). There were no discounted amounts with other central banks. The amount of assets eligible for discount with the European Central Bank includes securities issued by the SPE from securitization operations whose assets have not been derecognised in the Group's consolidated view, so that the securities are not recognized in the securities portfolio.

The evolution of the ECB's Monetary Policy Pool, the net borrows at the ECB and liquidity buffer is analysed as follows:

	(Thousands of euros)	
	2019	2018
Collateral eligible for ECB, after haircuts:		
The pool of ECB monetary policy (i)	7,328,153	7,248,348
Outside the pool of ECB monetary policy	9,731,980	9,664,184
	17,060,133	16,912,532
Net borrowing at the ECB (ii)	283,385	2,651,998
Liquidity buffer (iii)	16,776,748	14,260,534

i) Corresponds to the amount reported in COLMS (Bank of Portugal application).

ii) Includes, as at 31 December 2019, the value of funding with ECB net of interest associated with negative financing rate applied to TLTRO (Euros 56,428,000) of deposits with the Bank of Portugal and other liquidity of the Eurosystem (Euros 4,039,694,000), plus the minimum cash reserves (Euros 379,507,000).

iii) Collateral eligible for ECB, after haircuts, less net financing at the ECB.

Loans to deposits ratio

The BCP Group structurally improved its liquidity profile by recording as at 31 December 2019 a credit transformation ratio on deposits calculated in accordance with Bank of Portugal Instruction No. 16/2004 (current version) of 86% and as at 31 December 2018 this ratio was set at 87% (according to the current version of the Instruction as at 31 December 2019).

Liquidity coverage ratio

The Basel Committee published the definition of the Liquidity Coverage Ratio (LCR) in 2014, and the Delegated Act by the European Commission was adopted in early October 2015, which introduced, in relation to CRD IV / CRR, new metrics and calculation criteria implemented in the European Union. The adoption of the new framework defines a minimum requirement of 100% from 1 January 2018. The LCR ratio of the BCP Group comfortably stood above the regulatory limit indicating 216% at the end of December 2019 (31 December 2018: 218%), supported by highly liquid asset portfolios of value compatible with prudent management of the Group's short-term liquidity.

Net stable funding ratio

The definition of the Net Stable Funding Ratio (NSFR) was approved by the Basel Committee in October 2014. The Group has a stable financing base, obtained by the high weight of customer deposits in the funding structure, collateralised financing, medium and long-term instruments and a strengthened regulatory capital structure, that allow to adequately support the stable financing requirements of the medium and long-term business model, including tangible and intangible assets, customers loans and the securities portfolio that partly serves the purpose of maintaining a highly liquid assets buffer to cover liquidity outflows in adverse situations. The NSFR stood at 135 % as at 31 December 2019 (which compares to 133% by 31 December 2018).

Encumbered and Unencumbered assets

Within the scope of the European Banking Authority's guidance on the disclosure of encumbered assets and unencumbered assets, taking into account the recommendation made by the European Systemic Risk Committee, the following information is presented in accordance with Commission Delegated Regulation (EU) 2017/2295 of 4 September 2017 supplementing Regulation (EU) No 575/2013 of the European Parliament and of the Council with regard to regulatory technical standards for disclosure of encumbered and unencumbered assets.

(Thousands of euros)

	2019 ⁽¹⁾							
	Carrying amount of encumbered assets		Fair value of encumbered assets		Carrying amount of unencumbered assets		Fair value of unencumbered assets	
		of which notionally eligible EHQLA and HQLA ⁽²⁾		of which notionally eligible EHQLA and HQLA ⁽²⁾		of which EHQLA and HQLA ⁽²⁾		of which EHQLA and HQLA ⁽²⁾
Assets of the reporting institution	10,459,171	1,043,266	n/a	n/a	70,539,049	16,449,753	n/a	n/a
Equity instruments	-	-	n/a	n/a	86,033	-	n/a	n/a
Debt securities	1,137,566	1,043,266	1,136,379	1,042,273	17,762,092	12,773,551	17,764,516	12,774,818
of which:								
issued by general governments	765,468	666,166	765,468	666,166	12,312,751	11,902,959	12,319,695	11,905,154
issued by financial corporations	32,938	32,938	32,938	32,938	1,975,150	23,492	1,970,819	23,492
issued by non-financial corporations	336,757	336,757	336,064	336,064	2,726,570	496,101	2,726,817	495,520
Other assets of which:	9,321,605	-	n/a	n/a	52,690,924	3,676,202	n/a	n/a
Loans on demand	-	-	n/a	n/a	3,430,440	3,130,931	n/a	n/a
Loans and advances								
other than loans on demand	9,061,854	-	n/a	n/a	41,740,048	-	n/a	n/a
Other	259,751	-	n/a	n/a	7,520,436	545,271	n/a	n/a

(1) Table's figures are calculated by the median of the values disclosed in the regulatory information for the 4 quarters of the year.

(2) Disclosure of encumbered and unencumbered assets EHQLA and HQLA is presented in accordance with the liquidity criterion defined in Commission Delegated Regulation (EU) 2015/61, which differs from regulatory reporting by pointing to an operational criterion - central bank eligibility.

(Thousands of euros)

	2019 ⁽¹⁾			
	Fair value of encumbered collateral received or own debt securities issued		Unencumbered Fair value of collateral received or own debt securities issued available for encumbrance	
		of which notionally eligible EHQLA and HQLA ⁽²⁾		of which EHQLA and HQLA ⁽²⁾
Collateral received by the reporting institution	-	-	32,476	32,476
Debt securities	-	-	32,476	32,476
of which:				
issued by general governments	-	-	32,476	32,476
Own covered bonds and asset-backed securities issued and not yet pledged	n/a	n/a	3,616,373	3,616,373
Total assets, Collateral Received and Own Debt Securities Issued	10,459,171	1,043,266	n/a	n/a

(1) Table's figures are calculated by the median of the values disclosed in the regulatory information for the 4 quarters of the year.

(2) Disclosure of encumbered and unencumbered assets EHQLA and HQLA is presented in accordance with the liquidity criterion defined in Commission Delegated Regulation (EU) 2015/61, which differs from regulatory reporting by pointing to an operational criterion - central bank eligibility.

(Thousands of euros)

Sources of encumbrance	2019 ⁽¹⁾	
	Matching liabilities, contingent liabilities or securities lent	Assets, collateral received and own debt securities issued other than covered bonds and ABSs encumbered
Carrying amount of selected financial liabilities	6,768,487	10,056,710

(1) Table's figures are calculated by the median of the values disclosed in the regulatory information for the 4 quarters of the year.

At the end of 2019, and according to the EBA methodology, the total encumbered assets represents 12% of the Group's total balance sheet assets. The encumbered Loans to customers represent 81%, while Debt securities represents 12%.

The encumbered assets are mostly related with the Group's funding operations - namely with the ECB and via REPO operations - through the issuance of mortgage bonds and securitisation programs. The type of assets used as collateral for these financing transactions are different Loans to Customers' portfolios, supporting securitisation programs and mortgage bonds issues, either placed outside of the Group or intended to reinforce the collateral pool with the ECB and to collateralise REPO operations from the money markets. Another part of the collateralisation of operations of the latter type, as well as financing from the European Investment Bank, is obtained through sovereign debt eligible for central banks, together with bonds issued by public sector companies.

On 31 December 2019, the Other assets: Other, in the amount of Euros 7,520,436,000, although not encumbered, are mostly related to the Group's activity, namely, to: investments in associated companies and subsidiaries, tangible assets and investment properties, intangible assets, assets associated with derivatives and current and deferred taxes.

On 31 December 2019, the Group has an Euros 12.5 billion BCP Covered Bond Programme ("BCP Programme") with Euros 8.2 billion of covered bonds outstanding. The BCP Programme is backed by a Euros 11.7 billion portfolio of residential mortgages, providing an overcollateralization ("OC") of 42.3% that is above the minimum of 14% currently required by rating agencies. The former BII covered bond programme finished on 28 March 2019.

The Portuguese covered bond legislation ensures covered bond holders the benefit of dual-recourse over the issuer, together with a special preferential claim over the respectively assigned residential mortgage portfolios, with precedence over any other creditors, covered bond law superseding the general bankruptcy regulation. Residential mortgages in a cover pool are subject to certain eligibility criteria inscribed in the Portuguese covered bond legislation, which include a maximum LTV of 80%, delinquency of no more than 90 days and first lien mortgages (or, if otherwise, all preceding liens being included in the cover pool) over properties located in the EU. Both the BCP Programme and the BII Programme documentation limit property location to Portugal.

The analysis of the balance sheet items by maturity dates is as follows:

(Thousands of euros)

	2019						Total
	At sight	Up to 3 months	3 months to 1 year	1 year to 5 years	Over 5 years	Undetermined maturity	
Assets							
Cash and deposits at Central Banks	5,166,551	-	-	-	-	-	5,166,551
Loans and advances to CI							
Repayable on demand	320,857	-	-	-	-	-	320,857
Other loans and advances (a)	-	875,286	8,077	10,000	-	-	893,363
Loans and advances to customers (a)	-	-	8,954,416	10,395,257	31,329,587	1,585,591	52,264,851
Other financial assets (b)	-	1,285,847	1,727,517	8,506,399	3,284,829	727,452	15,532,044
	5,487,408	2,161,133	10,690,010	18,911,656	34,614,416	2,313,043	74,177,666
Liabilities							
Resources from CI	-	836,401	4,163,310	1,062,395	304,852	-	6,366,958
Resources from costumers	37,083,367	11,734,834	9,693,643	554,915	60,246	-	59,127,005
Debt securities issued	-	23,213	153,995	1,232,885	184,631	-	1,594,724
Subordinated debt	-	52,722	103,604	299,322	1,100,023	22,035	1,577,706
	37,083,367	12,647,170	14,114,552	3,149,517	1,649,752	22,035	68,666,393

(a) Gross of impairment

(b) Financial assets at fair value through profit or loss and Financial assets at fair value through other comprehensive income.

Operational Risk

The operational risk management system adopts the “3 Lines of Defence” model and is based on an integrated structure of end-to-end processes, considering that a vision which is transversal to the functional units of the organisational structure is the most suitable approach for the perception of risks and to estimate the effects of the corrective measures introduced for their mitigation. Furthermore, these processes model also underlies other strategic initiatives related to the management of this risk such as the actions to improve operating efficiency and the management of business continuity. Hence, the most relevant Group subsidiaries have their own processes structure, which is periodically adjusted according to business evolution, in order to ensure suitable coverage of the business activities (or business support activities) developed, ensuring thus, the replication of the 3 Lines of Defence model in the management of operational risk.

The responsibility for the day-to-day processes’ management lies with the 1st Line of Defence: the process owners (seconded by process managers), whose mission is to characterise the operational losses captured under their processes, to monitor the respective Key Risk Indicators (KRI), to perform the Risks Self-Assessment (RSA) exercises, as well as to identify and implement suitable actions to mitigate operational risk exposures, thus contributing to the strengthening of control mechanisms and the improvement of the internal control environment. The periodic revision of the main processes in each geography is ensured by local structure units.

The risk management system (SGR) – role of Risk Management (Risk Office) and Compliance (Compliance Office) – represents the 2nd Line of Defence and is responsible for implementing the risk policy defined for the Group, proposing and developing approaches for managing this risk, supervising their implementation and challenging the 1st Line of Defence regarding the risk levels incurred.

In 2019, the usual operational risk management activities continued to be carried out by the various players involved in the management of this risk, aiming at an efficient and systematic identification, evaluation, mitigation and control of exposures, as well as at the appropriate reporting tasks, either to the Group’s management bodies or within regulatory duties. The results of the RSA exercises evidence a robust control environment, demonstrating the Group’s commitment to operational risk management through the continuous development of improvement actions that help mitigate exposures to this risk. Regarding the operational losses registered, it should be highlighted that their pattern was not different from what is usual and expected, with a higher frequency of losses of low amounts, without concentration in significant amounts. It should also be noted that the average ratio between gross losses and the relevant indicator for TSA (gross income) has consistently presented values below 1%, which compares very favourably with international benchmarking and attests the robustness of the operational control environment of the Group. The monitoring of KRI has allowed to identify opportunities for improvement that, together with the RSA exercises and the process of identification and registration of losses, provide for an effective management of this risk.

The Bank’s mobilization to reinvent the banking experience, based on the digitization and use of new technologies, entails relevant challenges in the management of operational risk, which include the reinforcement of the security of digital banking channels, the reinforcement of mechanisms for the prevention and detection of potential fraud, proper management of personal data and compliance with the information duties legally provided for in sales through digital banking channels. In order to strengthen mechanisms for more efficient control of operational risk, several initiatives were launched, of which we highlight:

- Integrated assessment of operational risks and conduct risks in the analysis and approval of new products and services;
- The strengthening of the monitoring of the risk of conflicts of interest and the evaluation and monitoring of service provision contracts under an outsourcing regime considered critical;
- Conducting a new IT Risk self-assessment exercise;
- Redesign of the operational risk self-assessment methodology, to include aspects and quantitative indicators monitored by internal controls on compliance and conduct risks;
- Reinforcement of the weight of operational risk indicators in the RAS metrics, namely in the monitoring of digital channels;
- Improvement of the rules for validating the quality of regulatory reports related to Operational Risk.

Covenants

The contractual terms of instruments of wholesale funding encompass obligations assumed by entities belonging to the Group as debtors or issuers, concerning general duties of societary conduct, maintenance of banking activity and the inexistence of special guarantees constituted for the benefit of other creditors (“negative pledge”). These terms reflect essentially the standards internationally adopted for each type of instrument.

The terms of the Group’s participation in securitization operations involving its own assets are subject to mandatory changes in case the Group stops respecting certain rating criteria. The criteria established in each transaction results mainly from the existing risk analysis at the moment that the transaction was set, being these methodologies usually applied by each rating agency in a standardised way to all the securitization transactions involving the same type of assets.

Regarding the Covered Bond Programs of Banco Comercial Português, there are no relevant covenants related to a possible downgrade of BCP.

Hedge accounting

As at 31 December 2019, the table below includes the detail of the hedging instruments used in the Group's hedging strategies and accounted at the Balance sheet item - Hedging derivatives:

(Thousands of euros)

Type of hedging	2019			
	Hedging instruments			Change in fair value (A)
	Notional	Book value		
		Assets	Liabilities	
Fair value hedge				
Interest rate risk				
Interest rate swaps	4,536,385	17,131	46,122	(106,219)
	4,536,385	17,131	46,122	(106,219)
Cash flows hedging				
Foreign exchange risk				
Currency swap	83,090	185	172	48
Currency and interest rate swap	3,005,625	8,853	98,300	4,019
Interest rate risk				
Interest rate swaps	11,883,933	18,972	77,272	(123,578)
	14,972,648	28,010	175,744	(119,511)
Hedging of net investments in foreign entities				
Foreign exchange risk				
Currency and interest rate swap	598,795	-	8,057	(6,303)
	598,795	-	8,057	(6,303)
Total	20,107,828	45,141	229,923	(232,033)

(A) Changes in fair value used to calculate the ineffectiveness of the hedge

As at 31 December 2018, the table below includes the detail of the hedging instruments used in the Group's hedging strategies and accounted at the Balance sheet item - Hedging derivatives:

(Thousands of euros)				
Type of hedging	2018			
	Notional	Hedging instruments		Change in fair value (A)
		Assets	Liabilities	
Fair value hedge				
Interest rate risk				
Interest rate swaps	4,001,174	12,662	77,787	(32,377)
	4,001,174	12,662	77,787	(32,377)
Cash flows hedging				
Foreign exchange risk				
Currency and interest rate swap	3,516,676	28,051	87,700	5,068
Interest rate risk				
Interest rate swaps	12,725,086	81,677	7,604	107,337
	16,241,762	109,728	95,304	112,405
Hedging of net investments in foreign entities				
Foreign exchange risk				
Currency and interest rate swap	596,165	664	4,809	17,333
	596,165	664	4,809	17,333
Total	20,839,101	123,054	177,900	97,361

(A) Changes in fair value used to calculate the ineffectiveness of the hedge

As at 31 December 2019, the table below includes the detail of the hedged items:

(Thousands of euros)

Type of hedging	2019							
	Hedged items						Cash flow hedge reserve / Currency translation reserve	
	Balance sheet item	Book value		Cumulative value of the adjustments		Change in fair value (A)	Hedging relationships in effect	Hedging relationships discontinued
		Assets	Liabilities	Assets	Liabilities			
Fair value hedge								
Interest rate risk								
Interest rate swaps	(B)	449,137	-	5,102	-	623	n.a.	n.a.
	(H)	89,953	-	856	-	856	n.a.	n.a.
	(C)	2,217,744	-	(26,417)	-	105,005	n.a.	n.a.
	(D)	-	260,000	-	9,950	1,470	n.a.	n.a.
	(E)	-	180,650	-	5,149	(6,407)	n.a.	n.a.
	(F)	-	2,554	-	54	(43)	n.a.	n.a.
	(G)	-	441,389	-	(6,974)	6,974	n.a.	n.a.
		2,756,834	884,593	(20,459)	8,179	108,478	n.a.	n.a.
Cash flows hedging								
Foreign exchange risk								
Currency and interest rate swap	(B)	3,181,707	-	-	-	(4,067)	(10,302)	(2,598)
Interest rate risk								
Interest rate swaps	(B)	11,883,933	-	-	-	123,592	(60,371)	217,308
		15,065,640	-	-	-	119,525	(70,673)	214,710
Hedging of net investments in foreign entities								
Foreign exchange risk								
- Bank Millennium, S.A.		n.a.	n.a.	n.a.	n.a.	6,303	(6,303)	-
Total		17,822,474	884,593	(20,459)	8,179	234,306	(76,976)	214,710

(A) Fair value changes used to calculate the ineffectiveness of the hedge

(B) Financial assets at amortised cost - Loans and advances to customers

(C) Financial assets at fair value through other comprehensive income

(D) Financial liabilities at amortised cost - Resources from credit institutions

(E) Financial liabilities at amortised cost - Resources from customers

(F) Financial liabilities at amortised cost - Non subordinated debt securities issued

(G) Financial liabilities at amortised cost - Subordinated debt

(H) Debt securities held not associated with credit operations

As at 31 December 2018, the table below includes the detail of the hedged items:

(Thousands of euros)

	2018							
	Hedged items						Cash flow hedge reserve / Currency translation reserve	
	Balance sheet item	Book value		Cumulative value of the adjustments		Change in fair value (A)	Hedging relationships in effect	Hedging relationships discontinued
Type of hedging		Assets	Liabilities	Assets	Liabilities			
Fair value hedge								
Interest rate risk								
Interest rate swaps	(B)	462,400	-	5,306	-	444	n.a.	n.a.
	(C)	3,484,435	-	(65,176)	-	37,021	n.a.	n.a.
	(D)	-	260,000	-	2,797	(3,796)	n.a.	n.a.
	(E)	-	180,650	-	7,417	1,679	n.a.	n.a.
	(F)	-	2,517	-	11	20	n.a.	n.a.
	(G)	-	7,685	-	137	196	n.a.	n.a.
		3,946,835	450,852	(59,870)	10,362	35,564	n.a.	n.a.
Cash flows hedging								
Foreign exchange risk								
Currency and interest rate swap	(B)	3,577,938	-	-	-	(5,068)	(9,074)	(7,051)
Interest rate risk								
Interest rate swaps	(B)	12,214,683	-	-	-	(107,337)	63,219	50,648
		15,792,621	-	-	-	(112,405)	54,145	43,597
Hedging of net investments in foreign entities								
Foreign exchange risk								
Bank Millennium, S.A.		n.a.	n.a.	n.a.	n.a.	(17,333)	17,333	n.a.
Total		19,739,456	450,852	(59,870)	10,362	(94,174)	71,478	43,597

(A) Changes in fair value used to calculate the ineffectiveness of the hedge

(B) Financial assets at amortised cost - Loans and advances to customers

(C) Financial assets at fair value through other comprehensive income

(D) Financial liabilities at amortised cost - Resources from credit institutions

(E) Financial liabilities at amortised cost - Resources from customers

(F) Financial liabilities at amortised cost - Non subordinated debt securities issued

(G) Financial liabilities at amortised cost - Subordinated debt

The reconciliation of each equity component and an analysis of other comprehensive income attributable to hedge accounting, with reference to 31 December 2019 and 2018, is as follows:

(Thousands of euros)

	Cash flow hedge reserve		Exchange differences	
	2019	2018	2019	2018
Balance as at 1 January	(16,126)	(26,514)	21,783	4,450
Amounts recognised in other comprehensive income:				
Hedging cash flows - foreign exchange risk				
Changes in fair value of currency swaps	4,067	4,951	-	-
Foreign exchange changes	(170)	746	-	-
Ineffectiveness of coverage recognised in results	4,514	4,691	-	-
Others	1,130	-	-	-
Hedging of net investments - foreign exchange risk				
Reclassified to the income statement	-	-	(6,303)	17,333
Balance at the end of the year	(6,585)	(16,126)	15,480	21,783

The table below includes information on the effectiveness of hedging relationships, as well as impacts on results and other comprehensive income, with reference to 31 December 2019:

(Thousands of euros)

Type of hedging	2019					
	Income statement item (A)	Gains / (losses) recognised in Other comprehensive income	Hedging ineffectiveness recognised in Income statement (A)	Amounts reclassified from reserves to results for the following reasons:		
				Income statement item (B)	Cash flows that were being hedged (C)	Hedged item with an impact on results
Fair value hedge						
Interest rate risk						
Interest rate swaps	(D)	n.a.	2,259		n.a.	n.a.
		n.a.	2,259		n.a.	n.a.
Cash flows hedging						
Foreign exchange risk						
Currency and interest rate swap	(D)	6,020	(4,514)		-	-
Interest rate risk						
Interest rate swaps	(D)	(62)	(129)	(E)	44,882	-
		5,958	(4,643)		44,882	-
Hedging of net investments in foreign entities						
Foreign exchange risk						
Currency and interest rate swap	(F)	(6,303)	-		-	-
		(6,303)	-		-	-
Total		(345)	(2,384)		44,882	-

The table below includes information on the effectiveness of hedging relationships, as well as impacts on results and other comprehensive income, with reference to 31 December 2018:

(Thousands of euros)

Type of hedging	2018					
	Income statement item (A)	Gains / (losses) recognised in Other comprehensive income	Hedging ineffectiveness recognised in Income statement (A)	Amounts reclassified from reserves to results for the following reasons:		
				Income statement item (B)	Cash flows that were being hedged (C)	Hedged item with an impact on results
Fair value hedge						
Interest rate risk						
Interest rate swaps	(D)	n.a.	3,187		n.a.	n.a.
		n.a.	3,187		n.a.	n.a.
Cash flows hedging						
Foreign exchange risk						
Currency and interest rate swap	(D)	5,068	(4,636)		-	-
Interest rate risk						
Interest rate swaps	(D)	43	-	(E)	23,004	-
		5,111	(4,636)		23,004	-
Hedging of net investments in foreign entities						
Foreign exchange risk						
Currency and interest rate swap	(F)	17,333	-	-	-	-
		17,333	-		-	-
Total		22,444	(1,449)		23,004	-

(A) Income Statement item in which the ineffectiveness of the hedge was recognised

(B) Income Statement item in which the reclassified amount was recognised

(C) but which are no longer expected to occur

(D) Net gains / (losses) from hedge accounting operations

(E) Interest income

(F) Net gains / (losses) from foreign exchange

The table below shows the detail of hedging instruments, as at 31 December 2019, by maturity:

(Thousands of euros)

Type of hedging	2019				Fair value	
	Remaining period			Total	Assets	Liabilities
	Up to 3 months	3 months to 1 year	Over 1 year			
Fair value hedging derivatives related to interest rate risk changes:						
OTC Market:						
Interest rate swaps						
Notional	52,919	1,420,269	3,063,197	4,536,385	17,131	46,122
Fixed interest rate (average)	1.98%	-0.05%	1.19%	0.81%		
Cash flow hedging derivatives related to interest rate risk changes:						
OTC Market:						
Interest rate swaps	65,854	111,717	11,706,362	11,883,933	18,972	77,272
Cash flow hedging derivatives related to currency risk changes:						
OTC Market:						
Currency swap	83,090	-	-	83,090	185	172
Currency and interest rate swap	469,804	930,004	1,605,817	3,005,625	8,853	98,300
Hedging derivatives related to net investment in foreign operations:						
OTC Market:						
Currency and interest rate swap	-	462,072	136,723	598,795	-	8,057
Total derivatives traded by						
OTC Market:	671,667	2,924,062	16,512,099	20,107,828	45,141	229,923

The table below shows the detail of hedging instruments, as at 31 December 2018, by maturity:

(Thousands of euros)

Type of hedging	2018					
	Remaining period			Fair value		
	Up to 3 months	3 months to 1 year	Over 1 year	Total	Assets	Liabilities
Fair value hedging derivatives related to interest rate risk changes:						
OTC Market:						
Interest rate swaps						
Notional	-	24,500	3,976,674	4,001,174	12,662	77,787
Fixed interest rate (average)		3.44%	1.05%	1.07%		
Cash flow hedging derivatives related to interest rate risk changes:						
OTC Market:						
Interest rate swaps	52,367	205,511	12,467,208	12,725,086	81,677	7,604
Cash flow hedging derivatives related to currency risk changes:						
OTC Market:						
Foreign exchange rate and interest rate swap	336,794	570,475	2,609,407	3,516,676	28,051	87,700
Hedging derivatives related to net investment in foreign operations:						
OTC Market:						
Currency and interest rate swap	58,059	76,034	462,072	596,165	664	4,809
Total derivatives traded by						
OTC Market:	447,220	876,520	19,515,361	20,839,101	123,054	177,900