# OP Amalgamation Capital Adequacy Report 2018



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Annex 1. Main features of capital instruments

#### Introduction

This report discloses information on the capital adequacy of the consolidated group of the amalgamation of member cooperative banks, as specified in Part 8 of the Capital Requirements Regulation of the European Parliament and of the Council No. 575/2013 (CRR) (Pillar III disclosures) in compliance with the guidelines issued by the European Banking Authority (EBA/GL)/2016/11). Given that this information is based on the consolidated capital adequacy on the amalgamation of member cooperative banks, it is not directly comparable with information disclosed on OP Financial Group. The Report is unaudited.

The amalgamation of cooperative banks consists of the amalgamation's central cooperative (OP Cooperative), the central cooperative's member credit institutions and the companies belonging to their consolidation groups. Although OP Financial Group's insurance companies do not belong to the amalgamation of the cooperative banks, investments made in them have a major impact on capital adequacy calculated in accordance with the capital adequacy regulations for credit institutions. More detailed information on companies within the consolidation group can be found in point 5.3 (LI3) and in Financial Statement's Notes 22 and 47.

OP Financial Group's risk management practices and goals can be found in the 2018 Financial Statements Notes 2 and 53. OP Financial Group's Corporate Governance and steering systems are available on websites covering respective issues (op.fi > OP Financial Group > About us > Corporate Governance) and in OP Financial Group's Corporate Governance Statement.

A description of the remuneration schemes and practices can be found in the 2018 Financial Statements Notes 49 and 50, OP Financial Group's website dealing with remuneration (op.fi > OP Financial Group > About us > Corporate governance > Remuneration) and in the Corporate Governance Statement.

OP Financial Group received IRBA permission in stages between 2008–2011. OP Financial Group has applied the Internal Ratings Based Approach (IRBA) to retail, credit institution and corporate exposures and equity investments. The Standardised Approach (SA) is used for other exposure categories. The Standardised Approach is used for OP Card Company's exposures. OP Card Company aims to adopt IRBA for its exposures.

## 1 Capital base and capital adequacy

#### 1.1 Capital base

EUR million	31 Dec. 2018	31 Dec. 2017
OP Financial Group's equity capital	11 835	11 121
The effect of insurance companies on the Group's shareholders' equity is excluded	189	92
Fair value reserve, cash flow hedge	-33	-16
Common Equity Tier 1 (CET1) before deductions	11 991	11 197
Intangible assets	-710	-717
Excess funding of pension liability and valuation adjustments	-76	-31
Cooperative capital deducted from own funds	-147	-148
Expected profit distribution	-94	-90
Shortfall of ECL minus expected losses	-288	-320
Common Equity Tier 1 (CET1)	10 677	9 891
Hybrid capital to which transitional provision is applied	80	81
Additional Tier 1 capital (AT1)	80	81
Tier 1 capital (T1)	10 757	9 973
Debenture loans	995	1 121
Tier 2 capital (T2)	995	1 121
Total capital base	11 752	11 093

The table presents how OP Amalgamation's CET1 capital derives from OP Financial Group's equity capital. CET1 capital increased by EUR 786 million during the financial year. CET1 capital was increased by Banking performance, dividends from the Group's insurance institutions, transfer of pension liabilities to Ilmarinen and Profit Share issues. The amount of Profit Shares in CET1 capital was EUR 2,910 million (2,760). The amount of debenture loans included in Tier 2 capital (T2) decreased as the loans were transferred to the maturity of less than 5 years, in which case they are not included in the capital base in full.

EUR 27 (20) million of prudent valuation adjustment has been deducted from CET1 capital. OP Financial Group has applied transitional provisions regarding old capital instruments to subordinated loans.

# 1.2 Overview of RWAs (EU-OV1)

	RV	VAs	Minimum capital require ments
UR million	31 Dec. 2018	30 Sept. 2018	31 Dec. 2018
1 Credit risk (excluding CCR)	40 833	40 218	3 267
2 Of which the standardised approach	4 798	4 532	384
3 Of which the foundation IRB (FIRB) approach	24 100	23 670	1 928
4 Of which the advanced IRB (AIRB) approach	5 276	5 173	422
5 Of which equity IRB under the simple risk-weighted approach	205	390	16
5a Of which equity investments under PD/LGD method	6 454	6 453	516
6 CCR	638	674	51
7 Of which mark to market	463	447	37
12 Of which CVA	175	227	14
13 Settlement risk	0	0	0
14 Securitisation exposures in the banking book (after the cap)	46	41	4
15 Of which IRB approach	46	41	4
19 Market risk	1 319	1 393	106
20 Of which the standardised approach	1 319	1 393	106
23 Operational risk	4 136	4 136	331
25 Of which standardised approach	4 136	4 136	331
27 Amounts below the thresholds for deduction (subject to 250% risk weight)	261	312	21
29 Total	47 233	46 773	3 779
30 Risk weight floors based on ECB's decision	4 893	4 915	391
31 Total risk exposure amount including risk weight floors	52 126	51 688	4 170

During the quarter, total risk exposure increased by 1.0%.

Risk weight floors based on the ECB's decision apply to corporate exposures of retail exposures other than SME corporate exposures. In these, floors set for the average risk weight are 15.4% for exposures secured by mortgages and 32.7% for other than exposures secured by mortgages. Point 2.16 presents average risk weights based in internal exposure models which the risk-weight floor does not affect.

#### 1.3 Minimum capital requirement

OP Financial Group has used the Foundation Internal Ratings Based Approach (FIRB) to measure capital requirement for corporate and credit institution exposures. This approach uses internal credit ratings to determine a customer's probability of default (PD), whereas loss given default (LGD) and credit conversion factor (CCF) are regulatory standard estimates. The Group has used the Internal Ratings Based Approach (IRBA) to measure capital requirement for retail exposures. This approach uses internal credit ratings to determine a customer's PD. Also LGD and CF are estimated internally.

It is possible to use various methods to measure capital adequacy requirement for equity investments. In the PD/LGD method, investments' risk-weighted exposure is calculated using PD, based on internal credit rating, and a regulatory standard LGD. According to the Simple Risk Weight Approach, investments' risk-weighted exposure amount derives from multiplying each investment by the risk-weight determined by the type of investment.

OP Financial Group has used the Standardised Approach to measure capital requirement for operational risks and market risks.

	31 Dec	. 2018	31 Dec. 2017		
	Capital	Risk weighted	Capital	Risk weighted	
EUR million	requirement*	assets	requirement*	assets	
Credit and counterparty credit risk	3 328	41 602	3 151		
Standardised Approach	310	3 878	309	3 859	
Exposures to central government and central banks	21	261		10	
Exposures to regional government or local authorities			1	18	
Exposures to public sector entities	3	33			
Exposures to multilateral development banks	0	0			
Exposures to institutions	1	7	1		
Exposures to corporates	203	2 533	176		
Retail exposures	77	961	85		
Exposures secured by mortgages on immovable property	2	29	18		
Exposures in default	2	19	2	28	
Exposures in the form of units or shares in collective investment undertakings (CIU)	0	0			
Equity exposures	1	12			
Other items	2	24	26	324	
Internal Ratings-based Approach (IRB)	3 018	37 724	2 842	35 525	
Exposures to institutions	87	1 083	84	1 054	
Exposures to corporates	1 878	23 474	1 715	21 438	
Retail exposures	422	5 276	397	4 959	
Exposures secured by mortgages on immovable property	264	3 302	251	3 140	
Other retail exposures	158	1 974	146	1 819	
Equity investments	533	6 659	560	7 002	
PD/LGD method	516	6 454	517	6 461	
Simple Risk Weight Approach	16	205	43	541	
Private equity investments	12	152	6	74	
Listed investments			1	13	
Other	4	52	36	454	
Securitisation exposures	4	46	3	42	
Other non-credit obligations	95	1 188	82	1 030	
Clearing/settlement risk	0	0	0	1	
Market risk (Standardised Approach)	106	1 319	94	1 178	
Position risk	105	1 309	93	1 159	
Commodity risk	1	11	2	19	
Operational risk	331	4 136	317		
Risk associated with exposure value adjustment	14	175	16		
Risk exposure amount	3 779	47 233	3 937		
Risk weight floors based on ECB's decision	391	4 893	359		
Total risk exposure amount including risk weight floors	4 170	52 126	4 297	49 216	

\* Capital requirement = Risk-weighted assets x 0.08

#### 1.4 Capital Ratios

Ratios, %	31 Dec. 2018	31 Dec. 2017
CET1 capital ratio	20,5	20,1
Tier 1 ratio	20,6	20,3
Capital adequacy ratio	22,5	22,5
Ratios excluding the risk weight floors, $\%$	31 Dec. 2018	31 Dec. 2017
CET1 capital ratio	22,6	22,1
Tier 1 ratio	22,8	22,3
Capital adequacy ratio	24,9	24,8

The risk weight floors set by the ECB decreased the CET1 ratio by 2.1 percentage points. An increase in total risk exposure amount resulting from growth in the loan portfolio exceeded an increase in CET1 capital. The transfer of pension liabilities to Ilmarinen improved the CET1 ratio by 0.4 percentage points.

Ratios, fully loaded, %	31 Dec. 2018	31 Dec. 2017
CET1 capital ratio	20,5	20,1
Tier 1 ratio	20,5	20,1
Capital adequacy ratio	22,4	22,4
Constant and and a constant of the second	31 Dec. 2018	31 Dec. 2017
Capital requirement, EUR million	11 752	11 093
Capital base		
Capital requirement	7 448	7 027
Buffer for capital requirements	4 304	4 067

OP Financial Group's capital adequacy is on a solid basis compared to the statutory requirements and those set by the authorities. The capital requirement of 14.3% comprises the minimum requirement of 8%, the capital conservation buffer of 2.5%, the O-SII buffer requirement of 2.0%, the minimum requirement of 1.75% (P2R) set by the ECB and the changing capital conservation buffers by country for foreign exposures. The ECB's P2R has been effective since 1 January 2017.

# 2 Credit Risk

The figures presented in the credit risk section excludes items treated within the scope of counterparty credit risk.

2.1 Total and average net amount of exposures (EU CRB-B)

	а	Ь
	Net value of	Average net
	exposures at	exposures
	the end of the	over the
31 Dec. 2018, EUR million	period	period
IRB approach		
2 Institutions	7 406	
3 Corporates	46 752	
5 Of which: SMEs	17 172	
6 Retail	55 686	
7 Secured by real estate property	47 214	
8 SMEs	1 209	
9 Non-SMES	46 005	
11 Other retail	8 472	
12 SMEs	1 163	
13 Non-SMEs	7 310	
14 Equity	2 406	
14a Other non-credit obligations	1 187	
15 Total IRB approach	113 437	110 227
Standardised approach		
16 Central government and central banks	14 334	
17 Regional government or local authorities	3 715	
18 Public sector entities	351	
19 Multilateral development banks	529	
20 International organisations	386	
21 Institutions	20	
22 Corporates	2 863	
23 Of which: SMEs	1 604	
24 Retail	3 471	
25 Of which: SMEs	13	
26 Secured by mortgages on immovable property	58	
27 _ 0f which: SMEs		5
28 Exposures in default	15	
32 Collective investments undertakings	0	-
33 Equity exposures	12	
34 Other exposures	24	
35 Total standardised approach	25 778	
36 Total	139 215	136 518

The loan portfolio continued to grow in corporate and retail exposures. 85% of sovereign exposures are deposits with the central bank.

## 2.2 Geographical breakdown of exposures (EU CRB-C)

	а	b	с	d	e	f	g	h	i
		Other Nordic							
value, 31 Dec. 2018, EUR million	Finland	countries	Baltic States	Rest of EU	Rest of Europe	USA	Asia	Other	Total
IRB approach									
1 Central government and central banks									
2 Institutions	541	1 799	0	3 431	70	72	256	1 238	7 406
3 Corporates	44 139	1 194	475	733	101	22	40	49	46 752
4 Retail	55 347	97	14	117	31	29	32	18	55 686
5 Equity	2 370			1	1	35			2 406
5a Other non-credit obligations	1 187	0							1 187
6 Total IRB approach	103 583	3 090	489	4 282	203	158	328	1 305	113 437
Standardised approach									
7 Central government and central banks	13 029	6	154	1 145					14 334
8 Regional government or local authorities	2 103	143	117	1 321				31	3 715
9 Public sector entities	176			176					351
10 Multilateral development banks	93			436					529
11 International organisations				386					386
12 Institutions	17	0		2					20
13 Corporates	1 074	149	1 640	-1					2 863
14 Retail	3 450	5	1	9	1	2	2	1	3 471
15 Secured by mortgages on immovable property	58	0	0	0					58
16 Exposures in default	9	0	6	0	0	0	0	0	15
20 Collective investments undertakings	0								0
21 Equity exposures	12		0						12
22 Other exposures	24								24
23 Total standardised approach	20 045	303	1 918	3 474	1	2	2	32	25 778
24 Total	123 628	3 393	2 407	7 756	204	160	329	1 338	139 215

A total of 89% of total exposures are in Finland. A total of 91% of exposures within the scope of IRBA are in Finland. No substantial changes have taken place in the geographical breakdown of exposures.

## 2.3 Concentration of exposures by industry or counterparty types (EU CRB-D)

			Of which SME		Of which SME		SA Central government and central		
Net valu	e, 31 Dec. 2018, EUR million	IRB Corporates	exposures	IRB Retail	exposures	IRB Institutions	banks	Other	Total
а	Renting and operation of residential real estate	8 550	6 432	433	422			5	8 988
b	Operating of other real estate	4 254	2 340	124	86		64	547	4 989
с	Trade	4 721	917	527	291			370	5 618
d	Energy	3 962	465	5	3		2	422	4 392
e	Services	4 486	1 340	1 162	397		488	174	6 310
f	Construction	3 769	1 469	753	336			78	4 600
g	Other manufacturing	2 185	259	75	42			656	2 916
h	Manufacture of machinery and equipment (incl. maintenance)	2 299	118	68	28			34	2 401
i	Transportation and storage	1 381	354	515	322			141	2 038
j	Financial and insurance activities	2 607	1 186	35	18	1 288	2 781	2 660	9 371
k	Central bank deposits						12 216		12 216
l	Covered bonds					6 118			6 118
m	Agriculture, forestry and fishing	1 583	966	3 512	260		2	63	5 160
n	Forest industry	1 370	84	27	15			16	1 413
0	Metal industry	1 137	310	69	40			4	1 211
р	Food industry	1 005	79	22	13			74	1 101
q	Buying and selling of own real estate	846	99	21	5			15	881
r	Information and communication	1 079	247	80	31			7	1 166
s	Other sectors	233	179	25	20	0	0	1 555	1 813
t	Water supply and waste management	374	119	25	19		3	59	461
u	Mining and quarrying	312	161	32	21			4	347
v	Manufacture of chemicals and chemical products Activities of households as employers; undifferentiated goods and services	442	17	2	1			2	446
x	producing activities of households for own use	0	0	177	0			143	320
у	Public administration and defence (incl. compulsory social security)	157	31	1	1		3 760	58	3 976
z	Activities of extraterritorial organisations and bodies	0	0	0	0				0
å	Households			47 996				2 968	50 964
ä	Total	46 752	17 172	55 686	2 372	7 406	19 315	10 056	139 215

In Renting and operation of residential real estate, Trade, Services, Construction, Financial and insurance activities and Public administration, exposure amounts increased during the year. The table presents the breakdown by industry concerning material exposure classes while immaterial exposure classes are presented under other sectors. Central government exposures include exposures from central banks, local governments, public-sector entities, international development banks and international organisations.

## 2.4 Maturity of exposures (EU CRB-E)

	а	b	с	d	е	f		
		Net exposure value						
			> 1 year ≤ 5		No stated			
Net value, 31 Dec. 2018, EUR million	On demand	≤1 year	years	> 5 years	maturity	Total		
IRB approach								
2 Institutions	71	1 029	4 180	2 119	7	7 406		
3 Corporates		6 104	16 873	18 045	5 730	46 752		
4 Retail		959	6 146	45 821	2 761	55 686		
5 Equity			56	1 207	1 143	2 406		
5a Other non-credit obligations		93	150	30	914	1 187		
6 Total IRB approach	71	8 184	27 404	67 223	10 555	113 437		
Standardised approach								
7 Central government and central banks	12 299	2	596	1 105	332	14 334		
8 Regional government or local authorities		68	1 316	1 712	618	3 715		
9 Public sector entities		183	102	64	2	351		
10 Multilateral development banks		112	246	170		529		
11 International organisations		37	71	278		386		
12 Institutions				0	19	20		
13 Corporates		95	793	667	1 306	2 863		
14 Retail		2 023	618	305	525	3 471		
15 Secured by mortgages on immovable property			54	4		58		
16 Exposures in default		0	8	1	6	15		
20 Collective investments undertakings					0	0		
21 Equity exposures				12		12		
22 Other exposures		4	16	2	2	24		
23 Total standardised approach	12 299	2 526	3 820	4 322	2 811	25 778		
24 Total	12 370	10 710	31 224	71 545	13 366	139 215		

No substantial changes have taken place in maturity breakdown. The maturity is presented according to the contractual maturity.

## 2.5 Credit quality of exposures by exposure class and instrument (EU CR1-A)

	а	b	c	е	f Credit risk	g
	Gross carryir	ng values of	Specific credit		adjustment	
	Defaulted	Non-defaulted	risk	Accumulated	charges of the	Net values
Net value, 31 Dec. 2018, EUR million	exposures	exposures	adjustments	write-offs	period	(a+b-c)
IRB approach						
2 Institutions		7 407	1		0	7 406
3 Corporates	716	46 439	403	23	44	46 752
5 Of which: SMEs	298	17 006	132	7	0	17 172
6 Retail	471	55 321	106	12	-10	55 686
7 Secured by real estate property	364	46 900	51	1	6	47 214
8 SMEs	31	1 182	3	0	2	1 209
9 Non-SMES	334	45 719	48	1	5	46 005
11 Other retail	107	8 420	55	11	-16	8 472
12 SMEs	31	1 144	12	3	5	1 163
13 Non-SMEs	76	7 276	43	8	-21	7 310
14 Equity	0	2 411	5		2	2 406
14a Other non-credit obligations	1	1 186	1		1	1 187
15 Total IRB approach	1 188	112 764	516	35	37	113 437
Standardised approach						
16 Central government and central banks		14 335	0		0	14 334
17 Regional government or local authorities		3 715	1		1	3 715
18 Public sector entities		351	0		0	351
19 Multilateral development banks		529	0		0	529
20 International organisations		386	0		0	386
21 Institutions		20	0		0	20
22 Corporates		2 869	7		1	2 863
23 Of which: SMEs		1 611	7		3	1 604
24 Retail		3 487	16	0	7	3 471
25 Of which: SMEs		13	0		0	13
26 Secured by mortgages on immovable property		58	0		-1	58
28 Exposures in default	21		6	8	0	15
32 Collective investments undertakings		0	0			0
33 Equity exposures		13	0		0	12
34 Other exposures		24	0			24
35 Total standardised approach	21	25 787	29	8	9	25 778
36 Total	1 209	138 551	545	43	46	139 215
37 Of which: Loans	1 118	90 794	492		94	91 419
38 Of which: Debt securities		11 385				11 385
39 Of which: Off-balance-sheet exposures	63	23 941	5		5	23 999

The quality of the loan portfolio still remained good. The amount of defaulted exposures was lower than a year ago despite an increase in the loan portfolio. Credit risk adjustment charges (ECL) are not comparable with those a year ago due to the adoption of IFRS 9. Credit risk adjustment charges for the period are presented in net terms for the whole year. Defaulted exposures are exposures belonging to rating categories 11–12 or F. In the Standardised Approach exposures are defaulted in case interest or capital are over 90 days overdue.

#### 2.6 Credit quality of exposures by industry or counterparty types (EU CR1-B)

	a Gross carryi Defaulted	Non-defaulted	c Specific credit risk	e Accumulated	f Credit risk adjustment charges of the	g Net values
Net value, 31 Dec. 2018, EUR million	exposures	exposures	adjustments	write-offs	period	(a+b-c)
1 Renting and operation of residential real estate	55	8 959	26	0	25	8 988
2 Operating of other real estate	52	4 959	23	2	7	4 989
3 Trade	57	5 584	24	2	6	5 618
4 Energy	39	4 388	35	0	23	4 392
5 Services	85	6 259	34	2	8	6 310
6 Construction	75	4 555	30	2	12	4 600
7 Other manufacturing	46	2 887	17	1	-3	2 916
8 Manufacture of machinery and equipment (incl. maintenance)	35	2 384	18	15	-9	2 401
9 Transportation and storage	42	2 017	21	1	10	2 038
10 Financial and insurance activities	8	9 376	14	0	4	9 371
11 Central bank deposits	0	12 216	0	0	0	12 216
12 Covered bonds	0	6 118	0	0	0	6 118
13 Agriculture, forestry and fishing	114	5 083	37	2	3	5 160
14 Forest industry	151	1 362	100	2	-1	1 413
15 Metal industry	57	1 176	23	1	-2	1 211
16 Food industry	21	1 097	16	0	5	1 101
17 Buying and selling of own real estate	4	880	2	0	1	881
18 Information and communication	12	1 162	8	0	2	1 166
19 Other sectors	4	1 820	10	0	-34	1 813
20 Water supply and waste management	1	460	1	0	0	461
21 Mining and quarrying	34	336	23	0	1	347
22 Manufacture of chemicals and chemical products Activities of households as employers; undifferentiated goods and services producing activities of	0	446	0	0	0	446
23 households for own use	2	319	1	0	1	320
24 Public administration and defence (incl. compulsory social security)	0	3 977	1	0	1	3 976
25 Activities of extraterritorial organisations and bodies	0	0	0	0	0	0
26 Households	316	50 731	84	14	-12	50 964
24 Total	1 209	138 551	545	43	46	139 215

Credit risk adjustments in the real estate sector are low due to high collateral levels. The amount of defaulted exposures in Agriculture, forestry and fishing relative to credit risk adjustments is explained by technical defaults resulting from subsidies payment schedules. The high amount of defaulted exposures in the Forest industry, mining and quarrying relative to exposures is due to individual cases with high exposure amount in comparison with the total exposure amount in the sector.

# 2.7 Credit quality of exposures by geography (EU CR1-C)

	а	b	с	e	f	g
	Gross carryi	ng values of	Specific credit		Credit risk adjustment	
	Defaulted	Non-defaulted	risk	Accumulated	charges of the	Net values
Net value, 31 Dec. 2018, EUR million	exposures	exposures	adjustments	write-offs	period	(a+b-c)
1 Finland	1 193	122 969	534	42	42	123 628
2 Other Nordic countries	2	3 392	1	0	0	3 393
3 Baltic States	9	2 404	6	0	3	2 407
4 Rest of EU	2	7 756	2	0	0	7 756
5 Rest of Europe	0	204	0	0	0	204
6 USA	0	160	1	0	0	160
7 Asia	0	329	0	0	0	329
8 Other	2	1 336	1	0	1	1 338
11 Total	1 209	138 551	545	43	46	139 215

A total of 89% of total exposures are in Finland and other distribution is presented applying the materiality principle. A total of 98% of defaulted exposures and 99% credit risk adjustments are in Finland.

## 2.8 Ageing of past-due exposures (EU CR1-D)

	a	b	с	d	e	f			
		Gross carrying values							
		> 30 days ≤ 60	> 60 days ≤ 90	> 90 days ≤	> 180 days ≤ 1				
Net value, 31 Dec. 2018, EUR million	≤ 30 days	days	days	180 days	year	> 1 year			
1 Loans	302	177	79	159	162	453			
2 Debt securities									
3 Total exposures	302	177	79	159	162	453			

Total past due exposures were low, accounting for 1% of exposures.

#### 2.9 Non-performing and forborne exposures (EU CR1-E)

Net value, 31 Dec. 2018, EUR million	Debt securities	Loans and advances	Off-balance- sheet exposures
Gross carrying values of performing and non-performing exposures	11 385	91 912	24 004
Of which performing but past due $>$ 30 days and <= 90 days		154	
Of which performing forborne		2 565	
Of which non-performing		1 407	71
Of which defaulted		1 118	63
Of which impaired		1 129	
Of which forborne		426	
Accumulated impairment and provisions and negative fair value adjustments due to credit risk			
On performing exposures	-3	-98	-5
Of which forborne		-9	
On non-performing exposures		-429	
Of which forborne		-67	
Collaterals and financial guarantees received			
On non-performing exposures	57	734	5
Of which forborne exposures		2 360	

Forborne exposures increased slightly during the year.

#### 2.10 Changes in the stock of general and specific credit risk adjustments (EU CR2-A)

	а
	Accumulated
	specific credit
	risk
ue, 31 Dec. 2018, EUR million	adjustment
1 Opening balance 31 Dec 2017	499
2 Increases due to amounts set aside for estimated loan losses during the period	73
3 Decreases due to amounts reversed for estimated loan losses during the period	-12
4 Decreases due to amounts taken against accumulated credit risk adjustments	-15
9 Closing balance 31 Dec 2018	545

Credit risk adjustments under IFRS 9 (ECL) are presented as specific credit risk adjustments. Credit risk adjustments are not comparable with those of previous year due to the adoption of IFRS 9.

#### 2.11 Changes in the stock of defaulted and impaired loans and debt securities (EU CR2-B)

	d
	Gross carrying value
Net value, 31 Dec. 2018, EUR million	defaulted exposures
1 Opening balance 30 June 2018	1 182
2 Loans and debt securities that have defaulted or impaired since the last reporting period	256
3 Returned to non-defaulted status	-84
4 Amounts written off	-37
5 Other changes	-108
6 Closing balance 31 Dec 2018	1 209

Defaulted loans decreased slightly especially in corporate customers.

#### 2.12 CRM techniques - Overview (EU CR3)

	а	b	с	d	e
	Exposures	Exposures		Exposures	Exposures
	unsecured –	secured –	Exposures	secured by	secured by
	Carrying	Carrying	secured by	financial	credit
Net value, 31 Dec. 2018, EUR million	amount	amount	collateral	guarantees	derivatives
1 Total loans	30 737	60 668	55 375	5 293	
2 Total debt securities	4 414	6 970	6 118	852	
3 Total exposures	69 465	69 750	63 205	6 545	
4 Of which defaulted	347	461	415	46	

In the IRBA applied to retail exposures, it is possible to use collateral securities on a more extensive basis than in the SA applied to credit institution and corporate exposures. Guarantees and collateral related to retail exposures are treated as part of LGD. Several collateral securities or guarantees may apply to the same exposure in the table.

In the SA and IRBA applied to credit institution and corporate exposures, OP Financial Group utilises the following real collateral securities specified in the capital adequacy regulations: residential buildings and shares entitling their holders to the possession of an apartment, deposits and securities (equities). Deposits and securities are financial collateral, as referred to in the regulatory framework, and alternative methods are available for their accounting treatment. OP Financial Group has treated financial collateral in the above approaches using the so-called comprehensive method and volatility adjustments given by the relevant regulator.

In the SA and IRBA applied to credit institution and corporate exposures, only approved guarantors specified in the capital adequacy regulations may be used, such as guarantees granted by the Finnish State and other states, and those granted by municipalities and banks. Credit derivatives have not been used in the calculation. Offsetting balance-sheet or off-balance-sheet items was not applied in credit risk.

Residential buildings and shares entitling their holders to the possession of an apartment in Finland lodged as collateral constitute the largest collateral type used in capital adequacy. The effect of other physical securities on the capital adequacy of credit risks is much less significant. Guarantees used have been given by a number of sources, the largest single one being the State of Finland.

# 2.13 Collateral used in capital adequacy calculation

			Financial	Other
Net value, 31 Dec. 2018, EUR million	Exposure	Guarantees	collateral	collateral
Standardised Approach	26 669	176	11	58
Exposures to central government and central banks	14 614		2	
Exposures to regional government or local authorities	3 927			
Exposures to public sector entities	352	176	8	
Exposures to multilateral development banks	630			
Exposures to international organisations	386			
Exposures to institutions	317			
Exposures to corporates	2 863		0	
Retail exposures	3 471			
Exposures secured by mortgages on immovable property	58			58
Exposures in default	15			
Exposures in the form of units or shares in collective investment undertakings (CIU)	0			
Equity exposures	12			
Other items	24			
Internal Ratings-based Approach	115 762	6 314	766	49 002
Exposures to institutions	8 056	202	269	
Exposures to corporates	47 707	3 114	334	3 255
Retail exposures	55 793	2 998	163	45 747
Exposures secured by mortgages on immovable property	47 265	835	90	44 522
Other retail exposures	8 528	2 163	72	1 225
Equity investments	2 406			
PD/LGD method	2 312			
Simple Risk Weight Approach	94			
Items representing securitisation positions	613			
Other non-credit obligations	1 188			
Total	142 432	6 489	776	49 059

The table contains information on both credit risk and counterparty risk, i.e. the information does not match with the amounts of net exposures presented in other tables. The amount of immovable property collateral securities is not comparable with that previously reported due to change in reporting. The amount of guarantees has decreased from the end of 2017.

# 2.14 Standardised approach – Credit risk exposure and CRM effects (EU CR4)

	a	b	с	d	e	f
	Exposures befor	re CCF and CRM	Exposures post	CCF and CRM	RWAs and RWA	A density (%)
	On-balance-	Off-balance-	On-balance-	Off-balance-		RWA density
Exposure classes, EUR million	sheet amount	sheet amount	sheet amount	sheet amount	RWAs	(%)
1 Central governments or central banks	14 000	334	15 800	89	261	1,6
2 Regional government or local authorities	2 715	1 000	3 547	277		
3 Public sector entities	247	104	70	51	32	26,5
4 Multilateral development banks	529		630	18	0	0,0
5 International organisations	386		386			
6 Institutions	20	0	20	0	1	3,2
7 Corporates	2 230	632	2 230	316	2 533	99,5
8 Retail	1 284	2 187	1 284	0	961	74,8
9 Secured by mortgages on immovable property	58		58		29	49,7
10 Exposures in default	15	0	15		19	127,5
14 Collective investment undertakings	0		0		0	100,0
15 Equity	12		12		12	100,0
16 Other items	24		24		24	99,6
17 Total	21 520	4 258	24 076	751	3 871	15,6

The exposure amount and RWAs under the Standardised Approach decreased slightly during the year. Central government exposures include deferred tax assets which have not been deducted from the Group's own funds; these are treated with a risk weight of 250%. Deferred tax assets were previously presented in Other items.

## 2.15 Standardised approach (EU CR5)

					Risk weight						Of which
Exposure classes, EUR million	0 %	20 %	35 %	50 %	75 %	100 %	150 %	250 %	Others	Total	unrated
1 Central governments or											
central banks	15 785							104		15 889	104
2 Regional government or											
local authorities	3 824									3 824	956
3 Public sector entities		111				10				121	
4 Multilateral development											
banks	647					0				647	647
5 International organisations	386									386	386
6 Institutions	17	3								21	21
7 Corporates						2 546				2 546	
8 Retail					1 284					1 284	1 284
9 Secured by mortgages on											
immovable property			1	56						58	58
10 Exposures in default						7	8			15	15
14 Collective investment											
undertakings						0				0	0
15 Equity						12				12	12
16 Other items	0					24				24	24
17 Total	20 660	114	1	56	1 284	2 599	8	104	0	24 827	3 507

In its capital adequacy measurement for credit risk under the Standardised Approach to determine the exposure's risk weight, OP Financial Group applies credit ratings by Moody's Investors Service, Fitch Ratings or Standard & Poor's Financial Services to receivables from central governments and central banks (and comparable items, above lines 2–5) and corporations. External credit assessment determines the receivable's credit rating category. In the capital adequacy requirement for receivables, the risk weight is determined by the credit rating category. If two credit rating applies to the counterparty or receivable, the lowest rating category is used to determine the rating category.

The risk weight of international development banks' receivables may also be determined on the basis of other than credit rating based on external credit assessment. If the risk weight is affected by external credit assessment, credit ratings issued by the aforementioned rating agencies will also apply to the risk weighting of international development banks' receivables in capital adequacy measurement.

For a receivable in capital adequacy measurement, the security-specific credit rating of the issue programme or arrangement to which the receivable belongs must be used. If such a rating is not available, the issuer's general credit rating will be used, provided that it is available. Items under the Standardised approach do not include items deducted from the capital base.

#### 2.16 IRB approach – Credit risk exposures by exposure class and PD range (EU CR6)

The table below presents the PD class breakdown of credit exposures within the scope of the IRB approach, specification of risk parameters and other information. The defaults, or PD 100, are not included in the average PD and risk weight. The minimum PD is 0.03%. CCF stands for a credit conversion factor. Off-balance-sheet exposures include loans not drawn down and unused commitments. Exposure amounts do not include counterparty credit risk.

	а	b	с	d	e	f	g	h	i	j	k	l Impair-
	Original on-	Off-balance-										ments and
	balance-sheet	sheet exposures		EAD post CRM		Number of		Average				value
PD scale	gross exposures	pre-CCF	Average CCF	and post CCF	Average PD	obligors	Average LGD	maturity	RWAs	RWA density	EL	adjustments
Retail												
0,00 - < 0,15	42 973	3 131	53,3 %	41 489	0,0 %	593 680	15,9 %	14	928	2,2 %		3
0,15 - < 0,25	2 368	116	66,7 %	2 325	0,2 %	76 959	15,8 %	14	167	7,2 %	:	1
0,25 - < 0,50	3 628	175	64,7 %	3 557	0,4 %	141 111	23,0 %	11	535	15,0 %		3
0,50 - < 0,75	1 047	27	57,2 %	1 034	0,7 %	53 018	23,9 %	10	242	23,4 %		2
0,75 - < 2,50	2 411	147	67,4 %	2 352	1,4 %	88 971	29,2 %	9	812	34,5 %	10	C
2,50 - < 10,00	1 797	85	68,5 %	1 760	5,7 %	71 111	29,1 %	9	1 073	61,0 %	2	9
10,00 - < 100,00	1 097	22	75,0 %	1 090	25,8 %	33 986	25,2 %	10	1 068	98,0 %	70	C
100,00	471	5	1,5 %	467	100,0 %	12 172	27,9 %	18	451	96,5 %	113	3
Total	55 792	3 709	55,0 %	54 073	0,9 %	1 071 008	17,8 %	14	5 276	9,0 %	230	0 106

The average risk parameters of retail exposures rose slightly from 2017-end levels.

In setting PD values given by rating models assessing solvency of personal customers' retail exposures, OP Financial Group has used its own default data and external data. As external data, OP Financial Group has made use of the unemployment rate since 1989. The Group has taken account of uncertainty associated with the data using a statistical margin of conservatism.

In setting PD values given by rating models assessing corporate customers in retail exposures, OP Financial Group has used its own default data and external data. As external data, the Group has used bankruptcy statistics since 1987. The Group has taken account of uncertainty associated with the data using a statistical margin of conservatism. The current corporate customer PDs in use were adopted in the first quarter of 2015.

In determining LGD estimates for retail exposures, the Group has used contract, customer, default, collateral and debt-collection data from 2008 until 2014. The Group applies the definition of default as in the PD models. In addition, the model uses product level cash flow data on uncollateralised returns and the recovery rate of default probabilities as well as recession valuation adjustments for collateral values based on the recession of the early 1990s. The Group has taken account of uncertainty associated with the data using a margin of conservatism.

In the risk weight calculation, the Group applies the regulatory LGD minimum of 10% and 15% to residential mortgage-backed exposures and commercial mortgage-backed exposures, respectively.

	а	b	с	d	e	f	g	h	i	j	k	L.
	Original on-	Off-balance- sheet exposures		EAD post CRM		Number of		Average				Impair- ments and value
PD scale	gross exposures		Average CCF	and post CCF	Average PD	obligors	Average LGD	maturity	RWAs	RWA density	EL	adjustments
Retail - Secured by r	eal estate prope	erty										
0,00 - < 0,15	38 734	-	54,5 %	38 374	0,0 %	453 719	14,1 %	14,7	732	1,9 %	3	3
0,15 - < 0,25	1 786	24	53,7 %	1 775	0,2 %	23 215	14,8 %	14,2	120	6,8 %	1	L
0,25 - < 0,50	2 346	67	62,2 %	2 321	0,4 %	38 152	14,3 %	13,1	224	9,7 %	1	L
0,50 - < 0,75	654	5	57,1 %	652	0,7 %	10 555	14,4 %	12,9	100	15,4 %	1	L
0,75 - < 2,50	1 454	69	66,6 %	1 431	1,4 %	25 529	16,0 %	11,2	347	24,2 %	3	3
2,50 - < 10,00	1 120	31	67,8 %	1 110	5,8 %	17 165	16,8 %	11,6	623	56,2 %	11	L
10,00 - < 100,00	806	10	74,7 %	804	26,5 %	10 321	16,3 %	12,1	752	93,5 %	35	5
100,00	364	2	2,8 %	362	100,0 %	4 619	18,6 %	16,6	404	111,6 %	40	)
subtotal	47 265	1 000	56,3 %	46 828	0,7 %	583 275	14,3 %	14,4	3 302	6,2 %	93	51
Retail - Other												
Retail - Other - Non-	SMEs											
0,00 - < 0,15	4 238	2 339	52,9 %	3 115	0,1 %	198 042	38,2 %	10,6	196	6,3 %	1	L
0,15 - < 0,25	581	91	70,6 %	549	0,2 %	54 940	18,7 %	13,8	47	8,6 %	C	)
0,25 - < 0,50	1 015	79	65,7 %	983	0,4 %	102 363	35,8 %	7,1	243	24,7 %	1	L
0,50 - < 0,75	393	22	57,3 %	382	0,7 %	43 100	40,1 %	5,0	142	37,1 %	1	L
0,75 - < 2,50	440	22	67,5 %	430	1,4 %	54 683	36,1 %	6,6	188	43,7 %	2	2
2,50 - < 10,00	398	14	78,4 %	391	6,1 %	48 365	37,4 %	6,1	236	60,4 %	ç	)
10,00 - < 100,00	211	2	71,1 %	210	24,4 %	22 470	40,0 %	5,8	208	99,0 %	20	)
100,00	76	0	0,0 %	76	100,0 %	5 196	48,7 %	21,5	10	12,5 %	46	
subtotal	7 352	2 570	54,0 %	6 137	1,5 %	529 159	36,2 %	9,4	1 269	20,8 %	81	. 43
Retail - Other - SME	5											
0,00 - < 0,15	0	0	66,0 %	0	0,0 %	16	65,9 %	0,8	0	5,3 %	C	)
0,15 - < 0,25	1		53,5 %	1	0,2 %	33	109,0 %	5,8	0	33,7 %	C	)
0,25 - < 0,50	267	29	70,8 %	253	0,4 %	3 299	52,5 %	3,8	68	26,9 %	1	L
0,50 - < 0,75												
0,75 - < 2,50	516		68,7 %	490	1,4 %	11 848	61,7 %	4,1	277	56,6 %	4	
2,50 - < 10,00	280		65,9 %	259	4,9 %	8 190	69,4 %	4,3	214	82,5 %	ç	
10,00 - < 100,00	81		76,4 %	77	22,9 %	3 163	78,5 %	4,6	109	141,9 %	15	
100,00	31		0,1 %	29	100,0 %	3 112	90,3 %	20,4	37	127,7 %	27	
subtotal	1 175		67,5 %	1 108	3,5 %	29 661	63,3 %	4,5	704	61,9 %	56	
Total	55 792	3 709	52,9 %	54 073	0,8 %	1 142 095	17,7 %	13,5	5 276	8,6 %	230	106

The average risk weights of mortgage-backed retail exposures were at the 2017-end level and the average risk parameters remained at the same levels during the year. Considering that the one and the same customer may include in several sub-exposure classes, the sums of the number of debtors differ between the tables.

	а	b	c	d	е	f	g	h	i	j	k	l Impair-
PD scale	Original on- balance-sheet gross exposures	Off-balance- sheet exposures pre-CCF	Average CCF	EAD post CRM and post CCF	Average PD	Number of obligors	Average LGD	Average maturity	RWAs	RWA density	EL	ments and value adjustments
Corporates												
0,00 - < 0,15	10 785	4 270	71,0 %	8 577	0,1 %	540	44,1 %	4,1	2 049	23,9 %	3	J.
0,15 - < 0,25	5 034	2 129	67,9 %	3 816	0,2 %	590	44,5 %	5,9	1 650	43,2 %	3	J.
0,25 - < 0,50	10 166	3 363	64,2 %	8 454	0,4 %	8 618	43,3 %	10,1	4 447	52,6 %	14	,
0,50 - < 0,75												
0,75 - < 2,50	10 944	3 383	62,0 %	9 052	1,3 %	9 084	43,0 %	9,0	7 935	87,7 %	51	
2,50 - < 10,00	8 570	1 797	61,2 %	4 623	4,5 %	8 537	43,0 %	8,1	5 601	121,1 %	90	)
10,00 - < 100,00	940	290	61,2 %	789	20,0 %	1 428	43,4 %	7,9	1 511	191,6 %	69	)
100,00	716	58	51,3 %	679	100,0 %	919	44,1 %	18,0	0	0,0 %	301	
Total	47 155	15 291	65,4 %	35 991	1,5 %	29 716	43,5 %	7,8	23 194	65,7 %	531	. 403

The average risk weight of corporate exposures increased slightly from the 2017-end level.

In setting PD values given by rating models assessing solvency of corporate customers' retail exposures, OP Financial Group has used its own default data and external data. As external data, the Group has used bankruptcy statistics since 1987. The Group has taken account of uncertainty associated with the data using a statistical margin of conservatism. The current corporate customer PDs in use were adopted in the first quarter of 2015.

	a	b	с	d	е	f	g	h	i	j	k	L.
	Original on-	Off-balance-										Impair- ments and
	balance-sheet			EAD post CRM		Number of		Average				value
PD scale	gross exposures	pre-CCF	Average CCF	and post CCF	Average PD	obligors	Average LGD	maturity	RWAs	RWA density	EL	adjustments
Corporates - Other												
0.00 - < 0.15	9 111	3 660	71.2 %	7 280	0.1 %	334	44.0 %	4,3	1 783	24,5 %	2	)
0,15 - < 0,25	4 524	1 886	69,1 %	3 420	0,2 %	167	44,5 %	4,6	1 508	44,1 %	3	
0,25 - < 0,50	5 177	2 447	72,4 %	3 978	0,4 %	1 287	44,0 %	5.9	2 502	62,9 %	7	7
0,50 - < 0,75												
0,75 - < 2,50	5 995	2 392	64,1 %	4 677	1,4 %	1 683	43,2 %	7,4	4 816	103,0 %	27	7
2,50 - < 10,00	4 086	1 098	59,3 %	1 918	4,4 %	1 546	43,5 %	7,9	2 832	147,7 %	37	7
10,00 - < 100,00	540	249	63,6 %	411	16,5 %	187	44,3 %	7,1	935	227,3 %	30	)
100,00	417	45	52,9 %	388	100,0 %	170	44,5 %	17,2			173	}
subtotal	29 850	11 778	68,3 %	22 072	1,1 %	5 374	43,9 %	5,9	14 377	65,1 %	279	271
Corporates - SMEs												
0,00 - < 0,15	1 674	610	68,2 %	1 297	0,1 %	206	44,6 %	3,1	266	20,5 %	C	)
0,15 - < 0,25	510	243	61,8 %	397	0,2 %	423	44,2 %	17,9	142	35,9 %	C	)
0,25 - < 0,50	4 990	916	47,0 %	4 476	0,4 %	7 333	42,6 %	13,7	1 945	43,5 %	7	7
0,50 - < 0,75												
0,75 - < 2,50	4 949	992	57,3 %	4 375	1,3 %	7 403	42,7 %	10,8	3 119	71,3 %	24	
2,50 - < 10,00	4 484	698	63,5 %	2 706	4,5 %	6 992	42,6 %	8,2	2 769	102,3 %	53	
10 - < 100	400	41	49,4 %	378	23,8 %	1 241	42,5 %	8,8	577	152,7 %	39	
100	298	13	47,4 %	291	100,0 %	749	43,5 %	19,1			128	
subtotal	17 304	3 514	56,5 %	13 919	2,1 %	24 347	42,9 %	10,8	8 818	63,4 %	251	
Total	47 155	15 291	65,4 %	35 991	1,5 %	29 721	43,5 %	7,8	23 194	64,4 %	531	. 403
	a	b	с	d	е	f	g	h	i	j	k	l Impair-
	Original on-	Off-balance-										ments and
	balance-sheet	sheet exposures		EAD post CRM		Number of		Average				value
PD scale	gross exposures	pre-CCF	Average CCF	and post CCF	Average PD	obligors	Average LGD	maturity	RWAs	RWA density	EL	adjustments
Institutions												
0,00 - < 0,15	6 261	477	70,2 %	6 128	0,0 %	160	14,4 %	4,8	503	8,2 %	C	)
0,15 - < 0,25	491	68	69,6 %	472	0,2 %	24	14,7 %	3,4	83	17,5 %	C	)
0,25 - < 0,50	235	73	52,4 %	200	0,4 %	42	19,2 %	6,0	74	37,0 %	C	)
0,50 - < 0,75	278	64	61,3 %	60	0,7 %	49	45,0 %	1,9	65	107,9 %	C	)
0,75 - < 2,50	38	20	26,5 %	24	1,3 %	21	45,0 %	4,8	31	131,3 %	C	)
2,50 - < 10,00	98	38	44,8 %	79	4,4 %	47	45,0 %	1,6	144	181,0 %	2	2
10,00 - < 100,00	5	3	37,0 %	3	11,5 %	11	45,0 %	0,3	6	246,1 %	C	)
Total	7 407	743	65,0 %	6 965	0,1 %	354	15,3 %	4,7	906	13,0 %	3	8 1

The average risk weights of credit institution exposures increased slightly during the year. Some 88% of the credit institution exposures are covered bonds.

For setting PD values given by the credit institution exposure rating model, OP Financial Group has used rating scores for credit institution exposure and external credit ratings and the corresponding default data. PD values have been adjusted with a margin of conservatism in order to take account of uncertainties associated with the data.

Value

#### 2.17 Equities (EU CR10, EU CR6)

#### Equities under the simple risk-weighted approach

						Capital
	On-balance-	Off-balance-		Exposure		require-
Categories	sheet amount	sheet amount	Risk weight	amount	RWAs	ments
Private equity exposures	80		190 %	80	152	12
Exchange-traded equity exposures			290 %			
Other equity exposures	14		370 %	14	52	4
Total	94			94	205	16
Equity investments decreased slightly during the year. Listed investments are measured at market value.						

#### PD/LGD method

	a	b	с	d	e	f	g	h	i	j	k	l
		Off-balance- sheet exposures		EAD post CRM		Number of		Average	2111			Value adjust- ments and
PD Scale	gross exposures	pre-CCF	Average CCF	and post CCF	Average PD	obligors	Average LGD	maturity	RWAs	RWA density	EL	provisions
0,75 - < 2,50	2 312			2 312	1,3	4	90,0	21,5	6 454	279,2	2	6

The PD/LGD method for equity investments has been used to treat the Group's strategic investments, of which the most significant ones (EAD EUR 2,306 million) include investments in the Group's insurance companies. In these exposures, EAD is the same as gross exposures and the exposures do not include off-balance-sheet items. PD for unlisted investments is 1.25 which is determined by regulation. No major changes have occurred in the amount of exposures. Maturity has been presented for instruments with a contractual maturity.

## 2.18 Non-deducted participations in insurance undertakings (EU INS1)

#### 31 Dec. 2018, EUR million

Holdings of own funds instruments of a financial sector entity where the institution has a significant investment not deducted from own funds (before risk-weighting)	2 306
Total RWAs	6 438

The Group treats insurance holdings in equity investments based on the supervisor's permission. In October 2015, the Group received permission from the ECB to treat insurance holdings within the conglomerate as risk-weighted assets according to the previous practice.

## 2.19 RWA flow statements of credit risk exposures under the IRB approach (EU-CR8)

	a	b
		Capital
		require-
EUR million	RWA amounts	ments
1 RWAs as at the end of the previous reporting period 30 Sept 2018	28 842	2 307
2 Asset size	423	34
3 Asset quality	111	9
9 RWAs as at the end of the reporting period 31 Dec 2018	29 376	2 350

Changes occurred in retail exposures, corporate exposures and credit institution exposures during the last quarter are presented using the flow statements. Exposure amount increased risk-weighted assets and the credit quality weakened slightly in corporate exposures, which increased risk-weighted assets.

# 2.20 IRB approach – Backtesting of PD per exposure class (EU CR9)

The following tables compare the probability of default (PD) applied in capital adequacy measurement with the actual historical average default. The calculation of the weighted average PD has not taken account of defaulted exposures (PD = 100%).

a	b	d	е		f	g	h	i
		Weighted	Arithmetic	Number of Previous	of obligors	Defaulted obligors in the	Of which new	Average historical annual
Exposure class	PD Range	average PD	obligors	year	End of the year	year	obligors	default rate
Retail	0,00 -< 0,15	0,0 %	0,1 %	570 880	593 680			
	0,15 -< 0,25	0,2 %	0,2 %	75 395	76 959			
	0,25 -< 0,50	0,4 %	0,4 %	133 226	141 111			
	0,50 -< 0,75	0,7 %	0,7 %	51 523	53 018			
	0,75 -< 2,50	1,4 %	1,4 %	84 402	88 971			
	2,50 -< 10,00	5,7 %	5,8 %		71 111			
	10,00 -< 100,00	25,8 %	24,4 %		33 986			
	100.00	100,0 %	100,0 %		12 172	7 799	673	
	Total	0,9 %	1,4 %		1 071 008	7 799	673	0,8 %
a	b	d	e		f	q	h	i
a	b	u	e	Number o		g		
			Arithmetic	Number o	in obligors	Defeulted		Average historical
		Weighted		End of previous		Defaulted	Of which new	annual
Exposure class	PD Range	Weighted average PD	obligors	year	End of the year	obligors in the year	obligors	default rate
Retail - Secured by real estate property	0,00 -< 0,15	0,0 %	0,0 %	444 812	453 719			
	0,15 -< 0,25	0,2 %	0,2 %	25 234	23 215			
	0,25 -< 0,50	0,4 %	0,4 %	38 759	38 152			
	0,50 -< 0,75	0.7 %	0,7 %	11 064	10 555			
	0,75 -< 2,50	1,4 %	1,4 %		25 529			
	2,50 -< 10,00	5,8 %	5,7 %		17 165			
	10,00 -< 100,00	26,5 %	25,9 %		10 321			
	100,00	100.0 %	100,0 %		4 619	3 087	14	
	Total	0.7 %	0,7 %		583 275	3 087	14	0,7 %
					198 042	5 007	14	0,7 %
Retail - Other - Non-SMEs	0,00 -< 0,15	0,1 %	0,1 %					
	0,15 -< 0,25	0,2 %	0,2 %		54 940			
	0,25 -< 0,50	0,4 %	0,4 %		102 363			
	0,50 -< 0,75	0,7 %	0,7 %		43 100			
	0,75 -< 2,50	1,4 %	1,4 %		54 683			
	2,50 -< 10,00	6,1 %	6,0 %		48 365			
	10,00 -< 100,00	24,4 %	24,3 %		22 470			
	100,00	100,0 %	100,0 %		5 196	3 665	191	
	Total	1,5 %	1,9 %	485 592	529 159	3 665	191	1,1 %
Retail - Other - SMEs	0,00 -< 0,15	0,0 %	0,0 %		16			
	0,15 -< 0,25	0,2 %	0,2 %	26	33			
	0,25 -< 0,50	0,4 %	0,4 %	2 885	3 299			
	0,50 -< 0,75							
	0,75 -< 2,50	1,4 %	1,4 %	10 708	11 848			
	2,50 -< 10,00	4,9 %	5,2 %		8 190			
	10,00 -< 100,00	22,9 %	21,4 %		3 163			
	100,00	100.0 %	100,0 %		3 112	1 047	468	
	Total	3,5 %	4,8 %		29 661	1 047	468	2,4 %
	rotat	3,3 %	4,0 6	25 903	27 001	1 047	+00	<b>2,4</b> A

In calculating the historical default rate, the Group has used fives years as the average in other exposure classes but three years in exposures secured by real estate property. The classification scale of retail exposures has not been linked to external credit ratings.

a	b	с	d	e		f	g	h	i
					Number	of obligors			Average
				Arithmetic			Defaulted		historical
		External rating	Weighted		End of previous		obligors in the	Of which new	annual
Exposure class	PD Range	equivalent	average PD	obligors	year	End of the year	year	obligors	default rate
Corporates	0,00 -< 0,15	AAABBB+	0,1 %	0,1 %					
	0,15 -< 0,25	BBB	0,2 %	0,2 %	607	590			
	0,25 -< 0,50	BBBBB+	0,4 %	0,4 %	8 427	8 618			
	0,50 -< 0,75	BB+							
	0,75 -< 2,50	BBBB-	1,3 %	1,4 %	8 712	9 084			
	2,50 -< 10,00	B+B	4,5 %	3,2 %		8 537			
	10,00 -< 100,00	BC	20,0 %	22,8 %	1 486				
	100,00	D	100,0 %	100,0 %			223	10	
	Total		1,5 %	2,6 %	29 520	29 716	223	10	1,0 %
a	b	с	d	e		f	g	h	i
					Number	of obligors			Average
				Arithmetic			Defaulted		historical
		External rating	Weighted	average PD by	End of previous		obligors in the	Of which new	annual
Exposure class	PD Range	equivalent	average PD	obligors	year	End of the year	year	obligors	default rate
Corporates - Other	0,00 -< 0,15	AAABBB+	0,1 %	0,1 %					
	0,15 -< 0,25	BBB+BBB	0,2 %	0,2 %					
	0,25 -< 0,50	BBBBB+	0,4 %	0,4 %	1 172	1 287			
	0,50 -< 0,75	BB+BB							
	0,75 -< 2,50	BBBB-	1,4 %	1,4 %					
	2,50 -< 10,00	BBB	4,4 %	3,0 %					
	10,00 -< 100,00	BC	16,5 %	20,4 %					
	100,00	D	100,0 %	100,0 %			45	7	
	Total		1,1 %	2,2 %	5 014	5 374	45	7	0,7 %
Corporates - SMEs	0,00 -< 0,15	AAABBB+	0,1 %	0,1 %	254	206			
	0,15 -< 0,25	BBB+BBB	0,2 %	0,2 %	465	423			
	0,25 -< 0,50	BBBBB+	0,4 %	0,4 %	7 255	7 333			
	0,50 -< 0,75	BB+BB							
	0,75 -< 2,50	BBBB-	1,3 %	1,4 %	7 225	7 403			
	2,50 -< 10,00	BBB	4,5 %	3,2 %	7 022	6 992			
	10,00 -< 100,00	BC	23,8 %	23,2 %	1 327	1 241			
	100,00	D	100,0 %	100,0 %			178	3	
	Total		2,1 %	2,7 %	24 506	24 347	178	3	1,6 %

In the calculation of the historical default rate, the Group has used five years as the average. In corporate exposures, the average PD is around 50% higher than the average historical default rate. The external credit rating equivalent has been presented according to the credit rating by Standard & Poor's.

a	b	с	d	e		f	g	h	i
					Number	of obligors			Average
				Arithmetic			Defaulted		historical
		External rating	Weighted	average PD by	End of previous		obligors in the	Of which new	annual
Exposure class	PD Range	equivalent	average PD	obligors	year	End of the year	year	obligors	default rate
Institutions	0,00 -< 0,15	AAAA	0,0 %	0,1 %	169	160			
	0,15 -< 0,25	A-	0,2 %	0,2 %	27	24			
	0,25 -< 0,50	BBB+BBB-	0,4 %	0,4 %	45	42			
	0,50 -< 0,75	BB+	0,7 %	0,5 %	36	49			
	0,75 -< 2,50	BB+BB	1,3 %	1,6 %	37	21			
	2,50 -< 10,00	BBB-	4,4 %	5,3 %	45	47			
	10,00 -< 100,00	CCC+CC	11,5 %	15,3 %	8	11			
	100,00	D							
	Total		0,1 %	1,4 %	367	354			0,0 %

In the calculation of the historical default rate, the Group has used five years as the average. In credit institution exposures, the average PD is considerably higher than the average historical default rate. The Group applies the definition of default on a customer-specific basis to credit institution exposures. The external credit rating equivalent has been presented according to the credit rating by Standard & Poor's.

# 3 CCR and Market Risk

## 3.1 Analysis of CCR exposure by approach (EU CCR1)

Counterparty credit risk arising from derivative contracts is based on the daily market valuation of derivative contracts.

The size of customer limits are defined on the basis of assets included in derivative contracts and the estimated validity of the contracts.

Counterparty credit risk associated with derivative contracts arises from receivables which OP Financial Group may have from its counterparties in case they default. OP Financial Group measures counterparty risk using a fair value model, whereby the value of exposure comprises the contract market value and the expected potential future exposure. The exposure amount based on the fair value model is used in the calculation of regulatory capital requirement and of economic capital.

The Group confirms corporate counterparty exposure limits once a year and in this connection also checks the status of collateral applying to the limits for derivative transactions.

Credit risk arising from bank counterparties is reduced through collateral, which means the use of ISDA Credit Support Annex (CSA) contract associated with the ISDA general agreement. In the collateral system, the counterparty provides cash or securities in security for the receivable. Collateral matching between counterparties are performed on a daily basis. In respect of guarantees and collateral securities, the Group applies the same practice as in credit risks. The Group ensures sufficient collateral as part of its daily liquidity management through stress tests.

If S&P had downgraded OP Financial Group's credit rating from AA- to A on 31 December 2018, an additional collateral worth EUR 59 million would have been required. If the credit rating had been downgraded in 2017, additional collateral of EUR 7 million would have been required.

Capital adequacy requirement due to counterparty credit risk may arise from items related to banking book and the trading book. Capital adequacy requirement due to counterparty credit risk is calculated, for example, on OTC derivatives and sale and repurchase agreements.

	b	с	f	g
	Replacement			
	cost/current	Potential future		
Net value, 31 Dec. 2018, EUR million	market value	credit exposure	EAD post CRM	RWAs
1 Mark to market	1 236	856	2 090	463

Counterparty credit risk exposures remained at the 2017-end level.

#### 3.2 CVA capital charge (EU CCR2)

a	b
Exposure value	RWAs
400	175
400	175
	400

The average maturity of derivatives decreased, which reduced exposure amounts and thereby risk-weighted assets.

#### 3.3 Standardised approach - CCR exposures by regulatory portfolio and risk (EU CCR3)

	Risk Weight								
Exposure classes, EUR million	0 %	2 %	50 %	100 %	Others	Total	Of which unrated		
1 Central governments or central banks	278					278			
2 Regional government or local authorities	212					212			
3 Public sector entities				1		1	1		
4 Multilateral development banks	102					102	102		
6 Institutions		298				298			
11 Total	591	298		1		889	102		

Exposures for central counterparty clearing are shown in column 2%. Exposure amounts were at the 2017-end level.

## 3.4 IRB approach - CCR exposures by portfolio and PD scale (EU CCR4)

	а	b	с	d	e	f	g
			Number of		Average		
PD scale	EAD post CRM	Average PD	obligors	Average LGD	maturity	RWAs	RWA density
Corporates							
0,00 - < 0,15	249	0,1 %	115	44,7 %	10,1	55	22,0 %
0,15 - < 0,25	111	0,2 %	36	45,0 %	12,8	49	44,5 %
0,25 - < 0,50	79	0,4 %	73	44,9 %	8,0	48	60,5 %
0,75 - < 2,50	84	1,2 %	125	45,0 %	11,4	82	97,4 %
2,50 - < 10,00	19	4,3 %	76	45,0 %	4,1	26	139,3 %
10,00 - < 100,00	8	12,7 %	4	45,0 %	5,5	19	222,4 %
100,00	1	100,0 %	1	45,0 %	9,2		
Total	552	0,9 %	430	44,8 %	10,3	279	50,6 %
	а	b	с	d	e	f	g
			Number of		Average		
PD scale	EAD post CRM	Average PD	obligors	Average LGD	maturity	RWAs	RWA density
Institutions							
0,00 - < 0,15	478	0,1 %	35	19,8 %	6,2	74	15,5 %
0,15 - < 0,25	37	0,2 %	12	18,1 %	5,0	12	32,4 %
0,25 - < 0,50	129	0,4 %	8	32,4 %	10,4	82	63,7 %
0,50 - < 0,75	5	0,7 %	1	45,0 %	2,6	9	167,5 %
Total	649	0,1 %	56	22,4 %	7,0	177	27,3 %

The average risk weights of corporate exposure rose. The average risk weights of credit institution exposures were at the 2017-end level. No information has been presented on retail exposures; the amount of counterparty risk exposures under retail exposures is not material.

# 3.5 Impact of netting and collateral held on exposure values (EU CCR5-A)

	а	b	C	d	е
Net value, 31 Dec. 2018, EUR million	Gross positive fair value	Netting benefits	Netted current credit exposure	Collateral held	Net credit exposure
1 Derivatives 4 Total	3 911 <b>3 911</b>	1 331 <b>1 331</b>	2 580 <b>2 580</b>	490 <b>490</b>	2 090 <b>2 090</b>

The gross positive fair value of derivatives and netting benefits are not comparable due to change in reporting. The amount of collateral increased. Net exposure amounts were at the 2017-end level.

## 3.6 Composition of collateral for exposures to CCR (EU CCR5-B)

	а	b	с	d
		Collateral used	in derivative trans	actions
	Fair value of co	lateral received	Fair value o	of posted collateral
Net value, 31 Dec. 2018, EUR million	Segregated	Unsegregated	Segregated	Unsegregated
1 Cash		490	1	458
2 Sovereign debt			174	244

Collateral given to the central counterparty is segregated. Collateral with other counterparties are unsegregated. The majority of the collateral is cash.

#### 3.7 Credit derivatives exposures (EU CCR6)

	a	b	с
	Credit deri	vative hedges	
Net value, 31 Dec. 2018, EUR million	Protection bought	Protection sold	Other credit derivatives
Notionals			
Index credit default swaps		118	
Other credit derivatives		90	
Total notionals		209	
Fair values		3	
Positive fair value (asset)		6	
Negative fair value (liability)		-3	

The amount of credit derivatives was at the same level as at the end of 2017.

## 3.8 Exposures to CCPs (EU CCR8)

	a	b
Net value, 31 Dec. 2018, EUR million	EAD post CRM	RWAs
1 Exposures to QCCPs (total)	298	6
2 Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	298	6
3 (i) OTC derivatives	298	6
7 Segregated initial margin	175	

The amount of exposures related to the central counterparty rose slightly during the year. The initial margin depends on the risk level of the position; the margin amount increased during the year.

#### 3.9 Market risk under the standardised approach (EU MR1)

	a	b
		Capital
		require-
Net value, 31 Dec. 2018, EUR million	RWAs	ments
Outright products		
1 Interest rate risk (general and specific)	1 041	83
2 Equity risk (general and specific)	0	0
4 Commodity risk	11	1
Options		
6 Delta-plus method	268	21
9 Total	1 319	106

The general risk increased slightly during the year. The specific risk increased slightly due to the position increase and the deterioration of the average credit rating level. The risk-weighted assets based on the Delta-plus method increased slightly.

## 4 Securitisation positions

## 4.1 Securitisation positions

	2018	8	201	7
	F	Risk-weighted		Risk-weighted
Securitisation positions by rating category, Moody's equivalent, EUR million	Exposure	assets	Exposure	assets
Non-trading book positions				
Securitisation positions				
Aaa			488	36
A1-A3	613	46	21	3
Baa1–Baa3			9	3
Total	613	46	518	42

OP Financial Group acts as an investor in the securitisation process and it has no resecuritised positions. Securitised positions did not include past due or impaired receivables.

The IRBA has been applied to securitisation positions. OP Financial Group pays special attention to bonds' structural and collateral-related features in its investment in securitised assets.

OP Financial Group follows regularly changes related to the credit and market risk of securitised loans.

# 5 Scope of application, capital base and countercyclical capital buffer

5.1 Differences between accounting and regulatory scopes of consolidation and the mapping of financial statement categories with regulatory risk categories (EU LI1)

	а	b	с	d	e	f	g
	Carrying values as reported in	Carrying values		Carrying val			Not subject to capital require- ments or
31 Dec 2018, EUR million	published financial statements	under scope of regulatory consolidation	Subject to the credit risk framework	Subject to the CCR framework	Subject to the securitisation framework	Subject to the market risk framework	subject to deduction from capital
Assets							
Cash and cash equivalents	12 350	12 299	12 299				
Receivables from credit institutions	183	181	181				
Derivative contracts	3 482	3 365		3 365		2 916	
Investment assets	22 810	15 454	14 351		613	489	
Assets covering unit-linked contracts	9 771						
Investments in associates	237	75	51				
of which goodwill in associates	24	24					24
Intangible assets	1 490	685					685
Property, plant and equipment (PPE)	737	665	665				
Other assets	2 033	1 452	1 277	175			
of which pension assets	34	34					27
Tax assets	209	157	157				
Total assets	140 382	121 484	116 131	3 541	613	3 405	710
Liabilities							
Liabilities to credit institutions	4 807	4 804					4 804
Derivative contracts	2 821	2 825		2 825			2 825
of which DVA	-26	-26					-21
Liabilities to customers	66 112	66 793					66 793
Insurance liabilities	9 476						
Debt securities issued to the public	30 456	30 598					30 598
Provisions and other liabilities	2 785	2 318					2 318
Tax liabilities	921	735					735
Subordinated liabilities	1 358	1 385					1 385
Total liabilities	128 547	109 460		2 825			109 460
Equity capital							
Share of OP Financial Group's owners							
Cooperative capital							
Cooperative share	199	199					199
Profit share (Non-voting cooperative share)	3 042	3 042					3 042
Fair value reserve	7	6					6
of which cash flow hedge reserve	33	33					33
Other reserves	2 183	2 134					2 134
Retained earnings	6 250	6 643					6 643
Profit for previous financial years	5 879	6 189					6 189
Actuarial gains and losses	-415	-412					-412
Profit for the financial year	786	866					866
Non-controlling interests	154	40.007					42.02/
Total equity capital	11 835 140 382	12 024 121 484		2 825			<u>12 024</u> 121 484
Total liabilities and equity capital	140 382	121 484		2 825			121 484

The differences between the balance sheets of OP Financial Group and the consolidation group are due to differences in the content and extent of consolidation. Within the consolidation group, insurance companies have not been consolidated but are shown in investments made by the consolidation group and the insurance companies' equity capital is not included in the equity capital of the consolidation group. The consolidation group has applied the materiality threshold specified in Article 19 of CRR in the consolidation of its companies. Points 1.1 and 5.4 present items deducted from the capital base.

#### 5.2 Main sources of differences between regulatory exposure amounts and carrying values in financial statements (EU LI2)

	a	b	с	d	e
			Items sub	ject to	
		Credit risk		Securitisation	
31 Dec. 2018, € million	Total	framework	CCR framework	framework	Market risk
1 Assets carrying value amount under the scope of regulatory consolidation (as per template EU LI1)	123 690	116 131	3 541	613	3 405
2 Liabilities carrying value amount under the regulatory scope of consolidation (as per template EU LI1)					
4 Off-balance-sheet amounts	24 004	9 734			
6 Differences due to different netting rules, other than those already included in row 2	-1 451		-1 451		
7 Differences due to consideration of provisions	516	516			
8 Differences due to prudential filters					
9 Other adjustments	-931	-931			
10 Exposure amounts considered for regulatory purposes	145 827	125 449	2 090	613	3 405

In capital adequacy regulation, it is possible to take account of netting on a more extensive basis than in accounting. Given that certain accounting items cannot be unambiguously divided into risk types, these items have been removed from calculation to avoid their overlapping treatment. Of off-balance-sheet items, contractual exposure amount has been presented in column a and in column b exposure amount after applying the credit conversion factor.

# 5.3 Outline of the differences in the scopes of consolidation (entity by entity) (EU LI3)

						,
	а	b	C.	d	e	f
	Method of		Method of regula	tory consolidation Neither	N Supervisor's	
	accounting	Full	Proportional	consolidated	permission to	
Name of the entity	consolidation	consolidation	consolidation	nor deducted	risk weighting	Description of the entity
OP Cooperative	Full consolidation	х				Entity assisting in financial intermediation
OP-Services Ltd	Full consolidation	х				Activities serving financing
OP Customer Services Ltd	Full consolidation	х				Activities serving financing
OP Mortgage Bank	Full consolidation	х				Banking
OP Custody Ltd	Full consolidation	x				Asset management
OP-Card Company Plc	Full consolidation	x				Banking
OP Fund Management Company Ltd	Full consolidation	x				Fund management company
Helsinki Area Cooperative Bank	Full consolidation	х				Banking
Checkout Finland Oy	Full consolidation	х				Activities serving financing
OP Asset Management Ltd	Full consolidation	x				Asset management
Pivo Wallet Oy	Full consolidation	х				Activities serving financing
OP Life Assurance Company Ltd	Full consolidation			х	x	Insurance business
Helsingin OP-Kiinteistökeskus Oy	Full consolidation			х		Real estate agent services
OP Asset Management Execution Services Oy	Full consolidation			x		Activities serving financing and investment
PAM USA Funds Oy	Full consolidation			x		Activities serving financing and investment
OP Property Management Ltd	Full consolidation	х				Real-estate investment operations
Real Estate Fund Finland Oy	Full consolidation			x		Real-estate investment operations
Real Estate Fund of Funds Finland Oy	Full consolidation			x		Real-estate investment operations
Real Estate Fund Finland III GP Oy	Full consolidation			x		Real-estate investment operations
Real Estate Debt And Secondaries GP Oy	Full consolidation			х		Real-estate investment operations
OP Asuntorahasto I GP Oy	Full consolidation			х		Real-estate investment operations
OP Toimitilakiinteistö GP Oy	Full consolidation			х		Real-estate investment operations
OP Rent Oy	Full consolidation			х		Real-estate investment operations
OP Tonttirahasto GP Oy	Full consolidation			х		Real-estate investment operations
Access Capital Partners Group S.A.	Equity method		x			Activities serving financing and investment
PAM USA Fund I Ky				х		Mutual fund business
Oy Kaisaniemenkatu 1	IFRS11		x			Ownership and possession of real estate
Kiinteistö Oy Arkadiankatu 23	IFRS11			x		Ownership and possession of real estate
Kiint. Oy Ansatie 5	IFRS11			x		Ownership and possession of real estate
Kiint. Oy Quartetto Intermezzo	IFRS11			x		Ownership and possession of real estate
Kiint. Oy Uusi Paino	IFRS11			x		Ownership and possession of real estate
Kiinteistö Oy Eteläesplanadi 12	IFRS11			x		Ownership and possession of real estate
Kiinteistö Oy Fenix Terra	IFRS11			x		Ownership and possession of real estate
OP Helsinki property (less than MEUR 10)	IFRS11			x		Ownership and possession of real estate
OP Life Assurance Company's property (less than						
MEUR 10)	IFRS11			x		Ownership and possession of real estate
Automatia Pankkiautomaatit Oy	Equity method		×			Activities serving financing
Finanssi-Kontio Oy	Equity method		×			IT hardware and software consulting
Paja Finanssipalvelut Oy	Equity method		×			Business and other management consultancy activities
Opset Oy				x		Other mail delivery and courier services
Real Estate Fund of Funds II Ky	Full consolidation			x		Property investment
Real Estate Fund Finland III Ky	Full consolidation			x		Property investment
OP-Vallila Rahasto VYM Oy	Full consolidation			x		Property investment
OP-Vallila Rahasto Ky	Full consolidation	х				Property investment
Kiint. Oy Vääksyntie 2	IFRS11		x			Property company
Kiint. Oy Vääksyntie 4	IFRS11		x			Property company
Kiinteistö Oy OPK-Vallila	IFRS11		×			Property company
Aino Holdingyhtiö Ky	Equity method			×		Mutual fund business
Joukahainen Oy	Equity method			x		Asset management
Otso Infrastruktuuri I Ky	Full consolidation			x		Asset management
Real Estate Fund of Funds V Gp Oy	Full consolidation			×		Financial services unclassified elsewhere
Real Estate Fund of Funds V Ky	Equity method			×		Financial services unclassified elsewhere
European Real Estate Senior Debt 1	Full consolidation			x		Financial services unclassified elsewhere
European Real Estate Senior Debt 2	Full consolidation			x		Financial services unclassified elsewhere
European Real Estate Senior Debt 3	Full consolidation			x		Financial services unclassified elsewhere
OP Co-Ride Oy	Full consolidation			x		Rental and lease of cars and light motor vehicles
CapMan Hotels RE Ky	Equity method			x		Buying and selling of own real estate
European Fund Investments II L.P.	Equity method			×		Mutual fund business
HRJ Global Buy-Out III (Asia) L.P.	Equity method			×		Mutual fund business
Certior Credit Opportunities Fund Ky	Equity method			x		Mutual fund business
Certior Credit Investments I Ky	Equity method			×		Mutual fund business
Access Capital Private Debt Fund II Ky	Equity method			×		Mutual fund business
ShipFunk Oy	Equity method			×		Software development and manufacture
OP Corporate Bank plc	Full consolidation	x		^		Banking
OP Finance Estonia AS	Full consolidation	×				Other lending/Leasing company
OP Finance SIA	Full consolidation	×				Other lending/Leasing company
OP Finance JA OP Finance UAB	Full consolidation	×				Other lending/Leasing company
OP Insurance Ltd	Full consolidation	x		v	v	Non-life insurance
A-Insurance Ltd	Full consolidation			×	x x	Non-life insurance Non-life insurance
A-Insurance Ltd Kaivokadun PL-hallinto Oy	Full consolidation			×	x	Non-life insurance No activities
Kaivokadun PL-nailinto Oy Eurooppalainen Insurance Company Ltd	Full consolidation			x		Non-life insurance
Earooppalamen insurance company Llu	า นแ บบทรบแนสปบท			x	х	Medical centres, private doctors and comparable specialist
Pohjola Health Ltd	Full consolidation			x		physician services
Tikkurilan Kauppatalo Oy	IFRS11			×		Property company
Kiint. Oy Helsingin Puutarhurinkuja 2	IFRS11			x		Property company Property company
Kiinteistö Oy Vantaan Kisällintie 13	IFRS11			x		Property company Property company
Kiint. Oy STC Viinikkala	IFRS11			×		Property company Property company
OP Corporate Bank property (less than MEUR 10)	IFRS11			×		Property company
2. Experte Sam property (1035 than HEOR 10)				~		· · · · · · · · · · · · · · · · · ·

# OP Amalgamation Capital Adequacy Report

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OP Insurance property (less than MEUR 10)	IFRS11
Kiint. Oy Grand Cargo Terminal 1	IFRS11
Kiint. Oy Grand Cargo Terminal 2	IFRS11
Kiint. Oy Tampereen Ratinankaari	IFRS11
Kiinteistö Oy Vuosaaren Pohjoinen Ostoskeskus Kiinteistö Oy Kanta-sarvis I	IFRS11 IFRS11
Kiinteistö Oy Koskitammi	IFRS11
Kiinteistö Oy Helsingin Topeliuksenkatu 41b	IFRS11
Kiinteistö Oy Helsingin Franzéninkatu 13	IFRS11
Kiinteistö Oy Turun Joukahaisenkadun Pysäköinti	IFRS11
Kiinteistö Oy Turun Joukahaisenkatu 9	IFRS11
Kiinteistö Oy Oulun Kiilakivi Kiinteistö Oy Kuopion Isabella	IFRS11 IFRS11
Kiinteistö Oy Espoon Siuntiontie 3	IFRS11
Kiinteistö Oy Kanta-Sarvis II	IFRS11
Kiinteistö Oy Asiakkaankatu 3	IFRS11
Kiinteistö Oy Hatanpäänkatu 1	IFRS11
Kiinteistö Oy Tuusulan Jatke	IFRS11
Keskinäinen kiinteistö Oy Marikko Kiinteistö Oy Koivuhaan Yrityskeskus	IFRS11 IFRS11
Kiinteistö Oy Kaarlenkadun Fenno	IFRS11
Prime Property Oy	Full consolidation
Prime DK 1 ApS	Full consolidation
Prime DK 2 ApS	Full consolidation
Akaan Seudun Op	Full consolidation
Alajärven Op Alastaron Op	Full consolidation Full consolidation
Alavieskan Op	Full consolidation
Alavuden seudun Op	Full consolidation
Andelsbanken för Åland	Full consolidation
Andelsbanken Raseborg	Full consolidation
Artjärven Op	Full consolidation
Askolan Op Auranmaan Op	Full consolidation Full consolidation
Etelä-Hämeen Op	Full consolidation
Etelä-Karjalan Op	Full consolidation
Etelä-Pohjanmaan Op	Full consolidation
Euran Op	Full consolidation
Haapamäen Seudun Op	Full consolidation
Hailuodon Op	Full consolidation Full consolidation
Halsuan-Ylipään Op Himangan Op	Full consolidation
Honkilahden Op	Full consolidation
Humppilan Op	Full consolidation
Itä-Uudenmaan Op	Full consolidation
Janakkalan Op	Full consolidation
Jokioisten Op Jämsän Seudun Op	Full consolidation Full consolidation
Järvi-Hämeen Op	Full consolidation
Kainuun Op	Full consolidation
Kalajoen Op	Full consolidation
Kalkkisten Op	Full consolidation
Kangasalan Seudun Op	Full consolidation Full consolidation
Kangasniemen Op Kannuksen Op	Full consolidation
Kemin Seudun Op	Full consolidation
Kerimäen Op	Full consolidation
Keski-Pohjanmaan Op	Full consolidation
Keski-Suomen Op	Full consolidation
Keski-Uudenmaan Op Kesälahden Op	Full consolidation Full consolidation
Kihniön Op	Full consolidation
Kiikoisten Op	Full consolidation
Kiteen Seudun Op	Full consolidation
Koitin-Pertunmaan Op	Full consolidation
Korpilahden Op	Full consolidation
Korsnäs Andelsbank Kronoby Andelsbank	Full consolidation Full consolidation
Kuhmon Op	Full consolidation
Kuortaneen Op	Full consolidation
Kurun Op	Full consolidation
Kuusamon Op	Full consolidation
Kymenlaakson Op	Full consolidation
Kärkölän Op Köyliön Op	Full consolidation Full consolidation
Laihian Op	Full consolidation
Lapin Op	Full consolidation
Lehtimäen Op	Full consolidation
Lemin Op	Full consolidation
Limingan Op	Full consolidation
Liperin Op Loimaan Seudun Op	Full consolidation Full consolidation
Lokalahden Op	Full consolidation
Lounaismaan OP	Full consolidation

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# OP Amalgamation Capital Adequacy Report

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Lounais-Suomen Op
Luhangan Op
Luopioisten Op Luumäen Op
Länsi-Kymen Op
Länsi-Suomen Op
Länsi-Uudenmaan Op
Maaningan Op Mallillia Caudan On
Mellilän Seudun Op Merimaskun Op
Metsämaan Op
Miehikkälän Op
Mouhijärven Op
Multian Op
Mynämäen-Nousiaisten Op Mänteälän On
Mäntsälän Op Nagu Andelsbank
Nakkila-Luvian Op
Niinijoen Op
Nilakan Seudun Op
Nivalan Op
Op Kantrisalo Orimattilan On
Orimattilan Op Oripään Op
Oulaisten Op
Oulun Op
Outokummun Op
Paltamon Op
Parikkalan Op
Pedersörenejdens Andelsbank Perhon Op
Perhonjokilaakson Op
Peräseinäjoen Op
Petäjäveden Op
Pihtiputaan Op
Pohjois-Hämeen Op Pohjois-Karialan Op
Pohjois-Karjalan Op Pohjois-Savon Op
Pohjolan Op
Polvijärven Op
Posion Op
Pudasjärven Op
Pukkilan Op Pulkkilan Op
Punkalaitumen Op
Purmo Andelsbank
Päijät-Hämeen Op
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# OP Amalgamation Capital Adequacy Report

Vampulan Op	Full consolidation	х			Banking
Vehmersalmen Op	Full consolidation	х			Banking
Vesannon Op	Full consolidation	х			Banking
Vihannin Op	Full consolidation	х			Banking
Vimpelin Op	Full consolidation	х			Banking
Virtain Op	Full consolidation	х			Banking
Ylitornion Op	Full consolidation	х			Banking
Ylä-Kainuun Op	Full consolidation	х			Banking
Yläneen Op	Full consolidation	x			Banking
Ylä-Savon Op	Full consolidation	x			Banking
Ypäjän Op	Full consolidation	x			Banking
OP-Kiinteistökeskus real estate agencies around 60	)				
(excl. Helsinki OPKK)	Full consolidation			x	Real estate agent services
Saimaa Capital Oy	Fair value		x		Financial services unclassified elsewhere
Länsi-Suomen Pääomarahasto Oy	Fair value			x	Financial services unclassified elsewhere
Uudenmaan Pääomarahasto Oy	Fair value		x		Financial services unclassified elsewhere
Turun Teknologiakiinteistöt Oy	Equity method		x		Renting and operating other real property
Pohjois-Karjalan Kiinteistöt Oy	IFRS11			x	Renting of residential real estate
Pyhäselän Ranta Oy	IFRS11			х	Buying and selling of own real estate
TOP Rahastosijoitukset Oy	IFRS11			x	Activities of holding companies in the financial sector
Jyväskylän Kassatalo Oy	IFRS11		×		Ownership and possession of real estate
Kiinteistö Oy Vammalan Torikeskus	IFRS11		x		Ownership and possession of real estate
Mikkelin Forum Oy	IFRS11		x		Ownership and possession of real estate
Kiinteistö Oy Tampereen Hämeenkatu 12	IFRS11		×		Ownership and possession of real estate
Kiinteistö Oy Hämeenkivi	IFRS11		×		Ownership and possession of real estate
Kiinteistö Oy Joensuun Koskikatu 9	IFRS11		×		Ownership and possession of real estate
Asunto Oy Oulun Kalevankulma	IFRS11		x		Ownership and possession of real estate
As Oy Lappeenrannan Kirkkokatu 9	IFRS11		x		Ownership and possession of real estate
OP cooperative banks' real estate management			~		ownership and possession of real estate
companies (less than MEUR 10)	IFRS11			x	Property company
companies (1655 trian MEON ±0)				^	r operty company

According to the definition of the consolidation group, insurance companies have not been consolidated into capital adequacy but are treated as investments. Other non-consolidated entities are less than EUR 10 in terms of their balance sheet. There are no investments that are deducted from own funds.

# 5.4 Capital base using formula by the European Banking Authority

According to the European Commission implementing regulation, a credit institution must present its own funds using the model for disclosure for own funds determined by the European Banking Authority.

31 Dec. 2018, EUR million		F	Regulation (EU) No 575/201 Article Reference
Common Equity Tier 1 (CET1) capital: ir	istruments and reserves		
Capital instruments and related	share premium accounts	3 094	26 (1), 27, 28, 29
of which: cooperative shares		199	EBA list, 26 (3)
of which: profit shares (Non-	voting cooperative share)	3 042	EBA list, 26 (3)
of which: cooperative capital	deducted from own funds	-147	
Retained earnings		6 189	26 (1) c
Accumulated other comprehens	ive income (and other reserves)	1 728	26 (1)
a Independently reviewed interim	profits net of any foreseeable charge or dividend	771	26 (2)
CET1 before regulatory adjust	nents:	11 783	
ommon Equity Tier 1 (CET1) capital: r	egulatory adjustments		
Additional value adjustments		-27	34, 105
Intangible assets		-710	36 (1) b, 37
-	ins or losses on cash flow hedges	-33	33 (1) a
	n the calculation of expected loss amounts	-288	36 (1) d, 40, 159
	ed at fair value resulting from changesin own credit standing	-21	33 (1) b
5 Defined benefit pension fund as		-27	36 (1) e, 41
8 Total regulatory adjustments t		-1 106	
Common Equity Tier 1 (CET1)		10 677	
dditional Tier 1 (AT1) capital: instrume			(0( (0)
	red to in Article 484 (4)and the related share premium accounts subject to phase out from AT1.	80	486 (3)
6 Additional Tier 1 (AT1) capital		80	
Additional Tier 1 (AT1) capital: regulato	ry adjustments o Additional Tier 1 (AT1) capital		
<ul> <li>.3 Total regulatory adjustments t</li> <li>.4 Additional Tier 1 (AT1) capital</li> </ul>		80	
5 Tier 1 capital (T1 = CET1 + AT	1)	80 10 757	
ier 2 (T2) capital: Instruments and pro		10 / 5/	
6 Capital instruments and the rela		995	62.63
1 T2 before regulatory adjustme		995	02,00
ier 2 (T2): regulatory adjustments		//5	
7 Total regulatory adjustments t	o Tier 2 (T2) capital		
8 Tier 2 (T2) capital		995	
9 Total capital (TC = T1 + T2)		11 752	
0 Total risk weighted assets		52 126	
apital ratios and buffers			
1 Common Equity Tier 1 (CET1) (a	as a percentage of total risk exposure amount)	20,5	92 (2) a
2 Tier 1 (T1) (as a percentage of t		20,6	92 (2) b
3 Total capital (as a percentage of		22,5	92 (2) c
4 Institution specific buffer require	ement expressed as a percentage of risk exposure amount	9.0 0	RD 128, 129, 130, 131, 13
5 of which: capital conservation		2,5	
6 of which: countercyclical buff		0,0	
	Important Institution (G-SII) of Other Systemically Important Institution (O-SII) buffer	2,0	
	available to meet buffers (as a percentage of risk exposure amount)	2,0	CRD 128
		20,5	CI/D 120
mounts below the thresholds for dedu			
pplicable caps on the inclusion of provi 9 Cap for inclusion of credit risk a		37 724	62
	djustments in T2 under internal ratings-based approach	57724	02
	it arrangements (only applicable between 1 Jan 2014 and 1 Jan 2022)		(0/ //) (0/ /2)/5)
	s subject to phase out arrangements	80	484 (4), 486 (3),(5)
33 Amount excluded from AT1 due	to cap (excess over cap after redemptions and maturities)	1	484 (4), 486 (3),(5)

#### 5.5 Institution-specific countercyclical capital buffer

# Table 1: Geographical distribution of credit exposures relevant for the calculation of the countercyclical capital buffer, EUR million

		General cred	General credit exposures Trading boo		ok exposure	Securitisatio	on exposure
Row		Exposure value for SA 010	Exposure value IRB 020	Sum of long and short position of trading book 030	Value of trading book exposure for internal models 040	Exposure value for SA 050	Exposure value for IRB 060
010	Breakdown by country*						
	Finland	2 424	93 374	397			48
	Sweden	150	659	29			
	Norway	0	185	3			
	Iceland	0	1				
	Czech	0	10				
	Slovakia	0	0				
	United Kingdom	0	34				
	Lithuania	687	104				
	Other	678	1 149	9			565
020	Total	3 940	95 516	437			613

		Own funds requirements					
Row		Of which: General credit exposures 070	Of which: Trading book exposures 080	Of which: Securitisation exposures 090	Total 100	Own funds requirement weights 110	Counter- cyclical capital buffer rate 120
010	Breakdown by country*						
	Finland	2 910	22	0	3 028	0,93	0,00 %
	Sweden	39	2		41	0,01	2,00 %
	Norway	4	0		5	0,00	2,00 %
	Iceland	0			0	0,00	1,25 %
	Czech	1			1	0,00	1,00 %
	Slovakia	0			0	0,00	1,25 %
	United Kingdom	1			1	0,00	1,00 %
	Lithuania	63			63	0,02	0,50 %
	Other	102	1	3	106	0,03	0,00 %
020	Total	3 121	25	4	3 245	1,00	

# Table 2: Amount of institution-specific countercyclical capital buffer

		Column
Row		010
010	Total risk exposure amount	52 126
020	Institution specific countercyclical buffer rate	0,04 %
030	Institution specific countercyclical buffer requirement	20

\* Exposures calculated based on Article 140.4 of the Capital Requirements Directive exclude government exposures, exposures comparable to them and credit institution exposures.

# 6 Leverage

#### 6.1 Leverage

	31 Dec	31 Dec.
Leverage ratio, EUR million	2018	2017
Tier 1 capital (T1)	10 757	9 973
Total exposure	125 510	127 027
Leverage ratio, %	8,6	7,9

The leverage ratio that describes a company's minimum leverage ratio is presented in accordance with Commission Delegated Regulation. According to these rules, the minimum ratio is three per cent. The minimum leverage ratio is based on end of quarter figures.

Table LRSum: Si	ummary reconciliation of accounting assets and leverage ratio exposures	Applicable amount
	assets as per published financial statements	140 382
	, stment for entities which are consolidated for accounting purposes but are outside the scope of regulatory consolidation	-18 898
,	stments for derivative financial instruments	1 331
,	stment for off-balance sheet items (ie conversion to credit equivalent amounts of off-balance sheet exposures)	7 988
-	r adjustments	-5 293
8 Leve	rage ratio total exposure measure	125 510
		CRR leverage
		ratio
	everage ratio common disclosure CRR	exposures
	neet exposures (excluding derivatives and SFTs)	44 ( 227
	alance sheet items (excluding derivatives, SFTs and fiduciary assets, but including collateral)	116 337
	t amounts deducted in determining Tier 1 capital	-1 025
3 Total Derivative exp	l on-balance sheet exposures (excluding derivatives, SFTs and fiduciary assets)	115 312
	acement cost associated with all derivatives transactions (ie net of eligible cash variation margin)	962
	on amounts for PFE associated with all derivatives transactions (mark- to-market method)	1 130
	sted effective notional amount of written credit derivatives	130
· · · · · · · · · · · · · · · · · · ·	sted effective notional offsets and add-on deductions for written credit derivatives)	-14
	derivatives exposures	2 210
	ince sheet exposures	2 210
	alance sheet exposures at gross notional amount	24 004
	stments for conversion to credit equivalent amounts	-16 015
,	r off-balance sheet exposures	7 988
	tal exposure mesure	
•	1 capital	10 757
21 Leve	rage ratio total exposure measure	125 510
Leverage ratio		
22 Leve	rage ratio	8,6
Choice on trar	nsitional arrangements and amount of derecognised fiduciary items	
EU-23 Choic	e on transitional arrangements for the definition of the capital measure	Transitional
		CRR leverage
		ratio
	it-up of on balance sheet exposures (excluding derivatives, SFTs and exempted exposures)	exposures
	on-balance sheet exposures (excluding derivatives, SFTs, and exempted exposures), of which:	116 337
	rading book exposures	496
	anking book exposures, of which:	115 841
EU-4	Covered bonds	6 118
EU-5	Exposures treated as sovereigns	17 630
EU-6	Exposures to regional governments, MDB, international organisations and PSE not treated as sovereigns	247
EU-7	Institutions	549
	Secured by mortgages of immovable properties	45 968
EU-8	Retail exposures	9 487
EU-9		
EU-9 EU-10	Corporate	30 814
EU-9		

Table LRQua: Free format text boxes for disclosure on qualitative items

## 1 Description of the processes used to manage the risk of excessive leverage

By means of ALM and capital management, the Group ensures that leverage will remain controlled in view of maturity transformation and that adequate tools will remain available for leverage management. OP Financial Group has set its capital adequacy target sufficiently high, in which case leverage will not be high or the minimum leverage ratio will not decrease close to the minimum level. The Group monitors leverage by means of its internal target levels for the leverage ratio and of capital adequacy; in addition, the Group monitors, for example, the net stable funding ratio (NSFR) and the asset encumbrance (AE).

#### 2 Description of the factors that had an impact on the leverage Ratio during the period to which the disclosed leverage Ratio refers

Exposures increased less than the capital base. As a result, the leverage ratio rose. The amount of exposures decreased due to specifications of the treatment of off-balance-sheet items. The balance sheet grew in line with the growth targets set for the loan portfolio and the liquidity buffer. The Report by the Executive Board describes changes in the operating environment.

31 March

2018

18 339

2 475

1 566 909

9 650

2 026

6 118

1 507

2 1 3 8

920

112

81

544

14 889

1 071

1 706

13 183

139 %

635

1 105

# 7 Liquidity Coverage Ratio (LCR) and Asset Encumbrance (AE)

#### ro tomplate (FUU01) 711CR dicele

Scope of consolidation Consolidated							
EUR million	-	Fotal unweighted	value (average)			Total weighted va	alue (average)
	31 Dec	30 Sept	30 June	31 March	31 Dec	30 Sept	30 June
Quarter ending on (31, Dec 2018)	2018	2018	2018	2018	2018	2018	2018
Number of data points used in the calculation of averages: 12							
HIGH-QUALITY LIQUID ASSETS							
1 Total high-quality liquid assets (HQLA)					19 603	19 559	19 066
CASH - OUTFLOWS							
2 Retail deposits ande deposits from small business customers, of	42 620	41 810	41 055	40 349	2 635	2 577	2 524
3 stable deposits	32 651	32 185	31 749	31 327	1 633	1 609	1 587
4 Less stable deposits	9 969	9 625	9 306	9 022	1 003	968	936
5 Unsecured wholesale funding	21 859	21 964	21 580	20 967	9 877	10 044	9 819
6 Operational deposits (all counterparties) and deposits in networks of cooperative banks	8 301	8 358	8 380	8 152	2 062	2 077	2 083
7 Non-operational deposits (all counterparties)	11 746	11 863	11 578	11 309	6 004	6 225	6 115
8 Unsecured debt	1 812	1 742	1 621	1 507	1 812	1 742	1 621
9 Secured wholesale funding							
10 Additional requirements	12 639	12 497	12 245	11 904	1 960	2 033	2 110
11 Outflows related to derivative exposures and other collateral requirements	711	808	891	920	711	808	891
12 Outflows related to loss of funding on debt	92	83	92	112	92	83	92
13 Credit and liquidity facilities	11 836	11 605	11 263	10 872	1 157	1 141	1 127
14 Other contractual funding obligations	225	221	202	197	101	98	82
15 Other contingent funding obligations	12 227	12 084	11 918	11 689	572	565	556
16 TOTAL CASH OUTFLOWS					15 146	15 317	15 091
CASH - INFLOWS							
18 Inflows from fully performing exposures	1 959	1 916	1 886	1 875	1 113	1 090	1 077
19 Other cash inflows	1 843	1 886	1 935	1 786	875	782	773
20 TOTAL CASH INFLOWS	3 803	3 802	3 821	3 661	1 988	1 872	1 850
EU-20c Inflows subject to 75% cap	3 803	3 802	3 821	3 661	1 988	1 872	1 850
						TOTAL ADJUS	
21 LIQUIDITY BUFFER					19 603	19 559	19 066
22 TOTAL NET CASH OUTFLOWS 23 LIQUIDITY COVERAGE RATIO (%)					13 158	13 445	13 241

#### 7.2 Disclosure on asset encumbrance

The tables below provide information on asset encumbrance and liabilities related to encumbered assets. The figures are presented as the quarterly median for 2018. An asset is considered encumbered if it has been pledged or given as collateral or they secure transactions recognised in the balance sheet (e.g. to secure debt). Other assets that are not freely available within the Group are also classified as encumbered. Encumbered assets mainly relate to collateral pertaining to OP Corporate Bank plc's derivatives, loans with collateral of central bank refinancing and collateral with respect to covered bonds issued by OP Mortgage Bank. Of the collateral related to covered bonds, EUR 2 142 million is overcollateralised. EUR 8 286 million of unencumbered assets is not eligible as collateral (e.g. intangible assets, and property, plant and equipment, adjusting entries for assets and tax assets).

		010	040	060 Carrying	090
		Carrying		amount of	Fair value of
		amount of	Fair value of	unen-	unen-
		encumbered	encumbered	cumbered	cumbered
EUR mil	lion	assets	assets	assets	assets
010	Assets of the reporting institution	18 917		101 885	
030	Equity instruments			67	
040	Debt securities	2 440	2 439	10 179	10 149
050	of which: covered bonds	1 579	1 579	4 377	4 377
060	of which: asset-backed securities	249	249	331	331
070	of which: issued by general governments	530	528	3 100	3 072
080	of which: issued by financial corporations	1 618	1 618	5 425	5 331
090	of which: issued by non-financial corporations	210	210	1 783	1 783
120	Other assets	16 234		91 520	
121	of which: Loans and advances other than loans on demand	15 677		69 977	

The table below presents collateral received by asset type

	010	040
	Fair value of encumbered collateral received or own debt	Fair value of collateral received or own debt securities issued
Collateral received, EUR million	securities issued	available for encumbrance
130 Collateral received by the reporting institution		460

140 460 Loans on demand 250 TOTAL ASSETS, COLLATERAL RECEIVED AND OWN DEBT SECURITIES ISSUED 18 917

Encumbered assets and collateral received accounted for 15.6 % of the assets of the amalgamation of the Group's member cooperative bank.

		010	030
		Liabilities	
		associated with	
		encumbered	Encumbered
Encumb	bered assets and associated liabilities, EUR million	assets	assets
LITCUITIL	bered assets and associated nationals, bott minion	455665	455665
010	Carrying amount of selected financial liabilities	17 660	
			18 917

# 8 Signatures

The Executive Board confirms that information in this report has been provided in compliance with Part 8 of the CRR and the related EBA guidelines and the report has been prepared applying the principles of capital adequacy disclosure adopted by OP Financial Group's Executive Board. The principles define methods used to verify the accuracy of information to be disclosed and the assessment of the materiality of the information.

Helsinki, 11 February 2019

Executive Board of OP Cooperative

Timo Ritakallio OP Financial Group's President and Group Executive Chairman

Vesa Aho

Olli Lehtilä

Harri Nummela

Katja Keitaanniemi

Tony Vepsäläinen

Juho Malmberg

Tiia Tuovinen

# 9 Requirements

# 9.1 Compliance with disclosure requirements

CRR Article	Reference
31 Scope of disclosure requirements	This const OD Einspein Group's financial statements 2017 and information studies to
	This report, OP Financial Group's financial statements 2017 and information disclosed at www.op
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
	management principles, section 10 and the introduction and point 1.3 of this report Disclosure principles of capital adequacy information approved by OP Financial Group's
	management
	To be delivered on request
32 Non-material, proprietary or confidential information	
-4	Point 9.2
	Information is disclosed on the date of publication of the financial statements. Information disclos
	quarterly and half-yearly is presented in connection with interim reports. The frequency of
33 Frequency of disclosure	disclosure will be assessed according to the disclosure principles of capital adequacy information. www.op.fi
34 Means of disclosures 35 Risk management objectives and policies	www.op.n
אין	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
a)	management principles (EU OVA, EU CRA, EU CCRA, EU MRA, LIQA)
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
b)	management principles, points 2. and 3. (EU OVA, EU CRA, EU CCRA, EU MRA, LIQA)
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
	management principles, point 2.6 (EU OVA, EU CRA, EU CCRA, EU MRA, LIQA) and www.op.fi > C Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance
c)	Statement, point 8.
~,	
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles (EU OVA, EU CRA, EU CCRA, EU MRA, LIQA), and points 2.12. (EU CR3)
d)	and 2.13 of this report.
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
e)	management principles, point 16. (EU OVA, EU CRA, EU CRA, EU MRA, LIQA)
f)	Note 53. to the 2018 financial statements OP Financial Group's risk tolerances
ne EBA's guidelines on LCR disclosure to complement the disclosure of liquidity risk management under Article 435	Point 7.1. (LIQ1) and Note 2. to the 2018 financial statements OP Financial Group's risk and
BA/GL/2017/1)	capital adequacy management principles, especially point 12. (LIQA)
	www.op.fi: OP Financial Group > About us > Corporate governance and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 >
a)-e)	Corporate Governance Statement
36 Scope of application	
	Introduction
	Introduction and points 5.1 (EU LI1), 5.2 (EU LI2) and 5.3 (EU LI3)
	Not applicable. Not applicable.
	Not applicable.
37 Own funds	
a)	Points 1.1 and 5.1. (EU LI1)
(b)	Annex 1. Main features of capital instruments
	The terms and conditions of instruments can be found on the websites of issuers. The terms and
	conditions of CET1 instruments can be found in the bylaws of each Group member cooperative
	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank
	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank
c)	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank website: op.fi > OP Financial Group > Debt Investors, and on the Helsinki Area Cooperative Bank
d)	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank website: op.fi > OP Financial Group > Debt Investors, and on the Helsinki Area Cooperative Bank's website: op.fi > OP Financial Group > About us > Group member cooperative banks > OP Helsinki Points 1.1, 5.1 (EU LI1) and 5.4
d) e)	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank website: op.fi > OP Financial Group > Debt Investors, and on the Helsinki Area Cooperative Bank's website: op.fi > OP Financial Group > About us > Group member cooperative banks > OP Helsinki Points 1.1, 5.1 (EU LI1) and 5.4 Points 1.1 and 5.4
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d) e) f) f) Oommission Implementing Regulation (EU) No 1423/2013 laying down implementing technical standards with regard to	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank website: op.fi > OP Financial Group > Debt Investors, and on the Helsinki Area Cooperative Bank's website: op.fi > OP Financial Group > About us > Group member cooperative banks > OP Helsinki Points 1.1, 5.1 (EU LI1) and 5.4 Points 1.1 and 5.4
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d) e) f) f) ) Commission Implementing Regulation (EU) No 1423/2013 laying down implementing technical standards with regard to sclosure of own funds requirements for institutions according to Regulation (EU) No 575/2013 of the European Parliament nd of the Council	bank on their websites: op.fi > OP Financial Group > About us > Group member cooperative bank The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank website: op.fi > OP Financial Group > Debt Investors, and on the Helsinki Area Cooperative Bank's website: op.fi > OP Financial Group > About us > Group member cooperative banks > OP Helsinki Points 1.1, 5.1 (EU L12) and 5.4 Points 1.1 and 5.4 Not applicable. Points 1.1, 5.1 (EU L11), 5.4 and annex 1. Main features of capital instruments Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
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h)	Point 3.7. (EU CCR6)
i)	Not applicable.
440 Capital buffers	Point 5.5
1a) 1b)	Point 5.5
441 Indicators of global systemic importance	Not applicable
442 Credit risk adjustments	Note 1. to the 2018 financial statements Accounting policies and Note 56. Receivables from credit
a) 	institutions and customers, and doubtful receivables
b) c)	Note 1. to the 2018 financial statements Accounting policies Point 2.1 (EU CRB-B)
d)	Points 2.2 (EU CRB-C) and 2.7 (EU CR1-C)
e)	Points 2.3 (EU CRB-D) and 2.6 (EU CR1-B) Specified material exposure classes.
	Point 2.4 (EU CRB-E)
g) a.	Points 2.5 (EU CR1-A) and 2.6 (EU CR1-B) Points 2.5 (EU CR1-A) and 2.6 (EU CR1-B)
b.	Points 2.5 (EU CR1-A) and 2.6 (EU CR1-B)
<u> </u>	Points 2.5 (EU CR1-A) and 2.6 (EU CR1-B) Point 2.7 (EU CR1-C)
1)	Point 2.10 (EU CR2-A)
	Point 2.10 (EU CR2-A) Point 2.10 (EU CR2-A)
ii.	Point 2.10 (EU CR2-A)
	Point 2.10 (EU CR2-A) Point 2.10 (EU CR2-A)
Specific credit risk adjustments and recoveries recorded directly to the income statement shall be disclosed separately.	Not applicable.
443 Unencumbered assets EBA/GL/2014/03 Guidelines on disclosure of encumbered and unencumbered assets	Point 7.2
EBA/GL/2014/03 Guidelines on disclosure of encumbered and unencumbered assets 444 Use of ECAIs	Funit 7.2
a)	Point 2.15 (EU CRD)
b) c)	Point 2.15 (EU CRD) Point 2.15 (EU CRD)
d)	Not applicable.
e) 445 Exposure to market risk	Points 2.14 (EU CR4) and 2.15 (EU CR5) Points 1.3 and 3.9 (EU MR1)
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
446 Operational risk 447 Exposures in equities not included in the trading book	management principles, section 6 and point 1.3 of this report
a)	Note 1. to the 2018 financial statements Accounting policies
b) c)	Point 2.17 (EU CR10) Point 2.17 (EU CR10)
d)	Note 7. to the 2018 financial statements Net investment income
e) 448 Exposures in equities not included in the trading book	Note 35. to the 2018 financial statements Equity and Note 20. Investment assets
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
a)	management principles, section 13.1 and Note 61. Sensitivity analysis of interest rate and market risk
b)	Note 61. to the 2018 financial statements Sensitivity analysis of interest rate and market risk
449 Exposure to securitisation positions	
a)	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 10.4 to the extent they apply to OP Financial Group.
	Information is available in Note 2. OP Financial Group's risk management and capital adequacy
b)	management principles to the extent they apply to OP Financial Group.
	OP Financial Group has no re-securitised items
c)	OP Financial Group has no re-securitised items.
	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only
c) d)	Information is available in Note 2. OP Financial Group's risk and capital adequacy management
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d)         e)         f)         g)         h)         i)         ii)         ii)         iii)         iii)         iv)         v)         vi         vi         vi         iii)         iii)         iii)         iv)         vi         vi         vi         vi         iii)         iiii         iii         ii	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Not applicable.         Note 2. OP Financial Group's risk and capital adequacy management principles, and point 4.1 of this report         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger </th
d)         e)         f)         g)         h)         j)         i)         ii)         iii)         iii)         v         vi         k         l)         m)         n)         n)	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Not applicable.         Note 2. OP Financial Group's risk and capital adequacy management principles, and point 4.1 of this report.         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger </th
d)         e)         f)         g)         h)         i)         ii)         ii)         iii)         iii)         iv)         v)         vi         vi         vi         iii)         iii)         iii)         iv)         vi         vi         vi         vi         iii)         iiii         iii         ii	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Not applicable.         Note 2. OP Financial Group's risk and capital adequacy management principles, and point 4.1 of this report         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger </th
d)         e)         f)         g)         h)         i)         i)         ii)         iii)         iii)         v         vi         k         i)         ii)         ii)         iii)         ii)         ii)         iii)         iii)         iii)         iii)         iii)         iii)         iii)	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Not applicable.         Not applicable.         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as a arranger
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d)         e)         f)         g)         h)         i)         j)         i)         ii)         iii)         iii<	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Not applicable.         Note 2. OP Financial Group's risk and capital adequacy management principles, and point 4.1 of this report         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger         OP Financial Group does not act as a securitiser         OP Financial Group does not act as a securitise
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d)         e)         f)         g)         h)         i)         ii)         iii)	Information is available in Note 2. OP Financial Group's risk and capital adequacy management principles, section 9.4 to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group. OP Financial Group acts only as an investor.         Information is available in Note 2. OP Financial Group's risk management and capital adequacy management principles to the extent they apply to OP Financial Group as well as point 4.1 in this report.         Not applicable.       Note 2. OP Financial Group's risk management principles, and point 4.1 of this report         OP Financial Group does not act as an arranger       OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger       OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger       OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger       OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger       OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger       OP Financial Group does not act as an arranger         OP Financial Group does not act as an arranger       OP Financial Group does not act as a securitiser         OP Financial Group does not act as a securitiser       OP Financial Group does not act as a securitiser

g)	Not applicable.
<u>d)</u>	Not applicable.
450 Remuneration policy	
1a)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
1b)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration > EBA-report and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
1c)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
1d)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
1e)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
10	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
19)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration > EBA-report
1h)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration > EBA-report and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration
1)	www.op.fi: OP Financial Group > About us > Corporate governance > Remuneration > EBA-report and www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Note 50. to the financial statements Variable remuneration www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Financial Statement's Note 49. Related-party transactions and Note
1) 2)	50. Variable remuneration www.op.fi > OP Financial Group > To the media > Reports > OP's reports > year 2018 > Corporate Governance Statement and Financial Statement's Note 49. Related-party transactions and Note 50. Variable remuneration
2) 451 Leverage	SU. Vanable remuneration
a) b)	Point 6.1
c)	Point 6.1
d) e)	Point 6.1
452 Use of the IRB Approach to credit risk	
a) b)	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10 and the introduction of this report (EU CRE) Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10 and the introduction of this report (EU CRE)
	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10 and the introduction of this report (EU CRE)
ii)	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10. (EU CRE)
iii)	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10. (EU CRE)
iv)	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10. (EU CRE)
<u></u> <u></u>	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10. Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
i)	management principles, section 10. Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
i)	management principles, section 10. Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy
iii)iv)	management principles, section 10. Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10.
v)	Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10.
d)	Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10) Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10)
e)	Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10)
i)	Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10) Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10)
iii)	Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10)
f)g)	Points 2.16 (EU CR6) and 2.17 (EU CR6), (EU CR10) Point 2.5 (EU CR1-A)
h)	Point 2.16 (EU CR6)
	Point 2.20 (EU CR9)
i) ii)	Point 9.2 Point 9.2

When applying the c) above, the description must incorporate the types of exposure included in the exposure class; definitions, techniques and information used in the estimation and validation of PD figures (and, if need be, LGD figures and credit conversion factors) including the assumptions used in the calculation of the variables concerned; description of material deviations from the definition of default under Article 178, including general segments which the deviations concerned affect.

Note 2. to the 2018 financial statements OP Financial Group's risk and capital adequacy management principles, section 10 and point 2.16 of this report (EU CR6)

nd 2.13 nd 2.13

# 9.2 Immaterial items not disclosed

	A total of over 89% of OP Financial Group's exposures are in Finland. The average PD and LGD is
CRR Article 452 j)	not presented according to the split by geographic region.
	The exposure class Retail exposures - Mortgage-backed exposures is not presented with division
	SMEs / non-SMEs because the EAD share of exposures of SMEs with mortgage-backed exposures
Template EU CR6 based on the EBA's guidelines (EBA/GL/2016/11)	account for 2% of the mortgage-backed retail exposures.
	Retail exposures are not presented in the table concerned because they amount to less than EUR
Template EU CCR4 based on the EBA's guidelines (EBA/GL/2016/11)	500,000.
Template EU CRB-D based on the EBA's guidelines (EBA/GL/2016/11)	Material exposure classes are broken down in the table.
	The fixed debenture has not been specified; the amount included in own funds is less than EUR
CRR Article 437 1b) Main features of capital instruments	200,000
Information required on a half-yearly basis by Commission Implementing Regulation (EU) No 1423/2013	No material change
Blank templates and zero lines based on the EBA's guidelines (EBA/GL/2016/11) are not presented.	

				EUR 50,000,000 Non-cumulative Perpetual	EUR 40,000,000 Perpetual Non-Step-Up
Capital	instruments' main features template	Cooperative share	Profit share (Non-voting cooperative share)	Capital Securities	Hybrid Tier 1
1	lssuer	Group member cooperative banks	Group member cooperative banks	OP Corporate Bank plc	OP Corporate Bank plc
2	Unique identifier (e.g. CUSIP, ISIN or Bloomberg identifier	Not applicable	Not applicable	ISIN: XS0213603177	ISIN: XS0237073498
	for private placement)				
3	Governing law(s) of the instrument	Finnish law, especially the Co-operatives Act and	Finnish law, especially the Co-operatives Act and	English law, except for conditions relating to	English law, except for conditions relating to
		the Act on the Amalgamation of Deposit Banks,	the Act on the Amalgamation of Deposit Banks,	creditor order of priority and distributable assets,	creditor order of priority and distributable assets,
		the EU Capital Requirements Regulation	CRR	Dividend Stopper, permission for early	Dividend Stopper, permission for early
		(575/2013 (CRR)		redemption, and to capital adequacy, to which	redemption, and to capital adequacy, to which
				Finnish law is applied	Finnish law is applied
	Regulatory treatment				
4	Transitional CRR rules	Common Equity Tier 1 (CET1)	Common Equity Tier 1 (CET1)	Additional Tier 1 capital (AT1)	Additional Tier 1 capital (AT1)
5	Post-transitional CRR rules	Common Equity Tier 1 (CET1)	Common Equity Tier 1 (CET1)	Not applicable	Not applicable
6	Eligible at solo/(sub-)consolidated/ solo & (sub-)consolidated	Solo and consolidated	Solo and consolidated	Solo and consolidated	Solo and consolidated

1

7	Instrument type (types to be specified by each jurisdiction)	CET1 as published in the EBA list	CET1 as published in the EBA list	Not applicable	Not applicable
8	Amount recognised in regulatory capital (currency as of	196	2 898	41	39
9	most recent reporting date) EUR mln Nominal amount of instrument (in millions)	EUR 196	EUR 2 898	FUR 50	FUR 40
9 9a	Issue price	100 %	LUR 2 898	100 %	100 %
9b	Redemption price	100 %	100 %	100 %	100 %
10	Accounting classification	Central cooperative's share, cooperative capital	Central cooperative's share, cooperative capital	Liability - carried at amortised cost	Liability - carried at amortised cost
11	Original date of issuance	Not applicable	Not applicable	31.3.2005	30.11.2005
12	Perpetual or dated	Perpetual	Perpetual	Perpetual	Perpetual
13	Original maturity date	No maturity	No maturity	No maturity	No maturity
14 15	Issuer call subject to prior supervisory approval Optional call date, contingent call dates and redemption	Yes Cooperative banks refund shareholders their	Yes Cooperative banks refund shareholders the	Yes The issuer has the right to capital payment. Right	Yes
	amount	cooperative contributions upon termination of membership. However, cooperative banks have the right to refuse to refund the contributions	subscription price of their Profit shares upon termination of membership. A Profit share's subscription price is also refunded to the shareholder when the shareholder has cancelled the Profit share. However, cooperative banks have the right to refuse to refund the Profit share contributions while the bank is operating.	to redeem if, owing to (i) change in law, (ii) official interpretation or (iii) Financial Supervisory Authority decision, the issuer cannot include the instrument under its Tier 1 capital; The issuer also has right to early redemption on the basis of such tas kaws and interpretations that would result in the issuer having to pay extra or not being able to deduct interest. Redemption price 100%	the following interest payment dates: 28 February, 30 May, 30 August or 30 November; 2) Right to redeem if, owing to (i) change in law (ii) official interpretation or (iii) Financial
16	Subsequent call dates, if applicable Coupons/dividends	See item 15	See item 15	See item 15	See item 15
17	Fixed or floating dividend/coupon	Floating	Floating	From fixed to floating	Floating
18	Coupon rate and any related index	Not applicable	Not applicable	6.5% per annum until 11 April 2006, after which 10-year Swap interest + 0.1% per annum, maximum interest 8% per annum	
19	Existence of dividend stopper	No	No	Yes	Yes
20a	Fully discretionary, partially discretionary or mandatory (in terms of timing)	Fully discretionary	Fully discretionary	Partially discretionary	Partially discretionary
20ь	Fully discretionary, partially discretionary or mandatory (in terms of amount)	Fully discretionary	Fully discretionary	Partially discretionary:[if the issuer's distributable funds were not be enough for the payment of interest on (i) the instrument, (ii) other subordinated loans or (iii) subordinated loans guaranteed by the issuer.]	Partially discretionary.[if the issuer's distributab funds were not be enough for the payment of interest on (i) the instrument, (ii) other subordinated loans or (iii) subordinated loans guaranteed by the issuer.]
21	Existence of step up or other incentive to redeem	Not applicable	Not applicable	No	No
22	Noncumulative or cumulative	Non-cumulative	Non-cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion triggers	Not applicable	Not applicable	Not applicable	Not applicable
25 26	If convertible, fully or partially If convertible, conversion rate	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable
27	If convertible, mandatory or optional conversion	Not applicable	Not applicable	Not applicable	Not applicable
28	If convertible, specify instrument type convertible into	Not applicable	Not applicable	Not applicable	Not applicable
29	If convertible, specify issuer of instrument it converts into	Not applicable	Not applicable	Not applicable	Not applicable
30	Write-down features	Yes	Yes	Not applicable	Not applicable
31	If write-down, write-down triggers	Accumulation of losses	Accumulation of losses	Not applicable	Not applicable
32	If write-down, full or partial	Full or partial	Full or partial	Not applicable	Not applicable
33 34	If write-down, permanent or temporary If temporary write-down, description of write-up	Temporary Through increase of cooperative capital	Temporary Through increase of cooperative capital	Not applicable Not applicable	Not applicable Not applicable
35	mechanism Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument)	If a cooperative bank is dissolved either through liquidation or bankruptcy, any supplementary cooperative capital is refunded before other cooperative capital or, if the funds are insufficient, that part of supplementary cooperative capital that is proportional to the supplementary cooperative capital paid.	If a cooperative bank is dissolved either through liquidation or bankruptcy, any supplementary cooperative capital is refunded before other cooperative capital or, if the funds are insufficient, that part of supplementary cooperative capital that is proportional to the supplementary cooperative capital paid.	The issuer's Tier 2 instruments and other subordinated debt with a higher priority than the instrument	The issuer's Tier 2 instruments and other subordinated debt with a higher priority than the instrument

 36
 Non-compliant transitioned features

 37
 If yes, specify non-compliant features

No Not applicable

The terms and conditions of CET1 instruments can be found in the bylaws of each Group member cooperative bank on their website: op.fi > OP Financial Group > About us > Group member cooperative banks

Yes Yes No loss cover mechanism and dividend stopper No loss cover mechanism and dividend stopper

No Not applicable

The terms and conditions of AT1 and T2 capital instruments can be found on OP Corporate Bank's website: op.fi > OP Financial Group > Debt Investors, and on the Helsinki OP Bank website: op.fi > OP Financial Group > About us > Group member cooperative banks > OP Helsinki

Capital	instruments' main features template	EUR 500,000,000 Subordinated Instruments due 2022	EUR 100,000,000 5.25 per cent. Subordinated Instruments due 14 September 2021	CHF 100,000,000 3.375 Subordinated Instruments	JPY 10,000,000,000 Subordinated Floating Rate Instruments due 3 July 2025
1	lssuer	OP Corporate Bank plc	OP Corporate Bank plc	OP Corporate Bank plc	OP Corporate Bank plc
2	Unique identifier (e.g. CUSIP, ISIN or Bloomberg identifier	ISIN: XS0750702507 [(EMTN Series 130)]	ISIN: XS0677081993 [(EMTN Series 127)]	ISIN: CH0132112993	ISIN: XS1255402288
	for private placement)				
3	Governing law(s) of the instrument	English law, except for conditions relating to	English law, except for conditions relating to	English law, except for conditions relating to	English law, except for the subordination
		creditor order of priority, to which Finnish law is applied	creditor order of priority, to which Finnish law is applied	creditor order of priority, to which Finnish law is applied	provisions which are governed by Finnish law
	Regulatory treatment				
4	Transitional CRR rules	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)
5	Post-transitional CRR rules	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)
6	Eligible at solo/(sub-)consolidated/ solo & (sub-)consolidated	Solo and consolidated	Solo and consolidated	Solo and consolidated	Solo and consolidated

Instrument type (types to be specified by each jurisdiction)	Not applicable	Not applicable	Not applicable	Not applicable
				Not applicable
Amount recognised in regulatory capital (currency as of	296	54	42	72
most recent reporting date) EUR mln				
Nominal amount of instrument (in millions)	EUR 500	EUR 100	CHF 100	JPY 10 000
Issue price	99.977%	99.612%	100.208%	100 %
Redemption price	100 %	100 %	100 %	100 %
Accounting classification	Liability - carried at amortised cost	Liability - carried at amortised cost	Liability - carried at amortised cost	Liability - carried at amortised cost
Original date of issuance	28.2.2012	14.9.2011	14.7.2011	3.7.2015
Perpetual or dated	Dated	Dated	Dated	Dated
Original maturity date	28.2.2022	14.9.2021	14.7.2021	3.7.2025
Issuer call subject to prior supervisory approval	Yes	Yes	Yes	Yes
Optional call date, contingent call dates and redemption	The issuer has the right of redemption, which	Right to early redemption on the basis of such	Right to early redemption on the basis of such	Right to early redemption on the basis of such
amount	begins on the date of issuance and ends 90	changes in tax laws and interpretations that	changes in tax laws and interpretations that	changes in tax laws and interpretations that
	calendar days after CRD IV entered into force	would result in the issuer having to pay extra.	would result in the issuer having to pay extra.	would result in the issuer having to pay extra.
	and the directive was adopted in Finland,	Redemption price 100%	Redemption price 100%	Redemption price 100%.
	provided the Financial Supervisory Authority			
	and interpretations that would result in the			
	issuer having to pay extra. Redemption price			
	100%			
	most recent reporting datel EUR min Nominal amount of instrument (in millions) Issue price Redemption price Accounting classification Original date of issuance Perpetual or dated Original maturity date Disguer call subject to prior supervisory approval Optional call date, contingent call dates and redemption	most resert, reporting date) EUR min	most resert, reserved, rese	most resert, reporting date  EUR min       EUR 500       EUR 100       CHF 100         save price       99,977%       99.612%       100.208%         Redemption price       100 %       100 %       100 %         Recounting classification       Lability - carried at amortised cost         Original date of fisuance       28.2.2012       1.4.9.2011       14.7.2011         Perpetual or dated       Dated       Dated       Dated         Original maturity date       28.2.2022       1.4.9.2021       14.7.2021         Specification amount       Even she right of redemption, which beings on the date of issuance and networks of issuance and networes of

		6 N 45	6 h 45	6 h 45	6 h 45
16	Subsequent call dates, if applicable	See item 15	See item 15	See item 15	See item 15
	Coupons/dividends				
17	Fixed or floating dividend/coupon	Fixed	Fixed	Fixed	Floating
18	Coupon rate and any related index	5.75% per annum	5.25% per annum	3.375% per annum	3-month JPY Libor + 0.735% per annum
19	Existence of dividend stopper	No	No	No	No
20a	Fully discretionary, partially discretionary or mandatory (in	Mandatory	Mandatory	Mandatory	Mandatory
	terms of timina)				
20b	Fully discretionary, partially discretionary or mandatory (in	Mandatory	Mandatory	Mandatory	Mandatory
	terms of amount)				

21	Existence of step up or other incentive to redeem	No	No	No	No
22	Noncumulative or cumulative	Non-cumulative	Non-cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion triggers	Not applicable	Not applicable	Not applicable	Not applicable
25	If convertible, fully or partially	Not applicable	Not applicable	Not applicable	Not applicable
26	If convertible, conversion rate	Not applicable	Not applicable	Not applicable	Not applicable
27	If convertible, mandatory or optional conversion	Not applicable	Not applicable	Not applicable	Not applicable
28	If convertible, specify instrument type convertible into	Not applicable	Not applicable	Not applicable	Not applicable
29	If convertible, specify issuer of instrument it converts into	Not applicable	Not applicable	Not applicable	Not applicable
30	Write-down features	Not applicable	Not applicable	Not applicable	Not applicable
31	If write-down, write-down triggers	Not applicable	Not applicable	Not applicable	Not applicable
32	If write-down, full or partial	Not applicable	Not applicable	Not applicable	Not applicable
33	If write-down, permanent or temporary	Not applicable	Not applicable	Not applicable	Not applicable
34	If temporary write-down, description of write-up	Not applicable	Not applicable	Not applicable	Not applicable
	mechanism				
35	Position in subordination hierarchy in liquidation (specify	Issuer's senior instruments	Issuer's senior instruments	Issuer's senior instruments	Issuer's senior instruments

Instrument in subordination hierarchy in liquidation (specify Issuer's senior instruments instrument type immediately senior to instrument)

Non-compliant transitioned features If yes, specify non-compliant features 36 37

No Not applicable

No Not applicable

No Not applicable

No Not applicable

Capital instruments' ma	in features template	SEK 3,500,000,000 Callable Floating Rate Dated Tier 2 Instruments due 2025	EUR 100,000,000 2.405 per cent Dated Tier 2 Instruments due 2025	Helsinki OP Fixed Debenture 1/2014	Helsinki OP Fixed Debenture 2/2014
1 Issuer 2 Unique identifier for private placer	(e.g. CUSIP, ISIN or Bloomberg identifier ment)	OP Corporate Bank plc ISIN: XS1280147569	OP Corporate Bank plc ISIN: XS1296897579	Helsinki Area Cooperative Bank ISIN: FI4000090360	Helsinki Area Cooperative Bank ISIN: FI4000096938
3 Governing law(s)	of the instrument	English law, except for the subordination provisions which are governed by Finnish law	English law, except for the subordination provisions which are governed by Finnish law	Finnish law	Finnish law

	Regulatory treatment				
4	Transitional CRR rules	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)
5	Post-transitional CRR rules	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)
6	Eligible at solo/(sub-)consolidated/ solo & (sub-)consolidated Solo and consolidated		Solo and consolidated	Solo and consolidated	Solo and consolidated

7	Instrument type (types to be specified by each jurisdiction)	Not applicable	Not applicable	Not applicable	Not applicable
8	Amount recognised in regulatory capital (currency as of	371	100	11	11
	most recent reporting date) EUR mln				
9	Nominal amount of instrument (in millions)	SEK 3 500	EUR 100	EUR 11	EUR 11
9a	Issue price	100 %	100 %	100 %	100 %
9b	Redemption price	100 %	100 %	100 %	100 %
10	Accounting classification	Liability - carried at amortised cost	Liability - carried at amortised cost	Liability - carried at amortised cost	Liability - carried at amortised cost
11	Original date of issuance	25.8.2015	25.9.2015	14.5.2014	18.6.2014
12	Perpetual or dated	Dated	Dated	Dated	Dated
13	Original maturity date	25.8.2025	25.9.2025	14.5.2024	18.6.2024
14	Issuer call subject to prior supervisory approval	Yes	Yes	Yes	Yes
15	Optional call date, contingent call dates and redemption	The issuer's opportunity to redeem on 25	The right of redemption at nominal value at any	The debenture is refunded in full in one	The debenture is refunded in full in one
	amount	August 2020. The right of redemption at	time due during the loan term due to a capital	instalment on 14 May 2024, on early refund	instalment on 18 June 2024, on early refund
		nominal value at any time due during the loan	transaction or taxable event. Right to early	date on 14 May 2019 or on the date specified in	date on 18 June 2019 or on the date specified
		term due to a capital transaction or taxable	redemption on the basis of such changes in tax	the issuer's general loan terms. Amount to be	in the issuer's general loan terms. Amount to be
		event. Right to early redemption on the basis of	laws and interpretations that would result in the	-	refunded: Nominal value
		such changes in tax laws and interpretations that		retariaca. Horinia valac	reranded. Hommar value
		would result in the issuer having to pay extra.	100%.		
			100%.		
		Redemption price 100%.			

16	Subsequent call dates, if applicable	See item 15	See item 15	See item 15	See item 15
	Coupons/dividends				
17	Fixed or floating dividend/coupon	Floating	Fixed	Fixed	From fixed to floating
18	Coupon rate and any related index	3-month Stibor + 1.6 % per annum. Minimum	2.405% per annum	3.25% per annum	3.25% per annum until 18 June 2019, after
		interest rate of 0% per annum			which 6-month EURIBOR + 2.54.% per annum
19	Existence of dividend stopper	No	No	No	No
~ ~					
20a	Fully discretionary, partially discretionary or mandatory (in	Mandatory	Mandatory	Mandatory	Mandatory
20a	Fully discretionary, partially discretionary or mandatory (in terms of timing)	Mandatory	Mandatory	Mandatory	Mandatory
20a 20b		-	Mandatory Mandatory	Mandatory Mandatory	Mandatory Mandatory

21	Existence of step up or other incentive to redeem	No	No	No	No
22	Noncumulative or cumulative	Non-cumulative	Non-cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion triggers	Not applicable	Not applicable	Not applicable	Not applicable
25	If convertible, fully or partially	Not applicable	Not applicable	Not applicable	Not applicable
26	If convertible, conversion rate	Not applicable	Not applicable	Not applicable	Not applicable
27	If convertible, mandatory or optional conversion	Not applicable	Not applicable	Not applicable	Not applicable
28	If convertible, specify instrument type convertible into	Not applicable	Not applicable	Not applicable	Not applicable
29	If convertible, specify issuer of instrument it converts into	Not applicable	Not applicable	Not applicable	Not applicable
30	Write-down features	Not applicable	Not applicable	Not applicable	Not applicable
31	If write-down, write-down triggers	Not applicable	Not applicable	Not applicable	Not applicable
32	If write-down, full or partial	Not applicable	Not applicable	Not applicable	Not applicable
33	If write-down, permanent or temporary	Not applicable	Not applicable	Not applicable	Not applicable
34	If temporary write-down, description of write-up	Not applicable	Not applicable	Not applicable	Not applicable
	mechanism				
35	Position in subordination hierarchy in liquidation (specify	Issuer's senior instruments	Issuer's senior instruments	Debentures are debt instruments that have	Debentures are debt instruments that have
	instrument type immediately senior to instrument)			lower priority belonging to Tier 2 capital as	lower priority belonging to Tier 2 capital as
				specified in Article 63 of Regulation No.	specified in Article 63 of Regulation No.
				575/2013 of the European Parliament and of	575/2013 of the European Parliament and of
					the Council, provided the other conditions in the
					article are met. The debenture has lower priority
				than the issuer's other commitments. The	than the issuer's other commitments. The
				debenture cannot be used to set off counter	debenture cannot be used to set off counter
				receivables.	receivables.
36	Non-compliant transitioned features	No	No	No	No
37	If yes, specify non-compliant features	Not applicable	Not applicable	Not applicable	Not applicable

Capita	instruments' main features template	Helsinki OP Fixed Debenture 3/2014	Helsinki OP Fixed Debenture 4/2014	Helsinki OP Fixed Debenture 5/2014	Helsinki OP Fixed Debenture 6/2014
1 2	Issuer Unique identifier (e.g. CUSIP, ISIN or Bloomberg identifier for private placement)	Helsinki Area Cooperative Bank FI4000100409	Helsinki Area Cooperative Bank FI4000106398	Helsinki Area Cooperative Bank FI4000113063	Helsinki Area Cooperative Bank FI4000115530
3	Governing law(s) of the instrument	Finnish law	Finnish law	Finnish law	Finnish law

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	Regulatory treatment				
4	Transitional CRR rules	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)
5	Post-transitional CRR rules	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)	Tier 2 Capital (T2)
6	Eligible at solo/(sub-)consolidated/ solo & (sub-)consolidate	d Solo and consolidated	Solo and consolidated	Solo and consolidated	Solo and consolidated

7	Instrument type (types to be specified by each jurisdiction)	Not applicable	Not applicable	Not applicable	Not applicable
8	Amount recognised in regulatory capital (currency as of	6	11	12	8
	most recent reporting date) EUR mln				
9	Nominal amount of instrument (in millions)	EUR 6	EUR 11	EUR 12	EUR 8
9a	Issue price	100 %	100 %	100 %	100 %
9b	Redemption price	100 %	100 %	100 %	100 %
10	Accounting classification	Liability - carried at amortised cost	Liability - carried at amortised cost	Liability - carried at amortised cost	Liability - carried at amortised cost
11	Original date of issuance	22.8.2014	10.10.2014	14.11.2014	29.12.2014
12	Perpetual or dated	Dated	Dated	Dated	Dated
13	Original maturity date	22.8.2024	10.10.2024	14.11.2024	29.12.2024
14	Issuer call subject to prior supervisory approval	Yes	Yes	Yes	Yes
15	Optional call date, contingent call dates and redemption	The debenture is refunded in full in one	The debenture is refunded in full in one	The debenture is refunded in full in one	The debenture is refunded in full in one
	amount	instalment on 22 August 2024, on early refund	instalment on 10 October 2024, on early refund	instalment on 14 November 2024, on early	instalment on 29 December 2024, on early
		date on 22 August 2019 or on the date specified	date on 10 October 2019 or on the date	refund date on 14 November 2019 or on the	refund date on 29 December 2019 or on the
		in the issuer's general loan terms. Amount to be	specified in the issuer's general loan terms.	date specified in the issuer's general loan terms.	date specified in the issuer's general loan terms.
		refunded: Nominal value	Amount to be refunded: Nominal value	Amount to be refunded: Nominal value	Amount to be refunded: Nominal value

16	Subsequent call dates, if applicable	See item 15	See item 15	See item 15	See item 15
	Coupons/dividends				
17	Fixed or floating dividend/coupon	From fixed to floating	From fixed to floating	From fixed to floating	From fixed to floating
18	Coupon rate and any related index	3.25% per annum until 22 August 2019, after	3.25% per annum until 10 October 2019, after	3.25% per annum until 14 November 2019,	3.25% per annum until 29 December 2019, after
		which 6-month EURIBOR + 2.67% per annum	which 6-month EURIBOR + 2.78% per annum	after which 6-month EURIBOR + 2.81% per	which 6-month EURIBOR + 2.86% per annum
				annum	
19	Existence of dividend stopper	No	No	No	No
19 20a	Existence of dividend stopper Fully discretionary, partially discretionary or mandatory (in		No Mandatory		No Mandatory
			No Mandatory	No	
	Fully discretionary, partially discretionary or mandatory (in	Mandatory	No Mandatory Mandatory	No	

21	Existence of step up or other incentive to redeem	No	No	No	No
22	Noncumulative or cumulative	Non-cumulative	Non-cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion triggers	Not applicable	Not applicable	Not applicable	Not applicable
25	If convertible, fully or partially	Not applicable	Not applicable	Not applicable	Not applicable
26	If convertible, conversion rate	Not applicable	Not applicable	Not applicable	Not applicable
27	If convertible, mandatory or optional conversion	Not applicable	Not applicable	Not applicable	Not applicable
28	If convertible, specify instrument type convertible into	Not applicable	Not applicable	Not applicable	Not applicable
29	If convertible, specify issuer of instrument it converts into	Not applicable	Not applicable	Not applicable	Not applicable
30	Write-down features	Not applicable	Not applicable	Not applicable	Not applicable
31	lf write-down, write-down triggers	Not applicable	Not applicable	Not applicable	Not applicable
32	lf write-down, full or partial	Not applicable	Not applicable	Not applicable	Not applicable
33	If write-down, permanent or temporary	Not applicable	Not applicable	Not applicable	Not applicable
34	If temporary write-down, description of write-up	Not applicable	Not applicable	Not applicable	Not applicable
	mechanism				
35	Position in subordination hierarchy in liquidation (specify	Debentures are debt instruments that have	Debentures are debt instruments that have	Debentures are debt instruments that have	Debentures are debt instruments that have
	instrument type immediately senior to instrument)	lower priority belonging to Tier 2 capital as	lower priority belonging to Tier 2 capital as	lower priority belonging to Tier 2 capital as	lower priority belonging to Tier 2 capital as
		specified in Article 63 of Regulation No.	specified in Article 63 of Regulation No.	specified in Article 63 of Regulation No.	specified in Article 63 of Regulation No.
		575/2013 of the European Parliament and of	575/2013 of the European Parliament and of	575/2013 of the European Parliament and of	575/2013 of the European Parliament and of
		the Council, provided the other conditions in the			the Council, provided the other conditions in the
		than the issuer's other commitments. The	than the issuer's other commitments. The	than the issuer's other commitments. The	than the issuer's other commitments. The
		debenture cannot be used to set off counter	debenture cannot be used to set off counter	debenture cannot be used to set off counter	debenture cannot be used to set off counter
		receivables.	receivables.	receivables.	receivables.
36	Non-compliant transitioned features	No	No	No	No
37	If yes, specify non-compliant features	Not applicable	Not applicable	Not applicable	Not applicable