



## Transparency requirements §28 PfandBG Q2/2024 Sparkassen

NORD/LB Floor Research

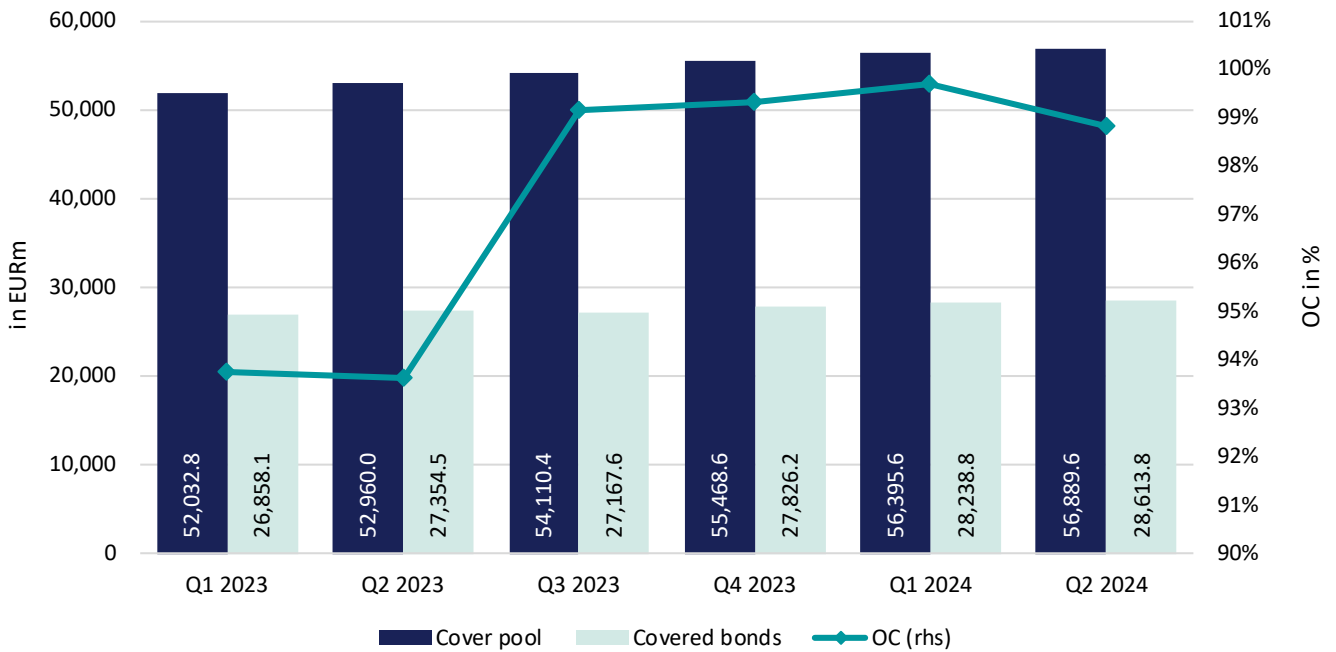
# Agenda

Authors: Alexander Grenner // Dr Frederik Kunze // Lukas Kühne

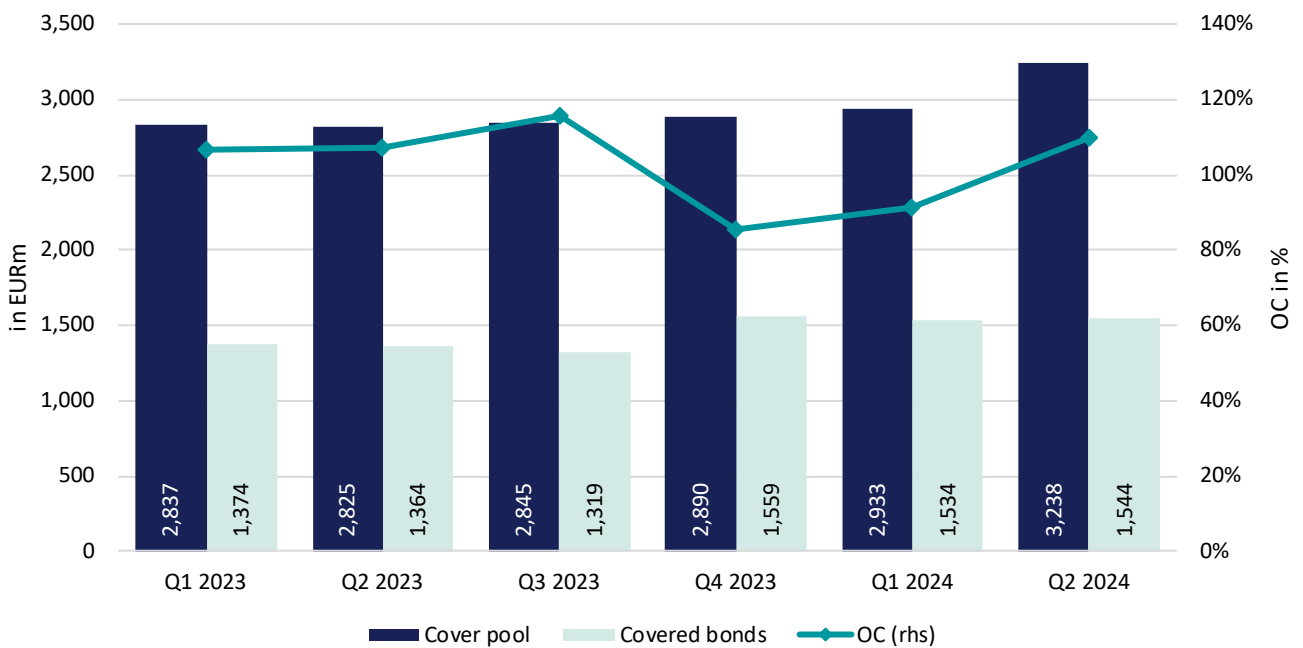
<b>Market Overview</b>	<b>3</b>
<b>Cover Pool Data</b>	
Sparkasse Aachen	6
Kreissparkasse Böblingen	8
Die Sparkasse Bremen AG	9
Sparkasse Dortmund	10
Sparkasse Elmshorn	11
Kreissparkasse Esslingen-Nürtingen	12
Sparkasse Essen	13
Förde Sparkasse	14
Sparkasse Fürstenfeldbruck	15
Kreissparkasse Göppingen	16
Sparkasse Hanau	18
Sparkasse Hannover	20
Sparkasse Harburg-Buxtehude	22
Hamburger Sparkasse AG	23
Kreissparkasse Heilbronn	24
Sparkasse Herford	25
Sparkasse Holstein	27
Sparkasse Krefeld	29
Kreissparkasse Köln	30
Sparkasse Kulmbach-Kronach	32
Kreissparkasse Herzogtum Lauenburg	33
Sparkasse Leverkusen	34
Kreissparkasse Ludwigsburg	35
Sparkasse zu Lübeck AG	36
Sparkasse Mittelholstein AG	37
Sparkasse Mittelthüringen	38
Stadtsparkasse Mönchengladbach	40
Stadtsparkasse München	41
Sparkasse Münsterland Ost	42
Nassauische Sparkasse	43
Sparkasse Neuss	45
Niederrheinische Sparkasse RheinLippe	47
Nord-Ostsee Sparkasse	48
Sparkasse Nürnberg	49
Landessparkasse zu Oldenburg	50
Sparkasse Pforzheim Calw	51
Sparkasse Rosenheim-Bad Aibling	52
Sparkasse Südholstein	53
Sparkasse KölnBonn	54
Stadtsparkasse Düsseldorf	55
Taunus Sparkasse	57
Weser-Elbe Sparkasse	58
Sparkasse Westmünsterland	59
Stadtsparkasse Wuppertal	60

## Market Overview

### Market development: mortgage covered bonds



### Market development: public sector covered bonds



## Market overview: mortgage covered bonds

Issuer	Cover pool in EURm	Pfandbrief volume in EURm	OC		Cover type (in %)			DE share (in %)
			in EURm	in %	Residential	Commercial	Others	Primary assets
Sparkasse Aachen	859	325	534	164.5	96.0%	1.7%	2.3%	100.0%
Kreissparkasse Böblingen	1,712	1,435	277	19.3	93.7%	4.0%	2.3%	100.0%
Die Sparkasse Bremen AG	1,133	955	178	18.6	64.7%	32.6%	2.7%	100.0%
Sparkasse Dortmund	927	580	347	59.8	81.7%	15.5%	2.8%	100.0%
Sparkasse Elmshorn	139	61	78	128.3	97.7%	0.0%	2.3%	100.0%
Kreissparkasse Esslingen-Nürtingen	690	547	143	26.1	91.6%	4.0%	4.3%	100.0%
Sparkasse Essen	1,054	640	414	64.6	89.7%	3.6%	6.6%	100.0%
Förde Sparkasse	273	136	137	100.7	89.5%	3.3%	7.1%	100.0%
Sparkasse Fürstenfeldbruck	300	226	74	32.7	87.5%	4.8%	7.7%	100.0%
Kreissparkasse Göppingen	654	435	219	50.2	79.4%	9.9%	10.7%	100.0%
Sparkasse Hanau	611	457	154	33.7	91.9%	3.2%	4.9%	100.0%
Sparkasse Hannover	3,051	2,159	893	41.3	80.5%	14.9%	4.6%	100.0%
Sparkasse Harburg-Buxtehude	266	75	191	254.1	91.3%	0.0%	8.7%	100.0%
Hamburger Sparkasse AG	8,618	5,504	3,114	56.6	67.0%	28.9%	4.1%	100.0%
Kreissparkasse Heilbronn	1,476	1,229	248	20.2	87.2%	4.3%	8.5%	100.0%
Sparkasse Herford	248	20	228	1,138.4	99.0%	0.1%	0.9%	100.0%
Sparkasse Holstein	1,417	951	465	48.9	59.3%	37.4%	3.3%	100.0%
Sparkasse Krefeld	861	220	641	291.5	94.1%	1.8%	4.1%	100.0%
Kreissparkasse Köln	6,635	885	5,751	650.2	87.2%	11.3%	1.5%	100.0%
Sparkasse Kulmbach-Kronach	55	29	27	93.9	83.3%	0.0%	16.7%	100.0%
Kreissparkasse Herzogtum Lauenburg	799	657	142	21.6	84.9%	12.5%	2.6%	100.0%
Sparkasse Leverkusen	680	588	92	15.7	86.9%	7.2%	5.9%	100.0%
Kreissparkasse Ludwigsburg	1,651	830	821	99.0	79.6%	14.5%	5.9%	100.0%
Sparkasse zu Lübeck AG	766	515	251	48.7	78.0%	19.4%	2.6%	100.0%
Sparkasse Mittelholstein AG	68	45	23	51.8	85.4%	10.2%	4.4%	100.0%
Sparkasse Mittelthüringen	101	70	31	44.7	88.1%	9.1%	2.8%	100.0%
Stadtsparkasse München	1,415	715	700	97.9	89.0%	6.6%	4.5%	100.0%
Sparkasse Münsterland Ost	969	458	511	111.6	69.9%	22.3%	7.7%	100.0%
Nassauische Sparkasse	1,071	558	513	92.0	78.3%	10.5%	11.2%	100.0%
Sparkasse Neuss	592	160	432	269.9	87.3%	10.4%	2.4%	100.0%
Niederrheinische Sparkasse RheinLippe	80	10	70	696.6	88.7%	0.0%	11.3%	100.0%
Nord-Ostsee Sparkasse	511	296	215	72.7	83.9%	11.1%	4.9%	100.0%
Sparkasse Nürnberg	570	206	364	176.7	91.3%	4.3%	4.3%	100.0%
Landessparkasse zu Oldenburg	195	55	140	254.9	97.4%	0.0%	2.6%	100.0%
Sparkasse Pforzheim Calw	3,002	2,303	699	30.3	83.3%	12.5%	4.2%	100.0%
Sparkasse Rosenheim-Bad Aibling	292	120	172	143.5	94.2%	0.0%	5.8%	100.0%
Sparkasse Südholstein	535	406	129	31.9	92.2%	3.2%	4.6%	100.0%
Sparkasse KölnBonn	8,259	1,292	6,967	539.3	72.1%	21.1%	6.8%	100.0%
Stadtsparkasse Düsseldorf	1,781	1,136	645	56.7	71.9%	22.8%	5.3%	100.0%
Taunus Sparkasse	1,082	673	409	60.7	75.6%	16.3%	8.0%	100.0%
Weser-Elbe Sparkasse	288	156	132	85.0	89.1%	6.8%	4.1%	100.0%
Sparkasse Westmünsterland	589	302	287	95.0	95.9%	0.0%	4.1%	100.0%
Stadtsparkasse Wuppertal	615	196	419	214.0	82.9%	13.9%	3.3%	100.0%

Source: vdp/DSGV, NORD/LB Floor Research

## Market overview: public sector covered bonds

Issuer	Cover pool in EURm	Pfandbrief volume in EURm	OC		Cover type					DE share
			in EURm	in %	Central government	Regional authorities	Local authorities	Other debtors	Others	Primary assets
Sparkasse Aachen	257	106	151	141.7	0.0%	15.6%	84.4%	0.0%	0.0%	100.0%
Kreissparkasse Göppingen	83	35	48	137.7	0.0%	0.0%	21.1%	51.2%	27.7%	100.0%
Sparkasse Hanau	279	235	44	18.7	0.0%	24.9%	64.7%	3.2%	7.2%	100.0%
Sparkasse Hannover	1,733	846	887	104.8	3.0%	10.2%	76.1%	8.9%	1.8%	96.1%
Sparkasse Herford	98	15	83	555.2	0.0%	2.2%	85.5%	12.4%	0.0%	100.0%
Sparkasse Holstein	105	20	85	423.2	1.0%	40.4%	49.7%	8.9%	0.0%	99.0%
Kreissparkasse Köln	283	153	130	84.4	26.9%	0.0%	48.9%	24.2%	0.0%	89.0%
Sparkasse Mittelthüringen	61	25	36	144.8	0.0%	21.8%	26.3%	51.9%	0.0%	100.0%
Stadtsparkasse Mönchengladbach	58	25	33	132.0	0.0%	75.9%	0.0%	24.1%	0.0%	100.0%
Nassauische Sparkasse	83	53	30	56.9	0.0%	26.5%	73.5%	0.0%	0.0%	100.0%
Sparkasse Neuss	113	10	103	1,030.5	0.9%	0.0%	99.1%	0.0%	0.0%	100.0%
Stadtsparkasse Düsseldorf	84	20	64	321.7	0.0%	0.0%	62.7%	37.3%	0.0%	100.0%

Source: vdp/DSGV, NORD/LB Floor Research

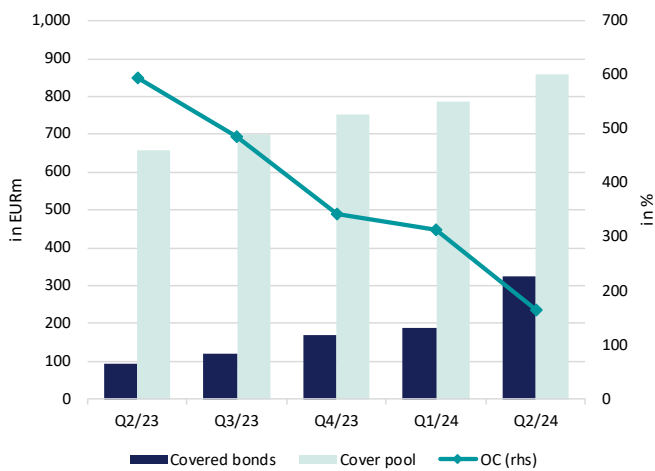
## Sparkasse Aachen

## Mortgage

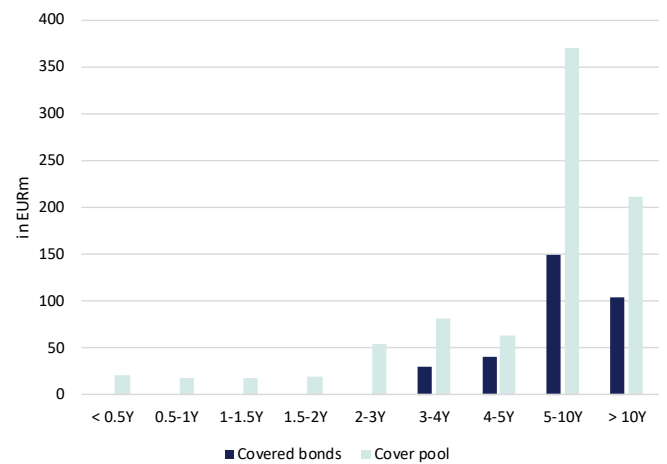
### Cover pool data

Cover pool (EURm)	858.9	Fixed interest (Cover pool)	99.6%
of which residential	96.0%	Fixed interest (Covered bonds)	100.0%
of which commercial	1.7%	Avg. LTV (Mortgage lending value)	55.9%
of which substitution assets	2.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	324.7	Share of largest exposure tranche	79.6% (< EUR 0.3m)
OC (EURm)	534.2	Avg. seasoning	4.2y
OC	164.5%	Loans in arrears (>90 days)	0.00%

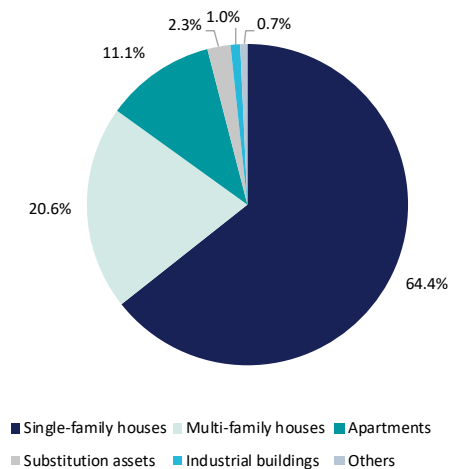
### Development of cover pool data



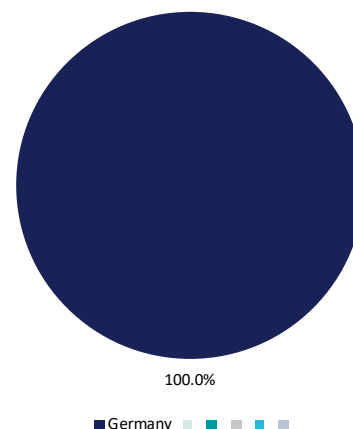
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



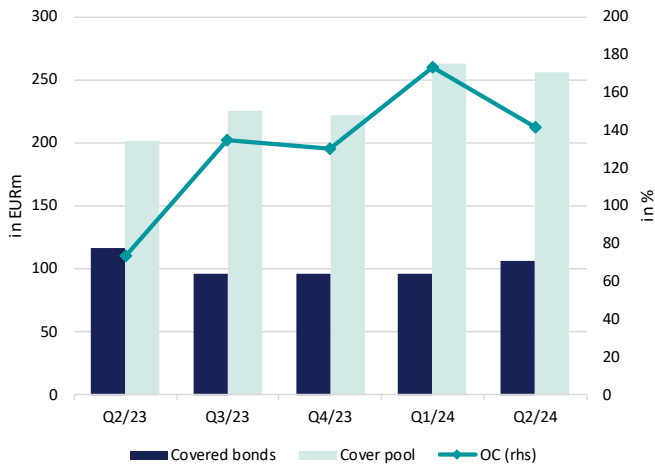
## Sparkasse Aachen

## Public sector

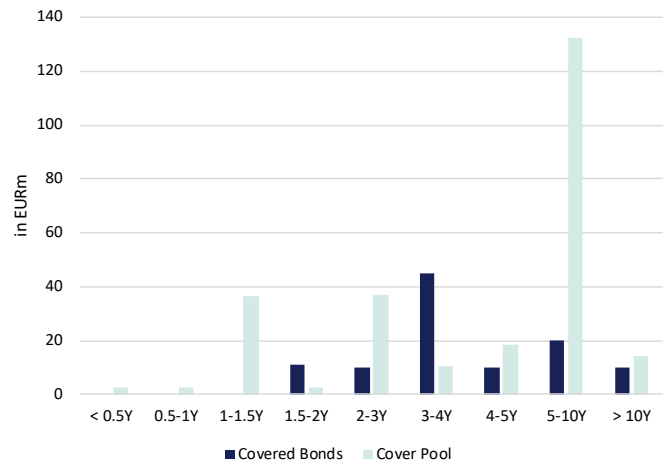
### Cover pool data

Cover pool (EURm)	256.7	Fixed interest (Cover pool)	90.3%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	106.2	Share of largest exposure tranche	91.0% (EUR 10-100m)
OC (EURm)	150.5	Loans in arrears (>90 days)	0.00%
OC	141.7%		

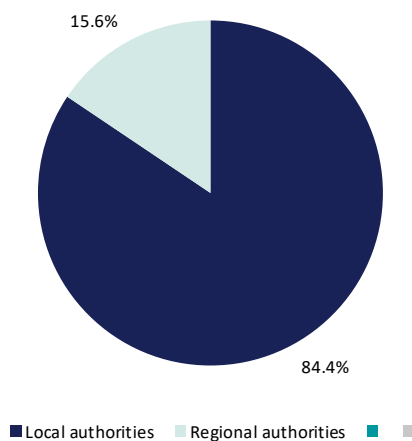
### Development of cover pool data



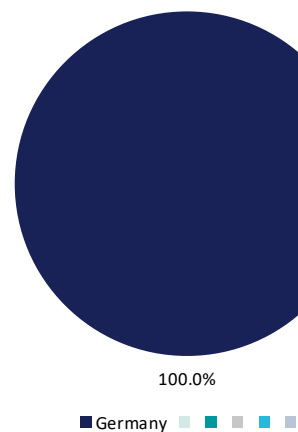
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research

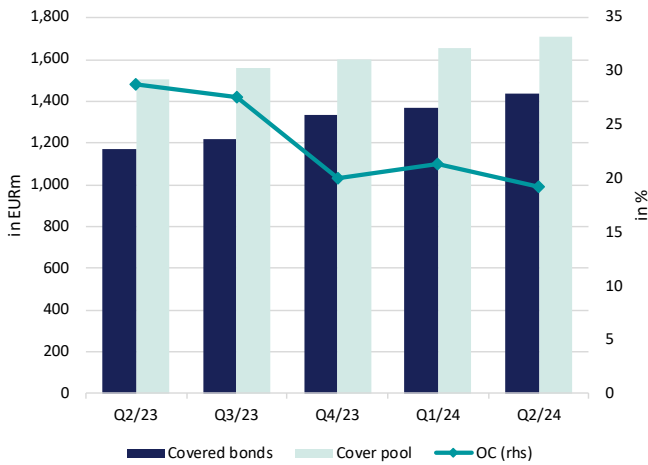
# Kreissparkasse Böblingen

# Mortgage

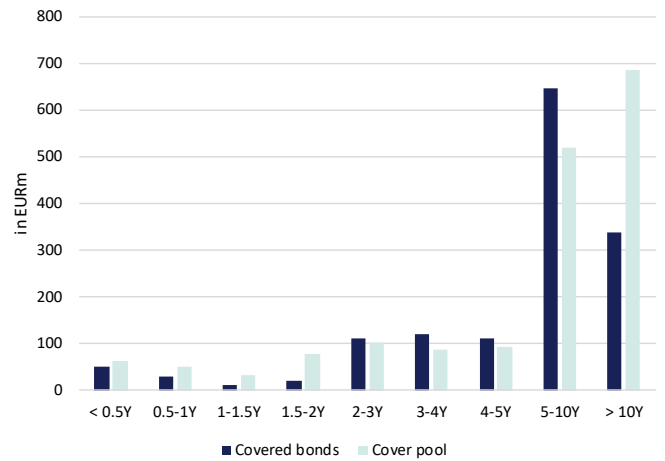
## Cover pool data

Cover pool (EURm)	1,711.5	Fixed interest (Cover pool)	98.8%
of which residential	93.7%	Fixed interest (Covered bonds)	100.0%
of which commercial	4.0%	Avg. LTV (Mortgage lending value)	57.4%
of which substitution assets	2.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	1,435.0	Share of largest exposure tranche	73.5% (< EUR 0.3m)
OC (EURm)	276.5	Avg. seasoning	5.1y
OC	19.3%	Loans in arrears (>90 days)	0.00%

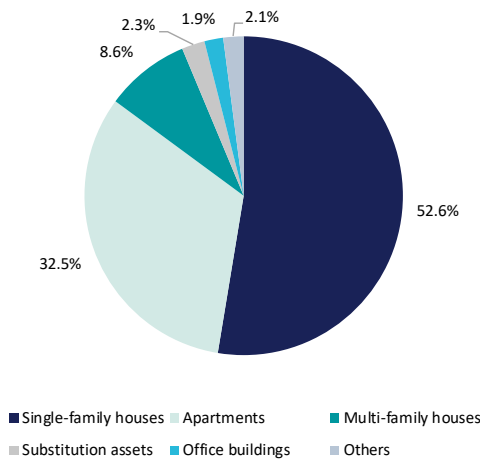
## Development of cover pool data



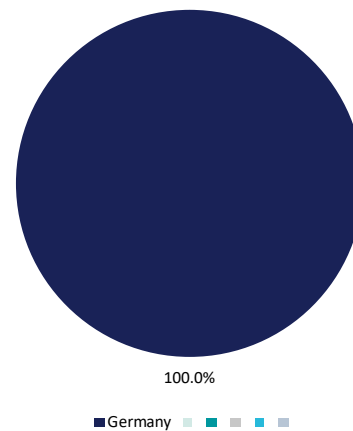
## Maturity structure



## Composition of cover pool



## Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research



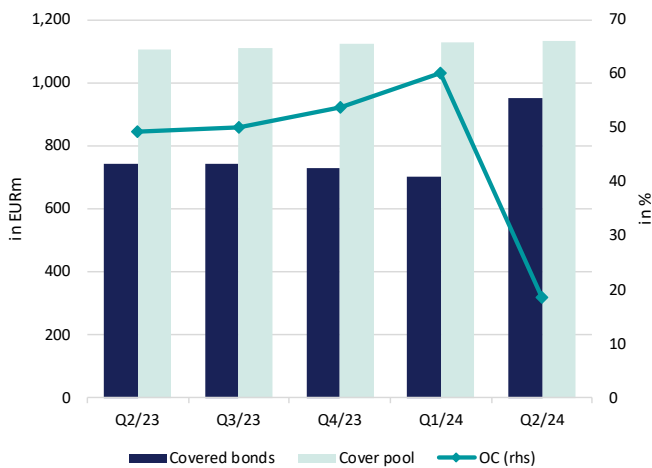
## Die Sparkasse Bremen AG

## Mortgage

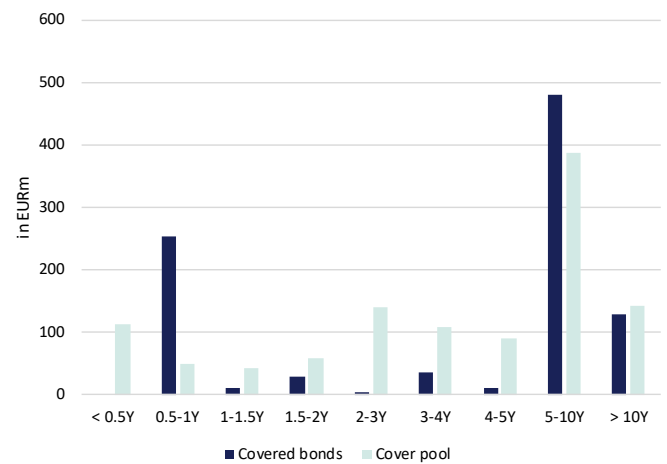
### Cover pool data

Cover pool (EURm)	1,133.0	Fixed interest (Cover pool)	94.2%
of which residential	64.7%	Fixed interest (Covered bonds)	100.0%
of which commercial	32.6%	Avg. LTV (Mortgage lending value)	53.2%
of which substitution assets	2.7%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	955.0	Share of largest exposure tranche	52.2% (< EUR 0.3m)
OC (EURm)	178.0	Avg. seasoning	7.0y
OC	18.6%	Loans in arrears (>90 days)	0.00%

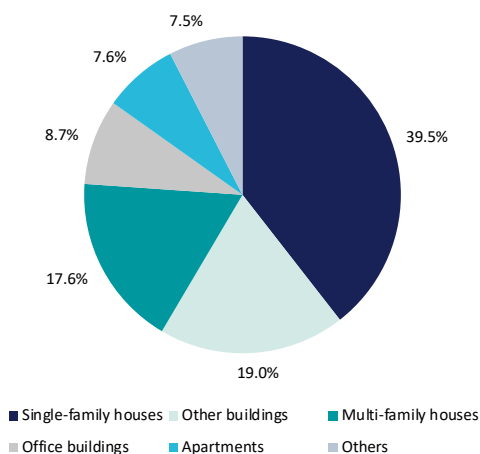
### Development of cover pool data



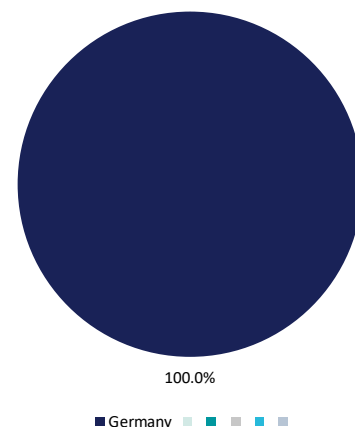
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

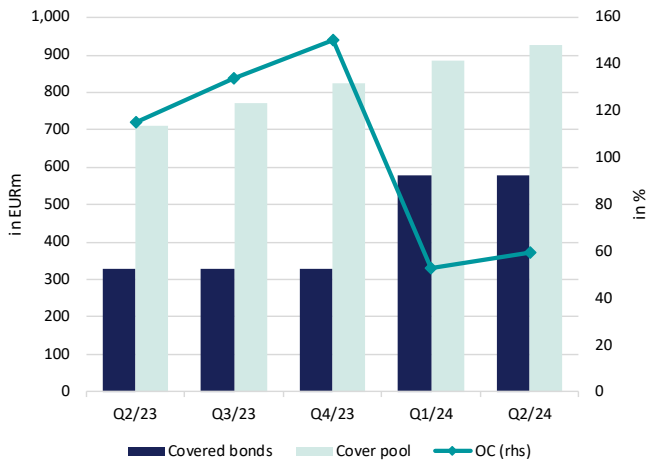
## Sparkasse Dortmund

## Mortgage

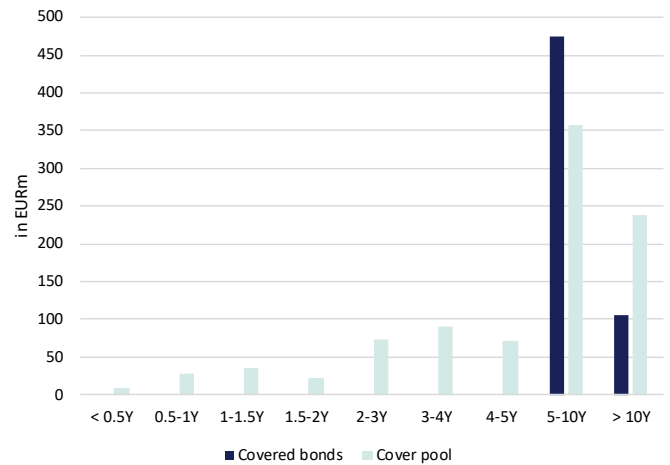
### Cover pool data

Cover pool (EURm)	926.7	Fixed interest (Cover pool)	98.9%
of which residential	81.7%	Fixed interest (Covered bonds)	100.0%
of which commercial	15.5%	Avg. LTV (Mortgage lending value)	57.4%
of which substitution assets	2.8%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	580.0	Share of largest exposure tranche	58.3% (< EUR 0.3m)
OC (EURm)	346.7	Avg. seasoning	4.3y
OC	59.8%	Loans in arrears (>90 days)	0.00%

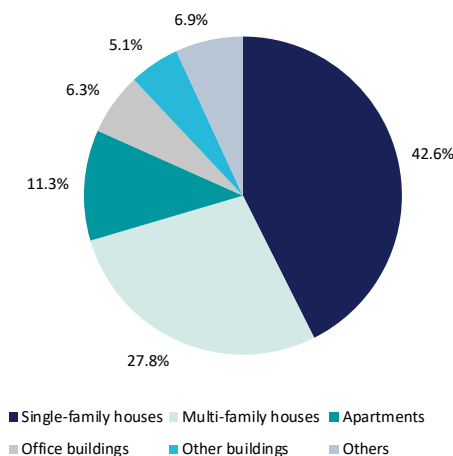
### Development of cover pool data



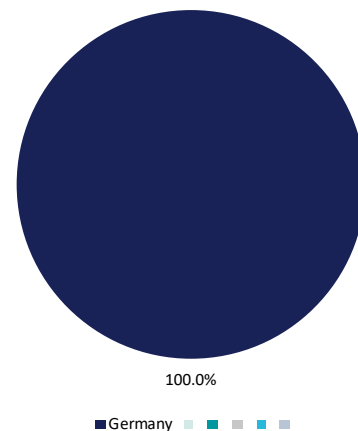
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



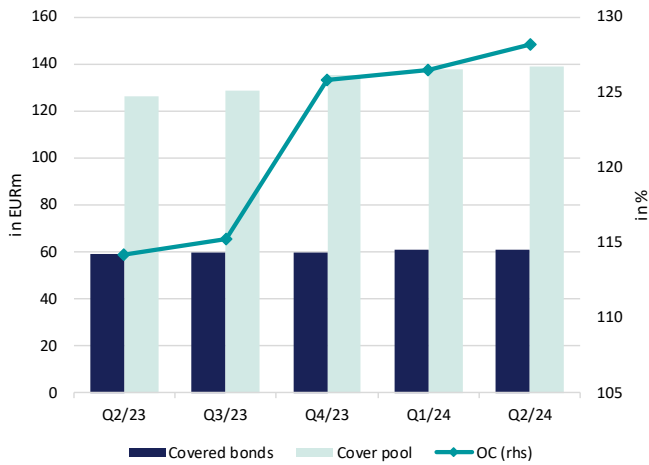
## Sparkasse Elmshorn

## Mortgage

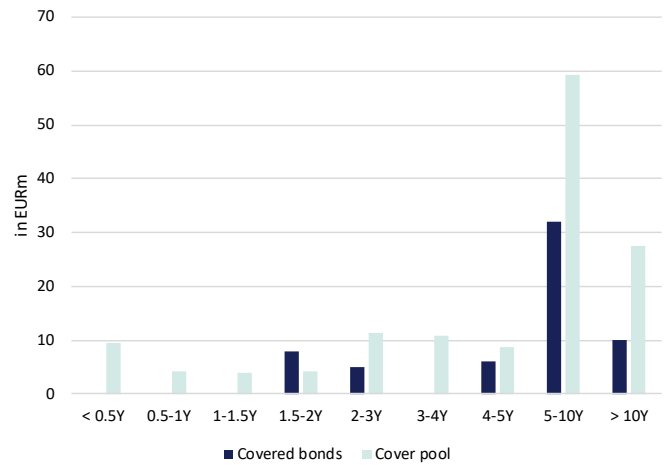
### Cover pool data

Cover pool (EURm)	139.2	Fixed interest (Cover pool)	99.2%
of which residential	97.7%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	55.1%
of which substitution assets	2.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	61.0	Share of largest exposure tranche	87.9% (< EUR 0.3m)
OC (EURm)	78.2	Avg. seasoning	4.8y
OC	128.3%	Loans in arrears (>90 days)	0.00%

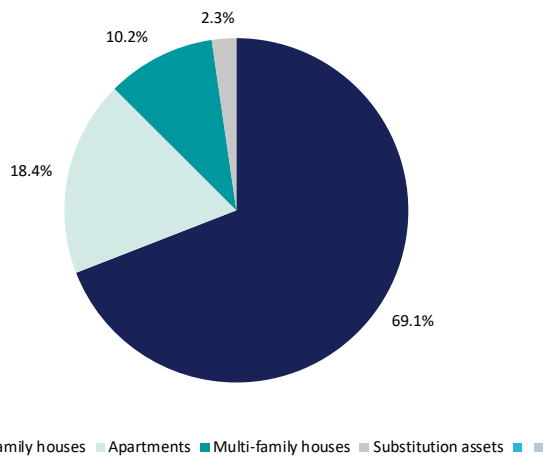
### Development of cover pool data



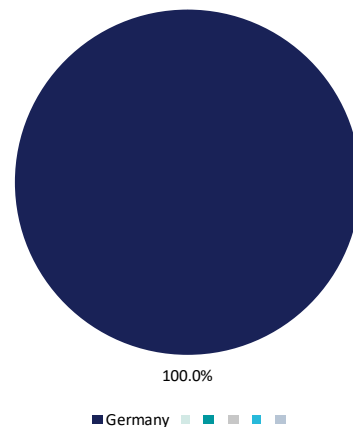
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



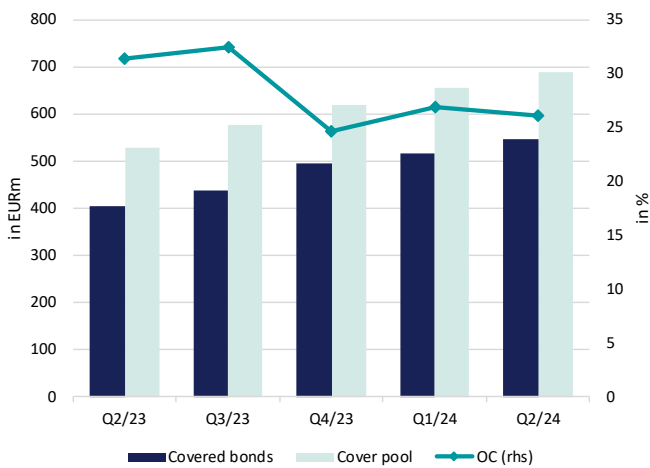
## Kreissparkasse Esslingen-Nürtingen

## Mortgage

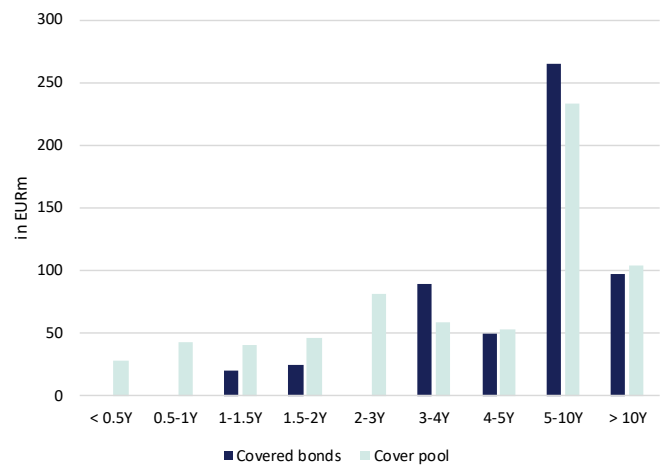
### Cover pool data

Cover pool (EURm)	689.7	Fixed interest (Cover pool)	100.0%
of which residential	91.6%	Fixed interest (Covered bonds)	100.0%
of which commercial	4.0%	Avg. LTV (Mortgage lending value)	54.6%
of which substitution assets	4.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	547.0	Share of largest exposure tranche	74.0% (< EUR 0.3m)
OC (EURm)	142.7	Avg. seasoning	5.0y
OC	26.1%	Loans in arrears (>90 days)	0.00%

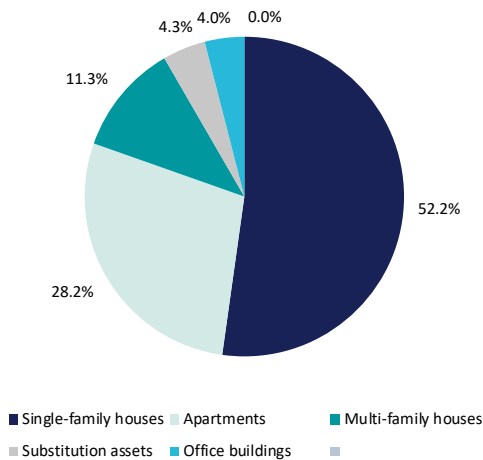
### Development of cover pool data



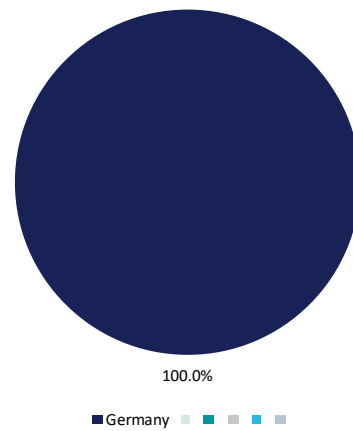
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



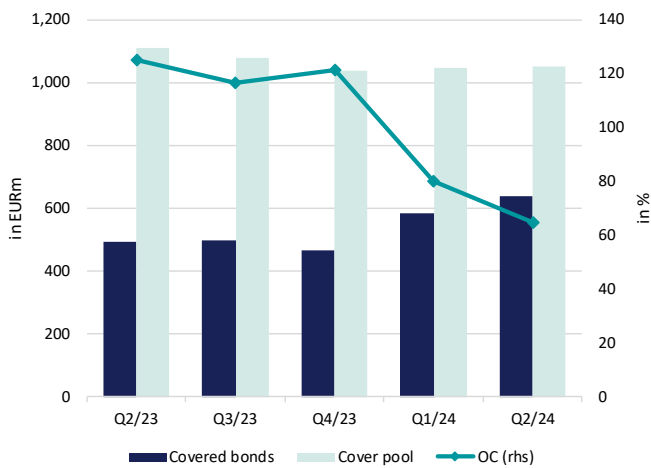
## Sparkasse Essen

## Mortgage

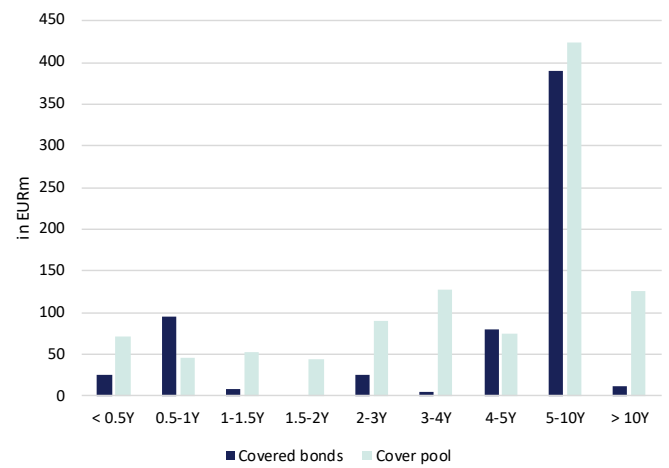
### Cover pool data

Cover pool (EURm)	1,053.7	Fixed interest (Cover pool)	95.3%
of which residential	89.7%	Fixed interest (Covered bonds)	100.0%
of which commercial	3.6%	Avg. LTV (Mortgage lending value)	54.4%
of which substitution assets	6.6%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	640.0	Share of largest exposure tranche	88.6% (< EUR 0.3m)
OC (EURm)	413.7	Avg. seasoning	6.3y
OC	64.6%	Loans in arrears (>90 days)	0.00%

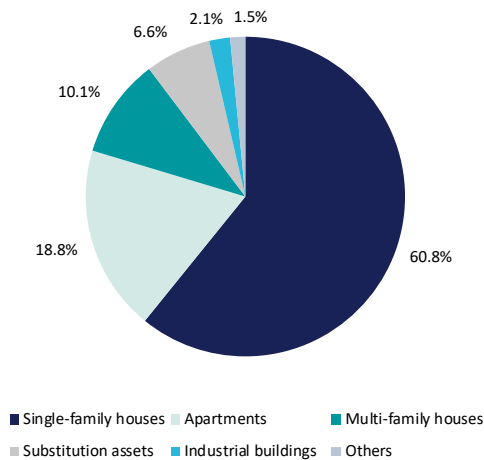
### Development of cover pool data



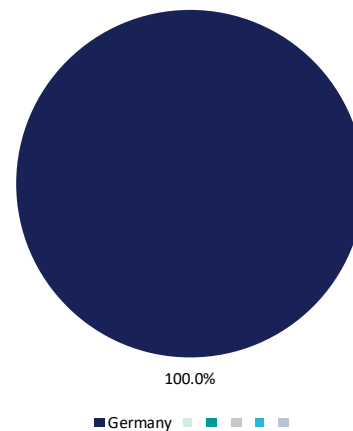
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



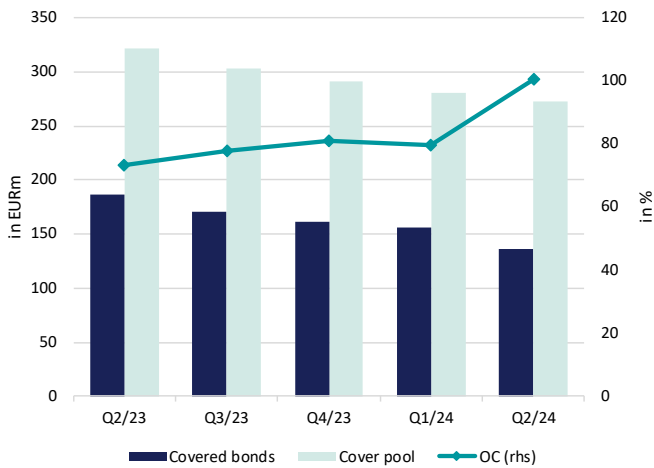
## Förde Sparkasse

## Mortgage

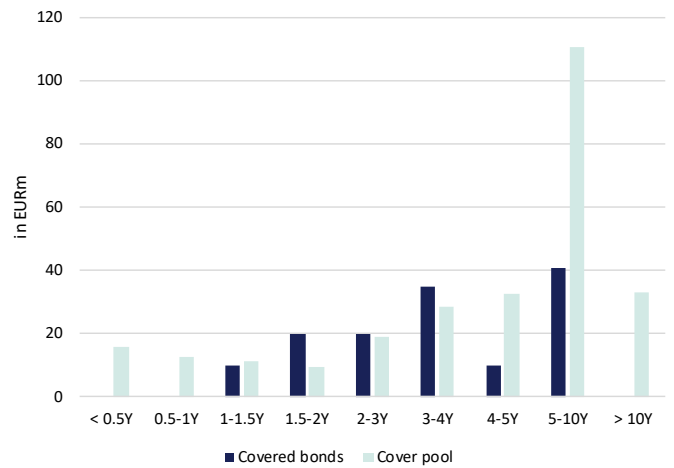
### Cover pool data

Cover pool (EURm)	273.0	Fixed interest (Cover pool)	98.6%
of which residential	89.5%	Fixed interest (Covered bonds)	100.0%
of which commercial	3.3%	Avg. LTV (Mortgage lending value)	52.0%
of which substitution assets	7.1%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	136.0	Share of largest exposure tranche	86.3% (< EUR 0.3m)
OC (EURm)	137.0	Avg. seasoning	11.0y
OC	100.7%	Loans in arrears (>90 days)	0.00%

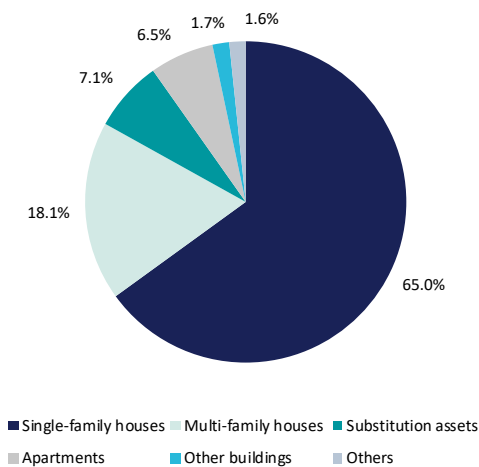
### Development of cover pool data



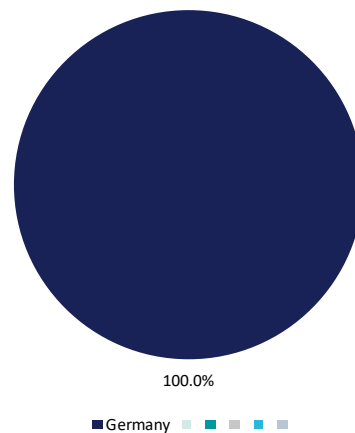
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



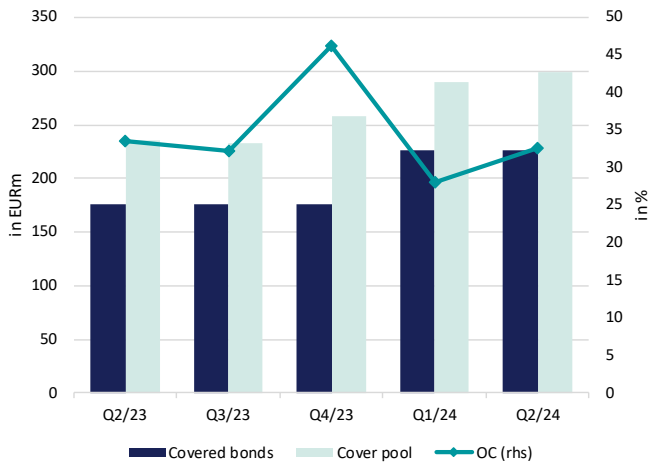
## Sparkasse Fürstenfeldbruck

## Mortgage

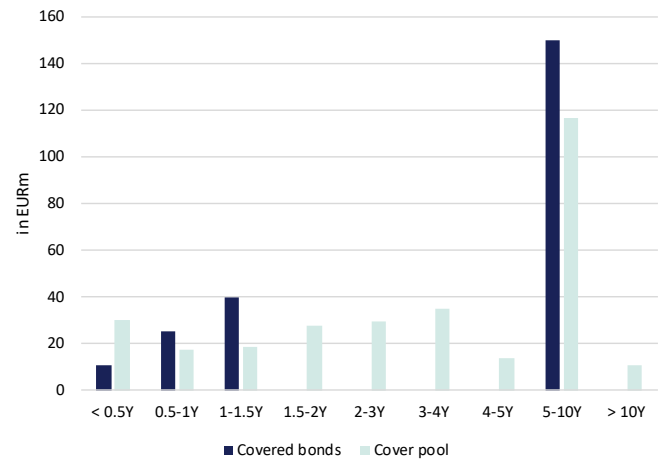
### Cover pool data

Cover pool (EURm)	299.8	Fixed interest (Cover pool)	97.4%
of which residential	87.5%	Fixed interest (Covered bonds)	100.0%
of which commercial	4.8%	Avg. LTV (Mortgage lending value)	50.5%
of which substitution assets	7.7%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	226.0	Share of largest exposure tranche	50.4% (< EUR 0.3m)
OC (EURm)	73.8	Avg. seasoning	6.8y
OC	32.7%	Loans in arrears (>90 days)	0.00%

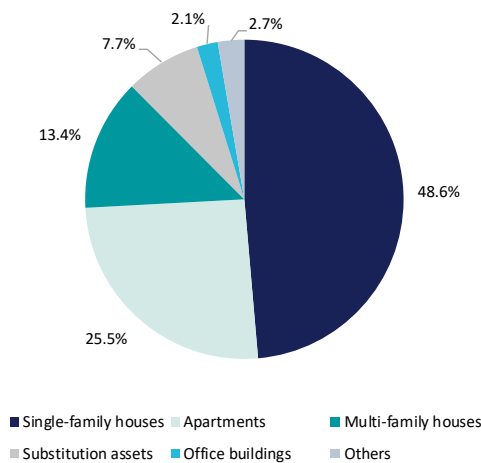
### Development of cover pool data



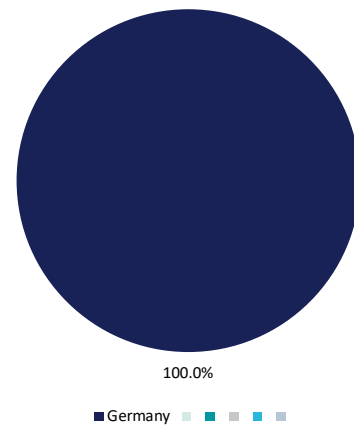
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



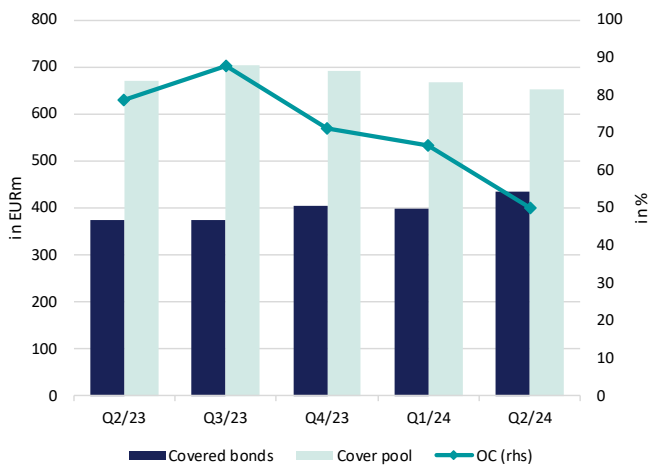
# Kreissparkasse Göppingen

# Mortgage

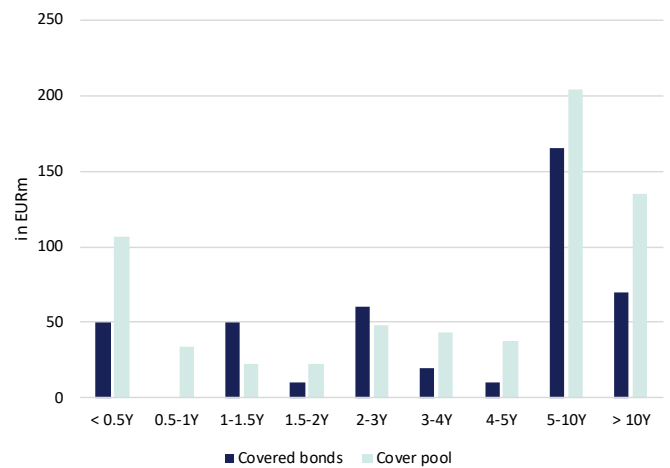
## Cover pool data

Cover pool (EURm)	653.6	Fixed interest (Cover pool)	86.2%
of which residential	79.4%	Fixed interest (Covered bonds)	100.0%
of which commercial	9.9%	Avg. LTV (Mortgage lending value)	56.5%
of which substitution assets	10.7%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	435.0	Share of largest exposure tranche	80.2% (< EUR 0.3m)
OC (EURm)	218.6	Avg. seasoning	5.6y
OC	50.2%	Loans in arrears (>90 days)	0.00%

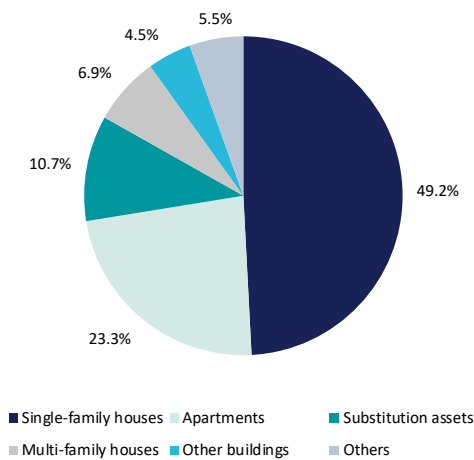
## Development of cover pool data



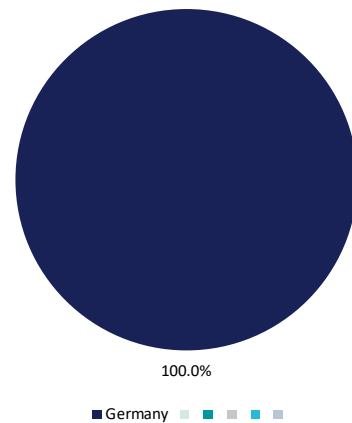
## Maturity structure



## Composition of cover pool



## Regional distribution of properties





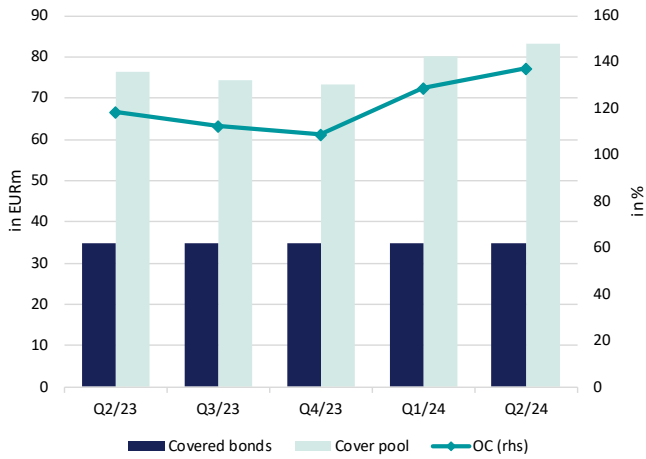
# Kreissparkasse Göppingen

## Public sector

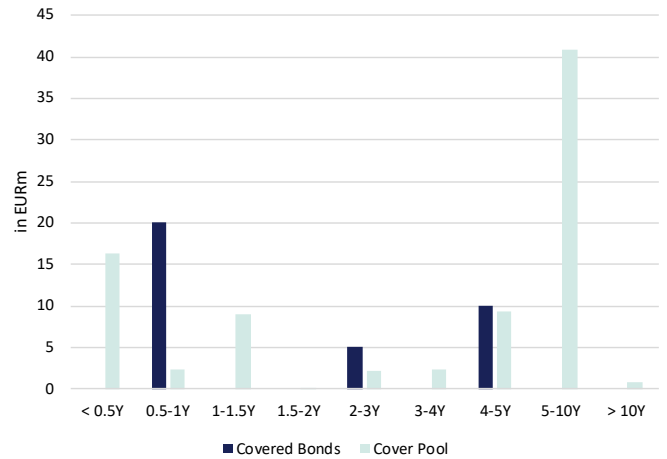
### Cover pool data

Cover pool (EURm)	83.2	Fixed interest (Cover pool)	81.8%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	35.0	Share of largest exposure tranche	66.9% (< EUR 10m)
OC (EURm)	48.2	Loans in arrears (>90 days)	0.00%
OC	137.7%		

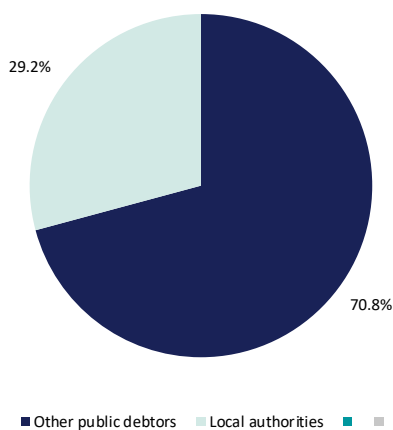
### Development of cover pool data



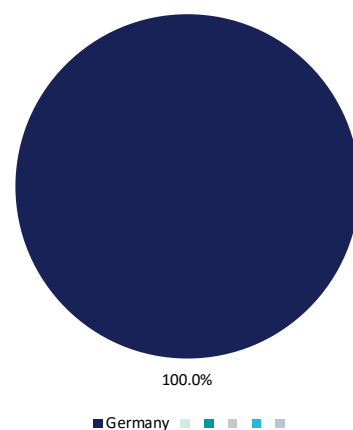
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research

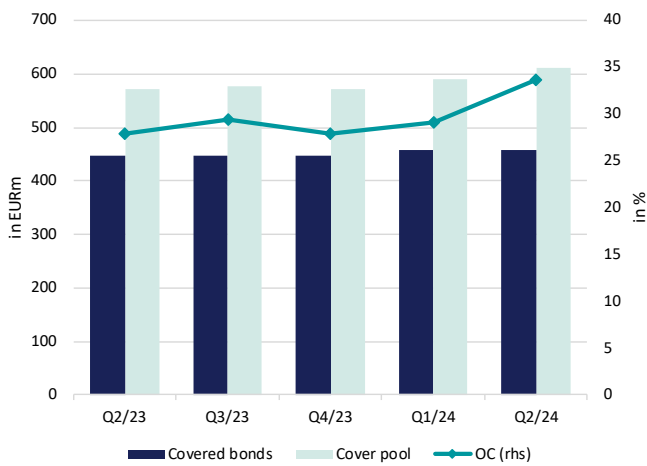
## Sparkasse Hanau

## Mortgage

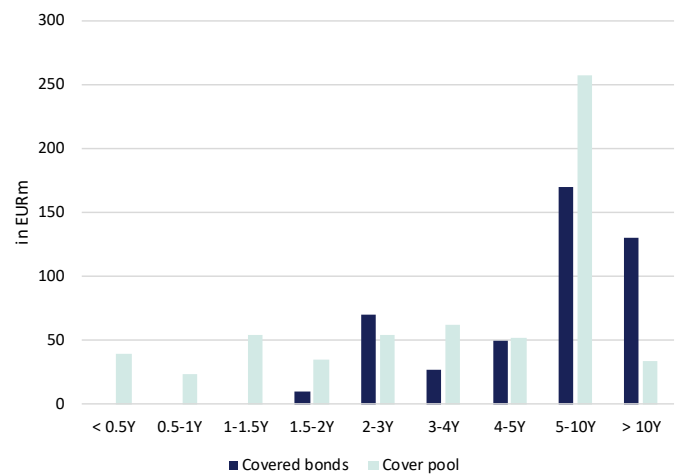
### Cover pool data

Cover pool (EURm)	611.0	Fixed interest (Cover pool)	98.5%
of which residential	91.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	3.2%	Avg. LTV (Mortgage lending value)	54.3%
of which substitution assets	4.9%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	457.0	Share of largest exposure tranche	84.6% (< EUR 0.3m)
OC (EURm)	154.0	Avg. seasoning	6.1y
OC	33.7%	Loans in arrears (>90 days)	0.00%

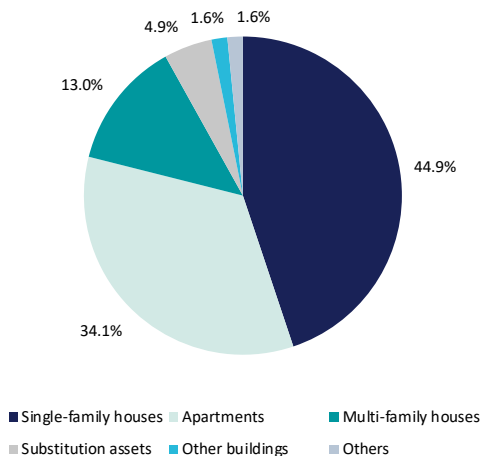
### Development of cover pool data



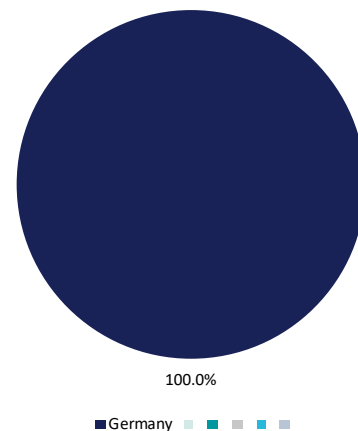
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



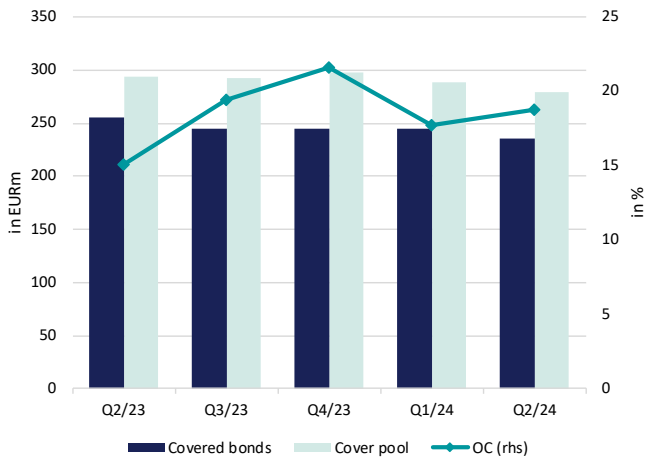
## Sparkasse Hanau

## Public sector

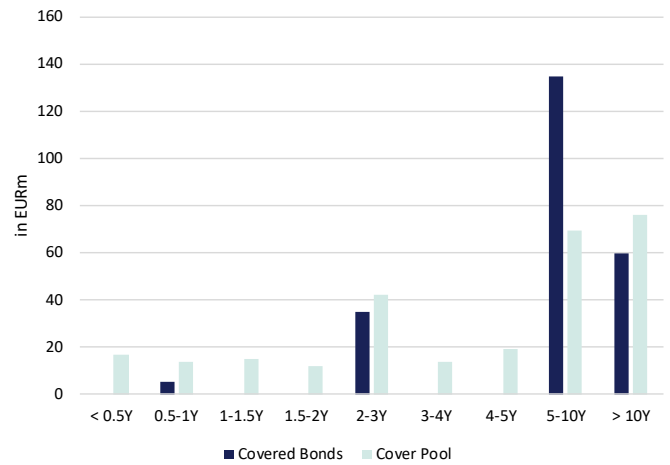
### Cover pool data

Cover pool (EURm)	279.0	Fixed interest (Cover pool)	99.5%
of which substitution assets	7.2%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	235.0	Share of largest exposure tranche	77.8% (EUR 10-100m)
OC (EURm)	44.0	Loans in arrears (>90 days)	0.00%
OC	18.7%		

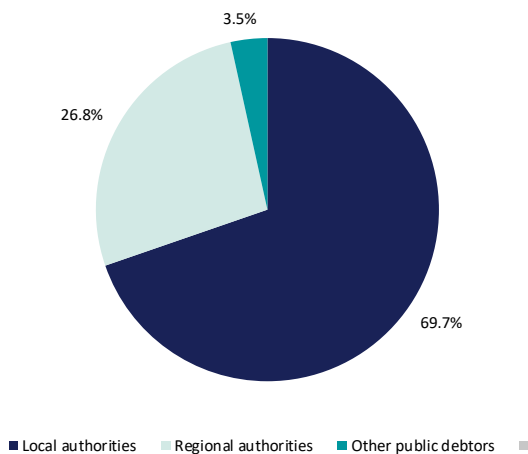
### Development of cover pool data



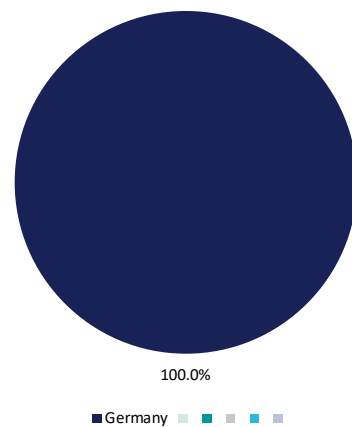
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



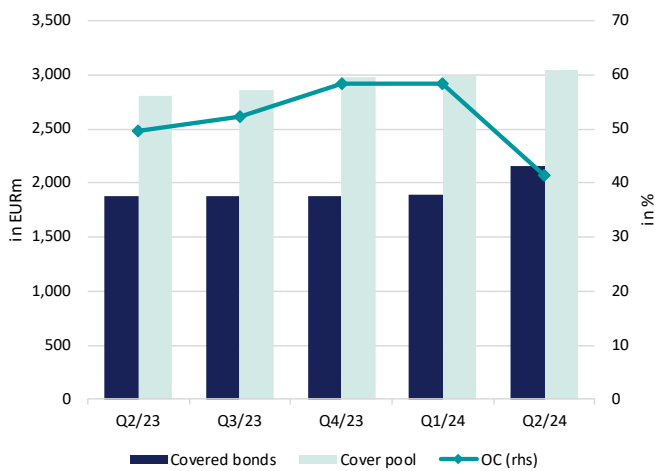
## Sparkasse Hannover

## Mortgage

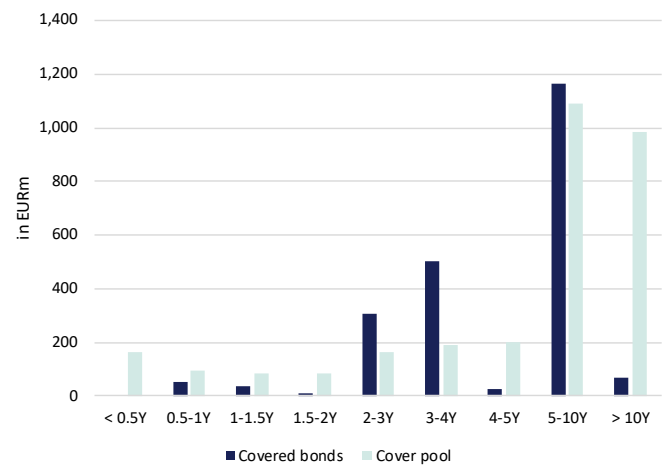
### Cover pool data

Cover pool (EURm)	3,051.1	Fixed interest (Cover pool)	90.9%
of which residential	80.5%	Fixed interest (Covered bonds)	100.0%
of which commercial	14.9%	Avg. LTV (Mortgage lending value)	55.5%
of which substitution assets	4.6%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	2,158.6	Share of largest exposure tranche	65.5% (< EUR 0.3m)
OC (EURm)	892.5	Avg. seasoning	5.6y
OC	41.3%	Loans in arrears (>90 days)	0.00%

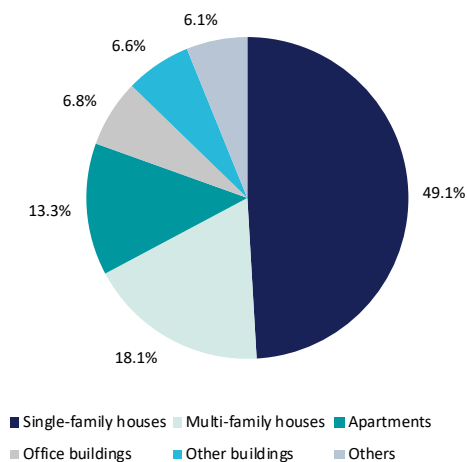
### Development of cover pool data



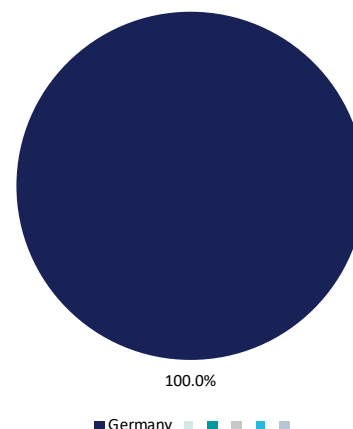
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

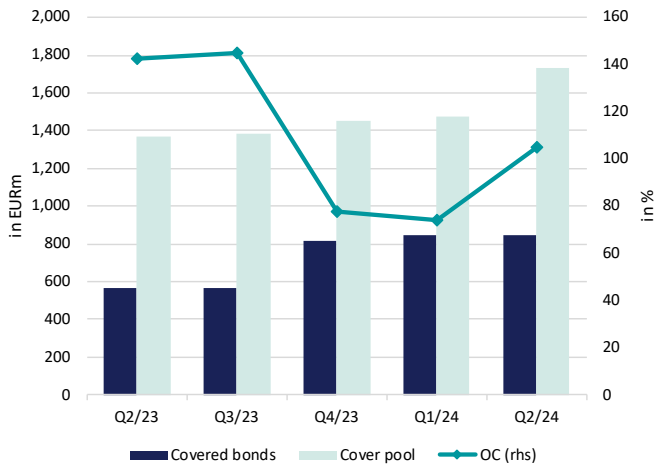
## Sparkasse Hannover

## Public sector

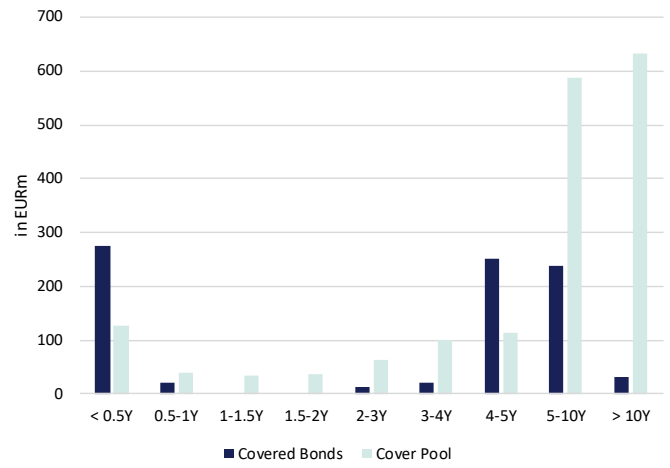
### Cover pool data

Cover pool (EURm)	1,733.2	Fixed interest (Cover pool)	95.9%
of which substitution assets	1.8%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	846.1	Share of largest exposure tranche	46.2% (EUR 10-100m)
OC (EURm)	887.1	Loans in arrears (>90 days)	0.00%
OC	104.8%		

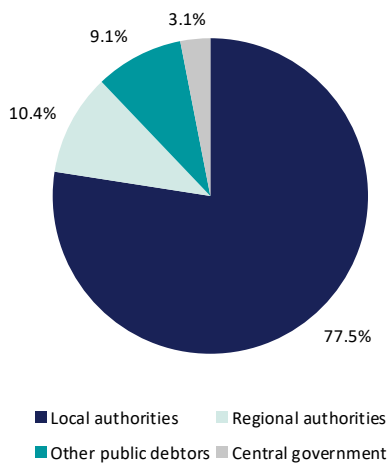
### Development of cover pool data



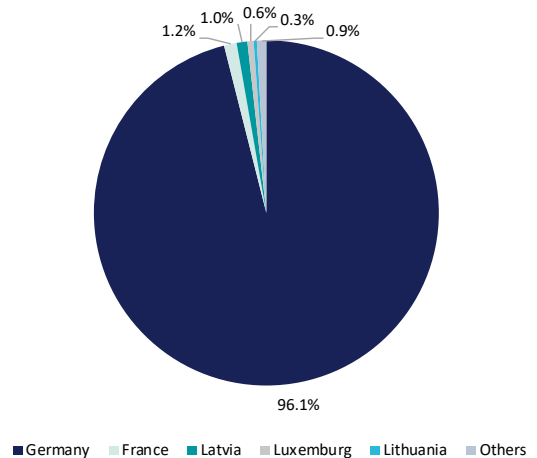
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research

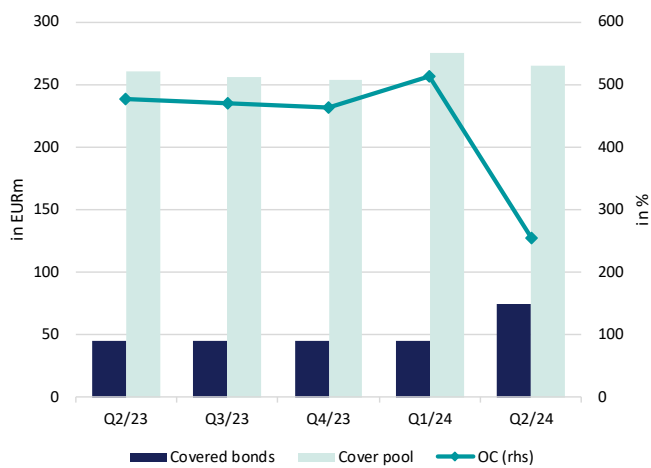
## Sparkasse Harburg-Buxtehude

## Mortgage

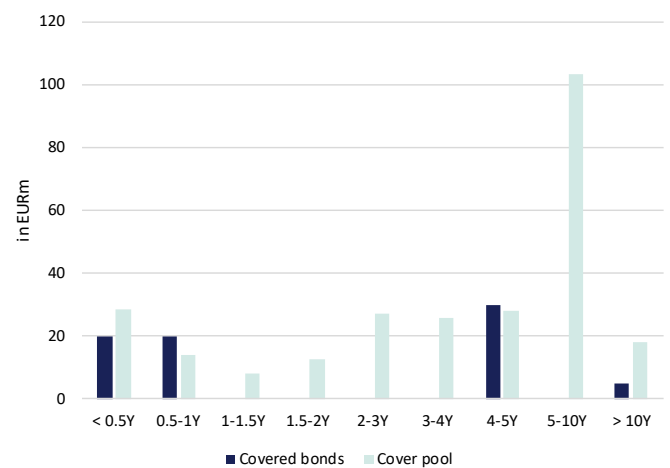
### Cover pool data

Cover pool (EURm)	265.6	Fixed interest (Cover pool)	99.8%
of which residential	91.3%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	51.7%
of which substitution assets	8.7%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	75.0	Share of largest exposure tranche	71.6% (< EUR 0.3m)
OC (EURm)	190.6	Avg. seasoning	7.1y
OC	254.1%	Loans in arrears (>90 days)	0.00%

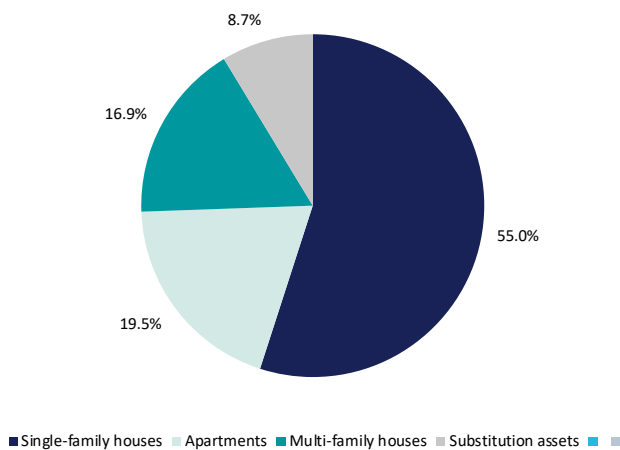
### Development of cover pool data



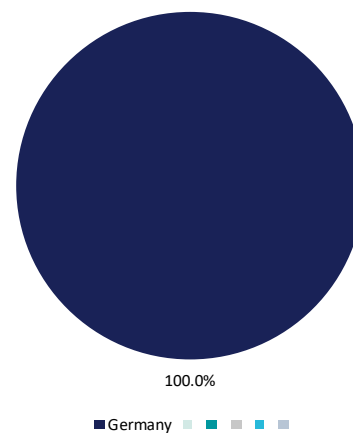
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



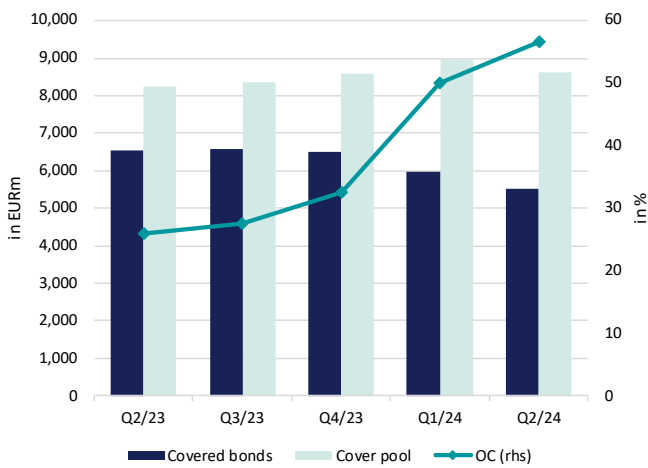
# Hamburger Sparkasse AG

# Mortgage

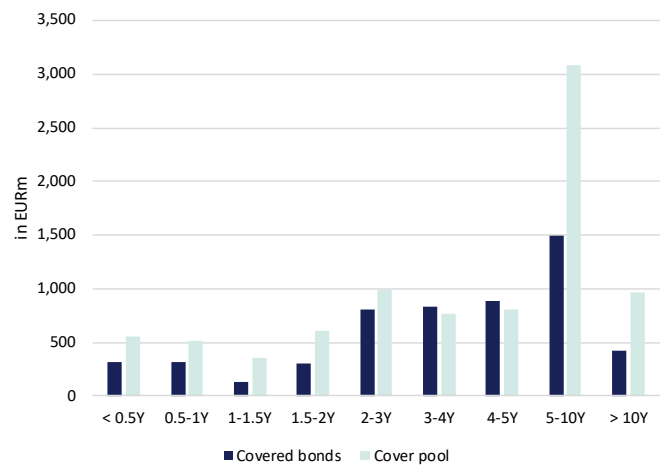
## Cover pool data

Cover pool (EURm)	8,618.2	Fixed interest (Cover pool)	52.5%
of which residential	67.0%	Fixed interest (Covered bonds)	n/a
of which commercial	28.9%	Avg. LTV (Mortgage lending value)	89.3%
of which substitution assets	4.1%	Avg. LTV (Market value)	98.4%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	5,504.1	Share of largest exposure tranche	32.0% (EUR 1-10m)
OC (EURm)	3,114.1	Avg. seasoning	7.5y
OC	56.6%	Loans in arrears (>90 days)	0.00%

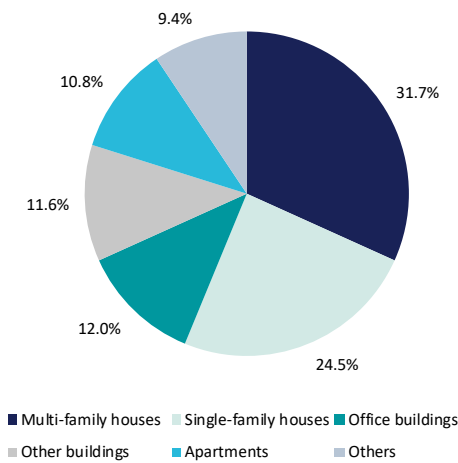
## Development of cover pool data



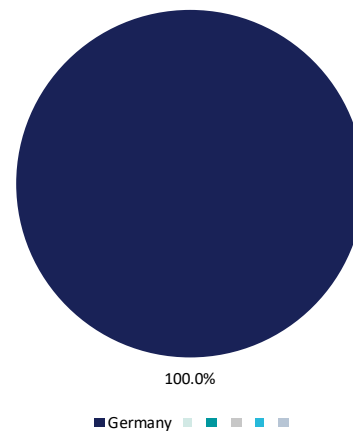
## Maturity structure



## Composition of cover pool



## Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

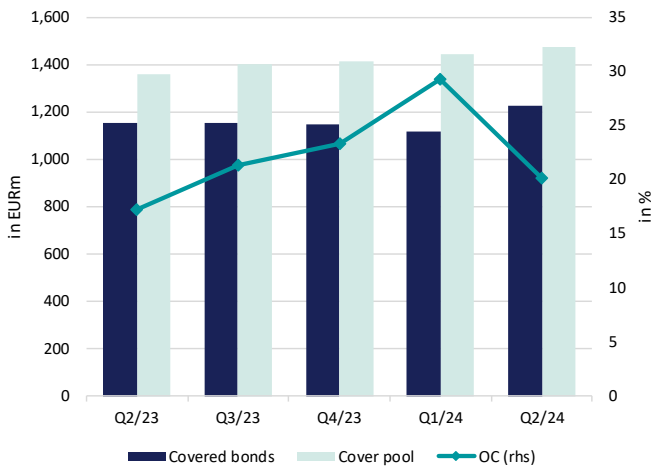
# Kreissparkasse Heilbronn

# Mortgage

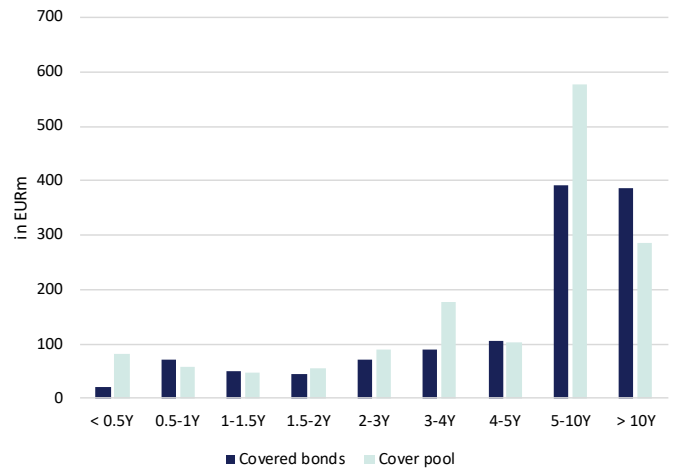
## Cover pool data

Cover pool (EURm)	1,476.4	Fixed interest (Cover pool)	98.1%
of which residential	87.2%	Fixed interest (Covered bonds)	100.0%
of which commercial	4.3%	Avg. LTV (Mortgage lending value)	54.3%
of which substitution assets	8.5%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	1,228.5	Share of largest exposure tranche	80.4% (< EUR 0.3m)
OC (EURm)	247.9	Avg. seasoning	6.1y
OC	20.2%	Loans in arrears (>90 days)	0.00%

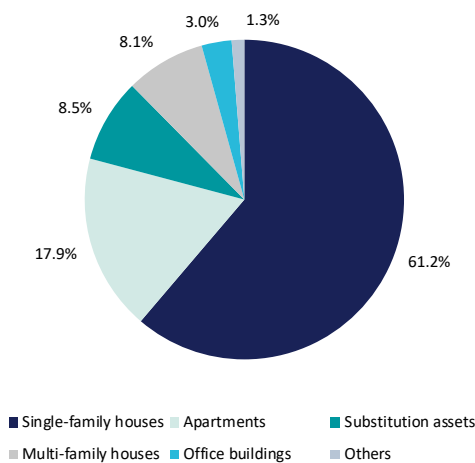
## Development of cover pool data



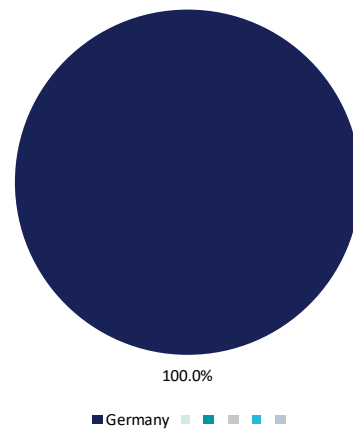
## Maturity structure



## Composition of cover pool



## Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research



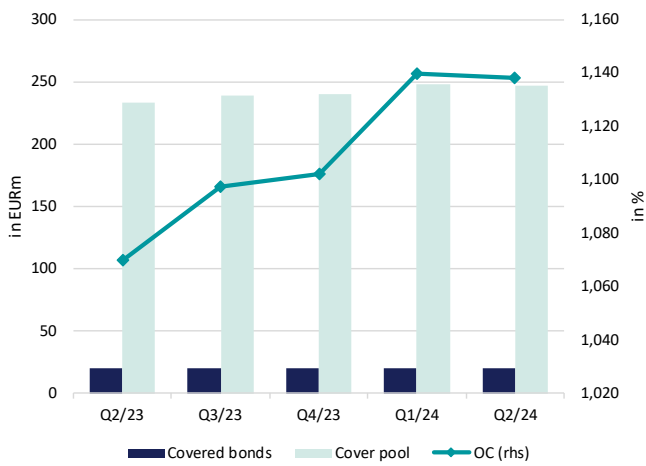
## Sparkasse Herford

## Mortgage

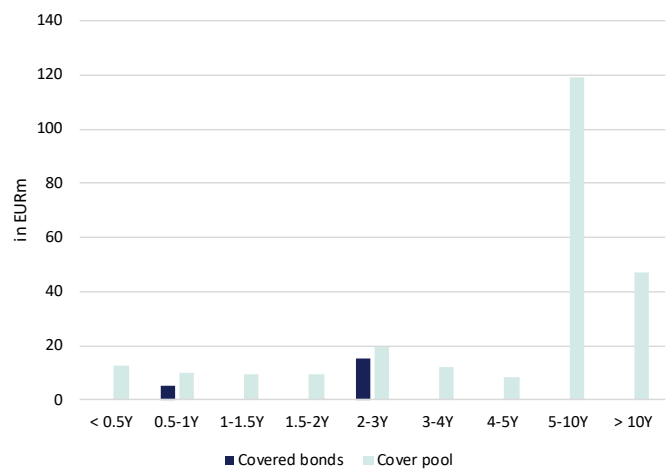
### Cover pool data

Cover pool (EURm)	247.7	Fixed interest (Cover pool)	100.0%
of which residential	99.0%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.1%	Avg. LTV (Mortgage lending value)	56.0%
of which substitution assets	0.9%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	20.0	Share of largest exposure tranche	100.0% (< EUR 0.3m)
OC (EURm)	227.7	Avg. seasoning	5.3y
OC	1138.4%	Loans in arrears (>90 days)	0.00%

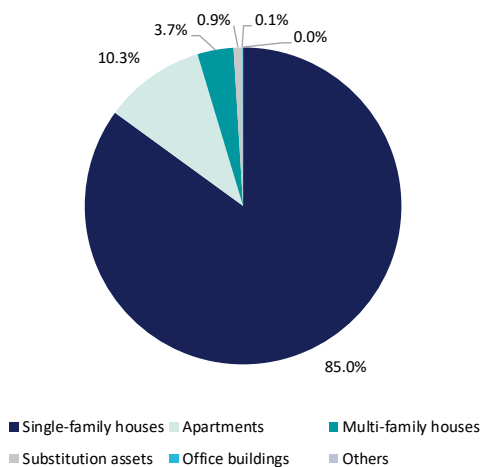
### Development of cover pool data



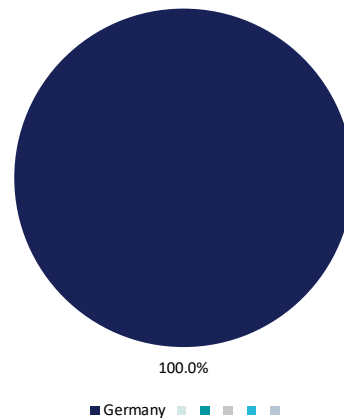
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



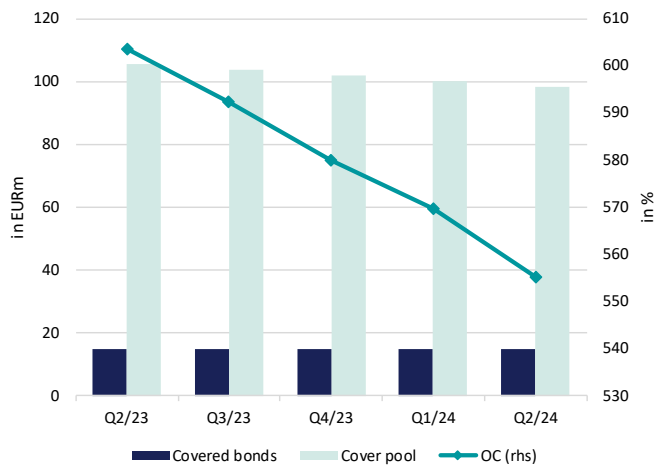
## Sparkasse Herford

## Public sector

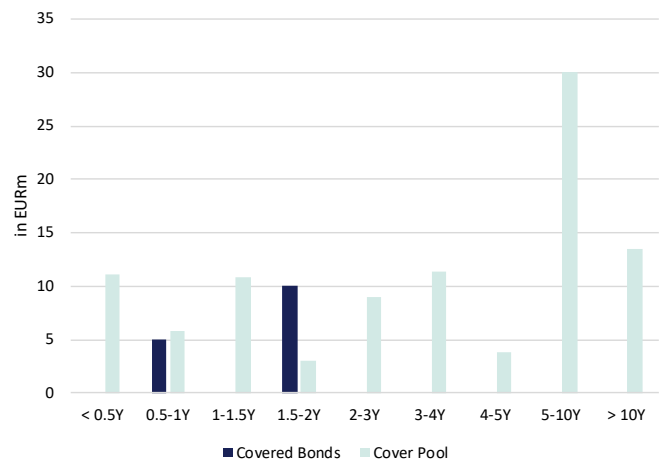
### Cover pool data

Cover pool (EURm)	98.3	Fixed interest (Cover pool)	100.0%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	15.0	Share of largest exposure tranche	68.1% (EUR 10-100m)
OC (EURm)	83.3	Loans in arrears (>90 days)	0.00%
OC	555.2%		

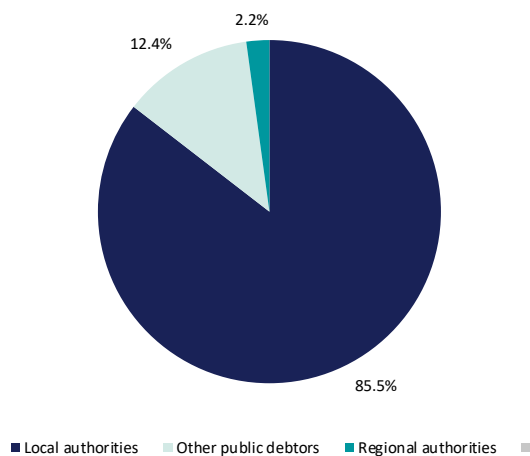
### Development of cover pool data



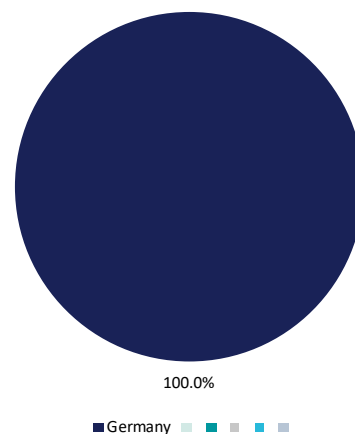
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



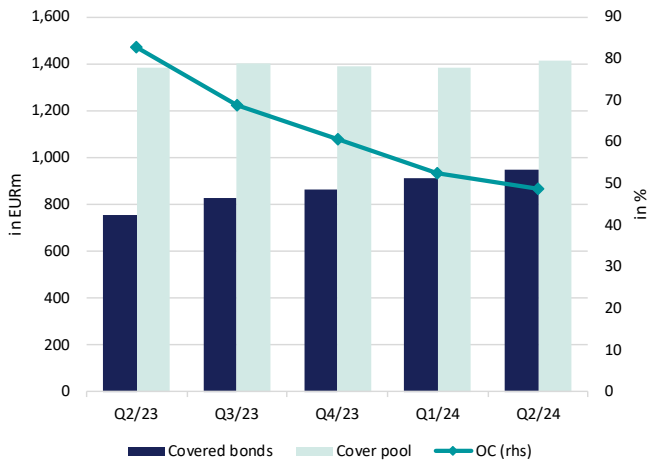
## Sparkasse Holstein

## Mortgage

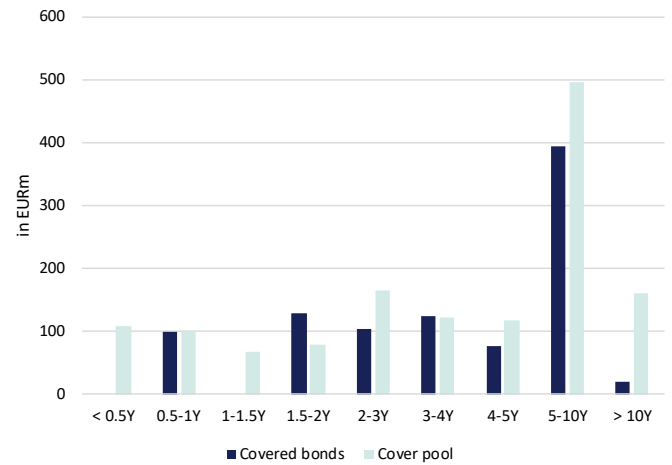
### Cover pool data

Cover pool (EURm)	1,416.8	Fixed interest (Cover pool)	94.0%
of which residential	59.3%	Fixed interest (Covered bonds)	23.8%
of which commercial	37.4%	Avg. LTV (Mortgage lending value)	53.4%
of which substitution assets	3.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	951.3	Share of largest exposure tranche	44.7% (EUR 1-10m)
OC (EURm)	465.5	Avg. seasoning	6.9y
OC	48.9%	Loans in arrears (>90 days)	0.00%

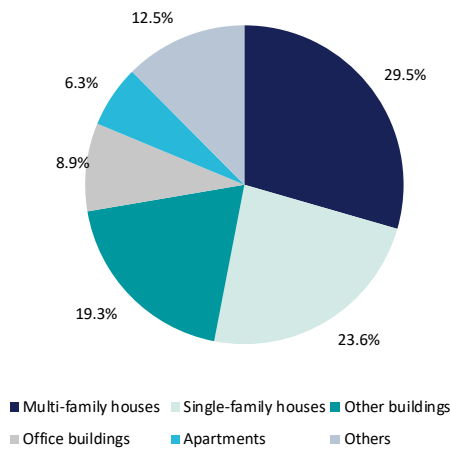
### Development of cover pool data



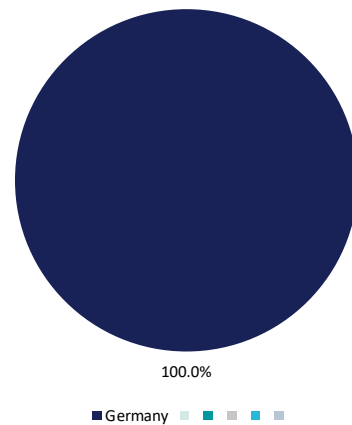
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



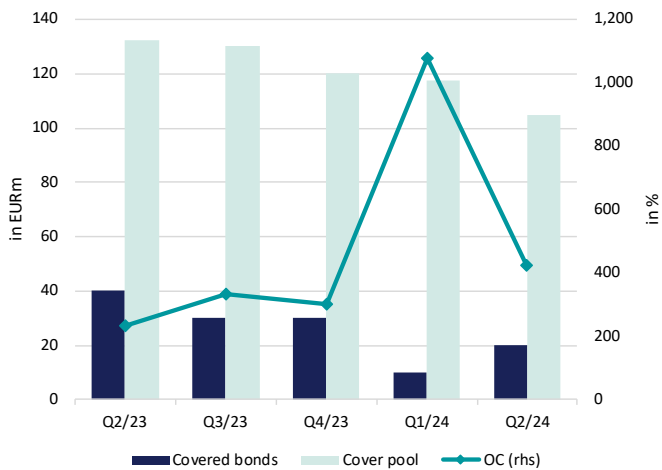
## Sparkasse Holstein

## Public sector

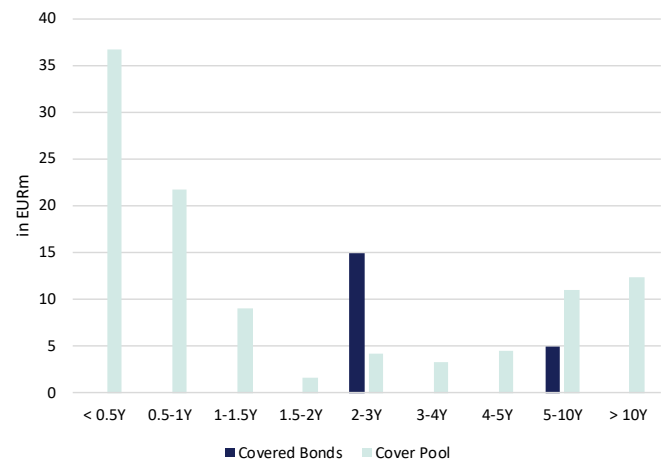
### Cover pool data

Cover pool (EURm)	104.6	Fixed interest (Cover pool)	71.7%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	20.0	Share of largest exposure tranche	62.1% (< EUR 10m)
OC (EURm)	84.6	Loans in arrears (>90 days)	0.00%
OC	423.2%		

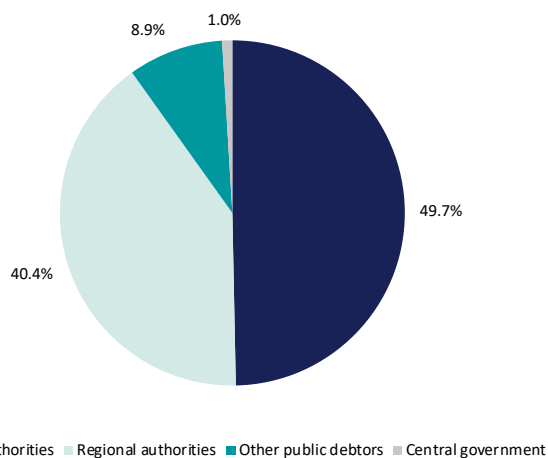
### Development of cover pool data



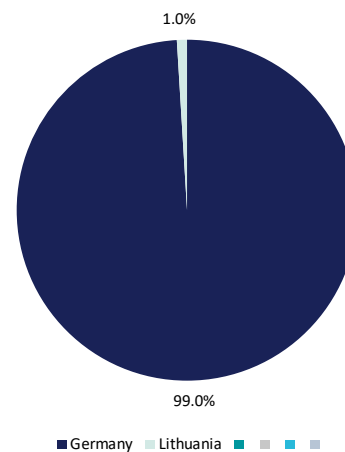
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research

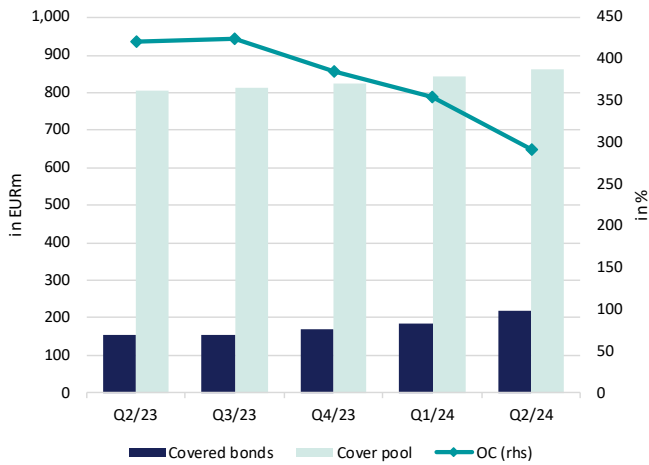
## Sparkasse Krefeld

## Mortgage

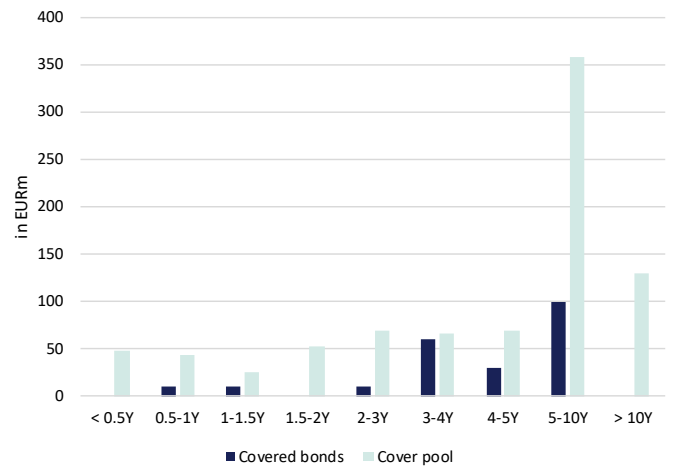
### Cover pool data

Cover pool (EURm)	861.3	Fixed interest (Cover pool)	99.0%
of which residential	94.1%	Fixed interest (Covered bonds)	97.7%
of which commercial	1.8%	Avg. LTV (Mortgage lending value)	54.4%
of which substitution assets	4.1%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	220.0	Share of largest exposure tranche	93.1% (< EUR 0.3m)
OC (EURm)	641.3	Avg. seasoning	5.8y
OC	291.5%	Loans in arrears (>90 days)	0.00%

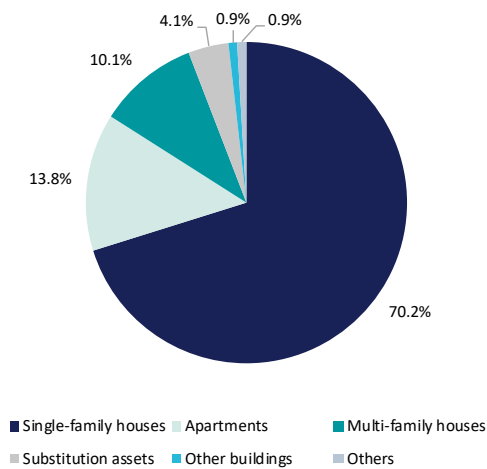
### Development of cover pool data



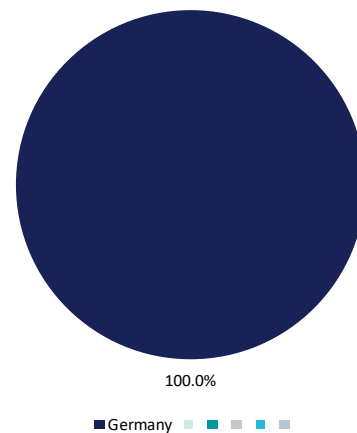
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



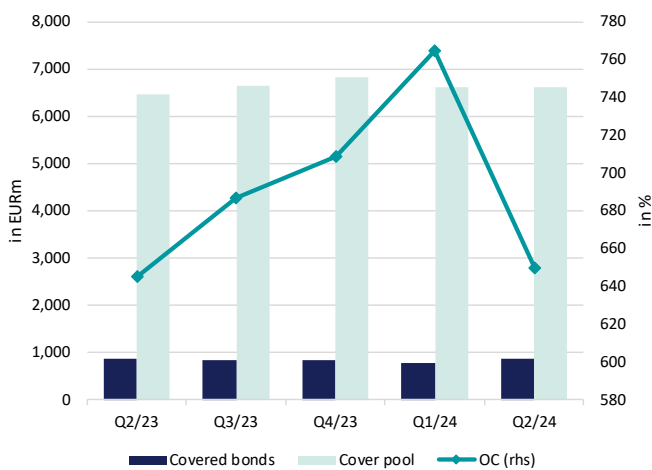
# Kreissparkasse Köln

# Mortgage

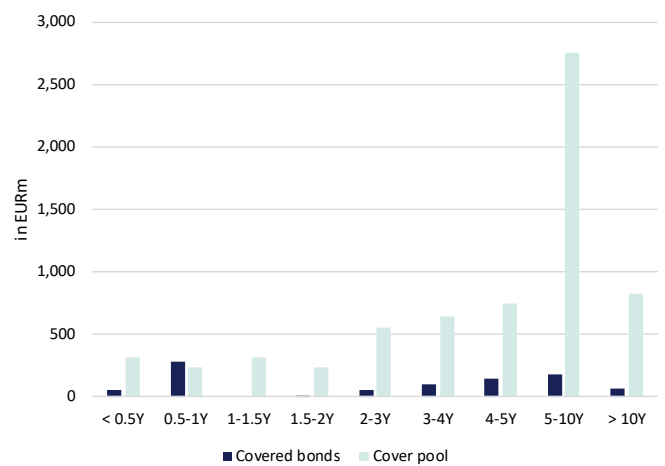
## Cover pool data

Cover pool (EURm)	6,635.3	Fixed interest (Cover pool)	100.0%
of which residential	87.2%	Fixed interest (Covered bonds)	100.0%
of which commercial	11.3%	Avg. LTV (Mortgage lending value)	53.5%
of which substitution assets	1.5%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	884.5	Share of largest exposure tranche	64.2% (< EUR 0.3m)
OC (EURm)	5,750.8	Avg. seasoning	5.4y
OC	650.2%	Loans in arrears (>90 days)	0.00%

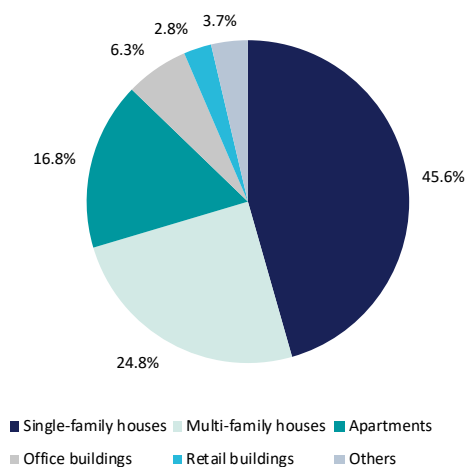
## Development of cover pool data



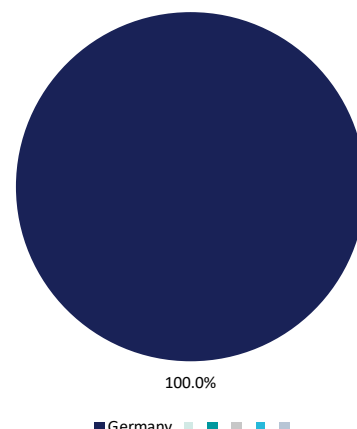
## Maturity structure



## Composition of cover pool



## Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

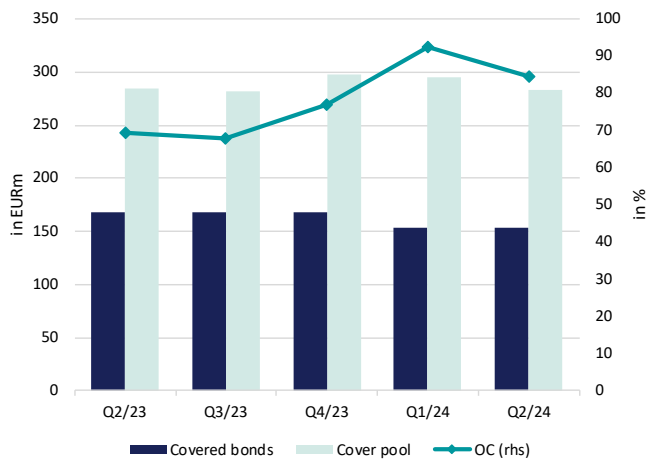
## Kreissparkasse Köln

## Public sector

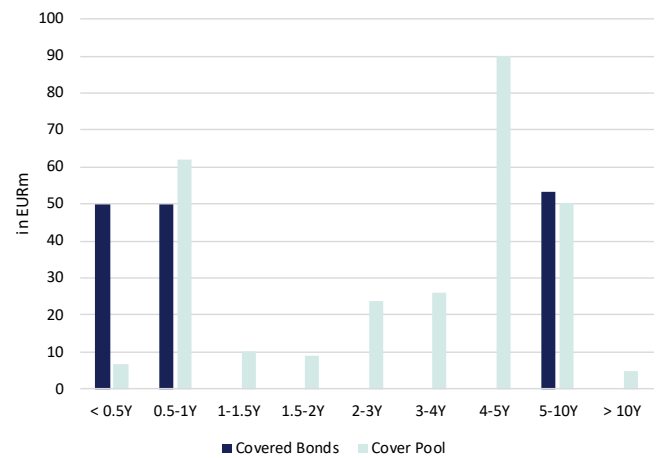
### Cover pool data

Cover pool (EURm)	283.0	Fixed interest (Cover pool)	100.0%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	153.4	Share of largest exposure tranche	67.1% (EUR 10-100m)
OC (EURm)	129.5	Loans in arrears (>90 days)	0.00%
OC	84.4%		

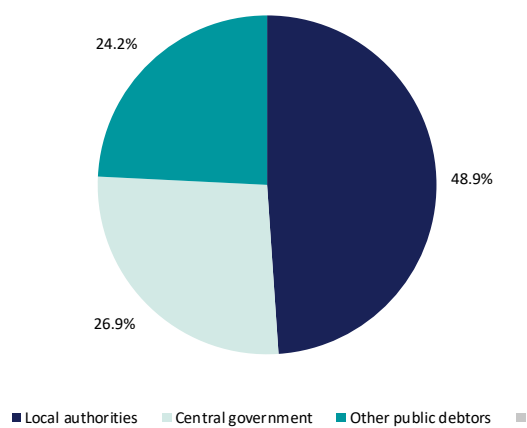
### Development of cover pool data



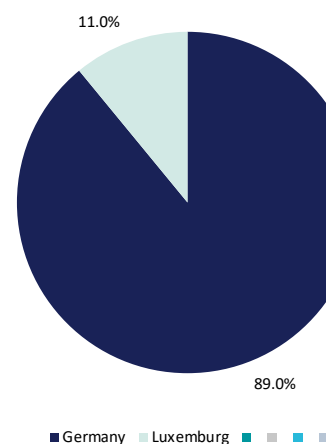
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



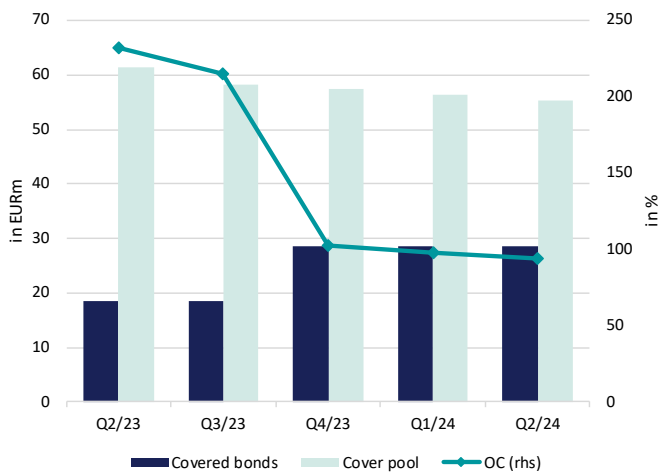
## Sparkasse Kulmbach-Kronach

## Mortgage

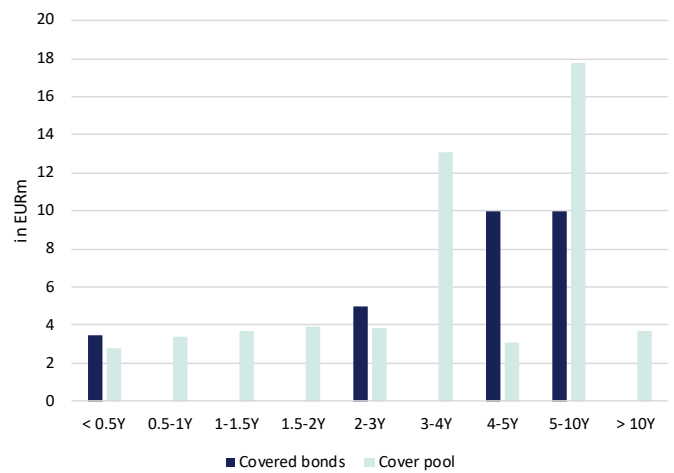
### Cover pool data

Cover pool (EURm)	55.3	Fixed interest (Cover pool)	100.0%
of which residential	83.3%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	52.5%
of which substitution assets	16.7%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	28.5	Share of largest exposure tranche	89.5% (< EUR 0.3m)
OC (EURm)	26.8	Avg. seasoning	6.9y
OC	93.9%	Loans in arrears (>90 days)	0.00%

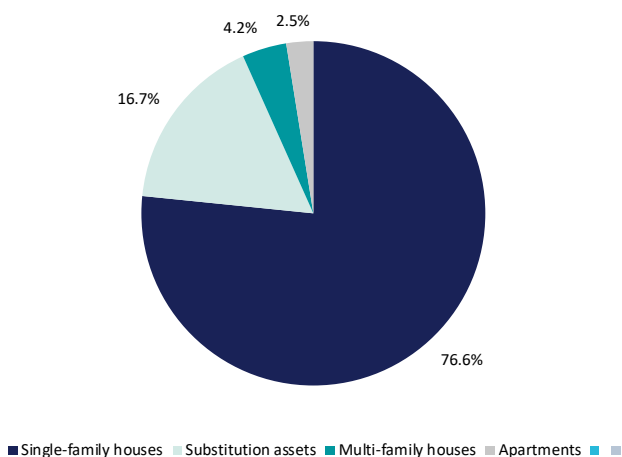
### Development of cover pool data



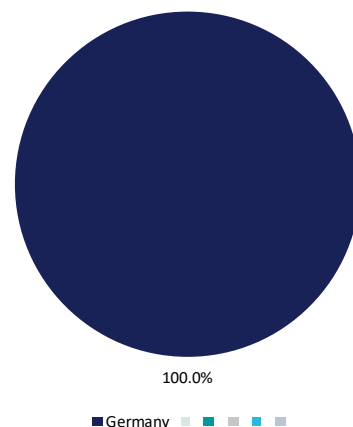
### Maturity structure



### Composition of cover pool



### Regional distribution of properties





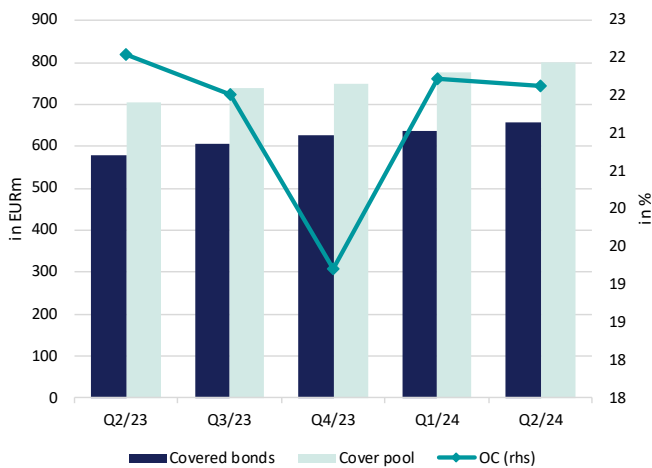
# Kreissparkasse Herzogtum Lauenburg

# Mortgage

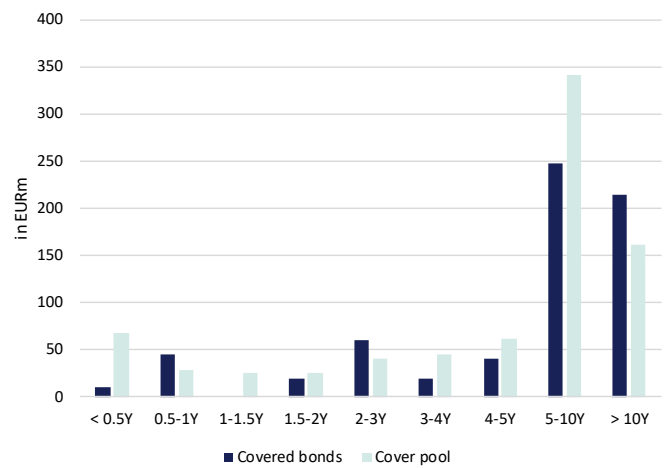
## Cover pool data

Cover pool (EURm)	799.1	Fixed interest (Cover pool)	95.2%
of which residential	84.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	12.5%	Avg. LTV (Mortgage lending value)	54.2%
of which substitution assets	2.6%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	657.0	Share of largest exposure tranche	59.5% (< EUR 0.3m)
OC (EURm)	142.1	Avg. seasoning	6.2y
OC	21.6%	Loans in arrears (>90 days)	0.00%

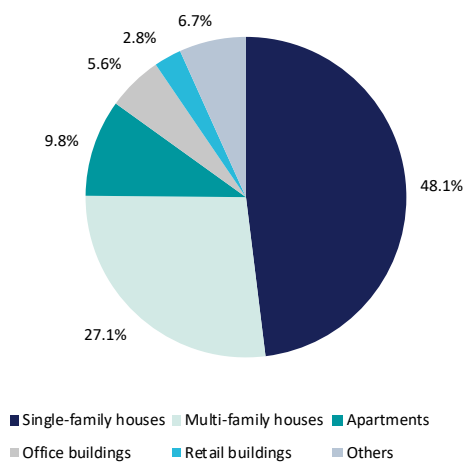
## Development of cover pool data



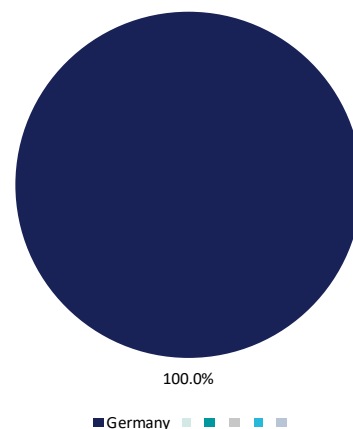
## Maturity structure



## Composition of cover pool



## Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

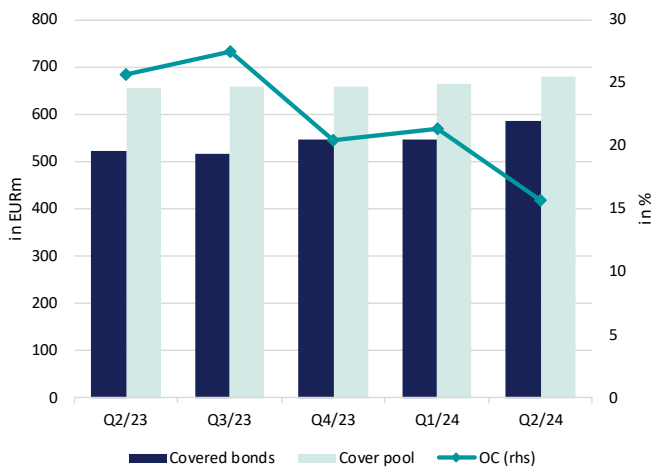
## Sparkasse Leverkusen

## Mortgage

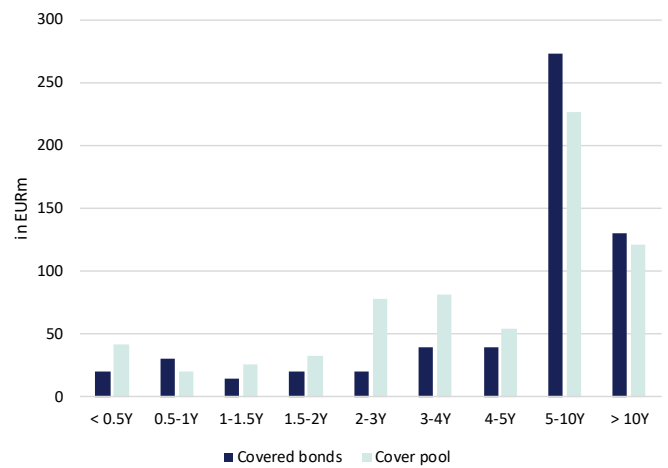
### Cover pool data

Cover pool (EURm)	680.2	Fixed interest (Cover pool)	97.5%
of which residential	86.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	7.2%	Avg. LTV (Mortgage lending value)	55.9%
of which substitution assets	5.9%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	587.8	Share of largest exposure tranche	53.6% (< EUR 0.3m)
OC (EURm)	92.4	Avg. seasoning	6.1y
OC	15.7%	Loans in arrears (>90 days)	0.00%

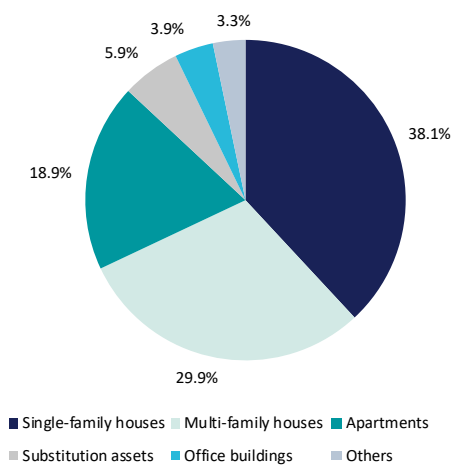
### Development of cover pool data



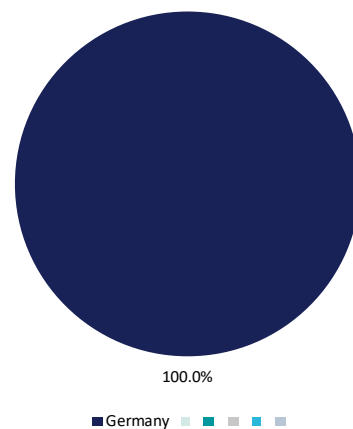
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

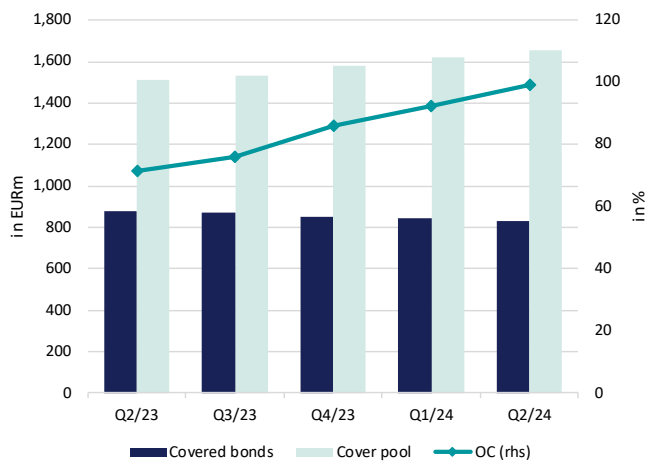
## Kreissparkasse Ludwigsburg

## Mortgage

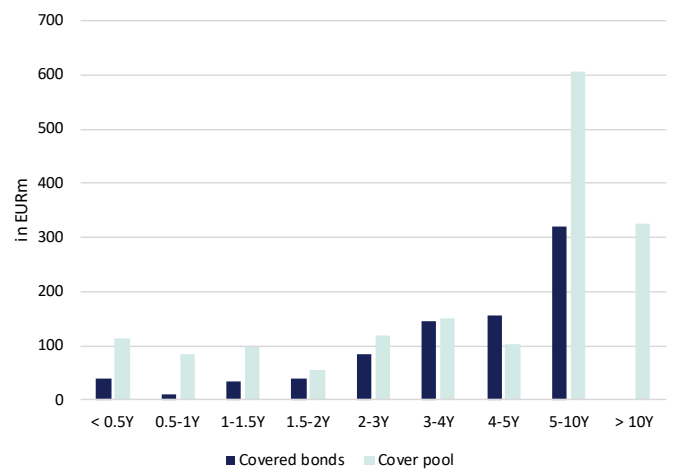
### Cover pool data

Cover pool (EURm)	1,651.4	Fixed interest (Cover pool)	96.8%
of which residential	79.6%	Fixed interest (Covered bonds)	100.0%
of which commercial	14.5%	Avg. LTV (Mortgage lending value)	55.8%
of which substitution assets	5.9%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	830.0	Share of largest exposure tranche	66.6% (< EUR 0.3m)
OC (EURm)	821.4	Avg. seasoning	5.5y
OC	99.0%	Loans in arrears (>90 days)	0.00%

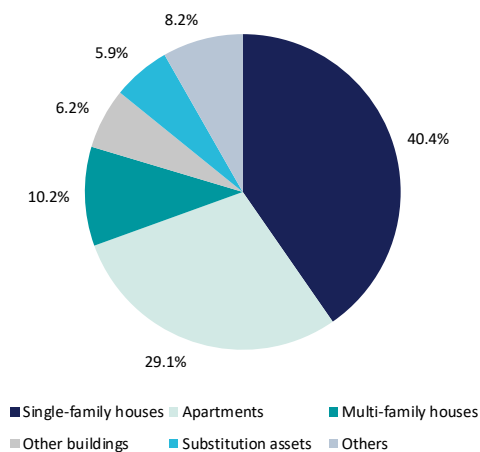
### Development of cover pool data



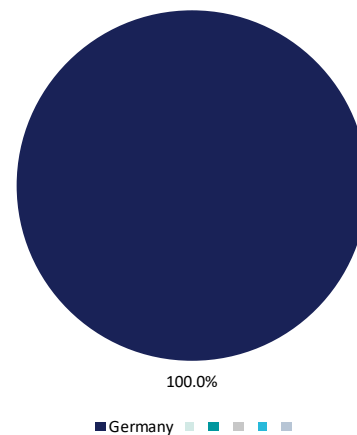
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

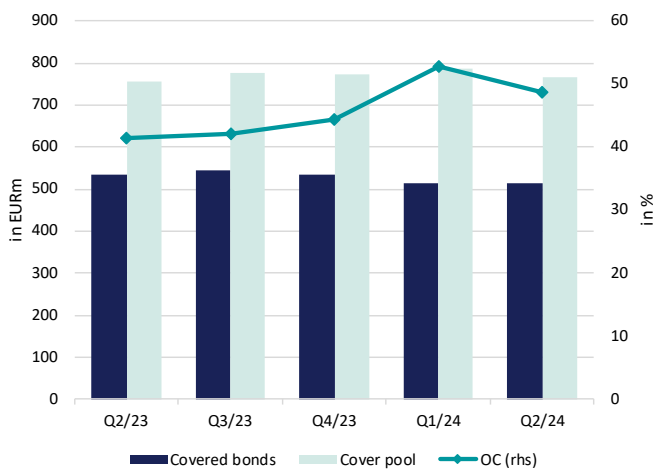
## Sparkasse zu Lübeck AG

## Mortgage

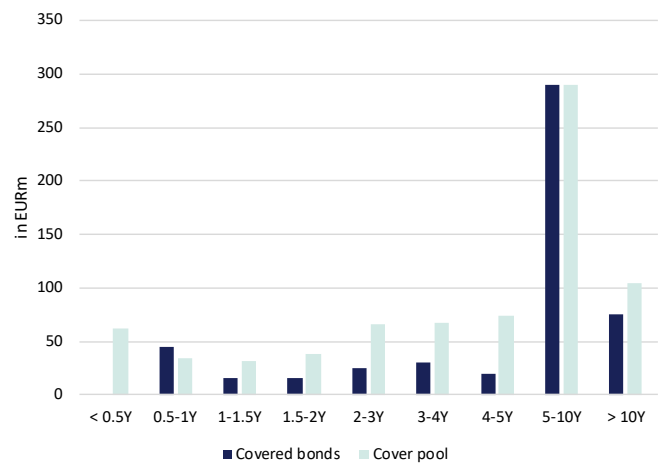
### Cover pool data

Cover pool (EURm)	765.8	Fixed interest (Cover pool)	94.9%
of which residential	78.0%	Fixed interest (Covered bonds)	90.3%
of which commercial	19.4%	Avg. LTV (Mortgage lending value)	52.5%
of which substitution assets	2.6%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	515.0	Share of largest exposure tranche	55.7% (< EUR 0.3m)
OC (EURm)	250.8	Avg. seasoning	6.8y
OC	48.7%	Loans in arrears (>90 days)	0.00%

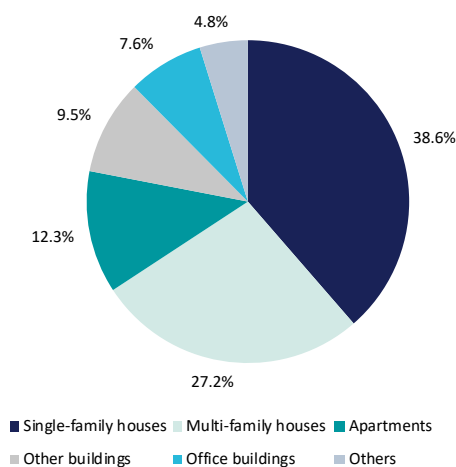
### Development of cover pool data



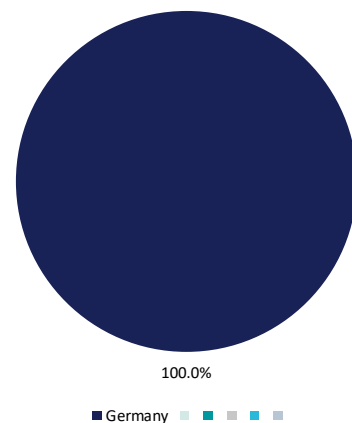
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

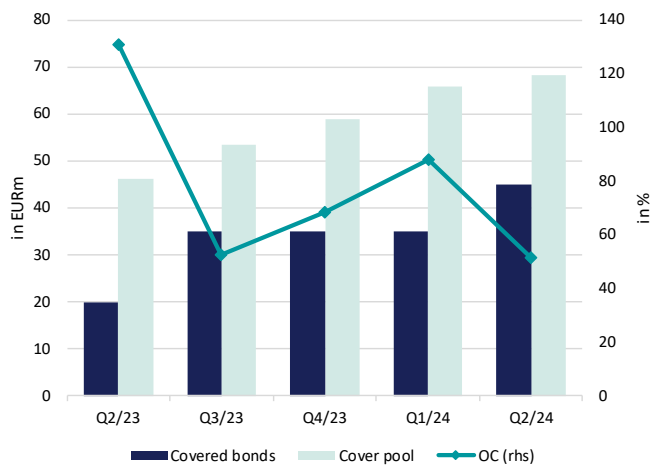
## Sparkasse Mittelholstein AG

## Mortgage

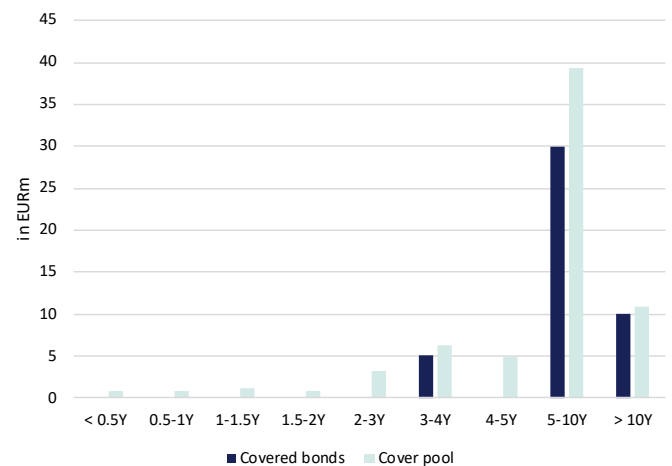
### Cover pool data

Cover pool (EURm)	68.3	Fixed interest (Cover pool)	100.0%
of which residential	85.4%	Fixed interest (Covered bonds)	100.0%
of which commercial	10.2%	Avg. LTV (Mortgage lending value)	56.5%
of which substitution assets	4.4%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	45.0	Share of largest exposure tranche	83.3% (< EUR 0.3m)
OC (EURm)	23.3	Avg. seasoning	3.4y
OC	51.8%	Loans in arrears (>90 days)	0.00%

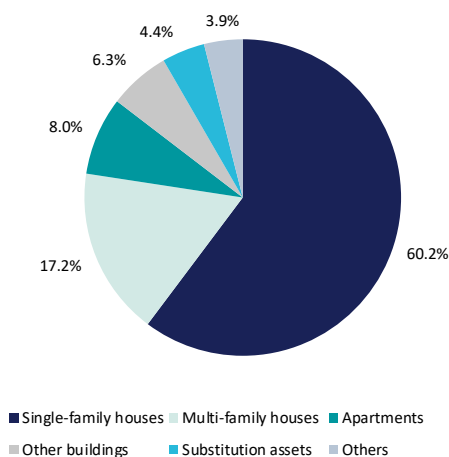
### Development of cover pool data



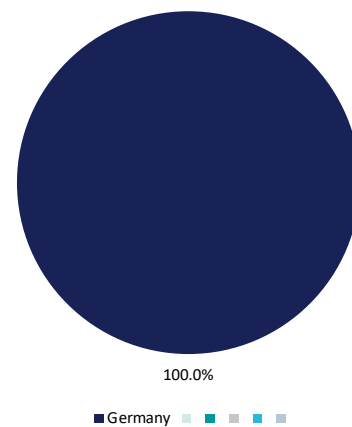
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



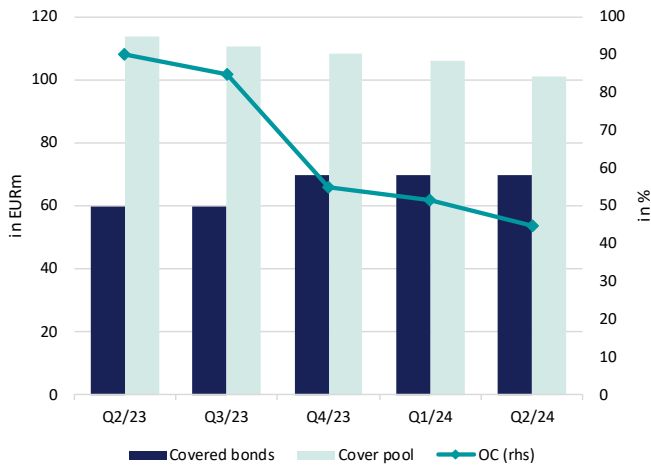
## Sparkasse Mittelthüringen

## Mortgage

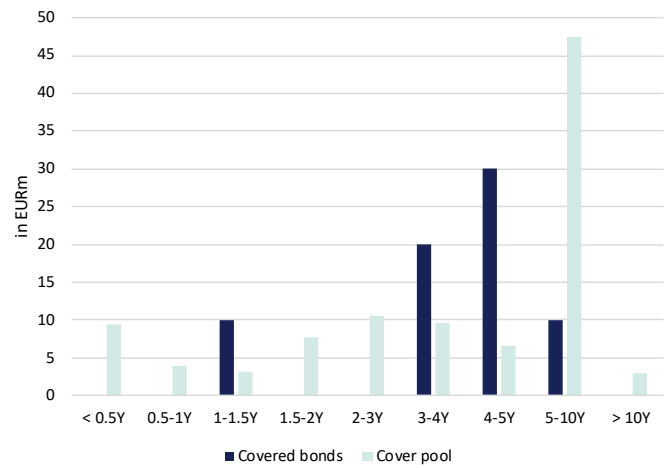
### Cover pool data

Cover pool (EURm)	101.3	Fixed interest (Cover pool)	92.6%
of which residential	88.1%	Fixed interest (Covered bonds)	100.0%
of which commercial	9.1%	Avg. LTV (Mortgage lending value)	54.3%
of which substitution assets	2.8%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	70.0	Share of largest exposure tranche	56.3% (< EUR 0.3m)
OC (EURm)	31.3	Avg. seasoning	8.5y
OC	44.7%	Loans in arrears (>90 days)	0.00%

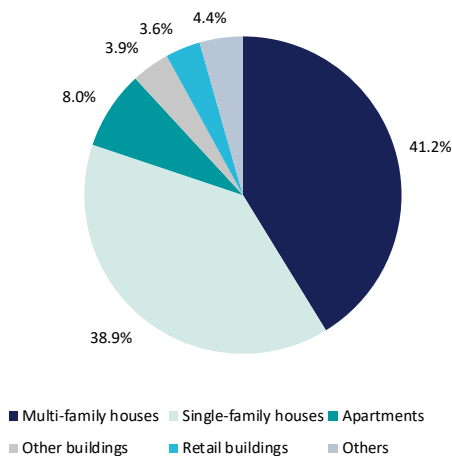
### Development of cover pool data



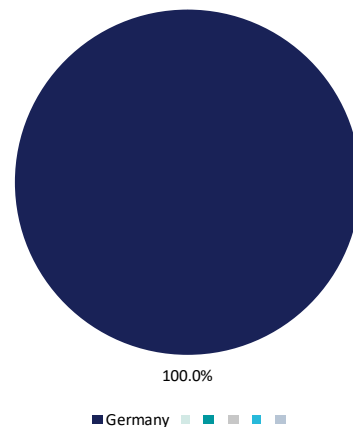
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



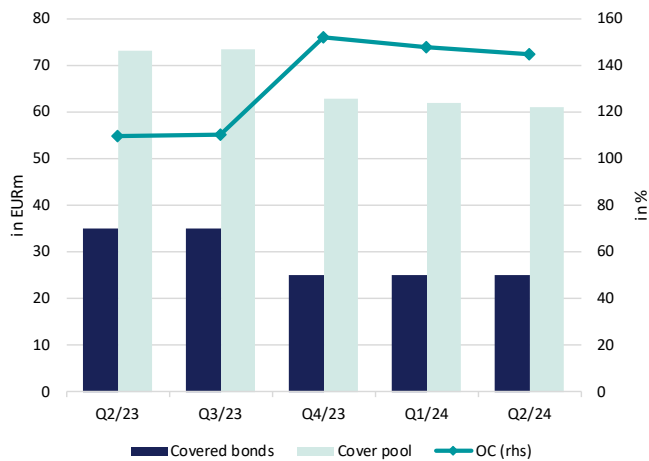
## Sparkasse Mittelthüringen

## Public sector

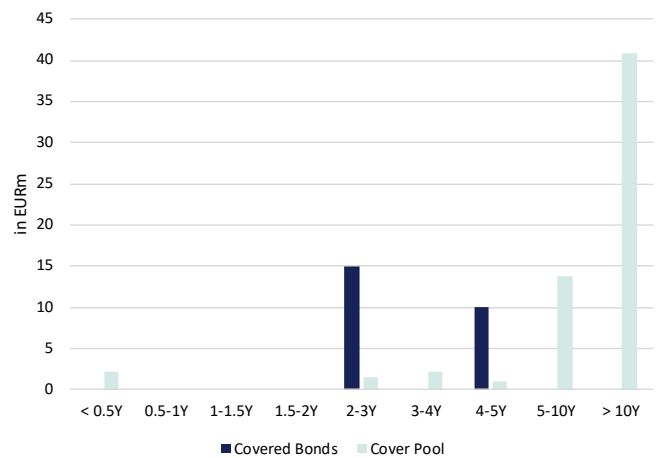
### Cover pool data

Cover pool (EURm)	61.2	Fixed interest (Cover pool)	96.6%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	25.0	Share of largest exposure tranche	68.4% (< EUR 10m)
OC (EURm)	36.2	Loans in arrears (>90 days)	0.00%
OC	144.8%		

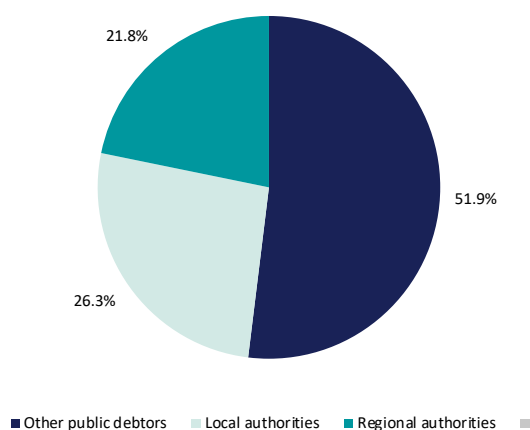
### Development of cover pool data



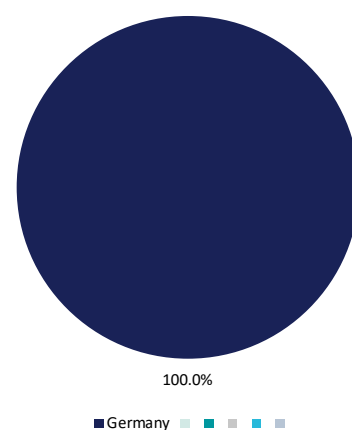
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



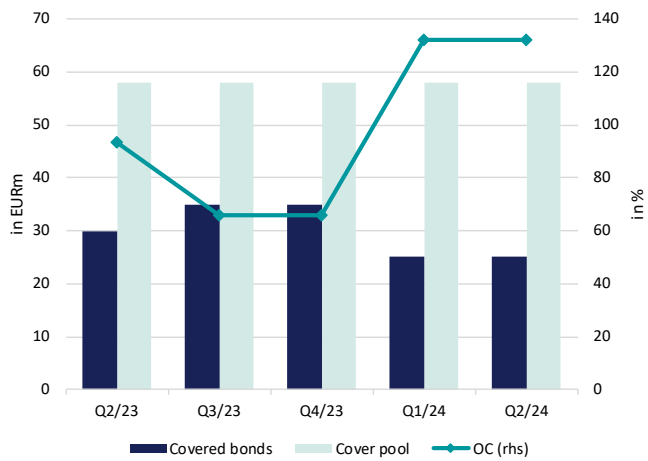
## Stadtsparkasse Mönchengladbach

## Public sector

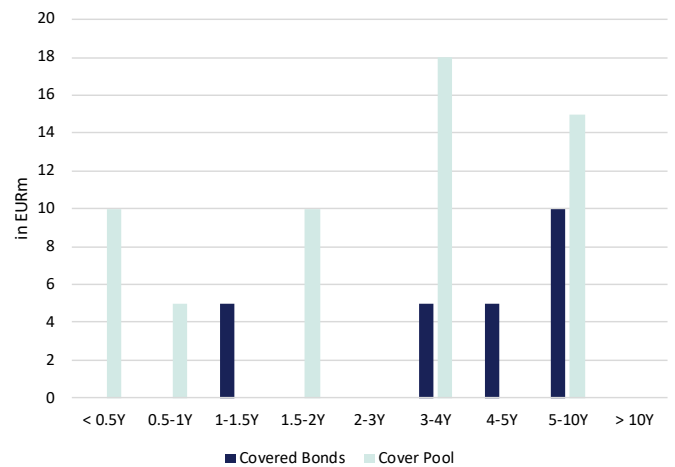
### Cover pool data

Cover pool (EURm)	58.0	Fixed interest (Cover pool)	100.0%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	25.0	Share of largest exposure tranche	75.9% (< EUR 10m)
OC (EURm)	33.0	Loans in arrears (>90 days)	0.00%
OC	132.0%		

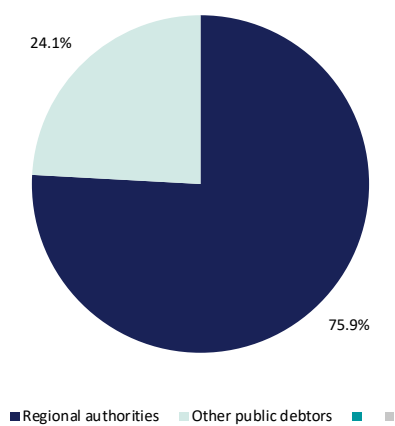
### Development of cover pool data



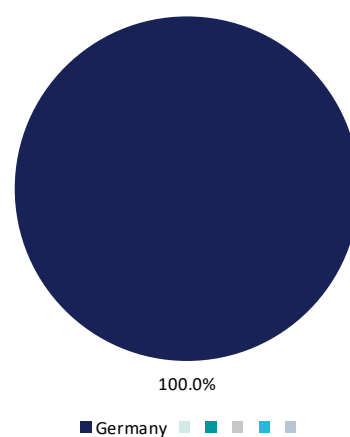
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research



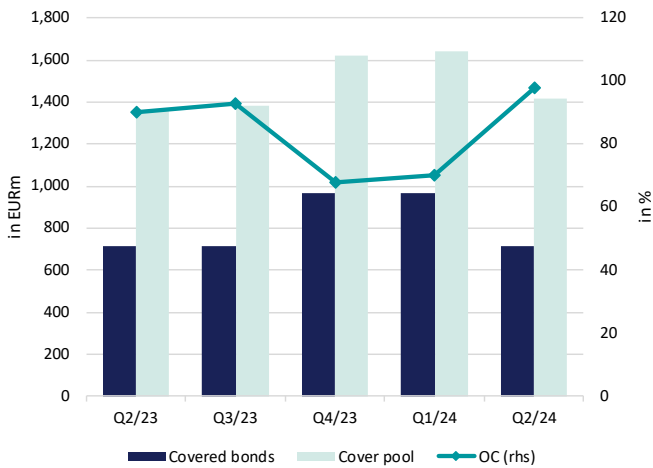
## Stadtsparkasse München

## Mortgage

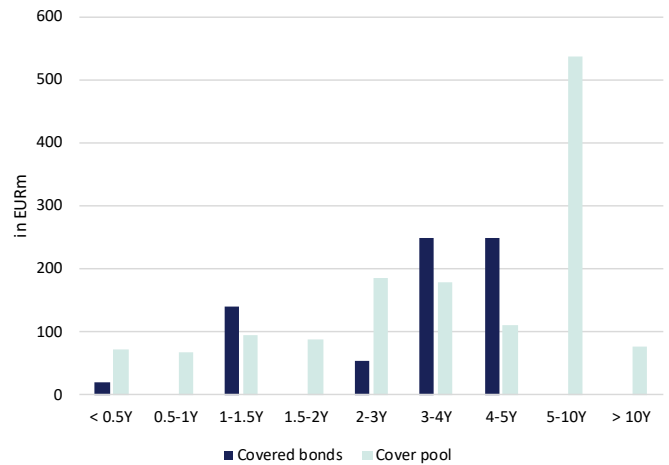
### Cover pool data

Cover pool (EURm)	1,414.9	Fixed interest (Cover pool)	99.1%
of which residential	89.0%	Fixed interest (Covered bonds)	100.0%
of which commercial	6.6%	Avg. LTV (Mortgage lending value)	51.4%
of which substitution assets	4.5%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	715.0	Share of largest exposure tranche	44.5% (EUR 0.3-1m)
OC (EURm)	699.9	Avg. seasoning	6.6y
OC	97.9%	Loans in arrears (>90 days)	0.00%

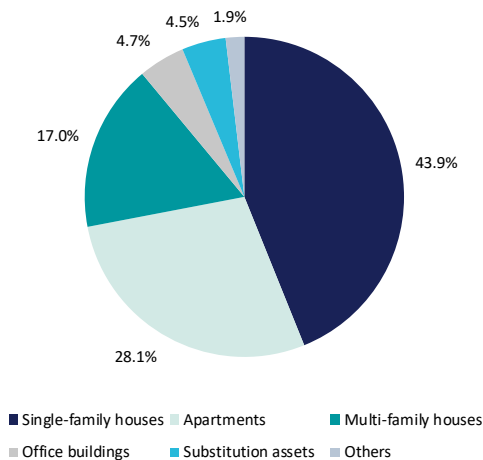
### Development of cover pool data



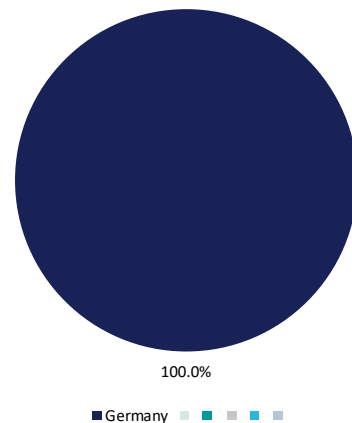
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



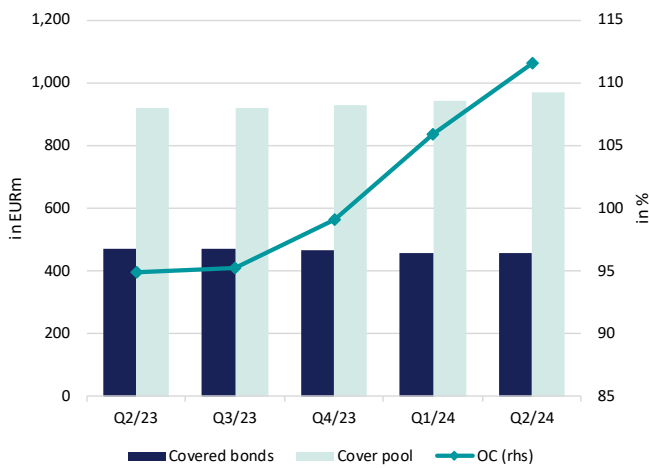
## Sparkasse Münsterland Ost

## Mortgage

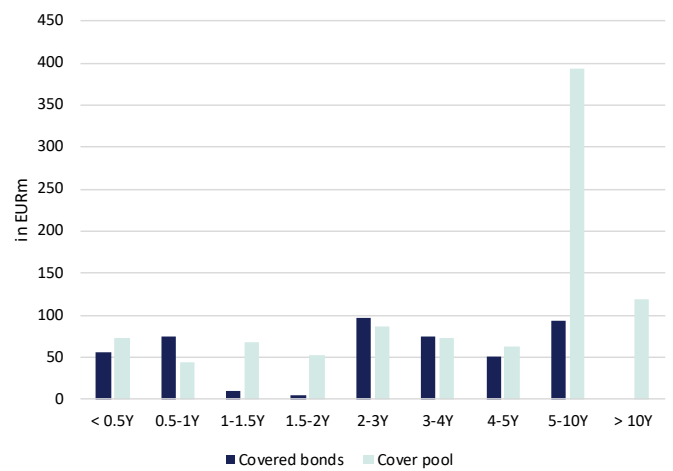
### Cover pool data

Cover pool (EURm)	969.4	Fixed interest (Cover pool)	87.4%
of which residential	69.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	22.3%	Avg. LTV (Mortgage lending value)	52.3%
of which substitution assets	7.7%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	458.1	Share of largest exposure tranche	54.3% (< EUR 0.3m)
OC (EURm)	511.3	Avg. seasoning	6.7y
OC	111.6%	Loans in arrears (>90 days)	0.00%

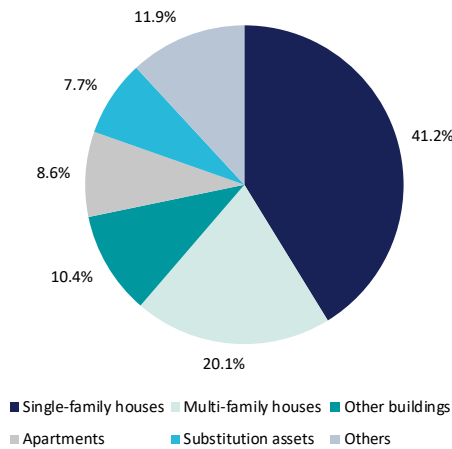
### Development of cover pool data



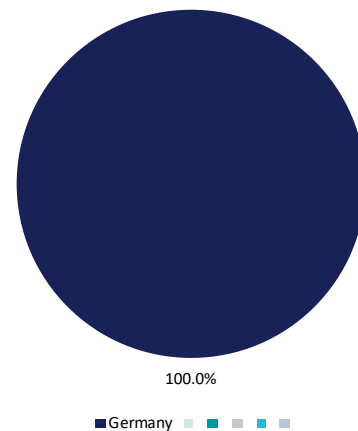
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



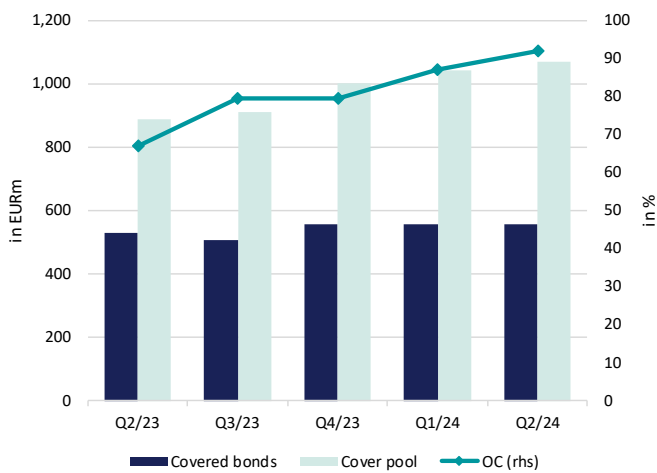
## Nassauische Sparkasse

## Mortgage

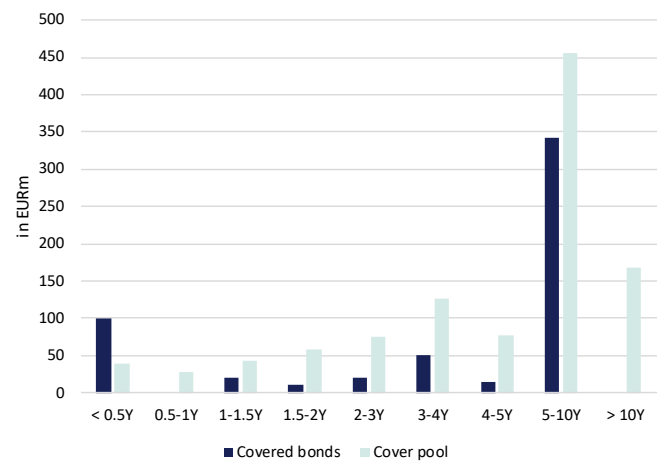
### Cover pool data

Cover pool (EURm)	1,071.2	Fixed interest (Cover pool)	88.5%
of which residential	78.3%	Fixed interest (Covered bonds)	100.0%
of which commercial	10.5%	Avg. LTV (Mortgage lending value)	56.2%
of which substitution assets	11.2%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	558.0	Share of largest exposure tranche	50.0% (< EUR 0.3m)
OC (EURm)	513.2	Avg. seasoning	5.1y
OC	92.0%	Loans in arrears (>90 days)	0.00%

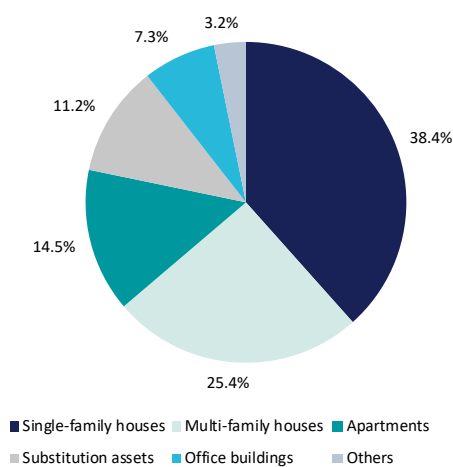
### Development of cover pool data



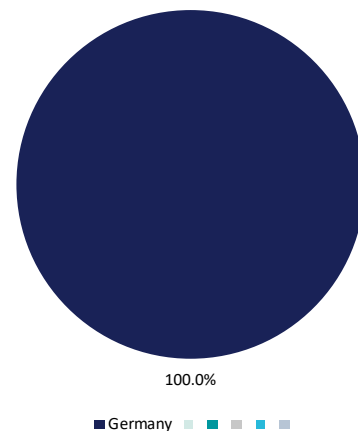
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

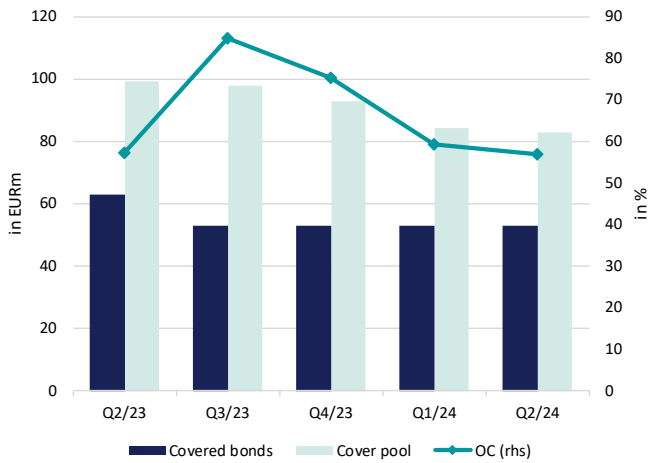
## Nassauische Sparkasse

## Public sector

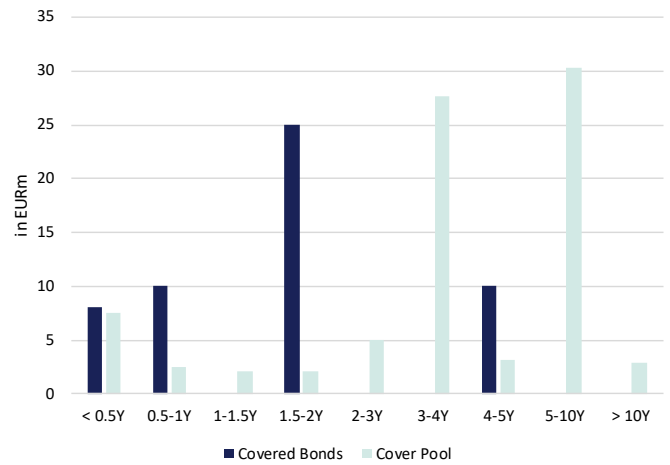
### Cover pool data

Cover pool (EURm)	83.2	Fixed interest (Cover pool)	73.5%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	53.0	Share of largest exposure tranche	60.4% (< EUR 10m)
OC (EURm)	30.2	Loans in arrears (>90 days)	0.00%
OC	56.9%		

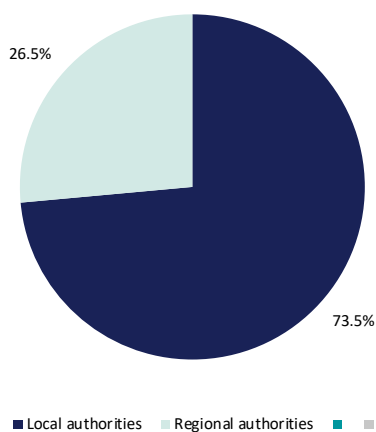
### Development of cover pool data



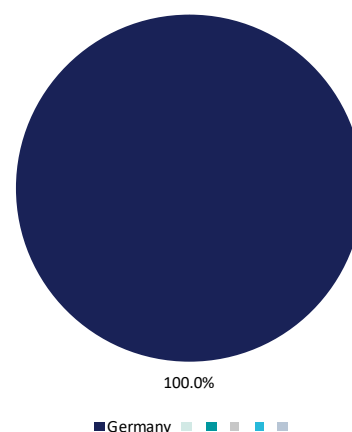
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research

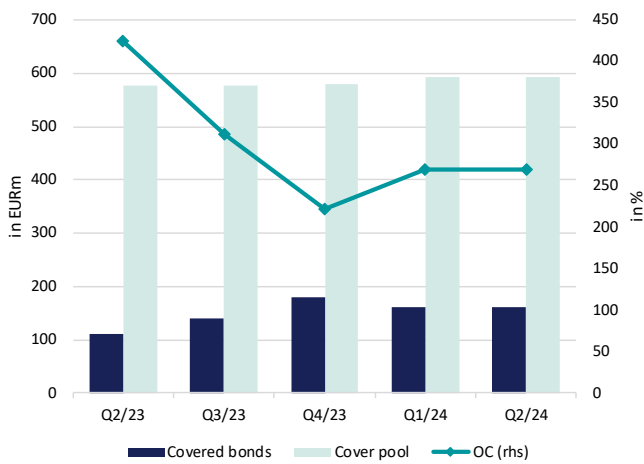
## Sparkasse Neuss

## Mortgage

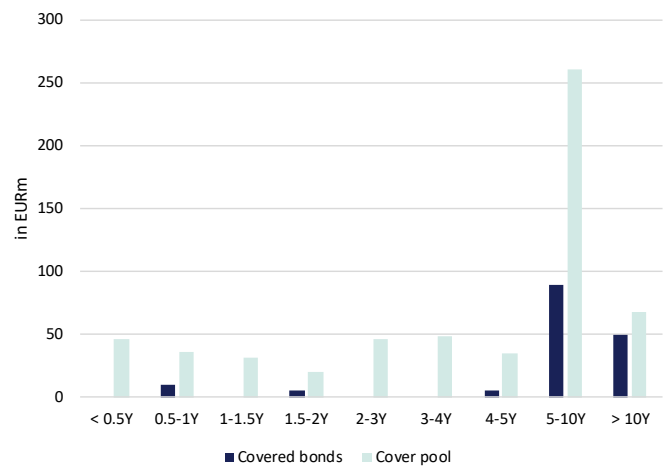
### Cover pool data

Cover pool (EURm)	591.8	Fixed interest (Cover pool)	96.4%
of which residential	87.3%	Fixed interest (Covered bonds)	100.0%
of which commercial	10.4%	Avg. LTV (Mortgage lending value)	53.2%
of which substitution assets	2.4%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	160.0	Share of largest exposure tranche	66.7% (< EUR 0.3m)
OC (EURm)	431.8	Avg. seasoning	6.7y
OC	269.9%	Loans in arrears (>90 days)	0.00%

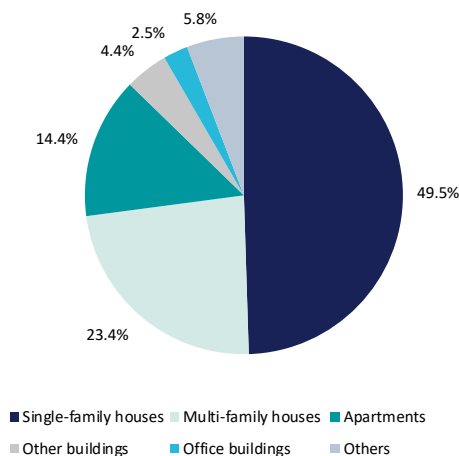
### Development of cover pool data



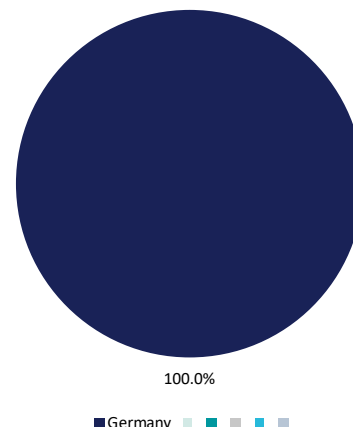
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



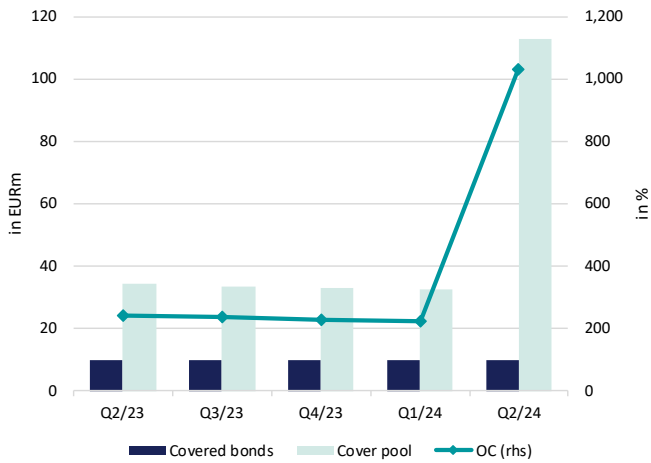
## Sparkasse Neuss

## Public sector

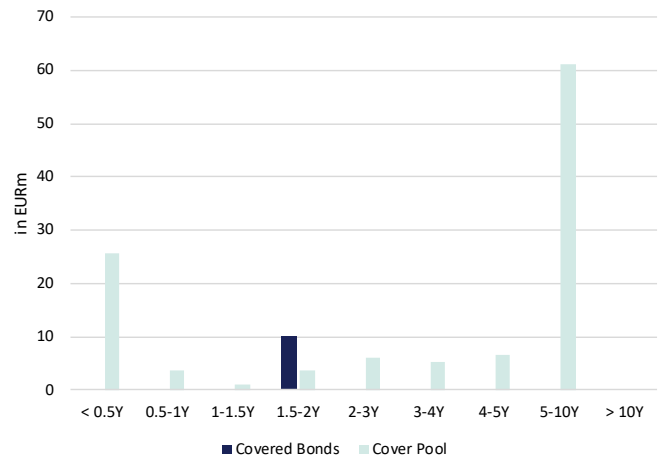
### Cover pool data

Cover pool (EURm)	113.0	Fixed interest (Cover pool)	79.2%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	10.0	Share of largest exposure tranche	69.9% (EUR 10-100m)
OC (EURm)	103.0	Loans in arrears (>90 days)	0.00%
OC	1030.5%		

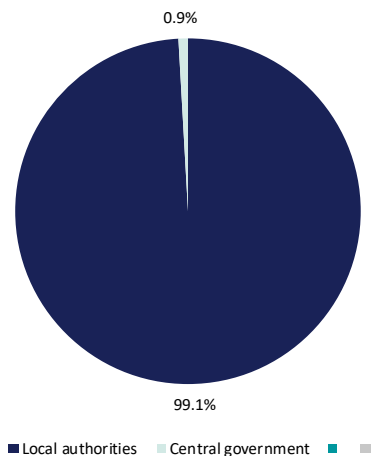
### Development of cover pool data



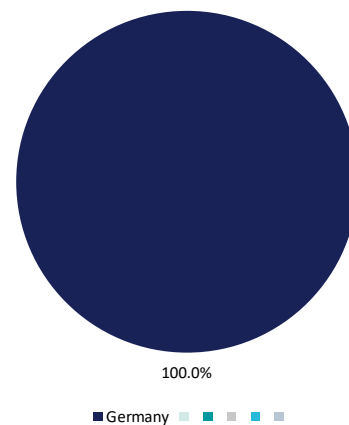
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



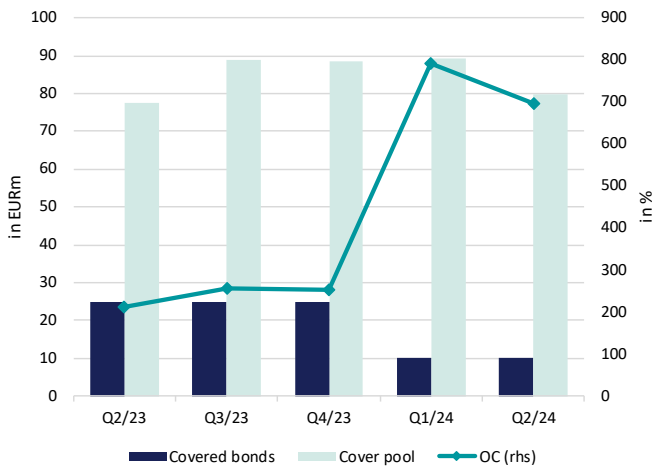
# Niederrheinische Sparkasse RheinLippe

# Mortgage

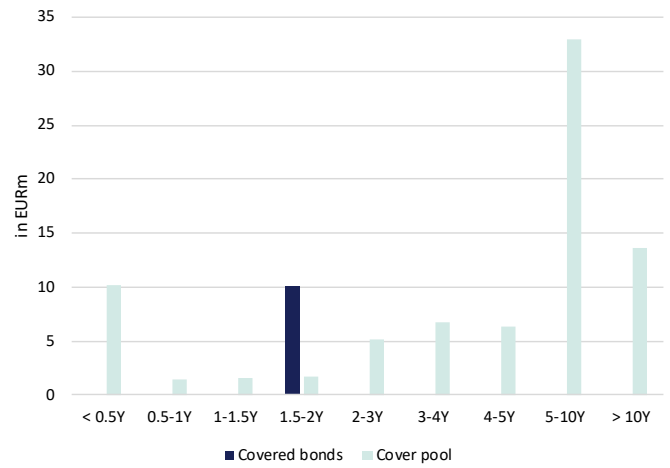
## Cover pool data

Cover pool (EURm)	79.7	Fixed interest (Cover pool)	99.9%
of which residential	88.7%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	55.8%
of which substitution assets	11.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	10.0	Share of largest exposure tranche	92.2% (< EUR 0.3m)
OC (EURm)	69.7	Avg. seasoning	6.5y
OC	696.6%	Loans in arrears (>90 days)	0.00%

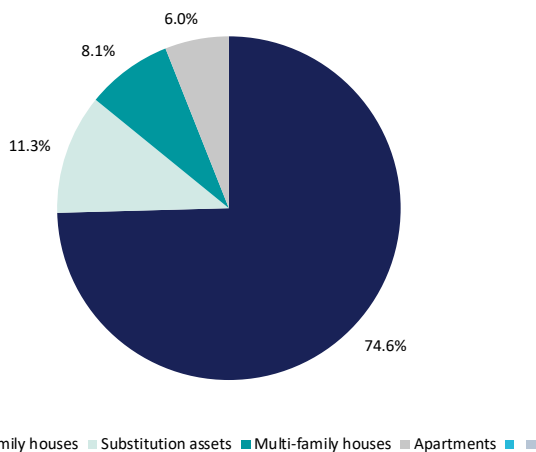
## Development of cover pool data



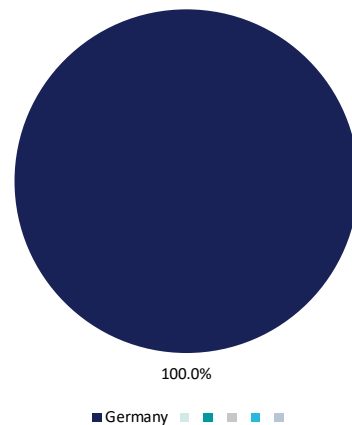
## Maturity structure



## Composition of cover pool



## Regional distribution of properties



Source: vdp/DSGV, NORD/LB Floor Research

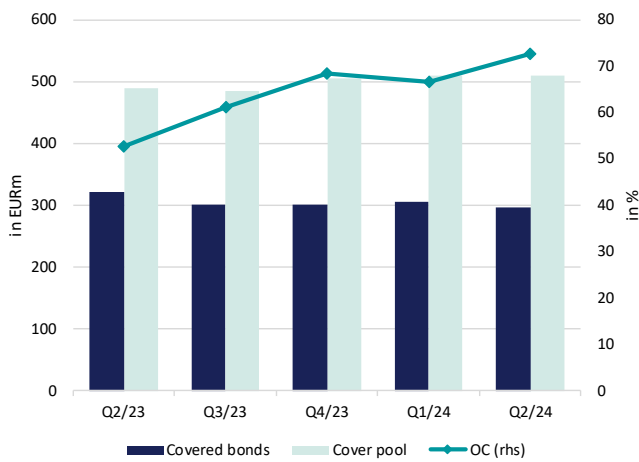
## Nord-Ostsee Sparkasse

## Mortgage

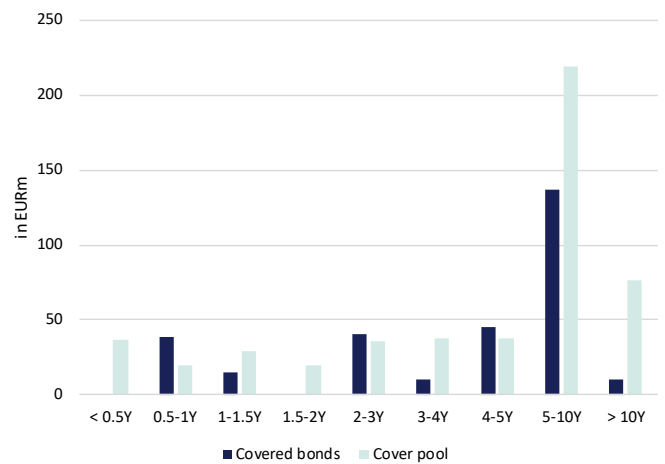
### Cover pool data

Cover pool (EURm)	511.3	Fixed interest (Cover pool)	97.2%
of which residential	83.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	11.1%	Avg. LTV (Mortgage lending value)	51.9%
of which substitution assets	4.9%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	296.0	Share of largest exposure tranche	68.0% (< EUR 0.3m)
OC (EURm)	215.3	Avg. seasoning	7.0y
OC	72.7%	Loans in arrears (>90 days)	0.00%

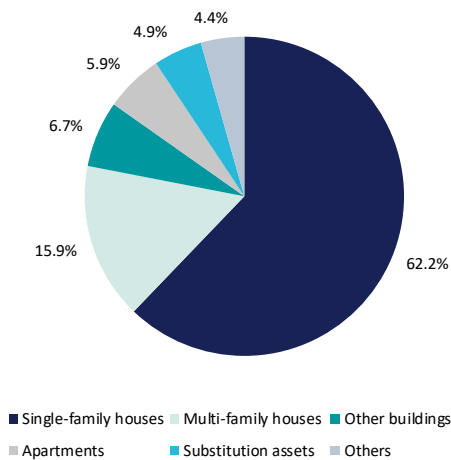
### Development of cover pool data



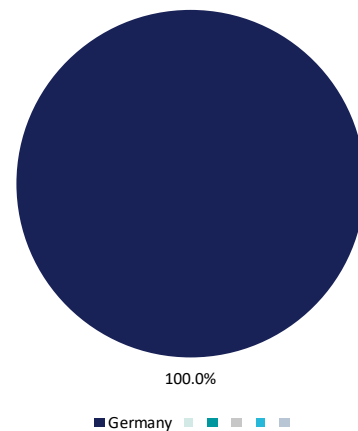
### Maturity structure



### Composition of cover pool



### Regional distribution of properties





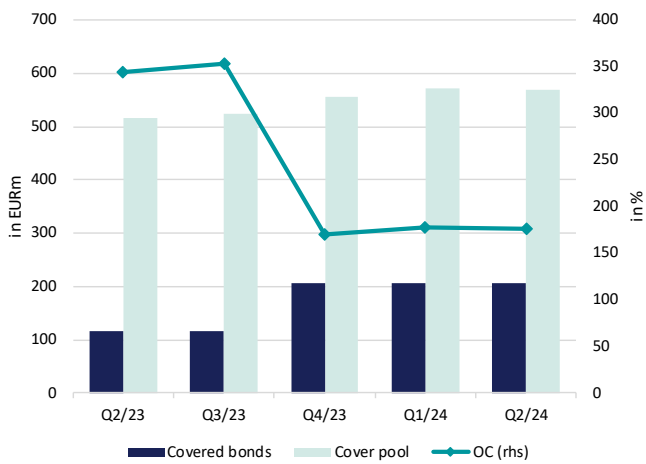
## Sparkasse Nürnberg

## Mortgage

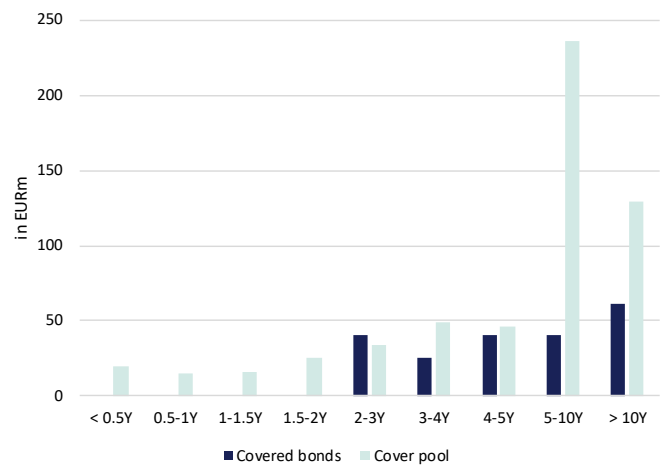
### Cover pool data

Cover pool (EURm)	570.0	Fixed interest (Cover pool)	100.0%
of which residential	91.3%	Fixed interest (Covered bonds)	100.0%
of which commercial	4.3%	Avg. LTV (Mortgage lending value)	55.7%
of which substitution assets	4.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	206.0	Share of largest exposure tranche	82.9% (< EUR 0.3m)
OC (EURm)	364.0	Avg. seasoning	5.0y
OC	176.7%	Loans in arrears (>90 days)	0.00%

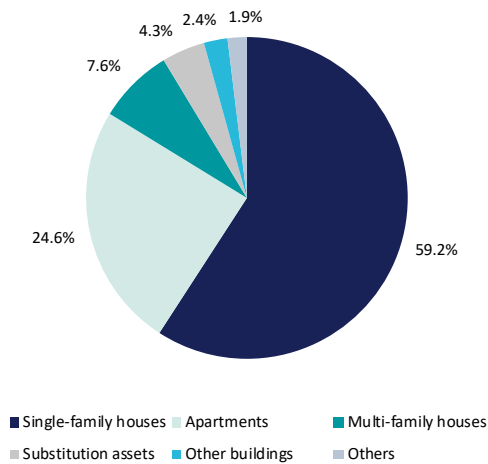
### Development of cover pool data



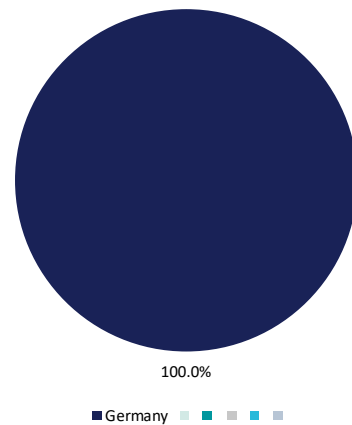
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



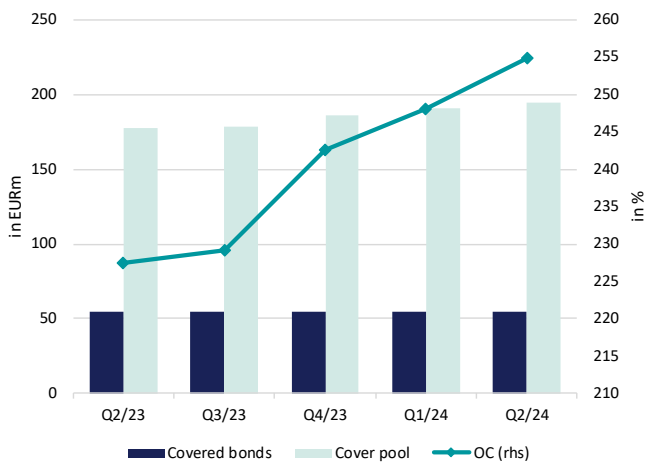
## Landessparkasse zu Oldenburg

## Mortgage

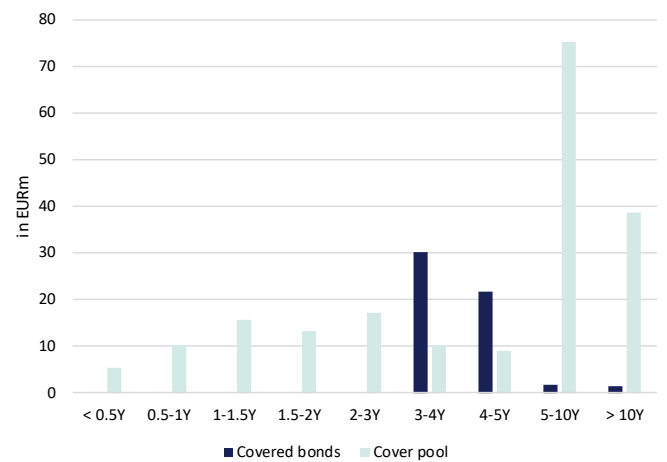
### Cover pool data

Cover pool (EURm)	194.7	Fixed interest (Cover pool)	97.4%
of which residential	97.4%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	54.9%
of which substitution assets	2.6%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	54.8	Share of largest exposure tranche	87.0% (< EUR 0.3m)
OC (EURm)	139.8	Avg. seasoning	6.2y
OC	254.9%	Loans in arrears (>90 days)	0.00%

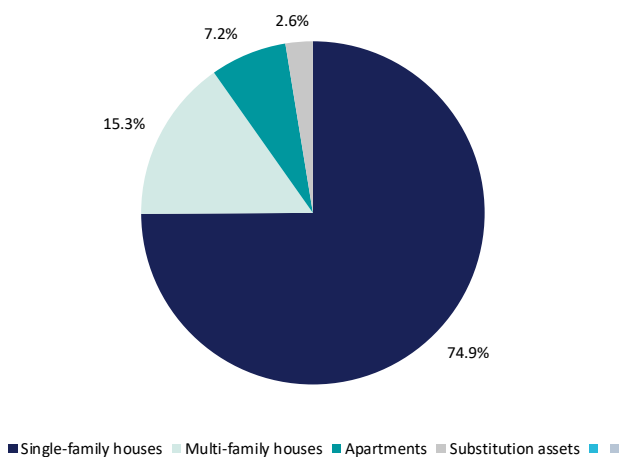
### Development of cover pool data



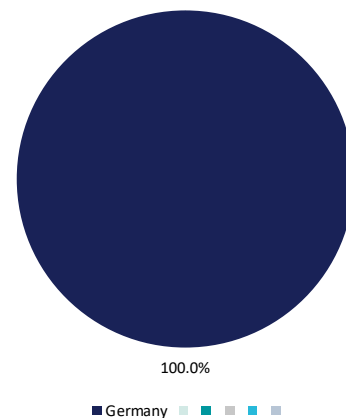
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



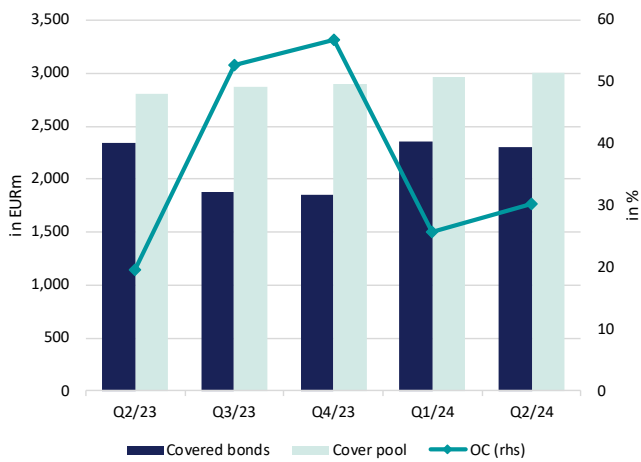
## Sparkasse Pforzheim Calw

## Mortgage

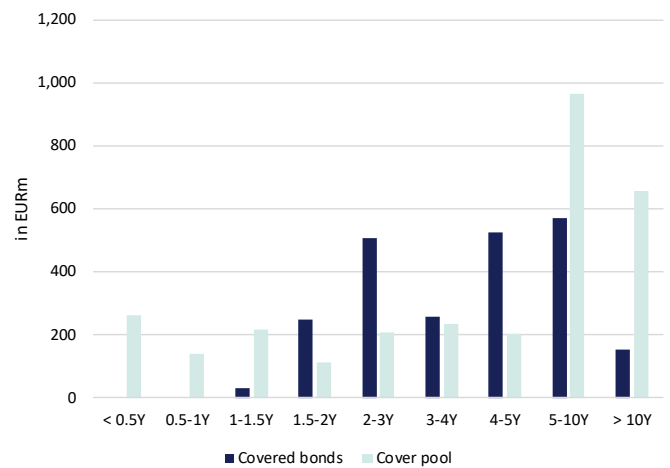
### Cover pool data

Cover pool (EURm)	3,001.7	Fixed interest (Cover pool)	92.8%
of which residential	83.3%	Fixed interest (Covered bonds)	100.0%
of which commercial	12.5%	Avg. LTV (Mortgage lending value)	53.3%
of which substitution assets	4.2%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	2,303.1	Share of largest exposure tranche	76.0% (< EUR 0.3m)
OC (EURm)	698.6	Avg. seasoning	5.1y
OC	30.3%	Loans in arrears (>90 days)	0.00%

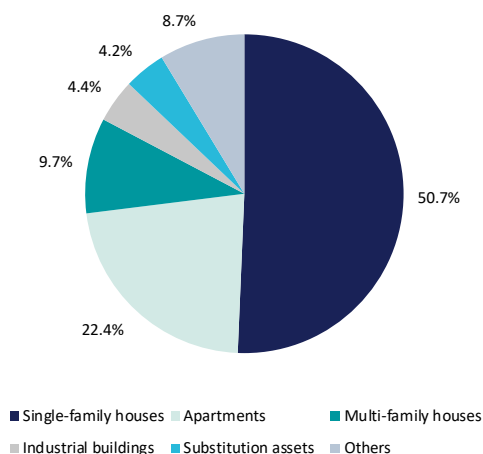
### Development of cover pool data



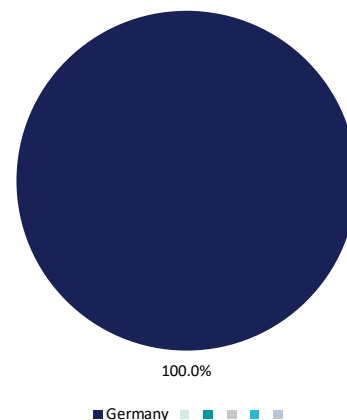
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



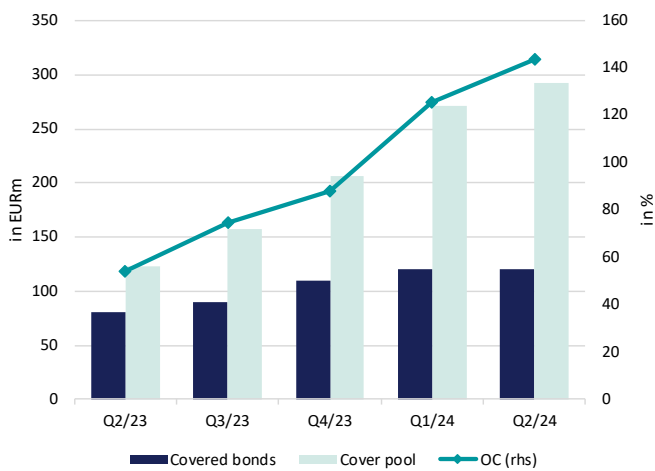
## Sparkasse Rosenheim-Bad Aibling

## Mortgage

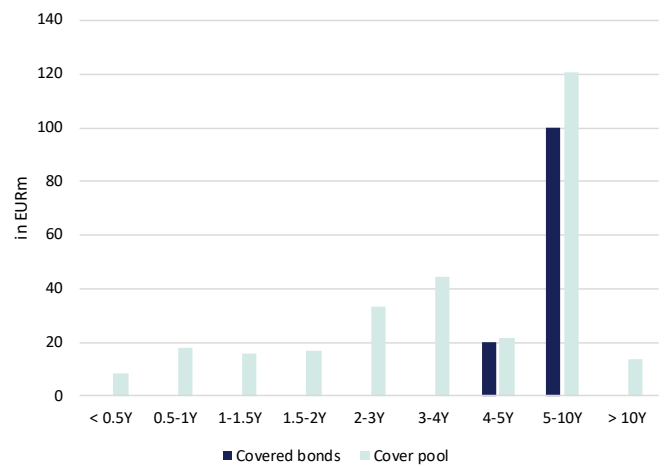
### Cover pool data

Cover pool (EURm)	292.3	Fixed interest (Cover pool)	99.7%
of which residential	94.2%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	48.9%
of which substitution assets	5.8%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	120.0	Share of largest exposure tranche	73.1% (< EUR 0.3m)
OC (EURm)	172.3	Avg. seasoning	4.4y
OC	143.5%	Loans in arrears (>90 days)	0.00%

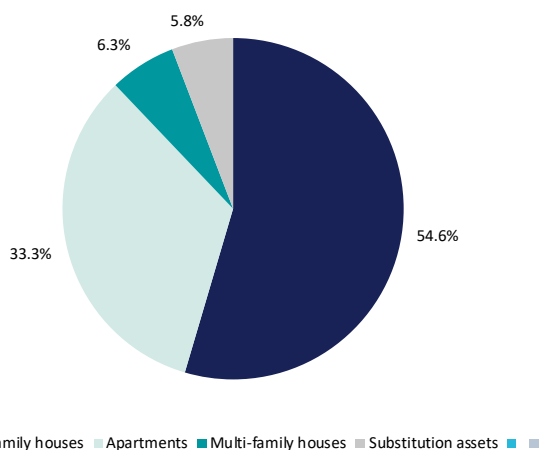
### Development of cover pool data



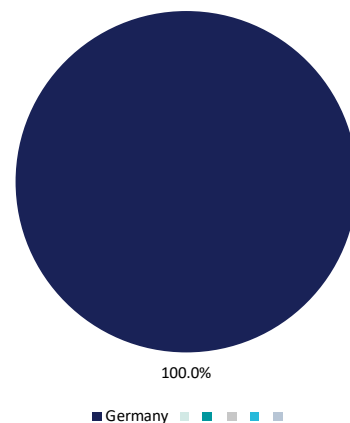
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



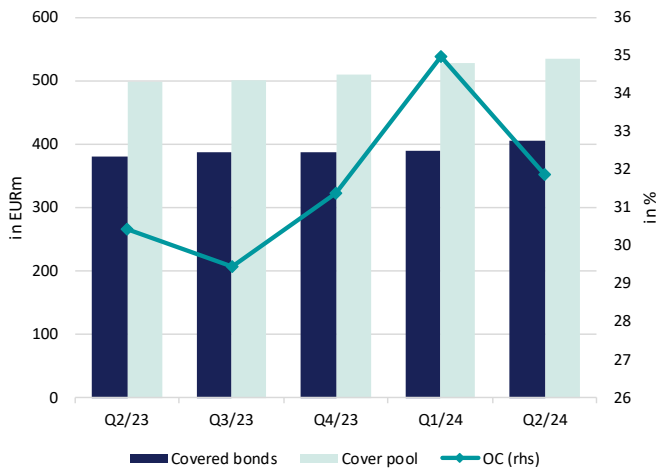
## Sparkasse Südholstein

## Mortgage

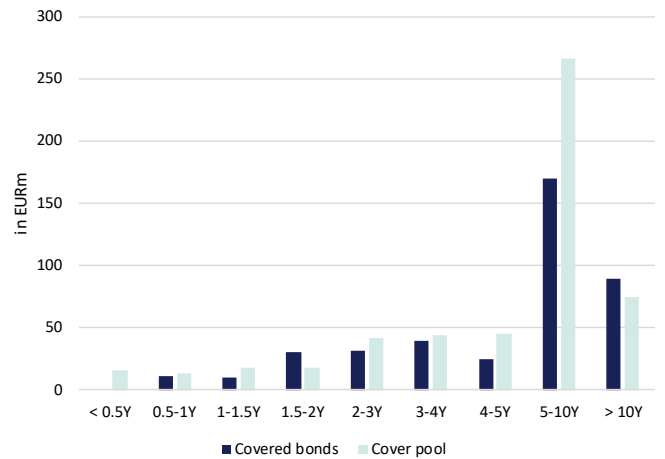
### Cover pool data

Cover pool (EURm)	535.4	Fixed interest (Cover pool)	99.7%
of which residential	92.2%	Fixed interest (Covered bonds)	100.0%
of which commercial	3.2%	Avg. LTV (Mortgage lending value)	55.6%
of which substitution assets	4.6%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	406.0	Share of largest exposure tranche	71.2% (< EUR 0.3m)
OC (EURm)	129.4	Avg. seasoning	5.3y
OC	31.9%	Loans in arrears (>90 days)	0.00%

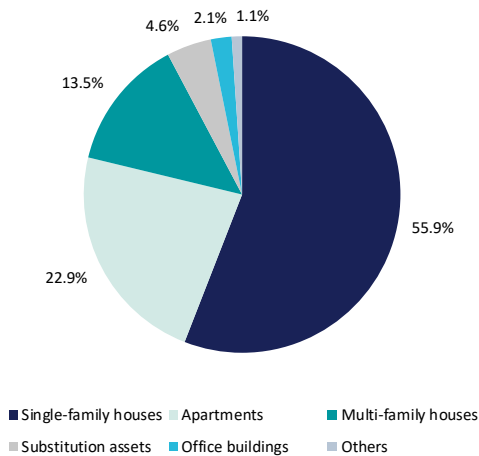
### Development of cover pool data



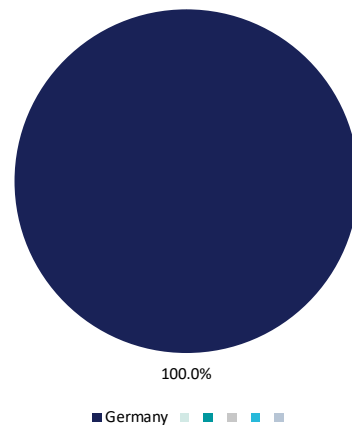
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



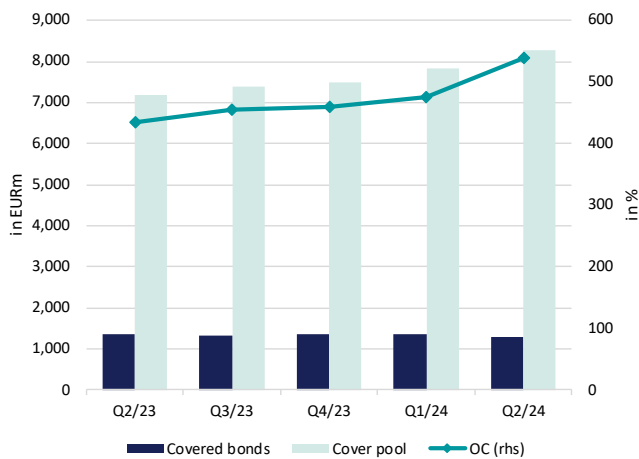
## Sparkasse KölnBonn

## Mortgage

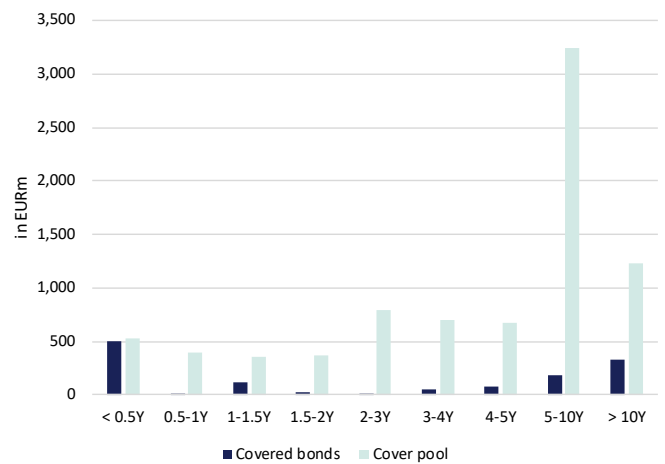
### Cover pool data

Cover pool (EURm)	8,259.4	Fixed interest (Cover pool)	92.6%
of which residential	72.1%	Fixed interest (Covered bonds)	100.0%
of which commercial	21.1%	Avg. LTV (Mortgage lending value)	53.5%
of which substitution assets	6.8%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	1,292.0	Share of largest exposure tranche	43.7% (< EUR 0.3m)
OC (EURm)	6,967.4	Avg. seasoning	5.9y
OC	539.3%	Loans in arrears (>90 days)	0.00%

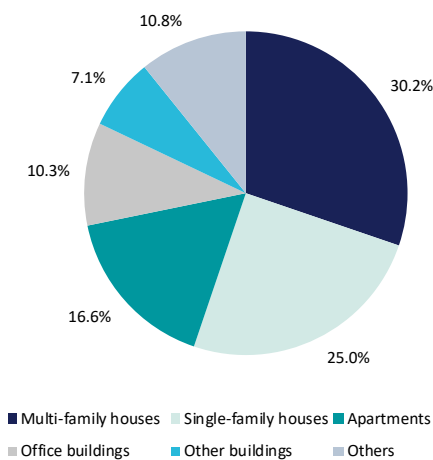
### Development of cover pool data



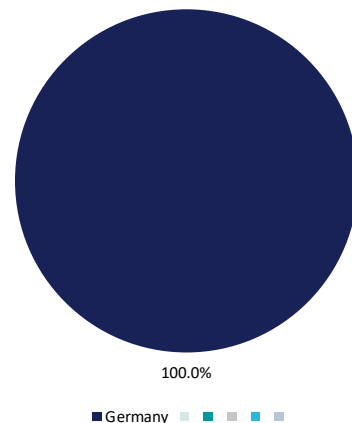
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



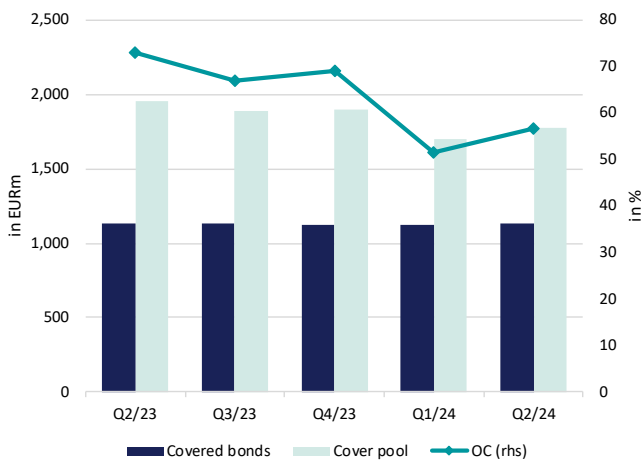
## Stadtsparkasse Düsseldorf

## Mortgage

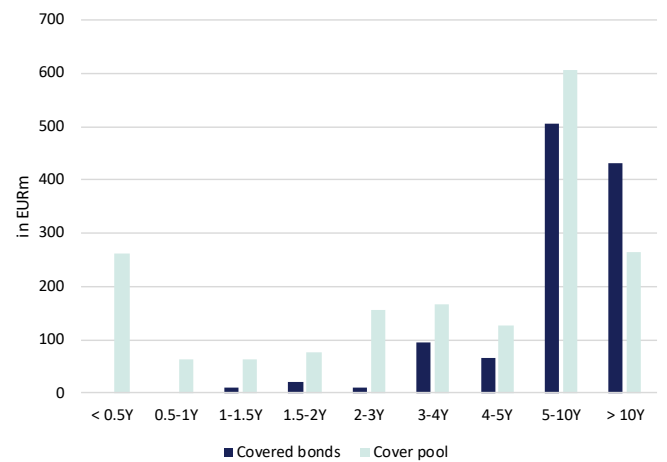
### Cover pool data

Cover pool (EURm)	1,780.8	Fixed interest (Cover pool)	88.6%
of which residential	71.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	22.8%	Avg. LTV (Mortgage lending value)	55.1%
of which substitution assets	5.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	1,136.3	Share of largest exposure tranche	42.3% (< EUR 0.3m)
OC (EURm)	644.5	Avg. seasoning	7.6y
OC	56.7%	Loans in arrears (>90 days)	0.00%

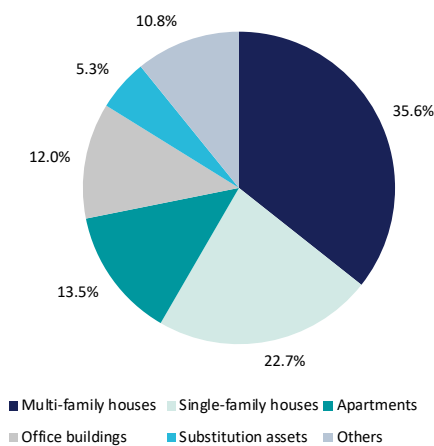
### Development of cover pool data



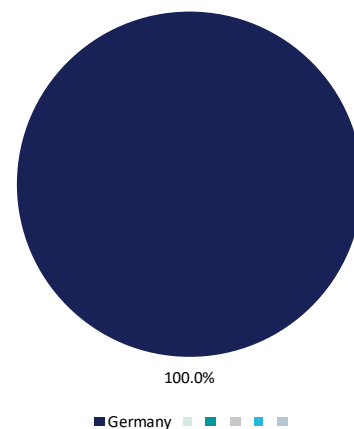
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



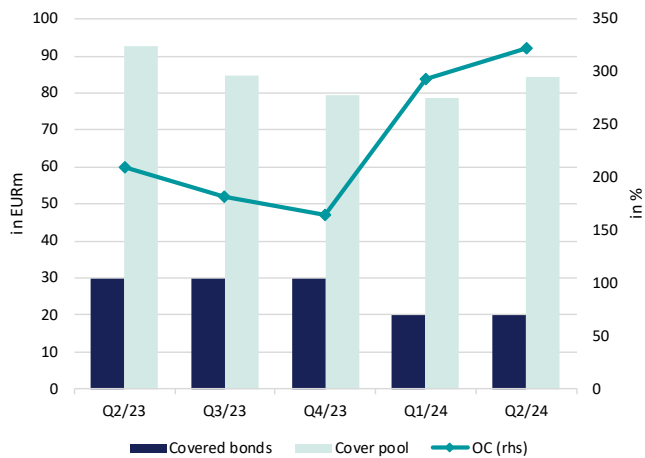
## Stadtsparkasse Düsseldorf

## Public sector

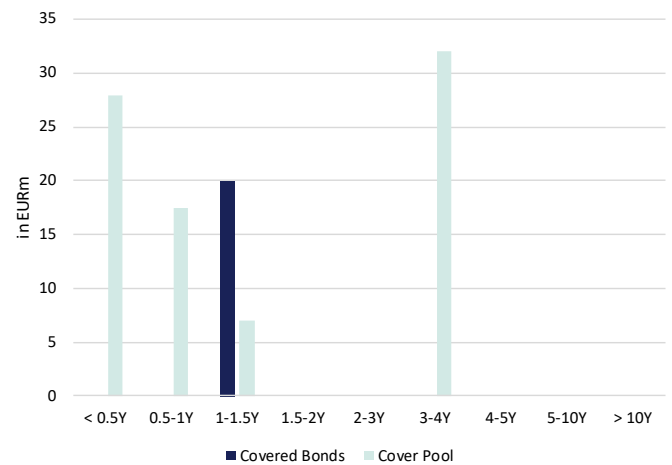
### Cover pool data

Cover pool (EURm)	84.3	Fixed interest (Cover pool)	83.4%
of which substitution assets	0.0%	Fixed interest (Covered bonds)	100.0%
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	20.0	Share of largest exposure tranche	67.5% (EUR 10-100m)
OC (EURm)	64.3	Loans in arrears (>90 days)	0.00%
OC	321.7%		

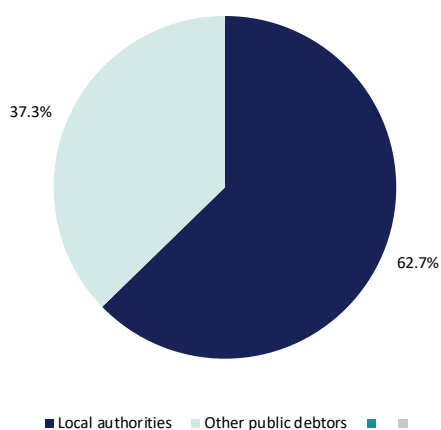
### Development of cover pool data



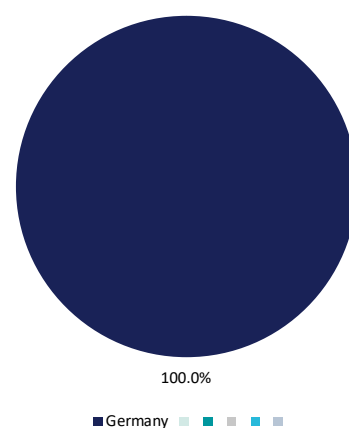
### Maturity structure



### Composition of primary assets



### Regional distribution of claims



Source: vdp/DSGV, NORD/LB Floor Research



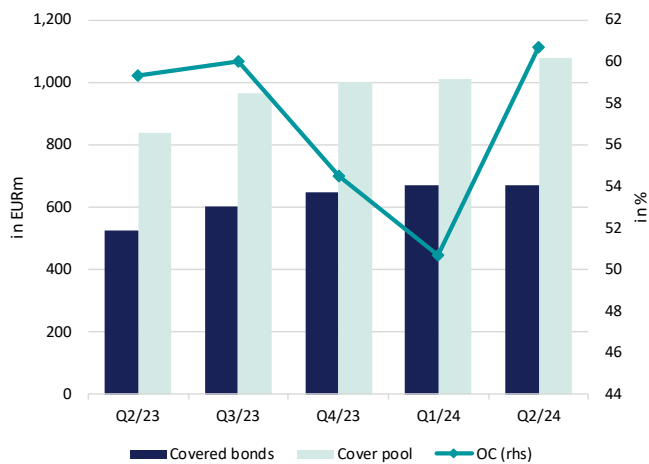
## Taunus Sparkasse

## Mortgage

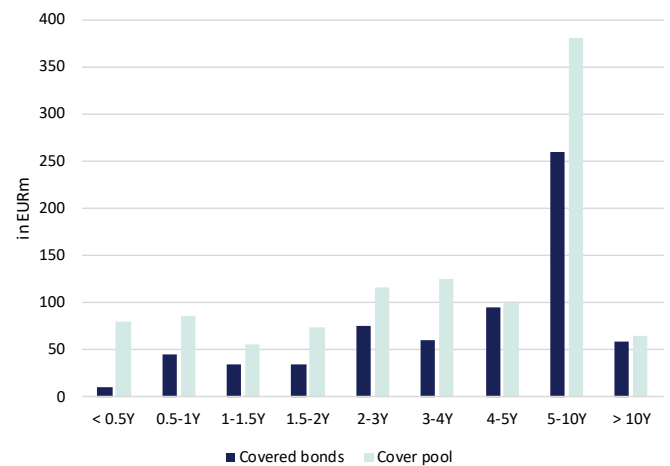
### Cover pool data

Cover pool (EURm)	1,081.6	Fixed interest (Cover pool)	97.3%
of which residential	75.6%	Fixed interest (Covered bonds)	100.0%
of which commercial	16.3%	Avg. LTV (Mortgage lending value)	53.3%
of which substitution assets	8.0%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	673.0	Share of largest exposure tranche	43.0% (< EUR 0.3m)
OC (EURm)	408.6	Avg. seasoning	6.3y
OC	60.7%	Loans in arrears (>90 days)	0.00%

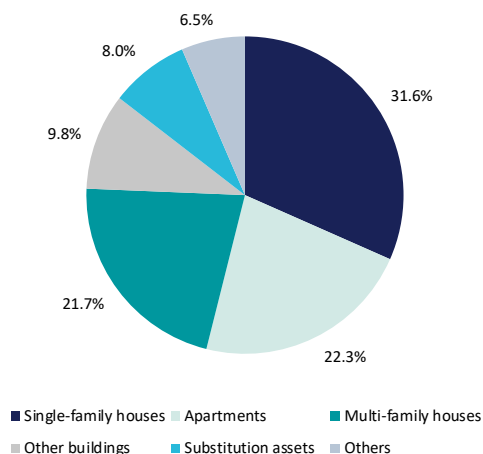
### Development of cover pool data



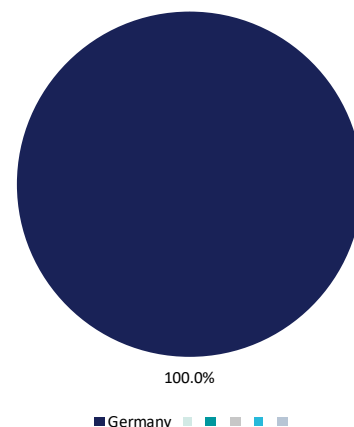
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



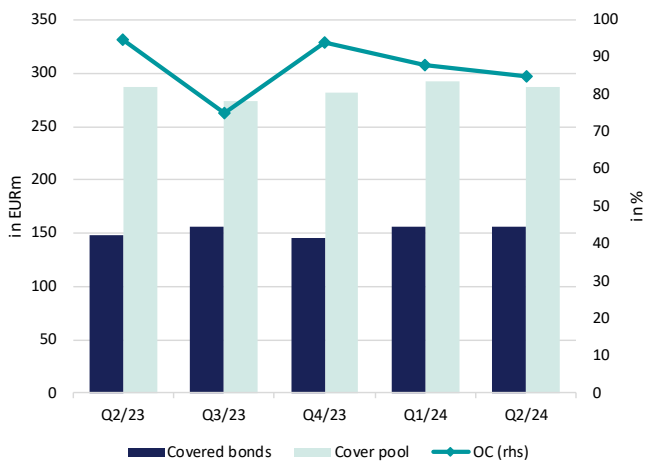
## Weser-Elbe Sparkasse

## Mortgage

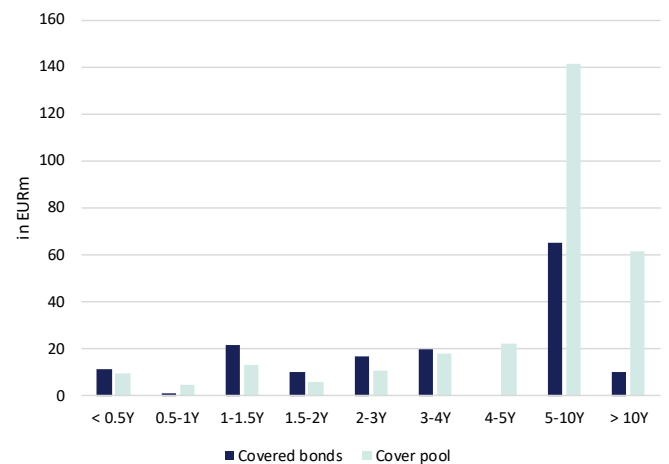
### Cover pool data

Cover pool (EURm)	287.7	Fixed interest (Cover pool)	99.8%
of which residential	89.1%	Fixed interest (Covered bonds)	100.0%
of which commercial	6.8%	Avg. LTV (Mortgage lending value)	56.4%
of which substitution assets	4.1%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	155.5	Share of largest exposure tranche	82.1% (< EUR 0.3m)
OC (EURm)	132.2	Avg. seasoning	6.9y
OC	85.0%	Loans in arrears (>90 days)	0.00%

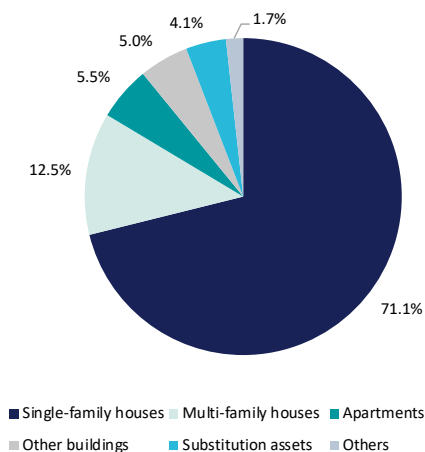
### Development of cover pool data



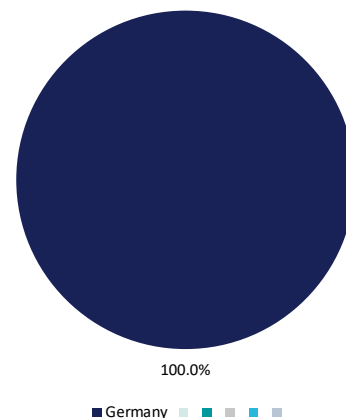
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



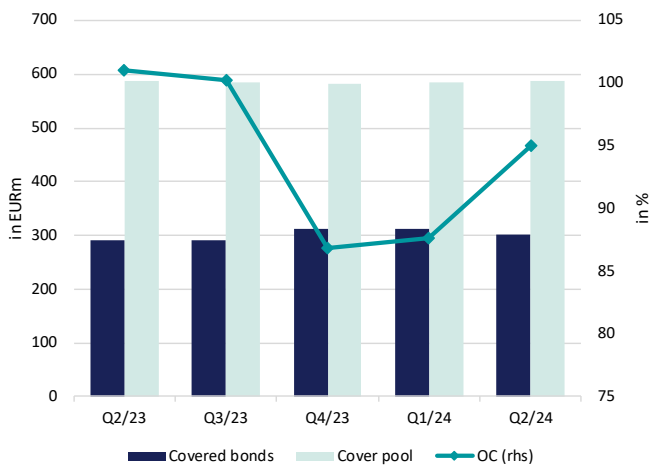
## Sparkasse Westmünsterland

## Mortgage

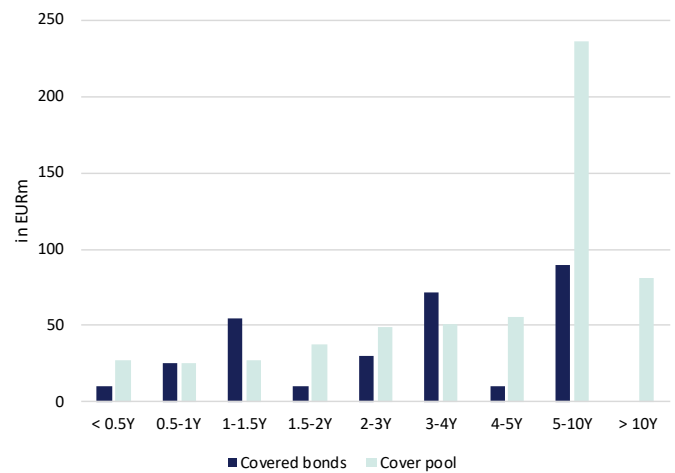
### Cover pool data

Cover pool (EURm)	588.9	Fixed interest (Cover pool)	98.2%
of which residential	95.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	0.0%	Avg. LTV (Mortgage lending value)	49.5%
of which substitution assets	4.1%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	302.0	Share of largest exposure tranche	99.5% (< EUR 0.3m)
OC (EURm)	286.9	Avg. seasoning	7.8y
OC	95.0%	Loans in arrears (>90 days)	0.00%

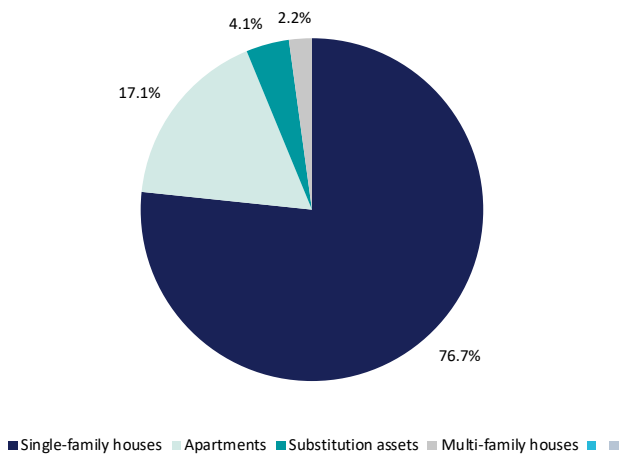
### Development of cover pool data



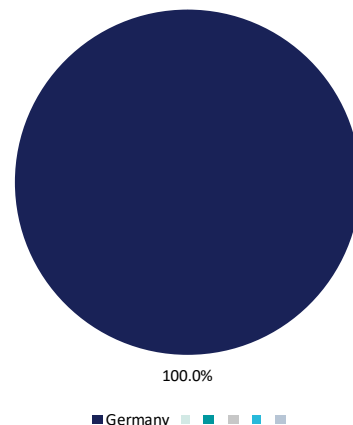
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



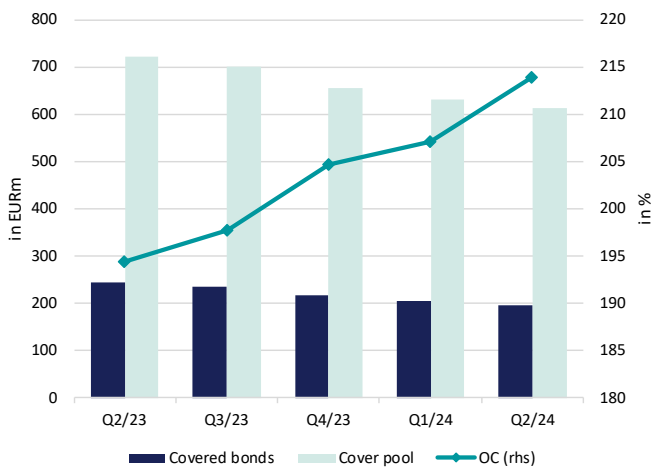
## Stadtsparkasse Wuppertal

## Mortgage

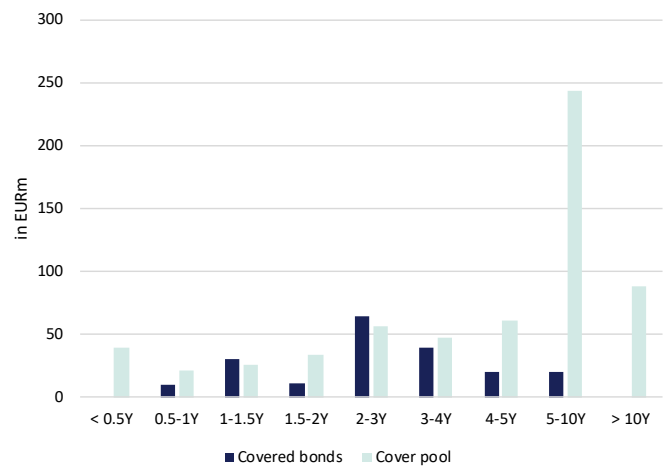
### Cover pool data

Cover pool (EURm)	615.1	Fixed interest (Cover pool)	97.2%
of which residential	82.9%	Fixed interest (Covered bonds)	100.0%
of which commercial	13.9%	Avg. LTV (Mortgage lending value)	56.8%
of which substitution assets	3.3%	Avg. LTV (Market value)	n/a
of which derivatives	0.0%	Largest FX position (NPV in EURm)	-
Covered bonds (EURm)	195.9	Share of largest exposure tranche	70.6% (< EUR 0.3m)
OC (EURm)	419.2	Avg. seasoning	7.1y
OC	214.0%	Loans in arrears (>90 days)	0.00%

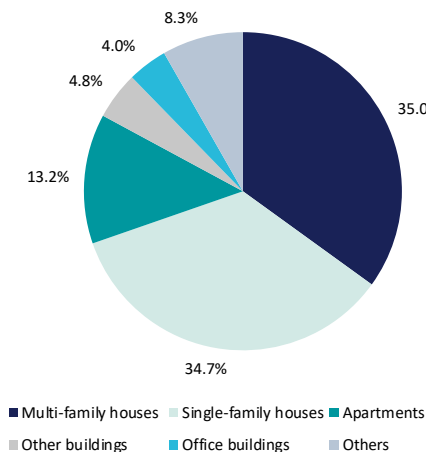
### Development of cover pool data



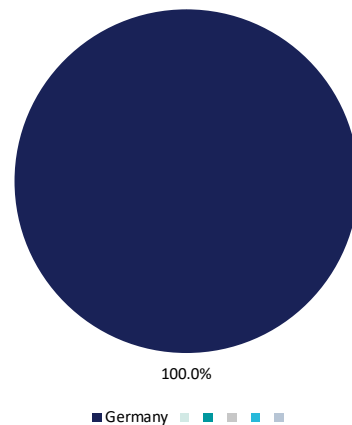
### Maturity structure



### Composition of cover pool



### Regional distribution of properties



## Appendix

### Contacts at NORD/LB

#### Floor Research



**Dr. Frederik Kunze**

Covered Bonds/Banks

+49 172 354 8977

[frederik.kunze@nordlb.de](mailto:frederik.kunze@nordlb.de)



**Lukas Kühne**

Covered Bonds/Banks

+49 176 152 90932

[lukas.kuehne@nordlb.de](mailto:lukas.kuehne@nordlb.de)



**Alexander Grenner**

Covered Bonds/Banks

+49 157 851 65070

[alexander.grenner@nordlb.de](mailto:alexander.grenner@nordlb.de)



**Dr. Norman Rudschuck, CIIA**

SSA/Public Issuers

+49 152 090 24094

[norman.rudschuck@nordlb.de](mailto:norman.rudschuck@nordlb.de)



**Christian Ilchmann**

SSA/Public Issuers

+49 157 851 64976

[christian.ilchmann@nordlb.de](mailto:christian.ilchmann@nordlb.de)



**Lukas-Finn Frese**

SSA/Public Issuers

+49 176 152 89759

[lukas-finn.frese@nordlb.de](mailto:lukas-finn.frese@nordlb.de)

#### Sales

Institutional Sales	+49 511 9818-9440
Sales Sparkassen & Regionalbanken	+49 511 9818-9400
Institutional Sales MM/FX	+49 511 9818-9460
Fixed Income Relationship Management Europe	+352 452211-515

#### Origination & Syndicate

Origination FI	+49 511 9818-6600
Origination Corporates	+49 511 361-2911

#### Treasury

Collat. Management/Repos	+49 511 9818-9200
Liquidity Management	+49 511 9818-9620 +49 511 9818-9650

#### Trading

Covereds/SSA	+49 511 9818-8040
Financials	+49 511 9818-9490
Governments	+49 511 9818-9660
Länder/Regionen	+49 511 9818-9660
Frequent Issuers	+49 511 9818-9640

#### Sales Wholesale Customers

Firmenkunden	+49 511 361-4003
Asset Finance	+49 511 361-8150

#### Relationship Management

Institutionelle Kunden	<a href="mailto:rm-vs@nordlb.de">rm-vs@nordlb.de</a>
Öffentliche Kunden	<a href="mailto:rm-oek@nordlb.de">rm-oek@nordlb.de</a>

**Disclaimer**

The present report (hereinafter referred to as “information”) was drawn up by **NORDEUTSCHE LANDESBANK GIROZENTRALE (NORD/LB)**. The supervisory authorities responsible for NORD/LB are the European Central Bank (ECB), Sonnemannstraße 20, D-60314 Frankfurt am Main, and the Federal Financial Supervisory Authority in Germany (Bundesanstalt für Finanzdienstleistungsaufsicht; BaFin), Graurheindorfer Str. 108, D-53117 Bonn and Marie-Curie-Str. 24-28, D-60439 Frankfurt am Main. The present report and the products and services described herein have not been reviewed or approved by the relevant supervisory authority.

The present information is addressed exclusively to Recipients in Austria, Belgium, Canada, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Indonesia, Ireland, Italy, Japan, Korea, Luxembourg, the Netherlands, New Zealand, Poland, Portugal, Singapore, Portugal, Spain, Sweden, Switzerland, the Republic of China (Taiwan), Thailand, the United Kingdom and Vietnam (hereinafter referred to as “Relevant Persons” or “Recipients”). The contents of the information are disclosed to the Recipients on a strictly confidential basis and, by accepting such information, the Recipients shall agree that they will not forward it to third parties, copy and/or reproduce this information without the prior written consent of NORD/LB. The present information is addressed solely to the Relevant Persons and any parties other than the Relevant Persons shall not rely on the information contained herein. In particular, neither this information nor any copy thereof shall be forwarded or transmitted to the United States of America or its territories or possessions, or distributed to any employees or affiliates of Recipients resident in these jurisdictions.

**The present information does not constitute financial analysis within the meaning of Art. 36 (1) of the Delegate Regulation (EU) 2017/565, but rather represents a marketing communication for your general information within the meaning of Art. 36 (2) of this Regulation. Against this background, NORD/LB expressly points out that this information has not been prepared in accordance with legal provisions promoting the independence of investment research and is not subject to any prohibition of trading following the dissemination of investment research.** Likewise, this information does not constitute an investment recommendation or investment strategy recommendation within the meaning of the Market Abuse Regulation (EU) No. 596/2014.

This report and the information contained herein have been compiled and are provided exclusively for information purposes. The present information is not intended as an investment incentive. It is provided for the Recipient’s personal information, subject to the express understanding, which shall be acknowledged by the Recipient, that it does not constitute any direct or indirect offer, recommendation, solicitation to purchase, hold or sell or to subscribe for or acquire any securities or other financial instruments nor any measure by which financial instruments might be offered or sold.

All actual details, information and statements contained herein were derived from sources considered reliable by NORD/LB. For the preparation of this information, NORD/LB uses issuer-specific financial data providers, own estimates, company information and public media. However, since these sources are not verified independently, NORD/LB cannot give any assurance as to or assume responsibility for the accuracy and completeness of the information contained herein. The opinions and prognoses given herein on the basis of these sources constitute a non-binding evaluation of the employees of the Floor Research division of NORD/ LB. Any changes in the underlying premises may have a material impact on the developments described herein. Neither NORD/LB nor its governing bodies or employees can give any assurances as to or assume any responsibility or liability for the accuracy, appropriateness and completeness of this information or for any loss of return, any indirect, consequential or other damage which may be suffered by persons relying on the information or any statements or opinions set forth in the present Report (irrespective of whether such losses are incurred due to any negligence on the part of these persons or otherwise).

Past performance is not a reliable indicator of future performance. Exchange rates, price fluctuations of the financial instruments and similar factors may have a negative impact on the value and price of and return on the financial instruments referred to herein or any instruments linked thereto. Fees and commissions apply in relation to securities (purchase, sell, custody), which reduce the return on investment. An evaluation made on the basis of the historical performance of any security does not necessarily provide an indication of its future performance.

The present information neither constitutes any investment, legal, accounting or tax advice nor any assurance that an investment or strategy is suitable or appropriate in the light of the Recipient’s individual circumstances, and nothing in this information constitutes a personal recommendation to the Recipient thereof. The securities or other financial instruments referred to herein may not be suitable for the Recipient’s personal investment strategies and objectives, financial situation or individual needs.

Moreover, the present report in whole or in part is not a sales or other prospectus. Accordingly, the information contained herein merely constitutes an overview and does not form the basis for any potential decision to buy or sell on the part of an investor. A full description of the details relating to the financial instruments or transactions which may relate to the subject matter of this report is given in the relevant (financing) documentation. To the extent that the financial instruments described herein are NORD/LB’s own issues and subject to the requirement to publish a prospectus, the conditions of issue applicable to any individual financial instrument and the relevant prospectus published with respect thereto as well NORD/LB’s relevant registration form, all of which are available for download at [www.nordlb.de](http://www.nordlb.de) and may be obtained free of charge from NORD/LB, Georgsplatz 1, 30159 Hanover, shall be solely binding. Furthermore, any potential investment decision should be made exclusively on the basis of such (financing) documentation. The present information cannot replace personal advice. Before making an investment decision, each Recipient should consult an independent investment adviser for individual investment advice with respect to the appropriateness of an investment in financial instruments or investment strategies subject to this information as well as for other and more recent information on certain investment opportunities.

Each of the financial instruments referred to herein may involve substantial risks, including capital, interest, index, currency and credit risks in addition to political, fair value, commodity and market risks. The financial instruments could experience a sudden and substantial deterioration in value, including a total loss of the capital invested. Each transaction should only be entered into on the basis of the relevant investor’s assessment of his or her individual financial situation as well as of the suitability and risks of the investment.

NORD/LB and its affiliated companies may participate in transactions involving the financial instruments described in the present information or their underlying basis values for their own account or for the account of third parties, may issue other financial instruments with the same or similar features as those of the financial instruments presented in this information and may conduct hedging transactions to hedge positions. These measures may affect the price of the financial instruments described in the present information.

If the financial instruments presented in this information are derivatives, they may, depending on their structure, have an initial negative market value from the customer's perspective at the time the transaction is concluded. NORD/LB further reserves the right to transfer its economic risk from a derivative concluded with it to a third party on the market by means of a mirror-image counter transaction.

More detailed information on any commission payments which may be included in the selling price can be found in the "Customer Information on Securities Business" brochure, which is available to download at [www.nordlb.de](http://www.nordlb.de).

The information contained in the present report replaces all previous versions of corresponding information and refers exclusively to the time of preparation of the information. Future versions of this information will replace this version. NORD/LB is under no obligation to update and/or regularly review the data contained in such information. No guarantee can therefore be given that the information is up-to-date and continues to be correct.

By making use of this information, the Recipient shall accept the terms and conditions outlined above.

NORD/LB is a member of the protection scheme of Deutsche Sparkassen-Finanzgruppe. Further information for the Recipient is indicated in clause 28 of the General Terms and Conditions of NORD/LB or at [www.dsgv.de/sicherungssystem](http://www.dsgv.de/sicherungssystem).

**Additional information for Recipients in Australia:**

NORD/LB IS NOT A BANK OR DEPOSIT TAKING INSTITUTION AUTHORISED UNDER THE 1959 BANKING ACT OF AUSTRALIA. IT IS NOT SUPERVISED BY THE AUSTRALIAN PRUDENTIAL REGULATION AUTHORITY. NORD/LB does not provide personal advice with this information and does not take into account the objectives, financial situation or needs of the Recipient (other than for the purpose of combating money laundering).

**Additional information for Recipients in Austria:**

None of the information contained herein constitutes a solicitation or offer by NORD/LB or its affiliates to buy or sell any securities, futures, options or other financial instruments or to participate in any other strategy. Only the published prospectus pursuant to the Austrian Capital Market Act should be the basis for any investment decision of the Recipient. For regulatory reasons, products mentioned herein may not be on offer in Austria and therefore not available to investors in Austria. Therefore, NORD/LB may not be able to sell or issue these products, nor shall it accept any request to sell or issue these products to investors located in Austria or to intermediaries acting on behalf of any such investors.

**Additional information for Recipients in Belgium:**

Evaluations of individual financial instruments on the basis of past performance are not necessarily indicative of future results. It should be noted that the reported figures relate to past years.

**Additional information for Recipients in Canada:**

This report has been prepared solely for information purposes in connection with the products it describes and should not, under any circumstances, be construed as a public offer or any other offer (direct or indirect) to buy or sell securities in any province or territory of Canada. No financial market authority or similar regulatory body in Canada has made any assessment of these securities or reviewed this information and any statement to the contrary constitutes an offence. Potential selling restrictions may be included in the prospectus or other documentation relating to the relevant product.

**Additional information for Recipients in Cyprus:**

This information constitutes an analysis within the meaning of the section on definitions of the Cyprus Directive D1444-2007-01 (No. 426/07). Furthermore, this information is provided for information and promotional purposes only and does not constitute an individual invitation or offer to sell, buy or subscribe to any investment product.

**Additional information for Recipients in the Czech Republic:**

There is no guarantee that the invested amount will be recouped. Past returns are no guarantee of future results. The value of the investments may rise or fall. The information contained herein is provided on a non-binding basis only and the author does not guarantee the accuracy of the content.

**Additional information for Recipients in Denmark:**

This Information does not constitute a prospectus under Danish securities law and consequently is not required to be, nor has been filed with or approved by the Danish Financial Supervisory Authority, as this Information either (i) has not been prepared in the context of a public offering of securities in Denmark or the admission of securities to trading on a regulated market within the meaning of the Danish Securities Trading Act or any executive orders issued pursuant thereto, or (ii) has been prepared in the context of a public offering of securities in Denmark or the admission of securities to trading on a regulated market in reliance on one or more of the exemptions from the requirement to prepare and publish a prospectus in the Danish Securities Trading Act or any executive orders issued pursuant thereto.

**Additional information for Recipients in Estonia:**

It is advisable to closely examine all the terms and conditions of the services provided by NORD/LB. If necessary, Recipients of this information should consult an expert.

**Additional information for Recipients in Finland:**

The financial products described herein may not be offered or sold, directly or indirectly, to any resident of the Republic of Finland or in the Republic of Finland, except pursuant to applicable Finnish laws and regulations. Specifically, in the case of shares, such shares may not be offered or sold, directly or indirectly, to the public in the Republic of Finland as defined in the Finnish Securities Market Act (746/2012, as amended). The value of investments may go up or down. There is no guarantee of recouping the amount invested. Past performance is no guarantee of future results.

**Additional information for Recipients in France:**

NORD/LB is partially regulated by the “Autorité des Marchés Financiers” for the conduct of French business. Details concerning the extent of our regulation by the respective authorities are available from us on request. The present information does not constitute an analysis within the meaning of Article 24 (1) Directive 2006/73/EC, Article L.544-1 and R.621-30-1 of the French Monetary and Financial Code, but does represent a marketing communication and does qualify as a recommendation pursuant to Directive 2003/6/EC and Directive 2003/125/EC.

**Additional information for Recipients in Greece:**

The information contained herein gives the view of the author at the time of publication and may not be used by its Recipient without first having confirmed that it remains accurate and up to date at the time of its use. Past performance, simulations or forecasts are therefore not a reliable indicator of future results. Investment funds have no guaranteed performance and past returns do not guarantee future performance.

**Additional information for Recipients in Indonesia:**

This report contains generic information and has not been tailored to the circumstances of any individual or specific Recipient. This information is part of NORD/LB's marketing material.

**Additional information for Recipients in the Republic of Ireland:**

This information has not been prepared in accordance with Directive (EU) 2017/1129 (as amended) on prospectuses (the “Prospectus Directive”) or any measures made under the Prospectus Directive or the laws of any Member State or EEA treaty adherent state that implement the Prospectus Directive or such measures and therefore may not contain all the information required for a document prepared in accordance with the Prospectus Directive or the laws.

**Additional information for Recipients in Japan:**

This information is provided to you for information purposes only and does not constitute an offer or solicitation of an offer to enter into securities transactions or commodity futures transactions. Although the actual data and information contained herein has been obtained from sources which we believe to be reliable and trustworthy, we are unable to vouch for the accuracy and completeness of this actual data and information.

**Additional information for Recipients in South Korea:**

This information has been provided to you free of charge for information purposes only. The information contained herein is factual and does not reflect any opinion or judgement of NORD/LB. The information contained herein should not be construed as an offer, marketing, solicitation to submit an offer or investment advice with respect to the financial investment products described herein.

**Additional information for Recipients in Luxembourg:**

Under no circumstances shall the present information constitute an offer to purchase or issue or the solicitation to submit an offer to buy or subscribe for financial instruments and financial services in Luxembourg.

**Additional information for Recipients in New Zealand:**

NORD/LB is not a bank registered in New Zealand. This information is for general information only. It does not take into account the Recipient's financial situation or objectives and is not a personalised financial advisory service under the 2008 Financial Advisers Act.

**Additional information for Recipients in the Netherlands:**

The value of your investment may fluctuate. Past performance is no guarantee for the future.

**Additional information for Recipients in Poland:**

This information does not constitute a recommendation within the meaning of the Regulation of the Polish Minister of Finance Regarding Information Constituting Recommendations Concerning Financial Instruments or Issuers thereof dated 19 October 2005.

**Additional information for Recipients in Portugal:**

This information is intended only for institutional clients and may not be (i) used by, (ii) copied by any means or (iii) distributed to any other kind of investor, in particular not to retail clients. The present information does not constitute or form part of an offer to buy or sell any of the securities covered by the report, nor should it be understood as a request to buy or sell securities where that practice may be deemed unlawful. The information contained herein is based on information obtained from sources which we believe to be reliable, but is not guaranteed as to accuracy or completeness. Unless otherwise stated, all views contained herein relate solely to our research and analysis and are subject to change without notice.

**Additional information for Recipients in Sweden:**

This information does not constitute (or form part of) a prospectus, offering memorandum, any other offer or solicitation to acquire, sell, subscribe for or otherwise trade in shares, subscription rights or other securities, nor shall it or any part of it form the basis of or be relied on in connection with any contract or commitment whatsoever. The present information has not been approved by any regulatory authority. Any offer of securities will only be made pursuant to an applicable prospectus exemption under the EC Prospectus Directive (Directive (EU) 2017/1129), and no offer of securities is being directed to any person or investor in any jurisdiction where such action is wholly or partially subject to legal restrictions or where such action would require additional prospectuses, other offer documentation, registrations or other actions.

**Additional information for Recipients in Switzerland:**

This information has not been approved by the Federal Banking Commission (merged into the Swiss Financial Market Supervisory Authority (FINMA) on 1 January 2009). NORD/LB will comply with the Directives of the Swiss Bankers Association on the Independence of Financial Research (as amended). The present information does not constitute an issuing prospectus pursuant to article 652a or article 1156 of the Swiss Code of Obligations. The information is published solely for the purpose of information on the products mentioned herein. The products do not qualify as units of a collective investment scheme pursuant to the Federal Act on Collective Investment Schemes (CISA) and are therefore not subject to supervision by FINMA.



**Additional information for Recipients in the Republic of China (Taiwan):**

Gehe einThis information is provided for general information only and does not take into account the individual interests or requirements, financial status and investment objectives of any specific investor. Nothing herein should be construed as a recommendation or advice for you to subscribe to a particular investment product. You should not rely solely on the information provided herein when making your investment decisions. When considering any investment, you should endeavour to make your own independent assessment and determination on whether the investment is suitable for your needs and seek your own professional financial and legal advice. NORD/LB has taken all reasonable care in producing this report and trusts that the information is reliable and suitable for your situation at the date of publication or delivery. However, no guarantee of accuracy or completeness is given. To the extent that NORD/LB has exercised the due care of a good administrator, we accept no responsibility for any errors, omissions, or misstatements in the information given. NORD/LB does not guarantee any investment results and does not guarantee that the strategies employed will improve investment performance or achieve your investment objectives.

**Information for Recipients in the United Kingdom:**

NORD/LB is subject to partial regulation by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA). Details of the scope of regulation by the FCA and the PRA are available from NORD/LB on request. The present information is "financial promotion". Recipients in the United Kingdom should contact the London office of NORD/LB, Investment Banking Department, telephone: 0044 / 2079725400, in the event of any queries. An investment in financial instruments referred to herein may expose the investor to a significant risk of losing all the capital invested.

**Time of going to press:** 06 August 2024 (14:00)