



## Transparency requirements §28 PfandBG Q4/2022

Markets Strategy & Floor Research

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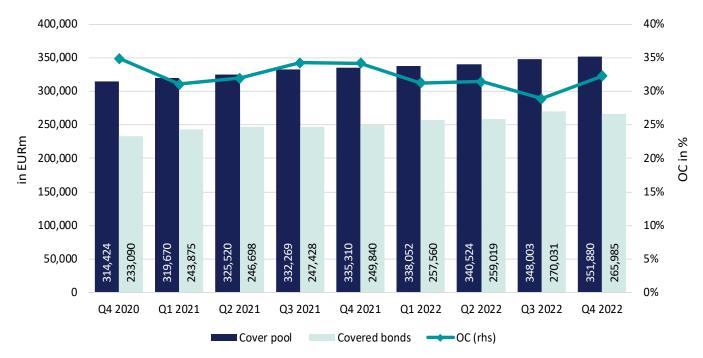
## Agenda

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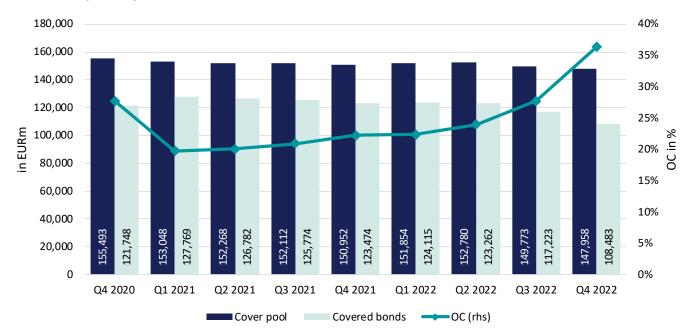
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## **Market Overview**

#### Market development: mortgage covered bonds



#### Market development: public sector covered bonds



Source: vdp, Deutsche Bank, NORD/LB Markets Strategy & Floor Research



#### Market development: ship covered bonds

#### Market overview: mortgage covered bonds

	Cover pool	Pfandbrief volume	oc		C	Cover type (in %)		DE share (in %)
Issuer	in EURm	in EURm	in EURm	in %	Residential	Commercial	Others	Primary assets
Aareal Bank	15,173	13,337	1,836	13.8	6.0%	86.6%	7.3%	11.4%
ALTE LEIPZIGER Bauspar	65	15	50	335.0	96.9%	0.0%	3.1%	100.0%
Bausparkasse Mainz	182	149	33	22.4	95.6%	0.0%	4.4%	100.0%
Bausparkasse Schwäbisch Hall	3,515	2,511	1,004	40.0	96.4%	0.5%	3.2%	100.0%
BayernLB	12,529	8,702	3,827	44.0	12.5%	74.0%	13.6%	57.3%
BBBank	28	5	23	467.4	93.0%	0.0%	7.0%	100.0%
Berlin Hyp	17,188	16,046	1,142	7.1	30.7%	62.7%	6.7%	66.1%
Commerzbank	40,108	27,633	12,475	45.1	94.7%	2.2%	3.1%	100.0%
DekaBank	1,194	691	503	72.8	0.0%	91.7%	8.3%	45.2%
apoBank	9,243	4,949	4,294	86.8	75.6%	17.6%	6.8%	100.0%
Deutsche Bank	16,193	13,038	3,155	24.2	89.6%	6.3%	4.1%	100.0%
DKB	5,864	3,868	1,997	51.6	92.7%	1.9%	5.4%	100.0%
DZ HYP	39,429	33,425	6,004	18.0	56.0%	41.6%	2.4%	96.6%
Hamburger Sparkasse	7,961	6,412	1,549	24.2	65.1%	27.9%	6.9%	100.0%
Helaba	17,544	11,654	5,891	50.5	28.6%	64.7%	6.7%	49.2%
Hamburg Commercial Bank	4,038	3,267	771	23.6	13.9%	67.4%	18.6%	92.3%
ING-DiBa	11,785	7,355	4,430	60.2	95.6%	0.0%	4.4%	100.0%
Kreissparkasse Köln	6,466	1,143	5,323	465.9	83.7%	11.7%	4.4%	100.0%
Landesbank Berlin	5,862	4,098	1,764	43.1	66.0%	29.0%	5.0%	100.0%
LBBW	17,335	12,558	4,777	38.0	41.4%	53.9%	4.7%	81.2%
LIGA Bank	279	122	157	129.1	96.4%	0.0%	3.6%	100.0%
M.M.Warburg & CO Hypothekenbank	1,326	1,157	170	14.7	21.4%	73.7%	4.9%	94.6%
Münchener Hypothekenbank	34,377	31,694	2,683	8.5	80.8%	17.5%	1.7%	79.0%
Natixis Pfandbriefbank	1,600	1,306	294	22.5	3.5%	81.2%	15.3%	40.8%
NORD/LB	11,801	9,100	2,701	29.7	38.5%	55.3%	6.2%	40.8 <i>%</i> 69.0%
Oldenburgische Landesbank	1,190	1,061	129	12.2	89.6%	2.0%	8.4%	100.0%
Deutsche Pfandbriefbank	19,773	15,981	3,792	23.7	15.4%	77.9%	6.7%	41.5%
PSD Bank Nürnberg	1,096	651	445	68.4	97.7%	0.0%	2.3%	100.0%
PSD Bank Rhein-Ruhr	709	439	270	61.4	97.2%	0.0%	2.3%	100.0%
SaarLB	1,070	631	438	69.4	1.8%	94.4%	3.8%	65.3%
Santander Consumer Bank	1,191	1,025	166	16.2	95.7%	0.0%	4.3%	100.0%
Sparda-Bank Südwest	83	15	68	456.0	88.0%	0.0%		100.0%
Sparkasse Hannover	2,617	1,398	1,220	87.3	88.0% 77.3%	18.6%	12.0%	100.0%
Stadtsparkasse Düsseldorf	1,900	1,171	729	62.2		23.8%	4.1%	
Sparkasse KölnBonn	6,812	1,438	5,374	373.6	71.0% 78.8%	23.8%	5.2%	100.0%
UniCredit Bank	31,112	25,117	5,995	23.9	78.8% 69.6%	20.1%	1.1%	100.0% 100.0%
Wüstenrot Bausparkasse	3,241	2,827	415	14.7	69.6% 89.2%	28.6%	1.8% 9.6%	100.0%
•		-			89.270	1.270	9.6%	100.0%

Source: vdp, Deutsche Bank, NORD/LB Markets Strategy & Floor Research

#### Market overview: public sector covered bonds

	Cover pool	Pfandbrief volume	oc			С	over type (in %)			DE share (in %)
lssuer	in EURm	in EURm	in EURm	in %	Central government	Regional authorities	Local authorities	Other debtors	Others	Primary assets
Aareal Bank	1,349	1,204	145	12.0	18.5%	60.9%	19.0%	1.6%	0.0%	76.6%
BayernLB	24,279	16,130	8,148	50.5	7.2%	39.6%	43.2%	8.0%	2.0%	93.8%
Berlin Hyp	232	200	32	16.2	21.5%	74.2%	0.0%	4.3%	0.0%	78.5%
Commerzbank	13,958	8,689	5,269	60.6	20.5%	28.2%	48.2%	3.1%	0.0%	66.2%
DekaBank	4,572	3,807	765	20.1	9.5%	11.5%	58.7%	19.7%	0.6%	87.8%
Deutsche Bank	143	90	53	58.7	62.0%	25.9%	0.0%	0.0%	12.1%	29.5%
DKB	7,050	4,153	2,898	69.8	0.9%	10.4%	65.6%	23.1%	0.0%	99.3%
Deutsche Pfandbriefbank	10,913	8,771	2,142	24.4	46.0%	32.6%	10.5%	11.0%	0.0%	30.4%
DZ HYP	12,523	9,612	2,911	30.3	5.5%	20.2%	69.5%	4.8%	0.0%	87.1%
Hamburg Commercial Bank	791	657	133	20.3	28.9%	59.7%	11.4%	0.0%	0.0%	64.8%
Kreissparkasse Köln	293	178	114	64.1	17.4%	0.0%	59.0%	23.6%	0.0%	89.4%
LBBW	12,465	10,142	2,323	22.9	23.0%	19.0%	45.3%	12.7%	0.0%	93.2%
Landesbank Berlin	787	260	527	202.8	0.0%	3.0%	0.6%	96.5%	0.0%	100.0%
Helaba	31,781	24,879	6,902	27.7	4.2%	33.9%	46.7%	15.2%	0.0%	93.6%
LIGA Bank	144	90	54	60.3	0.0%	0.0%	93.1%	6.9%	0.0%	100.0%
Münchener Hypothekenbank	1,457	1,308	149	11.4	8.2%	82.4%	3.6%	5.8%	0.0%	89.4%
NORD/LB	13,627	11,696	1,931	16.5	6.6%	24.4%	44.7%	22.0%	2.4%	87.8%
SaarLB	4,100	3,105	995	32.0	2.2%	6.6%	81.9%	9.2%	0.0%	60.7%
Sparkasse Hannover	1,306	586	720	122.8	0.0%	5.0%	85.0%	10.0%	0.0%	100.0%
Sparkasse KölnBonn	126	0	126	0.0	0.2%	43.5%	29.0%	27.3%	0.0%	100.0%
Stadtsparkasse Düsseldorf	93	30	63	210.5	0.0%	0.0%	88.1%	1.2%	10.7%	100.0%
UniCredit Bank	5,970	2,894	3,076	106.3	20.8%	26.1%	52.5%	0.6%	0.0%	91.8%

Source: vdp, Deutsche Bank, NORD/LB Markets Strategy & Floor Research

#### Market overview: ship covered bonds

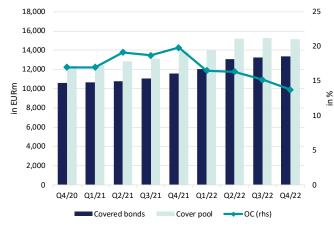
<b>I</b>	Cover pool	Pfandbrief volume	OC	
Issuer	in EURm	in EURm	in EURm	in %
Commerzbank AG	85	59	26	44.2
Hamburg Commercial Bank AG	2,507	1,873	634	33.9
Courses under NORD/ID Markata Strategy & Floor	Decearch			

## Aareal Bank

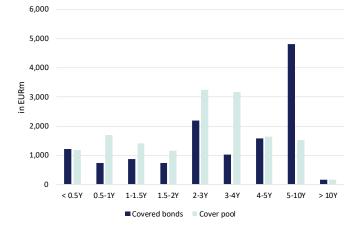
#### Cover pool data

Cover pool (EURm)	15,172.7	Number of loans	3,055
of which residential	6.0%	Number of borrowers	3,202
of which commercial	86.6%	Number of properties	4,069
of which substitution assets	7.3%	Avg. exposure to borrowers (EUR)	4,390,381
of which derivatives	0.0%	Share of 10 largest borrowers	9.6%
Covered bonds (EURm)	13,336.9	Share of owner-occupied dwellings	0.5%
OC (EURm)	1,835.8	Share of multi-familiy houses	5.4%
OC	13.8%	EUR share (Cover pool)	77.7%
Fixed interest (Cover pool)	50.5%	EUR share (Covered bonds)	88.6%
Fixed interest (Covered bonds)	74.1%	Largest FX position (NPV in EURm)	USD (1,175.5)
WAL (Cover pool)	3.0y	Share of largest exposure tranche	96.3% (> EUR 10m)
WAL (Covered Bonds)	3.9y	Avg. seasoning	4.6y
Avg. LTV (Original value)	55.5%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	32.0%		

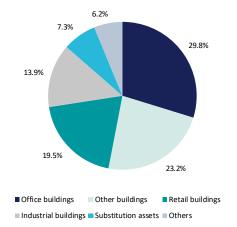
#### Development of cover pool data



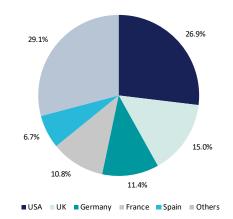
#### Maturity structure



#### **Composition of cover pool**



#### **Regional distribution of properties**



## Mortgage

NORD/LB

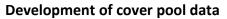
## **Aareal Bank**

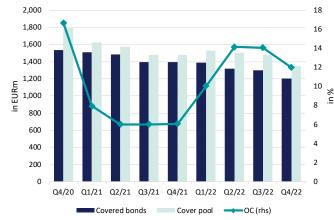
#### Cover pool data

WAL (Covered Bonds)

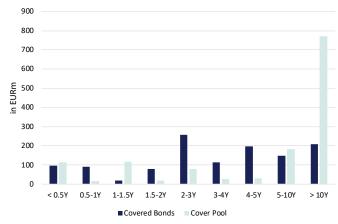
Cover pool (EURm) of which substitution assets of which derivatives Covered bonds (EURm) OC (EURm) OC Fixed interest (Cover pool) Fixed interest (Covered bonds) WAL (Cover pool)

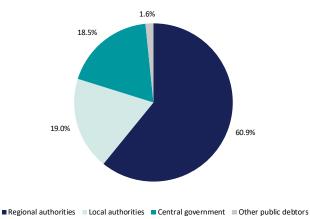
#### 1,349.0 Number of loans 162 0.0% Number of borrowers 90 0.0% Share of 10 largest borrowers 79.6% Avg. exposure to borrowers (EUR) 14,988,889 1,204.4 144.6 EUR share (Cover pool) 100.0% 12.0% EUR share (Covered bonds) 100.0% 93.1% Largest FX position (NPV in EURm) 97.9% Share of largest exposure tranche 56.4% (> EUR 100m) 8.6y Loans in arrears (>90 days) 0.00% 4.6y





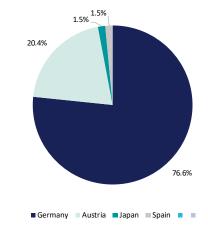
#### **Maturity structure**





#### **Composition of primary assets**

#### **Regional distribution of claims**



Source: vdp, NORD/LB Markets Strategy & Floor Research

**Public sector** 

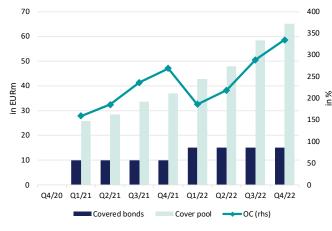
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## **ALTE LEIPZIGER Bauspar**

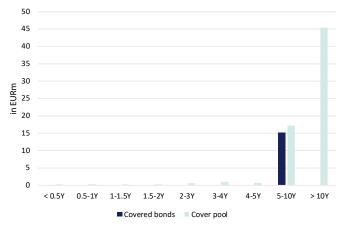
#### Cover pool data . .....

Cover pool (EURm)	65.3	Number of loans	n/a
of which residential	96.9%	Number of borrowers	n/a
of which commercial	0.0%	Number of properties	n/a
of which substitution assets	3.1%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	15.0	Share of owner-occupied dwellings	n/a
OC (EURm)	50.3	Share of multi-familiy houses	n/a
OC	335.0%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	93.7% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	2.2y
Avg. LTV (Original value)	56.7%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

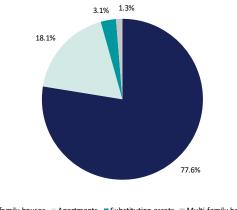
#### Development of cover pool data



#### **Maturity structure**

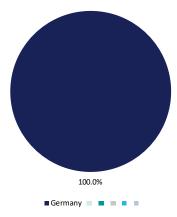


## **Composition of cover pool**



Single-family houses Apartments Substitution assets Multi-family houses

#### **Regional distribution of properties**



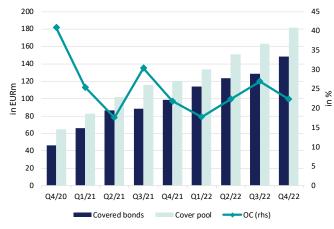
## Mortgage

## **Bausparkasse Mainz**

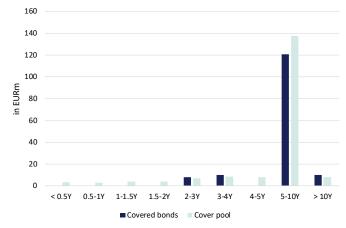
#### Cover pool data

Cover pool (EURm)	182.0	Number of loans	n/a
of which residential	95.6%	Number of borrowers	n/a
of which commercial	0.0%	Number of properties	n/a
of which substitution assets	4.4%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	148.7	Share of owner-occupied dwellings	n/a
OC (EURm)	33.3	Share of multi-familiy houses	n/a
OC	22.4%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	98.5% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	2.3y
Avg. LTV (Original value)	55.2%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

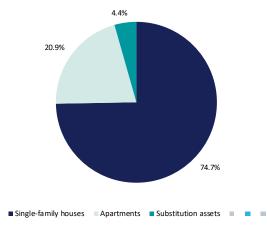
#### Development of cover pool data



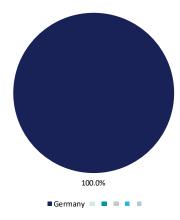
#### **Maturity structure**



#### **Composition of cover pool**



## **Regional distribution of properties**



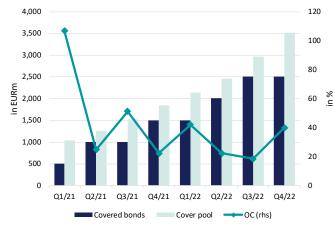
## Mortgage

## Bausparkasse Schwäbisch Hall

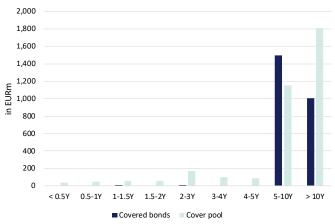
#### Cover pool data

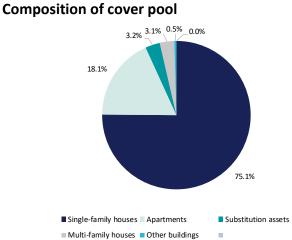
Cover pool (EURm)	3,514.7	Number of loans	24,335
of which residential	96.4%	Number of borrowers	37,891
of which commercial	0.5%	Number of properties	22,708
of which substitution assets	3.2%	Avg. exposure to borrowers (EUR)	89,804
of which derivatives	0.0%	Share of 10 largest borrowers	0.3%
Covered bonds (EURm)	2,511.0	Share of owner-occupied dwellings	85.2%
OC (EURm)	1,003.7	Share of multi-familiy houses	3.1%
OC	40.0%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	10.6y	Share of largest exposure tranche	86.7% (< EUR 0.3m)
WAL (Covered Bonds)	9.0y	Avg. seasoning	2.2y
Avg. LTV (Original value)	49.7%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data

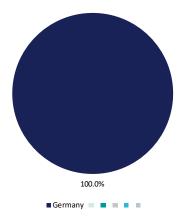


#### **Maturity structure**





#### **Regional distribution of properties**



## Mortgage

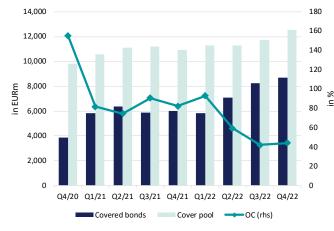
NORD/LB

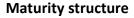
## BayernLB

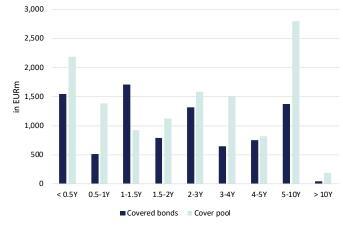
#### Cover pool data

Cover pool (EURm)	12,529.0	Number of loans	629
of which residential	12.5%	Number of borrowers	479
of which commercial	74.0%	Number of properties	1,170
of which substitution assets	13.6%	Avg. exposure to borrowers (EUR)	22,603,437
of which derivatives	0.0%	Share of 10 largest borrowers	11.4%
Covered bonds (EURm)	8,701.6	Share of owner-occupied dwellings	0.3%
OC (EURm)	3,827.4	Share of multi-familiy houses	12.2%
OC	44.0%	EUR share (Cover pool)	91.5%
Fixed interest (Cover pool)	70.2%	EUR share (Covered bonds)	98.4%
Fixed interest (Covered bonds)	49.5%	Largest FX position (NPV in EURm)	USD (735.7)
WAL (Cover pool)	3.1y	Share of largest exposure tranche	87.6% (> EUR 10m)
WAL (Covered Bonds)	2.7y	Avg. seasoning	4.5y
Avg. LTV (Original value)	58.0%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

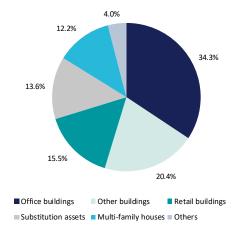
#### Development of cover pool data



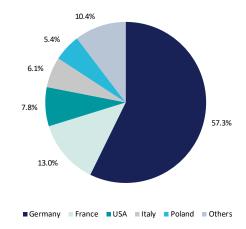




#### Composition of cover pool



#### **Regional distribution of properties**



## Mortgage

NORD/	LB
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## BayernLB

#### Cover pool data

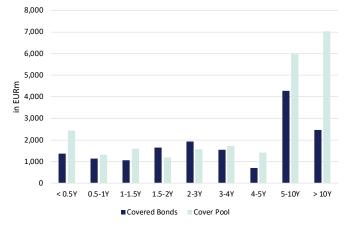
Cover pool (EURm) of which substitution assets of which derivatives Covered bonds (EURm) OC (EURm) OC Fixed interest (Cover pool) Fixed interest (Covered bonds) WAL (Covered Bonds)

24,278.9	Number of loans	78,405
2.0%	Number of borrowers	50,606
0.0%	Share of 10 largest borrowers	20.3%
16,130.4	Avg. exposure to borrowers (EUR)	470,406
8,148.4	EUR share (Cover pool)	96.7%
50.5%	EUR share (Covered bonds)	97.1%
93.1%	Largest FX position (NPV in EURm)	USD (96.3)
92.4%	Share of largest exposure tranche	56.0% (> EUR 100m)
8.5y	Loans in arrears (>90 days)	0.02%
5.5y		

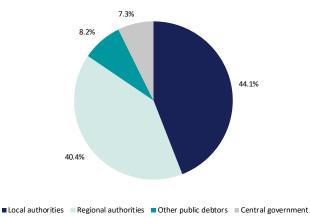
#### Development of cover pool data



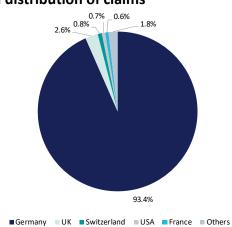
#### Maturity structure



#### **Composition of primary assets**



#### **Regional distribution of claims**



Source: vdp, NORD/LB Markets Strategy & Floor Research

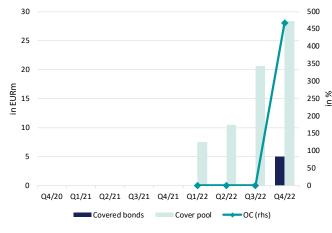
## **Public sector**

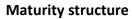
## BBBank

## Cover pool data

Deckungsmasse (EOKIII)	
davon wohnwirtschaftlich	
davon gewerblich	
davon Ersatzdeckung	
davon Derivate	
Pfandbriefvolumen (EURm)	
Überdeckung (EURm)	
Überdeckungsquote	
Anteil festverzinsliche Deckungsmasse	
Anteil festverzinsliche Pfandbriefe	
WAL (Deckungsmasse)	
WAL (Pfandbriefe)	
Ø LTV (Ursprungswert)	
Ø LTV (Marktwert)	

#### Development of cover pool data





Rückständige Kredite (>90 Tage)

Ø Alter der Forderungen (Seasoning)

Ø Darlehensbetrag pro Kreditnehmer (EUR)

28.4 Anzahl der Kredite

0.0% Anzahl der Objekte

7.0%

7.0y

50.5%

n/a

93.0% Anzahl der Kreditnehmer

23.4 Anteil Mehrfamilienhäuser

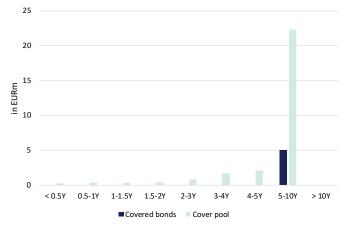
467.4% EUR-Anteil (Deckungsmasse)

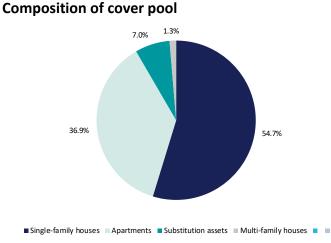
100.0% Größte FX-Position (NPV in EURm)7.2y Anteil der größten Forderungsklasse

100.0% EUR-Anteil (Pfandbriefe)

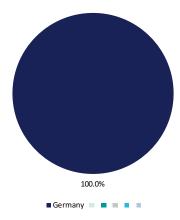
0.0% Anteil der 10 größten Kreditnehmer

5.0 Anteil selbstgenutztes Wohneigentum





#### **Regional distribution of properties**



## Mortgage

218

206

208

8.1%

1.3%

1.8y

0.00%

71.0%

100.0%

100.0%

100.0% (< EUR 0.3m)

128,010

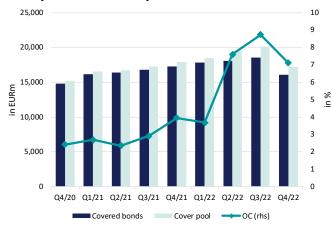
NORD/LB

## **Berlin Hyp**

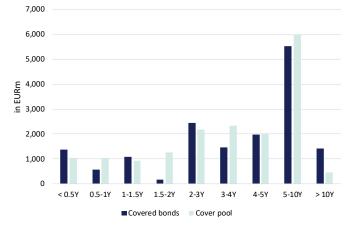
#### Cover pool data

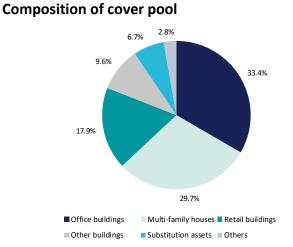
Cover pool (EURm)	17,187.6	Number of loans	1,446
of which residential	30.7%	Number of borrowers	1,322
of which commercial	62.7%	Number of properties	4,813
of which substitution assets	6.7%	Avg. exposure to borrowers (EUR)	12,132,797
of which derivatives	0.0%	Share of 10 largest borrowers	17.6%
Covered bonds (EURm)	16,045.7	Share of owner-occupied dwellings	0.0%
OC (EURm)	1,141.9	Share of multi-familiy houses	29.7%
OC	7.1%	EUR share (Cover pool)	99.6%
Fixed interest (Cover pool)	74.9%	EUR share (Covered bonds)	98.7%
Fixed interest (Covered bonds)	99.6%	Largest FX position (NPV in EURm)	CHF (-211.7)
WAL (Cover pool)	4.4y	Share of largest exposure tranche	85.4% (> EUR 10m)
WAL (Covered Bonds)	5.5y	Avg. seasoning	4.3y
Avg. LTV (Original value)	57.0%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data

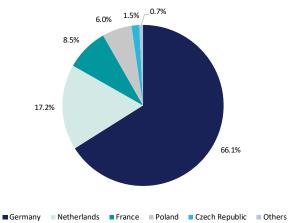


#### **Maturity structure**





#### **Regional distribution of properties**



## Mortgage

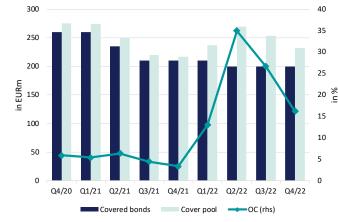
NORD/LB

## **Berlin Hyp**

#### Cover pool data

Cover pool (EURm) of which substitution assets of which derivatives Covered bonds (EURm) OC (EURm) OC Fixed interest (Cover pool) Fixed interest (Covered bonds) WAL (Cover pool) WAL (Covered Bonds)

#### Development of cover pool data



#### Maturity structure

232.4

0.0%

0.0%

200.0

16.2%

100.0%

100.0%

10.9y

5.6y

32.4

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

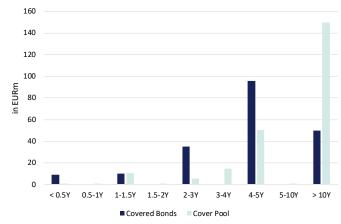
Loans in arrears (>90 days)

Share of 10 largest borrowers

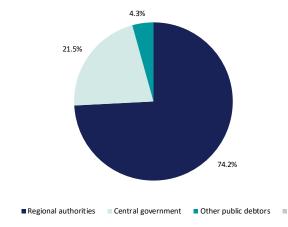
Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

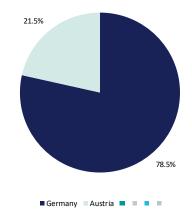


#### Composition of primary assets



Source: vdp, NORD/LB Markets Strategy & Floor Research

#### Regional distribution of claims



Public sector

90.8% (EUR 10-100m)

35

37

89.5%

100.0%

100.0%

0.00%

\_

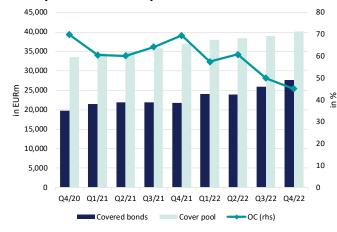
6,282,096

## **Commerzbank**

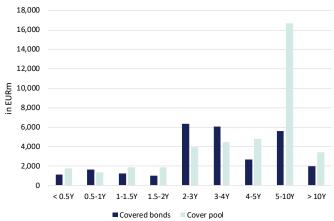
#### Cover pool data

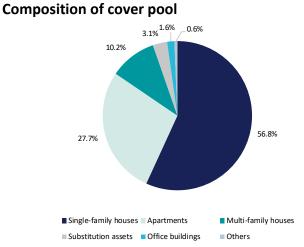
Cover pool (EURm)	40,107.5	Number of loans	302,350
of which residential	94.7%	Number of borrowers	235,721
of which commercial	2.2%	Number of properties	264,351
of which substitution assets	3.1%	Avg. exposure to borrowers (EUR)	164,833
of which derivatives	0.0%	Share of 10 largest borrowers	1.5%
Covered bonds (EURm)	27,632.6	Share of owner-occupied dwellings	16.1%
OC (EURm)	12,475.0	Share of multi-familiy houses	10.2%
OC	45.1%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	98.4%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	74.6%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	5.7y	Share of largest exposure tranche	75.0% (< EUR 0.3m)
WAL (Covered Bonds)	4.5y	Avg. seasoning	5.0y
Avg. LTV (Original value)	51.7%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data

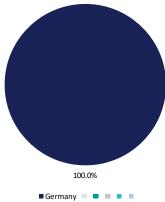








#### **Regional distribution of properties**



## Mortgage

NORD/LB

## Commerzbank

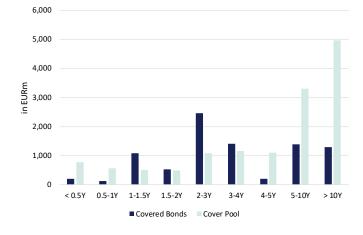
## Cover pool data

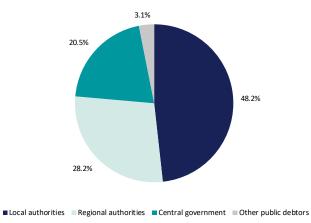
Cover pool (EURm)	13,958.3	Number of loans	1,461
of which substitution assets	0.0%	Number of borrowers	712
of which derivatives	0.0%	Share of 10 largest borrowers	27.1%
Covered bonds (EURm)	8,688.9	Avg. exposure to borrowers (EUR)	19,604,415
OC (EURm)	5,269.4	EUR share (Cover pool)	78.0%
OC	60.6%	EUR share (Covered bonds)	96.8%
Fixed interest (Cover pool)	75.4%	Largest FX position (NPV in EURm)	GBP (1,033.4)
Fixed interest (Covered bonds)	48.9%	Share of largest exposure tranche	53.4% (> EUR 100m)
WAL (Cover pool)	10.3y	Loans in arrears (>90 days)	0.00%
WAL (Covered Bonds)	4.7y		

#### Development of cover pool data



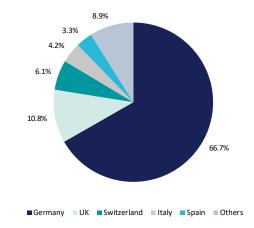
#### **Maturity structure**





#### **Composition of primary assets**

#### Regional distribution of claims



Source: vdp, NORD/LB Markets Strategy & Floor Research

## **Public sector**

## Commerzbank

#### Cover pool data

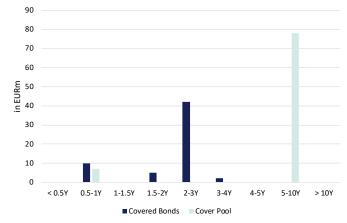
85.1
100.0%
0.0%
59.0
26.1
44.2%
100.0%
100.0%
6.4y
2.4y

85.1	Number of loans	n/a
.0%	Number of borrowers	n/a
.0%	Avg. exposure to borrowers (EUR)	n/a
9.0	Largest FX position (NPV in EURm)	-
6.1	Share of largest exposure tranche	n/a
.2%	Loans in arrears (>90 days)	0.00%
.0%		

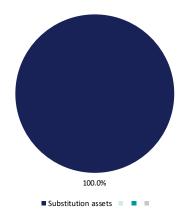
#### Development of cover pool data



#### **Maturity structure**



#### Composition of cover pool



Source: vdp, NORD/LB Markets Strategy & Floor Research

## Regional distribution of primary assets

## Ship

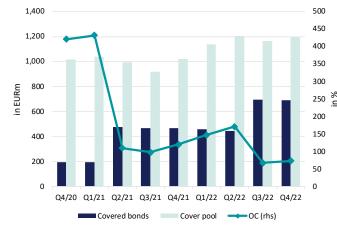


## **DekaBank**

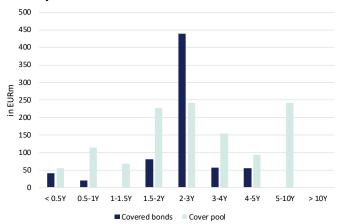
#### Cover pool data

Cover pool (EURm) 1,194.3 Number of loans 27 of which residential 0.0% Number of borrowers 29 of which commercial 91.7% Number of properties 40 of which substitution assets Avg. exposure to borrowers (EUR) 37,759,207 8.3% of which derivatives 0.0% Share of 10 largest borrowers 46.2% Covered bonds (EURm) Share of owner-occupied dwellings 691.0 0.0% OC (EURm) 503.3 Share of multi-familiy houses 0.0% ос 72.8% EUR share (Cover pool) 100.0% 66.7% EUR share (Covered bonds) 100.0% Fixed interest (Cover pool) Largest FX position (NPV in EURm) Fixed interest (Covered bonds) 100.0% WAL (Cover pool) 3.2v Share of largest exposure tranche 100.0% (> EUR 10m) WAL (Covered Bonds) 2.6y Avg. seasoning 3.3y Avg. LTV (Original value) 59.8% Loans in arrears (>90 days) 0.00% Avg. LTV (Market value) n/a

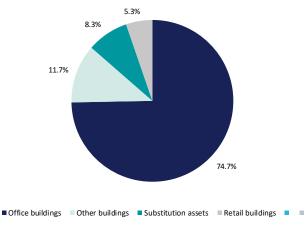
#### Development of cover pool data



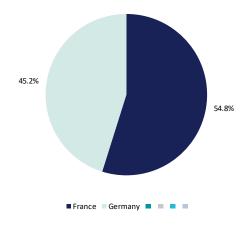
#### **Maturity structure**



## **Composition of cover pool**

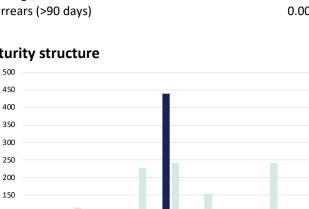


## **Regional distribution of properties**



## Mortgage

Source: vdp, NORD/LB Markets Strategy & Floor Research

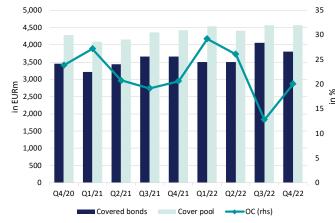


## DekaBank

#### Cover pool data

- Cover pool (EURm) of which substitution assets of which derivatives
- Covered bonds (EURm) OC (EURm) OC
- Fixed interest (Cover pool) Fixed interest (Covered bonds)
- WAL (Cover pool)
- WAL (Covered Bonds)

#### Development of cover pool data



#### Maturity structure

4,571.9

3,807.4

0.6%

0.0%

764.5

20.1%

80.8%

5.8y

4.7y

100.0%

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

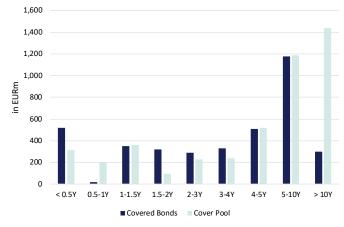
Loans in arrears (>90 days)

Share of 10 largest borrowers

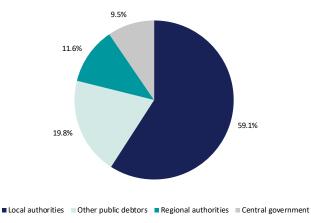
Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

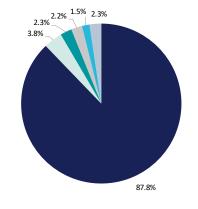
Share of largest exposure tranche



#### Composition of primary assets



#### **Regional distribution of claims**



Germany UK Denmark Netherlands Latvia Others

Source: vdp, NORD/LB Markets Strategy & Floor Research

## **Public sector**

289
94
34.5%
48,326,564
97.7%
98.8%
USD (63.0)
58.1% (EUR 10-100m)
0.00%

## Deutsche Apotheker- und Ärztebank

#### Cover pool data

Cover pool (EURm)
of which residential
of which commercial
of which substitution assets
of which derivatives
Covered bonds (EURm)
OC (EURm)
OC
Fixed interest (Cover pool)
Fixed interest (Covered bonds)
WAL (Cover pool)
WAL (Covered Bonds)
Avg. LTV (Original value)
Avg. LTV (Market value)

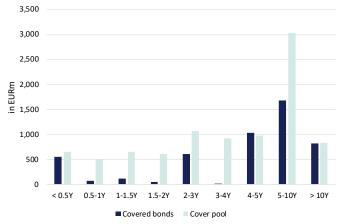
#### 9,242.9 Number of loans 81,377 75.6% Number of borrowers 44,791 17.6% Number of properties 59,862 Avg. exposure to borrowers (EUR) 192,291 6.8% 0.0% Share of 10 largest borrowers 5.4% 4,949.1 Share of owner-occupied dwellings 52.5% 4,293.8 Share of multi-familiy houses 9.4% EUR share (Cover pool) 100.0% 86.8% 92.9% EUR share (Covered bonds) 100.0% Largest FX position (NPV in EURm) 97.8% 4.9v Share of largest exposure tranche 71.1% (< EUR 0.3m) 6.8y Avg. seasoning 5.9y 54.6% Loans in arrears (>90 days) 0.00% n/a

#### Development of cover pool data

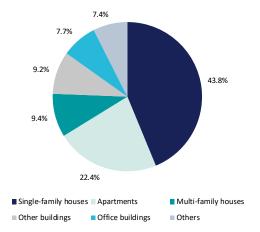


#### Maturity structure

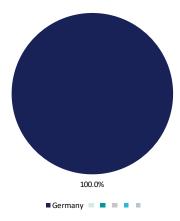
in %



#### Composition of cover pool



#### **Regional distribution of properties**



## tebank

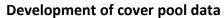
Source: vdp, NORD/LB Markets Strategy & Floor Research

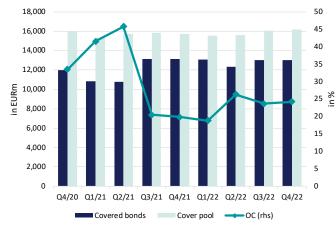
## Mortgage

## **Deutsche Bank**

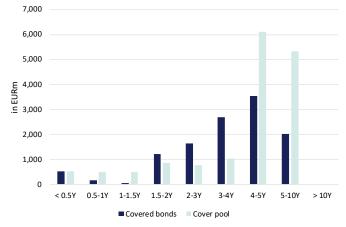
#### Cover pool data

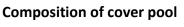
Cover pool (EURm)	16,192.8	Number of loans	n/a
of which residential	89.6%	Number of borrowers	n/a
of which commercial	6.3%	Number of properties	n/a
of which substitution assets	4.1%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	13,038.0	Share of owner-occupied dwellings	n/a
OC (EURm)	3,154.8	Share of multi-familiy houses	n/a
OC	24.2%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	99.4%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	82.9%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	79.9% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	5.4y
Avg. LTV (Original value)	53.8%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

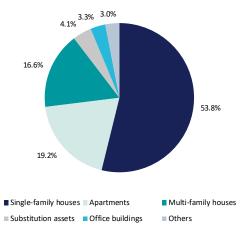




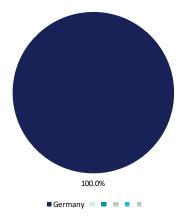
#### **Maturity structure**







## Regional distribution of properties



## Mortgage

NORD/LB

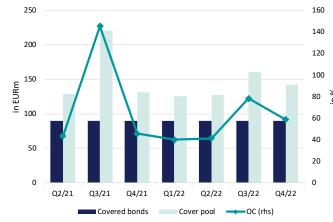
Source: Deutsche Bank, NORD/LB Markets Strategy & Floor Research

## **Deutsche Bank**

#### Cover pool data

- Cover pool (EURm) of which substitution assets of which derivatives Covered bonds (EURm) OC (EURm) OC
- Fixed interest (Cover pool) Fixed interest (Covered bonds)
- WAL (Cover pool) WAL (Covered Bonds)

#### Development of cover pool data



#### **Maturity structure**

Number of loans

142.8

0.0%

0.0%

90.0

52.8

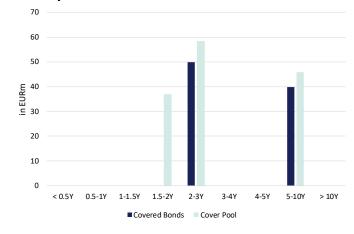
58.7%

100.0%

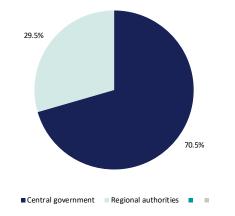
100.0%

n/a

n/a

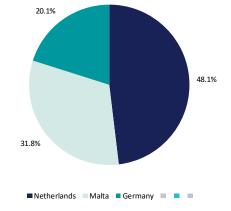


#### **Composition of primary assets**



Source: Deutsche Bank, NORD/LB Markets Strategy & Floor Research

#### **Regional distribution of claims**



## **Public sector**

n/a

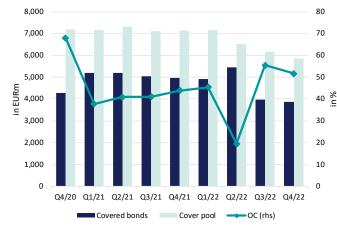
Number of borrowers	n/a
Share of 10 largest borrowers	n/a
Avg. exposure to borrowers (EUR)	n/a
EUR share (Cover pool)	n/a
EUR share (Covered bonds)	n/a
Largest FX position (NPV in EURm)	-
Share of largest exposure tranche	100.0% (EUR 10-100m)
Loans in arrears (>90 days)	0.00%

## Deutsche Kreditbank

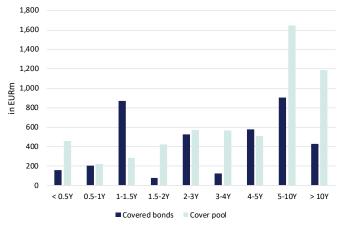
#### Cover pool data

Cover pool (EURm)	5,864.0	Number of loans
of which residential	92.7%	Number of borrowers
of which commercial	1.9%	Number of properties
of which substitution assets	5.4%	Avg. exposure to borrowers (EUR)
of which derivatives	0.0%	Share of 10 largest borrowers
Covered bonds (EURm)	3,867.5	Share of owner-occupied dwellings
OC (EURm)	1,996.5	Share of multi-familiy houses
OC	51.6%	EUR share (Cover pool)
Fixed interest (Cover pool)	94.9%	EUR share (Covered bonds)
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)
WAL (Cover pool)	n/a	Share of largest exposure tranche
WAL (Covered Bonds)	n/a	Avg. seasoning
Avg. LTV (Original value)	50.5%	Loans in arrears (>90 days)
Avg. LTV (Market value)	n/a	

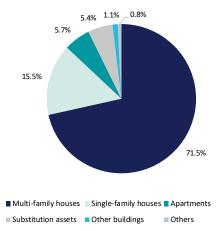
#### Development of cover pool data



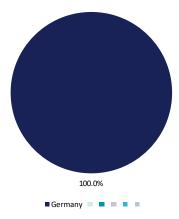
#### **Maturity structure**



#### Composition of cover pool



#### **Regional distribution of properties**



## Mortgage

42.2% (EUR 1-10m)

n/a n/a n/a n/a n/a n/a n/a

9.5y 0.00%

NORD/LB

## **Deutsche Kreditbank**

#### Cover pool data

- Cover pool (EURm) of which substitution assets
- of which derivatives
- Covered bonds (EURm)
- OC (EURm)
- OC
- Fixed interest (Cover pool)
- Fixed interest (Covered bonds)
- WAL (Cover pool) WAL (Covered Bonds)

#### Development of cover pool data



#### Maturity structure

7,050.4

0.0%

0.0%

4,152.8

2,897.6

69.8%

97.3%

94.0%

n/a

n/a

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

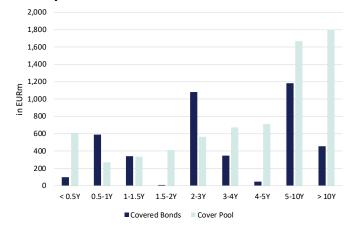
Loans in arrears (>90 days)

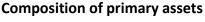
Share of 10 largest borrowers

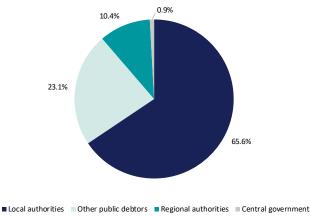
Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

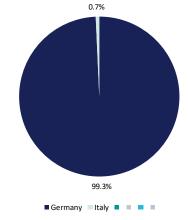






Source: vdp, NORD/LB Markets Strategy & Floor Research

### Regional distribution of claims





48.0% (EUR 10-100m)

n/a

n/a

n/a

n/a

n/a

n/a

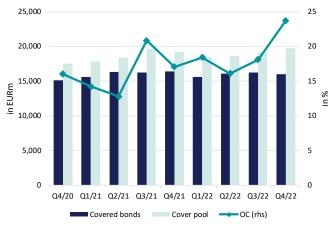
0.00%

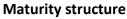
## **Deutsche Pfandbriefbank**

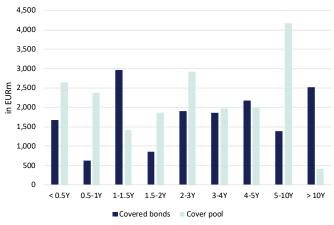
#### Cover pool data

Cover pool (EURm)	19,773.0	Number of loans	1,533
of which residential	15.4%	Number of borrowers	766
of which commercial	77.9%	Number of properties	3,078
of which substitution assets	6.7%	Avg. exposure to borrowers (EUR)	24,077,023
of which derivatives	0.0%	Share of 10 largest borrowers	7.7%
Covered bonds (EURm)	15,981.0	Share of owner-occupied dwellings	0.0%
OC (EURm)	3,792.0	Share of multi-familiy houses	13.3%
OC	23.7%	EUR share (Cover pool)	70.9%
Fixed interest (Cover pool)	56.5%	EUR share (Covered bonds)	77.5%
Fixed interest (Covered bonds)	90.4%	Largest FX position (NPV in EURm)	USD (1,683.0)
WAL (Cover pool)	3.7у	Share of largest exposure tranche	93.1% (> EUR 10m)
WAL (Covered Bonds)	5.4y	Avg. seasoning	3.5y
Avg. LTV (Original value)	55.6%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	32.1%		

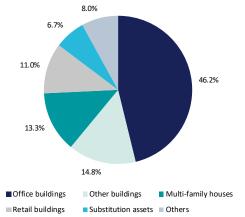
#### Development of cover pool data



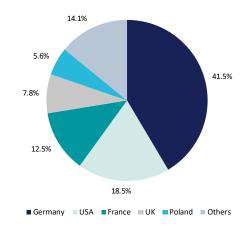




**Composition of cover pool** 



## **Regional distribution of properties**



**Public sector** 

## **Deutsche Pfandbriefbank**

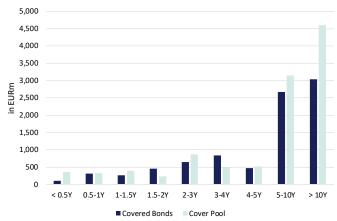
#### Cover pool data

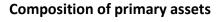
Cover pool (EURm)	10,913.0	Number of loans	465
of which substitution assets	0.0%	Number of borrowers	198
of which derivatives	0.0%	Share of 10 largest borrowers	59.7%
Covered bonds (EURm)	8,771.0	Avg. exposure to borrowers (EUR)	55,101,010
OC (EURm)	2,142.0	EUR share (Cover pool)	94.3%
OC	24.4%	EUR share (Covered bonds)	99.2%
Fixed interest (Cover pool)	75.6%	Largest FX position (NPV in EURm)	GBP (211.0)
Fixed interest (Covered bonds)	76.9%	Share of largest exposure tranche	67.6% (> EUR 100m)
WAL (Cover pool)	8.4y	Loans in arrears (>90 days)	0.00%
WAL (Covered Bonds)	7.2y		

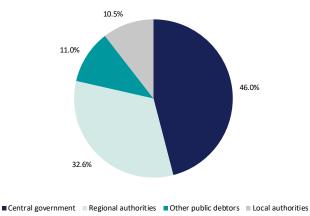
#### Development of cover pool data



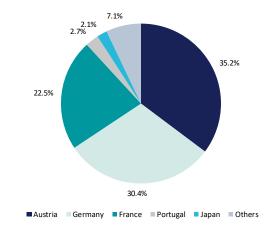
#### Maturity structure







#### **Regional distribution of claims**

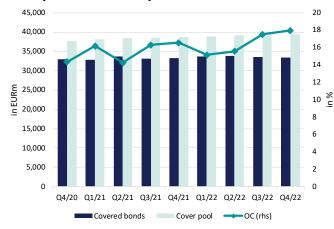


## **DZ HYP**

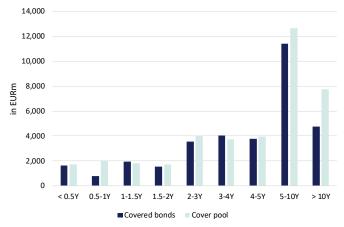
#### Cover pool data . .....

Cover pool (EURm)	39,429.0	Number of loans	109,997
of which residential	56.0%	Number of borrowers	95,386
of which commercial	41.6%	Number of properties	109,722
of which substitution assets	2.4%	Avg. exposure to borrowers (EUR)	403,424
of which derivatives	0.0%	Share of 10 largest borrowers	4.3%
Covered bonds (EURm)	33,425.1	Share of owner-occupied dwellings	23.1%
OC (EURm)	6,003.9	Share of multi-familiy houses	31.1%
OC	18.0%	EUR share (Cover pool)	99.3%
Fixed interest (Cover pool)	90.1%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	99.5%	Largest FX position (NPV in EURm)	GBP (201.9)
WAL (Cover pool)	6.6y	Share of largest exposure tranche	40.4% (> EUR 10m)
WAL (Covered Bonds)	6.2y	Avg. seasoning	5.1y
Avg. LTV (Original value)	54.1%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data

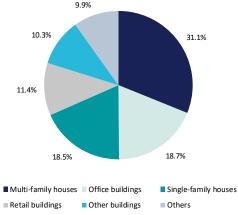


#### **Maturity structure**

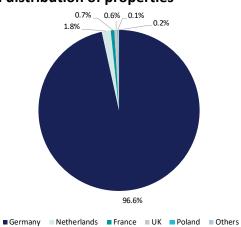




**Composition of cover pool** 



#### **Regional distribution of properties**



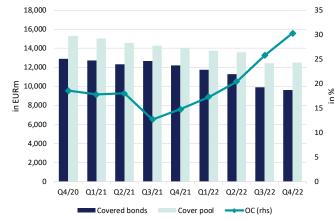
## Mortgage

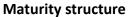
## DZ HYP

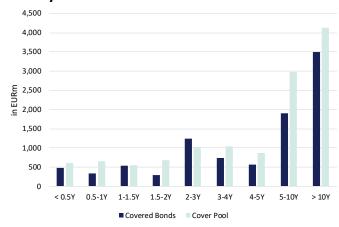
#### Cover pool data

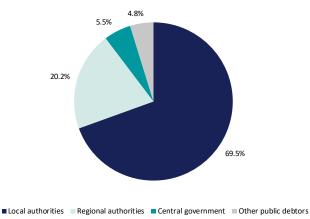
Cover pool (EURm) of which substitution assets of which derivatives Covered bonds (EURm) OC (EURm) OC Fixed interest (Cover pool) Fixed interest (Covered bonds) WAL (Cover pool) WAL (Covered Bonds)

#### Development of cover pool data









#### **Composition of primary assets**

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

Loans in arrears (>90 days)

Share of 10 largest borrowers

Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

12,522.9

0.0%

0.0%

9,611.7

2,911.3

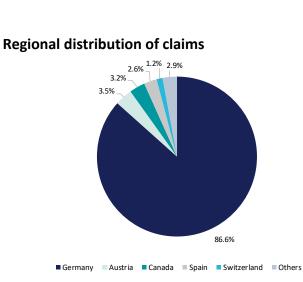
30.3%

97.9%

93.5%

7.9y

7.6y



**Public sector** 

16,776
4,929
16.4%
2,540,666
95.1%
94.9%
CHF (51.4)
45.7% (< EUR 10m)
0.00%



## **Hamburg Commercial Bank**

#### Cover pool data

5,000

4,500

4,000

3,500

3,000 in EURm

2,500

2,000

1,500

1.000

500 0

Cover pool (EURm)
of which residential
of which commercial
of which substitution assets
of which derivatives
Covered bonds (EURm)
OC (EURm)
OC
Fixed interest (Cover pool)
Fixed interest (Covered bonds)
WAL (Cover pool)
WAL (Covered Bonds)
Avg. LTV (Original value)
Avg. LTV (Market value)

Development of cover pool data

#### 3,266.8 Share of owner-occup 771.5 Share of multi-familiy 23.6% EUR share (Cover poo 63.0% EUR share (Covered b 100.0% Largest FX position (N 4.6v Share of largest expo 2.9y Avg. seasoning Loans in arrears (>90 days) 56.9% n/a **Maturity structure** 40 1,200

Number of loans

4,038.3

13.9%

67.4%

11.4%

0.0%

35

30

25

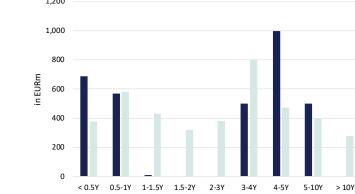
15

10

5

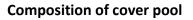
0

20 <sup>%</sup>⊑

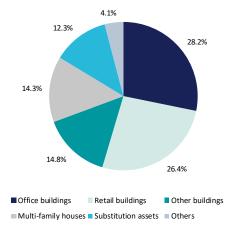


Covered bonds

Cover pool



Covered bonds

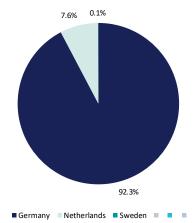


Q4/20 Q1/21 Q2/21 Q3/21 Q4/21 Q1/22 Q2/22 Q3/22 Q4/22

Cover pool 🔫

OC (rhs)

### **Regional distribution of properties**



## Mortgage

365

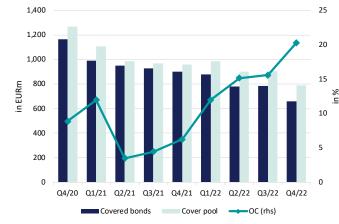
	505
Number of borrowers	217
Number of properties	691
Avg. exposure to borrowers (EUR)	15,139,568
Share of 10 largest borrowers	24.0%
Share of owner-occupied dwellings	0.0%
Share of multi-familiy houses	13.3%
EUR share (Cover pool)	93.1%
EUR share (Covered bonds)	100.0%
Largest FX position (NPV in EURm)	USD (258.7)
Share of largest exposure tranche	80.0% (> EUR 10m)
Avg. seasoning	5.1y
Loans in arrears (>90 days)	0.00%

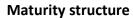
## Hamburg Commercial Bank

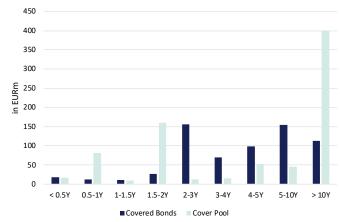
#### Cover pool data

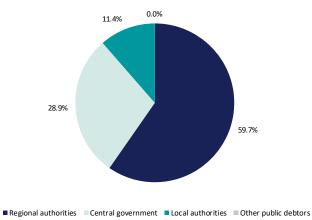
Cover pool (EURm)	790.7	Number of loans	60
of which substitution assets	0.0%	Number of borrowers	37
of which derivatives	0.0%	Share of 10 largest borrowers	90.0%
Covered bonds (EURm)	657.2	Avg. exposure to borrowers (EUR)	21,371,270
OC (EURm)	133.5	EUR share (Cover pool)	79.5%
OC	20.3%	EUR share (Covered bonds)	100.0%
Fixed interest (Cover pool)	82.4%	Largest FX position (NPV in EURm)	CHF (108.8)
Fixed interest (Covered bonds)	90.9%	Share of largest exposure tranche	51.4% (> EUR 100m)
WAL (Cover pool)	9.7y	Loans in arrears (>90 days)	0.11%
WAL (Covered Bonds)	5.7y		

#### Development of cover pool data



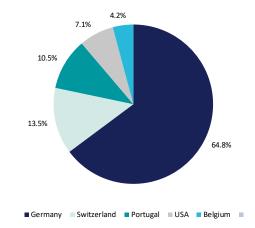






#### **Composition of primary assets**

#### **Regional distribution of claims**



Source: vdp, NORD/LB Markets Strategy & Floor Research

## **Public sector**

## Hamburg Commercial Bank

#### Cover pool data

Cover pool (EURm)	2,507.1
of which substitution assets	8.1%
of which derivatives	0.0%
Covered bonds (EURm)	1,873.0
OC (EURm)	634.1
OC	33.9%
Fixed interest (Cover pool)	41.3%
Fixed interest (Covered bonds)	13.3%
WAL (Cover pool)	3.6y
WAL (Covered Bonds)	1.9y

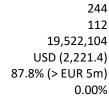


**Maturity structure** 

100

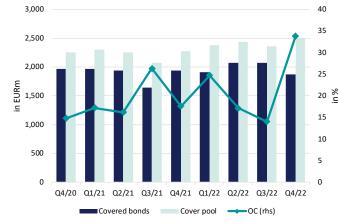
0

< 0.5Y



NORD/LB

#### Development of cover pool data



#### 800 700 600 500 in EURm 400 300 200

Covered Bonds Cover Pool

2-3Y

3-4Y

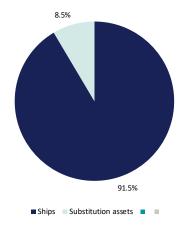
4-5Y

5-10Y

> 10Y

1.5-2Y

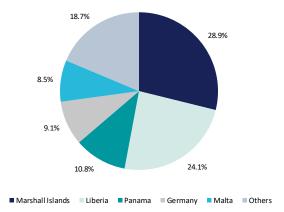
#### **Composition of cover pool**



#### **Regional distribution of primary assets**

1-1.5Y

0.5-1Y



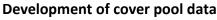
Source: vdp, NORD/LB Markets Strategy & Floor Research

## Ship

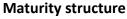
## Hamburger Sparkasse

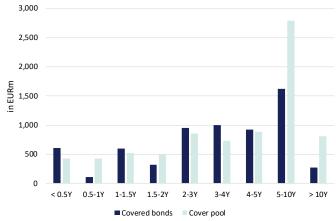
#### Cover pool data

Cover pool (EURm)	7,96
of which residential	65
of which commercial	27
of which substitution assets	6
of which derivatives	0
Covered bonds (EURm)	6,41
OC (EURm)	1,54
OC	24
Fixed interest (Cover pool)	84
Fixed interest (Covered bonds)	99
WAL (Cover pool)	
WAL (Covered Bonds)	
Avg. LTV (Original value)	52
Avg. LTV (Market value)	

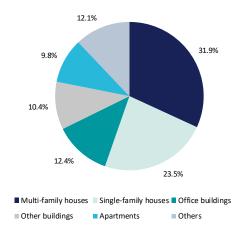




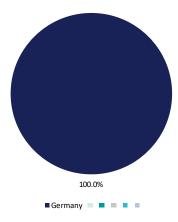




#### **Composition of cover pool**

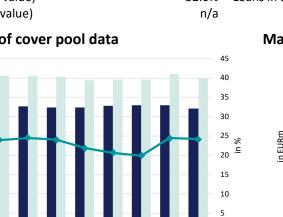


#### **Regional distribution of properties**



## Mortgage

7,960.9	Number of loans	n/a
65.1%	Number of borrowers	n/a
27.9%	Number of properties	n/a
6.9%	Avg. exposure to borrowers (EUR)	n/a
0.0%	Share of 10 largest borrowers	n/a
6,411.9	Share of owner-occupied dwellings	n/a
1,549.0	Share of multi-familiy houses	n/a
24.2%	EUR share (Cover pool)	n/a
84.7%	EUR share (Covered bonds)	n/a
99.4%	Largest FX position (NPV in EURm)	-
n/a	Share of largest exposure tranche	32.1% (EUR 1-10m)
n/a	Avg. seasoning	7.5y
52.0%	Loans in arrears (>90 days)	0.00%



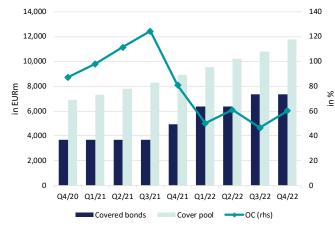
## ING-DiBa

## Cover pool data

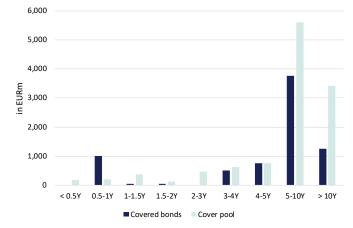
Cover pool (EURm)	11,784.6	Number of loans	90,851
of which residential	95.6%	Number of borrowers	89,402
of which commercial	0.0%	Number of properties	90,851
of which substitution assets	4.4%	Avg. exposure to borrowers (EUR)	125,976
of which derivatives	0.0%	Share of 10 largest borrowers	0.2%
Covered bonds (EURm)	7,355.0	Share of owner-occupied dwellings	78.2%
OC (EURm)	4,429.6	Share of multi-familiy houses	0.0%
OC	60.2%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	99.3%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	8.4y	Share of largest exposure tranche	87.1% (< EUR 0.3m)
WAL (Covered Bonds)	6.5y	Avg. seasoning	4.8y
Avg. LTV (Original value)	54.5%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	47.8%		

#### Development of cover pool data

**Composition of cover pool** 



#### **Maturity structure**

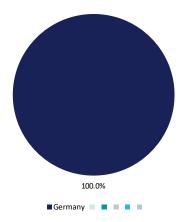


# 31.7%

Single-family houses Apartments Substitution assets

Source: vdp, NORD/LB Markets Strategy & Floor Research

#### **Regional distribution of properties**



## Mortgage

### Kreissparkasse Köln

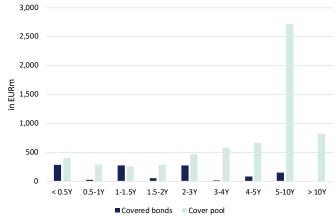
#### Cover pool data

Cover pool (EURm)	6,465.9	Number of loans	46,588
of which residential	83.7%	Number of borrowers	37,287
of which commercial	11.7%	Number of properties	43,806
of which substitution assets	4.7%	Avg. exposure to borrowers (EUR)	165,307
of which derivatives	0.0%	Share of 10 largest borrowers	1.8%
Covered bonds (EURm)	1,142.5	Share of owner-occupied dwellings	n/a
OC (EURm)	5,323.4	Share of multi-familiy houses	23.9%
OC	465.9%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	5.7y	Share of largest exposure tranche	66.1% (< EUR 0.3m)
WAL (Covered Bonds)	2.3y	Avg. seasoning	5.2y
Avg. LTV (Original value)	53.3%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

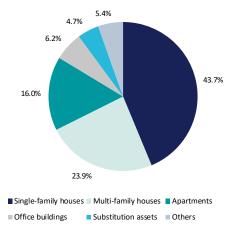
#### Development of cover pool data



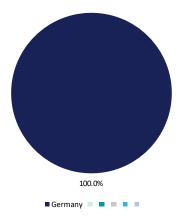
#### **Maturity structure**



### **Composition of cover pool**



### **Regional distribution of properties**



# Mortgage

Source: vdp, NORD/LB Markets Strategy & Floor Research



## Kreissparkasse Köln

#### Cover pool data

- Cover pool (EURm)
- of which substitution assets of which derivatives
- Covered bonds (EURm)
- OC (EURm)

OC

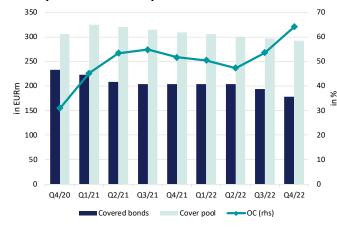
Fixed interest (Cover pool)

WAL (Covered Bonds)

Fixed interest (Covered bonds)

WAL (Cover pool)

### Development of cover pool data



#### Maturity structure

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

Loans in arrears (>90 days)

Share of 10 largest borrowers

Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

292.7

0.0%

0.0%

178.4

114.3

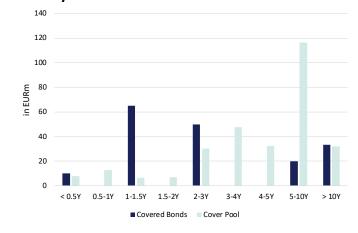
64.1%

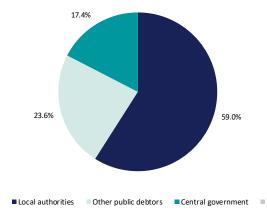
100.0%

100.0%

5.1y

4.0y

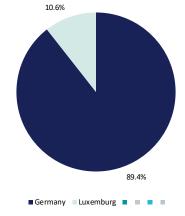




### Composition of primary assets

### Source: vdp, NORD/LB Markets Strategy & Floor Research

# Regional distribution of claims



# **Public sector**

62.5% (EUR 10-100m)

142

47

n/a

n/a

0.00%

\_

73.4%

6,228,033

Dublic	coctor

## Landesbank Baden-Württemberg

### Cover pool data

20,000

18,000

16,000

14,000

12,000

10,000

8.000

6,000

4,000

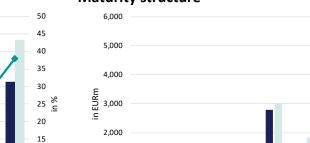
2.000

0

in EURm

#### Cover pool (EURm) 17,334.6 Number of loans of which residential 41.4% Number of borrowers of which commercial 53.9% Number of properties Avg. exposure to borrowers (EUR) of which substitution assets 4.7% of which derivatives 0.0% Share of 10 largest borrowers Covered bonds (EURm) Share of owner-occupied dwellings 12,558.0 OC (EURm) 4,776.6 Share of multi-familiy houses EUR share (Cover pool) OC 38.0% 81.0% EUR share (Covered bonds) Fixed interest (Cover pool) Largest FX position (NPV in EURm) Fixed interest (Covered bonds) 64.2% WAL (Cover pool) 4.7v Share of largest exposure tranche WAL (Covered Bonds) 4.0y Avg. seasoning Avg. LTV (Original value) 55.4% Loans in arrears (>90 days) Avg. LTV (Market value) n/a

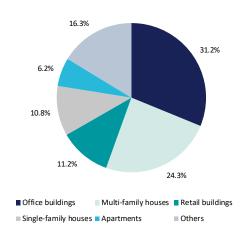
# 6,000



**Composition of cover pool** 

Covered bonds

Development of cover pool data



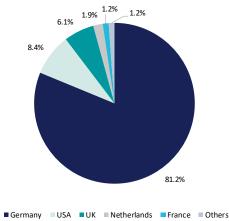
Q4/20 Q1/21 Q2/21 Q3/21 Q4/21 Q1/22 Q2/22 Q3/22 Q4/22

Cover pool

-

OC (rhs)

### **Regional distribution of properties**

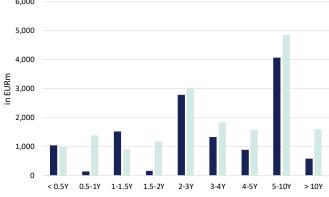


# **Maturity structure**

10

5

0



Cover pool

Covered bonds



35,162

26.821

33,014

615,968

13.5%

16.0%

24.3%

85.0%

94.0%

5.6y

0.00%

GBP (915.4)

60.7% (> EUR 10m)

# NORD/LB

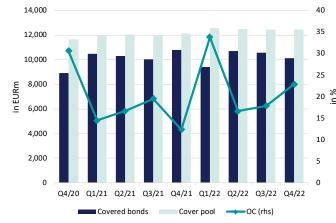
**Public sector** 

### Landesbank Baden-Württemberg

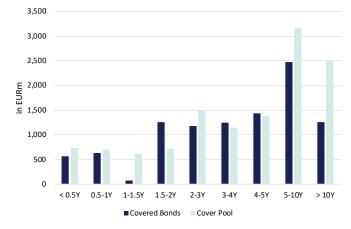
#### Cover pool data

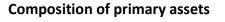
Cover pool (EURm)	12,464.5	Number of loans	7,325
of which substitution assets	0.0%	Number of borrowers	2,863
of which derivatives	0.0%	Share of 10 largest borrowers	22.2%
Covered bonds (EURm)	10,141.8	Avg. exposure to borrowers (EUR)	4,353,661
OC (EURm)	2,322.8	EUR share (Cover pool)	97.7%
OC	22.9%	EUR share (Covered bonds)	98.9%
Fixed interest (Cover pool)	74.4%	Largest FX position (NPV in EURm)	USD (183.9)
Fixed interest (Covered bonds)	70.0%	Share of largest exposure tranche	49.7% (> EUR 100m)
WAL (Cover pool)	6.2y	Loans in arrears (>90 days)	0.00%
WAL (Covered Bonds)	4.9y		

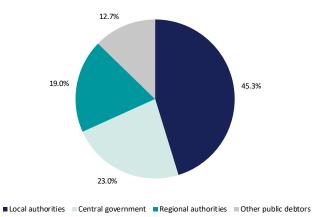
#### Development of cover pool data



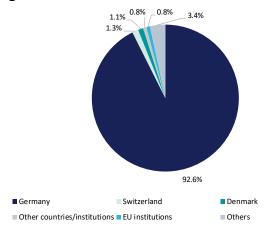
#### Maturity structure







### **Regional distribution of claims**

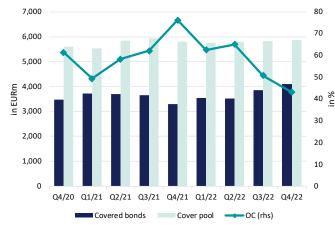


### Landesbank Berlin

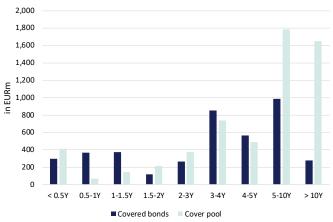
#### Cover pool data

Cover pool (EURm)	5,862.2	Number of loans	8,411
of which residential	66.0%	Number of borrowers	7,591
of which commercial	29.0%	Number of properties	8,634
of which substitution assets	5.0%	Avg. exposure to borrowers (EUR)	733,599
of which derivatives	0.0%	Share of 10 largest borrowers	23.1%
Covered bonds (EURm)	4,098.0	Share of owner-occupied dwellings	4.6%
OC (EURm)	1,764.2	Share of multi-familiy houses	52.2%
OC	43.1%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	91.0%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	97.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	11.0y	Share of largest exposure tranche	56.7% (> EUR 10m)
WAL (Covered Bonds)	4.5y	Avg. seasoning	5.0y
Avg. LTV (Original value)	54.0%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

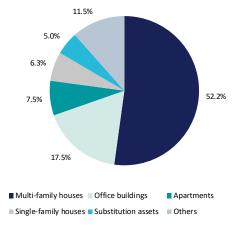
#### Development of cover pool data



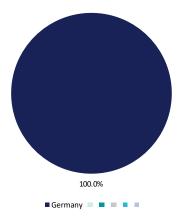
#### **Maturity structure**



## **Composition of cover pool**



### **Regional distribution of properties**



### Mortgage

NORD/LB

### Landesbank Berlin

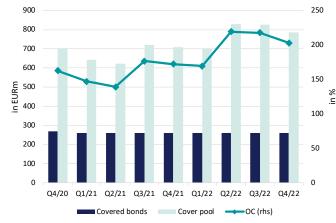
#### Cover pool data

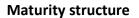
- Cover pool (EURm) of which substitution assets of which derivatives
- Covered bonds (EURm) OC (EURm)
- OC Fixed interest (Cover pool)

Fixed interest (Covered bonds)

WAL (Cover pool) WAL (Covered Bonds)

### Development of cover pool data





787.2

0.0%

0.0%

260.0

527.2

202.8%

100.0%

100.0%

5.9y

2.5y

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

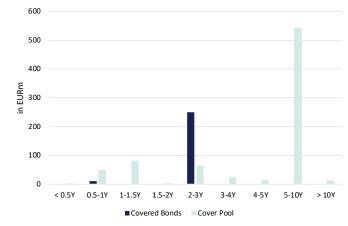
Loans in arrears (>90 days)

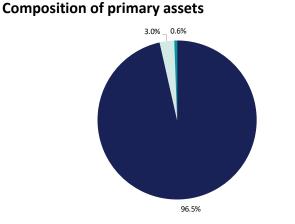
Share of 10 largest borrowers

Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

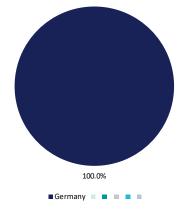




■ Other public debtors ■ Regional authorities ■ Local authorities ■

Source: vdp, NORD/LB Markets Strategy & Floor Research

### **Regional distribution of claims**



### **Public sector**

32

17

\_

98.1%

100.0%

100.0%

0.00%

46,304,765

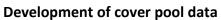
91.5% (> EUR 100m)

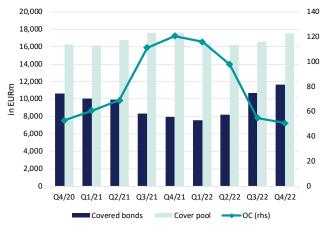
## Landesbank Hessen-Thüringen

### Cover pool data

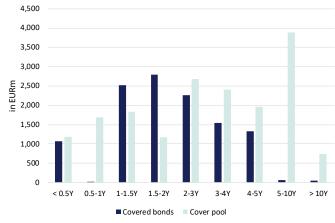
#### Cover pool (EURm) 17,544.3 Number of loans of which residential 28.6% Number of borrowers of which commercial 64.7% of which substitution assets 6.7% of which derivatives 0.0% Covered bonds (EURm) 11,653.7 OC (EURm) 5,890.7 OC 50.5% 68.4% Fixed interest (Cover pool) Fixed interest (Covered bonds) 70.6% WAL (Cover pool) 3.8v WAL (Covered Bonds) 2.3y Avg. LTV (Original value) 59.0% Avg. LTV (Market value) n/a

#### Number of properties Avg. exposure to borrowers (EUR) 1,878,592 Share of 10 largest borrowers Share of owner-occupied dwellings Share of multi-familiy houses EUR share (Cover pool) EUR share (Covered bonds) Largest FX position (NPV in EURm) USD (3,687.1) Share of largest exposure tranche 86.7% (> EUR 10m) Avg. seasoning Loans in arrears (>90 days)

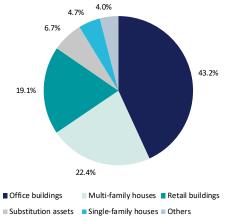




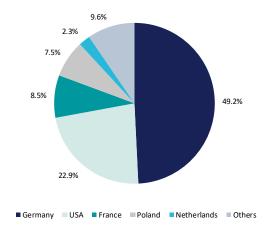
### Maturity structure



**Composition of cover pool** 



### **Regional distribution of properties**



9,981

8.717

10,647

8.7%

6.6%

22.4%

72.7%

4.6y

0.00%

100.0%

# NORD/LB

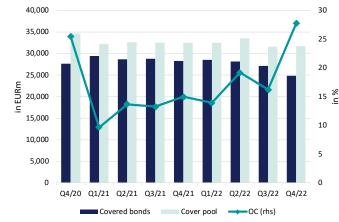
**Public sector** 

### Landesbank Hessen-Thüringen

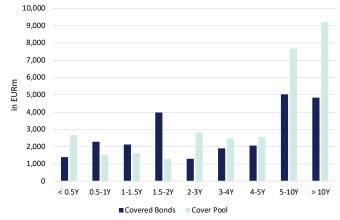
#### Cover pool data

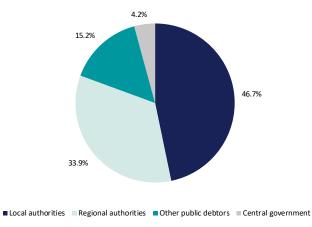
Cover pool (EURm)	31,780.6	Number of loans	19,733
of which substitution assets	0.0%	Number of borrowers	4,679
of which derivatives	0.0%	Share of 10 largest borrowers	32.0%
Covered bonds (EURm)	24,879.0	Avg. exposure to borrowers (EUR)	6,792,185
OC (EURm)	6,901.6	EUR share (Cover pool)	98.8%
OC	27.7%	EUR share (Covered bonds)	100.0%
Fixed interest (Cover pool)	93.9%	Largest FX position (NPV in EURm)	USD (294.9)
Fixed interest (Covered bonds)	68.1%	Share of largest exposure tranche	62.3% (> EUR 100m)
WAL (Cover pool)	7.5y	Loans in arrears (>90 days)	0.00%
WAL (Covered Bonds)	5.7y		

#### Development of cover pool data

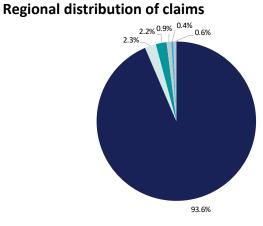


#### Maturity structure





#### **Composition of primary assets**



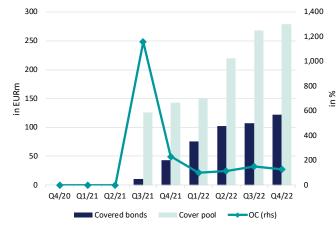
Germany Belgium Austria France Switzerland Others

### LIGA Bank

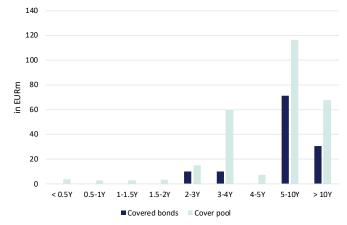
### Cover pool data

Cover pool (EURm)	279.5	Number of loans	n/a
of which residential	96.4%	Number of borrowers	n/a
of which commercial	0.0%	Number of properties	n/a
of which substitution assets	0.0%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	122.0	Share of owner-occupied dwellings	n/a
OC (EURm)	157.5	Share of multi-familiy houses	n/a
OC	129.1%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	56.2% (EUR 1-10m)
WAL (Covered Bonds)	n/a	Avg. seasoning	4.3y
Avg. LTV (Original value)	52.1%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

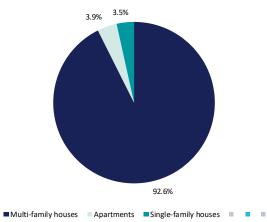
#### Development of cover pool data



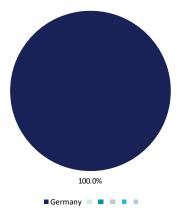
#### **Maturity structure**



### Composition of cover pool



### Regional distribution of properties



# K

## Mortgage

# NORD/LB

### LIGA Bank

#### Cover pool data

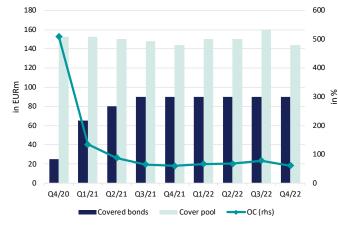
- Cover pool (EURm) of which substitution assets
- of which derivatives
- Covered bonds (EURm)
- OC (EURm)
- OC
- Fixed interest (Cover pool)

Fixed interest (Covered bonds)

WAL (Cover pool)

WAL (Covered Bonds)

#### Development of cover pool data



#### Maturity structure

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

Loans in arrears (>90 days)

Share of 10 largest borrowers

Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

144.2

0.0%

0.0%

90.0

54.2

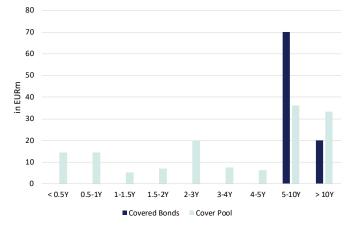
60.3%

100.0%

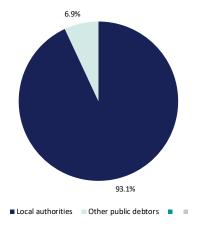
100.0%

n/a

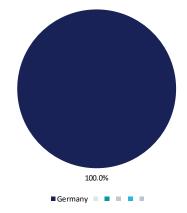
n/a



### **Composition of primary assets**



### Regional distribution of claims



Source: vdp, NORD/LB Markets Strategy & Floor Research

# **Public sector**

53.1% (< EUR 10m)

n/a

n/a

n/a

n/a

n/a

n/a

0.00%

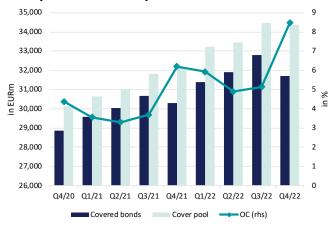
## Münchener Hypothekenbank

### Cover pool data

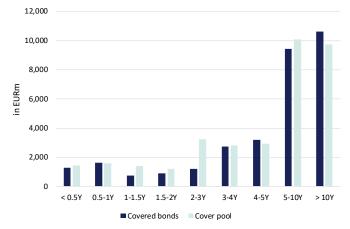
Cover pool (EURm)	34,377.0	Number of loans	202,050
of which residential	80.8%	Number of borrowers	177,698
of which commercial	17.5%	Number of properties	189,104
of which substitution assets	1.7%	Avg. exposure to borrowers (EUR)	190,185
of which derivatives	0.0%	Share of 10 largest borrowers	2.0%
Covered bonds (EURm)	31,693.9	Share of owner-occupied dwellings	53.0%
OC (EURm)	2,683.1	Share of multi-familiy houses	15.2%
OC	8.5%	EUR share (Cover pool)	82.8%
Fixed interest (Cover pool)	96.0%	EUR share (Covered bonds)	86.4%
Fixed interest (Covered bonds)	91.0%	Largest FX position (NPV in EURm)	CHF (795.2)
WAL (Cover pool)	9.2y	Share of largest exposure tranche	58.2% (< EUR 0.3m)
WAL (Covered Bonds)	8.6y	Avg. seasoning	5.0y
Avg. LTV (Original value)	52.0%	Loans in arrears (>90 days)	0.03%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data

**Composition of cover pool** 

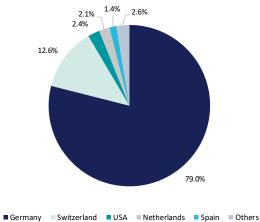


#### **Maturity structure**



5.4% 2.6% 11.3% 50.6% 14.9% 15.2% Single-family houses Multi-family houses Apartments Office buildings Retail buildings Others

### **Regional distribution of properties**



Source: vdp, NORD/LB Markets Strategy & Floor Research

## Mortgage

N	0	R	D	L	B
					_

# NORD/LB

**Public sector** 

## Münchener Hypothekenbank

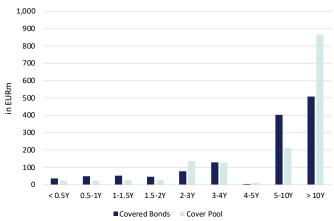
### Cover pool data

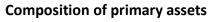
Cover pool (EURm)	1,457.0	Number of loans	248
of which substitution assets	0.0%	Number of borrowers	190
of which derivatives	0.0%	Share of 10 largest borrowers	88.2%
Covered bonds (EURm)	1,308.4	Avg. exposure to borrowers (EUR)	7,668,334
OC (EURm)	148.6	EUR share (Cover pool)	100.0%
OC	11.4%	EUR share (Covered bonds)	100.0%
Fixed interest (Cover pool)	91.0%	Largest FX position (NPV in EURm)	-
Fixed interest (Covered bonds)	92.0%	Share of largest exposure tranche	66.9% (> EUR 100m)
WAL (Cover pool)	11.7y	Loans in arrears (>90 days)	0.00%
WAL (Covered Bonds)	8.0y		

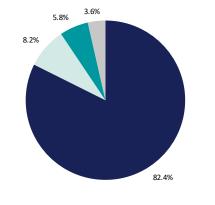
#### Development of cover pool data



#### Maturity structure

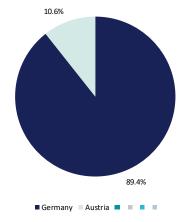






■ Regional authorities ■ Central government ■ Other public debtors ■ Local authorities

### Regional distribution of claims



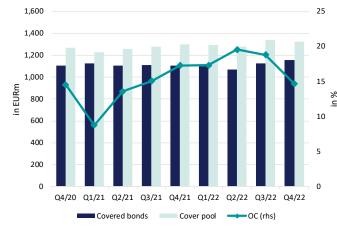
# M.M.Warburg & CO Hypothekenbank

### Cover pool data

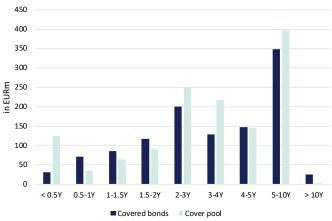
Cover pool (EURm)
of which residential
of which commercial
of which substitution assets
of which derivatives
Covered bonds (EURm)
OC (EURm)
OC
Fixed interest (Cover pool)
Fixed interest (Covered bonds)
WAL (Cover pool)
WAL (Covered Bonds)
Avg. LTV (Original value)
Avg. LTV (Market value)

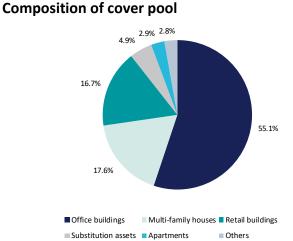
#### 1,326.1 Number of loans 311 21.4% Number of borrowers 178 73.7% Number of properties 340 Avg. exposure to borrowers (EUR) 7,084,775 4.9% 0.0% Share of 10 largest borrowers 24.1% 1,156.5 Share of owner-occupied dwellings 0.1% 169.6 Share of multi-familiy houses 17.6% 14.7% EUR share (Cover pool) 100.0% 94.7% EUR share (Covered bonds) 100.0% Largest FX position (NPV in EURm) 98.1% 3.9v Share of largest exposure tranche 50.6% (EUR 1-10m) Avg. seasoning 4.1y 6.1y 57.1% Loans in arrears (>90 days) 0.00% n/a

#### Development of cover pool data

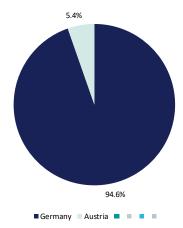


#### Maturity structure





### **Regional distribution of properties**



# Mortgage



# **NATIXIS Pfandbriefbank**

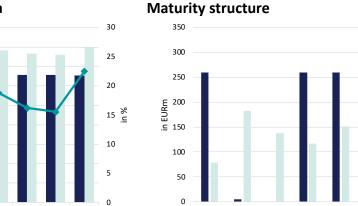
### Cover pool data

1,800

1.600

Cover pool (EURm)	1,600.3	Numl
of which residential	3.5%	Numl
of which commercial	81.2%	Numl
of which substitution assets	15.3%	Avg. e
of which derivatives	0.0%	Share
Covered bonds (EURm)	1,306.0	Share
OC (EURm)	294.3	Share
OC	22.5%	EUR s
Fixed interest (Cover pool)	45.7%	EUR s
Fixed interest (Covered bonds)	100.0%	Large
WAL (Cover pool)	3.3y	Share
WAL (Covered Bonds)	3.3y	Avg. s
Avg. LTV (Original value)	57.2%	Loans
Avg. LTV (Market value)	n/a	

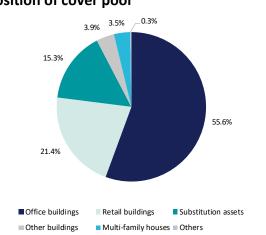
#### 4 600 0 • • ber of loans 81 ber of borrowers 98 ber of properties 256 exposure to borrowers (EUR) 13,824,388 e of 10 largest borrowers 21.5% e of owner-occupied dwellings 0.0% e of multi-familiy houses 3.5% share (Cover pool) 100.0% share (Covered bonds) 100.0% est FX position (NPV in EURm) re of largest exposure tranche 91.9% (> EUR 10m) seasoning 4.0y is in arrears (>90 days) 0.00%



< 0.5Y

0.5-1Y

# **Composition of cover pool**



### **Regional distribution of properties**

1-1.5Y

1.5-2Y

Covered bonds Cover pool

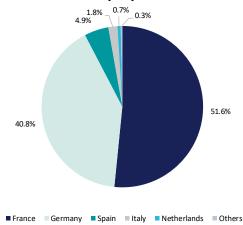
2-3Y

3-4Y

4-5Y

5-10Y

> 10Y



### Development of cover pool data

#### 1,400 1,200 1,000 in EURm 800 600 400 200 0 Q4/20 Q1/21 Q2/21 Q3/21 Q4/21 Q1/22 Q2/22 Q3/22 Q4/22 Covered bonds

# NORD/LB

Mortgage

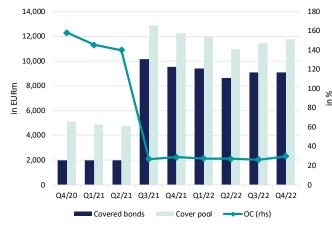
# Norddeutsche Landesbank

### Cover pool data

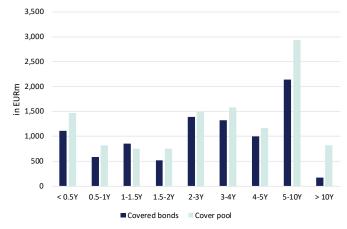
Cover pool (EURm)
of which residential
of which commercial
of which substitution assets
of which derivatives
Covered bonds (EURm)
OC (EURm)
OC
Fixed interest (Cover pool)
Fixed interest (Covered bonds)
WAL (Cover pool)
WAL (Covered Bonds)
Avg. LTV (Original value)
Avg. LTV (Market value)

#### 11,801.0 Number of loans n/a 38.5% Number of borrowers n/a 55.3% Number of properties n/a Avg. exposure to borrowers (EUR) 6.2% n/a 0.0% Share of 10 largest borrowers n/a 9,100.1 Share of owner-occupied dwellings n/a 2,700.9 Share of multi-familiy houses n/a 29.7% EUR share (Cover pool) n/a 81.2% EUR share (Covered bonds) n/a Largest FX position (NPV in EURm) GBP (390.0) 97.7% n/a Share of largest exposure tranche 57.8% (> EUR 10m) n/a Avg. seasoning 6.3y 60.0% Loans in arrears (>90 days) 0.00% n/a

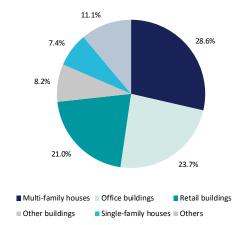
#### Development of cover pool data



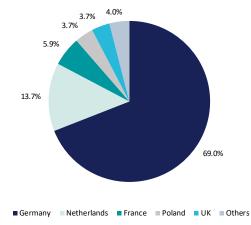
#### **Maturity structure**



#### **Composition of cover pool**



### Regional distribution of properties



# Mortgage

NORD/LB

# NORD/LB

### Norddeutsche Landesbank

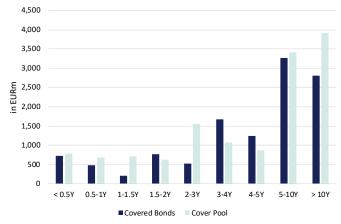
#### Cover pool data

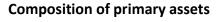
Cover pool (EURm)	13,626.8	Number of loans	3,875
of which substitution assets	2.4%	Number of borrowers	1,395
of which derivatives	0.0%	Share of 10 largest borrowers	22.8%
Covered bonds (EURm)	11,696.3	Avg. exposure to borrowers (EUR)	9,537,921
OC (EURm)	1,930.5	EUR share (Cover pool)	96.7%
OC	16.5%	EUR share (Covered bonds)	99.5%
Fixed interest (Cover pool)	87.8%	Largest FX position (NPV in EURm)	USD (203.2)
Fixed interest (Covered bonds)	97.5%	Share of largest exposure tranche	41.0% (EUR 10-100m)
WAL (Cover pool)	7.5y	Loans in arrears (>90 days)	0.06%
WAL (Covered Bonds)	6.8y		

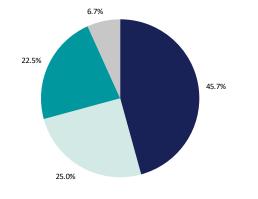
#### Development of cover pool data



#### Maturity structure

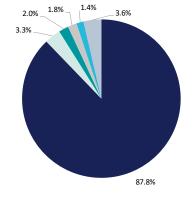






■ Local authorities ■ Regional authorities ■ Other public debtors ■ Central government

### **Regional distribution of claims**



Germany Austria France Belgium USA Others

Source: vdp, NORD/LB Markets Strategy & Floor Research

# **Public sector**

# **Oldenburgische Landesbank**

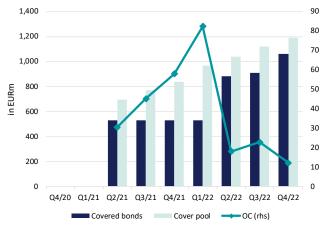
### Cover pool data

Cover pool (EURm)	1,190.1	Number of loans	n/a
of which residential	89.6%	Number of borrowers	n/a
of which commercial	2.0%	Number of properties	n/a
of which substitution assets	8.4%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	1,061.0	Share of owner-occupied dwellings	n/a
OC (EURm)	129.1	Share of multi-familiy houses	n/a
OC	12.2%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	91.6%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	94.7% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	4.4y
Avg. LTV (Original value)	56.0%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

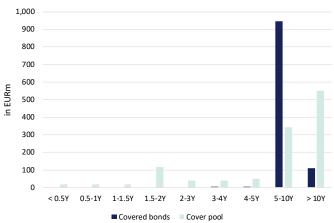
2

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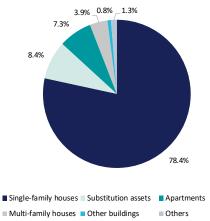
### Development of cover pool data



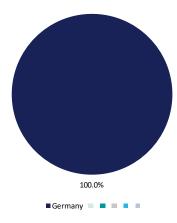
### **Maturity structure**



### **Composition of cover pool**



### **Regional distribution of properties**



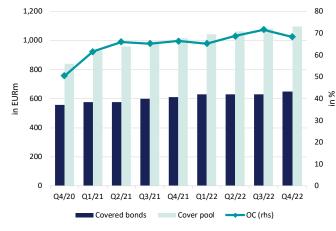
## Mortgage

### **PSD Bank Nürnberg**

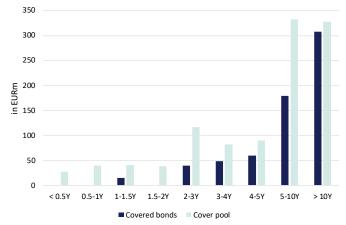
#### Cover pool data

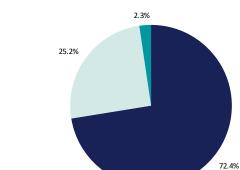
Cover pool (EURm)	1,095.9	Number of loans	11,110
of which residential	97.7%	Number of borrowers	8,924
of which commercial	0.0%	Number of properties	10,270
of which substitution assets	2.3%	Avg. exposure to borrowers (EUR)	119,944
of which derivatives	0.0%	Share of 10 largest borrowers	0.4%
Covered bonds (EURm)	650.6	Share of owner-occupied dwellings	85.2%
OC (EURm)	445.3	Share of multi-familiy houses	0.0%
OC	68.4%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	7.3y	Share of largest exposure tranche	99.1% (< EUR 0.3m)
WAL (Covered Bonds)	10.8y	Avg. seasoning	5.1y
Avg. LTV (Original value)	50.7%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data



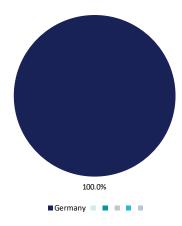
#### **Maturity structure**





#### **Composition of cover pool**

### Regional distribution of properties



## Mortgage



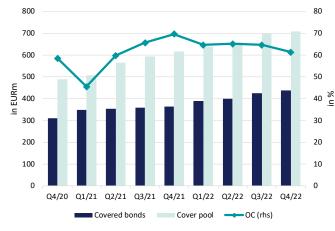
Single-family houses Apartments Substitution assets

### **PSD Bank Rhein-Ruhr**

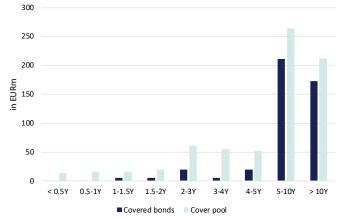
#### Cover pool data

08.6	Number of loans	7,287
7.2%	Number of borrowers	5,779
0.0%	Number of properties	6,078
2.8%	Avg. exposure to borrowers (EUR)	119,240
0.0%	Share of 10 largest borrowers	1.0%
39.0	Share of owner-occupied dwellings	88.6%
269.6	Share of multi-familiy houses	6.1%
1.4%	EUR share (Cover pool)	100.0%
0.0%	EUR share (Covered bonds)	100.0%
0.0%	Largest FX position (NPV in EURm)	-
7.8y	Share of largest exposure tranche	93.1% (< EUR 0.3m)
8.8y	Avg. seasoning	4.8y
0.9%	Loans in arrears (>90 days)	0.00%
n/a		
	7.2% 0.0% 2.8% 0.0% 39.0 (69.6 1.4% 0.0% 7.8y 8.8y 0.9%	<ul> <li>7.2% Number of borrowers</li> <li>0.0% Number of properties</li> <li>2.8% Avg. exposure to borrowers (EUR)</li> <li>0.0% Share of 10 largest borrowers</li> <li>39.0 Share of owner-occupied dwellings</li> <li>69.6 Share of multi-familiy houses</li> <li>1.4% EUR share (Cover pool)</li> <li>0.0% EUR share (Covered bonds)</li> <li>0.0% Largest FX position (NPV in EURm)</li> <li>7.8y Share of largest exposure tranche</li> <li>8.8y Avg. seasoning</li> <li>0.9% Loans in arrears (&gt;90 days)</li> </ul>

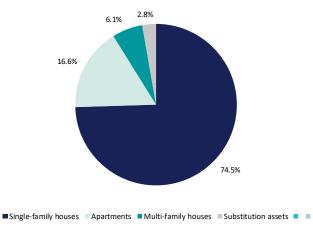
#### Development of cover pool data



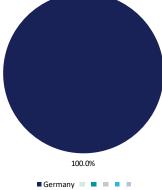
#### **Maturity structure**



#### **Composition of cover pool**



**Regional distribution of properties** 



# Mortgage



### SaarLB

### Cover pool data

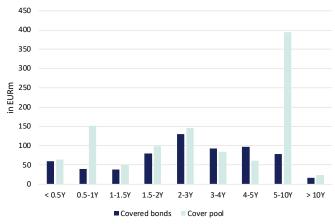
Cover pool (EURm)	1,069.6	Number of loans	n/a
of which residential	1.8%	Number of borrowers	n/a
of which commercial	94.4%	Number of properties	n/a
of which substitution assets	3.8%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	631.3	Share of owner-occupied dwellings	n/a
OC (EURm)	438.3	Share of multi-familiy houses	n/a
OC	69.4%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	80.7%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	98.4%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	58.1% (> EUR 10m)
WAL (Covered Bonds)	n/a	Avg. seasoning	5.1y
Avg. LTV (Original value)	52.2%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

#### Development of cover pool data

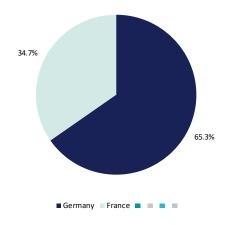


# Composition of cover pool 3.8% 1.2% 0.6% 27.8% 0.6% 37.8% 28.9% Office buildings Other buildings Substitution assets Apartments Others

#### Maturity structure



### **Regional distribution of properties**



### Mortgage

### SaarLB

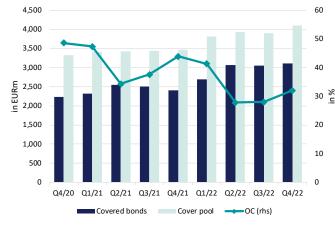
#### Cover pool data

- Cover pool (EURm) of which substitution assets
- of which derivatives
- Covered bonds (EURm)
- OC (EURm)
- OC
- Fixed interest (Cover pool)

Fixed interest (Covered bonds)

WAL (Cover pool) WAL (Covered Bonds)

### Development of cover pool data



#### Maturity structure

4,099.6

3,104.7

0.0%

0.0%

994.9

32.0%

75.9%

98.4%

n/a

n/a

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

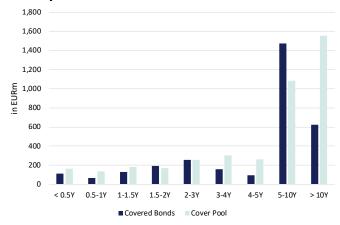
Loans in arrears (>90 days)

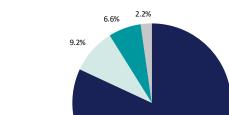
Share of 10 largest borrowers

Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche



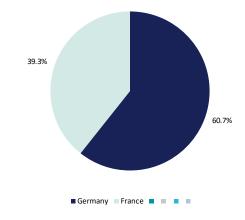


### **Composition of primary assets**

■ Local authorities ■ Other public debtors ■ Regional authorities ■ Central government

81.9%

### Regional distribution of claims



Source: vdp, NORD/LB Markets Strategy & Floor Research

# **Public sector**

63.0% (EUR 10-100m)

n/a

n/a

n/a

n/a

n/a

n/a

0.00%

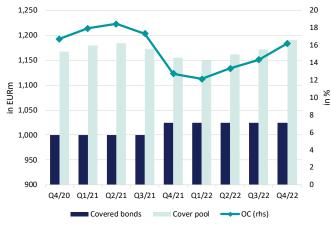


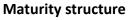
## Santander Consumer Bank

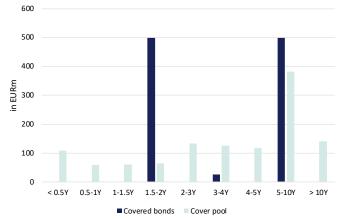
### Cover pool data

Cover pool (EURm)	1,191.3	Number of loans	18,716
of which residential	95.7%	Number of borrowers	23,208
of which commercial	0.0%	Number of properties	13,892
of which substitution assets	0.0%	Avg. exposure to borrowers (EUR)	49,124
of which derivatives	0.0%	Share of 10 largest borrowers	0.4%
Covered bonds (EURm)	1,025.0	Share of owner-occupied dwellings	83.2%
OC (EURm)	166.3	Share of multi-familiy houses	2.1%
OC	16.2%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	5.1y	Share of largest exposure tranche	96.1% (< EUR 0.3m)
WAL (Covered Bonds)	4.5y	Avg. seasoning	6.9y
Avg. LTV (Original value)	45.2%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

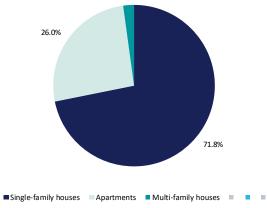
### Development of cover pool data



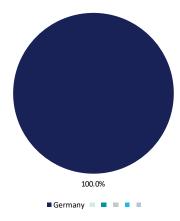








### **Regional distribution of properties**



Source: vdp, NORD/LB Markets Strategy & Floor Research

# Mortgage

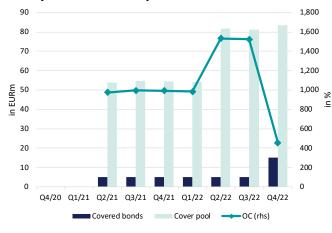


### Sparda-Bank Südwest

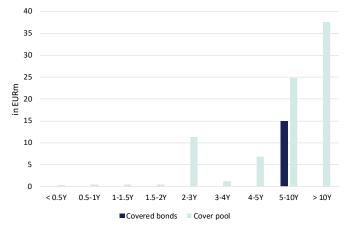
### Cover pool data

Cover pool (EURm)	83.4	Number of loans	n/a
of which residential	88.0%	Number of borrowers	n/a
of which commercial	0.0%	Number of properties	n/a
of which substitution assets	12.0%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	15.0	Share of owner-occupied dwellings	n/a
OC (EURm)	68.4	Share of multi-familiy houses	n/a
OC	456.0%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	100.0%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	82.6% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	3.8y
Avg. LTV (Original value)	57.7%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

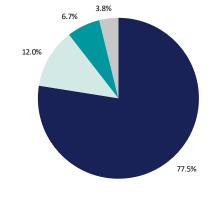
#### Development of cover pool data



#### **Maturity structure**

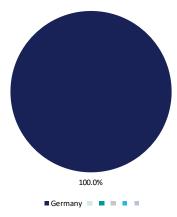


**Composition of cover pool** 



Single-family houses Substitution assets Apartments Multi-family houses

### **Regional distribution of properties**



### Mortgage

NORD/LB

### **Sparkasse Hannover**

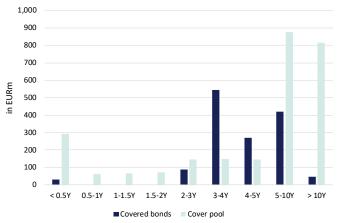
#### Cover pool data

Cover pool (EURm)	2,617.5	Number of loans	n/a
of which residential	77.3%	Number of borrowers	n/a
of which commercial	18.6%	Number of properties	n/a
of which substitution assets	4.1%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	1,397.6	Share of owner-occupied dwellings	n/a
OC (EURm)	1,219.9	Share of multi-familiy houses	n/a
OC	87.3%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	89.1%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	61.4% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	4.7y
Avg. LTV (Original value)	56.1%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

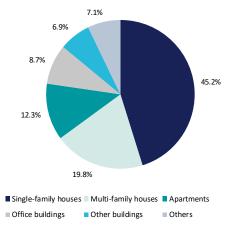
#### Development of cover pool data



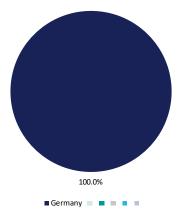
#### **Maturity structure**



### **Composition of cover pool**



### **Regional distribution of properties**



### Mortgage

NORD/LB

## Sparkasse Hannover

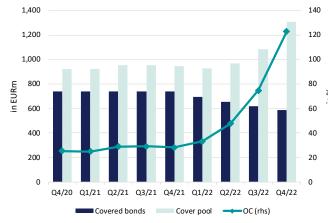
#### Cover pool data

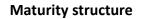
- Cover pool (EURm)
- of which substitution assets of which derivatives
- Covered bonds (EURm)
- OC (EURm)
- °, oc
- Fixed interest (Cover pool)

Fixed interest (Covered bonds)

- WAL (Cover pool)
- WAL (Covered Bonds)

#### Development of cover pool data





1,306.0

0.0%

0.0%

586.1

719.9

122.8%

94.1%

n/a

n/a

100.0%

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

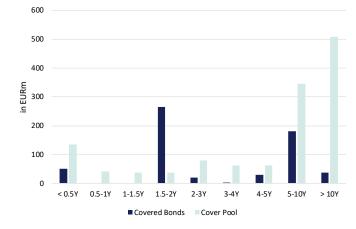
Loans in arrears (>90 days)

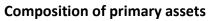
Share of 10 largest borrowers

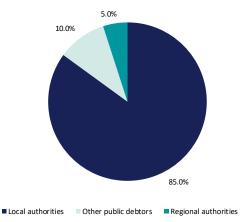
Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

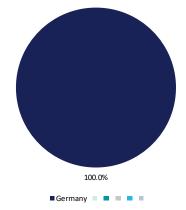






Source: vdp, NORD/LB Markets Strategy & Floor Research

### **Regional distribution of claims**



### **Public sector**

40.1% (EUR 10-100m)

n/a

n/a

n/a

n/a

n/a

n/a

0.00%

### Sparkasse KölnBonn

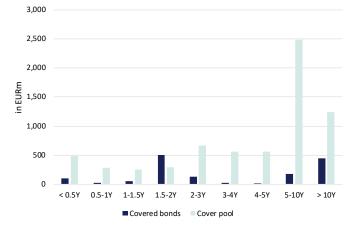
#### Cover pool data

Cover pool (EURm)	6,812.0	Number of loans	n/a
of which residential	78.8%	Number of borrowers	n/a
of which commercial	20.1%	Number of properties	n/a
of which substitution assets	1.1%	Avg. exposure to borrowers (EUR)	n/a
of which derivatives	0.0%	Share of 10 largest borrowers	n/a
Covered bonds (EURm)	1,438.2	Share of owner-occupied dwellings	n/a
OC (EURm)	5,373.8	Share of multi-familiy houses	n/a
OC	373.6%	EUR share (Cover pool)	n/a
Fixed interest (Cover pool)	92.2%	EUR share (Covered bonds)	n/a
Fixed interest (Covered bonds)	100.0%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	n/a	Share of largest exposure tranche	48.2% (< EUR 0.3m)
WAL (Covered Bonds)	n/a	Avg. seasoning	5.8y
Avg. LTV (Original value)	53.1%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

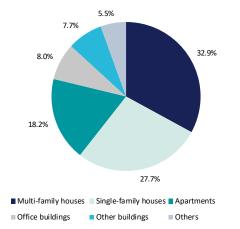
#### Development of cover pool data



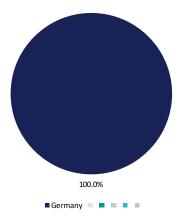
#### **Maturity structure**



### **Composition of cover pool**



### **Regional distribution of properties**







## Sparkasse KölnBonn

#### Cover pool data

- Cover pool (EURm)
- of which substitution assets
- of which derivatives Covered bonds (EURm)
- OC (EURm)

OC

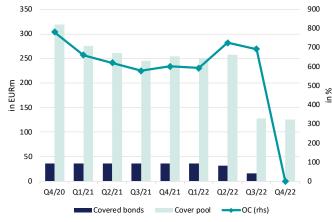
Fixed interest (Cover pool)

Fixed interest (Covered bonds)

WAL (Cover pool)

WAL (Covered Bonds)

#### Development of cover pool data



#### **Maturity structure**

**Regional distribution of claims** 

125.7

0.0%

0.0%

125.7

0.0%

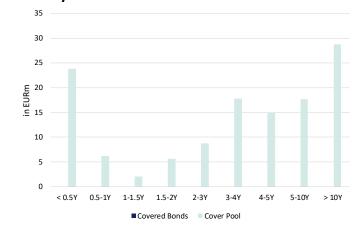
0.0%

0.0%

n/a

n/a

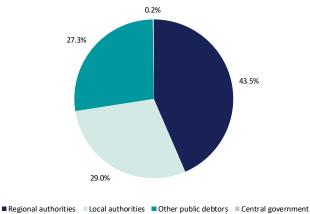
0.0



100.0%

Germany

### **Composition of primary assets**



#### Source: vdp, NORD/LB Markets Strategy & Floor Research

# **Public sector**

Number of loans	n/a
Number of borrowers	n/a
Share of 10 largest borrowers	n/a
Avg. exposure to borrowers (EUR)	n/a
EUR share (Cover pool)	n/a
EUR share (Covered bonds)	n/a
Largest FX position (NPV in EURm)	-
Share of largest exposure tranche	61.9% (EUR 10-100m)
Loans in arrears (>90 days)	0.00%

# Stadtsparkasse Düsseldorf

### Cover pool data

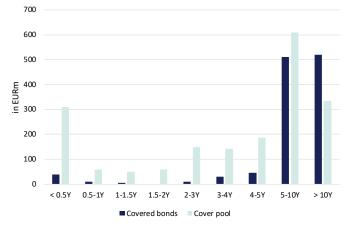
Cover pool (EURm)	1,900
of which residential	71.0
of which commercial	23.8
of which substitution assets	0.0
of which derivatives	0.0
Covered bonds (EURm)	1,171
OC (EURm)	729
OC	62.2
Fixed interest (Cover pool)	88.7
Fixed interest (Covered bonds)	100.0
WAL (Cover pool)	n
WAL (Covered Bonds)	n
Avg. LTV (Original value)	55.4
Avg. LTV (Market value)	n

#### .900.4 Number of loans n/a 0% Number of borrowers n/a 8% Number of properties n/a Avg. exposure to borrowers (EUR) .0% n/a .0% Share of 10 largest borrowers n/a 1.3 Share of owner-occupied dwellings n/a 29.1 Share of multi-familiy houses n/a EUR share (Cover pool) .2% n/a 7% EUR share (Covered bonds) n/a Largest FX position (NPV in EURm) .0% n/a Share of largest exposure tranche 44.4% (< EUR 0.3m) Avg. seasoning n/a 7.2y 4% Loans in arrears (>90 days) 0.00% n/a

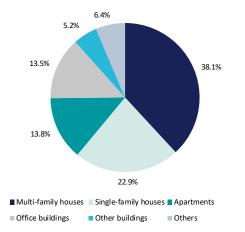
#### Development of cover pool data



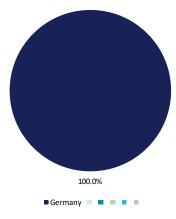
#### Maturity structure



#### Composition of cover pool



# Regional distribution of properties



# Mortgage

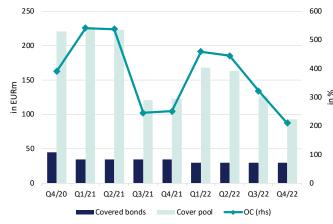
NORD/LB

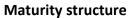
# Stadtsparkasse Düsseldorf

### Cover pool data

- Cover pool (EURm) of which substitution assets
- of which derivatives
- Covered bonds (EURm)
- OC (EURm)
- OC
- Fixed interest (Cover pool)
- Fixed interest (Covered bonds)
- WAL (Cover pool)
- WAL (Covered Bonds)

#### Development of cover pool data





93.2

0.0%

0.0%

30.0

63.2

210.5%

89.3%

n/a

n/a

100.0%

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

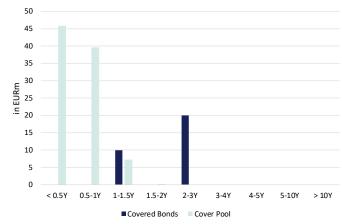
Loans in arrears (>90 days)

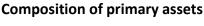
Share of 10 largest borrowers

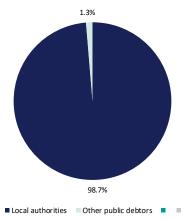
Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

Share of largest exposure tranche

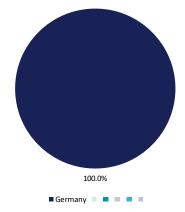






Source: vdp, NORD/LB Markets Strategy & Floor Research

### **Regional distribution of claims**



## **Public sector**

52.6% (< EUR 10m)

n/a

n/a

n/a

n/a

n/a

n/a

0.00%

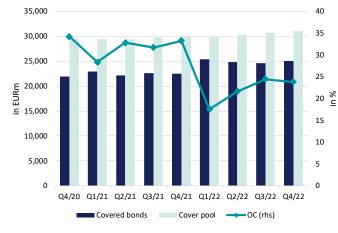
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### **UniCredit Bank**

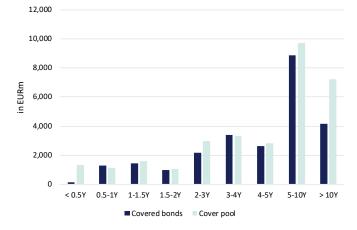
### Cover pool data

Cover pool (EURm)	31,111.6	Number of loans	134,520
of which residential	69.6%	Number of borrowers	103,266
of which commercial	28.6%	Number of properties	126,091
of which substitution assets	1.8%	Avg. exposure to borrowers (EUR)	295,881
of which derivatives	0.0%	Share of 10 largest borrowers	8.0%
Covered bonds (EURm)	25,116.7	Share of owner-occupied dwellings	34.4%
OC (EURm)	5,994.9	Share of multi-familiy houses	23.9%
OC	23.9%	EUR share (Cover pool)	100.0%
Fixed interest (Cover pool)	82.5%	EUR share (Covered bonds)	100.0%
Fixed interest (Covered bonds)	99.1%	Largest FX position (NPV in EURm)	-
WAL (Cover pool)	6.9y	Share of largest exposure tranche	34.7% (< EUR 0.3m)
WAL (Covered Bonds)	6.2y	Avg. seasoning	6.8y
Avg. LTV (Original value)	42.3%	Loans in arrears (>90 days)	0.00%
Avg. LTV (Market value)	n/a		

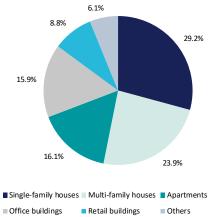
#### Development of cover pool data



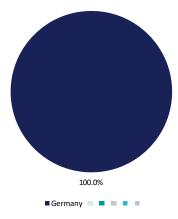
#### **Maturity structure**



#### **Composition of cover pool**



### **Regional distribution of properties**



### Mortgage

# **UniCredit Bank**

### Cover pool data

- Cover pool (EURm)
- of which substitution assets
- of which derivatives
- Covered bonds (EURm) OC (EURm)

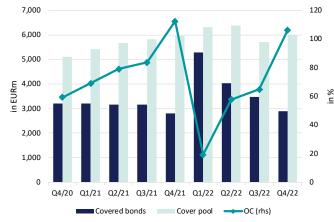
OC

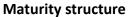
Fixed interest (Cover pool)

Fixed interest (Covered bonds)

WAL (Cover pool) WAL (Covered Bonds)

#### Development of cover pool data





5,970.3

2,894.3

3,076.0

106.3%

73.9%

99.8%

6.7y

4.8y

0.0%

0.0%

Number of loans

Number of borrowers

EUR share (Cover pool)

EUR share (Covered bonds)

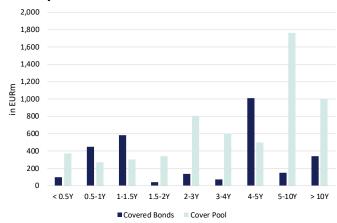
Loans in arrears (>90 days)

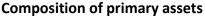
Share of 10 largest borrowers

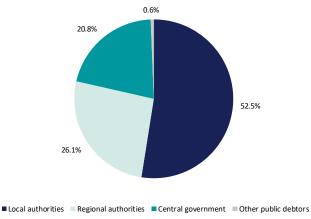
Avg. exposure to borrowers (EUR)

Largest FX position (NPV in EURm)

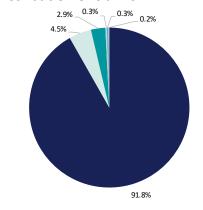
Share of largest exposure tranche







### **Regional distribution of claims**



Germany France UK Austria Switzerland Others

Source: vdp, NORD/LB Markets Strategy & Floor Research

## **Public sector**

1,526

41.8%

96.5%

0.00%

100.0%

7,416,522

USD (190.3)

54.8% (> EUR 100m)

805

## Wüstenrot Bausparkasse

#### Cover pool data .....

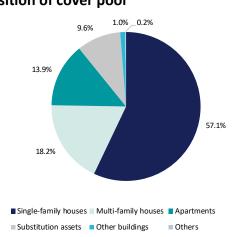
Cover pool (EURm)	3,241.5
of which residential	89.2%
of which commercial	1.2%
of which substitution assets	9.6%
of which derivatives	0.0%
Covered bonds (EURm)	2,826.6
OC (EURm)	414.9
OC	14.7%
Fixed interest (Cover pool)	99.4%
Fixed interest (Covered bonds)	89.7%
WAL (Cover pool)	5.7y
WAL (Covered Bonds)	4.8y
Avg. LTV (Original value)	48.2%
Avg. LTV (Market value)	n/a

#### Number of loans 32,878 Number of borrowers 29,103 Number of properties 30,713 Avg. exposure to borrowers (EUR) 100,730 Share of 10 largest borrowers 6.0% Share of owner-occupied dwellings 65.5% Share of multi-familiy houses 18.2% EUR share (Cover pool) 100.0% EUR share (Covered bonds) 100.0% Largest FX position (NPV in EURm) Share of largest exposure tranche 75.8% (< EUR 0.3m) Avg. seasoning 8.7y Loans in arrears (>90 days) 0.01%

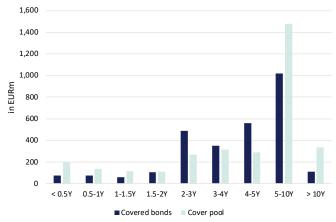
#### Development of cover pool data



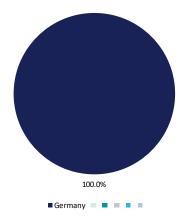
### **Composition of cover pool**



#### **Maturity structure**



### **Regional distribution of properties**



# Mortgage



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Sales		Trading	
Institutional Sales	+49 511 9818-9440	Covereds/SSA	+49 511 9818-8040
Sales Sparkassen & Regionalbanken	+49 511 9818-9400	Financials	+49 511 9818-9490
Sales MM/FX	+49 511 9818-9460	Governments	+49 511 9818-9660
Sales Europe	+352 452211-515	Länder/Regionen	+49 511 9818-9550
		Frequent Issuers	+49 511 9818-9640
Origination & Syndicate		Sales Wholesale Customers	
Origination FI	+49 511 9818-6600	Firmenkunden	+49 511 361-4003
Origination Corporates	+49 511 361-2911	Asset Finance	+49 511 361-8150

Treasury	asury		Relationship Management	
Collat. Management/Repos	+49 511 9818-9200	Institutionelle Kunden	<u>rm-vs@nordlb.de</u>	
Liquidity Management	+49 511 9818-9620 +49 511 9818-9650	Öffentliche Kunden	<u>rm-oek@nordlb.de</u>	

# NORD/LB

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