

Merry Xmas and Happy New Year!  
Many thanks to our loyal readers

Our next weekly publication  
will be released on **11 January 2023**



## Covered Bond & SSA View

NORD/LB Markets Strategy & Floor Research

14 December 2022 ♦ 39/2022

Marketing communication (see disclaimer on the last pages)

# Agenda

<b>Market overview</b>	
<b>Covered Bonds</b>	<b>3</b>
<b>SSA/Public Issuers</b>	<b>6</b>
<b>Our view of the covered bond market heading into 2023</b>	<b>9</b>
<b>SSA outlook 2023: ECB, NGEU and the debt brake in Germany</b>	<b>17</b>
<b>ECB tracker</b>	
<b>Asset Purchase Programme (APP)</b>	<b>25</b>
<b>Pandemic Emergency Purchase Programme (PEPP)</b>	<b>30</b>
<b>Aggregated purchase activity under APP and PEPP</b>	<b>33</b>
<b>Charts &amp; Figures</b>	
<b>Covered Bonds</b>	<b>34</b>
<b>SSA/Public Issuers</b>	<b>40</b>
<b>Overview of latest Covered Bond &amp; SSA View editions</b>	<b>43</b>
<b>Publication overview</b>	<b>44</b>
<b>Contacts at NORD/LB</b>	<b>45</b>

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## Market overview

### Covered Bonds

Author: Stefan Rahaus

#### Primary market: pre-Christmas lull

Issuers now seem to have concluded their funding activities for 2022, with no new covered bond primary market appearances appearing on our radar since the last edition of our weekly publication. Therefore, it would appear that the EUR 200bn barrier in EUR benchmark issuances will not be broken this year, with the total volume of new issuances in 2022 now coming to EUR 198.625bn overall. In this present edition of our weekly publication, we shall use the pre-Christmas lull on the primary market as an opportunity, together with you, to look ahead to 2023 with a preview of the covered bond market in the coming year. To this end, we have summarised the outlooks issued by the three major rating agencies (S&P, Fitch and Moody's) in separate paragraphs on the following pages and go into greater detail regarding our assessments and expectations for the covered bond market next year in the article entitled "[Our view of the covered bond market heading into 2023](#)". At this point, we would like to extend our sincere thanks to all our readers for the interest you have shown in our publications. We hope that these will continue to provide helpful added value to support you in your day-to-day work next year as well. We are open to any suggestions or feedback, and would also be happy to assist with any queries you may have. As this year draws to a close, we would also like to take this opportunity to wish you and your families a relaxing and peaceful Christmas as well as a healthy and successful new year in 2023.

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
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Source: Bloomberg, NORD/LB Markets Strategy & Floor Research, (Rating: Fitch / Moody's / S&P)

#### Secondary market: things are quieter here as well

With the apparent closure of the primary market, the secondary market has also become calmer. Trading activities are focused on the shorter end of up to five years, with customer enquiries and turnover largely restricted to covered bonds with residual terms to maturity of between six months and two years. Liquidity has decreased significantly in the case of longer maturities. Here, we are also seeing occasional selling interest on the part of investors, which is likely to create room for issuers who will seek to test the waters at the long end in the new year. The secondary market spreads of the indicative prices shown against swap are almost unchanged compared with the previous week. However, just how resilient this level is will not become clear until the flood of new issues that we expect to see in the first few weeks of January eventually arrives. The ECB may opt to significantly scale back its interventions on the secondary market in 2023 due to potential quantitative tightening measures. Since fewer covered bonds are "parked" at the ECB, also due to early repayments of TLTRO III funds (see following paragraph), we are hoping for a significant improvement in liquidity over the course of the coming year, even if many of the covered bonds deposited with the ECB are retained bonds. However, we believe it will be a lengthy process as we expect the ECB Governing Council to announce a very cautious exit from its monetary support measures following its meeting on Thursday.

**ECB monetary policy: TLTRO III repayments amount to EUR 447.5bn in December**

In the previous trading week, the Eurosystem announced the volume of repayments linked to TLTRO III funding that commercial banks in the single currency area plan to undertake. This is the second voluntary repayment date since the conditions for refinancing operations were adjusted. Although the first additional voluntary repayment date was in November, the repayment date in December had been fixed in diaries for much longer. Moreover, the series of interest rate hikes that commenced earlier this year made this date more important, also for the covered bond market. At EUR 447.5bn, the repayment volume was well in excess of the value recorded for November (EUR 296.3bn). As expected, the ECB's balance sheet therefore continues to shrink. These voluntary repayments come as no surprise to us. As such, we have identified a positive (albeit modest) impact in connection with this development as part of our supply forecast (cf. [Covered Bonds focus article](#) in this edition of our weekly publication). In particular, our forecast with regard to spread developments also foresees an announcement by the ECB about quantitative tightening (QT), as we also highlighted in our preview of the ECB meeting on 15 December (cf. [NORD/LB Covered Bond & SSA View on 07 December](#)).

**S&P Covered Bond Outlook 2023: rating outlook - stable**

In its Covered Bond Outlook 2023 published on 6 December 2022, the analysts from S&P continue to evaluate the covered bond rating environment as stable. Sufficient overcollateralisation should help to counteract any potential losses arising on account of the rising cost of living and interest rate hikes. Unused notches reduce the risk of downgrades of covered bonds in the event of limited rating downgrades by the issuing banks. In fundamental terms, the familiar risks will rear their heads in the first half of 2023 (flattening economic growth, rising interest rates, persistent inflation), but a robust labour market and public investments should lead to a moderate recovery from mid-2023 onwards. In the housing construction segment, massive increases in mortgage interest rates and lower disposable income are weighing on real estate prices, while private savings and low unemployment are supporting the asset quality of housing construction loans in the cover pools. In the area of commercial real estate, S&P experts see the office and retail sub-sectors as more at risk, but assume that a deterioration in asset quality will not adversely impact the credit quality of the rated debt securities to a significant extent. In the case of new issues, the rating specialists at S&P expect a volume slightly below the level seen in 2022 on account of maturities being down by just over 10 percent in comparison with the current year. Lower customer deposits in relation to credit volume and declining central bank financing will support fresh supply. In terms of Credit Enhancement (CE) at S&P, the average uplift is more than nine times the level needed to maintain current ratings and should cushion the expected deterioration in collateral quality. The ratings of around 74% of covered bond programmes rated by S&P would be unaffected by a one-notch downgrade applied to both the sovereign and issuer rating.

**Fitch Covered Bond Outlook 2023: sector outlook - neutral**

The rating experts at Fitch assess the sector outlook for covered bonds as neutral. In their Global Covered Bonds Outlook 2023 report, the Fitch analysts are sticking with their previous assessment for the development of the assets despite the deterioration in the outlook. Their reasoning, in particular, is based on the dual recourse of covered bonds, liquidity protection mechanisms, extensive overcollateralisation (OC) and legal requirements for the suitability of assets. More prudent lending and lower mortgage LTVs should also limit asset deterioration. In addition, due to regulatory requirements, credit institutions have built up strong capital and liquidity buffers in recent years, which will help to cushion the impacts of a recession in 2023. Most covered bonds are rated far higher than their respective issuer default rating (IDR) on account of aspects including regulatory monitoring, preferential status in a liquidation scenario and the capacity for continuing payments even after issuer default. In total, 87% of rated programmes have one or more notches buffer against an IDR downgrade, with 96% of issuers either having IDRs with a stable or positive outlook, or which have been designated “rating watch positive”. In the event of changes to sovereign ratings, Fitch also assumes that the impact on the valuation of covered bonds will be limited. The rating specialists at Fitch see the high level of overcollateralisation (OC) as a buffer against falling house prices and increasing arrears due to the higher cost of living. Fitch expects that house prices will fall in 2023 across practically all jurisdictions.

**Moody's Covered Bond Outlook 2023: issuance volume to remain high**

Analysts from the rating agency Moody's expect the issuance volume on the covered bond market to remain high in 2023. Pending maturities, central bank funding repayments and wide spreads to senior bank debt will support the fresh supply, although a decline in mortgage funding and high deposit levels will to some extent act as restricting factors in this context. Like us, the experts at Moody's assume that maturing or early repayments of TLTRO loans will be replaced, at least in part, by new publicly issued covered bonds. Moody's estimates that banks have used up to EUR 200bn in TLTRO drawings to refinance covered bonds maturing in 2020 and 2021, particularly from southern European issuers. The amount of TLTRO loans that will be repaid from proceeds of newly issued covered bonds or have already been pre-funded in 2022 is difficult to estimate, although Moody's does take the view that TLTRO repayments will certainly serve to increase the issuance volume in 2023. In line with both S&P and Fitch, the rating specialists at Moody's also believe that falling house prices and rising loan default rates will compromise asset quality due to increased financial burdens on borrowers. However, the risks are limited by high levels of OC and low LTV ratios. In addition, the stability of issuers and sovereigns will again underline the continued high credit quality of covered bonds in 2023, with Moody's offering stable/positive rating outlooks for 90% of the covered bond issuers that it evaluates.

## Market overview

### SSA/Public Issuers

Authors: Jan-Phillipp Hensing // Dr Norman Rudschuck, CIIA

#### Outlook 2023

In today's year-end edition of our weekly publication, we present our [SSA Outlook for 2023](#). This includes, among other aspects, the ECB's future policy approach and the potential issuance volumes from the German Laender, key E-supras and large (inter)national agencies. In 2023, the topic of quantitative tightening, i.e. the imminent end of full reinvestments within the framework of the APP purchase programme, will play a major role in particular. We should hopefully learn more tomorrow at the ECB press conference.

#### PEPP: first line of defence remains inactive

A week ago, the latest figures on PEPP reinvestments were published. PEPP reinvestments are made flexibly to “counter pandemic-related risks to the monetary policy transmission mechanism”. While in June/July there was still an increase in net purchases in peripheral countries, this has not been the case since then. On the contrary, holdings in the respective states (exception: Greece) have even decreased in the past two months. Meanwhile, more was invested in German and Dutch securities than matured. In case you are wondering at this point why we are taking such a close look at the respective holding changes: Since July, the ECB has had a new tool at its disposal, the TPI. This can be activated to address unjustified, disorderly market developments. If activated, the Eurosystem could, for example, buy securities from individual countries in order to combat a deterioration in financing conditions - which cannot be justified from a fundamental perspective. The yield gap between Italian government bonds and German bonds is therefore always of particular interest. While the spread (10y) was in a corridor of 185 to 240 basis points in June and July, it has been between 180 and 250 basis points in the past two months, and has even been falling since October. We are firmly convinced that the TPI will never be activated, as the PEPP reinvestments will provide enough supporting influence. This is also supported by the most recent data, as no significant holding changes were made vis-à-vis the periphery.

#### Public Sector net purchases under the PEPP in selected jurisdictions (EURm)

Country	Net purchases Aug 22 – Sep 22	Net purchases Oct 22 – Nov 22	Cumulative net purchases at end-November 22
Germany	-3,060	2,551	397,704
Netherlands	128	1,689	84,558
<b>Total</b>	<b>-2,932</b>	<b>+4,240</b>	<b>482,262</b>
Spain	-200	-1,418	194,758
Italy	-1,243	-794	287,027
Greece	-888	729	39,607
Portugal	177	-1,068	34,425
<b>Total</b>	<b>-2,154</b>	<b>-2,551</b>	<b>555,817</b>
Suprationals	2	0	145,914

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

**26th Meeting of the Stability Council scheduled for 16 December**

The Federal Minister of Finance, Christian Lindner, and the Chair of the Conference of Finance Ministers, Doris Ahnen from Rhineland-Palatinate, have convened the 26th meeting of the Stability Council this Friday in Berlin. On the agenda are monitoring compliance with the structural general government deficit ceilings and the debt brake, budgetary surveillance and reviewing impending budgetary emergencies. To recap, it emerged from the press release of the 25th meeting that the Stability Council expects the European ceiling for the structural general government deficit to be exceeded for the years 2022 to 2025. This is permissible in 2022 because the escape clause of the European Stability and Growth Pact remains activated. In the years 2023 to 2026, the structural deficit in the government finances is to be gradually reduced until the medium-term budget target is reached. The Stability Council is also of the opinion that exceeding the structural general government deficit ceiling based on the European Commission's budgetary guidelines until 2025 is also permissible. You can expect a summary of the meeting as part of this publication in mid-January.

**Overview of rating changes**

As 2022 comes to a close, we have a few more rating changes to report on. The rating agency S&P has revised its outlook for France from “stable” to “negative”. This also has a direct impact on our coverage, as the rating for many public issuers from the French jurisdiction is equated with that of France. This specifically applies to (Bloomberg ticker): AG-FRNC, CADES, CDCEPS, SAGESS and SFILFR. Also directly affected is the supranational issuer EFSF, whose outlook has also changed from “stable” to “negative”. Meanwhile, Fitch has revised its outlook for our “Beyond Bundeslaender” issuer MADRID from “stable” to “positive”. At this point we would like to do some advertising on our own behalf. In 2023, you can expect new publications as part of our familiar “Beyond Bundeslaender” series.

**KfW: first digital transaction based on the German Electronic Securities Act**

A few weeks ago we already reported on the digital transaction of the European Investment Bank (ticker: EIB). It is therefore all the more gratifying that digitalisation is progressing further in the German bond market and that KfW (ticker: KFW) is a new issuer entering the digital stage. The issue was executed by Clearstream on Deutsche Börse's digital post-trading platform “D7”. The bond has a volume of EUR 20m with a two-year maturity and a coupon of 2.381%. By digitalising the issue via the D7 platform, KfW was able to shorten the issuance process, which often takes several days, to just a few minutes. In addition to the time savings, the manual effort and processing costs could also be reduced. The digital transaction was made possible by the promulgation of the German Electronic Securities Act (eWpG). This gives issuers of bearer bonds the right to choose whether to issue the security by means of a traditional document or electronically. Moreover, instead of the issuer presenting a physical certificate, an entry is made in an electronic securities register.

**ECB: organisational details**

As in previous years, the Eurosystem will temporarily pause APP and PEPP purchases (always referring to reinvestment, not net purchases) towards the end of the year in anticipation of significantly reduced market liquidity. The last trading day before Christmas will be 20 December. Purchases will then resume on 2 January 2023. The Eurosystem's securities lending facilities will continue to be available on all business days in December. To ensure consistency with the publication of the Eurosystem weekly statement (including quarterly revaluation adjustments), the first monthly publication of data pertaining to APP and PEPP holdings in 2023 will be on Wednesday, 4 January at 3.00 pm.

**Primary market**

This trading week saw the big bang before the turn of the year with the last syndicated transaction from the European Union (ticker: EU) in 2022. A total of EUR 7.048bn was raised overall: firstly, EUR 6.548bn was issued in the form of a 15-year social bond at ms +21bp (guidance: ms +23bp area) under the SURE programme. The order book amounted to a sumptuous EUR 25bn. The proceeds of the bond issue will go into the SURE programmes of Bulgaria, Cyprus, Czech Republic, Greece, Croatia, Lithuania, Latvia, Poland and Portugal. In total, EUR 98.4bn of the EUR 100bn programme has therefore been disbursed. With this issue, the EU Commission has also concluded the SURE programme - which is scheduled to expire on 31 December 2022. In addition to the social bond, the mega-issuer secondly topped up its bond EU 2.5% 10/04/52 by EUR 500m at ms +66bp (guidance: ms +68bp area). With an order book of EUR 10bn, the deal was 20x oversubscribed. The proceeds will be used for the extraordinary MFA programme for Ukraine, which has also been completed with this transaction. In 2022, the European Union has therefore supported Ukraine to the tune of EUR 7.2bn. For 2023, it has already launched another aid package for Ukraine, which is bearing the brunt of the Russian war of aggression (see [Issue #35](#)). Commission approval is currently pending. The package comprises EUR 18bn and is to be financed by issuing bonds on the capital market. We would like to end 2022 by wishing you and your families a happy and peaceful Christmas and a healthy and successful 2023.

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
EU	SNAT	06.12.	EU000A3K4D09	15.0y	6.55bn	ms +21bp	AAA / Aaa / AA+	X

Source: Bloomberg, NORD/LB Markets Strategy & Floor Research (Rating: Fitch / Moody's / S&P)

# Covered Bonds

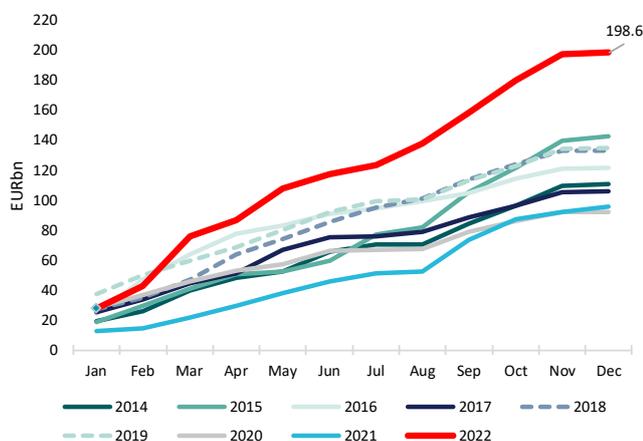
## Our view of the covered bond market heading into 2023

Author: Dr Frederik Kunze

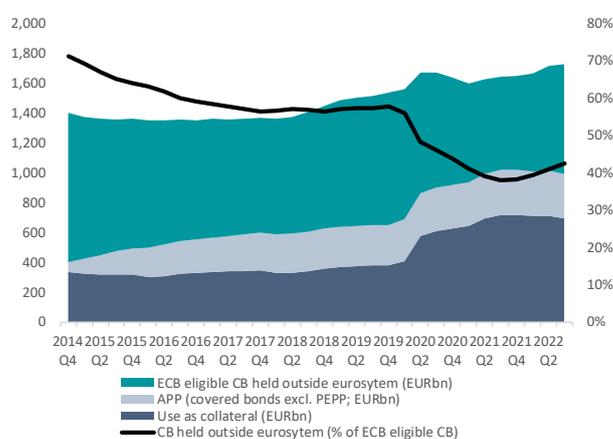
### The covered bond market in 2023

In our weekly publication, we have discussed the surprisingly large volume of issues in the EUR benchmark segment in 2022 and the resulting implications for spread movements on several occasions. In this context, some developments in the year which is drawing to close stood out for us as explanatory variables for the dynamics on the primary market. Coming out of a phase where liquidity was plentiful and ECB monetary policy specifically in the covered bond primary market reduced the execution risk of individual deals, we saw a realignment of market forces towards the end of the year. In a broader more generalised sense, we would say there has been a shift in the market dynamics, altering the primary market from a seller’s market to a buyer’s market in the process. We see this in particular in lower oversubscription ratios and rising new issue premiums. Risk considerations were also again increasingly influencing the investment decisions of the stakeholders involved. On the issuer side, there is and has been a reaction to changing conditions, which was evident not least in the maturities chosen, but also in the frequency of market appearances. While relative value considerations continued to play an important role in investors’ purchase decisions, issuers increasingly focused on assessing opportunity costs. Now, in principle, describing the past is not really what an outlook is supposed to do. Nevertheless, we see several of these explanatory variables as indicative of trends in issuance volume and therefore spread development in 2023. Once again, the ECB’s monetary policy course will be decisive, but we also attach considerable importance to a number of other factors. In this outlook article, we would therefore like to discuss both the implications of the monetary policy turnaround in the Eurosystem as well as the other driving forces on the covered bond market in 2023.

**EUR BMK: issuance history**



**ECB influence on the covered bond market**



Source: Market data, NORD/LB Markets Strategy & Floor Research

**EUR benchmark segment 2022: continuous loop on the primary market**

The primary covered bond market ended 2022 with a record volume of EUR 198.625bn. It is striking that the issuance volume was mainly driven by four jurisdictions (France, Germany, Canada and Austria). The change in the risk propensity of investors due to the interest rate turnaround, the Ukraine war and general recession fears has also resulted in a preponderance of covered bonds with unusually short maturities. What could also be observed in principle, however, was the return of a large number of real money investors to the covered bond segment. This compensated for lower Eurosystem demand, although the combination of deal sizes and order books led to lower oversubscription rates. As a result, we would say that the market power of investors has increased and issuers have had to make more concessions on the spread. We think this market situation will continue, at least into the New Year. We expect a dynamic January, where maturities of “around three years” should dominate. As we see it, issuers from jurisdictions such as Germany or France are likely to get the ball rolling in the first week of trading.

**Primary market 2023: impressive net new supply**

We expect maturities of EUR 115.5bn in 2023 (2022: EUR 138bn) with new issues in the order of EUR 197.5bn. According to our forecast, this would result in a positive net supply of EUR 82bn in the form of new covered bonds in EUR benchmark format, which is very high by historical standards. In our forecast, we initially assumed that the majority of issuers would refinance their maturing covered bonds. In addition, as explained in more detail below, we have made assumptions about the basic development of the lending business as well as the composition of the funding mix in 2023. The sub-components for our 2023 supply forecast at the level of the individual jurisdictions can be seen in the table below. In our opinion, this strong momentum will again be driven by the four jurisdictions, namely France (net supply 2023: EUR 19.9bn), Germany (EUR 15.3bn), Austria (EUR 12.3bn) and Canada (EUR 10.0bn). However, in terms of volume, some of the smaller jurisdictions should also experience relatively strong growth in 2023. This applies to both established countries such as New Zealand and Singapore and to “growth markets” from the CEE universe, such as Slovakia. In the country analysis, we would like to highlight the United Kingdom at this point. For this jurisdiction, we expect an increased focus on the domestic market. We also see somewhat less momentum for the Nordic countries in the EUR benchmark segment. For issuers from Norway, for example, we believe that the focus in 2023 will still be on striking a sensible balance between funding costs and maintaining the corresponding curve, so we anticipate fewer structural changes compared with the UK. As regards Spain, we actually expect the market to regain some momentum. We foresee a positive net new supply in 2023, not least as a result of the inevitable change in the funding mix. In the previous edition of our weekly publication, we looked in detail at the Spanish covered bond market (see [NORD/LB Covered Bond & SSA View from 7 December 2022](#)).

**NORD/LB Forecast 2023: issues and maturities by jurisdiction**

Jurisdiction	Issues 2022	Outstanding volume	Maturities	Issues	Net supply
	as at 14 December 2022 (EURbn)	as at 14 December 2022 (EURbn)	2023 (EURbn)	2023e (EURbn)	2023e (EURbn)
AT	14.0	43.5	1.8	14.0	12.3
AU	11.5	31.8	3.8	4.5	0.8
BE	2.5	17.0	2.5	3.0	0.5
CA	30.3	83.0	15.0	25.0	10.0
CH	0.8	0.8	0.0	1.0	1.0
CZ	0.5	1.0	0.0	1.0	1.0
DE	42.9	179.8	17.8	33.0	15.3
DK	0.5	5.0	0.8	1.5	0.8
EE	0.5	1.0	0.0	0.5	0.5
ES	5.8	72.5	9.4	10.0	0.7
FI	8.6	33.1	5.8	8.0	2.3
FR	43.5	235.1	22.7	42.5	19.9
GB	3.3	21.4	4.0	4.0	0.0
GR	-	0.5	0.5	0.5	0.0
HU	-	0.0	0.0	0.5	0.5
IE	-	1.8	1.0	0.0	-1.0
IS	-	0.5	0.0	0.5	0.5
IT	3.3	48.8	7.3	9.0	1.8
JP	-	4.9	1.0	1.5	0.5
KR	1.6	7.2	0.5	2.5	2.0
LU	-	1.5	0.5	0.0	-0.5
NL	9.8	68.8	3.8	10.0	6.3
NO	8.3	51.4	10.3	9.0	-1.3
NZ	2.3	10.0	1.5	4.0	2.5
PL	0.5	2.0	0.5	1.0	0.5
PT	-	3.0	0.0	0.0	0.0
SE	5.3	29.8	4.5	6.0	1.5
SG	2.3	8.0	1.0	3.0	2.0
SK	1.5	5.0	0.0	2.0	2.0
<b>Total</b>	<b>199.0</b>	<b>967.8</b>	<b>115.5</b>	<b>197.5</b>	<b>82.0</b>

Source: market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

**Basic considerations regarding the framework parameters for our 2023 forecast...**

As already mentioned above, the framework parameters from 2022 will also have an impact on the new year. In our opinion, the change in the funding mix will have a significant impact on issuance behaviour in 2023. Accordingly, we expect issuers to continue to focus strongly on covered funding over the next twelve months. The reduced availability or repatriation of cheap long-term central bank liquidity, the uncertainty with regard to the deposit base also due to the increased cost of living for private households as well as the increasing cost of senior unsecured funding clearly show the importance of covered bond deals in our view. In this context, we see a constant to rising refinancing need on the part of commercial banks overall. Lending policy on the part of financial institutions is set to remain dynamic, although the focus will in part be more on business areas outside property financing. Finally, it seems that the property market has also reached a turning point.

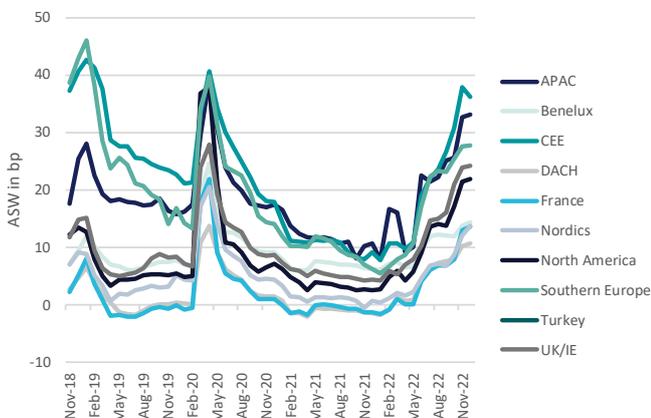
**...ECB shift in monetary policy will remain significant, but by no means the sole driver of new issues**

The shift in the ECB’s monetary policy is making itself felt on both the supply and demand side. On the supply side, we see at least a small proportion of covered bond issues as a substitute for (voluntarily) repaid TLTRO III funds. In this respect, this situation has a negligible impact on our supply forecast for 2023. Another aspect also appears relevant in connection with TLTRO III and covered bonds. For example, retained covered bonds represented a significant portion of the collateral submitted to the central bank. With the reduction of central bank liquidity, the need for this tends to decrease. The cover assets used by retained covered bonds would thus be available for public deals and, in our opinion, allow for dynamic issuance activity in the EUR benchmarks, even if property financing grows much less strongly in 2023 than in previous years.

**Ratings: agencies paint clear picture on stability of risk assessments**

Before we deal with the spread implications in the further course of this article, it seems appropriate to look at the risk perspective at this point. As already described, property markets around the world are facing a turning point. The combination of rising mortgage rates and the general upward trend in consumer prices makes the current price levels in the property markets appear unsustainable, and strong setbacks in property prices should be one of the defining themes for 2023. Although we do not want to play down the dangers at this point, we see no reason to be overly worried about the credit quality of covered bonds. This assessment is also consistent with the picture painted by the rating agencies over a 12-to-18-month period. Covered bond ratings will remain stable even in an expected downturn phase in the property market coupled with fundamental economic weakness (see [Covered Bonds Market Overview](#)). From our perspective, one reason for this is the high credit quality of the issuers. The requirements for cover assets laid down in covered bond legislation, which can be described as stringent overall, paired with the valuation standards for property financing, should also provide sufficient support here.

**EUR BMK: Spread history (5y, generic)**



**EUR BMK: relative value using the example of Germany (generic and long-term average)**



Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

**Spread trend: ECB and technical market data trigger widening...**

The change in ECB monetary policy, but also in part fundamental risk considerations, can already be seen today in the current spread levels. Unsurprisingly, these influencing factors overlap with other framework parameters such as technical market data (surprisingly large net new supply in 2022). The realignment of the monetary policy control parameters, a significant portion of which has been priced in on the markets, includes the reduction of the ECB's overflowing balance sheet in addition to the interest rate turnaround, which is already underway, as already mentioned. Accordingly, this must be taken into account in the forecasts for spreads, and so we expect, for example, notable but not massive widening by the middle of 2023. We expect the main driver to be technical market data and, in this case, the very large net new supply we are anticipating for 2023 in the EUR benchmark segment. Both in the context of ECB announcements but also in phases of sharply declining risk appetite, we also definitely expect sentiment-driven but rather temporary widening of ASW spreads for covered bonds. Fundamental data also plays a role for us in that there should again be larger spread differences across jurisdictions and maturity bands, although we would rather tend to describe this a "return to normality".

**NORD/LB Spread Forecast**

Current levels					as of 30/06/2023(e)					Expected spread change				
<i>in bp</i>	3y	5y	7y	10y	<i>in bp</i>	3y	5y	7y	10y	<i>in bp</i>	3y	5y	7y	10y
AT	13.7	15.6	17.5	21.5	AT	14.0	20.0	23.0	28.0	AT	0.3	4.4	5.5	6.5
AU	26.0	35.0	37.5	39.3	AU	26.0	39.0	43.0	45.0	AU	0.0	4.0	5.5	5.7
BE	6.9	9.5	13.8	22.9	BE	7.0	13.0	20.0	29.0	BE	0.1	3.5	6.2	6.1
CA	17.7	20.4	24.2	27.1	CA	18.0	24.0	30.0	33.0	CA	0.3	3.6	5.8	5.9
CZ	44.1	44.1			CZ	45.0	48.0			CZ	0.9	3.9		
DE	2.6	4.0	5.3	8.9	DE	3.0	8.0	11.0	15.0	DE	0.4	4.0	5.7	6.1
DK	9.2	16.1	20.8		DK	10.0	20.0	27.0		DK	0.8	3.9	6.2	
EE	31.6	34.0			EE	32.0	38.0			EE	0.4	4.0		
ES_Multi	32.8	34.8	36.1	36.1	ES_Multi	33.0	39.0	42.0	42.0	ES_Multi	0.2	4.2	5.9	5.9
ES_Single	18.6	25.1	31.8	40.4	ES_Single	21.0	33.0	43.0	50.5	ES_Single	2.4	7.9	11.2	10.1
FI	1.9	6.3	9.2	11.2	FI	2.0	10.0	15.0	17.0	FI	0.1	3.7	5.8	5.8
FR	7.5	12.0	15.1	20.4	FR	8.0	16.0	21.0	27.0	FR	0.5	4.0	5.9	6.6
GB	19.8	23.2	22.7	26.1	GB	22.0	29.5	33.0	37.0	GB	2.2	6.3	10.3	10.9
IE	12.3				IE	13.0				IE	0.7			
IT	24.6	30.9	36.1	48.9	IT	26.5	37.0	44.0	59.0	IT	1.9	6.1	7.9	10.1
JP	33.5	40.2	41.5	39.7	JP	34.0	44.0	47.0	46.0	JP	0.5	3.8	5.5	6.3
KR	35.3	36.5	36.6		KR	36.0	41.0	42.0		KR	0.7	4.5	5.4	
LU	22.9	20.6			LU	23.0	25.0			LU	0.1	4.4		
NL	7.9	10.9	11.6	15.5	NL	8.0	15.0	17.0	22.0	NL	0.1	4.1	5.4	6.5
NO	8.1	12.5	16.3	17.5	NO	9.0	17.0	22.0	24.0	NO	0.9	4.5	5.7	6.5
NZ	31.5	37.2	34.9	32.7	NZ	32.0	41.0	41.0	39.0	NZ	0.5	3.8	6.1	6.3
PL	36.8				PL	38.0				PL	1.2			
PT	13.5	17.4			PT	14.0	21.0			PT	0.5	3.6		
SE	7.6	10.9	15.0	18.7	SE	8.0	15.0	21.0	25.0	SE	0.4	4.1	6.0	6.3
SG	15.8	18.5	19.9		SG	16.0	23.0	26.0		SG	0.2	4.5	6.1	
SK	24.8	33.1	39.1		SK	25.0	37.0	45.0		SK	0.2	3.9	5.9	

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

**...with this expected to commence as early as the beginning of 2023**

Along with a busy start to the year on the primary market, there should also be significant spread widening. Followed by new issue premiums rising or remaining at an elevated level, the secondary curves are therefore likely to be pushed up in parallel. The continued tightening spread versus bunds, for example in the case of German Pfandbriefe, is likely to dampen the attractiveness of covered bonds somewhat. In connection with the expected abundance of new issues, concessions will definitely have to be made by issuers. However, with the wave of fresh bonds flattening out somewhat after the first few weeks of trading, the curves could move back again somewhat, as we have repeatedly observed in 2022. However, there should no longer be a general narrowing across all jurisdictions. Overall, we maintain that no spread widening is to be expected for covered bonds from a credit quality point of view.

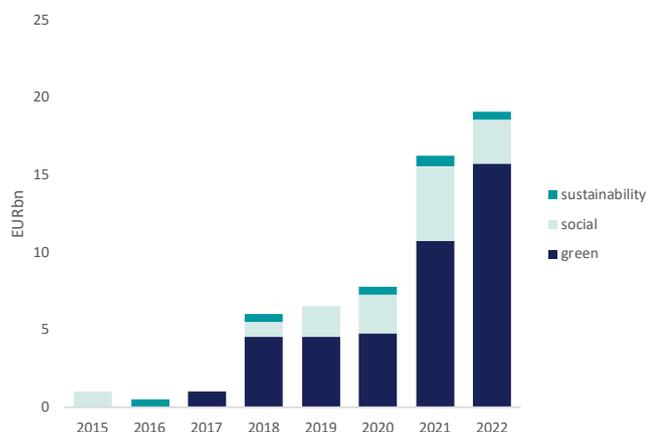
**What does 2023 hold in store from a regulatory or structural perspective?**

While 2022 was marked by the official start of the new “EU minimum standards” on 8 July 2022, 2023 has very few significant milestones in store for us in this context. The focus is likely to be on the “third-country rule” and therefore greater cohesion of the global covered bond markets. The process of adapting the reporting standards for the Covered Bond Label (HTT), which will henceforth be based on Article 14 of the EU Directive, has already started for issuers outside the scope of the EU Directive and has already been completed in some jurisdictions. We continue to see question marks over UK covered bonds with regard to LCR eligibility, but remain convinced that it can be preserved (see [NORD/LB Covered Bond Special from 5 August 2022](#) ). Furthermore, 2023 will be a defining year for Basel III finalisation and implementing the requirements in Europe could put a strain on covered bond issuers. From the point of view of Pfandbrief banks operating in Germany, the Association of German Pfandbrief Banks (vdp), for example, has repeatedly criticised the proposals and called in particular for an adjustment to ensure that the institutions are not saddled with an excessively high capital burden for residential or commercial property business. Internationally, the European Covered Bond Council (ECBC) regularly highlights the fundamental importance of the property market as well as the specific benefits of the covered bond sector for Europe, including the relevance of mortgage financing for the green transition. An adequate assessment of the risks and a justifiable capital burden are needed. This should be ensured by making appropriate adjustments to the Basel III finalisation, so that property financiers and covered bond issuers can rise to this challenge.

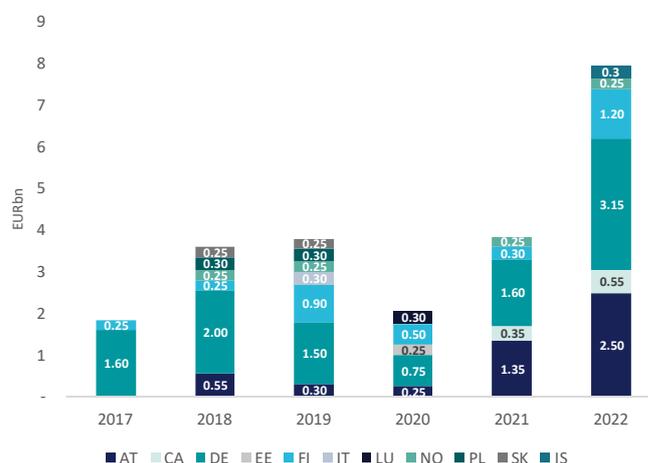
**ESG: not just a buzzword for the covered bond market in 2023**

The subject of sustainable covered bond benchmarks has taken more of a back seat in this “crisis year” of 2022. This may also be due to the fact that, although we can talk about a record year in terms of the new ESG issuance volume, its share in relation to total new bond placements is somewhat lower. However, this should not detract from the fact that “ESG” remains a growth market. In 2022, we welcomed seven ESG debutants to the EUR benchmark segment. In 2023, we also expect new additions and follow-up deals from the institutions already active on the market. In the market environment we are expecting, characterised by an abundant supply and rising spreads, we would definitely say there will be increasing investor interest in sustainable formats. The proportion of investors with an ESG focus or sustainable mandate continues to rise, while we believe that the supply does not yet meet this growing demand. At the same time, however, the demands on issuers in terms of the required standards are also increasing. In addition, there is a certain amount of uncertainty surrounding the regulatory requirements. In this context, we are thinking in particular of the EU taxonomy and the European Green Bond Standard. Question marks remain in connection with the “social taxonomy”, as the project has recently stalled somewhat at EU level. However, we actually foresee an uptick in momentum for both green and social covered bonds in 2023. With a share of more than 10% of the total volume of new issues, fresh ESG deals are likely to pass the EUR 20bn mark over the next twelve months.

## EUR BMK: ESG issues



## EUR SBMK: Issues



Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

### Away from EUR benchmarks: sub-benchmark segment to remain dynamic in 2023...

In the past, we have repeatedly pointed to the EUR sub-benchmark segment as a notable niche market. The smaller deal sizes also enable covered bond issuers with lesser funding requirements or smaller cover pools to make regular market appearances. For some investors, the less liquid bonds (following the regulatory interpretation of the LCR regulation) appear to be an interesting investment opportunity due to a spread premium. After a comparatively strong year in 2022, we expect the primary market for EUR sub-benchmarks to remain buoyant over the next twelve months. This can be explained not least by the high level of momentum in the dominant countries Austria and Germany. Similar to activities in the EUR benchmark segment, issuers from these jurisdictions also look set to increasingly approach investors on this “niche market”.

### ...and non-EUR deals are also a talking point

In 2023, some issuers outside the euro markets will again raise funding from investors. While the Nordic jurisdictions in particular such as Denmark, Sweden and Norway rely on their established home markets and make their actual appearances contingent upon their primary funding needs and opportunistic aspects, we see a continuation of an issuance approach spanning a variety of currencies, especially among Canadian institutions. We expect the same from Australian covered bond issuers, albeit to a lesser extent. As in 2022, especially for these two jurisdictions, an appearance in USD, AUD or GBP should not be to the detriment of the EUR benchmarks. Ultimately, given the high volume of fresh EUR benchmarks from Canada and Australia, the appearances in “foreign currencies” did not really seem to get in the way of euro activity. In our view, the situation is somewhat different in the Nordics. There is definitely a somewhat stronger substitution relationship between the different currency markets. We take this into account in our issuance forecast, among other aspects, by focusing more on maturities and expecting at most very modest growth in the respective EUR markets. Another “special case” is the UK, where we have already observed a high concentration on the domestic market and thus the GBP in 2022, which we also expect to remain the case in 2023 as well.

**Conclusion**

After a turbulent 2022, we expect covered bonds to continue to live up to their role as a crisis product in the coming twelve months. For issuers, this means a secure and reliable source of stable funding, while investors are offered fundamentally high credit quality. In terms of issuance volume, this is one of the reasons why we could well be heading for another record-breaking year. It is however important to note that covered bonds are not isolated from market events and issuers do not operate in a vacuum. Initially, a very high issuance volume in 2023 is likely to cause spreads to widen due to technical market data alone. The shift from a seller's to a buyer's market took place in 2022 and this new situation will remain at least in the first quarter of 2023. Comparatively lower oversubscription rates and, on average, relatively high new issue premiums are likely to continue to be a consequence of these new power dynamics. On the covered bond market, investors focusing on the short end also impressively demonstrated to us in 2022 how to avoid duration or interest rate risks. In fact, some issuers are likely to test the appetite of investors at the long end just a matter of weeks into the new year. The withdrawal of the Eurosystem will simultaneously be accompanied by lower demand. Entry into the quantitative tightening phase is only partially priced in. However, we also anticipate potentially "exaggerated" widening, so rises driven by market sentiment should tend to be of a temporary nature. In view of the fundamental valuations of covered bonds, we expect credit quality to remain high in 2023 and do not see the current developments on the international property markets as a real danger.

## SSA/Public Issuers

# SSA outlook 2023: ECB, NGEU and the debt brake in Germany

Authors: Dr Norman Rudschuck, CIAA // Jan-Phillipp Hensing

### **Public sector issuers dealing with inflation, cycle of rate hikes and war of aggression**

In the last edition of our weekly publication ([07 Dec. 2022](#)), we shared our outlook for tomorrow's ECB meeting, the last of the year. In this, we projected a baseline scenario in which the ECB would not only hike all three of the relevant interest rates by a minimum of 50bp, but would also ideally set the course in matters of reinvestment. Some market players are currently hankering after information about expiring reinvestments in the context of the central bank's original asset purchase programmes (APP), in which titles from public sector issuers were predominantly purchased (public sector purchase programme; PSPP). The ECB will continue to act as a "hoover" on the SSA secondary market over the course of 2023; this is how we interpret the forward guidance for the pandemic emergency purchase programme (PEPP), which will continue as the first line of defence until (at least) the end of 2024. State financing in a direct way, meaning Eurosystem participation in the purchase programmes on the primary market, will remain forbidden. However, institutional investors are keeping reserves at the ready: certainly not just for investing in the ESG segment (investment criteria: environmental, social, governance), but also for managing their LCR portfolios and engaging in asset and liability management, and consequently reconciling the asset and liability sides of the balance sheet. Diverse real money investors are also returning to the market.

### **ECB: the more, the better?**

In 2023, too, the SSA segment is again likely to be driven primarily by the ECB's monetary policy course. We may be just one day away from an announcement by the central bank that monthly reinvestments will slowly be wound down. Of course, this also harbours a certain potential for disappointment if the ECB remains silent tomorrow. At the very least, we tend to expect gradual spread widening in the bond market to be for technical reasons, although a sentiment-driven widening over the course of the year would also be feasible, depending on the circumstances. This could be the case if politicians in Italy again make inexplicable decisions or if the transmission protection instrument (TPI) has to be utilised contrary to expectations. Detractors in any case claim that the "I" does not stand for instrument, but for Italy. Let us now turn our attention to our asset class for European supranationals and agencies as well as German Bundesländer on which we focus. However, other regions within the euro area with significantly lower bond supply (such as Belgian and French regions) are also affected by the current market environment of rising interest rates. Members of the ECB Governing Council and the Executive Board chairing the Governing Council have so far avoided making clear statements and postponed landmark decisions with regard to reinvestments until tomorrow's final meeting of 2022. The following provides a structured presentation of our assessments for 2023. Unforeseeable events cannot be ruled out, of course: 2022 developed differently to what had been expected at the beginning of the year. The war of aggression, rather excessive inflation and a gas supply cut-off were not particularly prominent on anyone's agenda, but in their own way became real game changers.

**A more differentiated view must be taken of (net) supply than in the past**

By now, most issuers have completed their refinancing for the current year or are on the funding home straight. Overall, EUR benchmark issues (from our analysed SSAs) are expected to amount to almost EUR 270bn in 2022. After around EUR 190bn in 2017 and EUR 166bn in 2019, this is a very high figure, albeit lower than in the two key pandemic years (2020: EUR 303bn; 2021: EUR 325bn). After all, German Bundeslaender managed without additional credit authorisations in 2022. In addition, initial acclimatisation effects have set in, although it was not only the ECB that operated and traded with enormous volumes, with the European Union, as a relatively new “mega-issuer”, also acting decisively so far – and it still has a great deal in the pipeline up to 2026. This will continue to have a significant impact on the funding volume in 2023 (and beyond). For the coming year, we therefore expect EUR benchmark issuances of around EUR 250bn, subject to a certain degree of uncertainty. This value would again move above the pre-crisis volume and therefore stabilise at a high level, although the drivers are different from year to year.

**Focus: German Bundeslaender**

After an initial spread scare, a very high level of action – especially in EUR benchmarks – was observed in 2020 due to the pandemic situation. At one point, even BAYERN and SAXONY returned to the capital market – two real and at the same time rare alternatives in the best rating segment. After a disproportionately high supply was met with huge demand in 2021, we were surprised in 2022: not a single benchmark bond came from BAYERN or BADWUR, despite some enormous credit authorisations. Spreads and maturities will remain the hot topic of 2023, but we do not expect another Methuselah bond with a 100-year maturity from NRW. Estimating the total volume is also more difficult than ever, as it is remains unclear how the debt brake and Laender-specific relief packages will be dealt with.

**Credit authorisations of German Bundeslaender: 2022 vs. 2023e (EUR bn)**

	2021	2022e
Baden-Wuerttemberg	23,78	4
Bavaria	7,07	3
Berlin	8,20	5
Brandenburg	3,25	1
Bremen	1,98	2
Hamburg	4,39	1
Hesse	7,73	4
Mecklenburg-Western Pomerania	0,42	1
Lower Saxony	5,91	6
North Rhine-Westphalia	13,85	14
Rhineland-Palatinate	4,89	5
Saarland	2,30	1
Saxony	0,41	1
Saxony-Anhalt	1,65	2
Schleswig-Holstein	4,57	3
Thuringia	0,81	1
<b>Total</b>	<b>91,21</b>	<b>54</b>

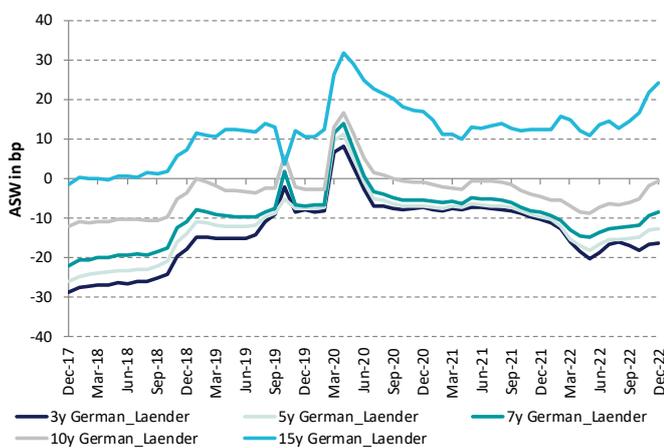
e = estimate

Source: Bloomberg, NORD/LB Markets Strategy &amp; Floor Research

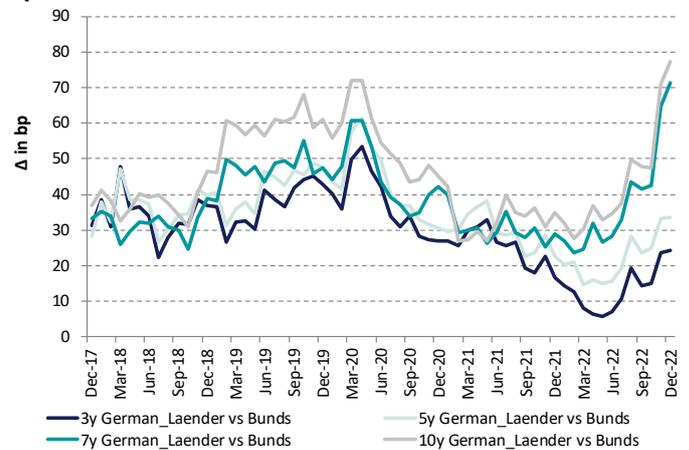
**Bundeslaender funding requirements expected to be lower again in 2023**

When it comes to regional bonds, those of German Laender continue to be by far the most significant sub-sovereign market – above all in 2020, but also in 2021, the 16 federal states once again extended their lead and consequently their importance. However, there had been a decline in funding volumes for many years prior to this. For 2023, we expect the gross placement of new bonds to be around EUR 50-60bn (assumption: EUR 54bn). In contrast, maturities were just under EUR 52bn. In both cases, these are not only EUR benchmark bonds, but also foreign currencies and borrower’s note loans, with the trend of positive net supply of recent years now likely to be a thing of the past. However, in this forecast, everything hinges on the structuring or (non-)suspension of the debt brake. Whatever the volume, it does not detract from the relevance of German sovereign bonds in this important segment. In previous years, the Laender budgets benefited from the sound economic development in Germany. Both pre-pandemic macroeconomic development and the forward-looking sentiment indicators suggest a continuation of the robust macroeconomic environment, which had had a positive effect on the income and expenditure status of public budgets until Covid-19. Against the background of the debt brake that has also been in force at federal state level since 2020, the budgetary discipline of the Laender has already been much more pronounced than in the past. In the year the debt brake was activated, even the greatest pessimists would likely never have imagined it would remain suspended due to the pandemic for not just 2020, but 2021 and 2022 as well. While legally this situation was planned for in advance, there was hope that this option would rarely or never have to be utilised. In our view, the primary market supply we expect for 2023, which is significantly lower than from 2020 to 2022, should lead to spread movement in this segment – once stimulated by central banks and now driven more fundamentally. However, we think this is only likely to emerge over the course of 2023, as there has been a stronger focus on long-term maturities in the refinancing of the Bundeslaender in recent years. As at 12 December 2022, 555 different German bonds have been purchased by the ECB or associated central banks under the PSPP and PEPP since 2015. By contrast, there are 130 ISINs from other European regional issuers (including VDP, IDF, WALLOO, FLEMSH, MADRID).

**Spread movement of German Bundeslaender**



**Spreads of Bundeslaender vs. Bunds**



Source: Bloomberg, NORD/LB Markets Strategy & Floor Research; data as at 12 Dec. 2022 eod

### Other European regions in the context of the PSPP

While the German Bundeslaender will probably act as described, we now want to take a look at the French regions of Île-de-France (IDF) and Ville de Paris (VDP), the Belgian counterparts (including FLEMSH and WALLOO) and, from overseas, the Canadian provinces (BRCOL, ALTA etc.). We have been calling this segment “Beyond Bundeslaender” since 2021. We are planning to accompany this with further research in 2023, especially updates of our well-known publications. The French, in particular, regularly stand out as ESG issuers. There was also an increase in supply from Madrid, as this region had already been posted to the Eurosystem’s books with 23 different ISINs. For many years, the Generalitat de Catalunya fell through the cracks. The rating of Spain’s Autonomous Community of Catalonia (ticker: GENCAT) has always been outside the investment grade range and was therefore not available for purchase by the Eurosystem for a long time. This has changed over time and a bond has found its way onto the books of the Eurosystem. Conversely, as the table below shows, other Spanish regions have already been purchased to a significant extent. Lesser-known tickers such as the Belgian LCFB and BRUCAP also feature here. In these regions, we expect significant funding activity in 2023, too, as underlined by the benchmark bonds from WALLOO and LCFB in 2022, though GOVMAD and AZORES also reinforced the trend with their sub-benchmarks. It is still interesting that not a single bond has been purchased from an Italian region. In our opinion, the overall market for Italian government bonds is sufficiently large to not have to deviate from BTPs and still be able to comply with the capital key. For a long time, this also applied to Austria (albeit to a much lesser extent).

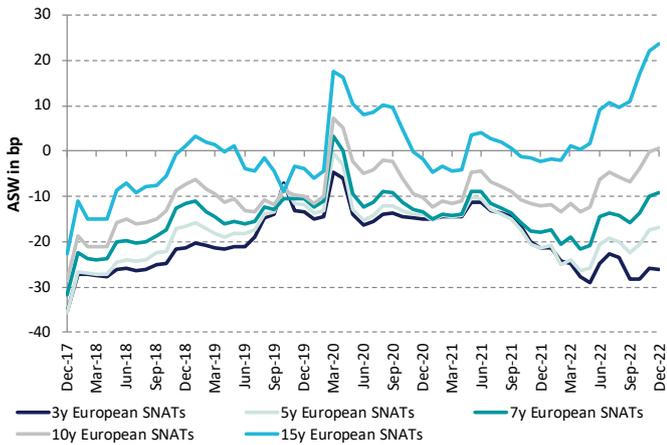
### ECB purchase list for the PSPP – regional European issuers

Issuer	Jurisdiction	ISINs already purchased	Issuer	Jurisdiction	ISINs already purchased
BADWUR	DE	24	IDF	FR	5
BAYERN	DE	14	VDP	FR	3
BERGER	DE	55	MADRID	ES	23
BREMEN	DE	53	CASTIL	ES	6
BRABUR	DE	24	BASQUE	ES	11
HESEN	DE	53	ARAGON	ES	1
HAMBRG	DE	28	ANDAL	ES	67
NIESA	DE	62	BALEAR	ES	1
MECVOR	DE	3	JUNGAL	ES	3
NRW	DE	78	NAVARR	ES	1
RHIPAL	DE	44	GENCAT/CANARY	ES	je 1
SAARLD	DE	11	WALLOO	BE	21
SCHHOL	DE	39	FLEMSH	BE	17
SAXONY	DE	9	LCFB	BE	8
SACHAN	DE	11	BRUCAP	BE	9
THRGN	DE	21	GOVMAD	PT	4
BULABO	DE	1	AZORES	PT	8
LANDER	DE	25	NIEDOE	AT	1
<b>Summe</b>	<b>Σ</b>	<b>555</b>	<b>Summe</b>	<b>Σ</b>	<b>130</b>

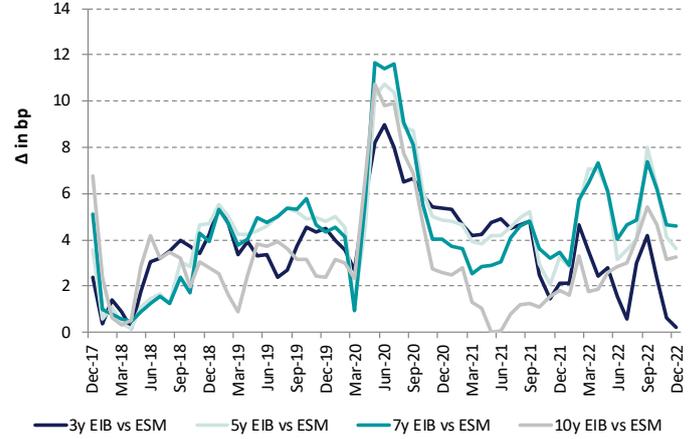
**Supranationals under the spell of political pandemic decisions**

The (few) E-supranationals continue to represent an important category in the SSA universe and have been larger than all German EUR benchmark issuers combined in our definition of the segment since 2021. A generally very good rating, high liquidity and regulatory preference continue to speak in favour of bonds placed by supranational issuers. Back in 2019, the EIB's governors, Europe's finance ministers, had already unanimously agreed that Brexit would not affect the EIB's funding activities and business model. Subsequently, Romania and Poland contributed additional capital, allowing the EIB to have a higher capital base than before Brexit. Naturally, the EIB will remain a regular player in the primary market in 2023. Here, we expect a funding target of between EUR 60bn and EUR 65bn – again divided between a large number of different currencies. This is set against maturities of around EUR 61.5bn. At European level, the overall picture is dominated by a few big names: the expansion in EUR benchmark issues this year can largely be attributed to the EU's appreciably increased funding needs under its Next Generation EU (NGEU) programme. This will also apply to 2023, and will even increase further, since the previous EUR 170.8bn is likely to be followed by an additional EUR 50bn to EUR 60bn in capital market funding for NGEU in the first half of the year alone (NGEU, the European Union Recovery Instrument, is a Covid-19 economic recovery package). Here, we expect concrete target figures by 20 December at the latest. For the second half of the year, we anticipate at least another EUR 50bn to EUR 60bn, but we would not be surprised by a larger figure. EU bills always supplement these values and are therefore not included. In the course of its actual operations, the EU often had neutral net supply until 2020. The maturities of EUR 3.5bn in 2023 will therefore be extended as usual. In 2022, a great percentage of macro-financial assistance (MFA) went to Ukraine (EUR 7.2bn), while EUR 18bn is currently earmarked for the country in 2023. We therefore expect between EUR 125bn and EUR 135bn in funding from the EU (all EUR benchmarks or taps, some of which green). For the ESM, we expect negative net supply of just under EUR 5bn for the coming year, while EUR 8.0bn of new products will enter the market (maturities: EUR 12.9bn). This applies subject to and with the exclusion of the not yet quantifiable Enhanced Conditions Credit Line (ECCL) and other emergency assistance from the ESM. For the EFSF, we expect new issuances to increase again to EUR 20.0bn, following the total of EUR 19.5bn that was placed in 2022. In the past, new issuances always (significantly) reduced (after fresh supply of e.g. EUR 28.0bn in 2018 and even EUR 49.0bn in 2017). This is set against maturities of EUR 22.5bn in 2023. It corresponds to a negative net supply of EUR 2.5bn for the EFSF. Here, we do not suppose the plan will be changed in any way. In addition, we expect the ESM to reappear on the market with a USD bond next year, which did not happen in 2022. It will also be interesting to see when and how the ongoing topic of the European Monetary Fund (EMF) results in a transformation of the ESM – similar to or as a local counterpart to the IMF. Speaking of transformation and political will: in 2023, we will focus on how the EIB's capital market structure, which is currently undergoing renewal and restructuring, will affect the “green bonds” asset class after Brexit and the (corporate) policy reorientation towards the entire ESG segment. In addition, EU green bonds are expected to total around EUR 225bn by 2026. The role of social bonds for the EU can now be regarded as over for 2022 in the context of SURE activities. The EU is especially dominant in the green segment for EUR benchmarks in the short to medium term with new supply and is becoming the largest green bond issuer in the world.

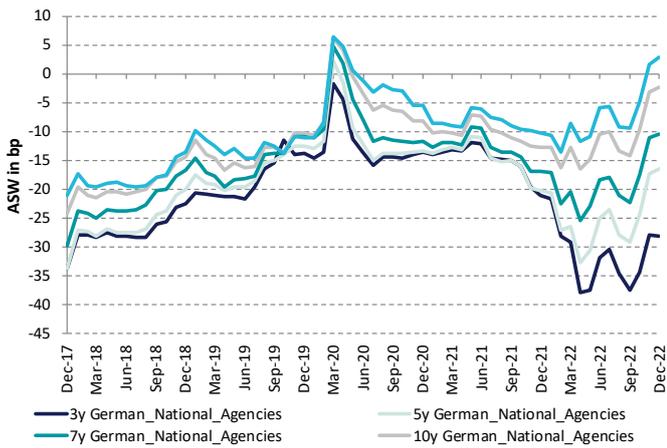
**Spread movement of European supranationals**



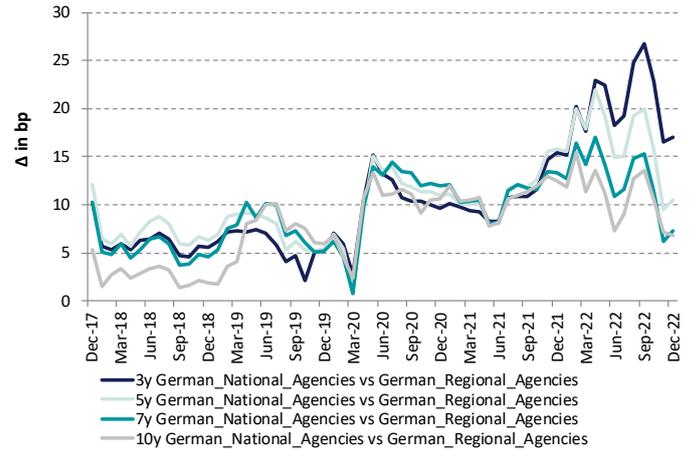
**Spread differences: EIB vs. ESM**



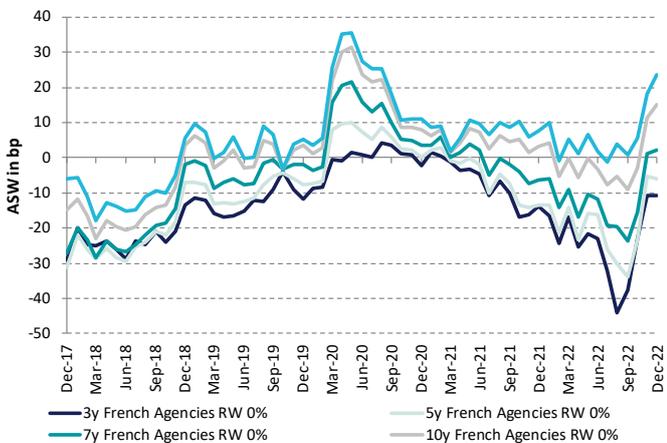
**Spread movement of German national agencies**



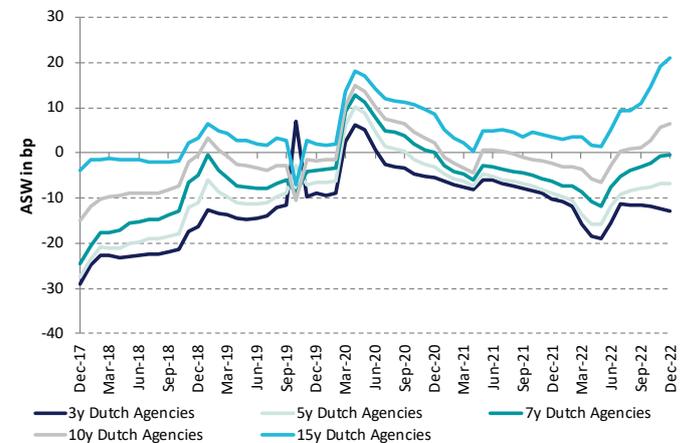
**Spread differences: German agencies**



**Spread movement of French agencies**



**Spread movement of Dutch agencies**



Source: Bloomberg, NORD/LB Markets Strategy & Floor Research; data as at 12 Dec. 2022 eod

**German Agencies have stable net supply overall**

For the German agency market, we expect net supply to remain stable or even positive overall, with volumes slowly picking up again for traditional funding programmes rather than emergency aid and coronavirus programmes. Much was still overshadowed by the coronavirus in 2022. Nevertheless, we expect a considerable funding volume for the most dominant market player, KfW, although some of the federal government's pots, such as the Economic Stabilisation Fund (ESF), can also be tapped here. In 2022, the Frankfurt bank adjusted its funding target during the year from EUR 80-85bn to EUR 90bn. In our view, total funding is likely to level off again at more than EUR 80bn in 2023. We now expect the exact figures from Frankfurt on a daily basis, though during the Global Investor Broadcast on Monday (19 December) at the latest. This compares with a maturity volume of EUR 72.9bn. Net supply would be correspondingly positive with an expected value of at least EUR 80bn (minimum EUR +7bn). On the other hand, the funding of German agencies (this segment not only includes development banks) has in the past also been driven by winding-up agencies such as FMSWER and ERSTAA, which naturally refinance their wind-down portfolios to an ever-lesser extent. These two issuers are not purchased by the Eurosystem under the PSPP and PEPP purchase programmes and always offer a certain pick-up vis-à-vis promotional banks with a similar rating. As with the German Bundeslaender, we expect spreads for known agency addresses to increase only gradually, as they will continue to be in demand by the Eurosystem as part of reinvestments. Overall, we assume that the fundamental analysis of individual issuers will once again gain in prominence for the German market and that Eurosystem reinvestments will dampen strong spread increases.

**France dominates heterogeneous agency market ahead of the Netherlands and Nordics; forecasts barely possible for overseas regions**

Let's briefly recall the EU's funding goal for 2020: EUR 800m (this is not a typo). Due to the pandemic, it increased more than fifty-fold (!) to over EUR 41bn for the year as a whole. The same was true for UNEDIC, which started with EUR 3bn, adjusted its funding target several times throughout the year and ultimately ended up at around EUR 20bn. Compared with this hectic activity on the primary market, 2021 was almost a haven of calm at EUR 10bn, as significantly less had to follow. In 2022, it had even dropped to EUR 1bn. We will therefore not take a closer look at French agencies (RW 0% and 20%) at this point, since this picture of uncertainty also applies to CADES. It is clear that players in this segment will continue to have considerable funding volumes to place on the primary market and will also be active in the ESG segment. The ESG issuer SOGRPR is also always worth a mention. Conversely, Dutch promotional banks are much more stable and predictable. BNG's funding for 2023 is expected to return to between EUR 12bn and EUR 14bn. In addition, their sustainability and social housing bonds are already well established. It is similar for NWB, which issues the equivalent of EUR 10bn in various currencies each year. Here, ESG criteria appear in the form of water bonds, affordable housing and sustainable development goals. The target for SRI bonds is always above 25%. Both Dutch banks are also strongly diversified via different currencies – only the Nordics are more so in this regard. EUR benchmarks from the Canadian provinces are difficult to predict. All issuers primarily prefer their domestic currency, using the euro only opportunistically when a window opens on the basis of cross-currency swaps.

**ESG – far from a purely green segment: environmental, social, governance**

The volume of issued green bonds has grown strongly and almost exponentially since the EIB's first green bond issuance in 2007. However, growth in the meantime stagnated at a very high level after 2017. As a result, the growth path seemed to be interrupted at first. Nevertheless, the milestone for an issue volume of over EUR 100bn per annum was exceeded. The ESG segment received an additional boost in terms of both green and social issuances. The EU's SURE programme alone cumulatively consists of almost EUR 100bn in social bonds. From 2021 to 2026, the EU is set to become the world's largest green issuer. The French issuers UNEDIC and CADES are also active in large volumes here. On the whole, countless issuers not only focused on social housing and social inclusion, but also the coronavirus pandemic in order to counter the social consequences and consequential losses. In 2023, it will also be interesting to see how the EIB's capital market structure – which is currently being renewed and restructured – will affect the green bond segment. Ursula von der Leyen is not the only one who wants to and will make the EIB greener. The transformation process is in full swing and the path of the inventor of green bonds can still be described as pioneering. However, KfW and North Rhine-Westphalia have also built up a sustainable or green and at the same time liquid curve. Added to this is the EU's plan to issue at least EUR 225bn as green bonds under its NGEU programme by 2026, of which "only" EUR 36.4bn has been raised so far.

**Digital bonds gaining popularity**

Last but not least, it is time to take a look at the general digital transformation in the bond market. The EIB was not just a pioneer for ESG bonds but also for EUR digital bonds in 2021 and 2022. Although these did not even feature sub-benchmark volumes, their promising relevance for the future cannot be denied. KfW also issued its first digital bond last week, paving the way for German issuers. We doubt whether digital bonds will play a significant role in 2023. Nevertheless, the situation continues to develop and is one we will continue to monitor.

**Conclusion and outlook**

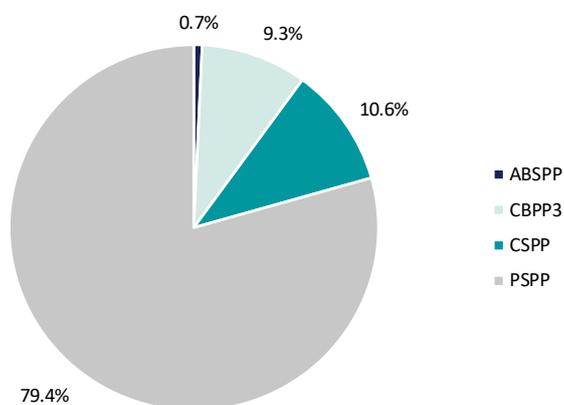
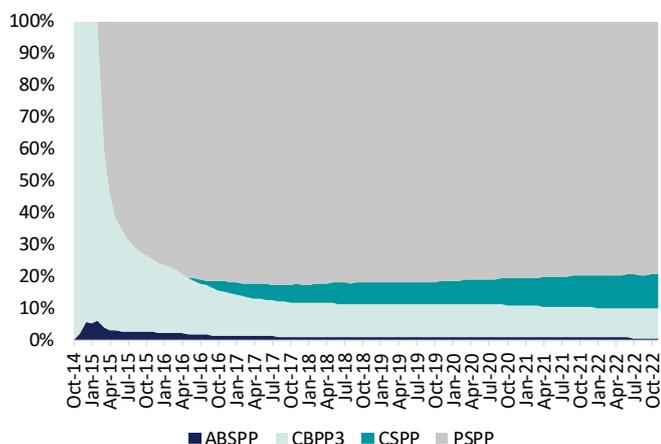
In 2023, we expect the SSA segment to be less dominated by the COVID-19 pandemic, or perhaps more accurately, the measures taken by public issuers to tackle the pandemic. Rather, the declining reinvestments under the ECB's asset purchase programmes will come to the fore instead. The APP should be mentioned here, in particular. We are already hoping for details on the duration and scope of these in the context of the APP and the Eurosystem's tendencies towards tapering from tomorrow's ECB press conference, which will set the tone for monetary policy in 2023. In addition, we do not assume any dramatic movement in the spread landscape in our baseline scenario. In our view, this is prevented by the hundreds of billions of ongoing reinvestments under the PSPP and PEPP. Over a period of 18 months to three years, the spread levels from 2016 could represent a realistic target for most issuers within our coverage. We also await the effect of seasonal patterns, such as how strong January will be (the EU might only return to the market in February). The impact of the current energy crisis remains difficult to predict; further relief packages with additional funding requirements cannot be ruled out. There is also potential for surprises in Laender funding from (not) dealing with the debt brake, which is coming into force again.

## ECB tracker

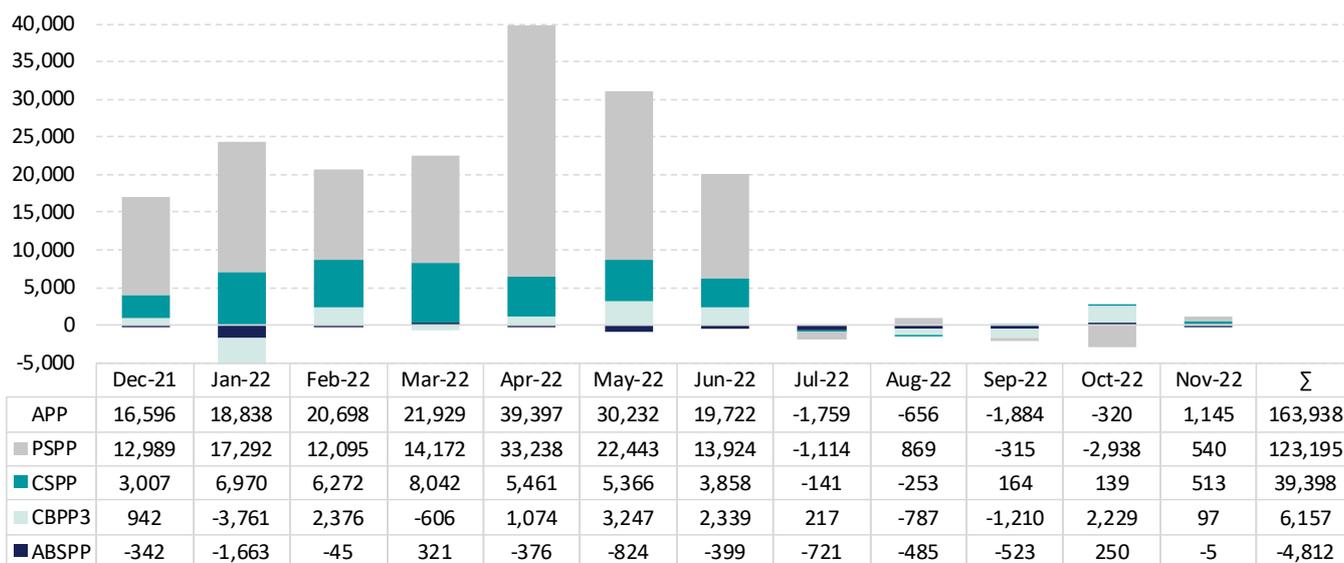
### Asset Purchase Programme (APP)

	ABSPP	CBPP3	CSPP	PSPP	APP
<b>Oct-22</b>	23,844	302,385	344,527	2,585,180	3,255,936
<b>Nov-22</b>	23,839	302,482	345,039	2,585,720	3,257,080
<b>Δ</b>	-5	+97	+513	+540	+1,145

### Portfolio structure

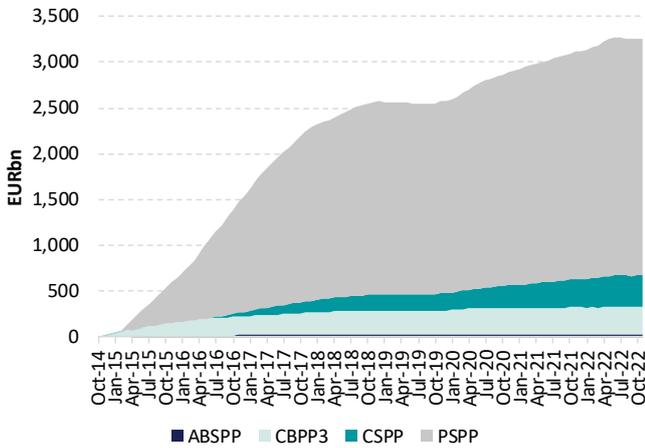


### Monthly net purchases (in EURm)

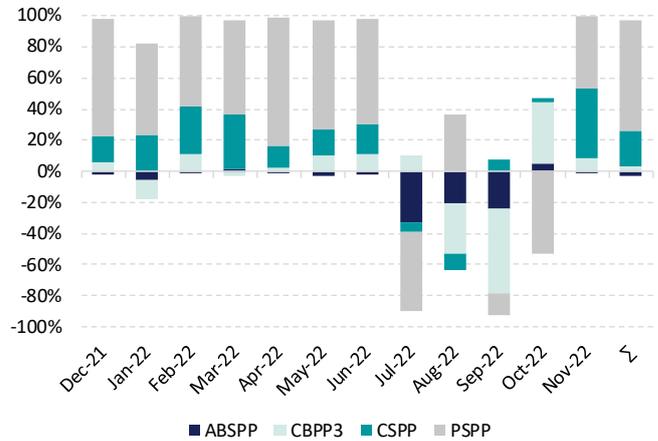


Source: ECB, NORD/LB Markets Strategy & Floor Research

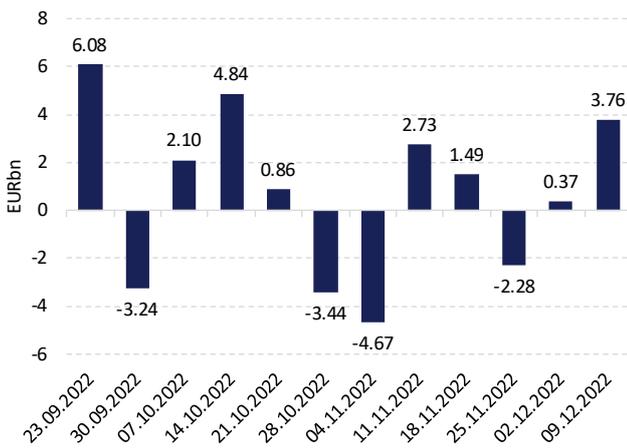
**Portfolio development**



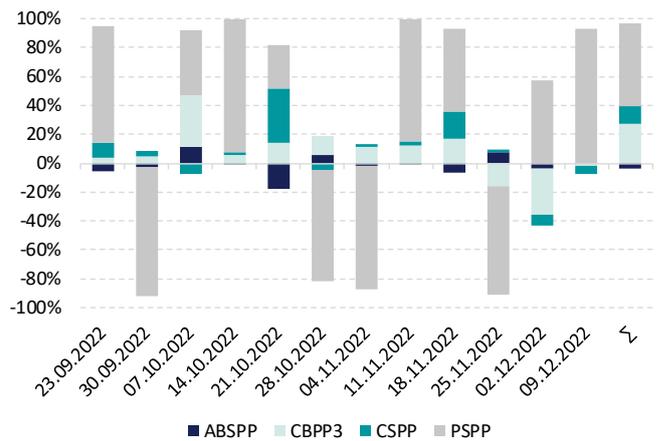
**Distribution of monthly purchases**



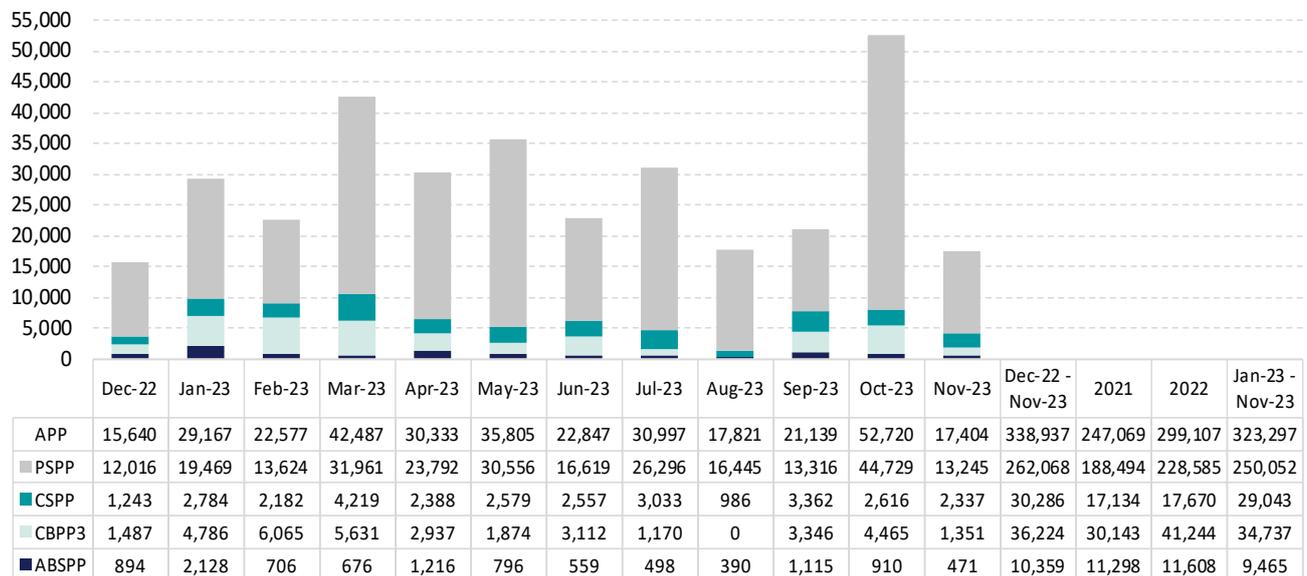
**Weekly purchases**



**Distribution of weekly purchases**



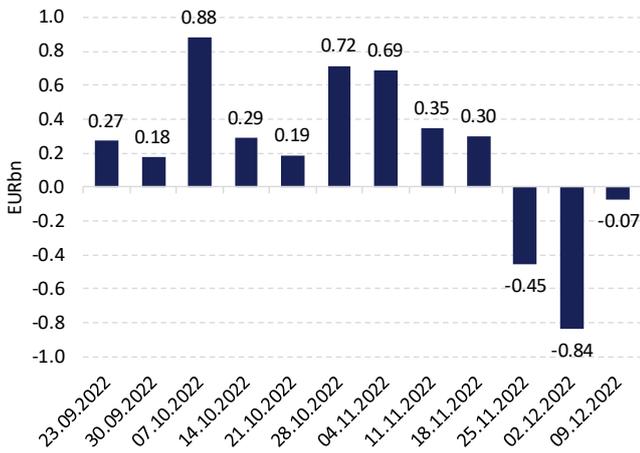
**Expected monthly redemptions (in EURm)**



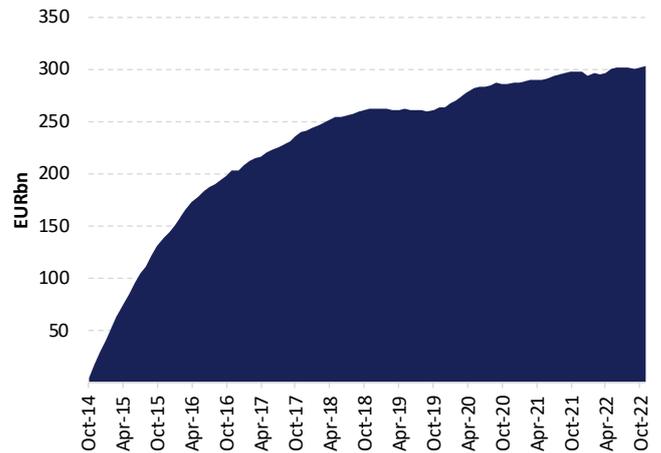
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

**Covered Bond Purchase Programme 3 (CBPP3)**

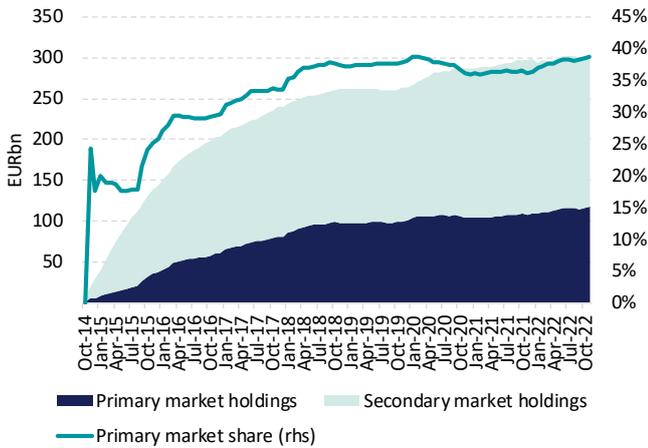
**Weekly purchases**



**Development of CBPP3 volume**



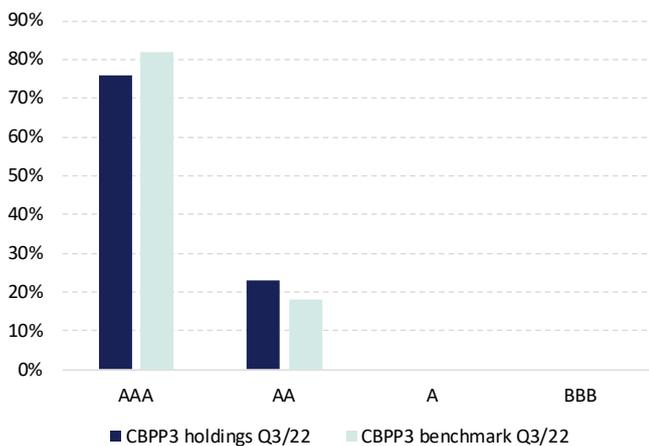
**Primary and secondary market holdings**



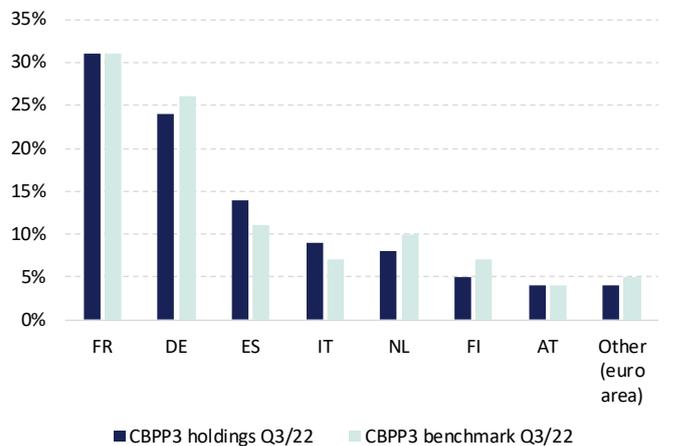
**Change of primary and secondary market holdings**



**Distribution of CBPP3 by credit rating**

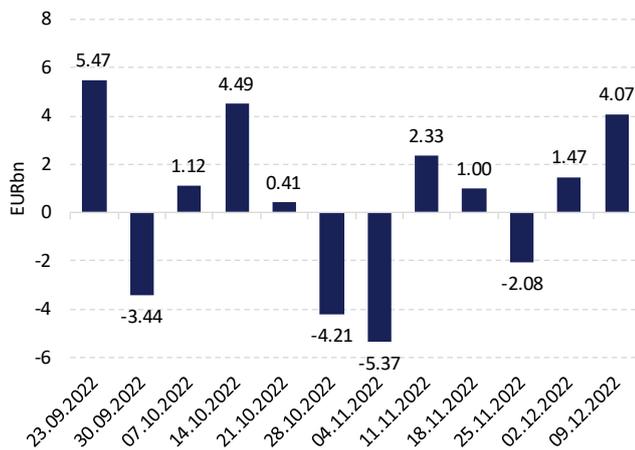


**Distribution of CBPP3 by country of risk**

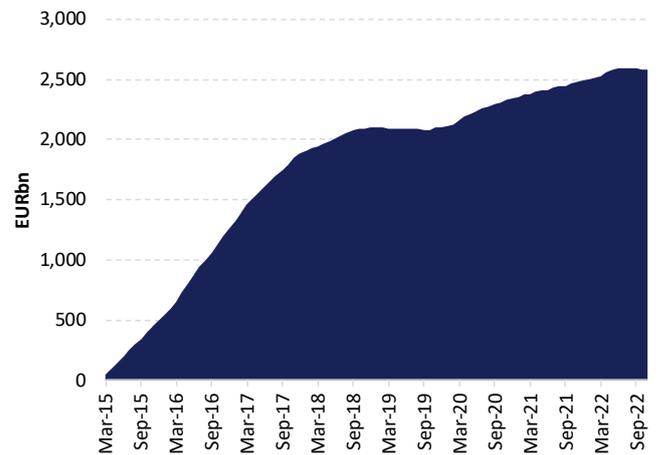


## Public Sector Purchase Programme (PSPP)

## Weekly purchases



## Development of PSPP volume



## Overall distribution of PSPP buying at month-end

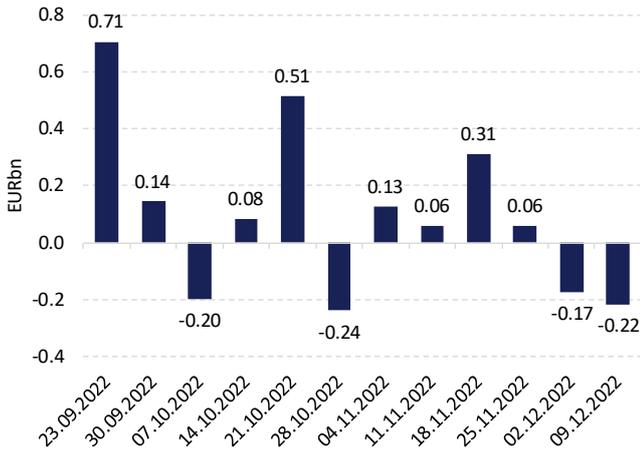
Jurisdiction	Adjusted distribution key <sup>1</sup>	Holdings (EURm)	Expected holdings (EURm) <sup>2</sup>	Difference (EURm)	Current WAM of portfolio <sup>3</sup> (in years)	WAM of eligible universe <sup>4</sup> (in years)	Difference (in years)
AT	2.7%	74,794	74,046	748	7.6	8.4	-0.9
BE	3.4%	94,058	92,168	1,890	7.3	10.4	-3.1
CY	0.2%	4,483	5,444	-961	8.4	8.9	-0.6
DE	24.3%	668,299	666,903	1,396	6.7	8.0	-1.3
EE	0.3%	531	7,126	-6,595	7.9	8.5	-0.6
ES	11.0%	315,704	301,673	14,031	7.7	8.2	-0.5
FI	1.7%	44,102	46,470	-2,368	8.1	8.9	-0.8
FR	18.8%	532,243	516,702	15,541	6.8	8.6	-1.9
GR	0.0%	0	0	0	0.0	0.0	0.0
IE	1.6%	42,708	42,840	-132	8.4	10.2	-1.8
IT	15.7%	445,698	429,782	15,916	7.2	8.0	-0.8
LT	0.5%	5,992	14,642	-8,650	10.1	9.7	0.4
LU	0.3%	3,942	8,333	-4,391	5.7	7.6	-1.9
LV	0.4%	3,900	9,858	-5,958	8.7	8.6	0.1
MT	0.1%	1,432	2,653	-1,221	11.1	9.6	1.5
NL	5.4%	133,747	148,259	-14,512	7.7	9.4	-1.7
PT	2.2%	53,853	59,211	-5,358	7.5	7.9	-0.4
SI	0.4%	11,177	12,181	-1,004	9.3	9.4	-0.1
SK	1.1%	18,570	28,973	-10,403	7.8	8.5	-0.8
SNAT	10.0%	286,168	274,140	12,028	8.2	9.5	-1.3
<b>Total / Avg.</b>	<b>100.0%</b>	<b>2,741,404</b>	<b>2,741,404</b>	<b>0</b>	<b>7.3</b>	<b>8.5</b>	<b>-1.3</b>

<sup>1</sup> Based on the ECB capital key, adjusted to include supras and the disqualification of Greece<sup>2</sup> Based on the adjusted distribution key<sup>3</sup> Weighted average time to maturity of PSPP portfolio holdings<sup>4</sup> Weighted average time to maturity of the bonds eligible for purchasing under the PSPP

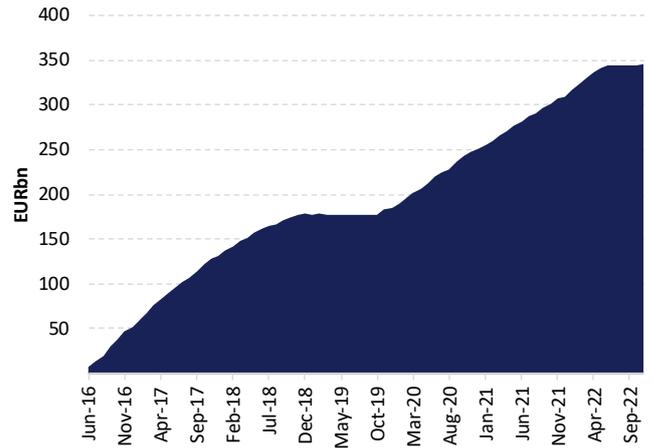
Source: ECB, NORD/LB Markets Strategy &amp; Floor Research

**Corporate Sector Purchase Programme (CSPP)**

**Weekly purchases**

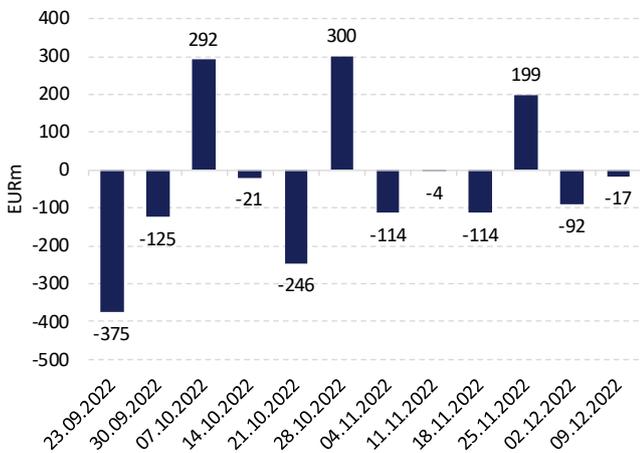


**Development of CSPP volume**

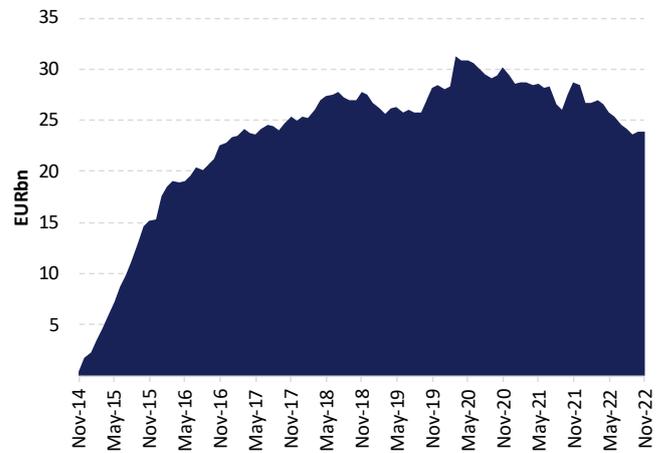


**Asset-Backed Securities Purchase Programme (ABSPP)**

**Weekly purchases**



**Development of ABSPP volume**



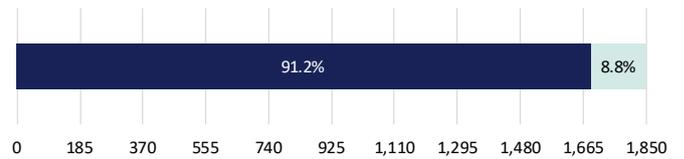
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

**Pandemic Emergency Purchase Programme (PEPP)**

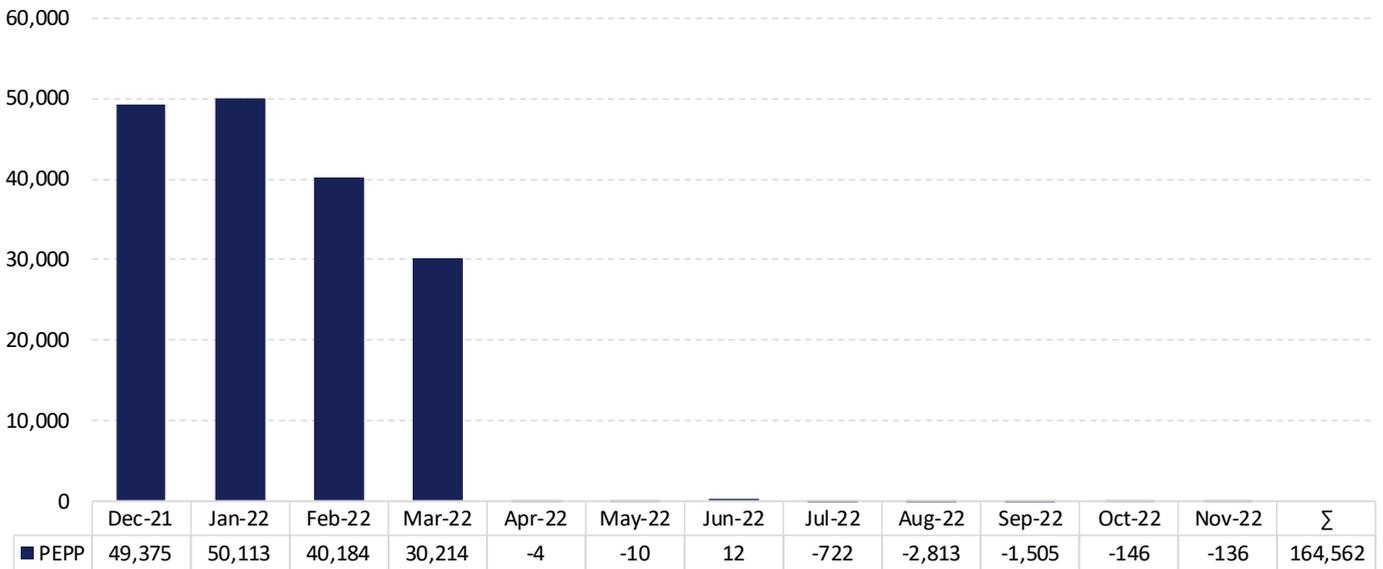
**Holdings (in EURm)**

	PEPP
Oct-22	1,712,889
Nov-22	1,712,753
<b>Δ (net purchases)</b>	<b>-136</b>

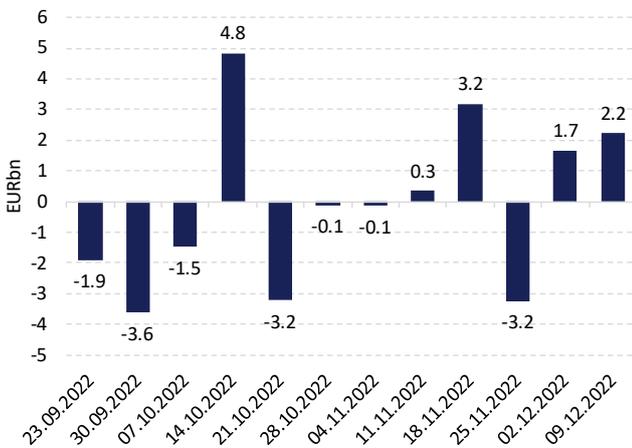
**Invested share of PEPP envelope (in EURbn)**



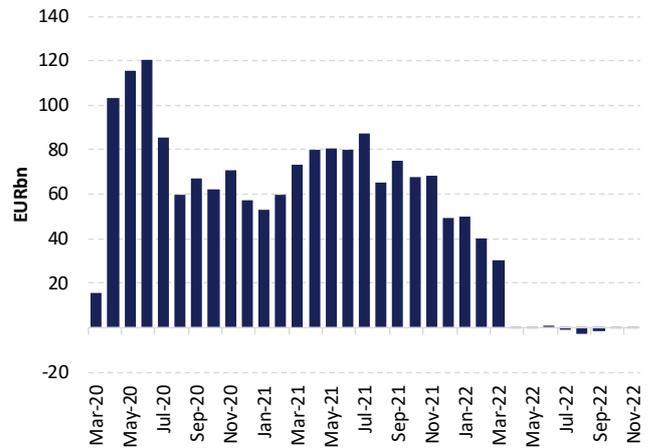
**Monthly net purchases (in EURm)**



**Weekly purchases**



**Development of PEPP volume**

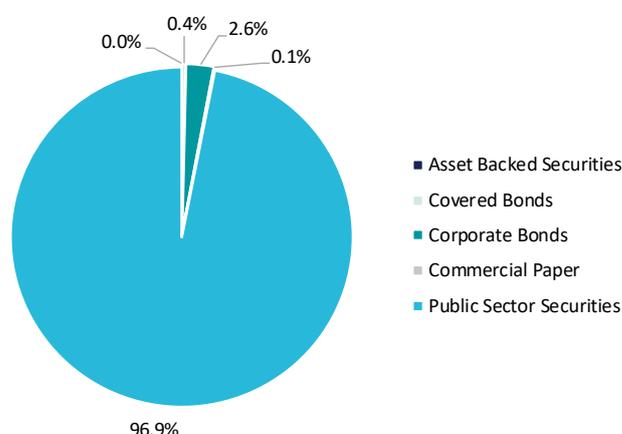
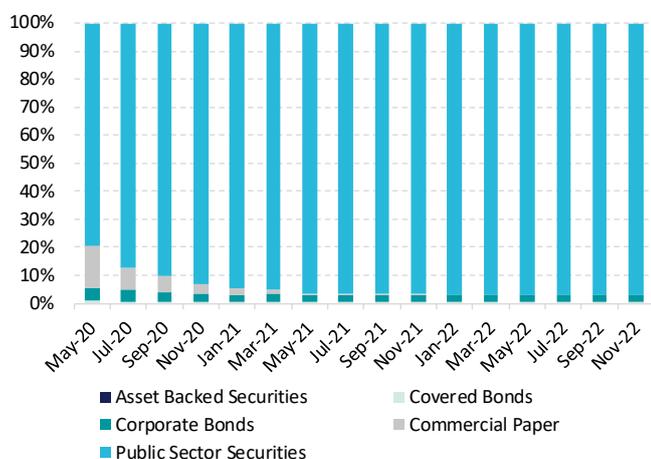


Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

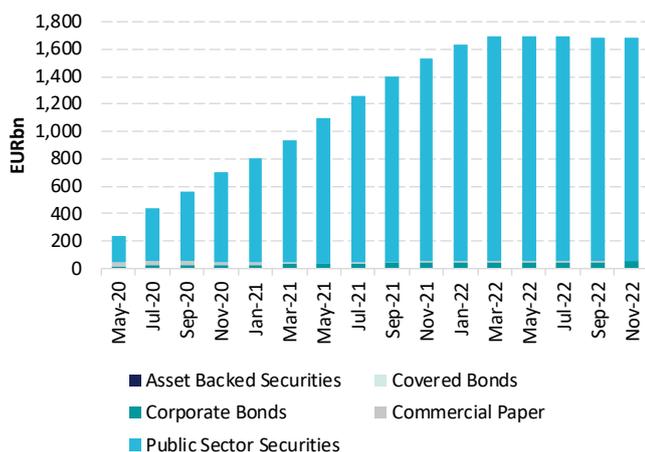
**Holdings under the PEPP (in EURm)**

	Asset-backed Securities	Covered Bonds	Corporate Bonds	Commercial Paper	Public Sector Securities	PEPP
Sep-22	0	6,056	43,233	2,871	1,631,176	1,683,336
Nov-22	0	6,056	44,012	2,091	1,630,895	1,683,054
Δ (net purchases)	0	0	+780	-780	-281	-282

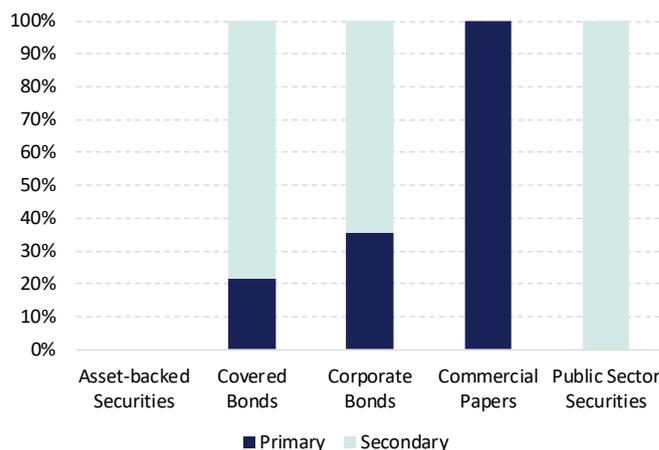
**Portfolio structure**



**Portfolio development**



**Share of primary and secondary market holdings**



**Breakdown of private sector securities under the PEPP**

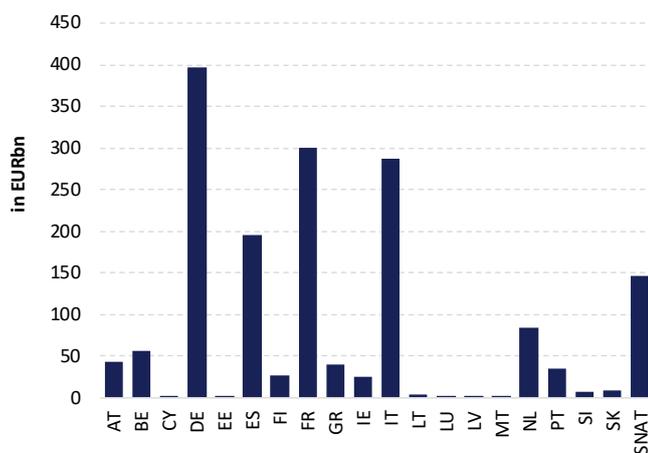
	Asset-backed securities		Covered bonds		Corporate bonds		Commercial paper	
	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary
Holdings in EURm	0	0	1,298	4,758	15,407	27,826	2,873	0
Share	0.0%	0.0%	21.4%	78.6%	35.6%	64.4%	100.0%	0.0%

Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

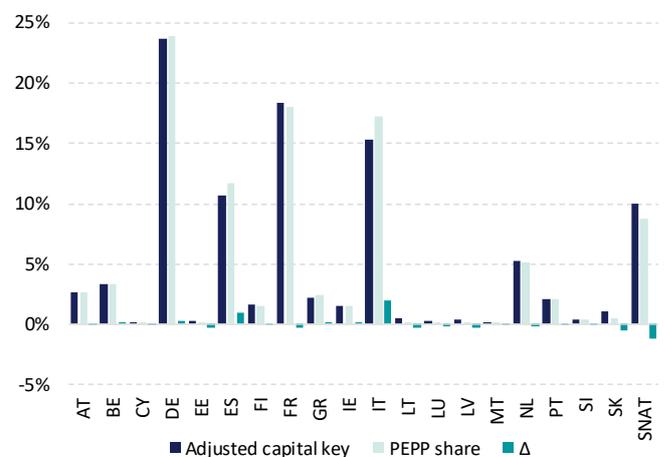
## Breakdown of public sector securities under the PEPP

Jurisdiction	Holdings (in EURm)	Adj. distribution key <sup>1</sup>	PEPP share	Deviations from the adj. distribution key <sup>2</sup>	Current WAM <sup>3</sup> (in years)	WAM of eligible universe <sup>4</sup> (in years)	Difference (in years)
AT	43,449	2.6%	2.6%	0.0%	7.7	7.3	0.3
BE	56,175	3.3%	3.4%	0.1%	6.4	9.5	-3.1
CY	2,487	0.2%	0.1%	0.0%	8.4	8.3	0.2
DE	397,704	23.7%	24.0%	0.2%	6.8	6.8	0.0
EE	256	0.3%	0.0%	-0.2%	7.5	7.5	0.1
ES	194,758	10.7%	11.7%	1.0%	7.4	7.4	0.0
FI	26,208	1.7%	1.6%	-0.1%	7.6	7.7	-0.1
FR	299,751	18.4%	18.1%	-0.3%	7.8	7.7	0.0
GR	39,607	2.2%	2.4%	0.2%	8.2	9.6	-1.4
IE	25,825	1.5%	1.6%	0.0%	8.8	9.7	-0.9
IT	287,027	15.3%	17.3%	2.0%	7.2	6.9	0.4
LT	3,222	0.5%	0.2%	-0.3%	9.7	8.9	0.8
LU	1,898	0.3%	0.1%	-0.2%	6.0	6.7	-0.7
LV	1,890	0.4%	0.1%	-0.2%	8.1	7.7	0.4
MT	606	0.1%	0.0%	-0.1%	10.6	8.8	1.8
NL	84,558	5.3%	5.1%	-0.2%	7.7	8.6	-0.9
PT	34,425	2.1%	2.1%	0.0%	6.8	7.2	-0.5
SI	6,586	0.4%	0.4%	0.0%	8.7	9.1	-0.4
SK	7,966	1.0%	0.5%	-0.6%	8.3	7.9	0.4
SNAT	145,915	10.0%	8.8%	-1.2%	10.4	8.8	1.6
<b>Total / Avg.</b>	<b>1,660,313</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>7.6</b>	<b>7.6</b>	<b>0.0</b>

## Distribution of public sector assets by jurisdiction



## Deviations from the adjusted distribution key

<sup>1</sup> Based on the ECB capital key, adjusted to include supras <sup>2</sup> Based on the adjusted distribution key<sup>3</sup> Current WAM of public sector securities holdings under the PEPP <sup>4</sup> WAM of eligible universe of public sector securities holdings under the PEPP

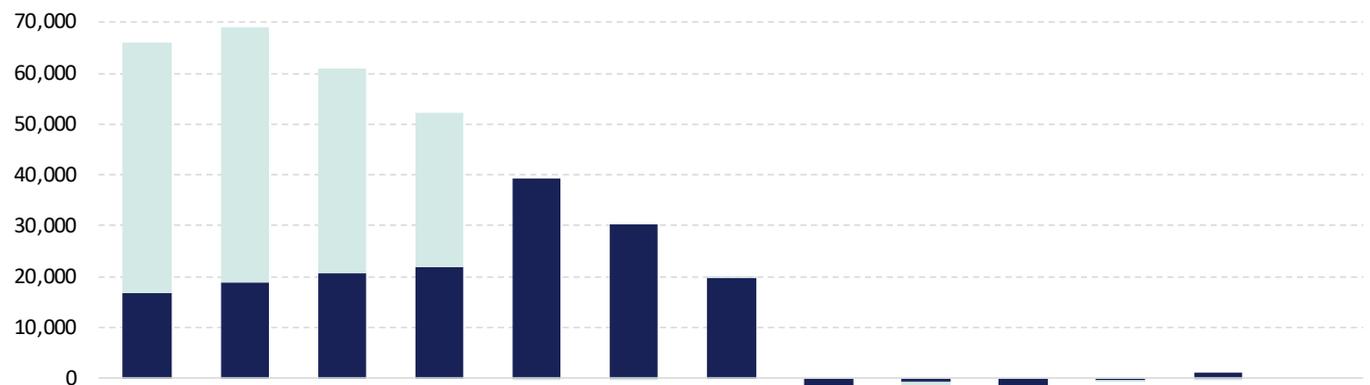
Source: ECB, Bloomberg, NORD/LB Markets Strategy &amp; Floor Research

**Aggregated purchase activity under APP and PEPP**

**Holdings (in EURm)**

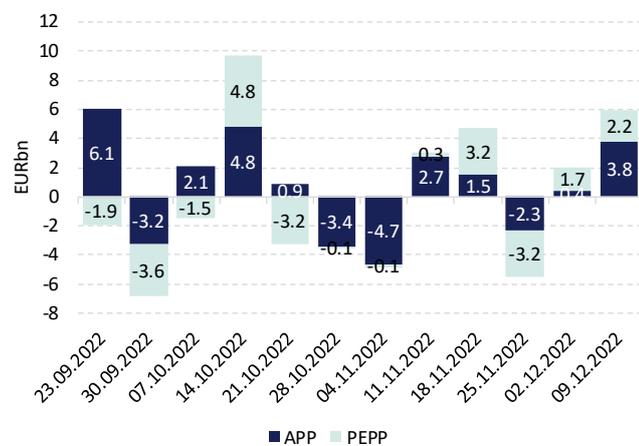
	APP	PEPP	APP & PEPP
<b>Oct-22</b>	3,255,936	1,712,889	4,968,825
<b>Nov-22</b>	3,257,080	1,712,753	4,969,833
<b>Δ</b>	+1,145	-136	+1,009

**Monthly net purchases (in EURm)**

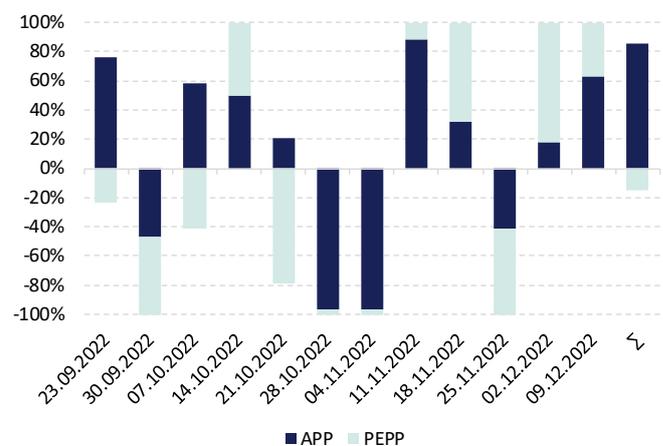


	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Σ
<b>Σ</b>	65,971	68,951	60,882	52,143	39,393	30,222	19,734	-2,481	-3,469	-3,389	-466	1,009	328,500
<b>PEPP</b>	49,375	50,113	40,184	30,214	-4	-10	12	-722	-2,813	-1,505	-146	-136	164,562
<b>APP</b>	16,596	18,838	20,698	21,929	39,397	30,232	19,722	-1,759	-656	-1,884	-320	1,145	163,938

**Weekly purchases**



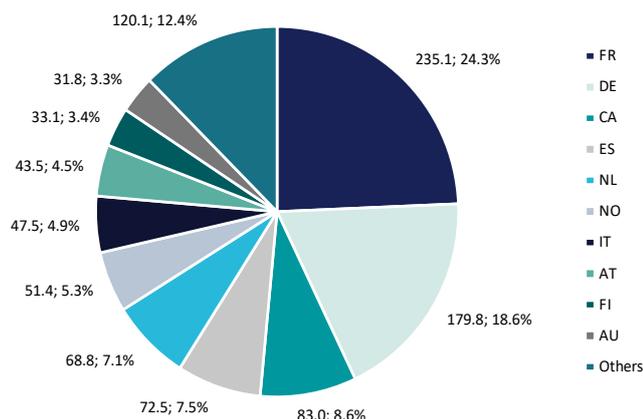
**Distribution of weekly purchases**



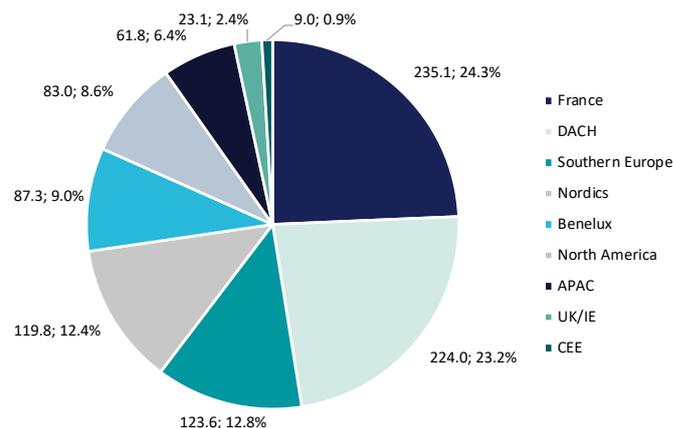
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

# Charts & Figures Covered Bonds

EUR benchmark volume by country (in EURbn)



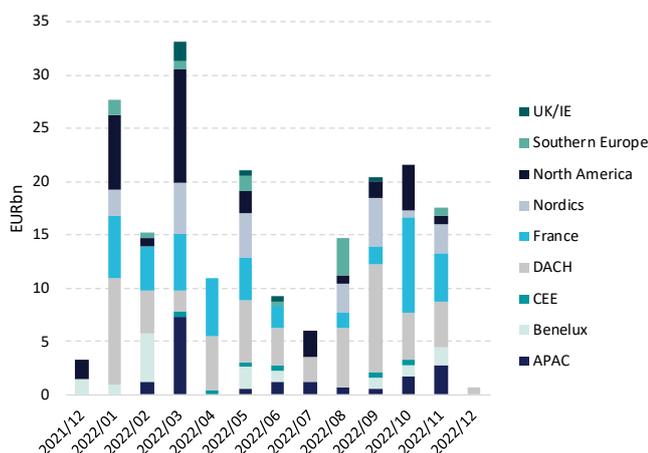
EUR benchmark volume by region (in EURbn)



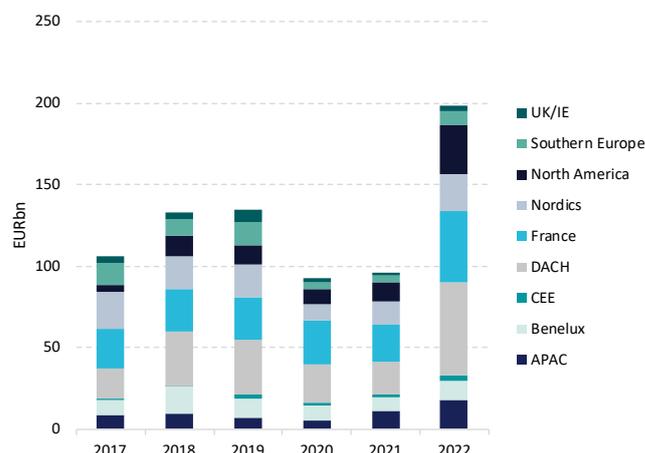
Top-10 jurisdictions

Rank	Country	Amount outst. (EURbn)	No. of BMKs	There of ESG BMKs	Avg. issue size (EURbn)	Avg. initial maturity (in years)	Avg. mod. Duration (in years)	Avg. coupon (in %)
1	FR	235.1	227	15	0.95	9.8	5.3	0.97
2	DE	179.8	256	26	0.65	8.3	4.4	0.68
3	CA	83.0	64	0	1.26	5.6	2.9	0.53
4	ES	72.5	58	5	1.14	11.6	3.6	1.77
5	NL	68.8	70	1	0.92	11.3	7.0	0.81
6	NO	51.4	61	11	0.84	7.2	3.7	0.53
7	IT	47.5	58	2	0.79	9.2	3.8	1.24
8	AT	43.5	77	3	0.56	9.1	5.7	0.83
9	FI	33.1	35	3	0.94	7.3	3.7	0.75
10	AU	31.8	32	0	0.99	7.8	3.9	1.14

EUR benchmark issue volume by month

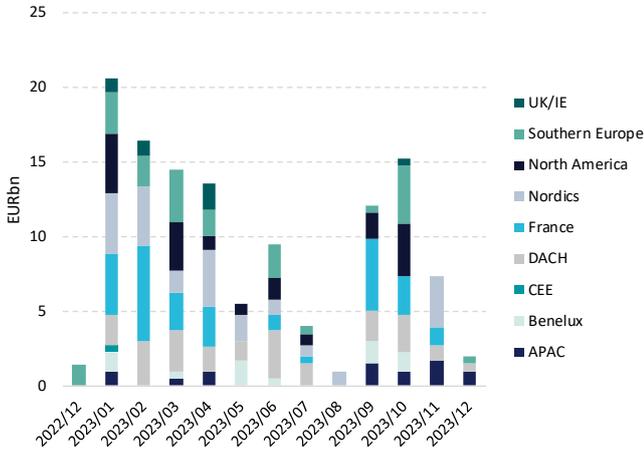


EUR benchmark issue volume by year

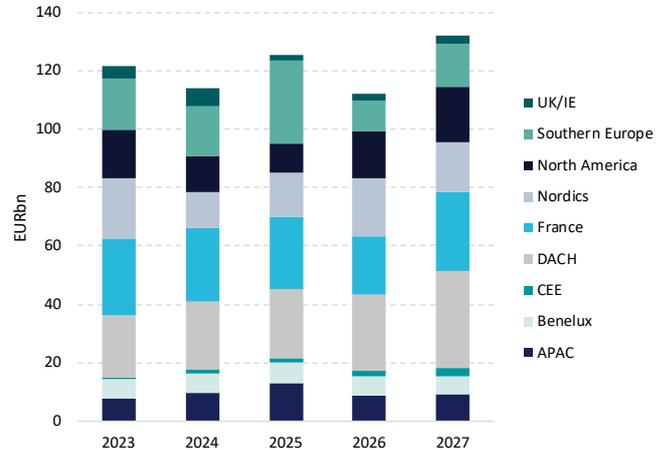


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

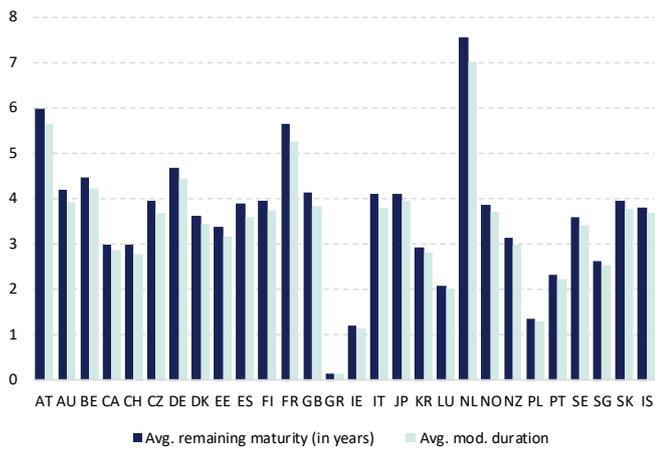
**EUR benchmark maturities by month**



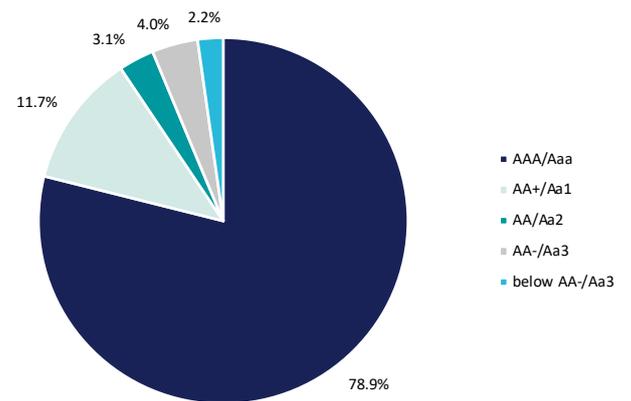
**EUR benchmark maturities by year**



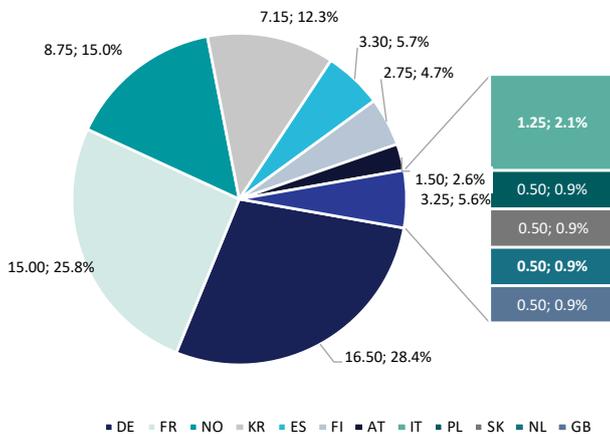
**Modified duration and time to maturity by country**



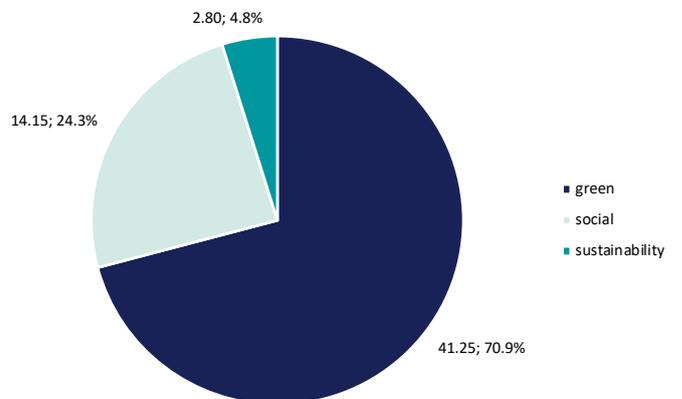
**Rating distribution (volume weighted)**



**EUR benchmark volume (ESG) by country (in EURbn)**

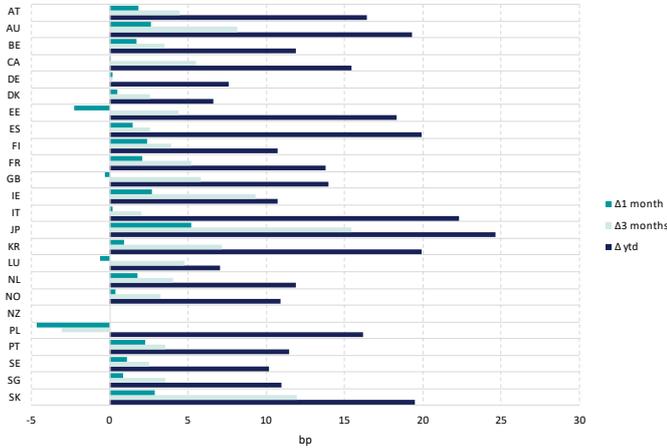


**EUR benchmark volume (ESG) by type (in EURbn)**

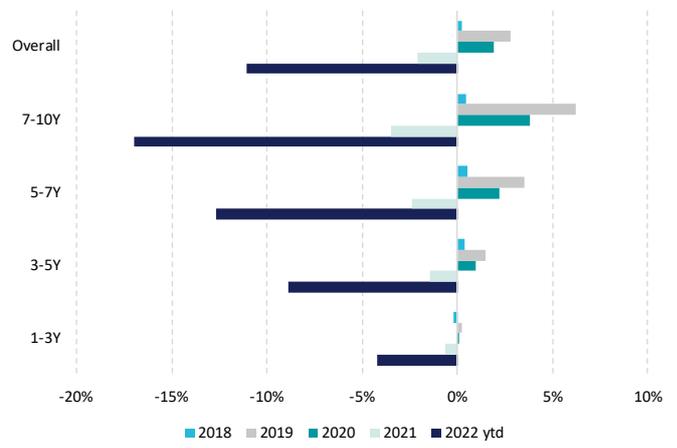


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

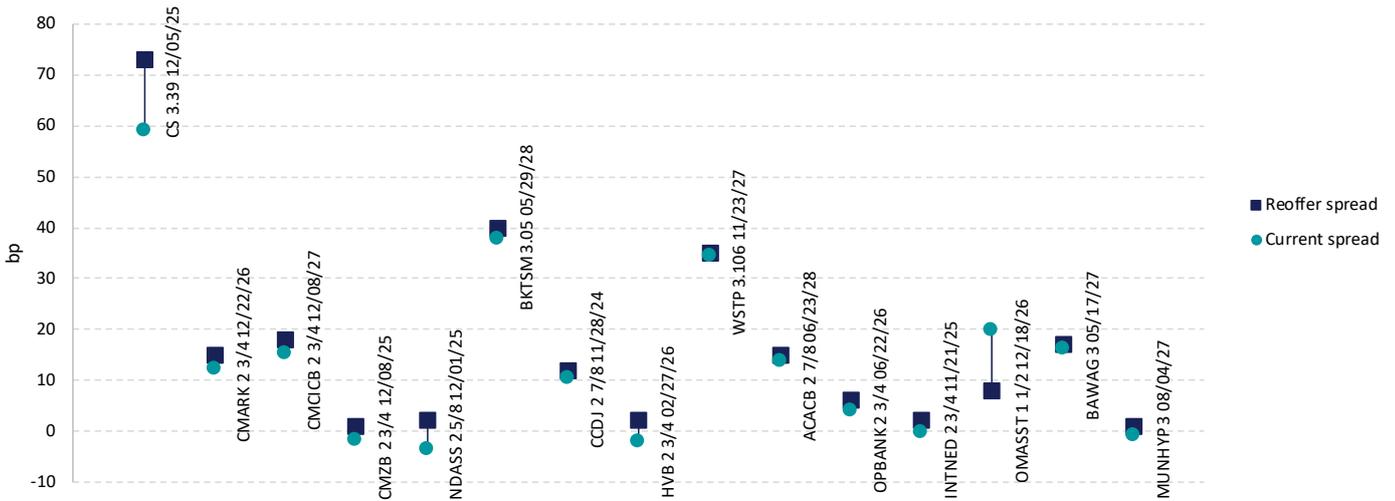
**Spread development by country**



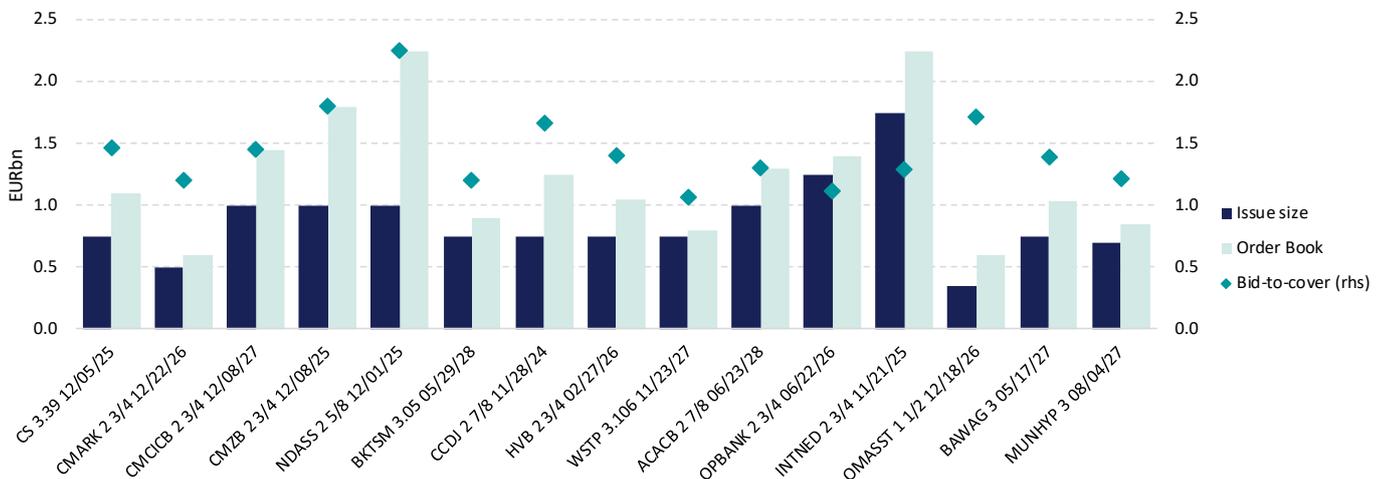
**Covered bond performance (Total return)**



**Spread development (last 15 issues)**

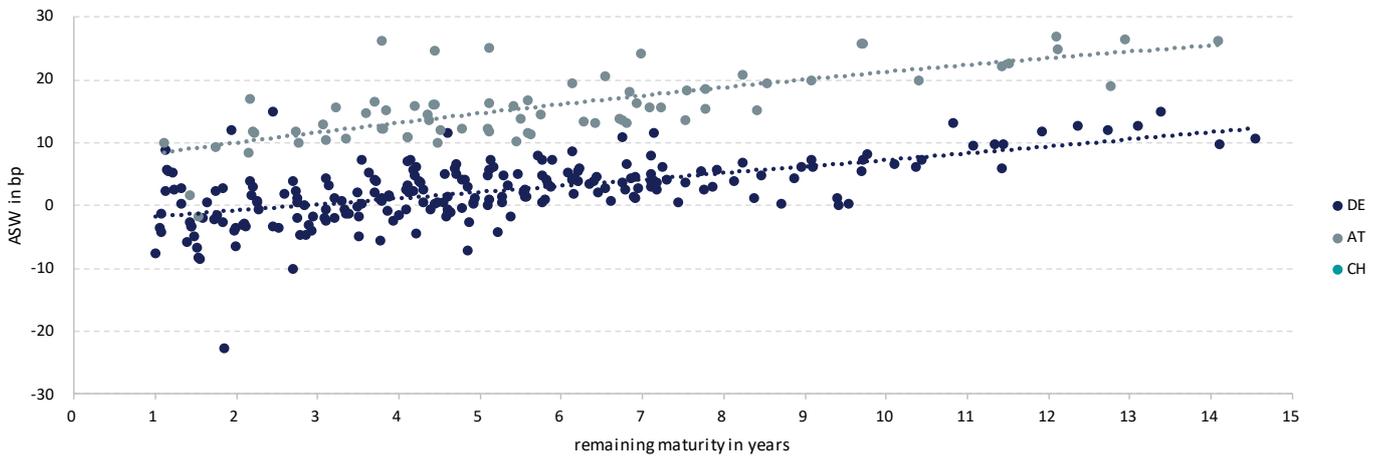


**Order books (last 15 issues)**

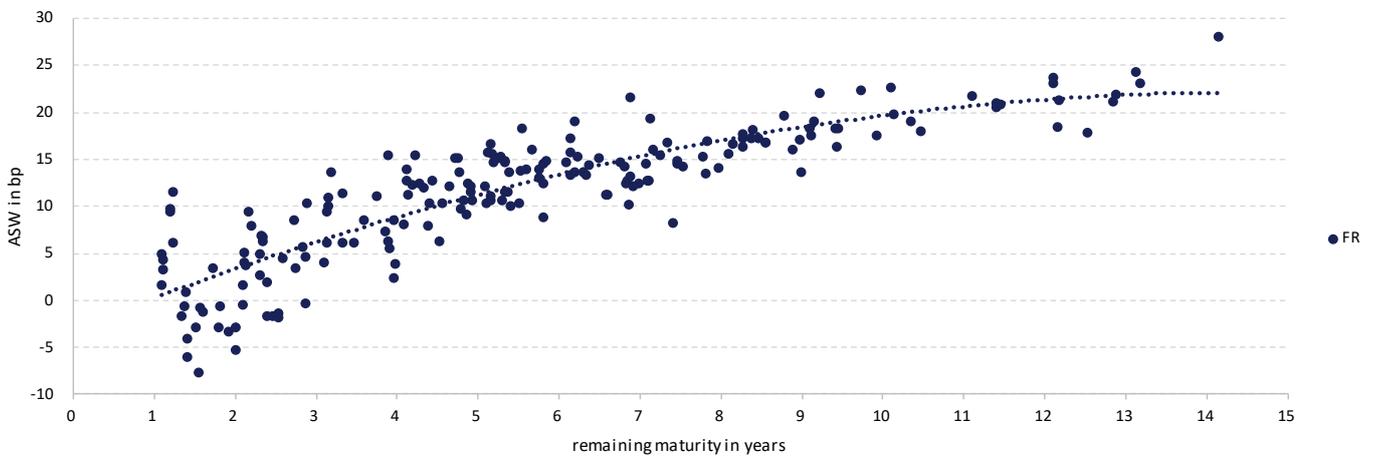


**Spread overview<sup>1</sup>**

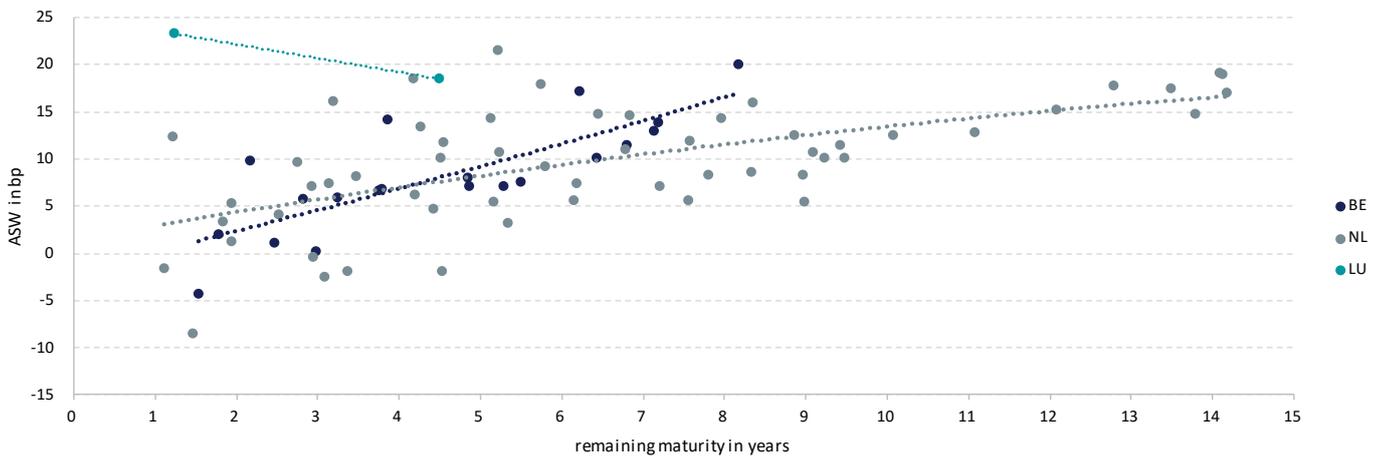
**DACH** 



**France** 

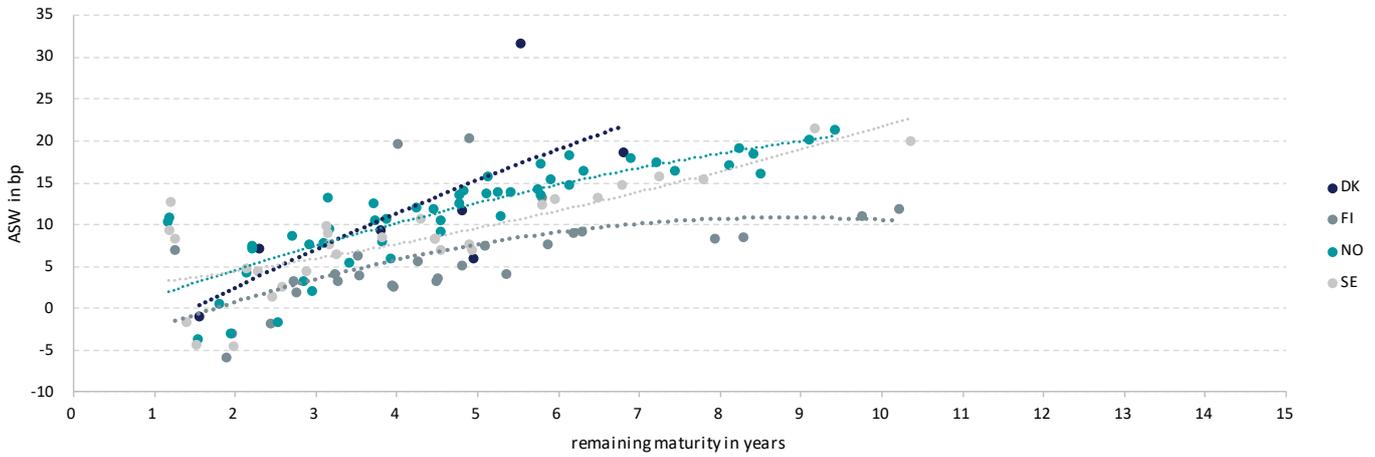


**Benelux** 

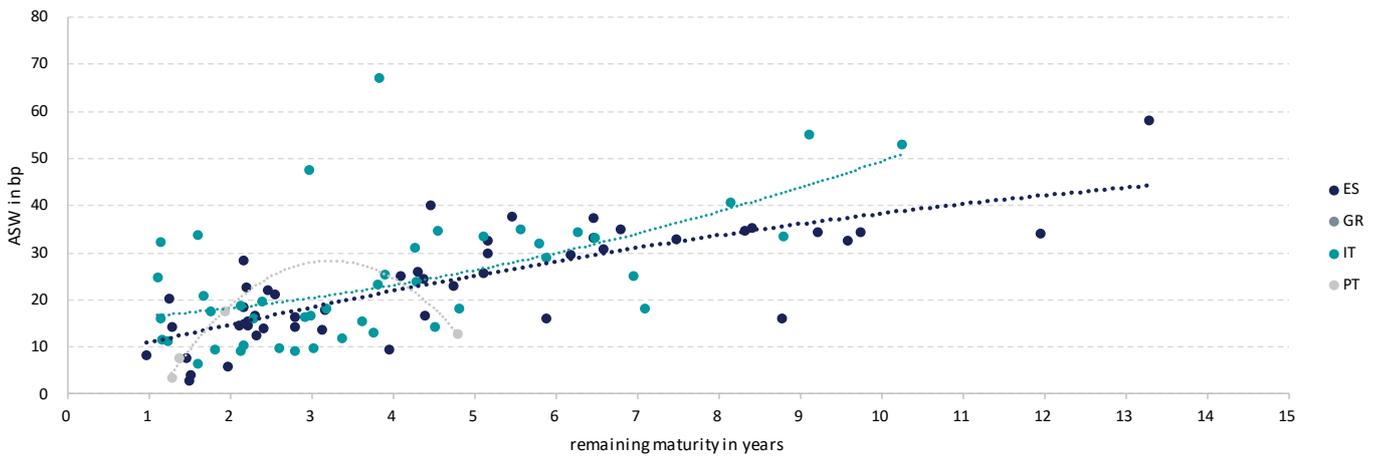


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research <sup>1</sup>Time to maturity 1 ≤ y ≤ 15

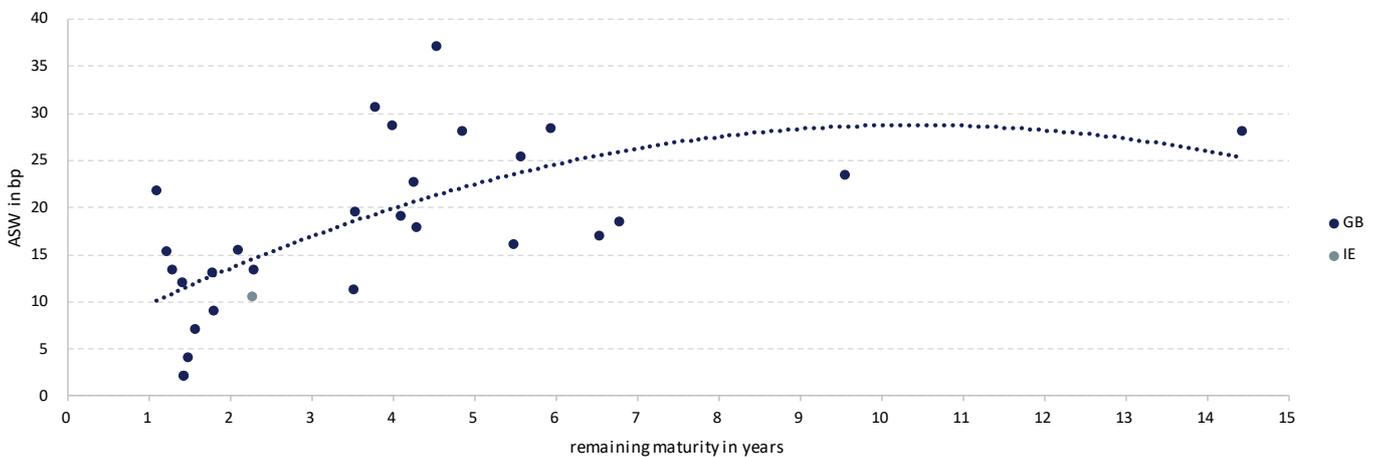
**Nordics** 🇩🇰 🇫🇮 🇳🇴 🇸🇪



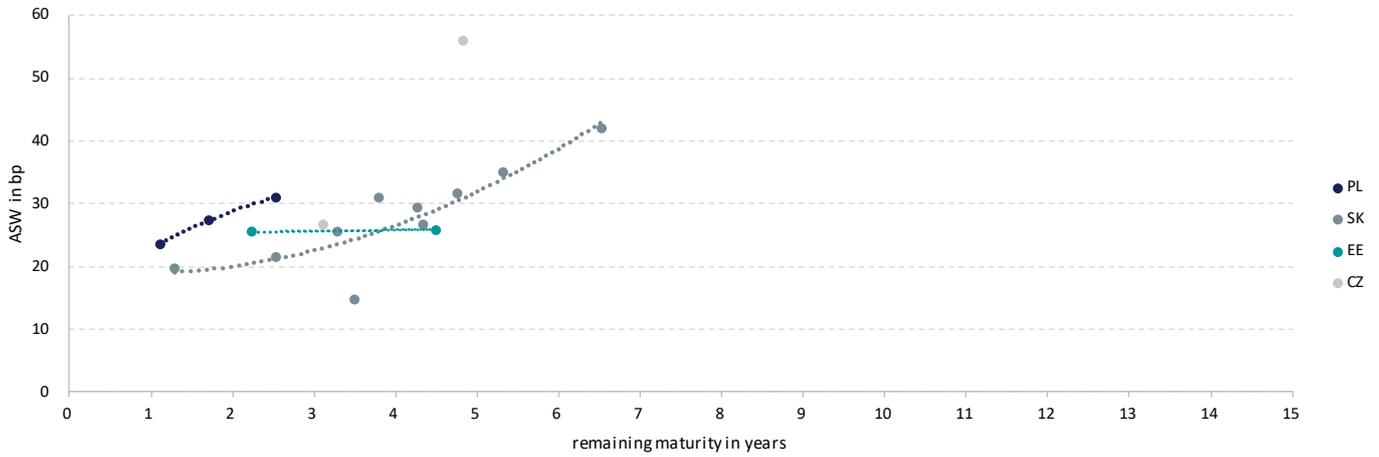
**Southern Europe** 🇪🇸 🇬🇷 🇮🇹 🇵🇹



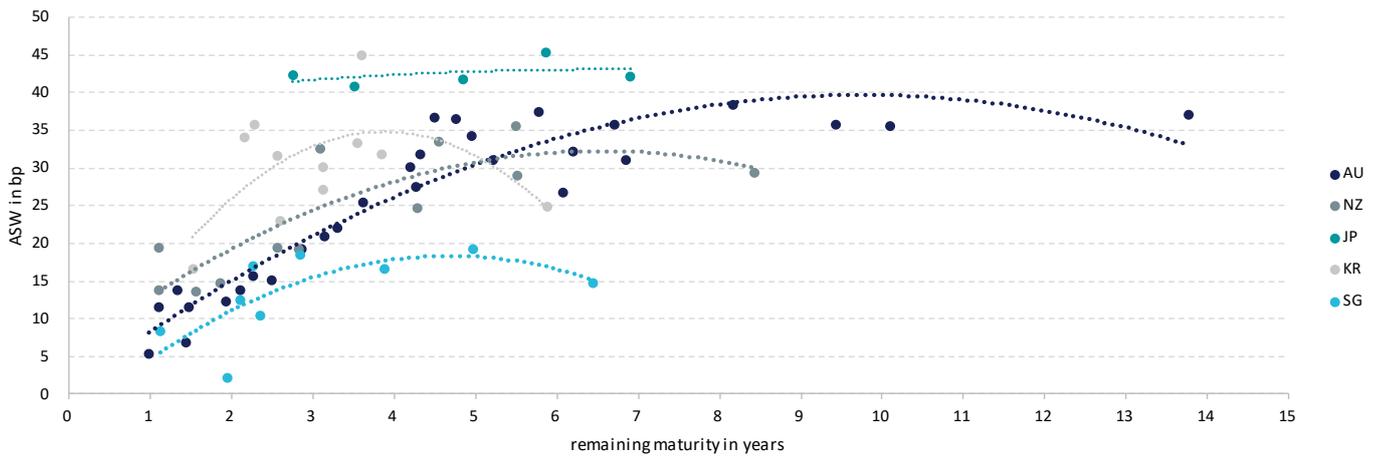
**UK/IE** 🇬🇧 🇮🇪



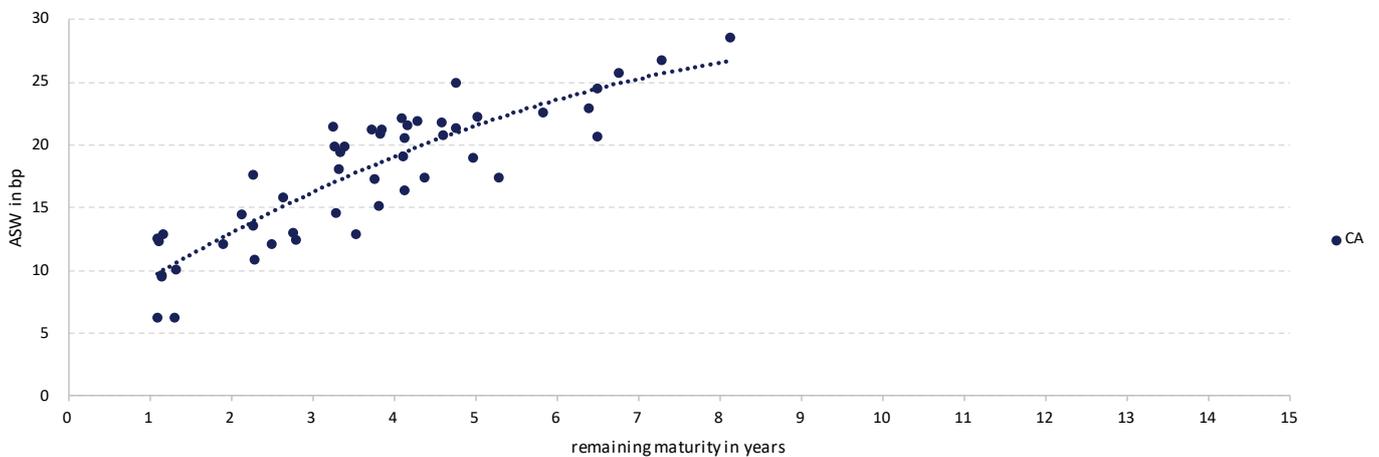
**CEE** 



**APAC** 



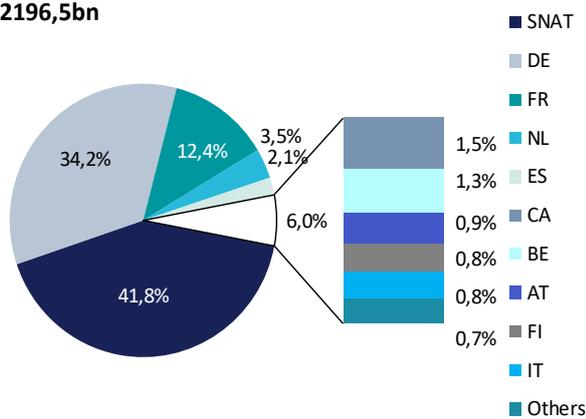
**North America** 



## Charts & Figures SSA/Public Issuers

### Outstanding volume (bmk)

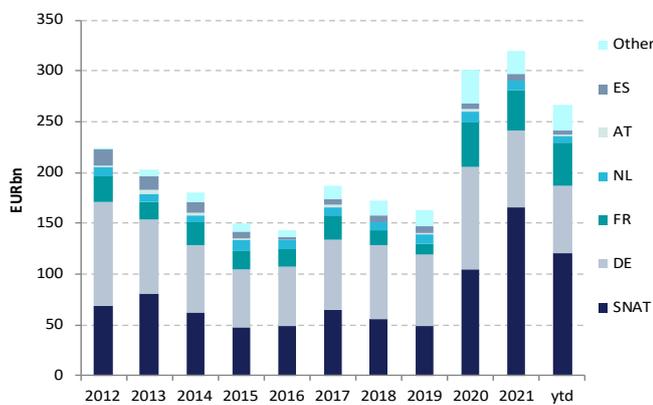
EUR 2196,5bn



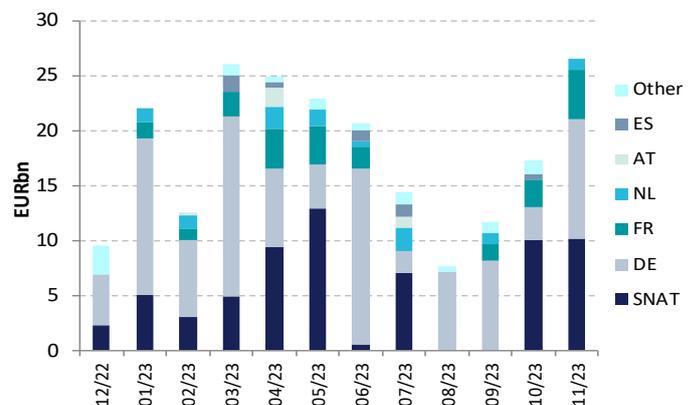
### Top 10 countries (bmk)

Country	Vol. (€bn)	No. of bonds	ØVol. (€bn)	Vol. weight. ØMod. Dur.
SNAT	918,5	218	4,2	8,3
DE	751,8	558	1,3	6,4
FR	271,8	180	1,5	6,3
NL	77,2	69	1,1	6,6
ES	45,6	60	0,8	4,8
CA	32,6	23	1,4	4,6
BE	28,0	31	0,9	12,0
AT	19,8	23	0,9	4,6
FI	18,5	22	0,8	5,5
IT	16,8	20	0,8	5,0

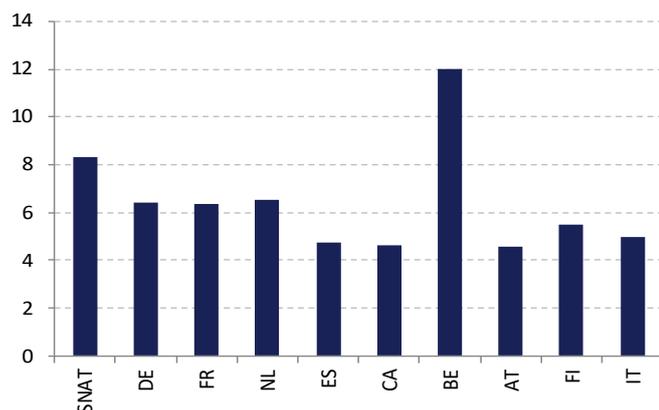
### Issue volume by year (bmk)



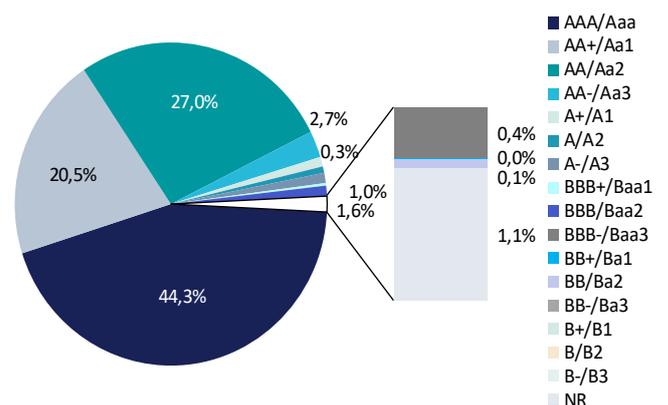
### Maturities next 12 months (bmk)



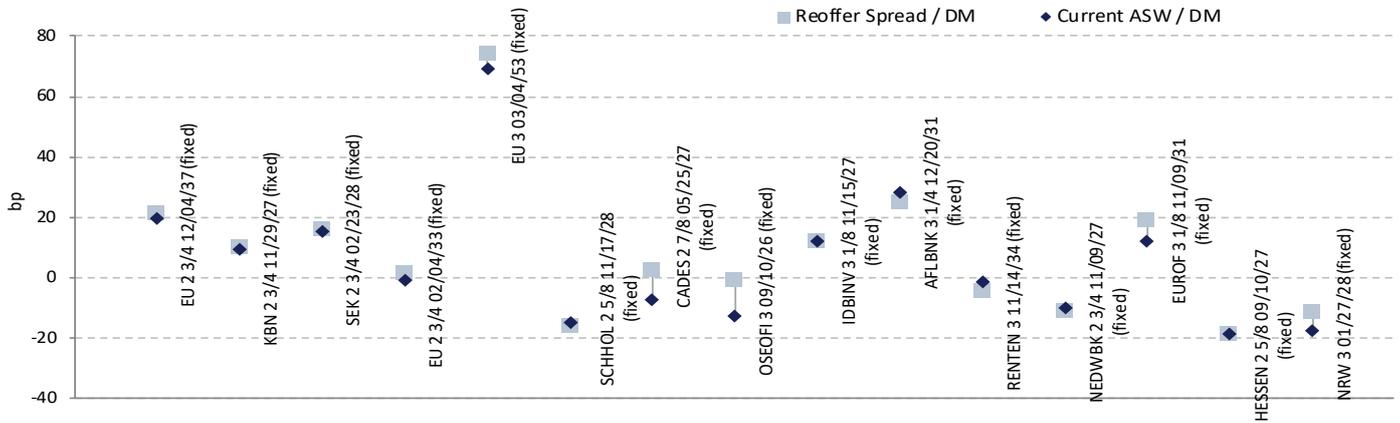
### Avg. mod. duration by country (vol. weighted)



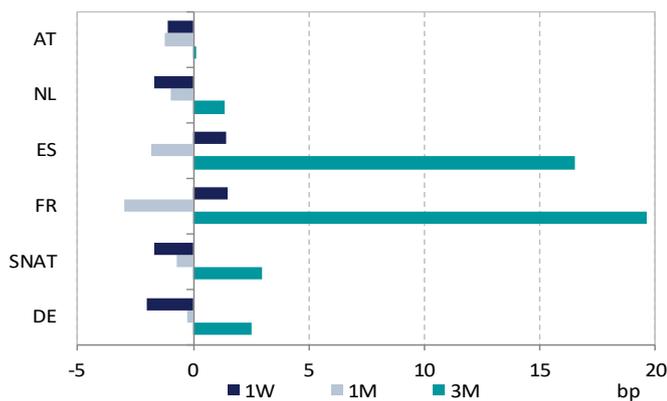
### Rating distribution (vol. weighted)



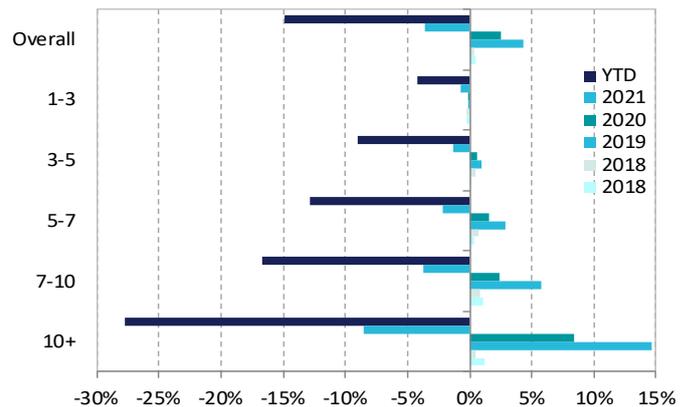
### Spread development (last 15 issues)



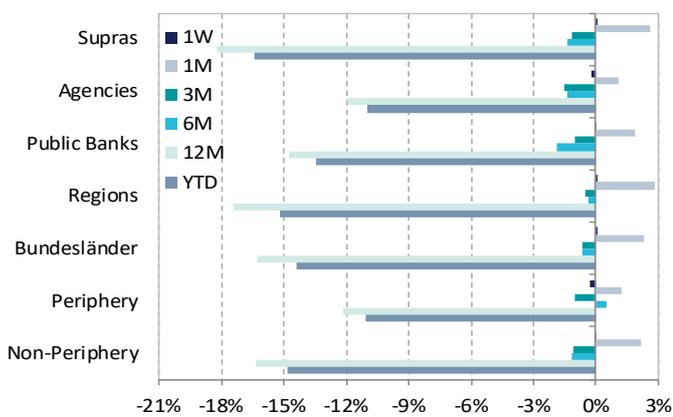
### Spread development by country



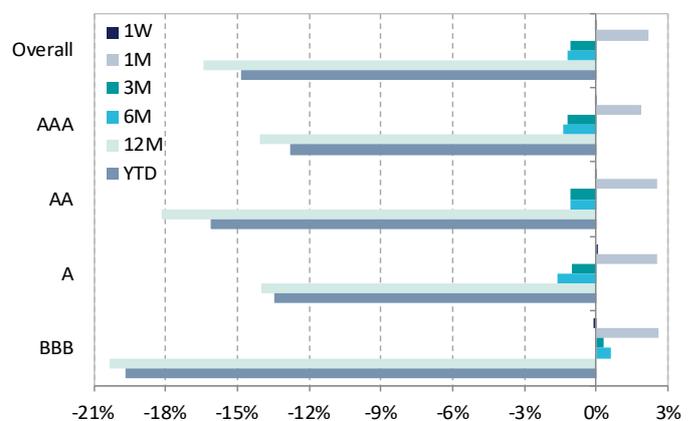
### Performance (total return)



### Performance (total return) by segments

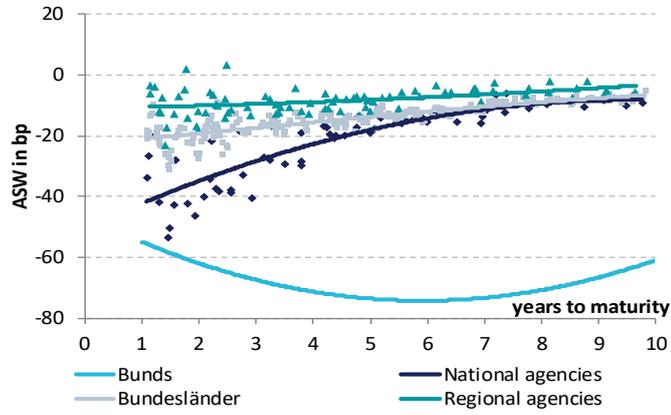


### Performance (total return) by rating

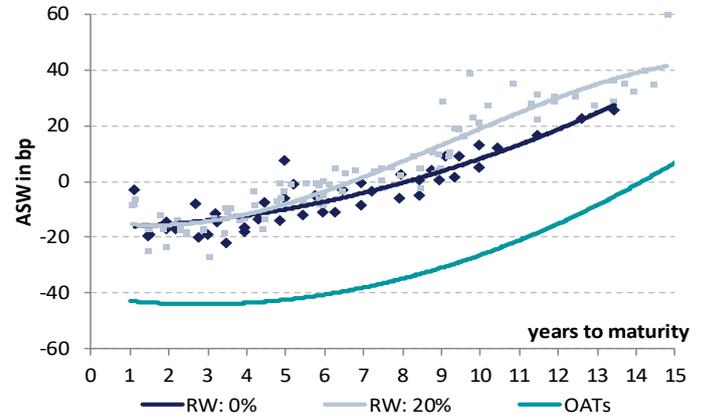


Source: Bloomberg, NORD/LB Markets Strategy & Floor Research

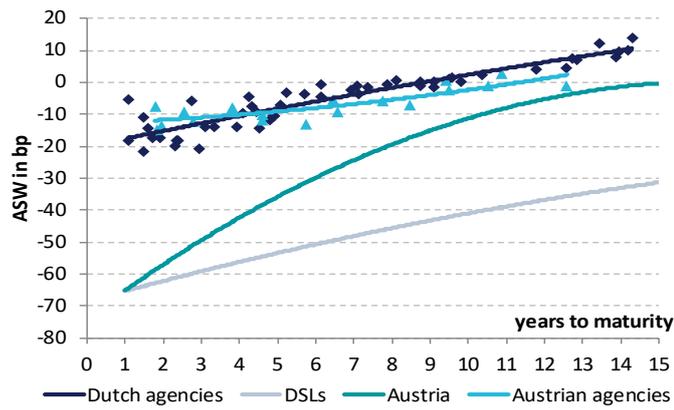
**Germany (by segments)**



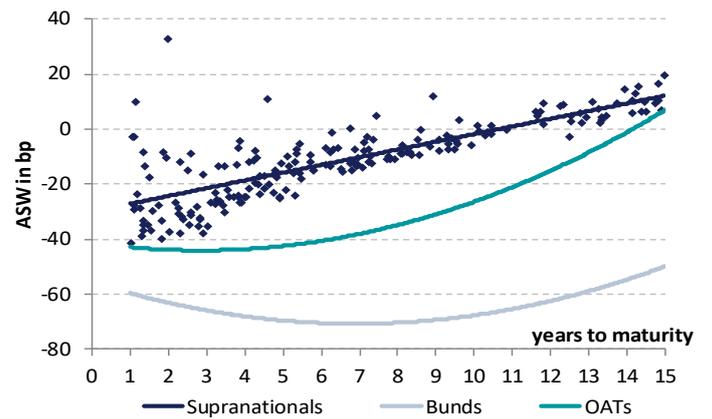
**France (by risk weight)**



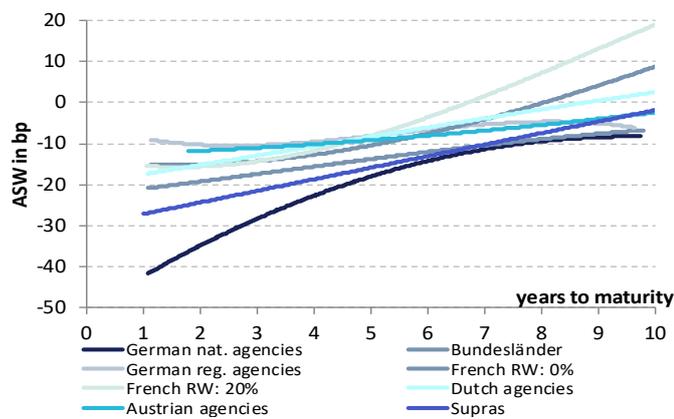
**Netherlands & Austria**



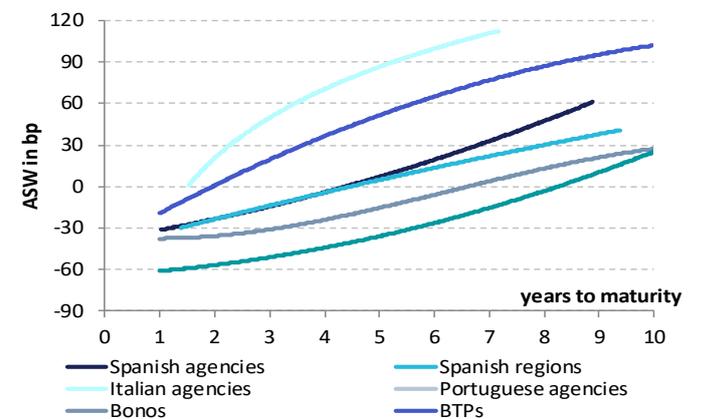
**Supranationals**



**Core**



**Periphery**



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

## Appendix

### Overview of latest Covered Bond & SSA View editions

Publication	Topics
<a href="#">38/2022 ♦ 07 December</a>	<ul style="list-style-type: none"> <li>▪ ECB preview – next hike but total assets (finally) reduced?!</li> <li>▪ Covered bond jurisdictions in the spotlight: a look at Spain</li> </ul>
<a href="#">37/2022 ♦ 30 November</a>	<ul style="list-style-type: none"> <li>▪ Transparency requirements §28 PfandBG Q3 2022</li> <li>▪ ECB repo collateral rules and their implications for Supranationals &amp; Agencies</li> </ul>
<a href="#">36/2022 ♦ 23 November</a>	<ul style="list-style-type: none"> <li>▪ ESG covered bonds - another record year</li> <li>▪ Current LCR classifications for our SSA coverage</li> </ul>
<a href="#">35/2022 ♦ 16 November</a>	<ul style="list-style-type: none"> <li>▪ Covered bond jurisdictions in the spotlight: a look at Austria</li> <li>▪ Development of the German property market</li> <li>▪ EIB goes Blockchain... again!</li> </ul>
<a href="#">34/2022 ♦ 09 November</a>	<ul style="list-style-type: none"> <li>▪ Covered bond jurisdictions in the spotlight: a look at Norway</li> <li>▪ Tenth edition of the NORD/LB Issuer Guide Covered Bonds</li> <li>▪ SSA primary stats ytd before the final sprint</li> </ul>
<a href="#">33/2022 ♦ 26 October</a>	<ul style="list-style-type: none"> <li>▪ Repayment structures on the covered bond market: EU harmonisation project consigns hard bullets to the shadows</li> <li>▪ The debt brake at Laender level</li> </ul>
<a href="#">32/2022 ♦ 19 October</a>	<ul style="list-style-type: none"> <li>▪ ECB preview: +75bp and the balance sheet question</li> <li>▪ EBA Risk Dashboard paints a robust picture in Q2 2022</li> <li>▪ An overview of the German Laender</li> </ul>
<a href="#">31/2022 ♦ 12 October</a>	<ul style="list-style-type: none"> <li>▪ The covered bond rating approach of S&amp;P</li> <li>▪ Benchmark indices for German Laender</li> </ul>
<a href="#">30/2022 ♦ 28 September</a>	<ul style="list-style-type: none"> <li>▪ Focus on covered bond jurisdictions: Singapore in the spotlight</li> <li>▪ German Laender: more ESG issues on the horizon?</li> </ul>
<a href="#">29/2022 ♦ 21 September</a>	<ul style="list-style-type: none"> <li>▪ ECBC publishes annual statistics for 2021</li> <li>▪ Update: Gemeinschaft deutscher Laender (Ticker: LANDER)</li> </ul>
<a href="#">28/2022 ♦ 07 September</a>	<ul style="list-style-type: none"> <li>▪ Primary market: A little more to come!</li> <li>▪ ECB: PEPP visibly active as first line of defence</li> </ul>
<a href="#">27/2022 ♦ 31 August</a>	<ul style="list-style-type: none"> <li>▪ ECB rate hikes: minimum of +100bp still to come by year-end</li> <li>▪ Australia: Macquarie returns to the EUR benchmark segment</li> </ul>
<a href="#">26/2022 ♦ 24 August</a>	<ul style="list-style-type: none"> <li>▪ Development of the German property market</li> <li>▪ Transparency requirements §28 PfandBG Q2/2022</li> </ul>
<a href="#">25/2022 ♦ 27 July</a>	<ul style="list-style-type: none"> <li>▪ ECB likes abbreviations: After OMT and SMP, we now have TPI</li> <li>▪ Covereds vs. Senior Unsecured Bonds</li> </ul>
<a href="#">24/2022 ♦ 20 July</a>	<ul style="list-style-type: none"> <li>▪ A brief spotlight on the EUR sub-benchmark segment</li> <li>▪ Deutsche Hypo real estate climate: index falls again</li> </ul>
<a href="#">23/2022 ♦ 13 July</a>	<ul style="list-style-type: none"> <li>▪ ECB preview: might the ECB go slightly further?</li> <li>▪ EBA Report on Asset Encumbrance: levels increasing</li> </ul>

## Appendix

### Publication overview

#### Covered Bonds:

[Issuer Guide Covered Bonds 2022](#)

[Covered Bond Directive: Impact on risk weights and LCR levels](#)

[Risk weights and LCR levels of covered bonds](#) (updated semi-annually)

[Transparency requirements §28 PfandBG Q3/2022](#) (quarterly update)

[Covered bonds as eligible collateral for central banks](#)

#### SSA/Public Issuers:

[Issuer Guide – German Laender 2022](#)

[Issuer Guide – German Agencies 2022](#)

[Issuer Guide – Dutch Agencies 2022](#)

[Beyond Bundeslaender: Greater Paris \(IDF/VDP\)](#)

[Spotlight on Belgian regions](#)

[Spotlight on Spanish regions](#)

#### Fixed Income Specials:

[ESG-Update 2022](#)

[ECB interest rate decision: delivered as expected?](#)

[ECB acts as the 'House of Hikes' - or: Winter is coming!](#)

[ECB frontloads rate hike by +50bp and breaches pre-commitment](#)

[ECB ready for lift-off: Every journey starts with a first step](#)

## Appendix

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Sales Sparkassen & Regionalbanken	+49 511 9818-9400
Sales MM/FX	+49 511 9818-9460
Sales Europe	+352 452211-515

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

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Liquidity Management	+49 511 9818-9620 +49 511 9818-9650

#### Trading

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Governments	+49 511 9818-9660
Länder/Regionen	+49 511 9818-9550
Frequent Issuers	+49 511 9818-9640

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