



Covered Bond & SSA View

NORD/LB Markets Strategy & Floor Research

Agenda

Market overview	
Covered Bonds	3
SSA/Public Issuers	8
Covered Bonds – Review of January 2022: a reversion to old patterns does not always have to be bad	11
SSA – New year, new hope? Less oomph to kick off the new year	16
ECB tracker	
Asset Purchase Programme (APP)	19
Pandemic Emergency Purchase Programme (PEPP)	24
Aggregated purchase activity under APP and PEPP	27
Charts & Figures	
Covered Bonds	28
SSA/Public Issuers	34
Overview of latest Covered Bond & SSA View editions	37
Publication overview	38
Contacts at NORD/LB	39

Floor analysts:

Melanie Kiene, CIAA

Covered Bonds

melanie.kiene@nordlb.de

Dr Frederik Kunze

Covered Bonds

frederik.kunze@nordlb.de

Dr Norman Rudschuck, CIAA

SSA/Public Issuers

norman.rudschuck@nordlb.de

NORD/LB:

[Markets Strategy & Floor Research](#)

NORD/LB:

[Covered Bond Research](#)

NORD/LB:

[SSA/Public Issuer Research](#)

Bloomberg:

[RESP NRDR <GO>](#)

Market overview

Covered Bonds

Authors: Melanie Kiene, CIAA // Dr Frederik Kunze

Primary market: a January that is finally worth reviewing again

Despite the fact that primary market activities waned again over the final few trading days in January, the first month of the year featured issuance volumes that finally made it worth reviewing again. As such, we have dedicated the [Covered Bond focus article in this present edition](#) of our weekly publication to events on the primary market during January 2022. The first primary market appearance in the new month of February was made by a Canadian issuer. In this context, Fédération des caisses Desjardins du Québec (CCDJ) approached investors yesterday (Tuesday) with the offer of a benchmark-size deal denominated in EUR. With a term of five years, CCDJ opted for a maturity that has been frequently chosen so far in 2022, while the marketing phase for this EUR benchmark started out in the area of ms +9bp. The final re-offer spread eventually settled four basis points tighter at ms +5bp (issuing yield: 0.275%). In terms of the volume, a final size of EUR 750m was slightly up on the two previous EUR benchmarks issued by CCDJ in 2021 and 2020 respectively (EUR 500m in each case). The order book amounted to a considerable EUR 2.1bn, which resulted in an oversubscription ratio in excess of 2.0x for a transaction that can overall be described as a success. As expected, the issuance dynamic remains high in Canada (cf. [focus article in last week's edition of this publication](#)). The issuance volume from Canada YTD now totals EUR 7.75bn, meaning that Canadian Covered bonds now account for the largest single share of newly placed EUR benchmark deals in 2022 (ahead of Germany at EUR 7.50bn and France at EUR 5.75bn) following this deal from CCDJ.

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
CCDJ	CA	01.02.	XS2440108491	5.0y	0.75bn	ms +5bp	AAA / Aaa / -	-

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

EUR sub-benchmark segment: Landesbank Saar active with deal for EUR 250m

A German issuer, namely Landesbank Saar, approached issuers in the EUR sub-benchmark segment. For this Pfandbrief worth EUR 250m (7y; WNG), the books opened with initial guidance in the area of ms +6bp. The final re-offer spread amounted to ms +2bp, while total orders of at least EUR 1bn were recorded. This means that Landesbank Saar can chalk this deal up as a success with a bid-to-cover ratio of 4.0x.

Revised forecast: new issuance activity totalling EUR 124bn now expected in 2022

As we explained last week, the brisk issuance activity on the part of Canadian issuers caught us thoroughly by surprise at the start of the new year. We were therefore forced to revise our 2022 issuance forecast for Canadian banks from EUR 9bn upwards to EUR 14bn (cf. [Focus article in last week's edition of this publication](#)), meaning that we now expect a total volume of EUR 124bn for the market as a whole. As such, our anticipated negative net supply for the entire market is now just EUR -14bn. However, we do not see any need to adjust spread expectations and expect modest widening across the board up to the mid-point of the year – especially since the temporary widening of spreads has receded again.

NORD/LB forecast 2022: issues and maturities by jurisdiction (EUR bn)

Jurisdiction	Outstanding volume	Issues 2022 ytd	Maturities 2022	Issues 2022e	Net supply 2022e
AT	35.0	2.5	3.0	5.5	2.5
AU	26.6	-	7.5	6.0	-1.5
BE	16.3	-	2.8	2.5	-0.3
CA	65.8	7.8	8.0	14.0	6.0
CH	1.3	-	1.3	0.0	-1.3
CZ	0.5	-	0.0	0.5	0.5
DE	161.7	7.5	21.1	21.0	-0.1
DK	7.0	-	2.5	1.5	-1.0
EE	0.5	-	0.0	0.5	0.5
ES	76.0	-	13.7	4.0	-9.7
FI	28.0	0.5	4.8	4.5	-0.3
FR	217.6	5.8	30.8	30.0	-0.8
GB	30.9	-	8.3	4.0	-4.3
GR	0.5	-	0.0	0.0	0.0
HU	0.0	-	0.0	0.5	0.5
IE	3.5	-	1.8	0.0	-1.8
IT	48.9	1.5	7.8	4.5	-3.3
JP	4.9	-	0.0	1.5	1.5
KR	5.6	-	0.0	2.0	2.0
LU	1.5	-	0.0	0.0	0.0
NL	61.7	1.0	5.3	5.0	-0.3
NO	50.1	2.0	8.0	7.0	-1.0
NZ	8.7	-	1.8	2.5	0.8
PL	2.1	-	0.6	0.5	-0.1
PT	4.8	-	2.8	0.0	-2.8
SE	29.6	-	5.0	3.0	-2.0
SG	7.3	-	1.5	1.5	0.0
SK	3.5	-	0.0	2.0	2.0
Total	899.6	28.5	138.0	124.0	-14.0

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

The Netherlands: Van Lanschot Kempen establishes new covered bond programme

Two weeks ago, we covered the EUR benchmark issuers in Belgium and the Netherlands in greater detail as part of our weekly publication (cf. [NORD/LB Covered Bond & SSA View from 19 January 2022](#)). In this article, we indicated that issuers in the Netherlands are opting to supplement their CPT programmes by increasingly setting up programmes dedicated to the issuance of soft bullet bonds in future. Another issuer in the form of Van Lanschot has now followed the example set by several of its national counterparts by announcing its intention to establish a new covered bond programme on [27 January 2022](#). In our opinion, this is a logical step and should lead to advantageous developments on the funding side for Van Lanschot as the bank's investor base will now be expanded.

Scope presents covered bond outlook for 2022: stability ahead!

The covered bond team from Scope Ratings (Scope) recently presented its Outlook 2022. Overall, the risk experts see no prospect of a sustained change of direction for the year ahead. Both in terms of the credit quality of issuers and of the cover assets themselves, Scope does not expect any long-term distortions. Potential corrections on the property markets – as a result of stricter regulatory requirements, for example – should therefore be cushioned by the ample supply of liquidity, among other factors. Scope has identified an end to the influence of the pandemic on credit quality in particular. Accordingly, the majority of the rating outlooks switched to negative following the onset of the coronavirus crisis have now returned to “stable”. Scope Ratings has also stuck to this assessment of the state of play at the start of the new year. Nevertheless, Scope did highlight a series of challenges on the horizon for the banking sector as part of its outlook. In addition to a required improvement in profitability and adjustment of business models, the analysis also specifically cites the approach to dealing with ESG risks. In relation to the covered bond market, Scope also welcomes the diminished dynamics behind retained issuances and the comparatively high number of new, publicly placed deals since the start of the year.

LBBW agrees takeover for Berlin Hyp

On 26 January 2022, LBBW communicated that it had concluded an agreement to acquire Berlin Hyp (cf. [press release](#)). According to LBBW itself, the acquisition of the commercial real estate financier Berlin Hyp will expand the bank’s own position within this business field. The takeover is still subject to antitrust approval and must also be approved by the responsible savings banks’ bodies. The transaction is expected to be closed during the summer of 2022. LBBW further announced that both banks have pursued a comparable, conservative risk policy and that the respective credit portfolios in the commercial real estate financing business – LBBW: EUR 26bn, Berlin Hyp: EUR 25bn; data as at mid-2021 in each case – are dominated by office buildings and residential properties. Both banks are among the active Pfandbrief issuers in Germany and also adopted a targeted ESG strategy in this sub-market several years ago. For example, Berlin Hyp was a pioneer in this regard when it opened up this market, which is becoming ever more important, with the issuance of the first green Pfandbrief in 2015. Although LBBW has established a programme for the issuance of mortgage Pfandbriefe (outstanding volume: EUR 11.2bn; cover pool: EUR 16.2bn) in addition to a programme for public sector Pfandbriefe (outstanding volume: EUR 10.1bn; cover pool: EUR 12bn), Berlin Hyp will operate exclusively as an issuer of mortgage-backed Pfandbriefe in line with its distinct business model (outstanding volume: EUR 16.8bn; cover pool EUR 17.3bn). All things being equal, our calculations reveal that merging the two mortgage programmes would produce an outstanding volume that would propel LBBW/BHH into the top three Pfandbrief issuers in Germany. However, we do not expect the mortgage cover pool to actually be merged due to the fact that LBBW has signalled its intention to manage Berlin Hyp “under its established brand name as a self-contained subsidiary”. The Pfandbriefe (issued by both Berlin Hyp and LBBW) are rated Aaa by Moody’s. LBBW has seven outstanding mortgage Pfandbriefe (EUR 5.75bn) and three outstanding public sector Pfandbriefe in EUR benchmark format. For its part, Berlin Hyp has 18 deals outstanding (EUR 10.23bn). Berlin Hyp’s ESG focus is also reflected in its total of six outstanding green benchmarks. Due to the rating-risk profile combination of LBBW and Berlin Hyp, no pronounced spread movements are expected in the wake of this merger.

S&P presents commentary on covered bond markets in Finland and Norway

S&P Global discussed developments on the Nordic covered bond jurisdictions of Norway and Finland in a recent comment piece. The risk experts come to the conclusion in their analysis that the COVID-19 pandemic did not produce any negative impact on mortgage loans in either country. Moreover, property prices are now once again on the rise. While S&P has identified that the monetary policy course adopted by the ECB has had a negative impact on issuance behaviour in Finland, the effect in the non-EMU jurisdiction of Norway was less pronounced, according to the rating agency. S&P also highlighted the comprehensive support measures introduced by the governments in both countries in the wake of the COVID-19 crisis. In terms of the EU covered bond harmonisation project, the pandemic has also led to delays in the implementation of the requirements of the covered bond directive in Finland. The proposal for the new Finnish covered bond act, which will now be voted on by parliament, includes in particular the introduction of the 180-day liquidity buffer as well as adjustments to the LTV and OC requirements. For Norway, too, S&P believes that implementation and application will be finalised before the deadline (08 July 2022) of the directive. For both Norway and Finland, the legislative adjustments will have an impact on the issuance programmes and individual bond deals. We share S&P's view that while changes can certainly be expected, these will be more structural in nature and without any pronounced impact on spread structures. From our perspective, this can be explained in particular by the already high quality standards of national legislation and the manageable legal framework adjustments that this produces. As far as the stability of covered bond ratings is concerned, S&P additionally emphasises the high credit quality of sovereigns and the solid state of the relevant banks and issuers in both Norway and Finland.

Switzerland follows suit: countercyclical capital buffer reactivated

As the Swiss Financial Market Supervisory Authority announced in a [press release](#) issued on 26 January 2022, the Federal Council (the Swiss federal government) has decided to reactivate the countercyclical capital buffer (CCyB) on domestic residential property mortgages after this was originally suspended against the backdrop of the coronavirus crisis in March 2020. During the consultation process, FINMA argued in favour of the reintroduction and therefore shares the view expressed by the Swiss National Bank (SNB) in its statement. Compliance with the increased buffer of 2.5% will be required from 30 September 2022. As such, Switzerland is again demonstrating its preference for acting both conservatively and swiftly. For example, Swiss banks are required to meet relatively strict capital requirements in an international comparison. As a reminder, Germany recently resolved to increase the CCyB to 0.75% from February 2023 (current level: 0%), while a systemic risk buffer of 2% is still under discussion (cf. following paragraph below). In its comments at the end of January 2022, the German Banking Industry Committee (Deutsche Kreditwirtschaft – DK) continued to speak out against the introduction of the buffer. The press release refers to overheating tendencies on the property and mortgage markets and, in particular, to the rise in residential property prices. In fact, the DK also outlines grounds for complaint based on the fact that over the past 20 years, house prices have risen more sharply than both consumer prices and GDP. Particular risks have been identified in the area of investment properties and the buy-to-let segment. FINMA has also carried out analyses showing that a serious real estate crisis would hit the banking and insurance sectors in particular and that the capital requirements could then no longer be met. At the same time, the domestic property market is valued at over CHF 1,100bn (approximately EUR 1,060bn) and is therefore regarded as “too big to fail”. All of these reasons have now led to the reactivation of the CCyB in order to ensure greater resilience on the part of the banking sector.

Germany: countercyclical capital buffer required from 01 February 2023

On Monday, the Federal German Financial Supervisory Authority (BaFin) ordered banks to increase their countercyclical capital buffer rates from 0% to 0.75% from 01 February 2023 onwards as part of a [General Administrative Act](#). This decision was preceded by a consultation phase that ran from 12-26 January 2022. However, a final decision on the introduction of a 2% sectoral systemic risk buffer on RWAs related to loans collateralised by residential real estate is still pending. In this context, comments could be submitted to BaFin up until 26 January 2022. Discussions are now being held on whether and to what extent the systemic risk buffer will come into play. We currently assume that compliance with the systemic risk buffer of 2% will be required from February 2023, as originally planned.

Market overview

SSA/Public Issuers

Author: Dr Norman Rudschuck, CIIA

ECB Governing Council meeting on 03 February: the least important meeting of 2022?

The first of this year's regular ECB Governing Council meetings will take place tomorrow (Thursday). As we have already mentioned on previous occasions, including in our ECB Preview last week (cf. [NORD/LB Covered Bond & SSA View on 26 January 2022](#)), a number of factors suggest that this could turn out to be the least important meeting this year. We do not believe that ECB Council members will make any concrete adjustments to monetary policy parameters or even revise their own outlook relating to inflation. If anything, after the meeting, the markets are likely to be asked to be patient, and we would not rule out hints regarding future adjustments (e.g. in relation to tiering). The focus of interest during the press conference is likely to be on the price trend and persistent inflation threats, even though the ECB is likely to ask for patience in this respect as well. Meanwhile, however, there is no let-up in calls for the ECB to change course, in spite of the fact that the last meeting set out the future direction of travel. At the beginning of 2022, the Association of German Banks (bdb), for example, called for a normalisation of monetary policy and urged the ECB to set out the necessary roadmap. There has above all been criticism of the central bank's communications. For example, Christian Ossig, Chief Executive of the bdb, claimed that the statement "inflation would come down sooner or later" was far from convincing. However, we do not expect any new communication strategy in this respect from tomorrow's meeting. Ossig added that the ECB cannot and should not be allowed to remain in monetary policy crisis mode for the long term in order to combat deflation risks, which, in his view, are now a thing of the past.

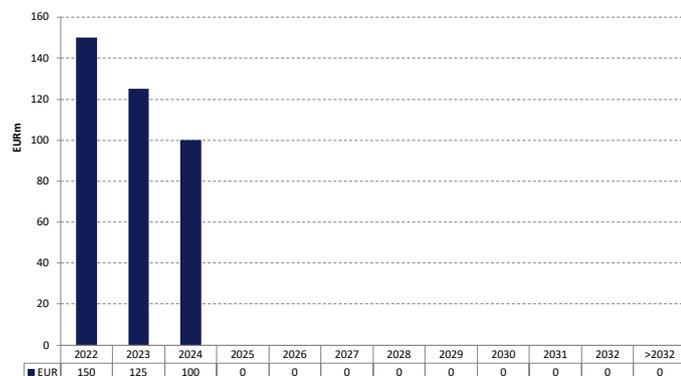
ECB: review and preview

At the last Council meeting back in 2021, the ECB carefully set out a roadmap for 2022 which contained many adjustments. As expected, the PEPP is to be wound up with effect from 31 March. Based on our calculations, the "full envelope" of the EUR 1,850bn programme, which was increased several times, will not be used. However, reinvestments will now continue until at least the end of 2024, which is 12 months longer than indicated a year before. In contrast, the ECB left interest rates at the present level of 0.00% (rate for main refinancing operations) and -0.50% (deposit facility rate). Likewise, the regular APP remains unchanged for the moment. Until the end of Q1 2022, monthly net asset purchases will stay at EUR 20bn. The figure will then double to EUR 40bn per month in Q2. In Q3, the monthly amount will be cut to EUR 30bn, before reverting to EUR 20bn per month from 01 October. As things stand at present, this scenario will then apply until shortly before an increase in key interest rates. The same applies to the timeframe for maturities arising under the programme, although they are expected to be reinvested in the market even beyond the timing of a first hike in interest rates. The TLTRO and tiering remain under scrutiny also; in this case, news flow and movements in 2022 could be factors in any decisions taken.

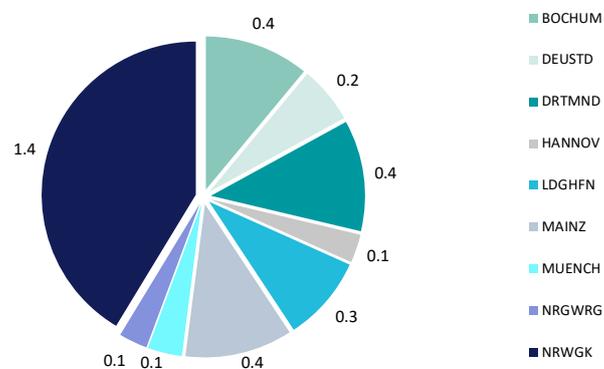
Mainz: BioNTech vaccine a veritable goldmine for the city

Günter Beck, mayor of Mainz and department head of finances, holdings and sports, is convinced that the year 2021 will go down in the city's annals of history. "For me, it's the miracle of Mainz", he declared in a newsletter. Originally, an annual deficit of around EUR -36.7m had been forecast for 2021. However, due to huge increases in business tax revenues, current projections now assume an annual surplus of over EUR 1,090m. Even as recently as 30 September 2021, the surplus was put at EUR 11.6m. "This shows that the majority of Mainz companies tackled the pandemic head on", he says. For those in the know: BioNTech's postal address in Mainz is An der Goldgrube 12. Literally situated at the goldmine – you could hardly make it up! "For Mainz, the development and manufacture of the BioNTech vaccine is on a level with the invention of the printing press by Johannes Gutenberg", enthuses Lord Mayor Michael Ebling. Moreover, he believes that this bonanza will open up unprecedented economic development potential for Mainz. "Just a year ago, we expected the budget to take a substantial hit from the pandemic from 2022 onwards. Back then, we were even anticipating a loss of EUR -49.5m in 2022", recalls Beck. Now, a budget for 2022 has been presented to the city council which assumes an annual surplus of EUR 490.8m, in spite of a marked reduction in the business tax rate from 440 to 310 points. The first tax cut in 2022 has given Mainz companies tax relief totalling around EUR 351.6m, further boosting the city's attraction for businesses.

Maturities under the MAINZ ticker



Overall market for German municipal bonds



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

MAINZ set to be debt-free – something other municipalities can only dream of

The city has three bonds outstanding under the MAINZ ticker. A floater is set to mature annually in September, starting at the end of Q3 2022. There were no bonds in 2021 from either Mainz (the last one was in 2017) or from other municipalities. The last authorities to be active in the market were MUENCH and BOCHUM in 2020. The market for German municipal bonds is currently worth EUR 3.3bn; its biggest boost came from the NRW joint community bonds, consisting of a merger of various municipalities in NRW (NRWGK). Another bond which stands out is the sustainable SSD from the city of Hannover (EUR 100m) along with the first cross-Laender city bond (Staedteanleihe; DEUSTD); as yet, there has been no second bond issued under the DEUSTD ticker. Other regional and local authorities include Dortmund, Ludwigshafen and Nuremberg together with Würzburg.

KfW Energy Transition Barometer

The Energy Transition Barometer is a study by KfW which has appeared on an annual basis since 2018 based on a representative random sample of around 4,000 households in Germany. At the heart of the survey, according to the press release, is the current and future use of technologies relevant to the energy transition for German households. According to the study design, additional questions regarding what prompts the views of these households make it possible to draw conclusions regarding the main drivers and barriers for the households' activities. A total of 92% of the households surveyed regard the energy transition as important or very important. In fact, the study suggests that this figure is slightly higher still than prior to the outbreak of the pandemic. Moreover, the willingness of households to take action in order to move the transition forwards was apparently only slightly down on the previous year's level in spite of the crisis. Just under 27% of households in the KfW study indicated that they already use at least one of the energy transition technologies mentioned in the survey (e.g. photovoltaic). This was an increase of almost four percentage points or just over 15% against the previous year. According to the study, a further 7% of households were planning on purchasing technology that would accelerate the energy transition in the next 12 months. The highest growth rates in future are likely to be for electric vehicles and photovoltaic systems, with 4.9% and 4.1% of households respectively planning to acquire one in the near future. The use of energy transition technology was lowest in the case of low-income households. At the same time, these households are more likely to live in older and less energy-efficient buildings. This suggests that this is where the biggest need for catching up lies – and simultaneously, the greatest impediments to progress. The transformation to achieve climate neutrality can only succeed if all groups in society are on board, according to the study. We fully agree that this is the case in view of the current debate about additional costs and hence inflationary price increases.

Primary market

Not many issuers braved the market, either immediately before and especially not immediately after the FOMC meeting. Even now, in the aftermath, there is not much activity, but as the old adage goes: slow and steady wins the race. We have recorded five benchmark bonds and begin our review with Brandenburg. This issuer was seeking to raise EUR 500m for eight years at ms -10bp. The spread tightened by one basis points against the guidance. The EIB is well aware that it can make a good impression with its distinct Climate Awareness Bond (CAB) format; the deal even tightened from ms -17bp area to ms -20bp (7.8y), attracting orders of EUR 7.5bn. NRWKB launched an 8y deal at ms -8.5bp with no further details on the order book or spread disclosed. Despite this situation, it was a case of smiles on faces all round. There was also a deal from France – a 6.8y, EUR 1.25bn bond from Bpifrance. For its part, SACHAN launched a 10y, EUR 1bn bond at ms -9bp, two points tighter than the guidance, on the back of an order book of EUR 2.8bn. The picture is rounded off by two long taps from NRW (2068 and 2078). In addition, Lower Saxony has mandated for a 7y benchmark bond. Furthermore, the EU has sent out an RfP. Consequently, there was almost as much activity on the first day of trading in Feb 2022 as in the entire month of Feb 2021. We are intrigued to see how things go from here.

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
SACHAN	DE	31.01.	DE000A3MQP00	10.0y	1.00bn	ms -9bp	AAA / Aa1 / AA	-
OSEOFI	FR	28.01.	FR00140084Y5k	6.8y	1.25bn	ms -6bp	AA / Aa2 / -	-
NRWBK	DE	27.01.	DE000NWB1W10	8.0y	0.50bn	ms -8.5bp	AAA / - / AA	-
EIB	SNAT	25.01.	XS2439543047	7.8y	1.00bn	ms -20bp	AAA / Aaa / AAA	X
BRABUR	DE	25.01.	DE000A3E5SJ9	8.0y	0.50bn	ms -10bp	- / Aaa / -	-

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

Covered Bonds

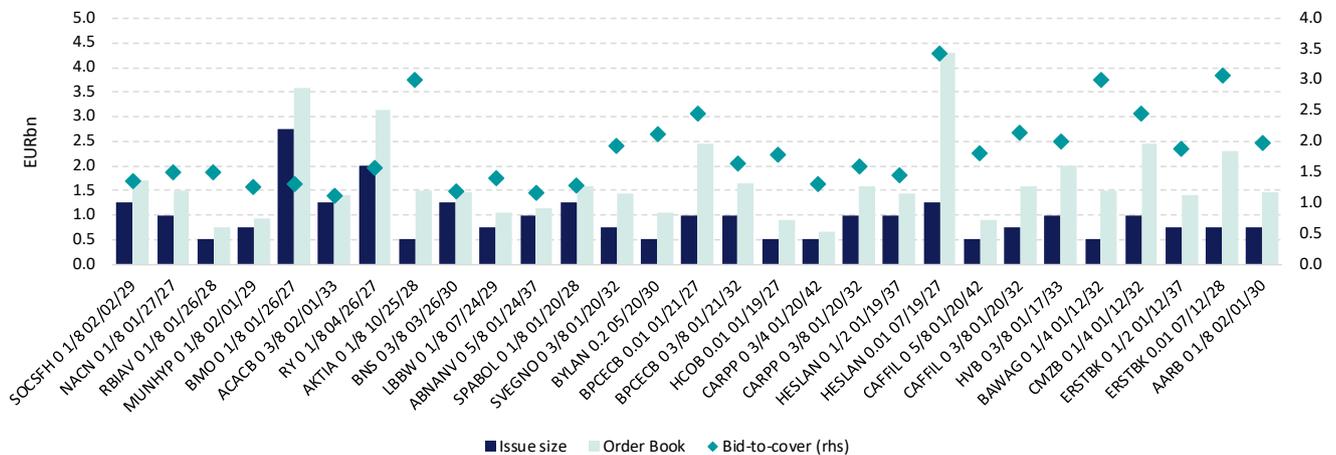
Review of January 2022: a reversion to old patterns does not always have to be bad

Author: Dr Frederik Kunze

Has this January signalled a return to normality?

As we have repeatedly remarked in our weekly publication, January 2022 has been characterised by high levels of activity, as the placement of new covered bonds totalling EUR 27.75bn (29 bonds) in the EUR benchmark segment makes clear. This figure not only significantly exceeds the primary market issuance from 2021 (EUR 12.8bn) but is also reminiscent of issuance patterns from previous years (particularly the period before the outbreak of COVID-19). After all, from a seasonal perspective, issuers swarm onto the market in the first weeks of trading, in particular, with the aim of raising fresh funding from investors. As part of our review of January 2022, we would like to start by considering these seasonal patterns and then look at other facets of the primary market in 2022 to assess whether we can now talk about a return to normality.

EUR BMK issues in January 2022: issue volume, order books and oversubscription ratios

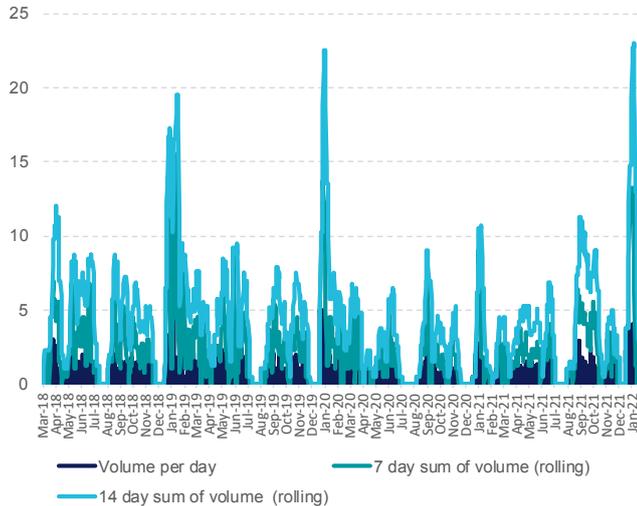


Source: Bloomberg, market data, NORD/LB Fixed Markets Strategy & Floor Research

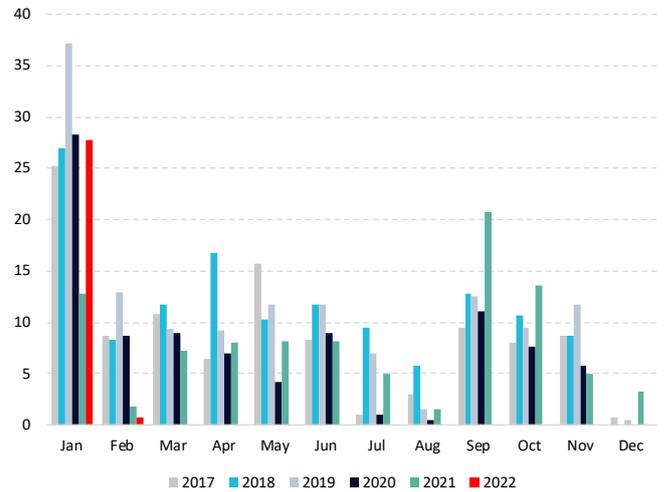
Seasonal pattern is at least reminiscent of former times

The previous year's level was significantly exceeded by the figure of EUR 27.75bn mentioned at the beginning. However, a comparison of the figures over the longer term shows that ballpark figures of EUR 25bn are by no means unusual. In fact, January regularly stands out in relation to seasonal patterns. This is the case for both new issues and maturing bonds. However, the fact that the net supply was negative in January on only three occasions between 2014 and 2022 is also striking. Alongside 2017 (EUR -3.9bn) and 2021 (EUR -16.3bn), our records indicate a negative net supply is on the cards for January 2022 (EUR -6bn) as well despite the high levels of activity. In our opinion, it should be borne in mind that, at EUR 33.8bn, January 2022 featured an extraordinarily high level of redemptions.

EUR BMK: issues over the year (daily basis)



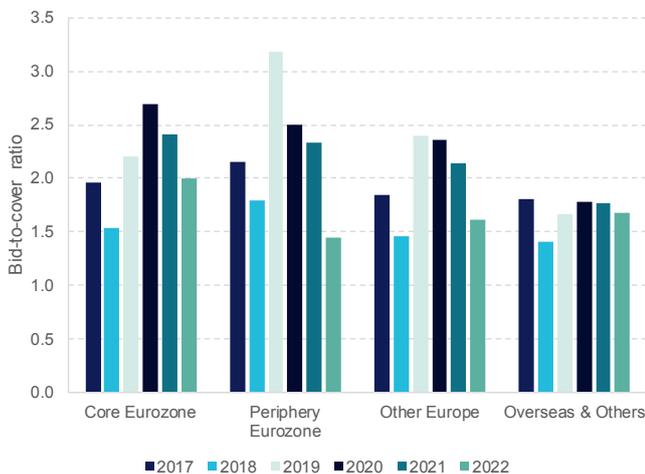
EUR BMK: issues over the year (monthly basis)



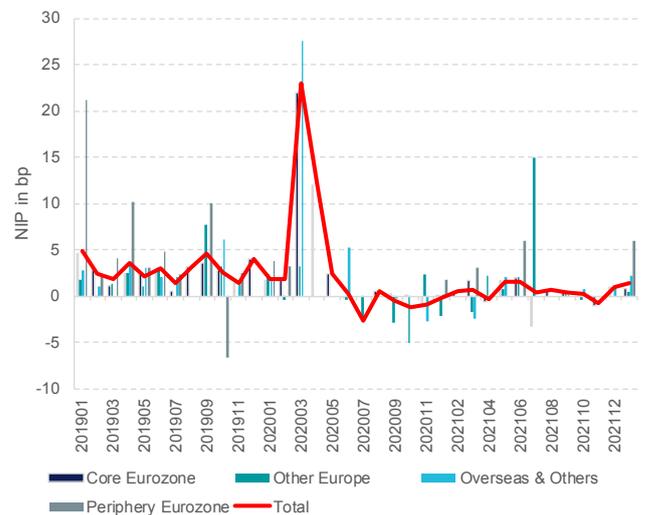
Source: Bloomberg, market data, NORD/LB Markets Strategy & Floor Research

The market is receptive (for the time being): however, bid-to-cover ratios lower recently
 Considered overall, it is clear that the market was highly receptive at the beginning of 2022. In our opinion, this is reflected both in the oversubscription ratios and the premiums compared with fair value observed on the market. At the same time, we would summarise that the picture of the situation was more nuanced both for the bid-to-cover ratios and for new issue premiums. Generally speaking, order books have not been quite as impressively filled recently and new issue premiums did rise markedly. Nevertheless, the mean of all new issue premiums for January was comparatively low at +1.3bp. However, we see lower oversubscription ratios and less bursting order books as a consequence of the substantial quantity of deals in the meantime. In this respect, we would not by any means equate lower oversubscription ratios with faltering demand. This view of the situation is supported by a solid secondary market performance.

Primary market: bid-to-cover ratios



Primary market: new issue premiums

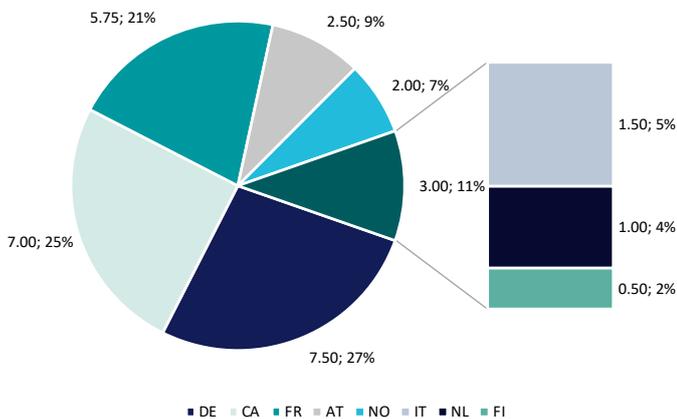


Source: Bloomberg, market data, NORD/LB Markets Strategy & Floor Research

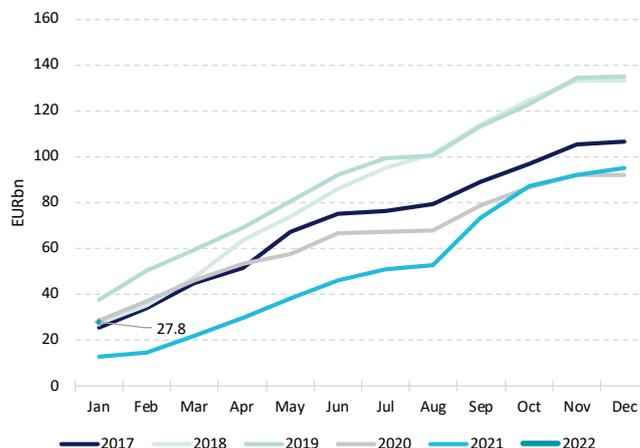
Structure of the primary market supply: breakdown headed by Germany and Canada, APAC region absent so far and long maturities less prominent

Looking at the structure of the primary market supply, it is clear that issues from Germany (EUR 7.5bn; 9 bonds) and Canada (EUR 7bn; 4 Bonds) have dominated proceedings in January. As usual, France is also one of the active jurisdictions, supplying EUR 5.75bn (6 bonds) – ahead of Austria (EUR 2.5bn; 4 bonds) and Norway (EUR 2bn; 2 bonds). There were also two bonds from Italy (EUR 1.5bn). Both the Netherlands (EUR 1bn) and Finland (EUR 500m) each offered investors a single new issue, while jurisdictions such as Belgium, Sweden, Spain and the UK as well as the APAC and CEE regions have (so far) been conspicuous by their absence. We would actually describe the large number of dual tranches as fairly remarkable. For instance, in the first eleven days of the year, Erste Bank (AT), CAFFIL (FR), Helaba (DE), Crédit Agricole Italia (IT) and BPCE (FR) approached investors with deals of this kind. The tendency among issuers to opt for medium-term maturities, which is also a direct consequence of the current maturity-specific EUR swap levels, is also striking. The interest rate level is also responsible for the fact that – regardless of the maturity – all EUR benchmark issues feature a positive issue yield in 2022. There was actually less demand for longer dated bonds, which is reflected not least by generally higher issue premiums on deals with maturities of 15 or more years. So far there have not been any issues in the ESG category, neither has there been an issue in the increasingly less significant CPT covered bonds category to date.

Primary market: EUR BMK issues in January 2022



Primary market: EUR BMK issuance trend

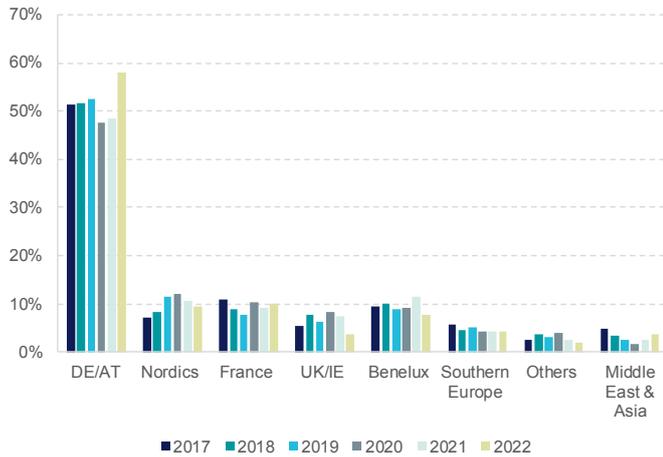


Source: Market data, NORD/LB Markets Strategy & Floor Research

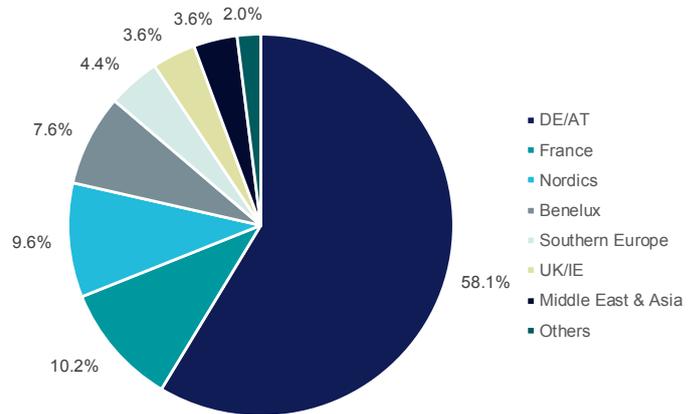
Breakdown of the issuance volume: Germany and Austria account for substantial shares

The geographical breakdown of the issuance volume is comparable with previous years in structural terms. However, distortions are possible at the beginning of the new year, since a sufficiently nuanced database is not yet available. Against the backdrop of the substantial share of deals from DE and AT, we are not at all surprised by the historically high percentage of investors from Germany and Austria either. The relevance of home bias on the part of investors is clear from the share of allocations to accounts based in these two countries in the DE/AT deals. In January 2022, 74.7% of the allocated volume of DE/AT deals ended up at investors from the same jurisdiction.

Primary market: geographical breakdown EUR BMK



Primary market 2022: breakdown EUR BMK

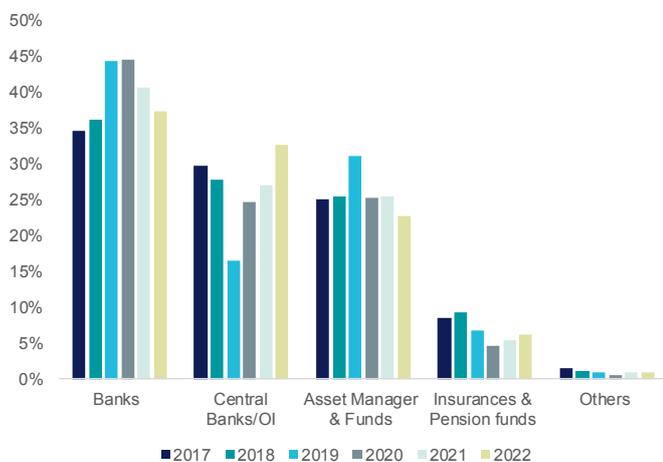


Source: Bloomberg, market data, NORD/LB Markets Strategy & Floor Research

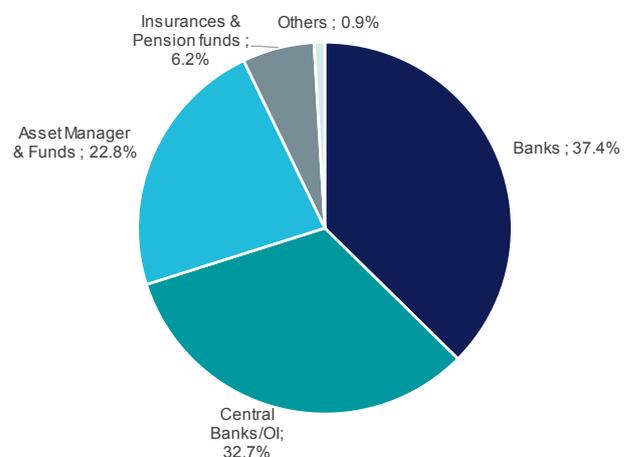
Breakdown of issuance volume: Central Banks/OI also at a high level

Historically speaking, the Central Banks/OI category also stands out after one month with a slightly higher share of the total allocated volume. Demand from the Eurosystem is actually likely to be responsible for this trend. Given sustained high levels of activity from Canada as well as higher issuance volumes from other non-EMU regions, the value attributable to Central Banks/OI should start to decrease once more. Against the backdrop of the yield environment even in the iBoxx EUR Covered, we consider that at least one of the conditions needed for a renaissance of real money investors has been met. Potential recoveries would therefore emerge in the breakdown of the categories Asset Managers & Funds and Insurance & Pension Funds. The share for the latter category stands at 6.2% after the first month of 2022.

Primary market: investor breakdown EUR BMK



Primary market in 2022: investor breakdown EUR BMK

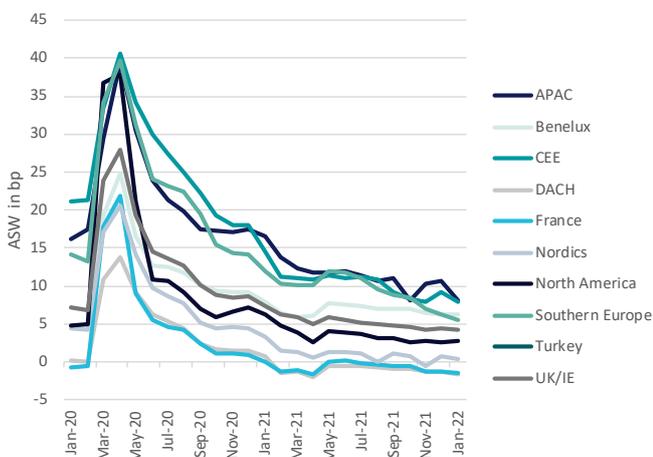


Source: Bloomberg, market data, NORD/LB Markets Strategy & Floor Research

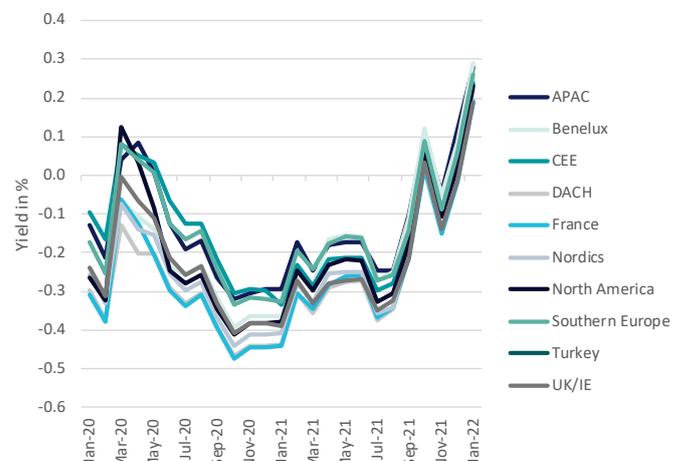
Spreads and the outlook for the rest of the year

Looking at spreads, there are also signs of a certain dynamism in January. Nevertheless, having widened in the meantime, ASW spreads have reverted to their initial level. The temporary increase in spreads was caused not least by the primary market supply described above, meaning that there were signs of spreads narrowing in response to a somewhat quieter end to the month. In our opinion, market participants generally reacted to the ebbing away of the flood of issues from the first weeks of trading by consequently switching increasingly to the secondary market. The Eurosystem also featured slightly more prominently as a buyer again. As we leave January behind for February, the market is receptive again, which is also reflected in the most recent new issuance activity. In our view, some covered bonds also still look attractive from a relative value perspective compared with public sector debt securities. Looking forward to the next few weeks of trading, the primary market should – in line with seasonal patterns from the past – be lively but not excessively so. With regard to demand from the Eurosystem, we expect the wait-and-see approach of central banks to be followed by a marked increase in purchasing activity. Even after the redemptions under the CBPP3 in the first trading weeks of the year, the Eurosystem still has significant scope for new covered bond issues in purely mathematical terms.

ASW spread: covered bonds (EUR BMK, 5y generic)



Yield: covered bond EUR BMK (EUR BMK, 5y generic)



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

Conclusion

Following the first month of issues in the new year, we are relatively confident that the primary market has reverted to a previous pattern of behaviour. This is not necessarily bad news for the EUR benchmark segment in particular. For instance, a stable, seasonal pattern would also restore a certain degree of refuge for issuers and investors. The market is ready and waiting for new issues, while demand should additionally be boosted by the ECB. Nevertheless, we expect activity on the primary market to be less frenetic – as in other years – over the next few weeks.

SSA/Public issuers

New year, new hope? Less oomph to kick off the new year

Author: Dr Norman Rudschuck, CIAA

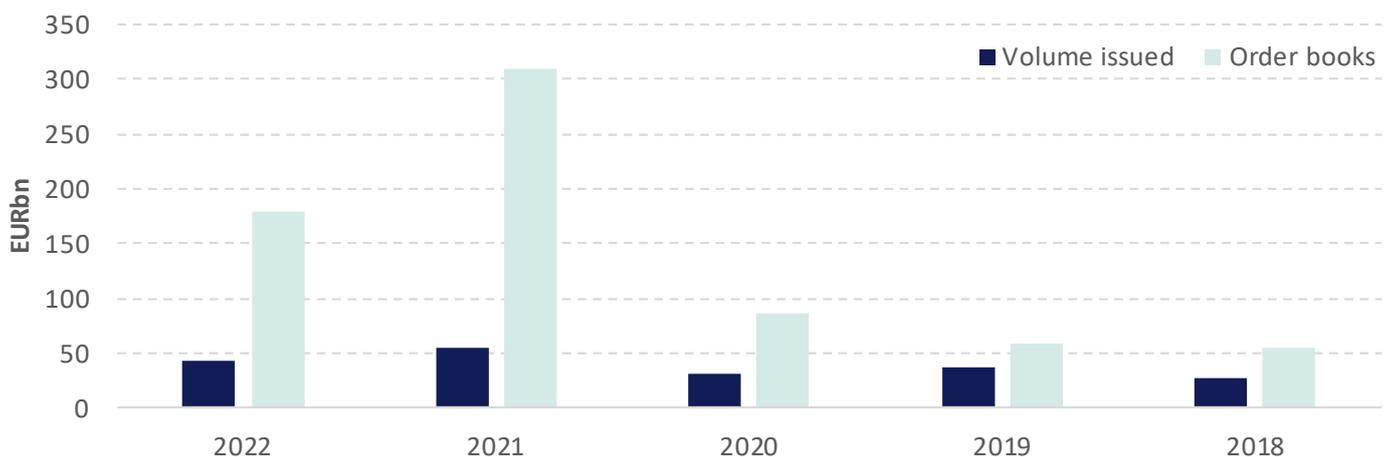
January – always an extraordinarily active month

Each year, we start by looking at precisely what the primary market will do or has done: January is always a bumper month. In most cases, it is in the top three months of the year as measured by the number of deals. Accordingly, our definition of the SSA segment – supranationals, sub-sovereigns and agencies, i.e., excluding sovereigns – issued EUR benchmarks totalling EUR 43.5bn in January 2022 (2021: EUR 55.2bn; 2020: EUR 32.0bn; 2019: EUR 36.7bn). The primary market took advantage of the full month, which consisted of 21 trading days. NIESA was keen to get on with it: this issuer actually issued mandates for the first trading week of the new year before the end of 2021, meaning that it wasted no time in kicking things off directly on 3 January.

Highlights in January

A year ago, as expected, the EU issued the largest bond (EUR 10bn, 10y). In January 2022, a surprise guest took the top spot here: the biggest deal to date, at EUR 6bn, came from France, namely from CADES (10y). However, KfW raised the most funding with a brace of EUR 5bn (10y and 5.3y) deals. At this juncture, however, it should be noted that our statistics on new EUR benchmarks do not contain information on taps, i.e., neither the EU's green auction (EUR 2.5bn) nor KfW's tap (EUR 1bn), for example, are included here. This is a peculiarity of the SSA segment, in which far more use is made of taps than in the covered bond segment, for instance. It is therefore difficult to keep and differentiate statistics. In 2021, the EU still had the largest order book, at EUR 83bn, while the amount of EUR 33.5bn achieved by KfW in 2022 is also considerable, followed by CADES on EUR 26.5bn and the EIB on EUR 26bn. In total, we counted 22 new ISINs in benchmark format (2021: 33), which equates to an average volume per bond of EUR 1.98bn (2021: EUR 1.67bn). All the order books added together in the narrow definition (i.e., excluding taps) came to EUR 179.9bn (2021: EUR 309.2bn). At the beginning of 2021, an EFSF bond was 16 times oversubscribed, while the KfW at least achieved a bid-to-cover ratio of 6.7x.

EUR benchmarks (EUR bn) in January of the respective years compared with order books (excluding taps)



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

Overflowing order books despite partially negative interest rates

If investors wanted to achieve a positive yield, it was enough to invest in the 10y KfW bond in 2022: +0.16% p.a. In 2021, institutional investors had to invest in BERGER 2041 or BRABUR 2046. At the time, the EIB and NRW (each 2051) also qualified for a positive yield. This year, an 8y EFSF deal was already sufficient to achieve a positive return. In fact, we only found one bond in our coverage with a negative issue yield: KfW 0 04/30/27 came to -0.076%. NRW provided the antithesis of this: a methuselah bond from the direction of Düsseldorf (NRW 100y, 1.468%). In 2021, a yield of only just over 1% was on offer here. The non-volume weighted mean of the 22 transactions is 15.8 years (2021: 16.5y). Bonds with a maturity of more than 31 years, such as the methuselah bond issued by NRW, do not qualify for the ECB's purchase programmes (neither PSPP nor PEPP). The national central banks in the Eurosystem may not purchase bonds from public-sector issuers on the primary market if they wish to acquire bonds for their purchase programmes either. They are only allowed to do this via the secondary market to avoid state financing "through the back door". However, national central banks may place orders if they are buying for their own books (e.g., pension obligations). This supply, which must be described as plentiful overall, met with considerable demand not only on the primary market. The securities also proved popular subsequently on the secondary market. Accordingly, continuing extreme demand is matched by the current plentiful supply (lower than in 2021, but higher than in 2019 and 2020).

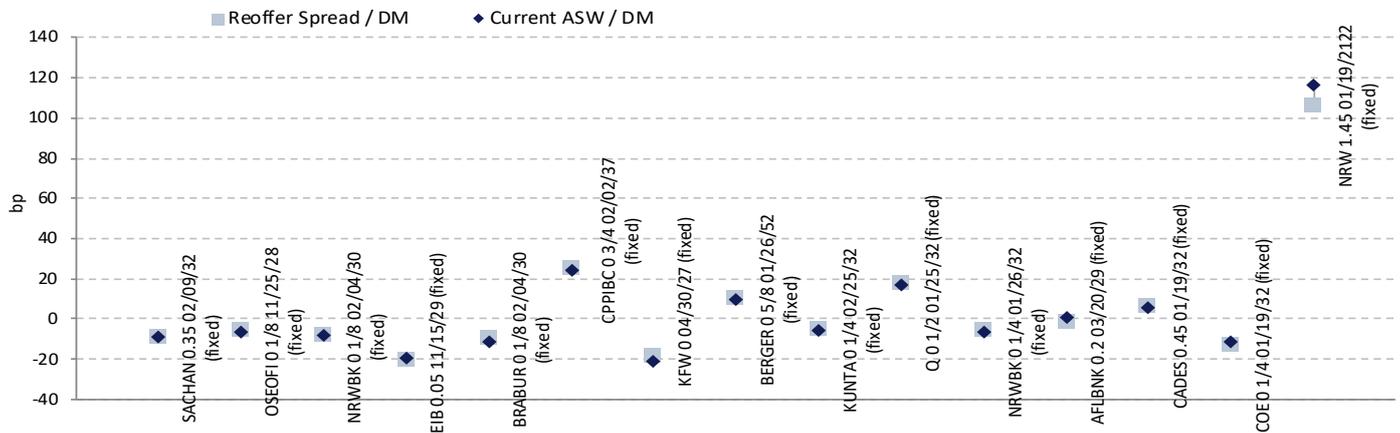
The Eurosystem: huge demand as secondary market investors

As a reminder: the Eurosystem currently pumps EUR 20bn into the markets every month solely through the APP (asset purchase programme). In net terms, its purchases have totalled just over EUR 3,123bn since 2015. Around 79.6% of this amount was attributable to the public issuers segment and was therefore part of the PSPP (Jan. 2021: 80.5%). The APP consists of covered bonds (CBPP3), ABS (ABSPP), corporate bonds (CSPP) and now the PSPP (public sector purchase programme). On top of this, it will reinvest in bonds until key interest rates are raised for the first time. In our base scenario, we do not expect this to happen in 2022 but in the first half of 2023. As is well known, the ECB has been countering the pandemic with the PEPP (pandemic emergency purchase programme) since March 2020. EUR 1,850bn may be invested here (theoretically) until March 2022, although practically speaking, our projections indicate that the possible envelope will not be entirely exhausted. Nevertheless, of the EUR 1,535.5bn invested under the PEPP, a total of 96.7% (Jan. 2020: 94.8%) is currently attributable to the public sector (Jan. 2020: EUR 806.8bn). We expect up-to-date figures here imminently since they are only updated every two months.

Sustained influence of monetary policy on the entire environment

In our forecasts for the coming weeks and months, we are consequently bound to continue grappling with the overriding monetary policy and with both the purchasing activities of the Eurosystem and the key parameters for managing the liquidity supply (especially TLTRO III) and the help in dealing with negative interest rates (key word: tiering). Even if the PEPP is discontinued, as expected, on 31 March, the Eurosystem will remain the focus of events. The monthly figure of EUR 20bn mentioned above will be doubled to EUR 40bn for three months in Q2, reduced to EUR 30bn per month in Q3 before returning to EUR 20bn in October. This will be reflected in a sustained presence on the primary (CBPP3) and secondary market (PSPP), but also in sustained pressure on the supply side.

Pricing of selected EUR benchmarks



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

Conclusion

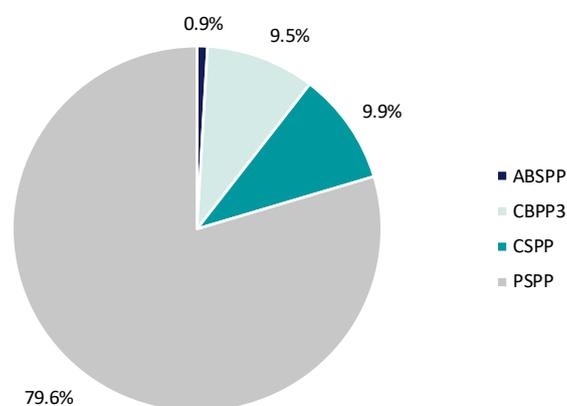
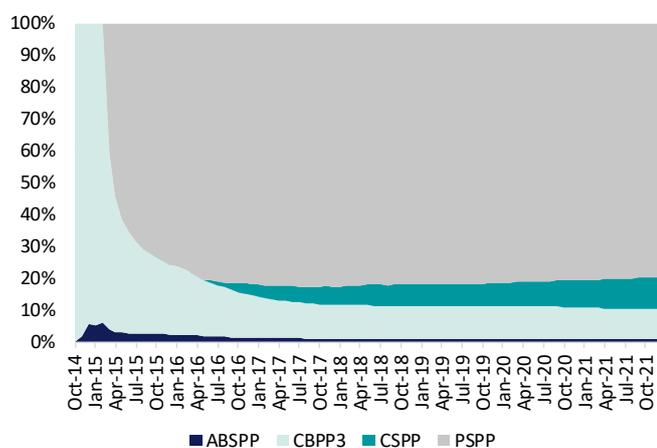
Record figures for the SSA market do not have to be achieved each January, but the figures for 2022 are higher than in 2019 and 2020. This makes us optimistic for the rest of the year. Combined with plentiful supply, which is matched by extremely strong demand from investors (order books) and the Eurosystem (purchase programmes), this generally supports spreads remaining very tight over the course of the year. We also describe this in the [Covered Bonds focus article](#) above and have already discussed it as part of our [outlook](#). In this context, the Eurosystem will retain its status as the most important purchaser in the market even if the PEPP is discontinued at the end of Q1 2022. In the wake of economic stabilisation and further extensive success with vaccination programmes, we still tend to speak of quarters rather than weeks or months as far as a normalisation of the situation is concerned. In this regard, the hunt for a “new normal” is now on until interest rates are raised for the first time at the latest. Both as a monetary policy body and as a regulator, the ECB is currently still in crisis-management mode, which has corresponding consequences for the SSA market.

ECB tracker

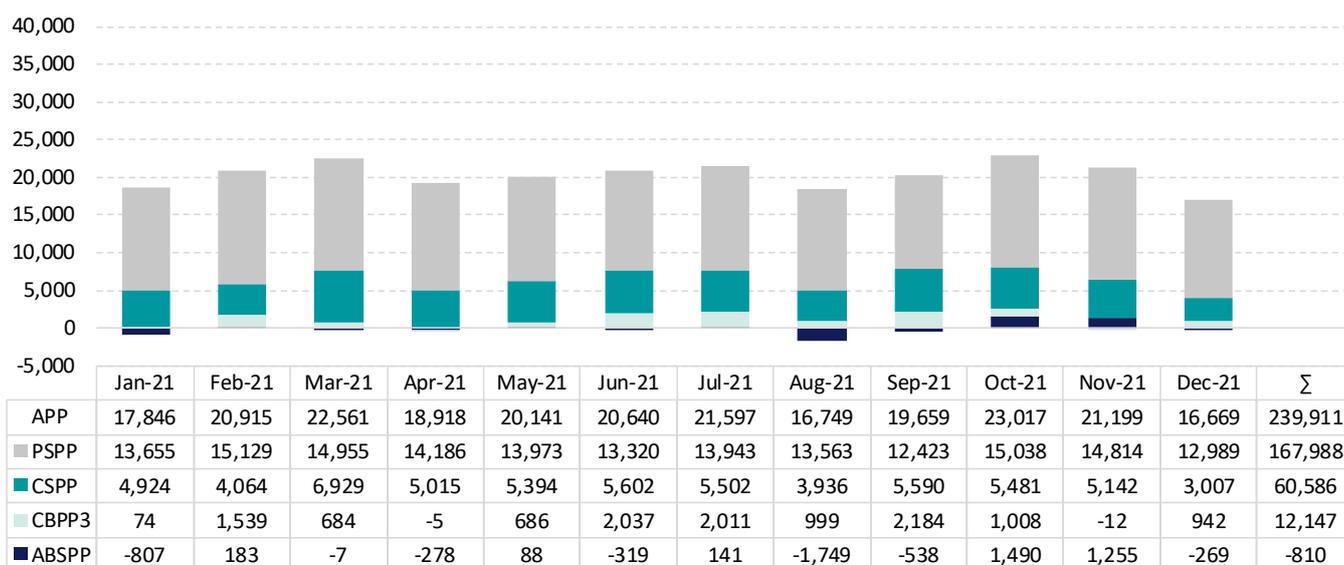
Asset Purchase Programme (APP)

	ABSPP	CBPP3	CSPP	PSPP	APP
Nov-21	28,757	297,586	307,026	2,479,130	3,112,499
Dec-21	28,477	298,167	309,676	2,487,136	3,123,456
Δ	-269	+942	+3,007	+12,989	+16,669

Portfolio structure

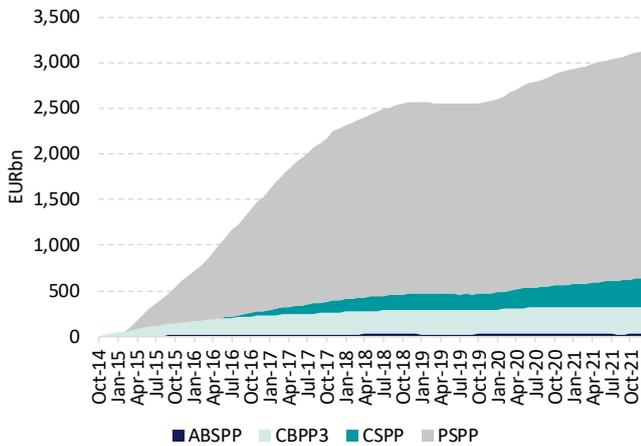


Monthly net purchases (in EURm)

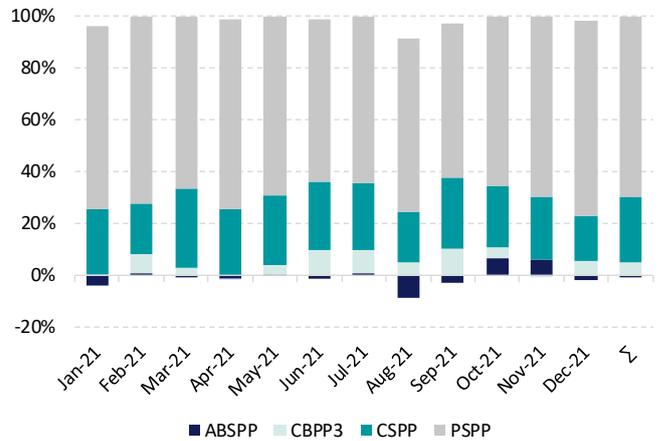


Source: ECB, NORD/LB Markets Strategy & Floor Research

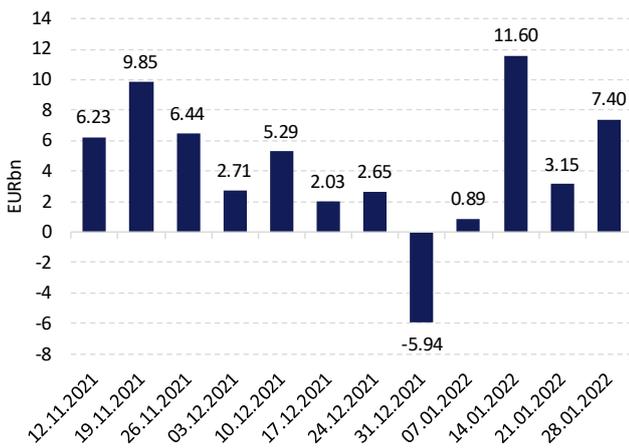
Portfolio development



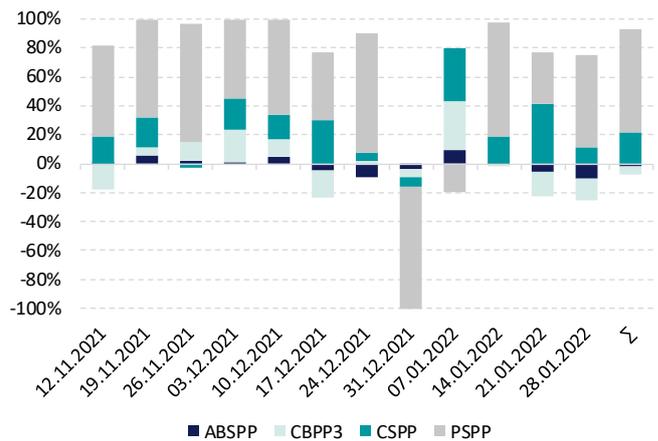
Distribution of monthly purchases



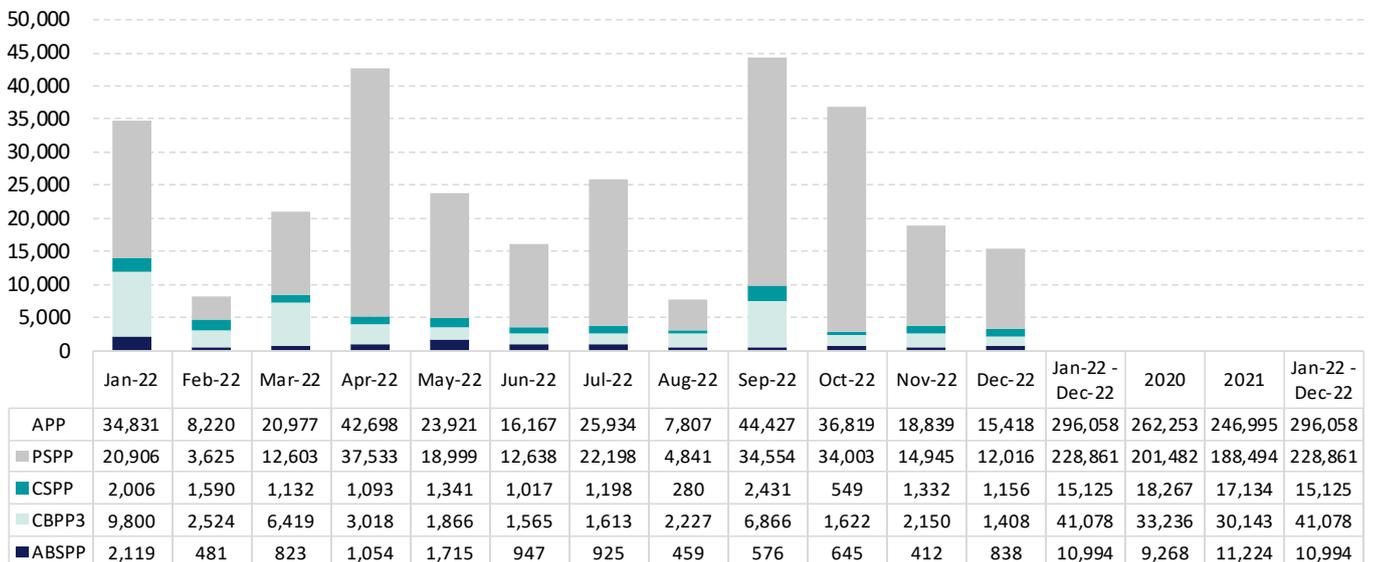
Weekly purchases



Distribution of weekly purchases



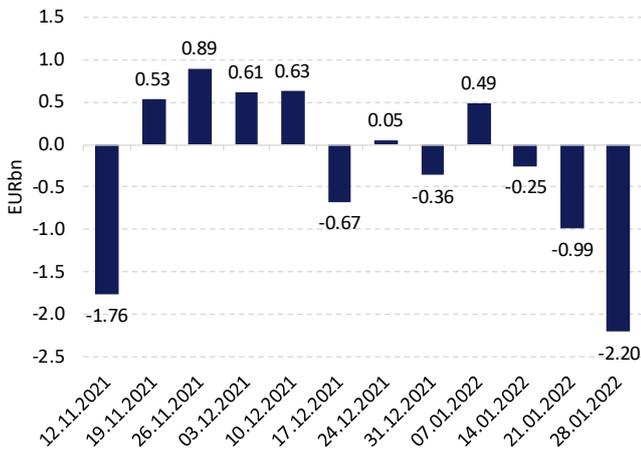
Expected monthly redemptions (in EURm)



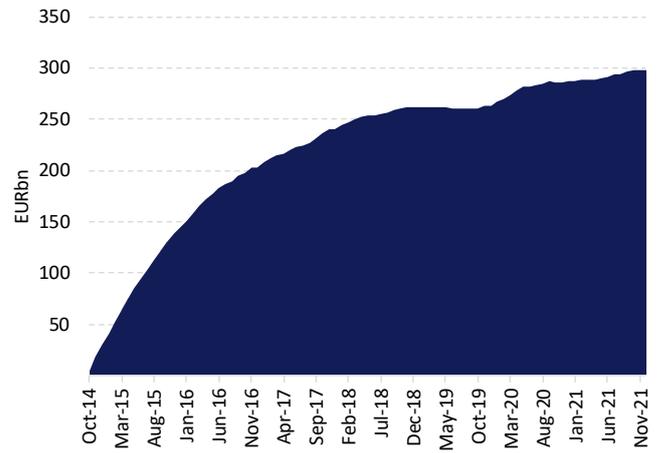
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

Covered Bond Purchase Programme 3 (CBPP3)

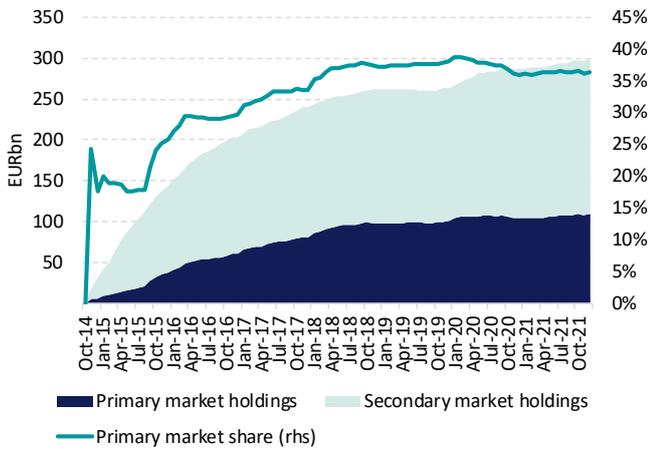
Weekly purchases



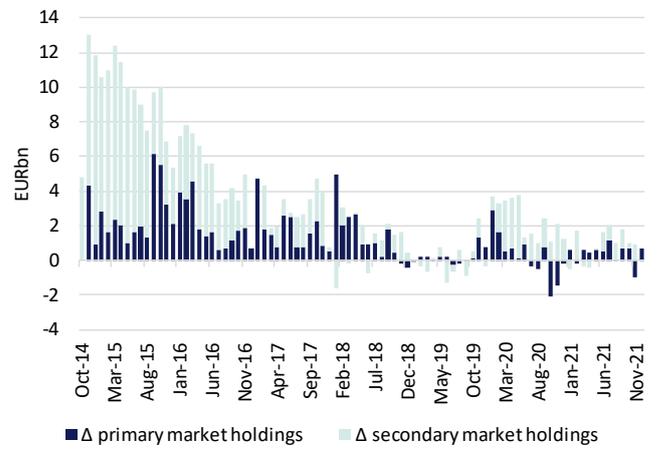
Development of CBPP3 volume



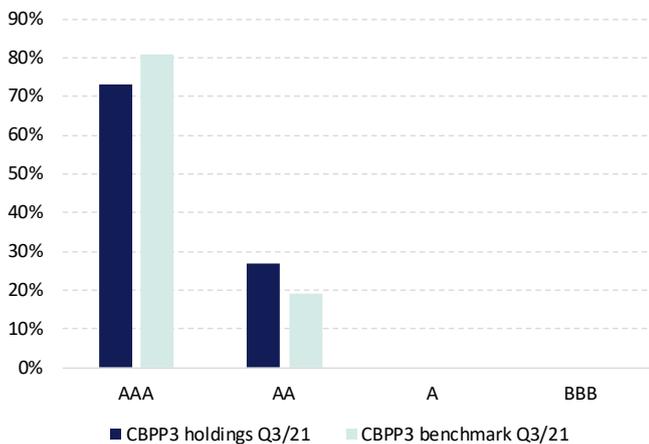
Primary and secondary market holdings



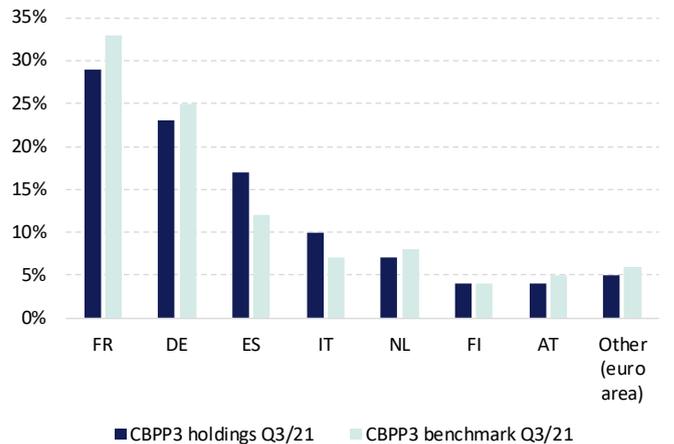
Change of primary and secondary market holdings



Distribution of CBPP3 by credit rating

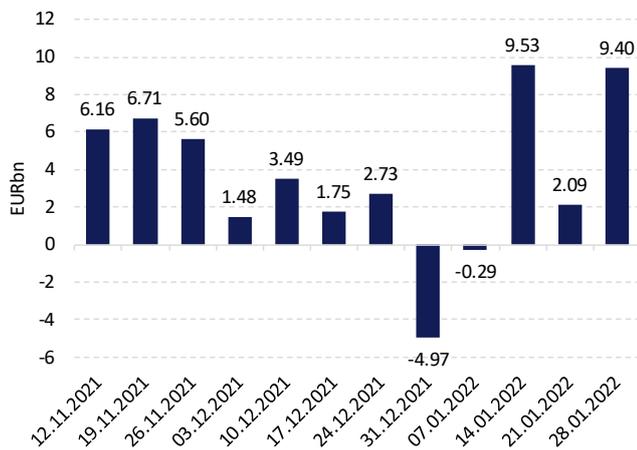


Distribution of CBPP3 by country of risk

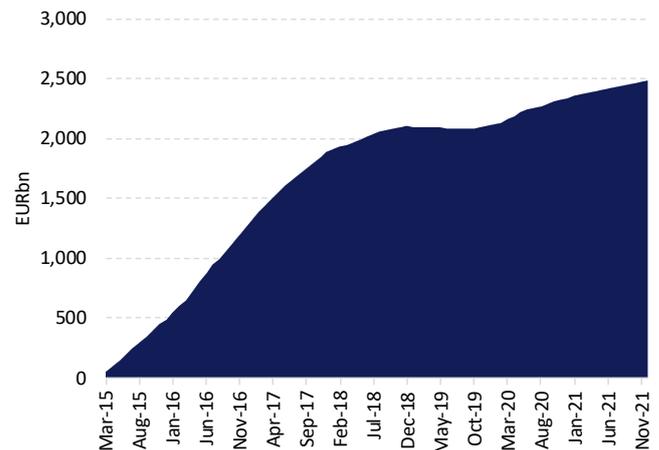


Public Sector Purchase Programme (PSPP)

Weekly purchases



Development of PSPP volume



Overall distribution of PSPP buying at month-end

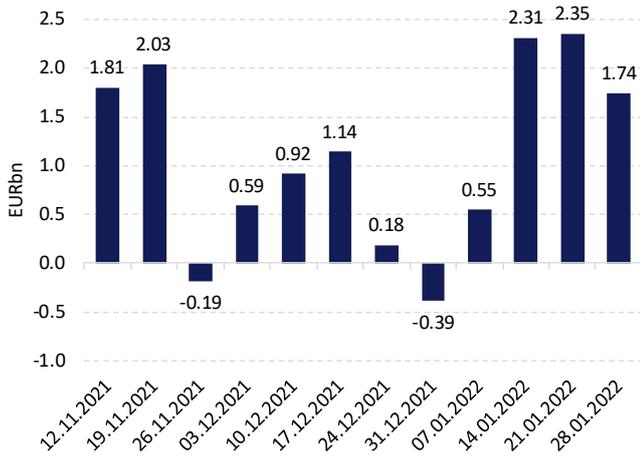
Jurisdiction	Adjusted distribution key ¹	Purchases (EURm)	Expected purchases (EURm) ²	Difference (EURm)	Avg. time to maturity ³ (in years)	Market average ³ (in years) ³	Difference (in years)
AT	2.7%	72,409	71,067	1,342	7.5	7.6	-0.1
BE	3.4%	91,027	88,460	2,567	8.0	10.2	-2.2
CY	0.2%	4,144	5,225	-1,081	9.9	8.8	1.1
DE	24.3%	634,814	640,071	-5,257	6.6	7.6	-1.0
EE	0.3%	408	6,840	-6,432	9.2	7.5	1.7
ES	11.0%	305,333	289,536	15,797	8.0	8.4	-0.4
FI	1.7%	41,170	44,600	-3,430	6.9	7.7	-0.8
FR	18.8%	516,032	495,913	20,119	7.2	8.1	-0.9
GR	0.0%	0	0	0	0.0	0.0	0.0
IE	1.6%	41,029	41,116	-87	8.5	10.1	-1.6
IT	15.7%	429,415	412,490	16,925	7.1	7.9	-0.8
LT	0.5%	5,493	14,053	-8,560	10.2	10.6	-0.4
LU	0.3%	3,870	7,998	-4,128	5.6	7.2	-1.7
LV	0.4%	3,344	9,461	-6,117	11.3	10.4	0.9
MT	0.1%	1,362	2,547	-1,185	9.5	9.2	0.3
NL	5.4%	126,966	142,294	-15,328	7.7	9.0	-1.4
PT	2.2%	51,035	56,829	-5,794	7.0	7.2	-0.2
SI	0.4%	10,349	11,691	-1,342	9.9	10.2	-0.3
SK	1.1%	17,034	27,807	-10,773	8.2	8.3	-0.1
SNAT	10.0%	275,874	263,111	12,763	7.7	8.9	-1.2
Total / Avg.	100.0%	2,631,107	2,631,107	0	7.3	8.2	-0.9

¹ Based on the ECB capital key, adjusted to include supras and the disqualification of Greece² Based on the adjusted distribution key³ Weighted average time to maturity of the bonds eligible for purchasing under the PSPP (semi-annual data, Q1/2021)

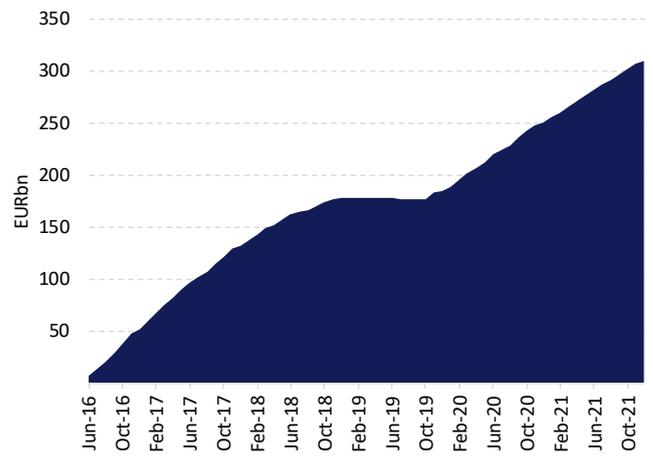
Source: ECB, NORD/LB Markets Strategy & Floor Research

Corporate Sector Purchase Programme (CSPP)

Weekly purchases

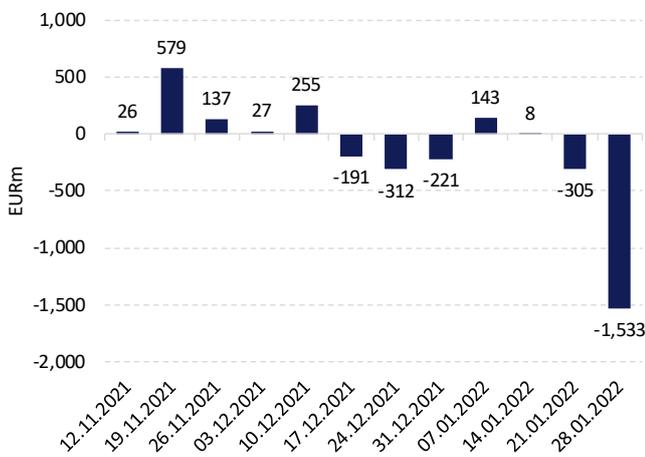


Development of CSPP volume

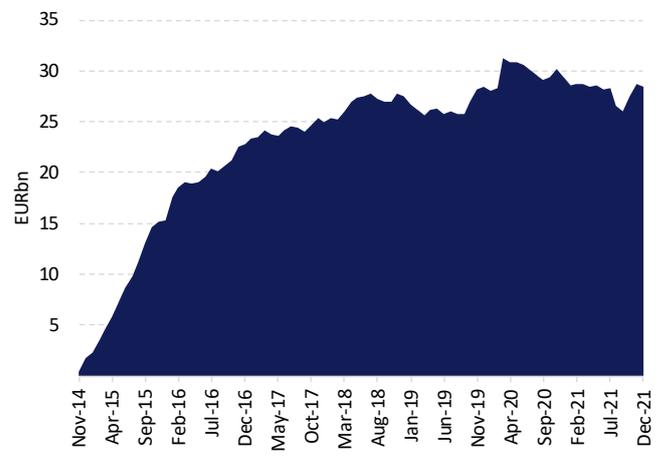


Asset-Backed Securities Purchase Programme (ABSPP)

Weekly purchases



Development of ABSPP volume



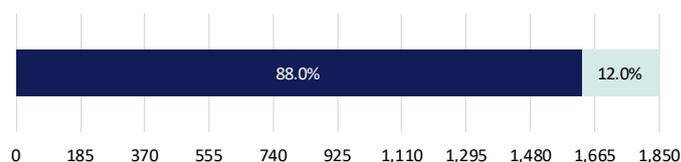
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

Pandemic Emergency Purchase Programme (PEPP)

Holdings (in EURm)

	PEPP
Nov-21	1,548,190
Dec-21	1,597,565
Δ	+49,375

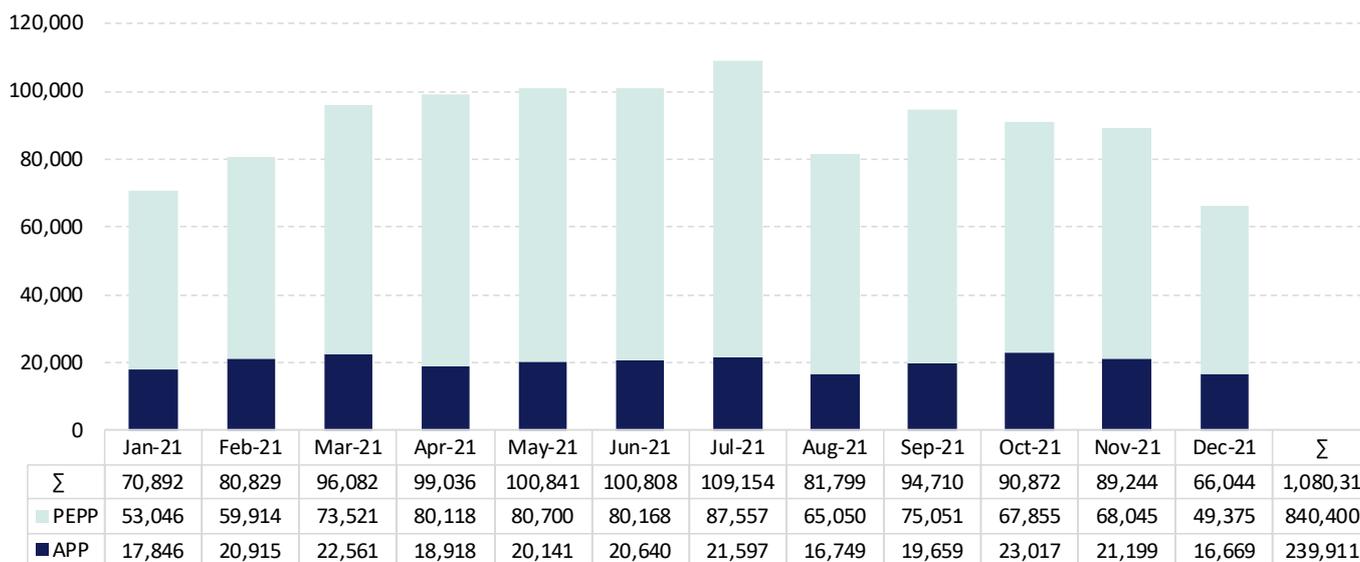
Volume already invested (in EURbn)



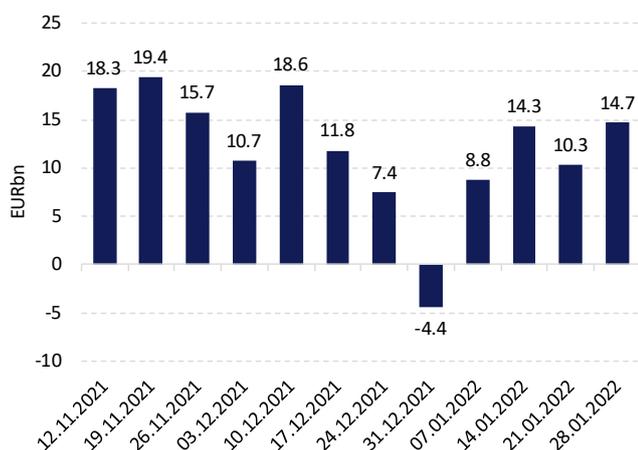
Estimated portfolio development

Assumed pace of purchases	Weekly net purchase volume	PEPP (theoretically) limit hit in ...
Average weekly net purchase volume so far	EUR 17.0bn	13 weeks (29.04.2022)

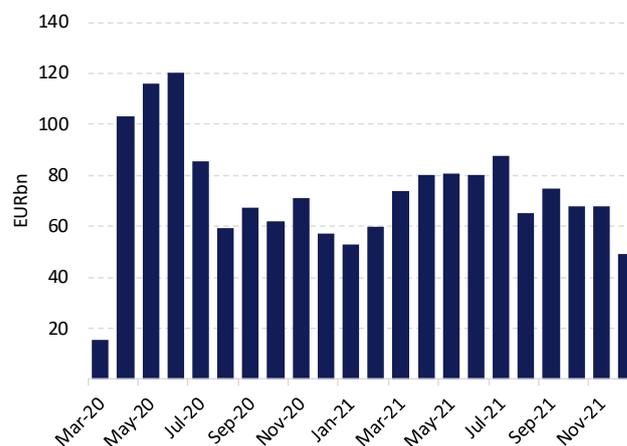
Monthly net purchases (in EURm)



Weekly purchases



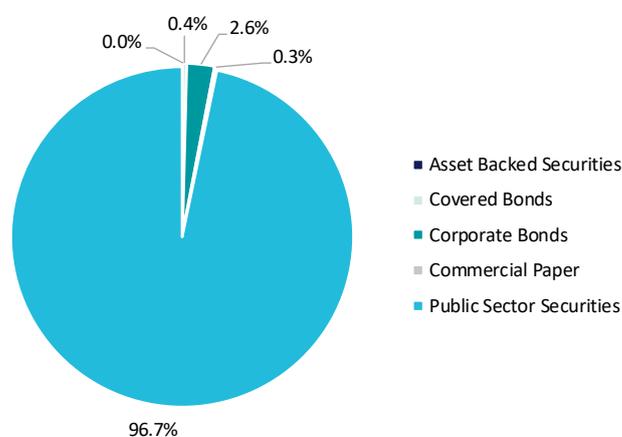
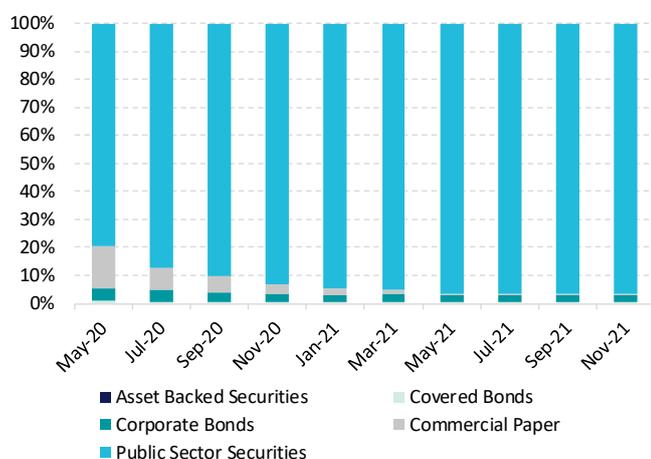
Development of PEPP volume



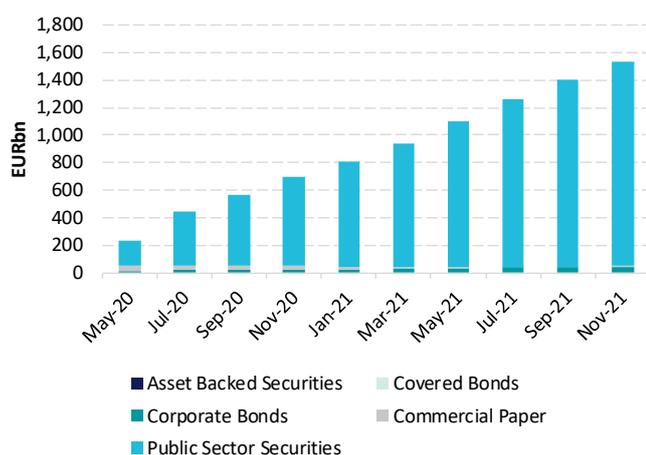
Holdings under the PEPP (in EURm)

	Asset-backed Securities	Covered Bonds	Corporate Bonds	Commercial Paper	Public Sector Securities	PEPP
Sep-21	0	6,079	37,139	3,314	1,353,076	1,399,609
Nov-21	0	6,079	39,871	4,032	1,485,567	1,535,549
Δ	0	0	+2,732	+717	+132,491	+135,940

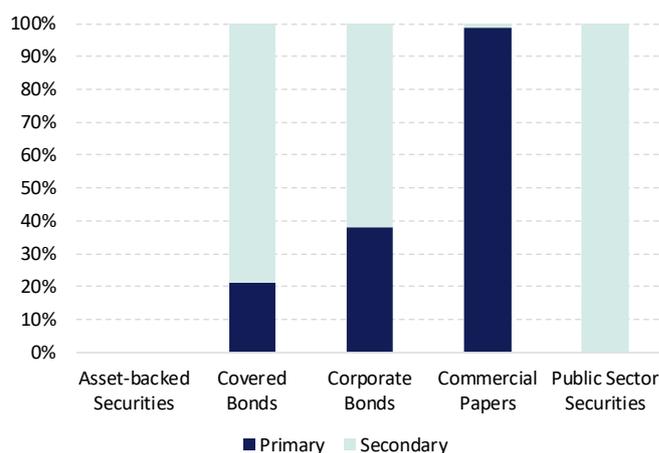
Portfolio structure



Portfolio development



Share of primary and secondary market holdings



Breakdown of private sector securities under the PEPP

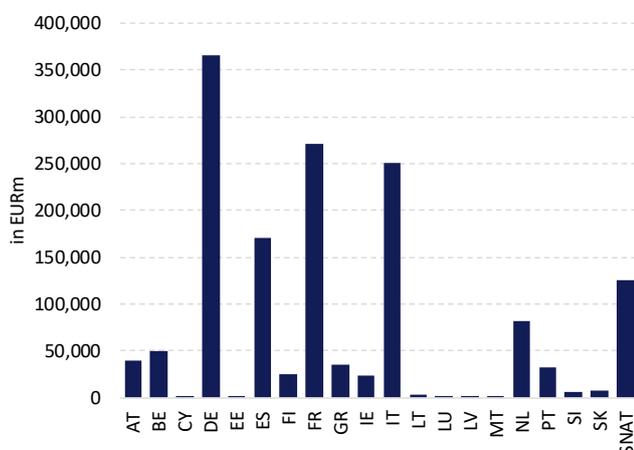
Nov-21	Asset-backed securities		Covered bonds		Corporate bonds		Commercial paper	
	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary
Holdings in EURm	0	0	1,298	4,781	15,101	24,770	3,989	43
Share	0.0%	0.0%	21.4%	78.7%	37.9%	62.1%	98.9%	1.1%

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

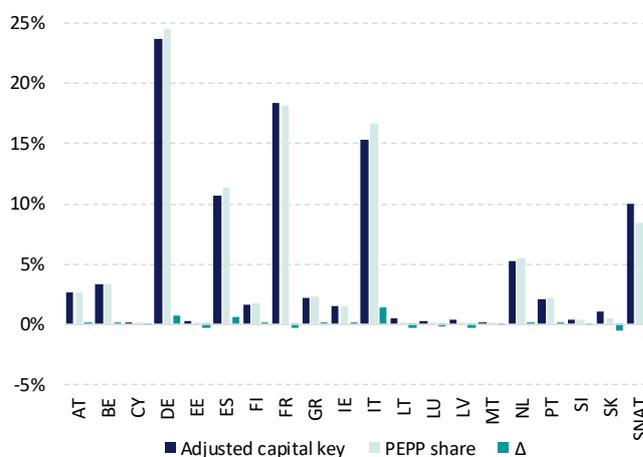
Breakdown of public sector securities under the PEPP

Jurisdiction	Holdings (in EURm)	Adj. distribution key ¹	PEPP share	Deviations from the adj. distribution key ²	Ø time to maturity (in years)	Market average ³ (in years)	Difference (in years)
AT	40,331	2.6%	2.7%	0.1%	8.4	7.0	1.3
BE	50,666	3.3%	3.4%	0.1%	6.7	9.1	-2.4
CY	2,418	0.2%	0.2%	0.0%	8.7	8.1	0.6
DE	366,630	23.7%	24.5%	0.7%	6.2	6.8	-0.6
EE	256	0.3%	0.0%	-0.2%	8.5	6.8	1.7
ES	170,306	10.7%	11.4%	0.6%	8.0	7.6	0.4
FI	25,499	1.7%	1.7%	0.0%	7.1	7.4	-0.3
FR	271,410	18.4%	18.1%	-0.3%	8.2	7.5	0.7
GR	34,935	2.2%	2.3%	0.1%	8.9	9.6	-0.7
IE	23,549	1.5%	1.6%	0.0%	8.8	9.1	-0.3
IT	250,889	15.3%	16.7%	1.5%	7.1	6.9	0.2
LT	2,939	0.5%	0.2%	-0.3%	11.0	10.1	0.9
LU	1,904	0.3%	0.1%	-0.2%	6.5	6.1	0.4
LV	1,625	0.4%	0.1%	-0.2%	9.5	9.2	0.3
MT	480	0.1%	0.0%	-0.1%	10.8	9.1	1.7
NL	81,494	5.3%	5.4%	0.2%	7.4	8.6	-1.2
PT	33,097	2.1%	2.2%	0.1%	6.8	7.2	-0.4
SI	6,143	0.4%	0.4%	0.0%	9.4	9.2	0.1
SK	7,262	1.0%	0.5%	-0.5%	7.5	8.5	-1.0
SNAT	126,308	10.0%	8.4%	-1.6%	10.5	8.5	2.0
Total / Avg.	1,498,141	100.0%	100.0%	0.0%	7.6	7.5	0.1

Distribution of public sector assets by jurisdiction



Deviations from the adjusted distribution key

¹ Based on the ECB capital key, adjusted to include supras ² Based on the adjusted distribution key³ Weighted average time to maturity of the bonds eligible for purchasing under the PEPP

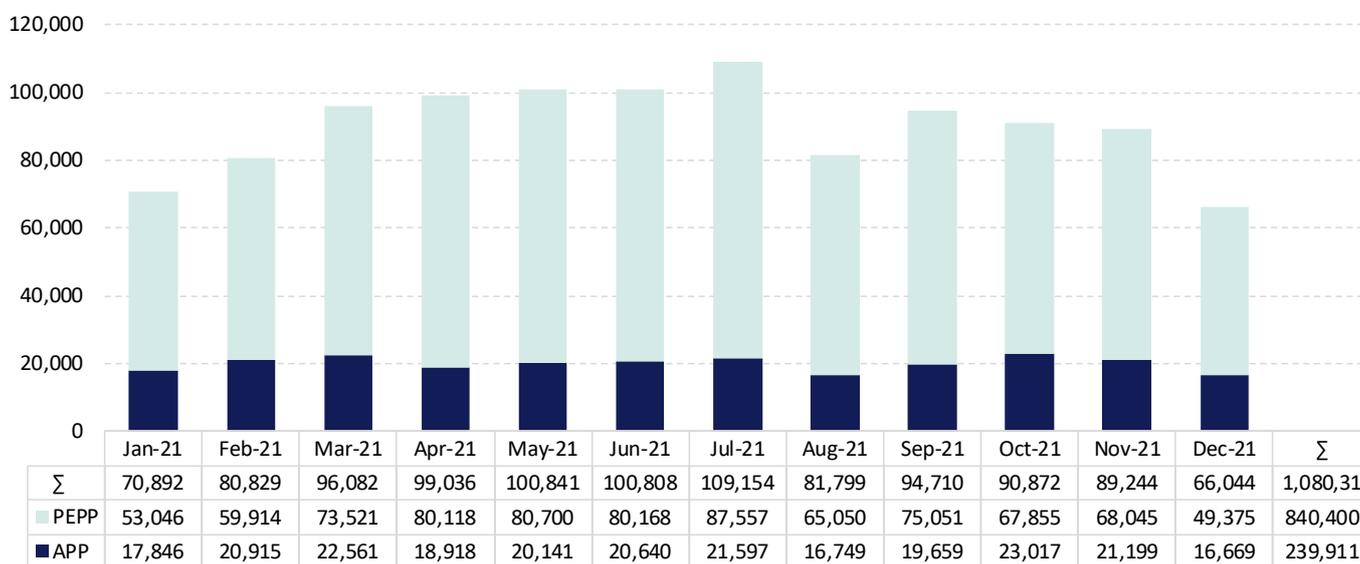
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

Aggregated purchase activity under APP and PEPP

Holdings (in EURm)

	APP	PEPP	APP & PEPP
Nov-21	3,112,499	1,548,190	4,660,689
Dec-21	3,123,456	1,597,565	4,721,021
Δ	+16,669	+49,375	+66,044

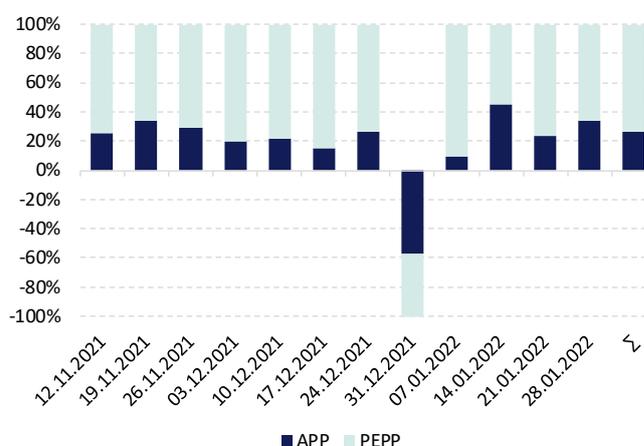
Monthly net purchases (in EURm)



Weekly purchases

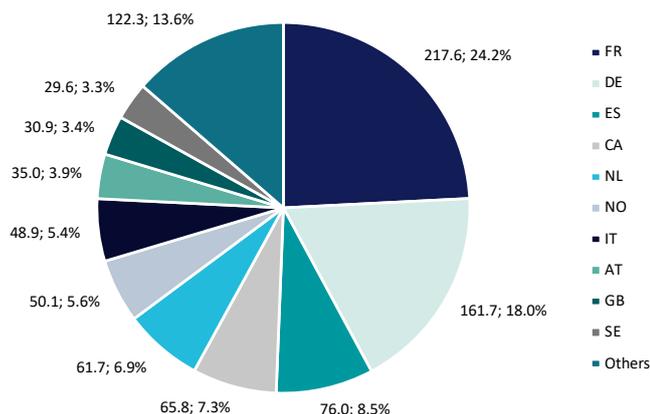


Distribution of weekly purchases

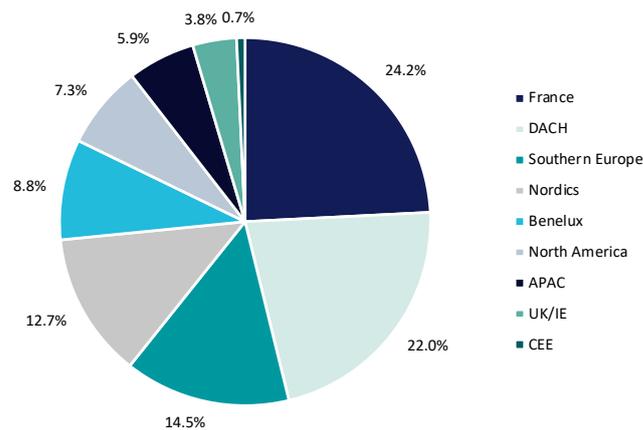


Charts & Figures Covered Bonds

EUR benchmark volume by country (in EURbn)



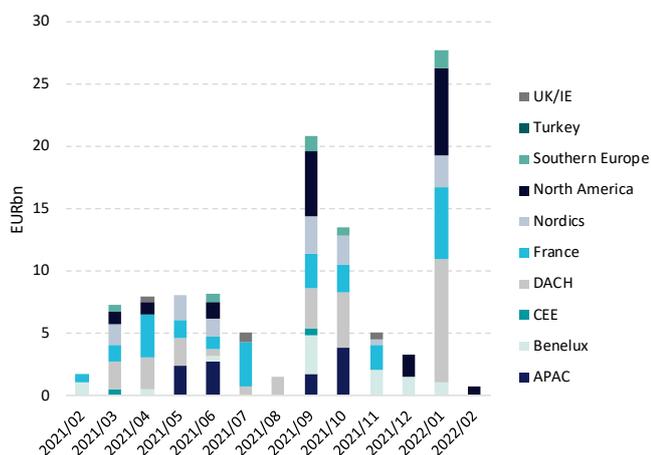
EUR benchmark volume by region (in EURbn)



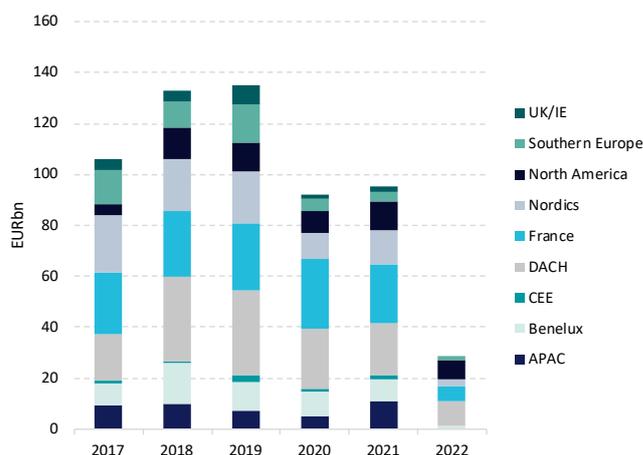
Top-10 jurisdictions

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	217.6	209	11	0.93	10.2	5.7	0.83
2	DE	161.7	238	16	0.62	8.4	4.6	0.41
3	ES	76.0	61	4	1.14	11.8	3.8	1.81
4	CA	65.8	55	0	1.16	6.0	3.3	0.21
5	NL	61.7	64	0	0.91	11.7	7.8	0.71
6	NO	50.1	58	9	0.86	7.4	4.1	0.38
7	IT	48.9	58	1	0.81	9.3	4.5	1.25
8	AT	35.0	64	2	0.54	9.9	6.3	0.57
9	GB	30.9	37	1	0.86	8.5	3.5	0.91
10	SE	29.6	36	0	0.82	7.6	3.4	0.41

EUR benchmark issue volume by month

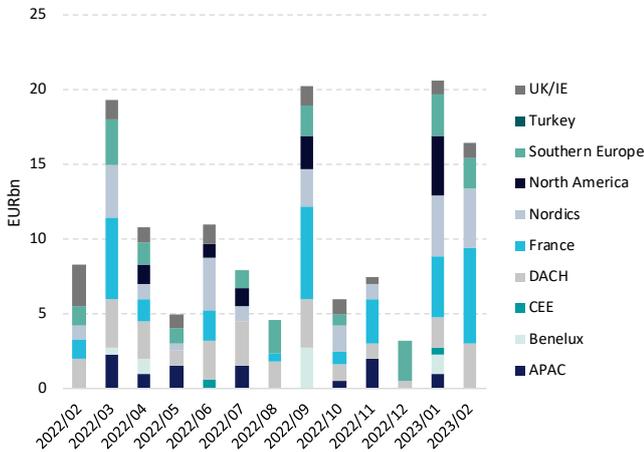


EUR benchmark issue volume by year

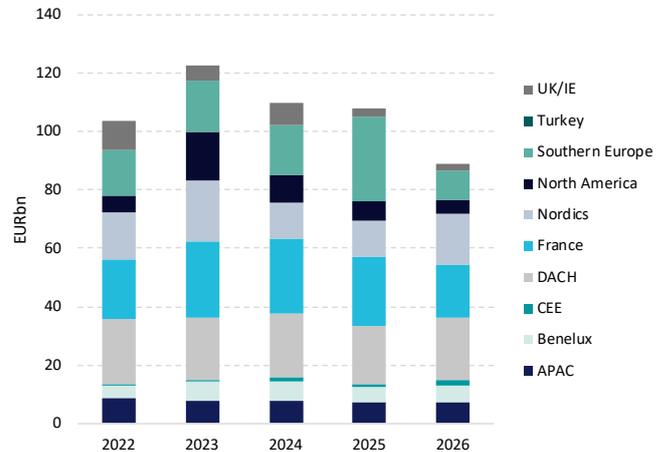


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

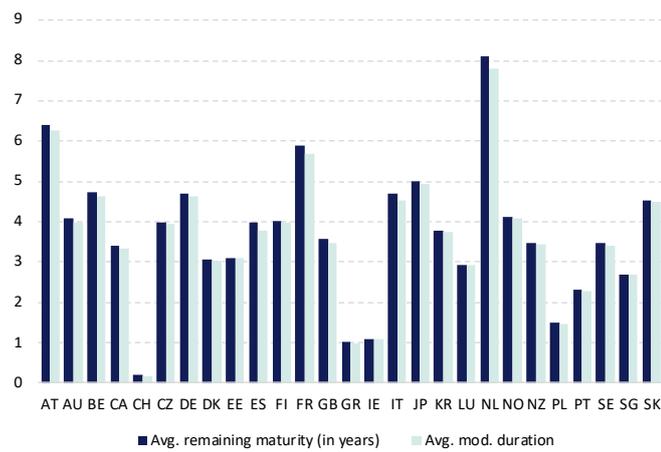
EUR benchmark maturities by month



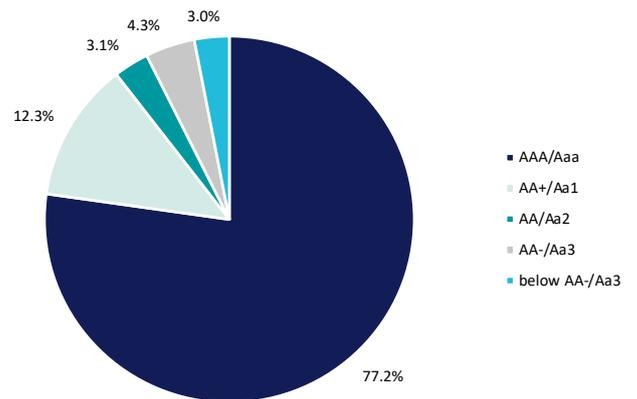
EUR benchmark maturities by year



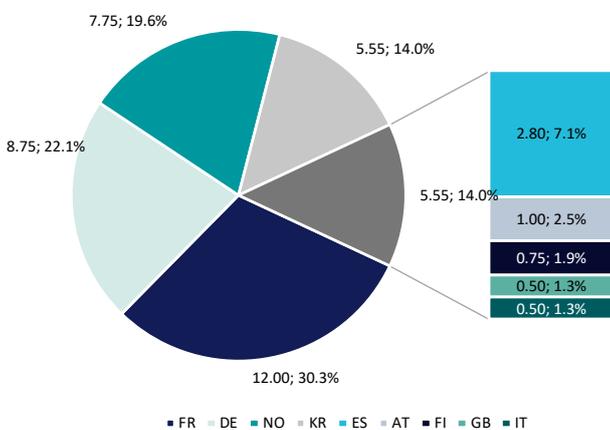
Modified duration and time to maturity by country



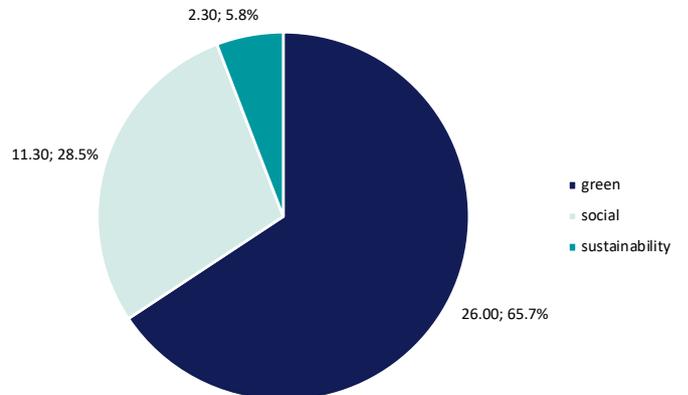
Rating distribution (volume weighted)



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

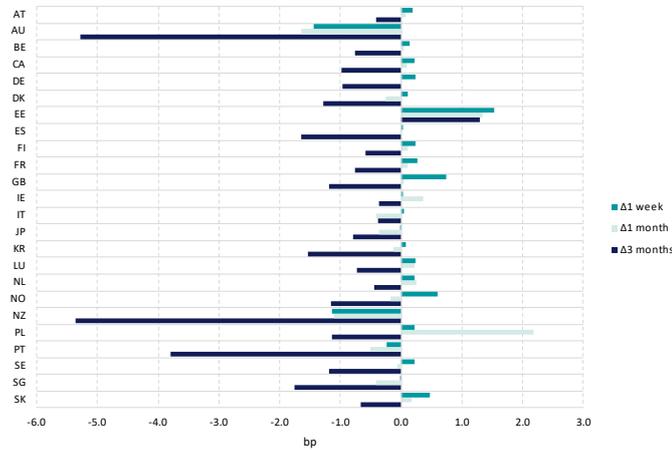


EUR benchmark volume (ESG) by type (in EURbn)

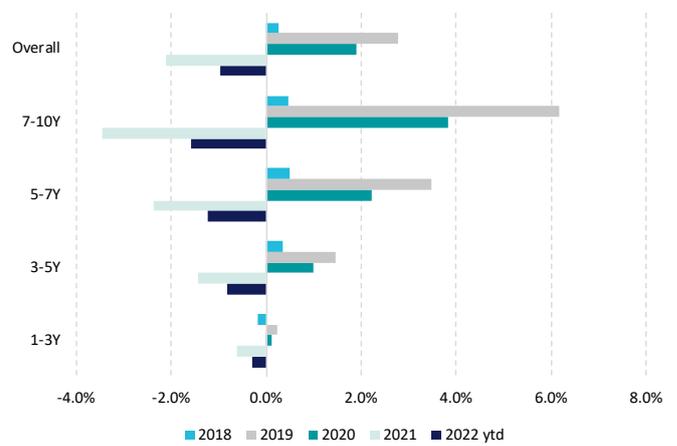


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

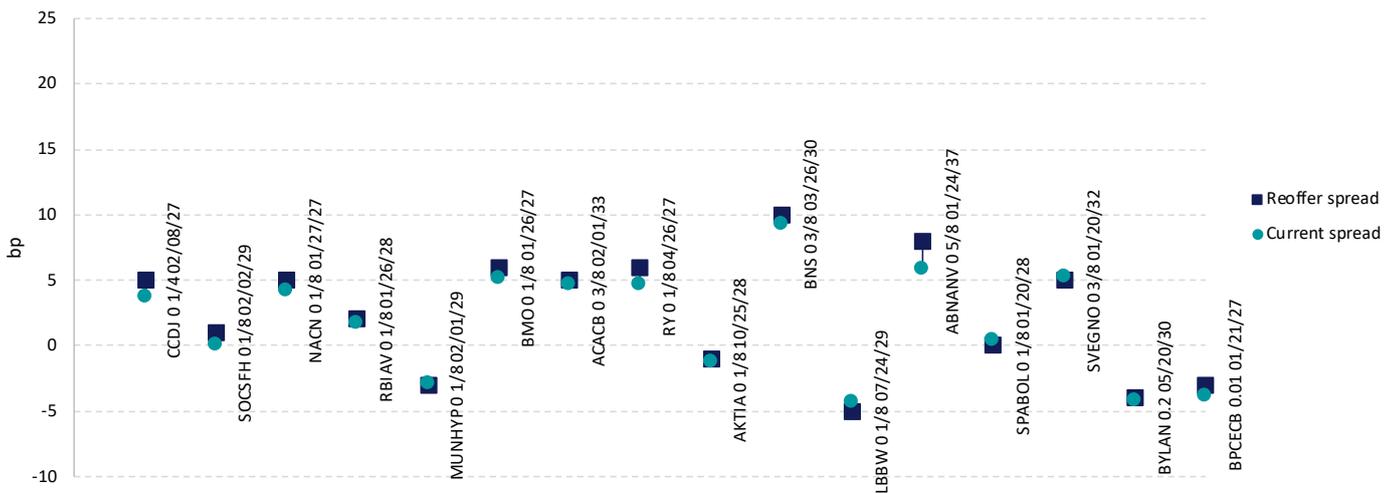
Spread development by country



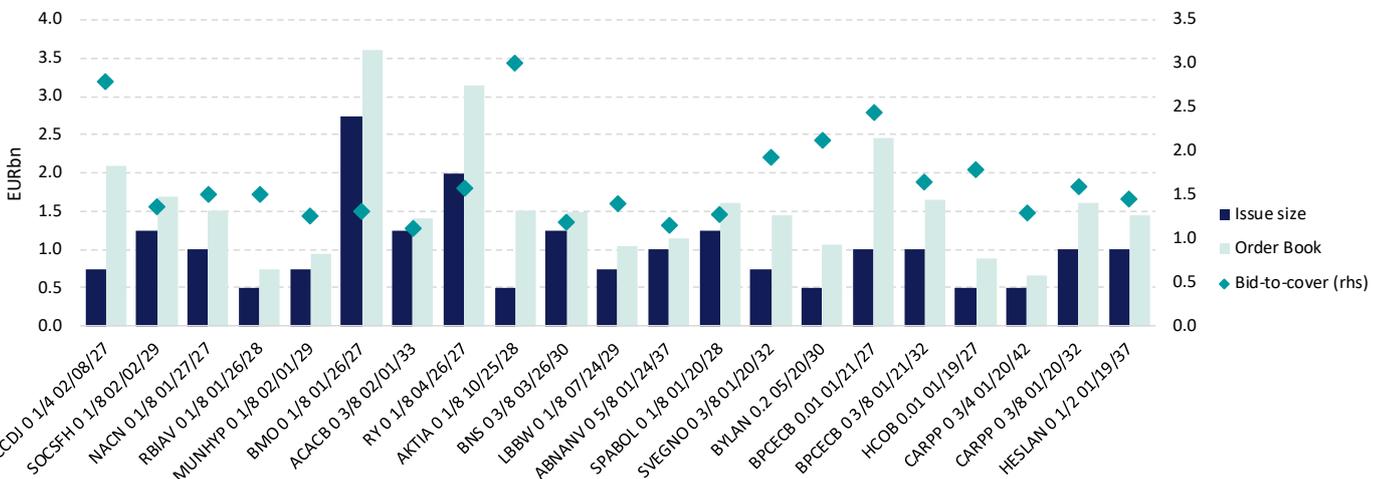
Covered bond performance (Total return)



Spread development (last 15 issues)

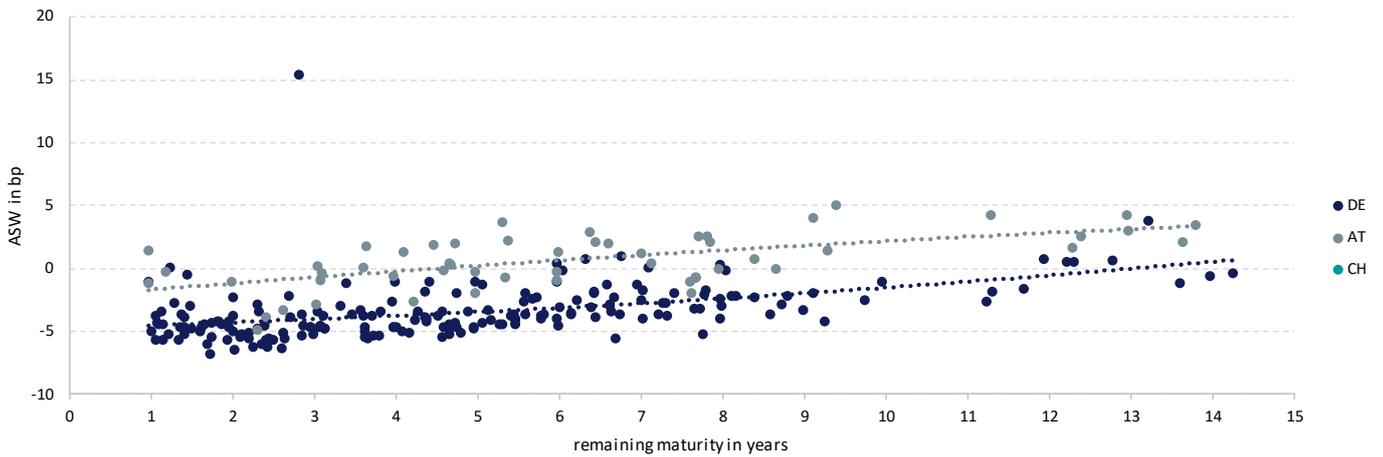


Order books (last 15 issues)

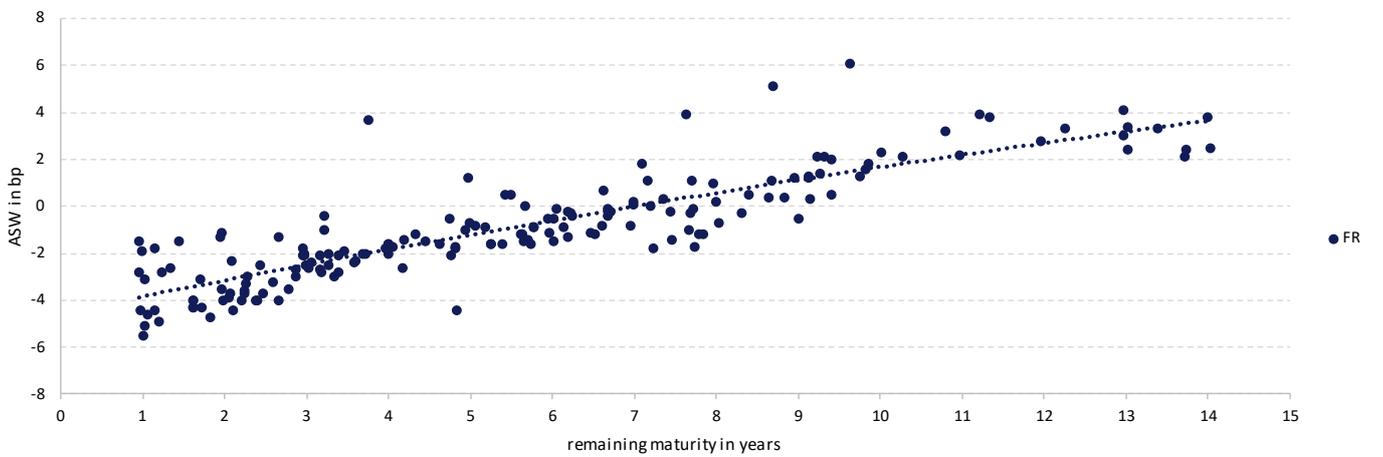


Spread overview¹

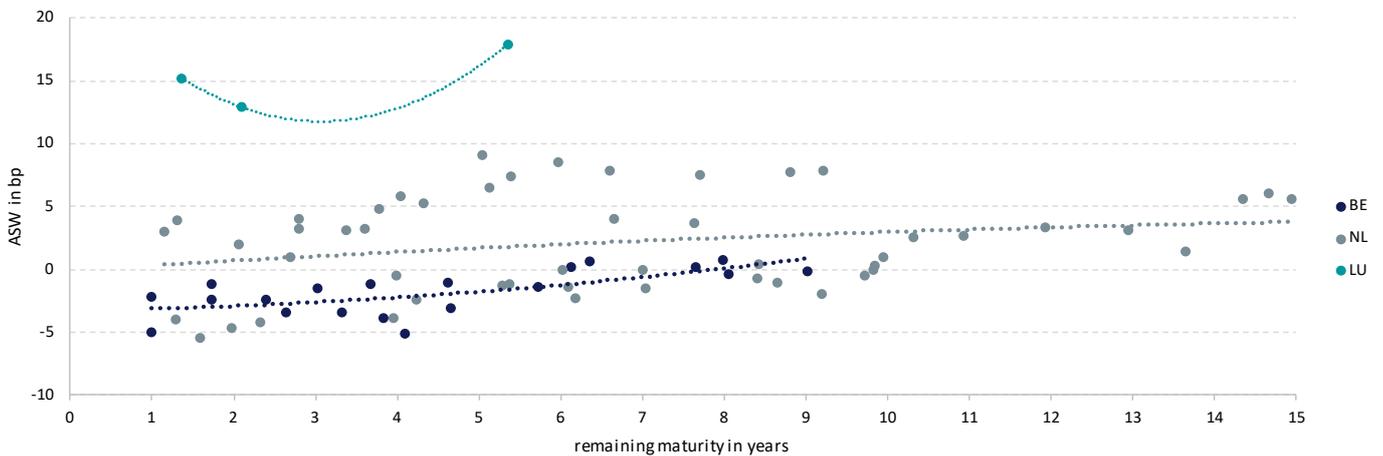
DACH 



France 

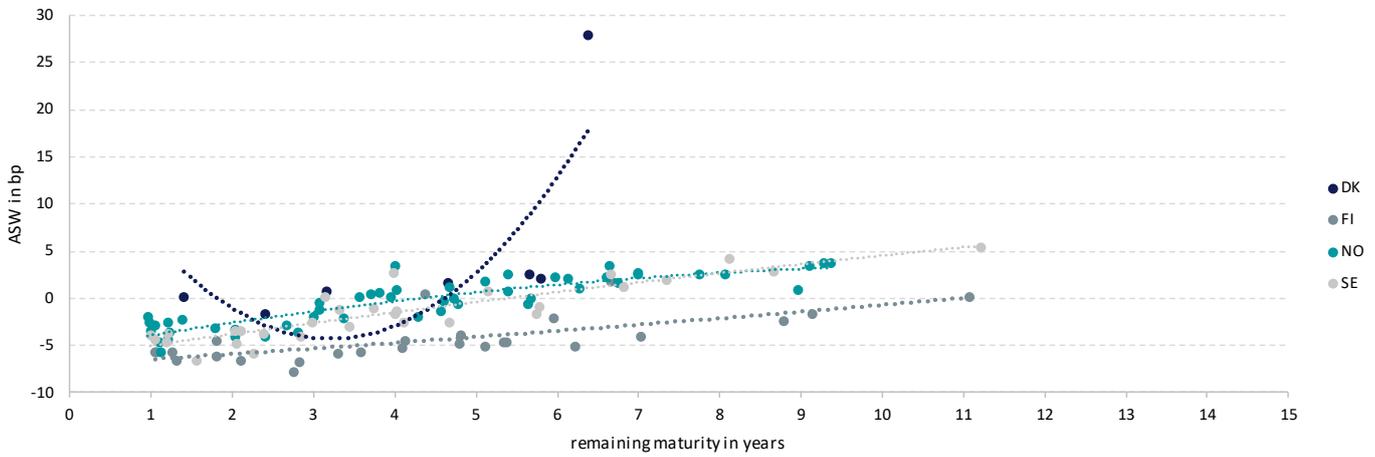


Benelux 

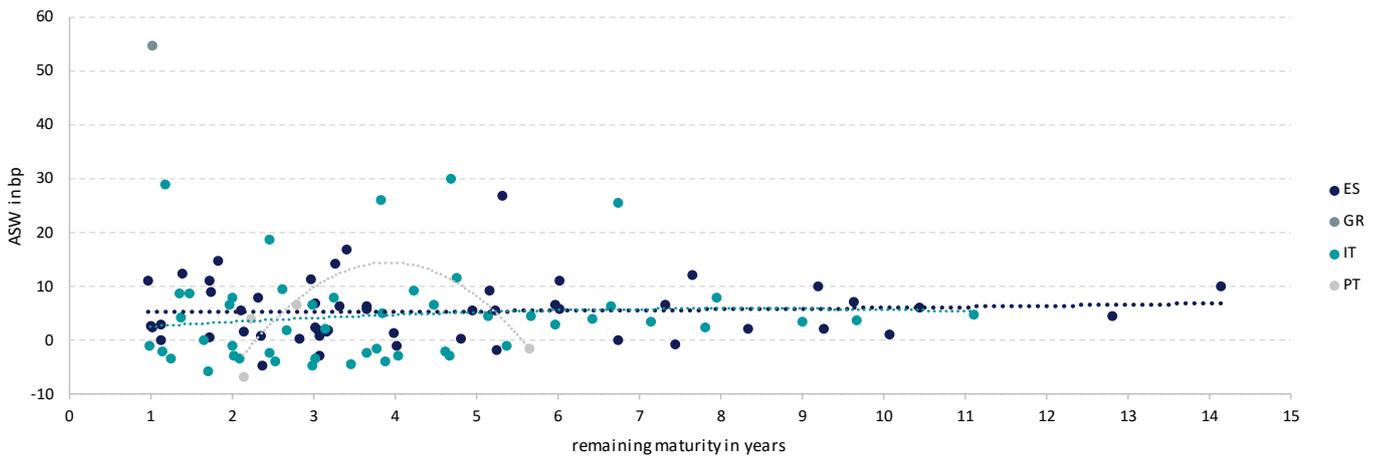


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research ¹Time to maturity 1 ≤ y ≤ 15

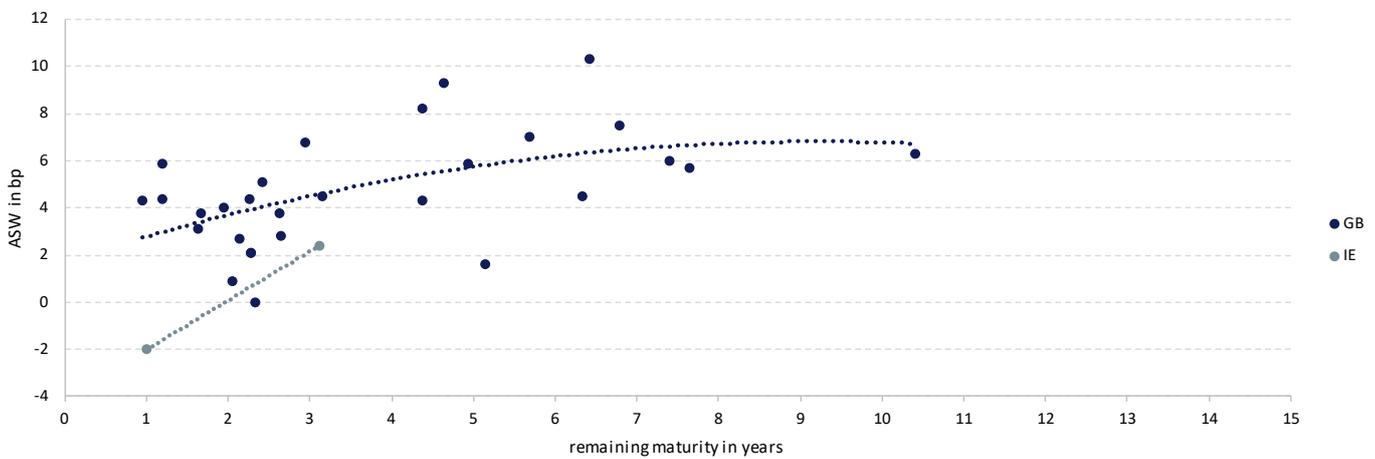
Nordics 🇩🇰 🇫🇮 🇳🇴 🇸🇪



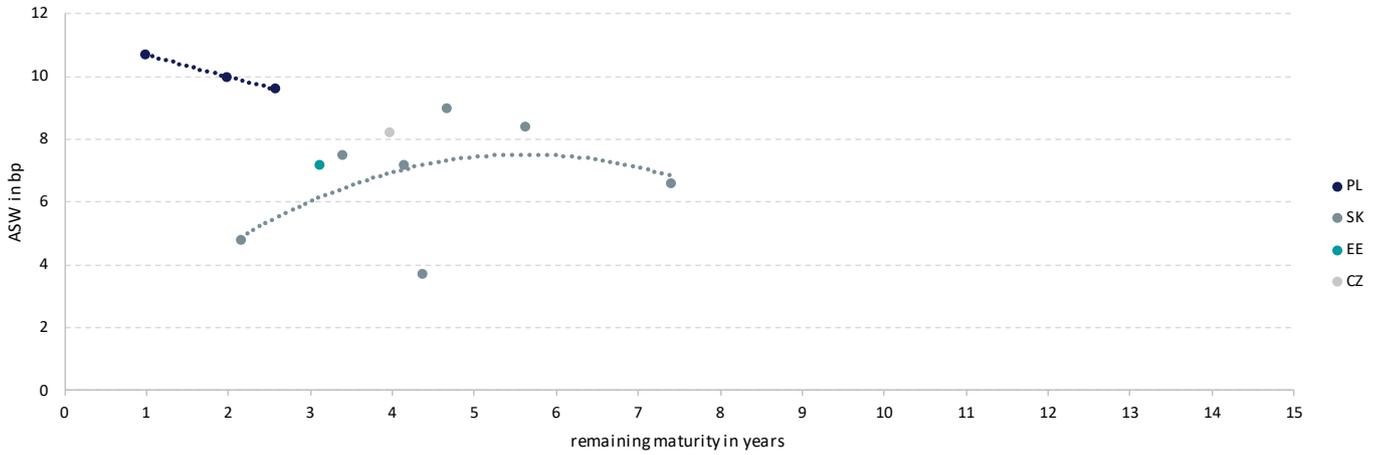
Southern Europe 🇪🇸 🇬🇷 🇮🇹 🇵🇹



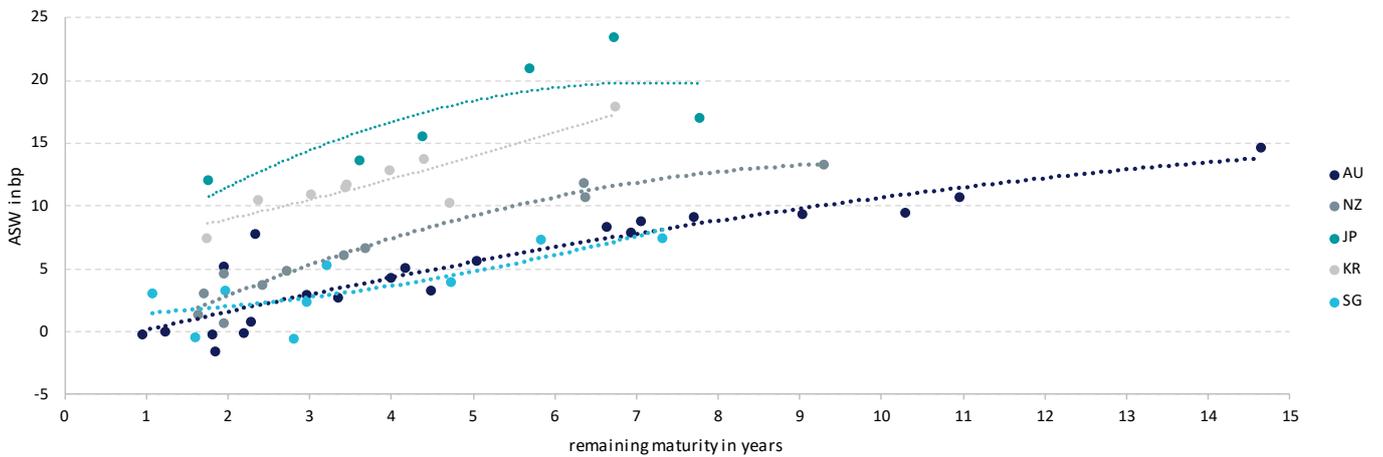
UK/IE 🇬🇧 🇮🇪



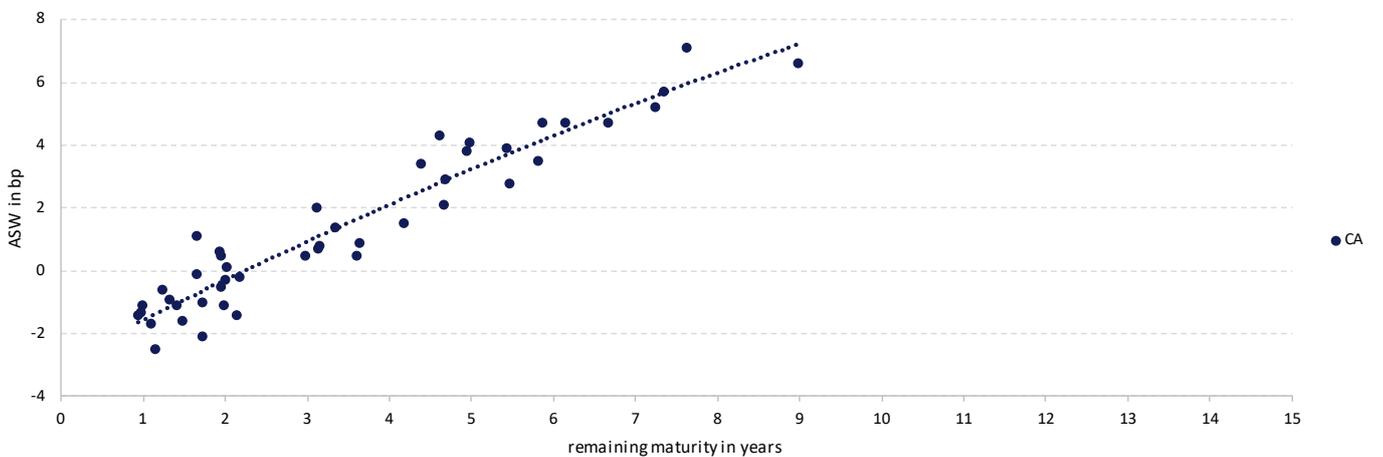
CEE 



APAC 



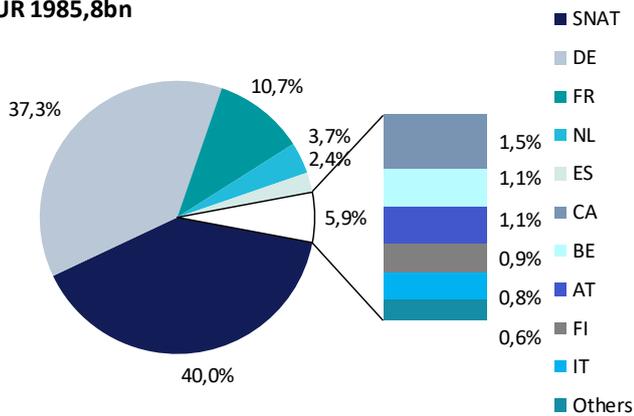
North America 



Charts & Figures SSA/Public Issuers

Outstanding volume (bmk)

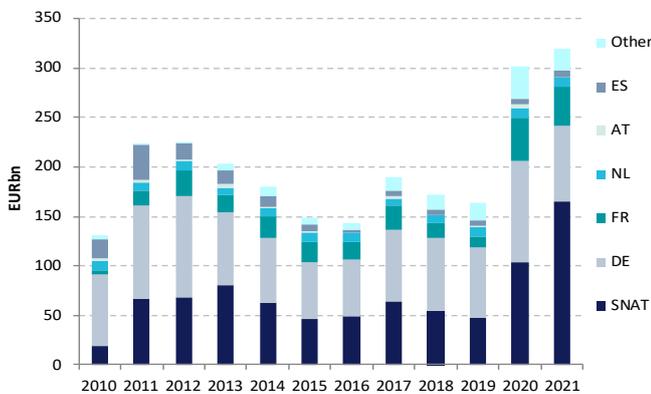
EUR 1985,8bn



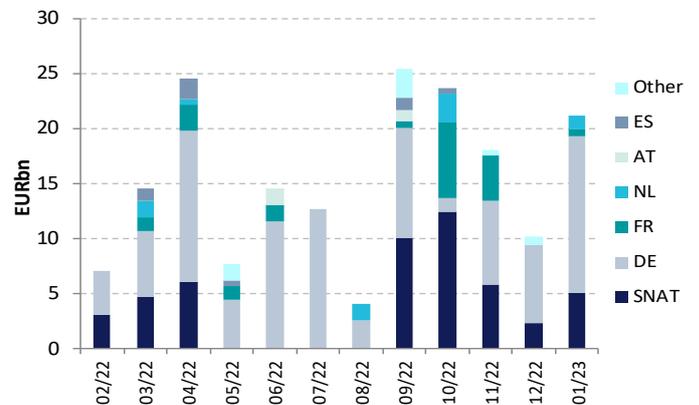
Top 10 countries (bmk)

Country	Vol. (€bn)	No. of bonds	ØVol. (€bn)	Vol. weight. ØMod. Dur.
SNAT	794,2	195	4,1	8,6
DE	740,9	574	1,3	6,9
FR	212,7	148	1,4	5,7
NL	73,7	69	1,1	6,7
ES	46,8	59	0,8	5,0
CA	30,7	21	1,5	5,5
BE	21,7	25	0,9	13,7
AT	21,2	23	0,9	4,9
FI	17,0	21	0,8	6,2
IT	15,0	19	0,8	5,5

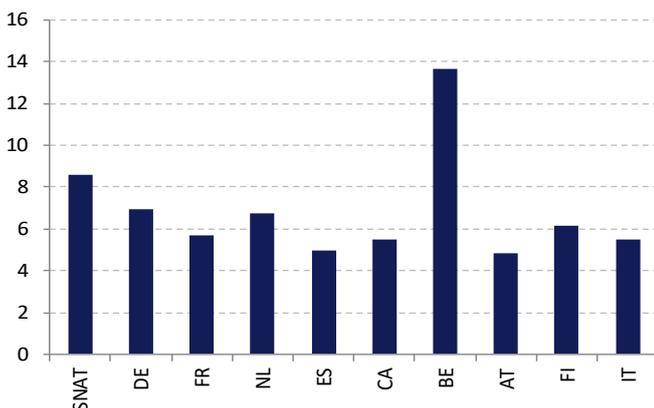
Issue volume by year (bmk)



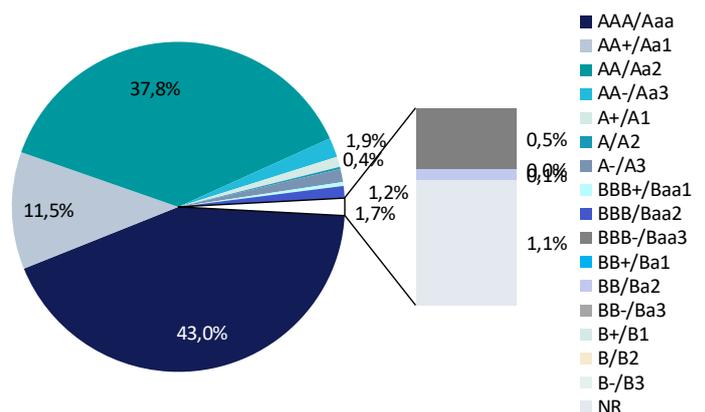
Maturities next 12 months (bmk)



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



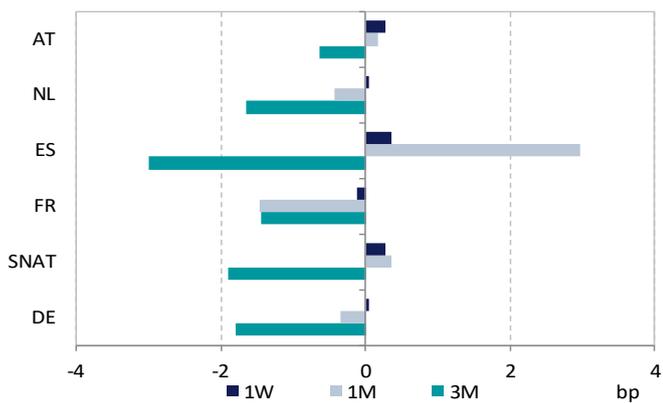
Rating distribution (vol. weighted)



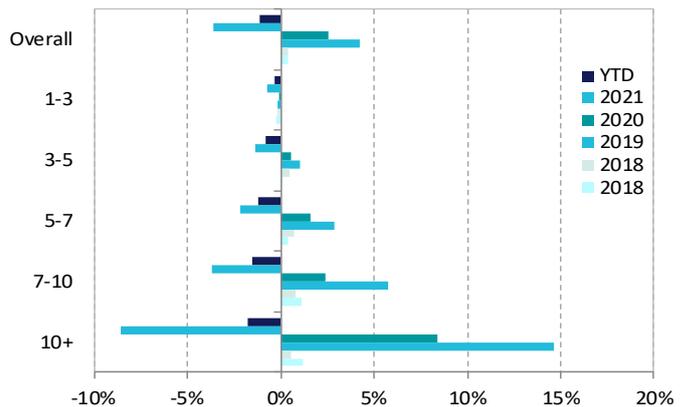
Spread development (last 15 issues)



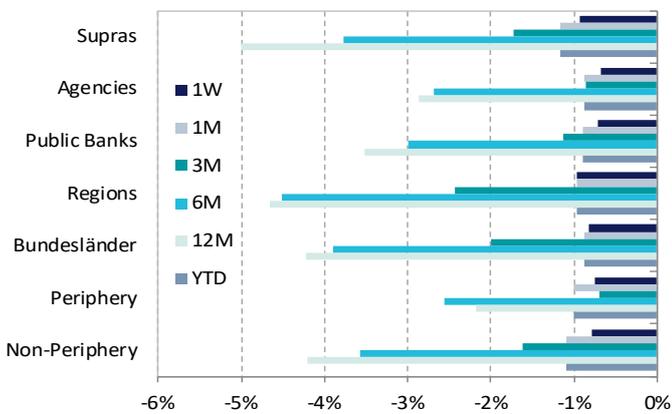
Spread development by country



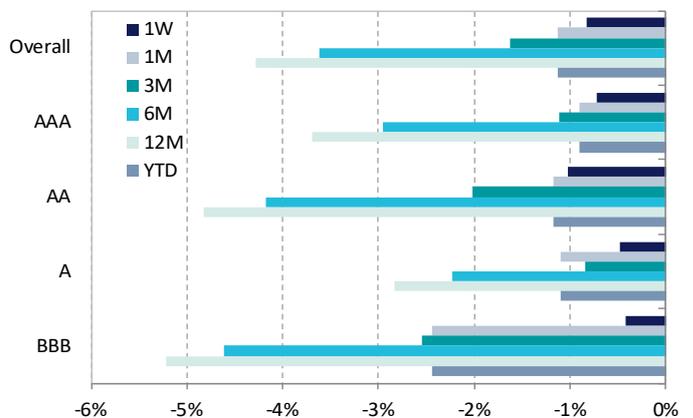
Performance (total return)



Performance (total return) by regions

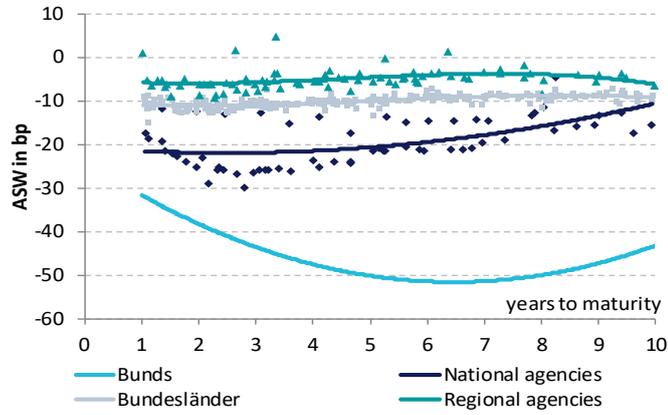


Performance (total return) by rating

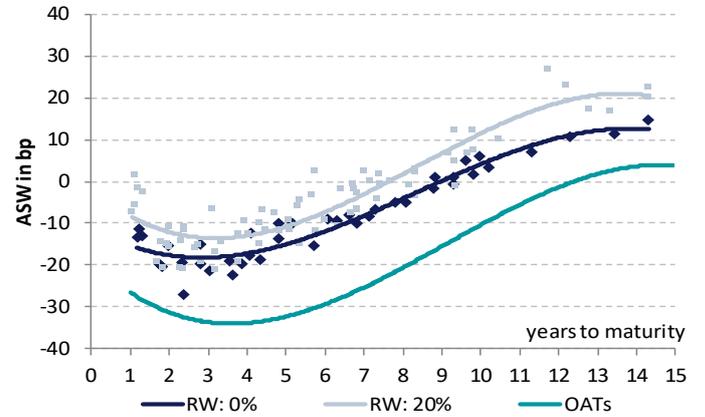


Source: Bloomberg, NORD/LB Markets Strategy & Floor Research

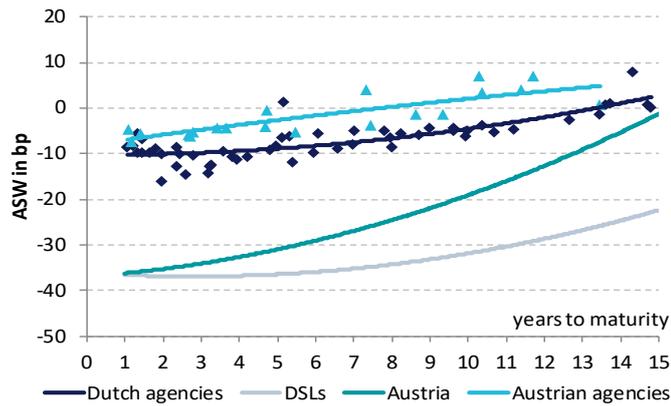
Germany (by segments)



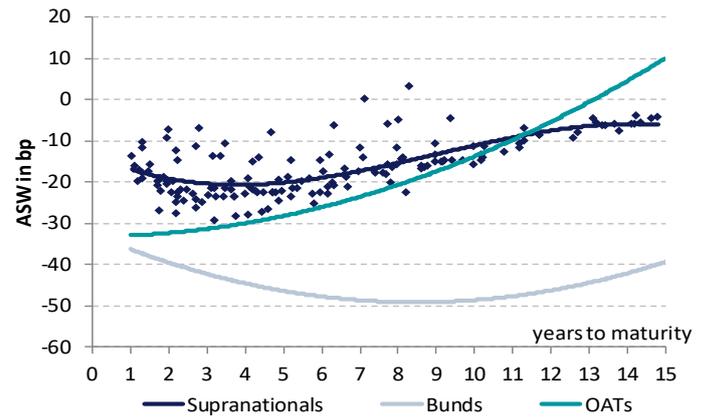
France (by risk weight)



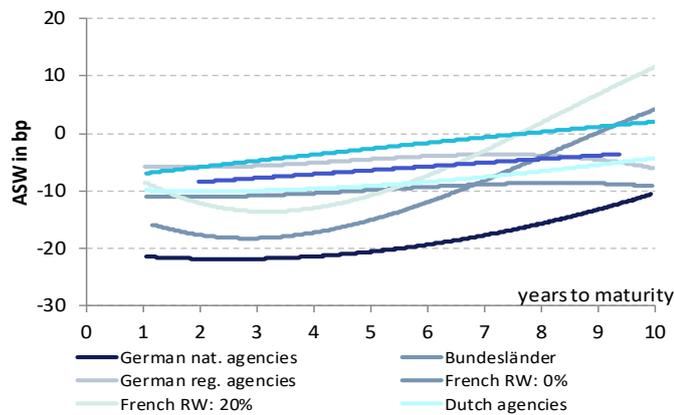
Netherlands & Austria



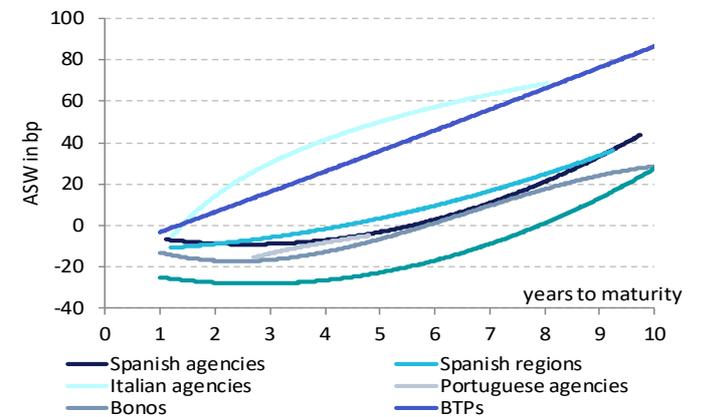
Supranationals



Core



Periphery



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

Appendix

Overview of latest Covered Bond & SSA View editions

Publication	Topics
03/2022 ♦ 26 January	<ul style="list-style-type: none"> ECB preview: 10y Bund spotted in positive terrain. What's next? EUR benchmark segment in Canada: our supply forecast already null and void
02/2022 ♦ 19 January	<ul style="list-style-type: none"> Spotlight on the EUR benchmark segment: a look at the covered bond markets in Belgium and the Netherlands 24th meeting of the Stability Council (Dec. 2021)
01/2022 ♦ 12 January	<ul style="list-style-type: none"> Covered Bonds Annual Review 2021 The Moody's covered bond universe – an overview SSA Annual Review 2021: Record after record
40/2021 ♦ 15 December	<ul style="list-style-type: none"> ECB preview: End of PEPP, booster for APP?! Our view of the covered bond market in 2022 SSA Outlook 2022: Public sector caught between ECB & COVID
39/2021 ♦ 08 December	<ul style="list-style-type: none"> The ECB, monetary policy and covered bond market: Hypothetical "What if...?" considerations The Moody's rating approach
38/2021 ♦ 01 December	<ul style="list-style-type: none"> United Kingdom: Spotlight on the EUR benchmark segment Beyond Bundeslaender: Region Pays de la Loire (PDLL)
37/2021 ♦ 24 November	<ul style="list-style-type: none"> Benchmark deals outside the euro: momentum has returned! Transparency regulations under Section 28 of the Pfandbriefgesetz (PfandBG - German Pfandbrief Act) Q3 2021 Beyond Bundeslaender: Auvergne-Rhône-Alpes Region (ARA)
36/2021 ♦ 17 November	<ul style="list-style-type: none"> Primary market forecast 2022: time for a comeback? Development of the German property market Beyond Bundeslaender: Spotlight on Belgian regions
35/2021 ♦ 10 November	<ul style="list-style-type: none"> PEPP approaching notional end – will the APP be pepped up? Spain's major move – will the amended covered bond legislation breathe new life into the market?
34/2021 ♦ 03 November	<ul style="list-style-type: none"> Repayment structures on the covered bond market: EU harmonisation is already leaving its mark Beyond Bundeslaender: Spanish regions in the spotlight
33/2021 ♦ 27 October	<ul style="list-style-type: none"> Insurance firms as covered bond investors: A look at Solvency II and EIOPA statistics The Scope rating approach
32/2021 ♦ 20 October	<ul style="list-style-type: none"> ECB preview: interim step before a landmark December? ECBC publishes annual statistics for 2020 Covered bonds in the context of the ECB collateral framework
31/2021 ♦ 22 September	<ul style="list-style-type: none"> Covered bond primary market: a September to remember Announcement: Issuer Guide German Laender 2021
30/2021 ♦ 15 September	<ul style="list-style-type: none"> Transparency requirements § 28 PfandBG Q2 2021 Fitch: rating approach covered bonds Update: Joint Laender (Ticker: LANDER)

Appendix

Publication overview

Covered Bonds:

Issuer Guide Covered Bonds 2021

Risk weights and LCR levels of covered bonds

Transparency requirements §28 PfandBG

Transparenzvorschrift §28 PfandBG Sparkassen (German only)

SSA/Public Issuers:

Issuer Guide – German Bundeslaender 2021

Issuer Guide – Canadian Provinces & Territories 2020

Issuer Guide – Supranationals & Agencies 2019

Issuer Guide – Down Under 2019

Fixed Income:

ESG update

Analysis of ESG reporting

ECB decision: PEPP benched for now, APP comes in as Point Guard

ECB holds course, but ups the ante – PEPP running until 2022

ECB launches corona pandemic emergency

Appendix

Contacts at NORD/LB

Markets Strategy & Floor Research



Melanie Kiene

Covered Bonds

+49 172 169 2633

melanie.kiene@nordlb.de



Dr Frederik Kunze

Covered Bonds

+49 172 354 8977

frederik.kunze@nordlb.de



Dr Norman Rudschuck

SSA/Public Issuers

+49 152 090 24094

norman.rudschuck@nordlb.de

Sales

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

Origination & Syndicate

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

Treasury

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

Trading

Covereds/SSA	+49 511 9818-8040
Financials	+49 511 9818-9490
Governments	+49 511 9818-9660
Laender/Regionen	+49 511 9818-9550
Frequent Issuers	+49 511 9818-9640

Sales Wholesale Customers

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

Disclaimer

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

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

The present information does not constitute financial analysis within the meaning of Art. 36 (1) of the Delegate Regulation (EU) 2017/565, but rather represents a marketing communication for your general information within the meaning of Art. 36 (2) of this Regulation. Against this background, NORD/LB expressly points out that this information has not been prepared in accordance with legal provisions promoting the independence of investment research and is not subject to any prohibition of trading following the dissemination of investment research. This information also constitutes an investment recommendation or investment strategy recommendation within the meaning of Market Abuse Regulation (EU) No. 596/2014 and complies with the applicable provisions of this regulation and Delegated Regulation (EU) 2016/958 as well as the Securities Trading Act (see the supplementary details at the end of this information).

This information has been prepared by the Markets Strategy & Floor Research division, which is organisationally assigned to the Markets trading division within NORD/LB and which offers comprehensive securities services to the clients of the bank. Information may therefore be exchanged between the Floor Research and Trading divisions which may influence the content of this information. Against this background, the possibility cannot be ruled out that NORD/LB has its own holdings in the financial instruments described herein or in the issuers described herein and participates in the issue of such financial instruments as well as providing other services to such issuers or has other financial interests in these financial instruments or issuers. It also cannot be ruled out that the remuneration of the employees of the Markets Strategy & Floor Research division is indirectly linked to the overall performance of the Markets division, however, a direct linking of remuneration to transactions in investment services or trading fees is prohibited. Against this background, there are potential conflicts of interest that could fundamentally influence the objectivity of the recommendations contained herein.

NORD/LB has, however, taken extensive precautions to deal with potential conflicts of interest and to avoid them:

Arrangements for dealing with and avoiding conflicts of interest and for the confidential treatment of sensitive client and business data:

Business areas that may have regular access to sensitive and confidential information are classified as confidentiality areas by the Compliance Office and separated from other areas in terms of function, location and technical data processing measures. The trading division (Markets) is classified as such a confidentiality area. The exchange of information between individual confidentiality areas requires the approval of the Compliance Office.

The forwarding of confidential information which may have an impact on securities’ prices is monitored by the NORD/LB Compliance Office, which is independent of the trading, business and settlement departments. The Compliance Office can issue any trading prohibitions and restrictions which may be necessary to ensure that information which may have an influence on securities’ prices is not misused and to prevent confidential information from being passed on to areas which may only use publicly accessible information. Employees of the Markets Strategy & Floor Research unit are obliged to inform the Compliance Office of all transactions (including external) that they carry out for their own account or on behalf of a third party or in the interests of a third party. This will enable the Compliance Office to identify any unauthorised transactions by these employees.

Further information on this can be found in our Conflict of Interest Policy, which is available on request from the NORD/LB Compliance Office.

Supplementary important information:

This information and the details contained herein have been prepared and are provided for information purposes only. It is not intended to be an incentive for investment activities. It is provided for the personal information of the Recipient with the express understanding, acknowledged by the Recipient, that it does not constitute a direct or indirect offer, an individual recommendation, solicitation to buy, hold or sell, an invitation to subscribe or acquire any securities or other financial instruments, nor any measure by which financial instruments might be offered or sold.

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

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

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

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

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

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

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

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

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

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

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

Additional information for Recipients in Australia

NORD/LB IS NOT A BANK OR DEPOSIT TAKING INSTITUTION AUTHORISED UNDER THE 1959 BANKING ACT OF AUSTRALIA. IT IS NOT SUPERVISED BY THE AUSTRALIAN PRUDENTIAL REGULATION AUTHORITY.

NORD/LB does not provide personal advice with this information and does not take into account the objectives, financial situation or needs of the Recipient (other than for the purpose of combating money laundering).

Additional information for Recipients in Austria

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

Additional information for Recipients in Belgium

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

Additional information for Recipients in Canada

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

Additional information for Recipients in Cyprus

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

Additional information for Recipients in the Czech Republic

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

Additional information for Recipients in Denmark

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

Additional information for Recipients in Estonia

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

Additional information for Recipients in Finland

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

Additional information for Recipients in France

NORD/LB is partially regulated by the "Autorité des Marchés Financiers" for the conduct of French business. Details concerning the extent of our regulation by the respective authorities are available from us on request.

The present information does not constitute an analysis within the meaning of Article 24 (1) Directive 2006/73/EC, Article L.544-1 and R.621-30-1 of the French Monetary and Financial Code, but does represent a marketing communication and does qualify as a recommendation pursuant to Directive 2003/6/EC and Directive 2003/125/EC.

Additional information for Recipients in Greece

The information contained herein gives the view of the author at the time of publication and may not be used by its Recipient without first having confirmed that it remains accurate and up to date at the time of its use.

Past performance, simulations or forecasts are therefore not a reliable indicator of future results. Investment funds have no guaranteed performance and past returns do not guarantee future performance.

Additional information for Recipients in Indonesia

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

Additional information for Recipients in the Republic of Ireland

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

Additional information for Recipients in Japan

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

Additional information for Recipients in South Korea

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

Additional information for Recipients in Luxembourg

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

Additional information for Recipients in New Zealand

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

Additional information for Recipients in the Netherlands

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

Additional information for Recipients in Poland

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

Additional information for Recipients in Portugal

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

Additional information for Recipients in Sweden

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

Additional information for Recipients in Switzerland

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

Additional information for Recipients in Singapore

This information is directed only at accredited investors or institutional investors under the Securities and Futures Act in Singapore. This information is intended for general distribution only. It does not constitute investment advice and does not take into account the specific investment objectives, financial situation or particular needs of the Recipient. It is recommended that advice be obtained from a financial adviser regarding the suitability of the investment product in light of the specific investment objectives, financial situation and special needs of the Recipient before agreeing to purchase the investment product.

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

This information is provided for general information only and does not take into account the individual interests or requirements, financial status and investment objectives of any specific investor. Nothing herein should be construed as a recommendation or advice for you to subscribe to a particular investment product. You should not rely solely on the information provided herein when making your investment decisions. When considering any investment, you should endeavour to make your own independent assessment and determination on whether the investment is suitable for your needs and seek your own professional financial and legal advice.

NORD/LB has taken all reasonable care in producing this report and trusts that the information is reliable and suitable for your situation at the date of publication or delivery. However, no guarantee of accuracy or completeness is given. To the extent that NORD/LB has exercised the due care of a good administrator, we accept no responsibility for any errors, omissions, or misstatements in the information given. NORD/LB does not guarantee any investment results and does not guarantee that the strategies employed will improve investment performance or achieve your investment objectives.

Information for Recipients in the United Kingdom

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

Additional information

Time of going to press: 02 February 2022 08:44h (CET)

Disclosure of possible conflicts of interest at NORD/LB in accordance with Section 85 (1) of the German Securities Trading Act (WpHG) in conjunction with Article 20 of the Market Abuse Regulation (EU) No. 596/2014 and Articles 5 and 6 of Regulation (EU) 2016/958.

None

Sources and price details

For the preparation of investment recommendations, we use issuer-specific financial data providers, our own estimates, company information and publicly available media. Unless otherwise stated in the information, price information refers to the closing price of the previous day. Fees and commissions are incurred in connection with securities (purchase, sale, custody), which reduce the return on the investment.

Basis of valuation and frequency of updates

For the preparation of investment recommendations, we use company-specific methods from fundamental securities' analysis, quantitative / statistical methods and models as well as from technical information processes. It should be noted that the results of the information are snapshots and past performance is not a reliable indicator of future returns. The basis of valuation may change at any time and in an unforeseeable manner, which may lead to divergent assessments. The recommendation horizon is 6 to 12 months. The above information is prepared on a weekly basis. Recipients have no right to publish updated information. For more detailed information on our assessment bases, check under: www.nordlb-pib.de/Bewertungsverfahren.

Recommendation system

Positive: Positive expectations for the issuer, a bond type or a bond placed by the issuer.

Neutral: Neutral expectations for the issuer, a bond type or a bond of the issuer.

Negative: Negative expectations for the issuer, a type of bond or a bond placed by the issuer.

Relative Value (RV): Relative recommendation to a market segment, an individual issuer or a range of maturities.

Breakdown of recommendations (12 months)

Positive: 37%

Neutral: 55%

Negative: 8%

Recommendation record (12 months)

For an overview of our overall pension recommendations for the past 12 months, please visit www.nordlb-pib.de/empfehlungsuebersicht_renten. The password is "renten/Liste3".

Issuer / security	Date	Recommendation	Bond type	Cause
-------------------	------	----------------	-----------	-------