



## Covered Bond & SSA View

NORD/LB Markets Strategy & Floor Research

## Agenda

<b>Market overview</b>	
<b>Covered Bonds</b>	<b>3</b>
<b>SSA/Public Issuers</b>	<b>6</b>
<b>PEPP reporting: upswing in public sector assets continues; covered bonds inconsequential</b>	<b>10</b>
<b>ECB tracker</b>	
<b>Asset Purchase Programme (APP)</b>	<b>17</b>
<b>Pandemic Emergency Purchase Programme (PEPP)</b>	<b>22</b>
<b>Aggregated purchase activity under APP and PEPP</b>	<b>25</b>
<b>Charts &amp; Figures</b>	
<b>Covered Bonds</b>	<b>26</b>
<b>SSA/Public Issuers</b>	<b>32</b>
<b>Overview of latest Covered Bond &amp; SSA View editions</b>	<b>35</b>
<b>Publication overview</b>	<b>36</b>
<b>Contacts at NORD/LB</b>	<b>37</b>

### Floor analysts:

**Dr Frederik Kunze**

Covered Bonds

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

**Dr Norman Rudschuck, CIIA**

SSA/Public Issuers

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

**Henning Walten, CIIA**

Covered Bonds

[henning.walten@nordlb.de](mailto:henning.walten@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: Dr Frederik Kunze // Henning Walten, CIIA

#### Primary market: CAFFIL makes second market appearance of 2021

After January got the year off to a sluggish start compared with previous years, there were no indications of a sea change over the past five trading days in the EUR benchmark segment. Only CAFFIL approached investors, successfully placing a public covered bond in the amount of EUR 750m (WNG). The deal featured a term to maturity of 15 years and was met with substantial demand, with the result that the final re-offer spread stood at ms +2bp after tightening by four basis points versus initial guidance (ms +6bp area). The order books for this deal totalled EUR 1.75bn, with the CAFFIL bond bringing the total issuance volume from France to EUR 5bn (five bonds). In fact, this was actually the second bond placed by CAFFIL so far in the current year. It had previously been active on the market on 11 January, offering a covered bond (CAFFIL 0.01 03/18/31) worth EUR 1.5bn with a term of 10.2y to its investors. The re-offer spread for its first deal of 2021 was ms +3bp, while the ASW spread in the secondary market is currently trading two basis points tighter based on Bloomberg screen prices. In view of an initial term of 10.2 years for the January deal, we can actually speak of an even narrower spread level. Looking at the geographical allocation of the issuance volume, it is clear that the largest share went to investors from Germany & Austria (51%), followed by France (24%) and the UK (11%). In terms of investor groups, the largest allocations were snapped up by the categories of banks (59%) in addition to central banks/OI (19%) and insurance/pension funds (16%).

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
CAFFIL	FR	08.02.	FR0014001ZD3	15.0y	0.75bn	ms +2bp	- / Aaa / AA+	-

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

#### Aareal Bank places second Pfandbrief of 2021 in the USD segment

After Deutsche Pfandbriefbank (pbb) turned to the USD segment on 13 January 2021 to place a covered bond worth USD 750m (3y; ms+23bp) on the market, a second Pfandbrief issuer in 2021 – namely Aareal Bank – has now also been active in this sub-market after approaching investors last Wednesday. The covered bond, likewise worth USD 750m, features a term to maturity of four years, which, given the market conditions in the USD segment, could in our view certainly be regarded as unusually long. This is not least due to the fact that it is the first 4y USD Pfandbrief since 2016, when LBBW placed a bond of this term on 08 August 2016. In actual fact, Aareal Bank ranks among the banks with an original funding requirement in USD on account of its commercial real estate financing portfolio in the USA. The bond was eventually priced at ms +24bp following guidance in the area of ms +27bp. In terms of the bond allocation, the largest share was attributable to Germany & Austria (37%) as well as the Nordics (24%) and France (19%). In terms of investor groups, banks (48%) dominated proceedings, followed by the category of asset managers (30%) and central banks/OI (21%).

**Achmea Bank prepares programme for the issuance of soft bullet bonds**

Achmea Bank from the Netherlands [recently announced](#) that it is laying the groundwork for another covered bond programme with the aim of issuing covered bonds in soft bullet format. The bank justifies this step by citing a desire to further diversify its investor base and to introduce a degree of flexibility in its funding with regard to maturities, among other factors. Achmea currently has three EUR benchmarks totalling EUR 1.5bn overall listed on the iBoxx EUR Covered. These were placed under its CPT programme and therefore feature a conditional pass-through structure. With a soft bullet programme now on the horizon, it seems that NN Bank is likely to have company from another Dutch bank in seeking to move away from dealing purely in CPT bonds by adding in soft bullet deals to its issuance portfolio. NN Bank announced this step, which Achmea Bank has now signalled its intention to follow, back in mid-2020 (cf. [Covered Bond & SSA View from 13 May 2020](#)), before issuing a first soft bullet EUR benchmark on the market shortly afterwards. A second soft bullet deal then followed just three months later. Alongside Achmea, Aegon, NIBC and Van Lanschot all have outstanding benchmarks issued exclusively in CPT format on the Dutch market, which remains the most important market for EUR benchmarks with this structure. In contrast, ABN AMRO, Rabobank, de Volksbank and ING issue EUR benchmarks only in soft bullet format. The exclusion of CPT structures from the Eurosystem's purchase activities under the CBPP3 and PEPP has reduced the appeal of these bonds in particular. With regard to the maturities of the bonds issued, from our point of view it can also be stated that the Dutch CPT deals placed since 2015 had a maximum term of ten years, while 17 of the 41 soft bullet benchmarks placed since 2010 featured a term of more than ten years. A switch towards the soft bullet segment would therefore appear to hold some merit, especially in the current yield landscape, in order to offer investors longer maturities and therefore higher yields as a result.

**Sweden: S&P assesses harmonisation plans for Swedish legislation**

In a recent sector report, the risk experts from S&P offered their views on the harmonisation proposals put forward by the Swedish government. Yesterday, on Tuesday, the official deadline elapsed for comments on the Swedish government's adjustment proposals for Swedish covered bond legislation presented back in November 2020 in connection with the harmonisation efforts of the European covered bond market. In commenting on the legislative proposal, which among other aspects provides for adjustments to LTV guidelines and coverage requirements as well as specifications to the 180-day liquidity buffer and potential maturity extensions, S&P takes a critical view of the latter due to the fact that the proposal does not offer sufficient transparency with regard to the events that trigger a delay to repayments, while it is additionally not clear whether the repayment hierarchy would remain unchanged in this instance either. Nevertheless, S&P takes the view that its own assessment of the Swedish legislation, namely that it offers a very resolute legal framework for the issuance of covered bonds, is supported by the Swedish government's proposal.

**France: Moody's comments on revised guidelines to reduce risks linked to housing loans**

Moody's has focused on the new guidelines for minimum standards in granting housing loans in France as part of a recent Sector Comment. In the context of potential macroprudential risks, the guidelines published at the end of January 2021 by the Haut Conseil de Stabilité Financière (HCSF), which take binding legal effect from the summer, deal with new lending in the real estate segment and target a maximum value for monthly loan payments of 35% of monthly household income (expressed in the form of the debt-service-to-income ratio). Moreover, the maximum loan term is to be limited to 25 years upon conclusion of the agreement. In terms of aspects such as the size of the debt-service-to-income ratio, among others, the directive is less strict than the predecessor version from 2019, which was set at 33%. However, the rating experts have nevertheless identified a reduction in the risks arising from the real estate sector for banks due to the implementation of this measure. The ultimate aim of the guidelines, which were previously amended in 2019, has been to prevent any deterioration of lending standards that may arise as a result of excessive lending activities.

**Spain: S&P offers assessment of covered bond market – Moody's comments on Spanish central bank proposal to mitigate macroprudential risks**

With an outstanding volume of EUR 89bn as at year-end 2020, Spain ranks among the largest EUR benchmark jurisdictions. For the current year, however, we are forecasting significant negative net supply (EUR -11.4bn), a development which we would put down to issuers opting to focus on meeting MREL/TLAC requirements. In this context, the largest benchmark issuer in Spain, Banco Santander, recently announced that it would be using its funding activities to build up a regulatory buffer. Nevertheless, 2021 is likely to be a lively year – albeit for other reasons – on the covered bond market. S&P has also taken a look at this market and recently published a detailed assessment. In retrospect, there were no rating downgrades for Spanish covered bonds in 2020 despite revised outlooks. For 2021, the rating experts highlight in particular the required adjustments to national laws within the context of EU harmonisation efforts, which must be implemented by the deadline of 08 July 2021. Spain is one of the countries with a significant need for adjustment. In this regard, the legal adjustments encompass both liquidity requirements and the introduction of a cover register. The departure from the previous regulation, according to which the entire loan book is compared with the outstanding bonds, could also have an impact on actual overcollateralisation levels and possibly limit any uplifts too. In terms of the covered bond ratings, S&P emphasises the importance of the sovereign rating. With a sovereign rating of A (outlook: negative), the best-possible rating that Spanish issuers can achieve is AA+ (four notches above the sovereign rating), which simultaneously indicates that Spanish bonds would be susceptible in the event of a rating downgrade for Spain. Moody's recently examined a proposal on the part of the Spanish central bank, after Banco de España presented a draft regulation with the aim of limiting macroprudential risks. Concentration risks should be kept in check by way of increased capital requirements for individual sectors, while the draft regulation also provides for stricter requirements with regard to income-based debt ratios and LTVs for new lending business, among other measures. Moody's sees improved credit quality for covered bonds via the mechanism of action on default probability. The consultation phase for the central bank's regulation remains open until 23 February 2021.

## Market overview

### SSA/Public Issuers

Author: Dr Norman Rudschuck, CIIA

#### **Coronavirus: KfW business volume at record high**

Last week, KfW reported a record high and as a result, it was the talk of the town: its promotional business reached EUR 135.3bn (+75%) in 2020. The main drivers of the strong growth were the measures to mitigate the economic impacts of the coronavirus pandemic in Germany and abroad, which totalled EUR 50.9bn (after cancellations and waivers for commitments of EUR 10.8bn) and consequently made up 38% of the total business volume. KfW reported in its press release that in Germany alone it committed around one million loans, grants and other financings for a total amount of EUR 106.4bn last year. By comparison, the special programmes after the financial crisis now seem rather modest, at just EUR 14bn. According to KfW records, the whole “Aufbau Ost” (rebuilding eastern Germany) programme received a total of only EUR 82.5bn between 1990 and 2000. The promotional programmes in the area of energy-efficient construction and refurbishment, which in the housing segment recorded an increase of 140% to EUR 26.8bn, also contributed to the growth of promotional business volume in Germany. Commitments by KfW Capital amounted to EUR 871m in 2020. KfW’s financial markets business sector supported climate change mitigation and environmental protection by investing EUR 400m in green bonds. For 2021, KfW once again plans to make a new investment of EUR 400m for the green bond portfolio. Customers on the capital markets are of course most interested in the refinancing that funds its promotional business. Here, KfW raised funds of EUR 66.4bn on the international capital markets in 2020. There were 172 transactions in 14 different currencies overall. Making up 12.6% of the refinancing, 14 “Green Bonds – Made by KfW” contributed EUR 8.3bn, which is more than ever before. In comparison with the previous year, KfW issued around EUR 700m more in EUR (share: 64%). With a share of 24%, slightly below the 2019 level, the USD was the second most important currency and continues to play a key role for KfW. As part of KfW’s Coronavirus Special Programme, new funding sources were tapped with access to federal auctions via the federal Economic Stabilisation Fund (ESF) and participation in the targeted longer-term funding of the Eurosystem via TLTRO III. A reminder: these two programmes were responsible for KfW’s reduced funding volume. Looking ahead to the current year, long-term borrowing via the capital markets of EUR 70bn to EUR 80bn is planned; the selected range is wider than in the past, as KfW’s participation in TLTRO in 2021 is still undecided. The use of additional funds from the ESF depends on the development of KfW’s Coronavirus Special Programme, which is expected to run until the end of June 2021. The diversification of products and currencies guarantees continuity and flexibility to achieve the best possible funding results for KfW’s promotional business. Finally, KfW is expecting a profit for 2020, although specific figures will only be published at the end of March.

**KfW: not only a green issuer, but a green investor as well**

By mandate of the German Federal Ministry for the Environment, KfW will remain committed to the green bond market as an investor and thereby contribute to the further development of this market segment. Since April 2015, KfW has been promoting climate change mitigation and adaptation, resource conservation and environmental protection projects through investments in green bonds under a promotional mandate of the German Federal Ministry for the Environment. Green bonds have become established as a capital market-based instrument for financing climate action and environmental protection projects. However, none of this can take place without a certain degree of ambition. In the following, we share some information from the press release: green bonds are an important instrument for raising the capital needed for the transition to an environmentally friendly and climate-neutral economy. Since 2015, KfW has built up a portfolio of green bonds which has now reached its EUR 2bn target and will be maintained at a level of EUR 2bn to EUR 2.5bn going forwards. In its investments, KfW will keep up its strong commitment to high standards, for example with regards to transparency and good reporting on the use of proceeds and the impacts of financed projects. It will also take even greater account of the climate action and sustainability focus of the issuers themselves in its future investment decisions. Jochen Flasbarth, State Secretary at the German Federal Ministry for the Environment, commented: “The trend of the past years has shown that investors have great interest in ecologically sustainable investments. Investors who wish to invest their funds with a view to impact need an offering that is truly in line with green ambitions. At the same time, green bonds are an important instrument for leveraging the enormous amounts we need to mobilise all over the world as we transition to an environmentally friendly and climate-neutral economy. The Ministry for the Environment therefore supports KfW in providing effective impetus as an investor to consolidate the green bond market on a high level in the future as well.” KfW is active in many different areas related to the qualitative green bond market development: it reportedly maintains a dialogue with a wide range of market stakeholders and acts as a point of contact for green bond issuers and other players in the green bond segment, such as financial intermediaries, investors, sustainability rating agencies and other stakeholders. It is also a strong supporter of various initiatives. For example, it has provided its expertise to the Technical Expert Group on Sustainable Finance established by the European Commission. Among other things, this expert group formulated recommendations on the creation of a common voluntary EU Green Bond Standard in the years 2019 and 2020. As a member of the Executive Committee and participant in working groups of the internationally recognised Green Bond Principles since 2015, KfW has been involved in the further development of these voluntary guidelines as well as of further recommendations for a science-based, climate-friendly and sustainable focus of capital market activities. A final remark from Bernd Loewen, Board Member of KfW Group, in charge of Capital Markets: “Green bonds enable an in-depth dialogue between numerous stakeholders on the necessary transition of the economy towards climate neutrality in 2050. This is essential for mobilising the required capital. In order to move forward in the transition we will integrate the overall sustainability and climate action focus of the issuers even more closely into our investment decisions in the future.” In February, our NORD/LB ESG Update will be published as an independent study. It will undoubtedly make for a fascinating read!

**EFSF approves fourth successive reduction of step-up interest margin for Greece**

The Board of Directors of the European Financial Stability Facility (EFSF) has decided to reduce to zero the step-up margin accrued by Greece for the period between 17 June 2020 and 31 December 2020, as part of the medium-term debt relief measures agreed for the country in 2018. The value of this fourth successive reduction amounts to EUR 122.5m. Additionally, as part of the debt relief measures, the European Stability Mechanism (ESM) – acting as an agent for the euro area member states and after their approval – on 22 December 2020 made a transfer to Greece amounting to EUR 644.42m, equivalent to the income earned on SMP/ANFA holdings. ANFA stands for the [Agreement on Net Financial Assets](#). It is an agreement between the national central banks (NCBs) of the euro area and the European Central Bank (ECB), which together form the Eurosystem. The ANFA sets rules and limits for holdings of financial assets which are related to national tasks of the NCBs. Such financial assets of national central banks can be related, for example, to the counterpart to their capital and accounting reserves or other specific liabilities, their foreign reserves and employee pension funds or they can be held for general investment purposes. The Securities Markets Programme (SMP) is the predecessor to the latest purchase programmes. “Greece has continued its reform process under difficult circumstances. The government has taken important steps to improve the business environment and increase the effectiveness of the public administration. In addition, a major reform of the insolvency framework is being implemented. Therefore, the European institutions delivered a positive assessment regarding the completion of Greece’s reform commitments in the first half of 2020. This cleared the way for the next tranche of debt relief measures tied to those commitments,” said ESM Managing Director and EFSF CEO Klaus Regling. He added: “It is essential for Greece to maintain, and where necessary, strengthen reform efforts to further support the economic recovery, improve the resilience of the economy and to underpin the commitment to improve long-term potential growth.” The step-up margin of 2% relates to the EFSF loan of EUR 11.3bn for Greece (part of the second Greek programme), which was used to fund a debt buy-back in 2012. The margin had originally been foreseen to apply to this loan from 2017 onwards. Under the short-term debt-relief measures, the step-up interest margin was reduced to zero for the year 2017. As part of the subsequent medium-term debt relief measures for Greece, the EFSF Board of Directors agreed to a conditional mechanism to reduce to zero the step-up margin starting with the year 2018. For the period until 2022, the margin can be reduced to zero by Board decision. Each half-yearly decision to reduce the margin to zero is based on a positive assessment of Greece’s continued implementation of key reforms adopted under the ESM programme and compliance with its post-programme policy commitments. The reduction of the step-up margin and transfer of SMP/ANFA income equivalent amounts represent – as explained – the fourth tranche of policy-contingent debt relief measures for Greece. The total amount of debt relief applied in all four tranches exceeds EUR 3.4bn.

### Further information on the ANFA

Holding financial assets not relating to monetary policy is an integral part of the functions exercised by central banks in Europe, and precedes the euro. When the monetary union was founded, governments decided to mutualise only those central bank functions and tasks that are necessary to conduct a single monetary policy for the whole euro area. At the same time, they decided to keep NCBs as independent institutions that can continue to perform national tasks provided that they do not interfere with the single monetary policy. In other words, national central banks are financially independent institutions and fulfil monetary policy tasks related to the Eurosystem's primary role of maintaining price stability as well as national tasks. ANFA was established to set an overall limit to the total net amount of financial assets relating to national, non-monetary policy tasks, such that they would not interfere with monetary policy. This principle is laid down in Article 14.4 of the Statute of the European System of Central Banks and the European Central Bank. The [ANFA](#) is reviewed at least every five years.

### Primary market

As at 29 January 2021, KfW's refinancing volume amounted to EUR 14.6bn. We have always reported any major EUR transaction (including taps) in the primary market section of this publication. The EFSF has also completed its first quarter, with market players awaiting further transactions from the EU. At the moment, the primary market appears to be somewhere between frozen and thawing, with only four concluded transactions evident to us. These were a tap each from Berlin, Lower Saxony and Rentenbank as well as only one benchmark deal for our table presented below (Unédic). Let's begin with a brief outline of the biggest deal for the week (Wednesday to Tuesday): Union nationale interprofessionnelle pour l'emploi dans l'industrie et le Commerce, also known as France's National Professional Union for Employment in Industry and Trade, raised EUR 3bn via its social bond (13.3y). UNEDIC achieved this 15bp above the French benchmark (FRTR 1.25% 05/25/34). The books grew to more than EUR 8bn over the course of pricing, meaning the bond ultimately narrowed by 3bp against the guidance. Versus mid swaps, the pricing was around ms +6bp. Despite the EU's SURE bonds, UNEDIC is still among the top three European issuers of social bonds. BERGER opted for a tap of its 8/2040 bond. It sought to raise at least EUR 250m in the region of ms +4bp, but ultimately received EUR 500m at ms +3bp. The books even amounted to over EUR 1.4bn. NIESA unexpectedly decided to top up its 8/2039 bond by no less than EUR 1bn. This was at ms -2bp and therefore also one basis point tighter than the guidance. The books exceeded EUR 1.75bn. Rather as a side note by comparison is RENTEN's tap of EUR 50m for its 2/2030 bond. Yesterday afternoon, the Free and Hanseatic City of Hamburg mandated a consortium for a 20-year Landesschatzanweisung (LSA; State Treasury Note).

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
UNEDIC	FR	09.02.	FR0014001ZY9	13.3y	3.00bn	ms +6bp	AA / Aa2 / -	X

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

## Covered Bonds/SSA

# PEPP reporting: upswing in public sector assets continues; covered bonds inconsequential

Authors: Henning Walten, CIAA // Dr Norman Rudschuck, CIAA

### Higher for longer – ECB adjusts volume and duration of PEPP in December

Since the last comprehensive PEPP reporting by the ECB at the end of November/start of December (cf. [Covered Bond & SSA View of 9 December 2020](#)), the European Central Bank has made further adjustments to the purchase programme set up to combat the consequences of the pandemic. At their meeting on 10 December 2020, the central bankers, as expected, increased the volume of the programme from the previous EUR 1,350bn by a further EUR 500bn. In combination with the expansion of the purchase volume, the instrument was also extended on the time axis. A further nine months were added, meaning that securities are to be purchased under the PEPP until at least March 2022. At the same time, the period during which maturing PEPP securities are to be reinvested was extended until the end of 2023 (+12 months). In contrast with the final ECB meeting in the previous year, the first meeting in 2021 could be described as almost uneventful. In our view, what should be pointed out is that the ECB communicated for the first time in its press release on the decisions taken that not making full use of the amount of EUR 1,850bn was also within the realms of possibility. However, this indication was accompanied by the addition that the ECB was equally prepared to expand the volume once more if it believed that circumstances called for such action (i.e. a 50:50 chance; 'equally' was used in the statement). In our view, these different possible actions were implied in the ECB's toolkit anyway, which is why we do not detect a change of course in the now more comprehensive information provided.

### 44% of EUR 1,850bn already invested

It has meanwhile become established that every two months, we take the publication of the latest comprehensive PEPP report as an opportunity to look at the development and structure of the PEPP. It is now that time again! The charts on which the following information is based are available, as usual, in our [ECB tracker](#). At the end of January 2021, the PEPP volume amounted to EUR 810.2bn and had therefore increased by a further EUR 110bn (+15.7%) or so since the last comprehensive reporting at the turn of the month of November/December. Compared with the APP, which has a volume of EUR 2,926.8bn, the PEPP remains small. Yet, considering the volume purchased in the period during which the two programmes have coexisted, the opposite picture emerges. In the months from March 2020 to January 2021, around 70% of the volume purchased by the ECB was attributable to the PEPP. In addition, the overall volume purchased under the PEPP is likely to be slightly higher than the current volume, since maturities that have already occurred under the PEPP amounted to around EUR 61.4bn at the end of January. The report is flawed in one point: unlike the APP, the ECB has not communicated any guidance with regard to reinvestment of maturities that have already occurred under the PEPP. This is an aspect we lament, as we believe that such guidance and the relevant transparency could provide some fascinating insights. As mentioned above, the only known aspect is the period when any bonds maturing are to be reinvested in the market.

## Estimated portfolio development

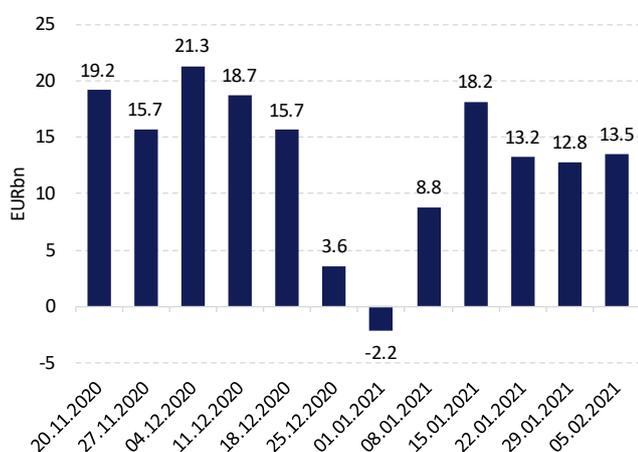
Assumed future purchase pace	Weekly net purchase volume	PEPP limit hit in...
Average net weekly purchase volume so far	EUR 18.2bn	56 weeks (04 March 2022)

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

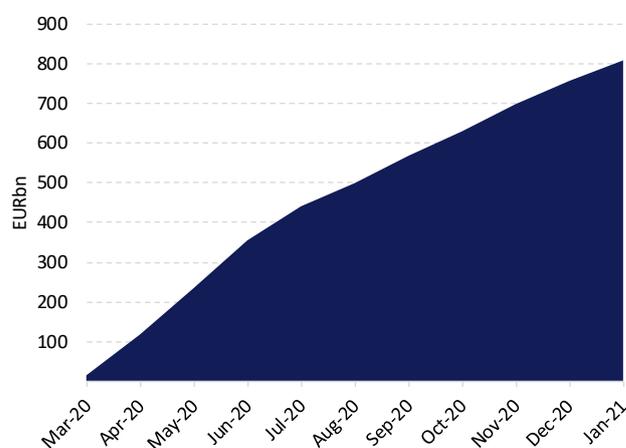
### Calculated purchase rate almost achieved

Since the start of the PEPP at the end of March 2020, the ECB has purchased an average of EUR 18.2bn per week under the programme. Although the volume observed each week has certainly been subject to fluctuations worth mentioning – e.g. in phases of slow market activities (Christmas or the summer lull) – the current average reflects full use of the EUR 1,850bn on a calculated basis by early March 2022. This means that the ECB is still four weeks away from the currently defined earliest expected end of net purchases. However, in view of another summer lull and pause at year-end 2021, this is not likely to result in forced curbing of purchasing activities. In the longer term, we continue to assume natural fluctuations in the weekly purchase rate will occur – this is what we describe as the programme breathing.

### Weekly purchase volume



### Trend in PEPP volume



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

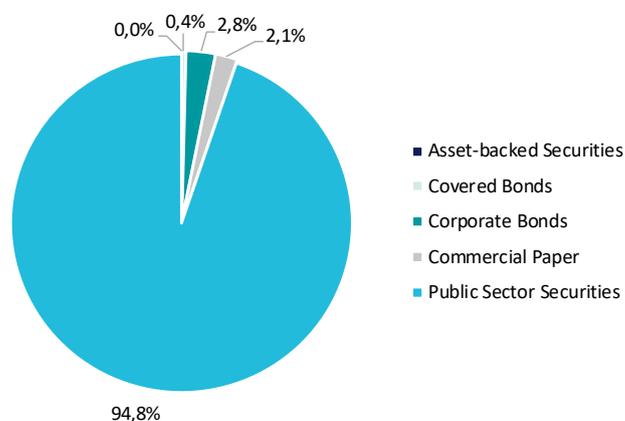
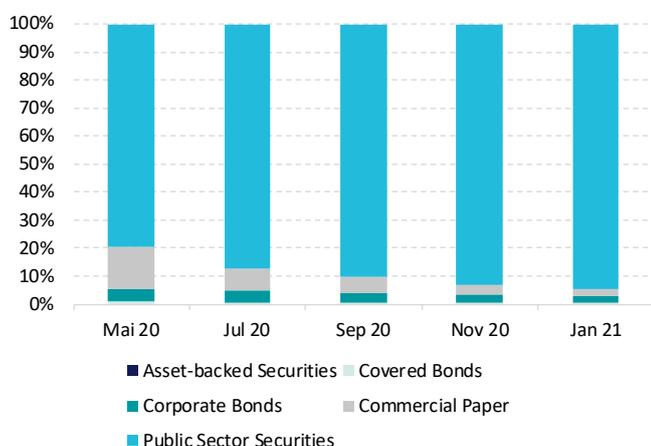
### Share of public sector assets rose once again; covered bonds irrelevant

Based on the latest PEPP figures, a clear trend continues to be evident. The PEPP is used for the purpose of buying public sector assets. In fact, the share of public sector assets rose to a new record of 94.8%. This share has continuously increased since the programme was first set up. While the share of covered bonds has been a negligible 0.4%, the shares of corporate bonds (2.8%) and commercial paper (2.1%) decreased once again. A clear trend is also evident in this respect. Corporate bonds initially accounted for a 4.5% share of the PEPP, but have gradually become less important since then. At the same time, the share of commercial paper amounted to 15.1% at the end of May 2020. It is also noteworthy that holdings of covered bonds (EUR -3m) and commercial paper (EUR -7,695m) have actually decreased in the past two months. Since July 2020, covered bonds worth a net amount of only EUR 2m have been purchased under the PEPP. Although eligible for purchase in principle, no asset-backed securities have yet been purchased under the PEPP since the programme was launched.

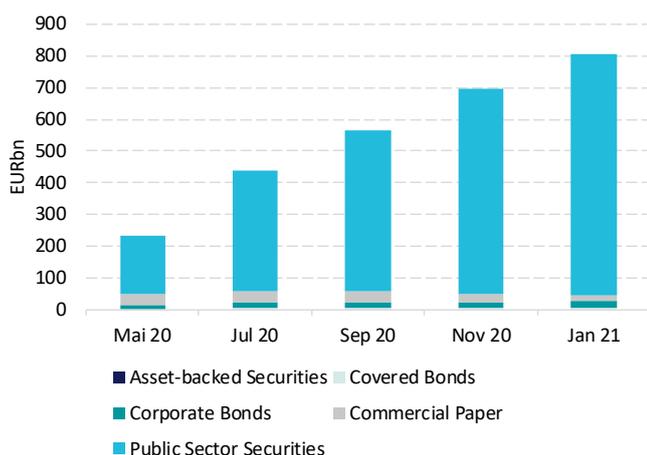
### Volumes of the asset classes (EURm)

	Asset-backed Securities	Covered Bonds	Corporate Bonds	Commercial Paper	Public Sector Securities	PEPP
Nov 2020	0	3,123	20,760	24,306	650,272	698,461
Jan 2021	0	3,120	22,315	16,611	764,710	806,756
Δ	0	-3	+1,555	-7,695	+114,438	+108,295

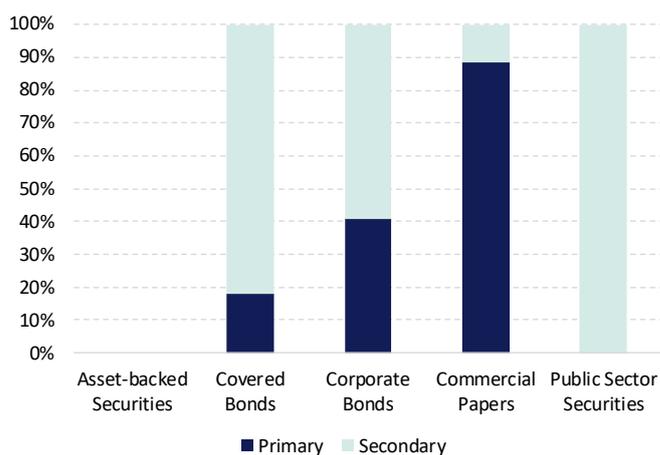
### Portfolio structure



### Portfolio development



### Share of primary/secondary market purchases



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

**PEPP capital key...**

To recap, since the structure and set-up of the PEPP differs from that of the PSPP, there are changes to the capital key as well as purchases resulting from maturities, because Greek bonds are eligible to be purchased under the PEPP but excluded from purchases under the PSPP. The capital key for Germany is 23.7%, followed by France (18.4%), Italy (15.3%) and Spain (10.7%). Next are supnationals at 10%. At 2.2%, Greece ranks between Austria (2.6%) and Finland (1.7%). If applicable, the ECB will let us know whether the share of supnationals will be increased in the longer term. The increased supply from the EU as a new mega issuer would suggest that the ECB will make some finer adjustments in this respect. At 7.0%, the share of supnationals is still sufficiently far away from the 10% envisaged.

**...compared with capital key for the PSPP**

Since the PSPP differs, as explained, from the PEPP in terms of its structure and set-up, adjustments to the capital key result as well as maturity-driven purchases because Greek bonds are not eligible for purchase under the PSPP. The capital key for Germany in relation to this programme is 24.3%, followed by France (18.8%), Italy (15.7%) and Spain (11.0%). Next are supnationals at 10%.

**Overview of public sector assets under the PEPP**

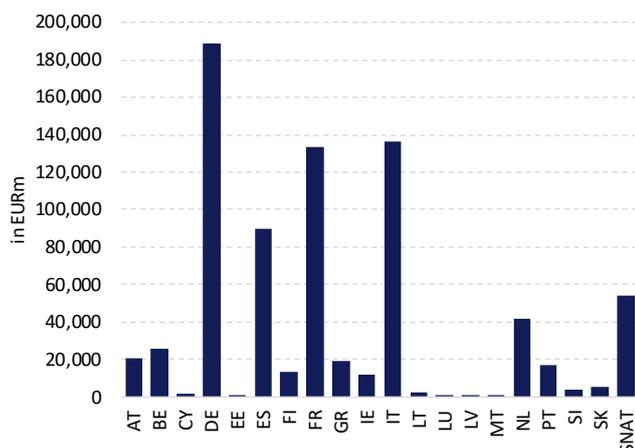
Jurisdiction	Holdings (in EURm)	Adjusted <sup>2</sup> distribution key <sup>1</sup>	PEPP share	Δ vs. adjusted distribution key <sup>2</sup>	Ø time to maturity (in years)	Market average <sup>3</sup> (in years)	Difference (in years)
AT	20,692	2.6%	2.7%	0.1%	10.0	7.1	3.0
BE	26,084	3.3%	3.4%	0.1%	6.5	9.3	-2.8
CY	1,712	0.2%	0.2%	0.0%	10.4	8.2	2.3
DE	188,751	23.7%	24.6%	0.8%	5.1	6.7	-1.6
EE	211	0.3%	0.0%	-0.2%	8.9	8.2	0.8
ES	89,846	10.7%	11.7%	1.0%	8.5	7.4	1.0
FI	13,103	1.7%	1.7%	0.1%	7.1	6.9	0.2
FR	133,594	18.4%	17.4%	-1.0%	8.4	7.3	1.1
GR	18,950	2.2%	2.5%	0.2%	8.6	9.5	-0.8
IE	12,123	1.5%	1.6%	0.1%	9.0	9.4	-0.5
IT	136,310	15.3%	17.7%	2.5%	6.8	6.9	-0.1
LT	2,183	0.5%	0.3%	-0.2%	11.5	10.3	1.2
LU	1,301	0.3%	0.2%	-0.1%	6.9	6.2	0.6
LV	888	0.4%	0.1%	-0.2%	9.7	10.1	-0.4
MT	266	0.1%	0.0%	-0.1%	7.2	8.0	-0.8
NL	41,956	5.3%	5.5%	0.2%	4.4	7.8	-3.3
PT	17,304	2.1%	2.3%	0.1%	6.6	6.6	0.0
SI	3,644	0.4%	0.5%	0.0%	9.3	9.8	-0.5
SK	5,381	1.0%	0.7%	-0.3%	8.6	8.2	0.4
SNAT	53,849	10.0%	7.0%	-3.0%	9.8	7.9	1.9
<b>Total / Avg.</b>	<b>768,148</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>7.1</b>	<b>7.3</b>	<b>-0.2</b>

<sup>1</sup> Based on the ECB capital key, adjusted to include supras

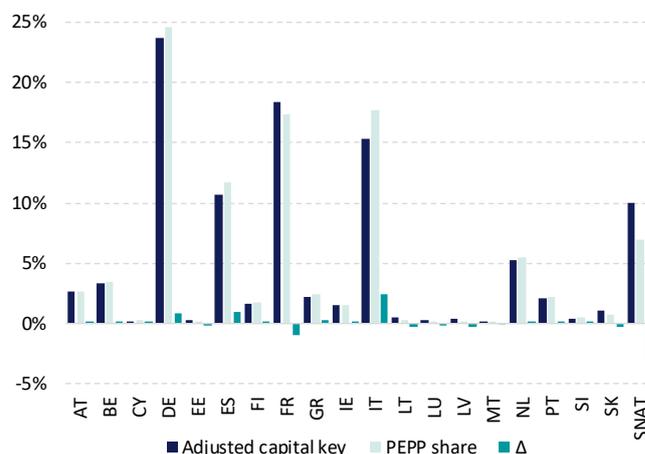
<sup>2</sup> Based on the adjusted distribution key <sup>3</sup> Weighted average time to maturity of the bonds eligible for purchasing under the PEPP

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

### Holdings of public sector bonds by jurisdiction



### Deviations from adjusted capital key



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

#### Nominal holdings of public sector bonds

As illustrated in the above charts and the table, Germany is at the top of both the theoretical and actual ranking, with purchases in excess of EUR 188bn. According to the current reporting, German bonds have again been overbought, so that there is a positive variation from the adjusted capital key (+0.8% percentage points, or around EUR 6.7bn). Italian bonds have also been bought above the limit since the start of the PEPP (at +2.5 percentage points, although the trend now is downward). The only other upward deviation worth mentioning was seen for Spain (also with a downward trend at +1.0 percentage point). We ascertained departures from the key in a downward direction, i.e. insufficient securities purchased, for France (now only -1.0 percentage point) and supnationals (now -3.0 percentage points). Each percentage point currently corresponds to EUR 7.7bn. All other deviations are around the zero line and do not therefore play a significant role.

#### Monthly PSPP deviations a frequent topic of discussion

In our understanding, the PSPP portfolio has permanently been breathing since 2015. This is also what the ECB is communicating. In addition, the ECB does not consider itself obligated to meet the capital key exactly for its holdings in any one month. This applies not only to the net purchases made in the reporting month. It also applies to the figures recorded since the programme was first set up. This results from the circumstance that there are maturities in specific jurisdictions which may only be replaced subsequently and this means that, in net terms, portfolio outflows can actually occur instead of net purchases, as the vocabulary would suggest. Discrepancies have occurred and are occurring time and again with regard to the target figures for Germany, Italy and France as well as supnational. In this respect, market observers are left at a loss as to why purchases were made under the one programme on behalf of the Eurosystem rather than on behalf of the other entity, in order to avoid such discussion in the media or among market observers. Sometimes the figure is exceeded for the PEPP and there is a shortfall under the PSPP (or vice versa). In addition, we would welcome any positive change in reporting, for example to also facilitate providing information about the volume of reinvestments or to discern certain market shortages in good time, as has already been assumed for German and supnational bonds for many years. As a result of combating COVID, significantly more securities are available for purchase, particularly in the public sector, than was assumed at the end of 2019 when the APP was restarted and prior to the PEPP being launched.

### Aggregated purchase activity under the APP and PEPP (EURm)

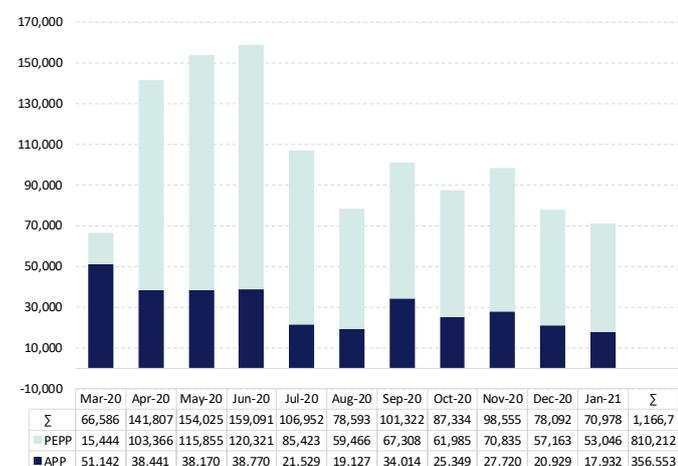
	APP	PEPP	APP & PEPP
Dec 2020	2,908,908	757,166	3,666,074
Jan-21	2,926,840	810,212	3,737,052
$\Delta$	+17,932	+53,046	+70,978

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

#### PEPP vs APP – different purposes result in structural differences

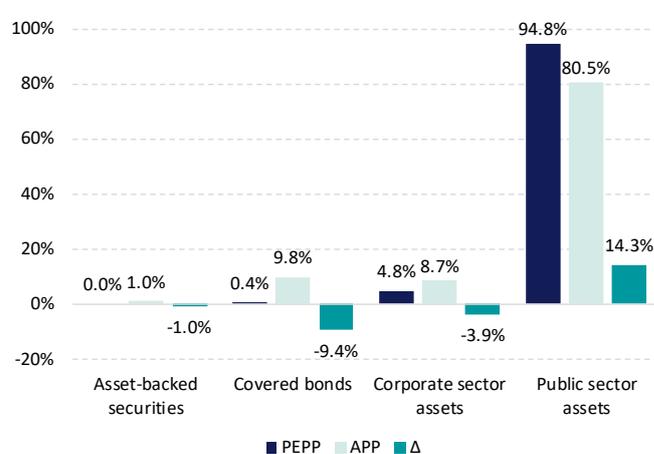
A comparison of the two ECB purchase programmes highlights that discrepancies for the various asset classes have slightly increased again in the past two months. The share of covered bonds in the PEPP remained 9.4 percentage points lower than that under the APP. At the same time, the (partly non-existent) share of ABS in the two programmes remained unchanged, reflecting a difference of one percentage point between the two programmes. With regard to corporate sector assets, the difference between the two programmes rose from 2.1 to 3.9 percentage points, with a higher share of corporate assets under the APP, in proportional terms. Based on steady portfolio shares of the various asset classes in the APP, the delta between this programme and the PEPP increased from 12.6 to 14.3 percentage points in view of the increasing public sector focus of the PEPP. It should be taken into account that these differences are in line with the different objectives of the two purchase programmes. The APP is run with the intention of achieving price stability, whereas the purpose of the PEPP is far more focused on the short term and aimed at counteracting the negative impacts of the pandemic. Broader market intervention via the APP is therefore just as understandable as the concentration on advantageous funding terms in the public sector, as the relevant offering and measures at state and subnational levels were taken in this sector, in particular. Support for the financial and corporate sectors, we believe, is provided by the current TLTRO III tender (which was also extended on 10 December 2020) as well as purchasing activities under the APP in the form of the CBPP3 and CSPP.

#### Monthly net purchases in EURm (PEPP & APP)



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

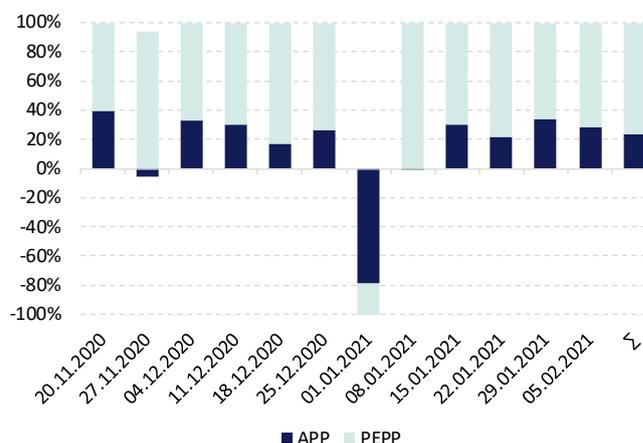
#### PEPP vs. APP: Portfolio shares



## Weekly purchase volume



## Distribution of weekly net purchases



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

### Conclusion and outlook

After adjusting the PEPP again in December 2020 by extending both duration and volume, the ECB's January meeting passed without further adjustments, which was expected. At present, we see no reason for adjustment and this is supported by the wording the European Central Bank used. In January 2021, the ECB indicated expressly for the first time that not making full use of the volume of now EUR 1,850bn was conceivable. Yet, the ECB at the same time communicated once more that it would also adjust the volume upwards if necessary – we see the chance of this happening as 50:50, because of the fact that in her opening statement, Christine Lagarde used the word 'equally'. Based on the assumption that we will see successes across Europe in 2021 as a result of the rollout of the vaccine – despite the current problems regarding the availability of sufficient vaccine doses – and there will not be another lockdown wave due to the spread of new variants of the coronavirus, we believe that the ECB is well positioned with the set-up of its PEPP and there currently is no need for further sharper adjustments.

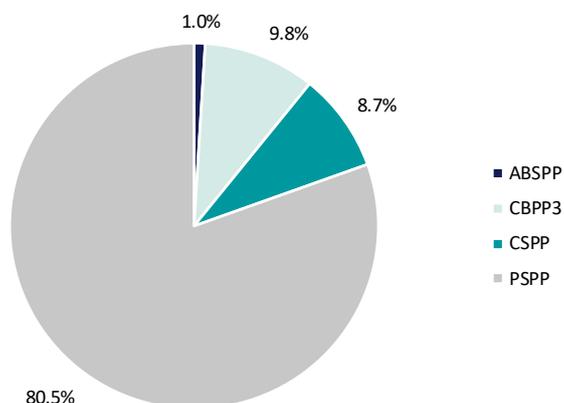
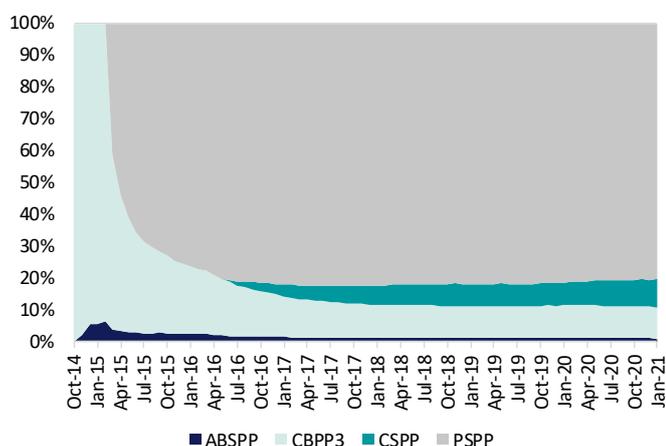
# ECB tracker

## Asset Purchase Programme (APP)

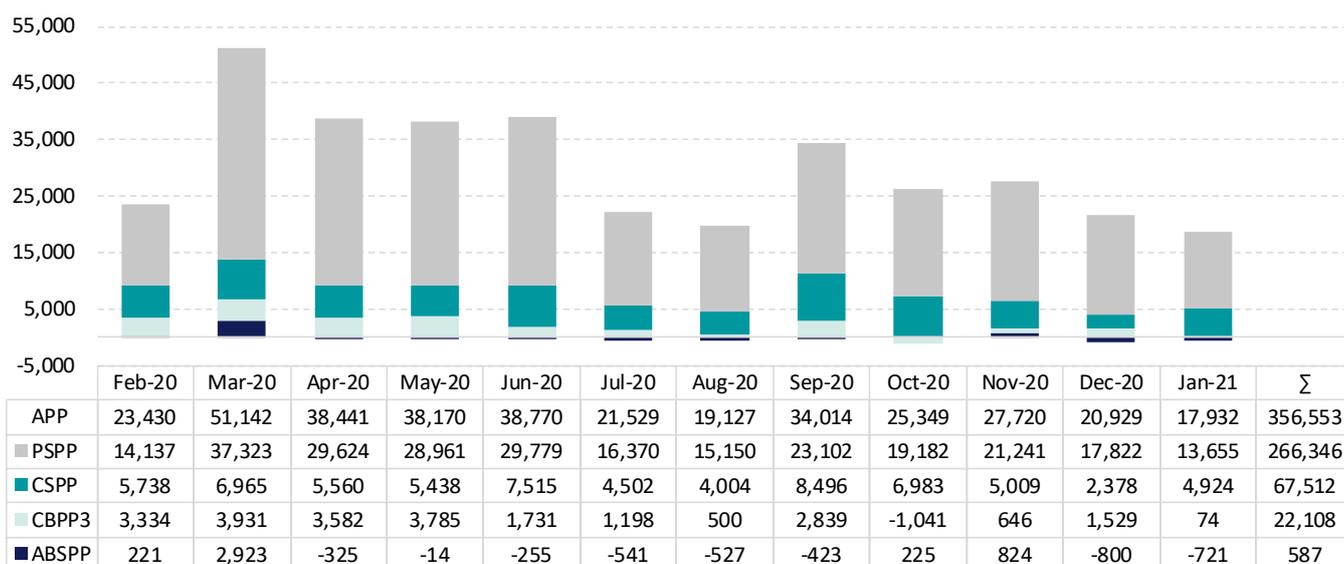
### Holdings (in EURm)

	ABSPP	CBPP3	CSPP	PSPP	APP
<b>Dec-20</b>	29,352	287,545	250,403	2,341,607	2,908,908
<b>Jan-21</b>	28,631	287,619	255,327	2,355,262	2,926,840
<b>Δ</b>	-721	+74	+4,924	+13,655	+17,932

### Portfolio structure

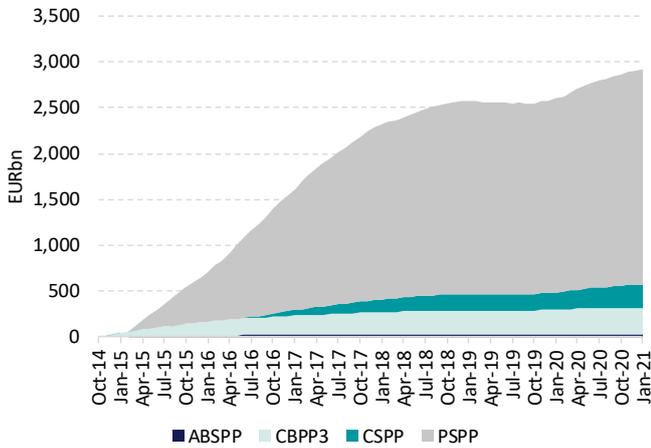


### Monthly net purchases (in EURm)

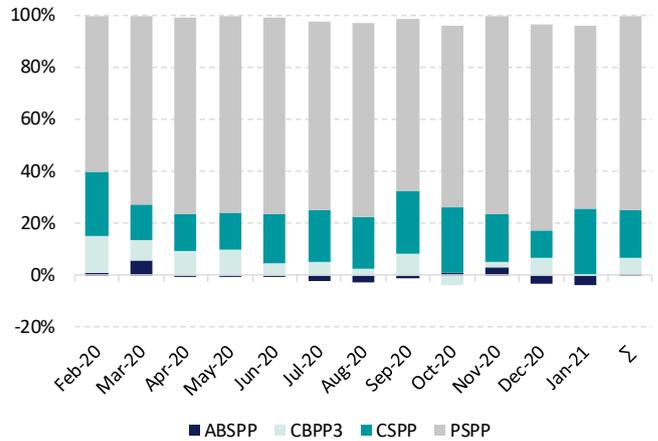


Source: ECB, NORD/LB Markets Strategy & Floor Research

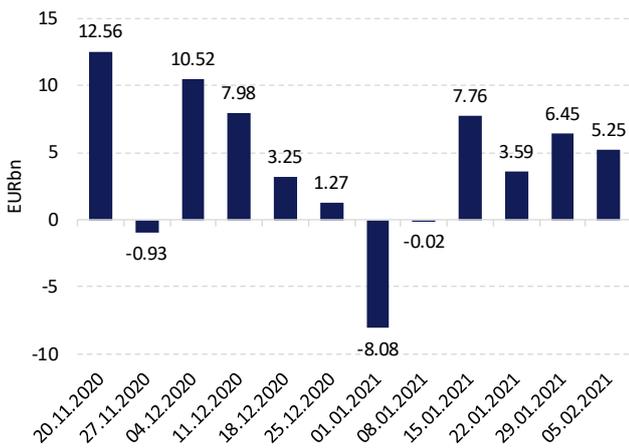
### Portfolio development



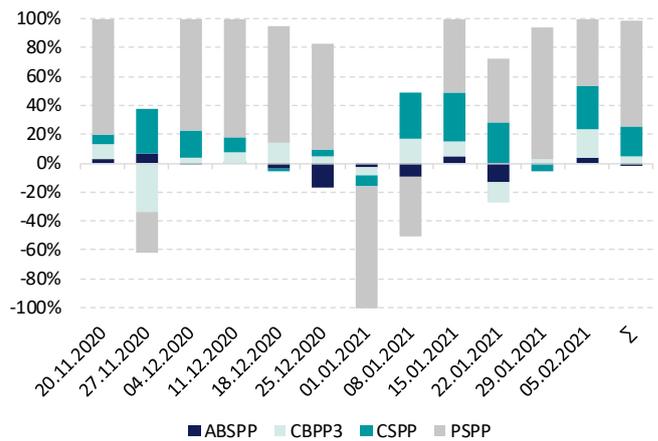
### Distribution of monthly purchases



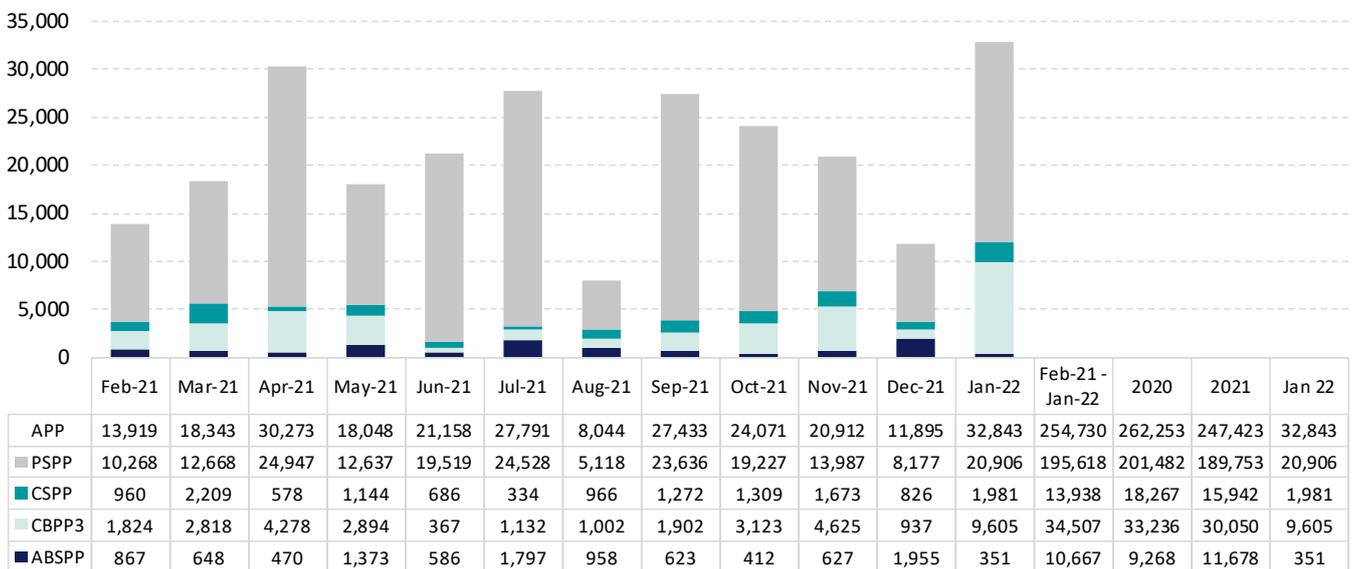
### Weekly purchases



### Distribution of weekly purchases



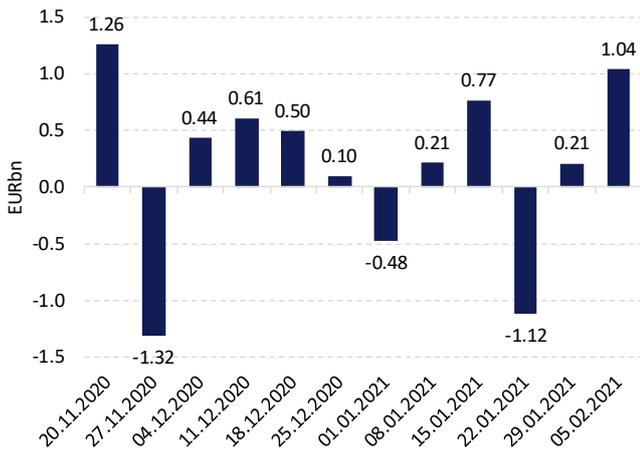
### Expected monthly redemptions (in EURm)



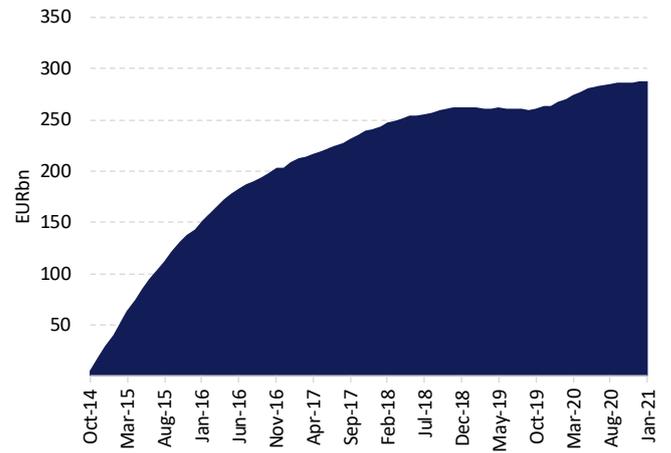
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

### Covered Bond Purchase Programme 3 (CBPP3)

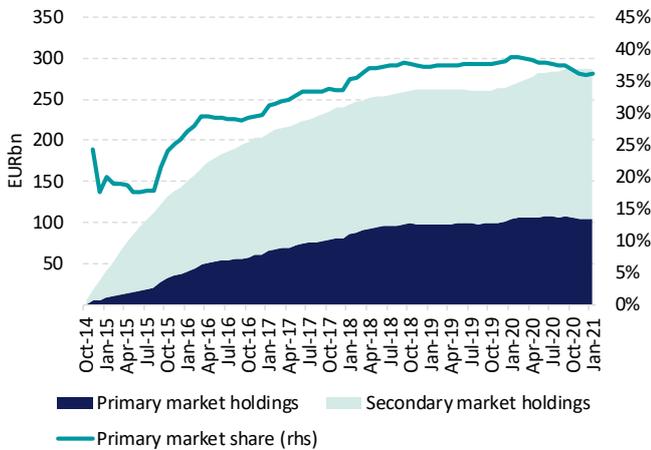
#### Weekly purchases



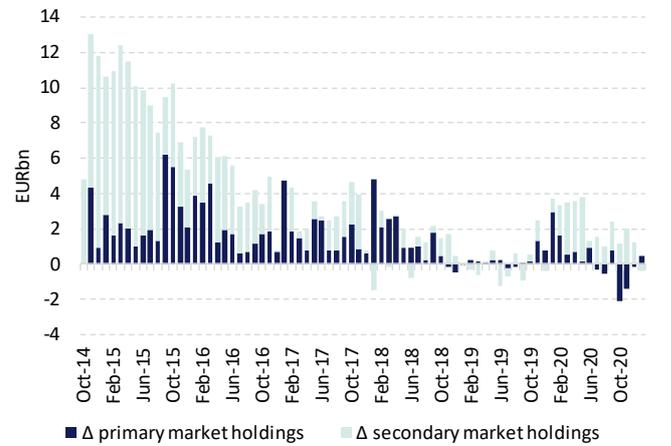
#### Development of CBPP3 volume



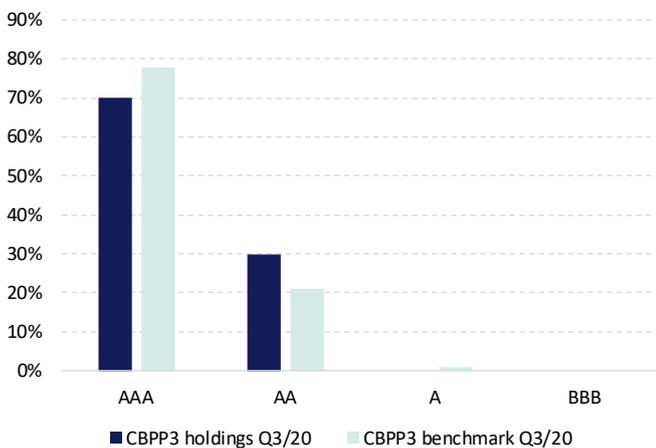
#### Primary and secondary market holdings



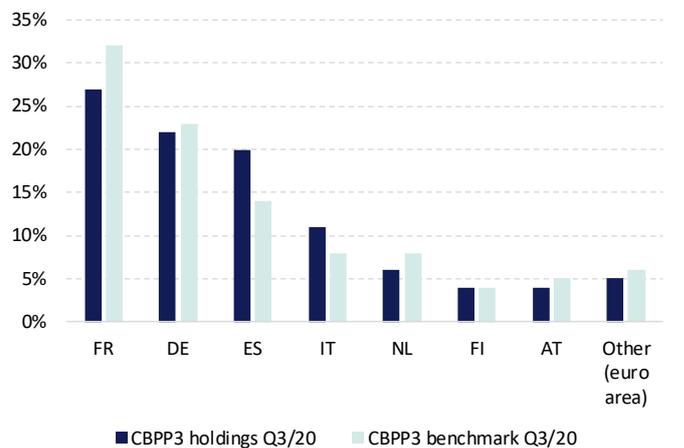
#### Change of primary and secondary market holdings



#### Distribution of CBPP3 by credit rating

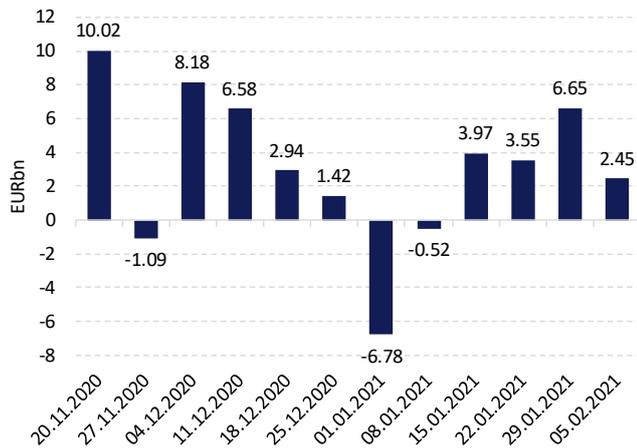


#### Distribution of CBPP3 by country of risk

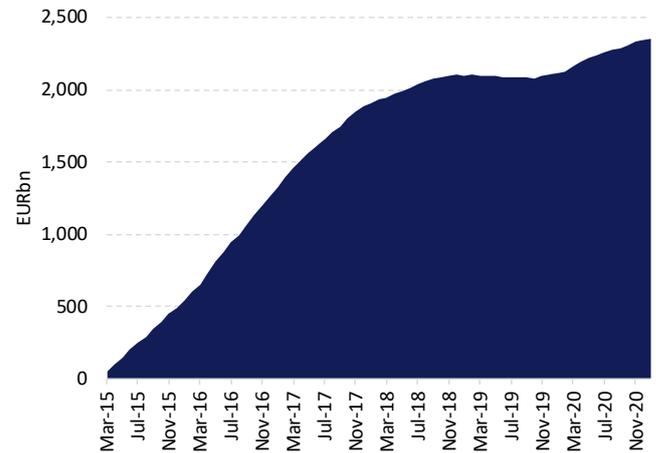


## Public Sector Purchase Programme (PSPP)

### Weekly purchases



### Development of PSPP volume



### Overall distribution of PSPP buying at month-end

Country	Adjusted distribution key <sup>1</sup>	Purchases (EURm)	Expected purchases (EURm) <sup>2</sup>	Difference (EURm)	Average time to maturity in years	Market average in years <sup>3</sup>	Difference in years
AT	2.701%	67,577	66,048	1,529	7.78	8.04	-0.3
BE	3.362%	85,867	82,213	3,654	8.29	10.10	-1.8
CY	0.199%	3,142	4,856	-1,714	9.98	9.09	0.9
DE	24.327%	575,158	594,868	-19,710	6.52	7.64	-1.1
EE	0.260%	263	6,357	-6,094	9.52	9.51	0.0
ES	11.004%	290,758	269,088	21,670	8.12	8.41	-0.3
FI	1.695%	35,448	41,450	-6,002	7.10	7.95	-0.8
FR	18.848%	484,506	460,892	23,614	7.25	8.25	-1.0
IE	1.563%	36,997	38,212	-1,215	8.75	9.85	-1.1
IT	15.677%	411,971	383,360	28,611	7.28	7.71	-0.4
LT	0.360%	4,471	8,793	-4,322	9.84	11.00	-1.2
LU	0.304%	2,904	7,433	-4,529	5.31	6.36	-1.0
LV	0.534%	2,904	13,060	-10,156	9.71	10.30	-0.6
MT	0.097%	1,215	2,367	-1,152	9.82	9.34	0.5
NL	5.408%	117,408	132,245	-14,837	7.61	8.45	-0.8
PT	2.160%	45,389	52,815	-7,426	7.12	7.38	-0.3
SI	0.444%	8,936	10,866	-1,930	9.33	10.11	-0.8
SK	1.057%	14,259	25,843	-11,584	8.24	8.57	-0.3
GR	0.00%	0	0	0	0.00	15.93	0.0
SNAT	10.00%	256,123	244,530	11,593	7.43	8.74	-1.3
<b>Total / Avg.</b>	<b>100.0%</b>	<b>2,445,296</b>	<b>-</b>	<b>-</b>	<b>7.31</b>	<b>8.27</b>	<b>-1.0</b>

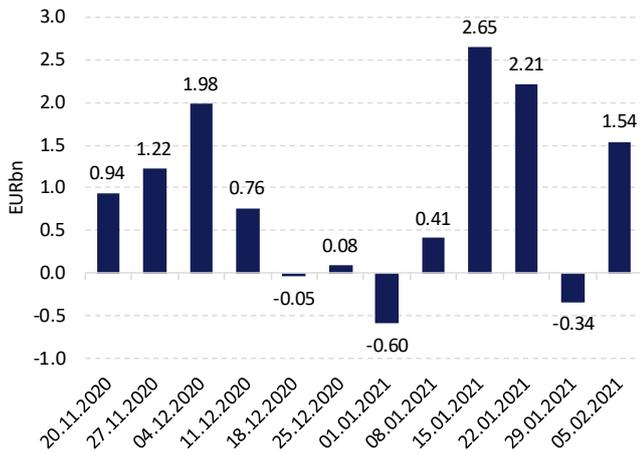
<sup>1</sup> Based on the ECB capital key, adjusted to include supras and the disqualification of Greece

<sup>2</sup> Based on the adjusted distribution key <sup>3</sup> Weighted average time to maturity of the bonds eligible for purchasing under the PSPP

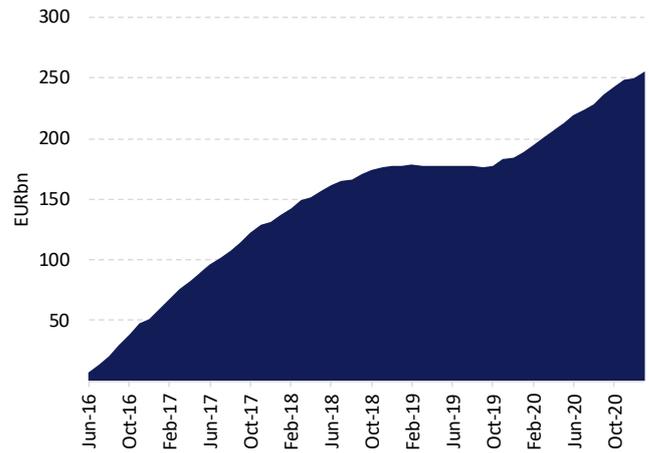
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

### Corporate Sector Purchase Programme (CSPP)

#### Weekly purchases

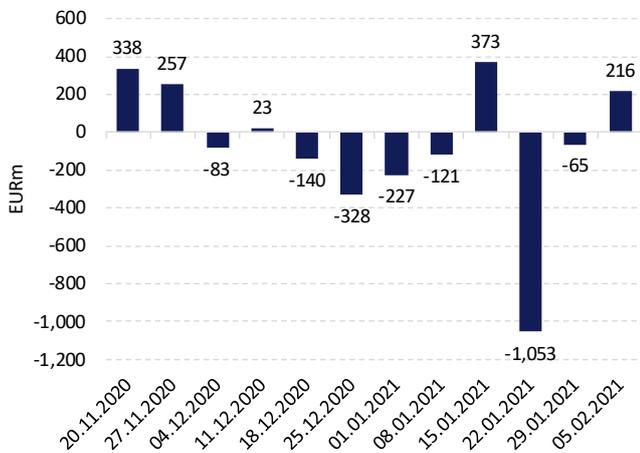


#### Development of CSPP volume

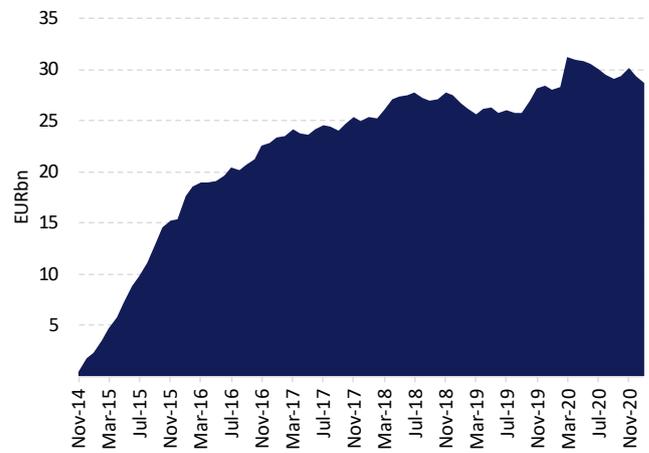


### Asset-Backed Securities Purchase Programme (ABSPP)

#### Weekly purchases



#### Development of ABSPP volume



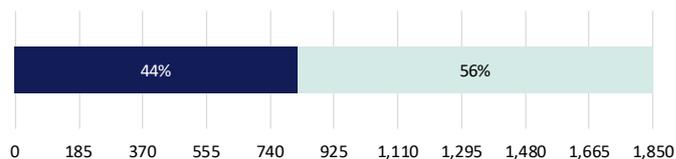
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

### Pandemic Emergency Purchase Programme (PEPP)

#### Holdings (in EURm)

	PEPP
<b>Dec-20</b>	757,166
<b>Jan-21</b>	810,212
<b>Δ</b>	+53,046

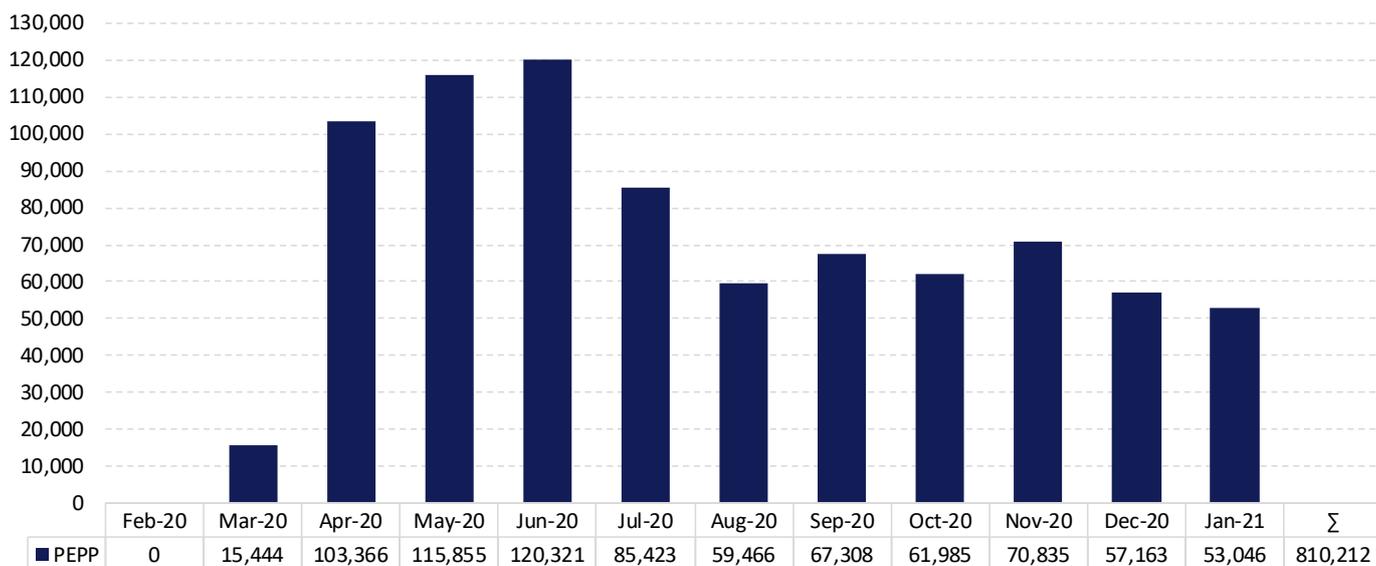
#### Volume already invested (in EURbn)



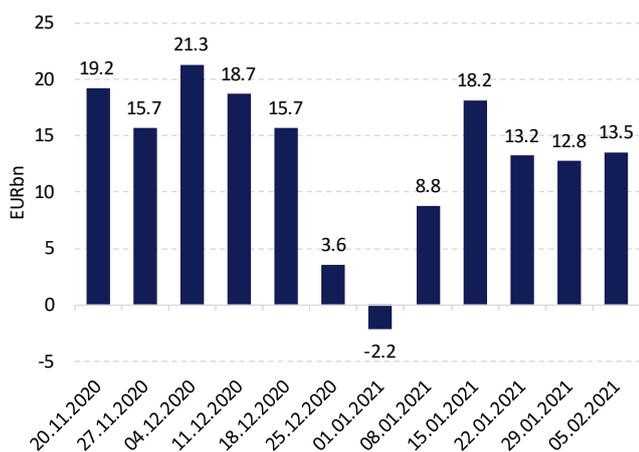
#### Estimated portfolio development

Assumed pace of purchases	Weekly net purchase volume	PEPP limit hit in ...
Average weekly net purchase volume so far	EUR 18.2bn	56 weeks (04.03.2022)

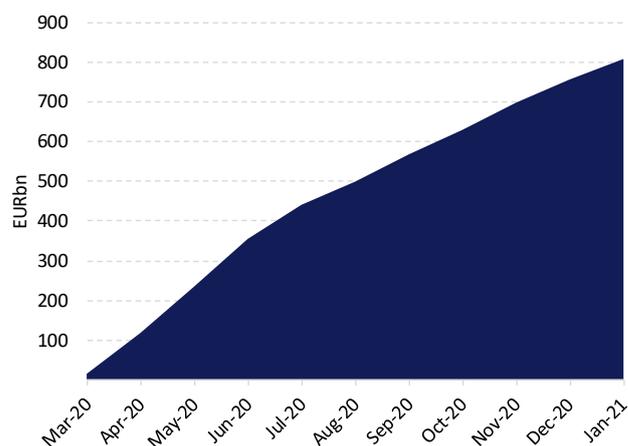
#### Monthly net purchases (in EURm)



#### Weekly purchases



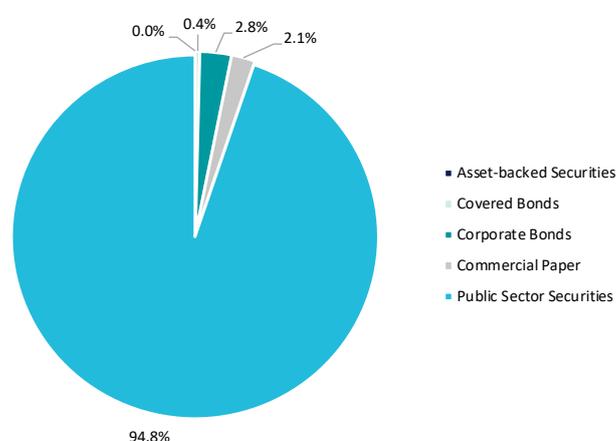
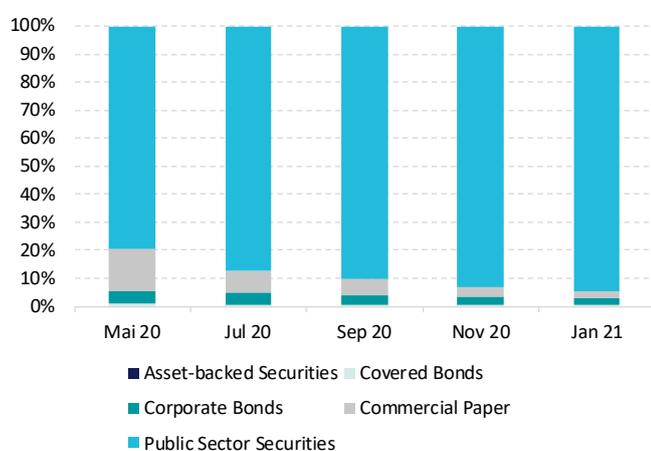
#### Development of PEPP volume



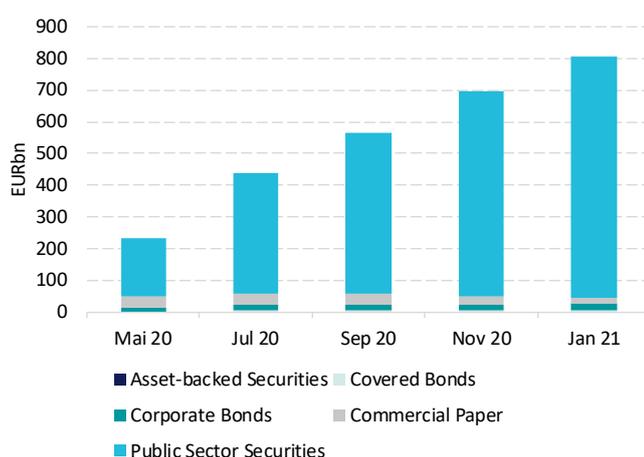
### Holdings under the PEPP (in EURm)

	Asset-backed Securities	Covered Bonds	Corporate Bonds	Commercial Paper	Public Sector Securities	PEPP
Nov-20	0	3,123	20,760	24,306	650,272	698,461
Jan-21	0	3,120	22,315	16,611	764,710	806,756
$\Delta$	0	-3	+1,555	-7,695	+114,438	+108,295

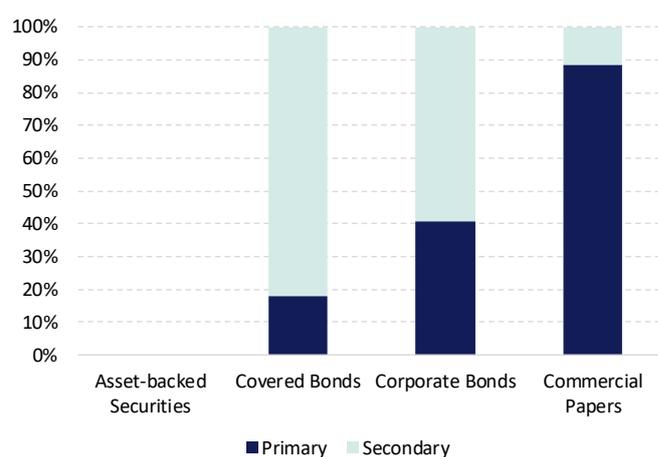
### Portfolio structure



### Portfolio development



### Share of primary and secondary market holdings



### Breakdown of private sector securities under the PEPP as of January 2021

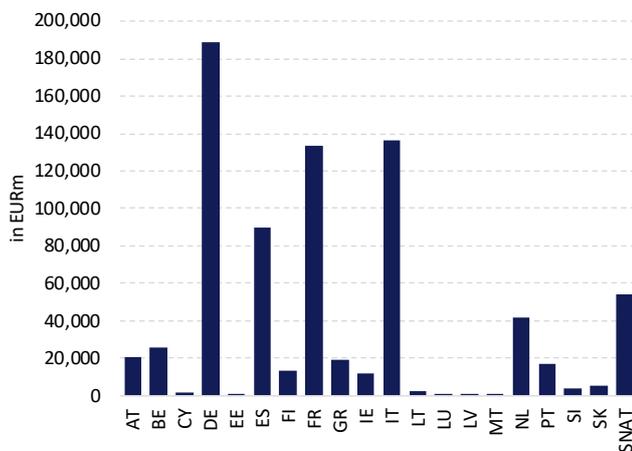
	Asset-backed securities		Covered bonds		Corporate bonds		Commercial papers	
	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary
Holdings in EURm	0	0	557	2,563	9,092	13,223	14,663	1,948
Share	0.0%	0.0%	17.9%	82.2%	40.7%	59.3%	88.3%	11.7%

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

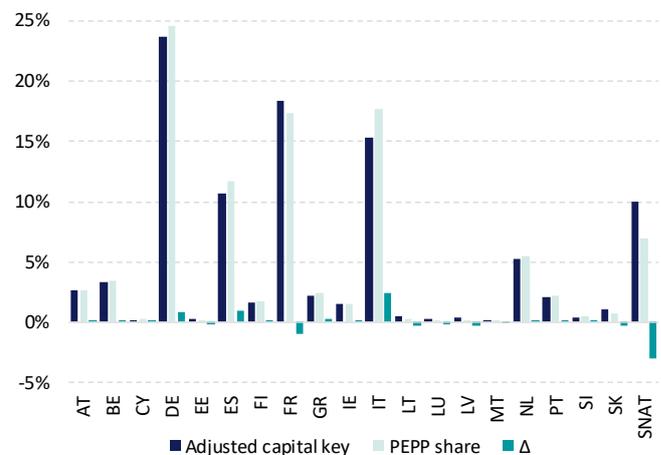
## Breakdown of public sector securities under the PEPP

Jurisdiction	Holdings (in EURm)	Adj. distribution key <sup>1</sup>	PEPP share	Deviations from the adj. distribution key <sup>2</sup>	Ø time to maturity (in years)	Market average <sup>3</sup> (in years)	Difference (in years)
AT	20,692	2.6%	2.7%	0.1%	10.0	7.1	3.0
BE	26,084	3.3%	3.4%	0.1%	6.5	9.3	-2.8
CY	1,712	0.2%	0.2%	0.0%	10.4	8.2	2.3
DE	188,751	23.7%	24.6%	0.8%	5.1	6.7	-1.6
EE	211	0.3%	0.0%	-0.2%	8.9	8.2	0.8
ES	89,846	10.7%	11.7%	1.0%	8.5	7.4	1.0
FI	13,103	1.7%	1.7%	0.1%	7.1	6.9	0.2
FR	133,594	18.4%	17.4%	-1.0%	8.4	7.3	1.1
GR	18,950	2.2%	2.5%	0.2%	8.6	9.5	-0.8
IE	12,123	1.5%	1.6%	0.1%	9.0	9.4	-0.5
IT	136,310	15.3%	17.7%	2.5%	6.8	6.9	-0.1
LT	2,183	0.5%	0.3%	-0.2%	11.5	10.3	1.2
LU	1,301	0.3%	0.2%	-0.1%	6.9	6.2	0.6
LV	888	0.4%	0.1%	-0.2%	9.7	10.1	-0.4
MT	266	0.1%	0.0%	-0.1%	7.2	8.0	-0.8
NL	41,956	5.3%	5.5%	0.2%	4.4	7.8	-3.3
PT	17,304	2.1%	2.3%	0.1%	6.6	6.6	0.0
SI	3,644	0.4%	0.5%	0.0%	9.3	9.8	-0.5
SK	5,381	1.0%	0.7%	-0.3%	8.6	8.2	0.4
SNAT	53,849	10.0%	7.0%	-3.0%	9.8	7.9	1.9
<b>Total / Avg.</b>	<b>768,148</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>7.1</b>	<b>7.3</b>	<b>-0.2</b>

## Distribution of public sector assets by jurisdiction



## Deviations from the adjusted distribution key

<sup>1</sup> Based on the ECB capital key, adjusted to include supras <sup>2</sup> Based on the adjusted distribution key<sup>3</sup> Weighted average time to maturity of the bonds eligible for purchasing under the PEPP

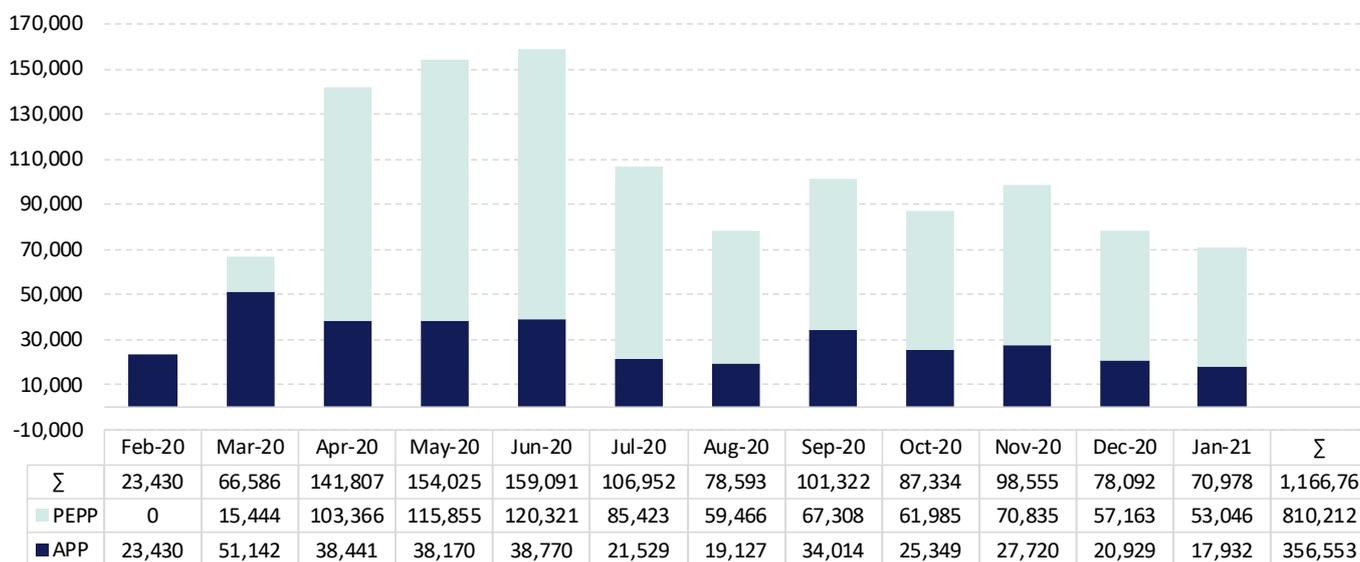
Source: ECB, Bloomberg, NORD/LB Markets Strategy &amp; Floor Research

### Aggregated purchase activity under APP and PEPP

#### Holdings (in EURm)

	APP	PEPP	APP & PEPP
<b>Dec-20</b>	2,908,908	757,166	3,666,074
<b>Jan-21</b>	2,926,840	810,212	3,737,052
<b>Δ</b>	+17,932	+53,046	+70,978

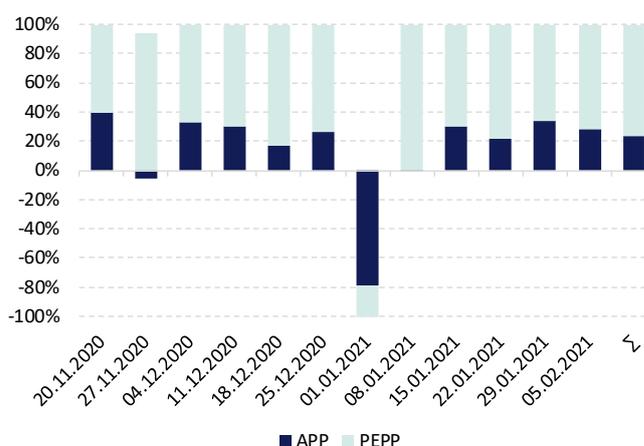
#### Monthly net purchases (in EURm)



#### Weekly purchases



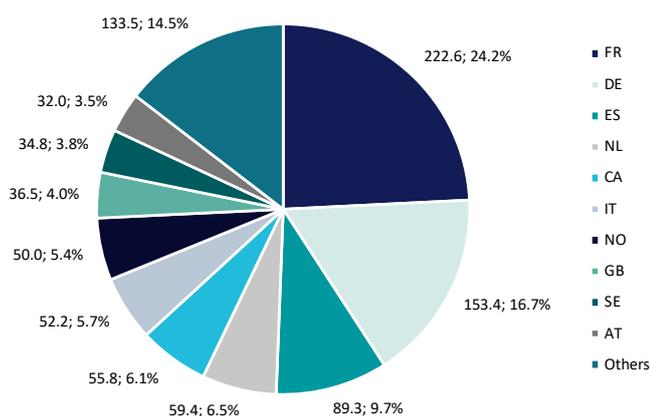
#### Distribution of weekly purchases



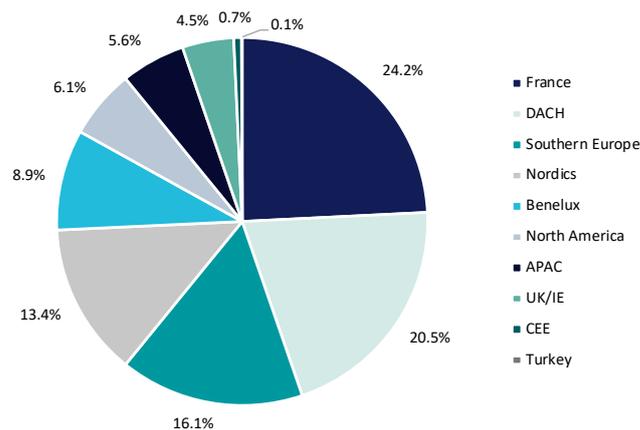
Source: ECB, Bloomberg, NORD/LB Markets Strategy & Floor Research

## Charts & Figures Covered Bonds

EUR benchmark volume by country (in EURbn)



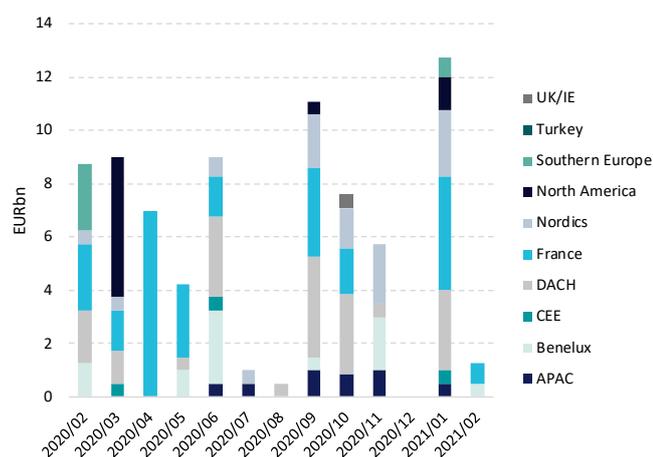
EUR benchmark volume by region (in EURbn)



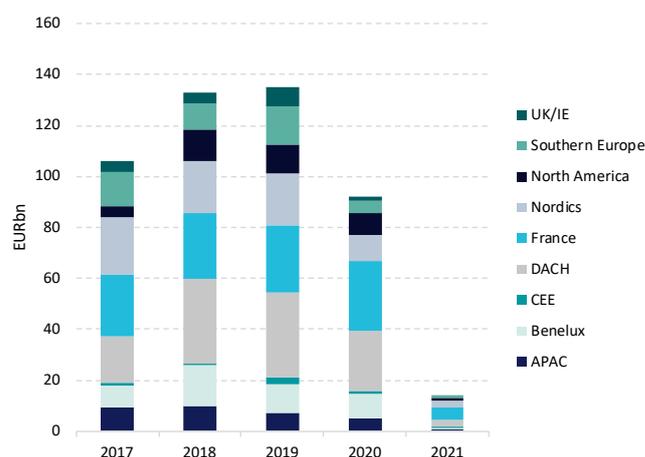
Top-10 jurisdictions

Rank	Country	Amount outst. (EURbn)	No. of BMKs	There of ESG BMKs	Avg. issue size (EURbn)	Avg. initial maturity (in years)	Avg. mod. Duration (in years)	Avg. coupon (in %)
1	FR	222.6	204	7	0.96	10.1	5.6	1.17
2	DE	153.4	229	12	0.60	8.3	4.7	0.49
3	ES	89.3	72	3	1.13	11.4	3.9	1.86
4	NL	59.4	58	0	0.97	11.1	7.2	0.98
5	CA	55.8	47	0	1.16	6.0	3.0	0.30
6	IT	52.2	60	0	0.84	9.0	4.3	1.45
7	NO	50.0	57	7	0.88	7.2	3.8	0.55
8	GB	36.5	41	0	0.90	8.4	3.3	1.12
9	SE	34.8	40	0	0.87	7.4	3.3	0.58
10	AT	32.0	58	0	0.55	9.3	5.7	0.75

EUR benchmark issue volume by month

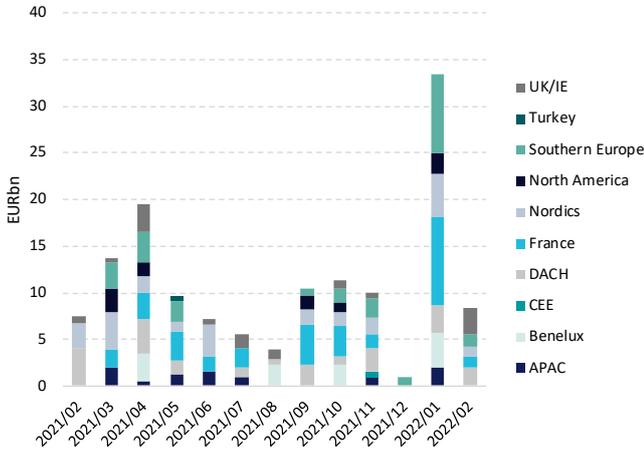


EUR benchmark issue volume by year

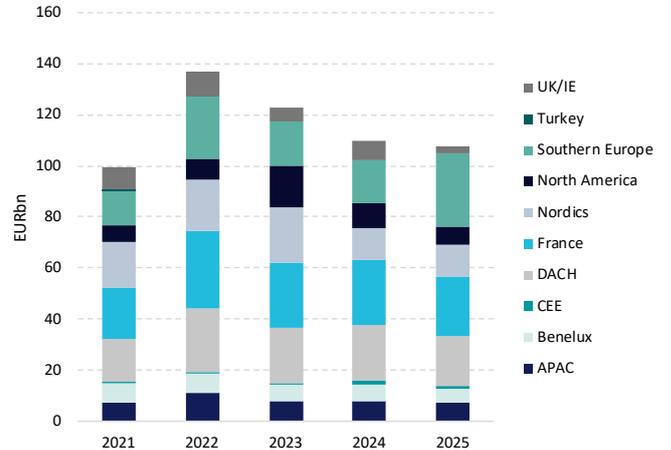


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research

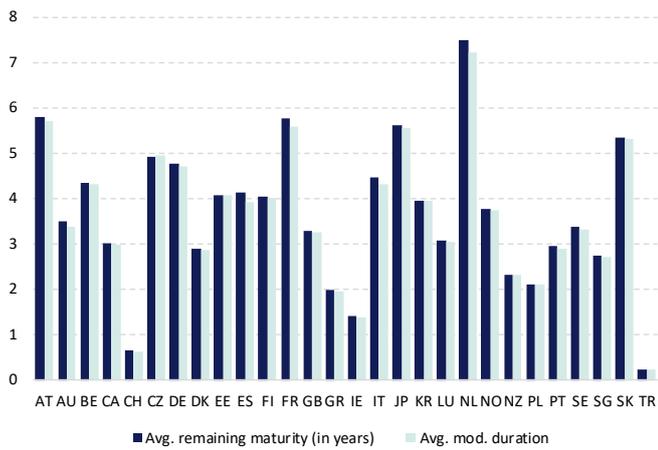
### EUR benchmark maturities by month



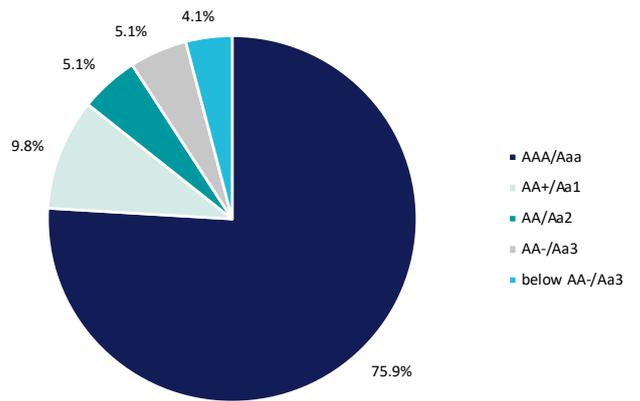
### EUR benchmark maturities by year



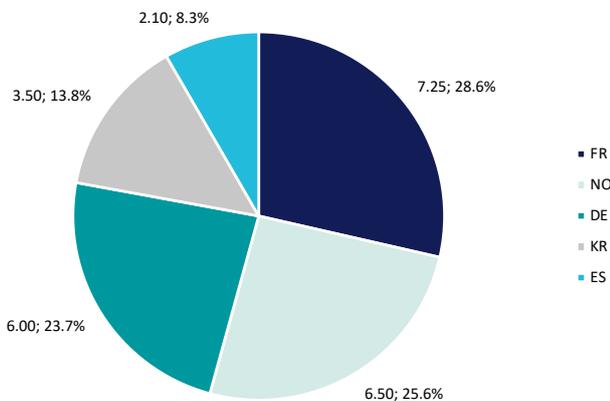
### Modified duration and time to maturity by country



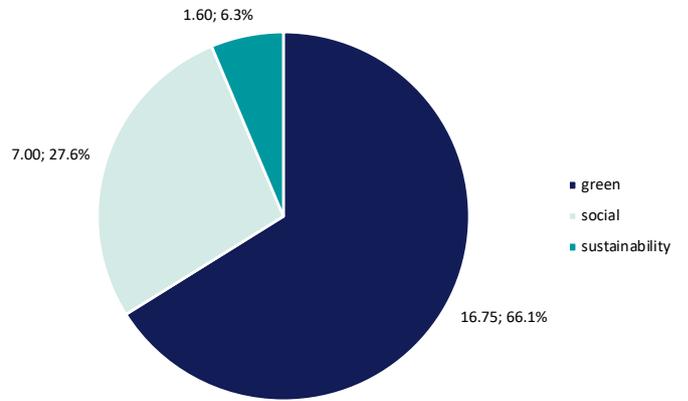
### Rating distribution (volume weighted)



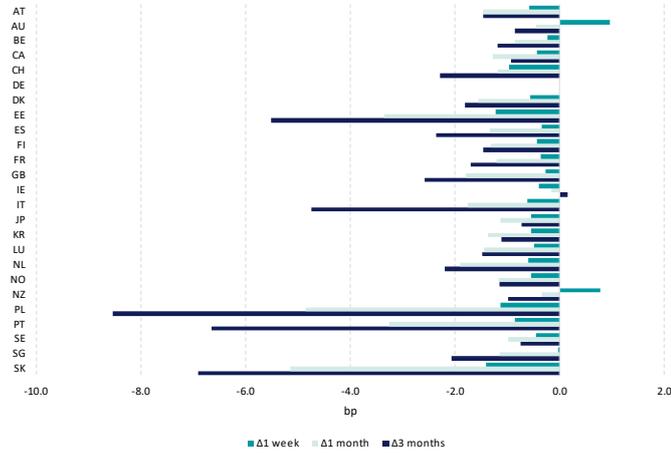
### EUR benchmark volume (ESG) by country (in EURbn)



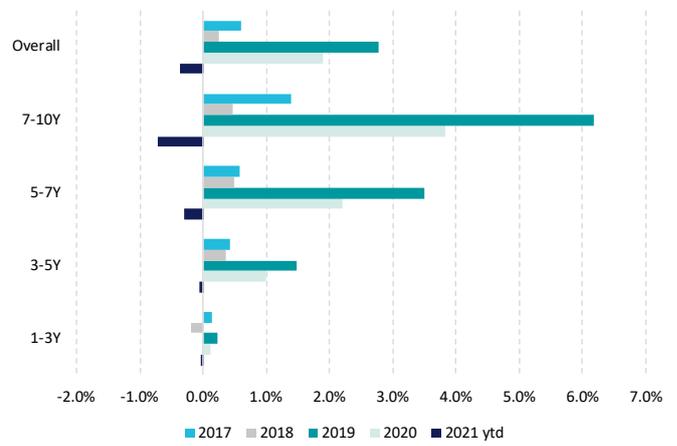
### EUR benchmark volume (ESG) by type (in EURbn)



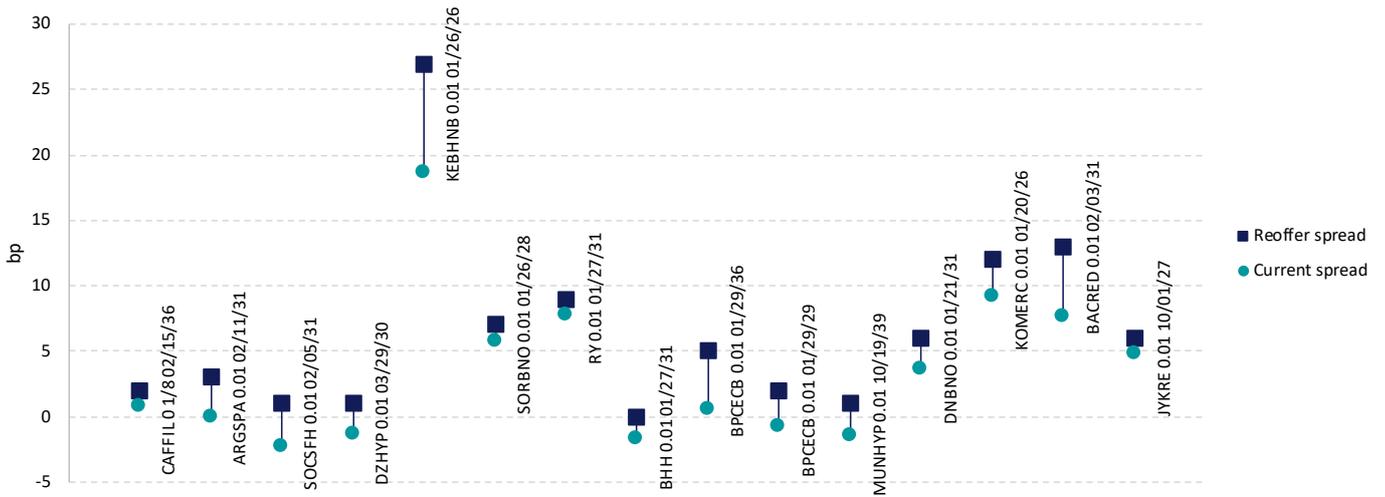
### Spread development by country



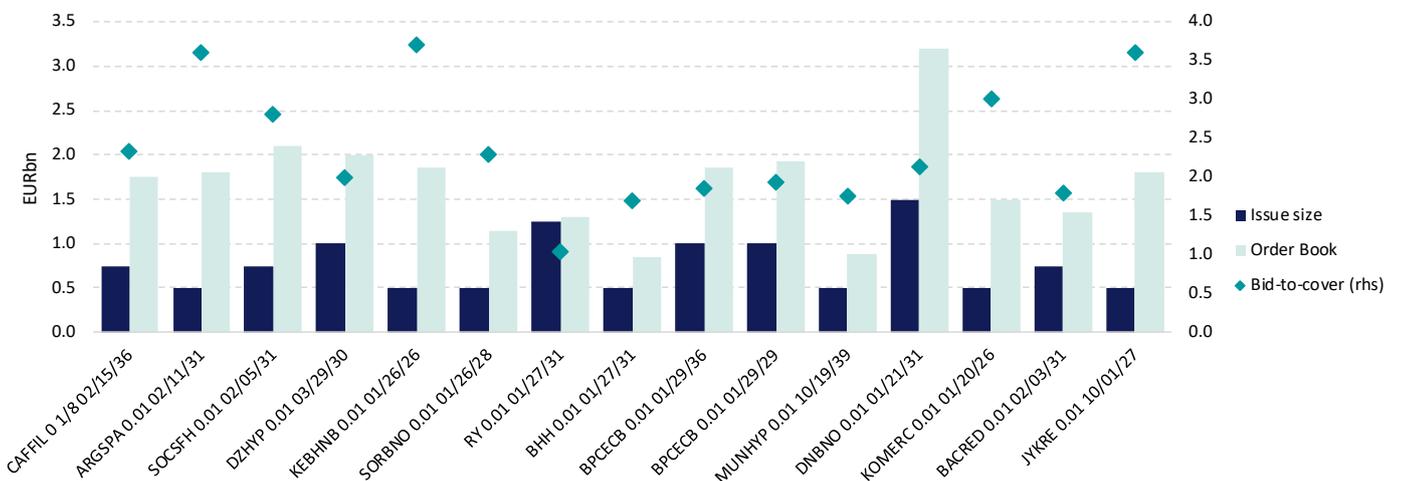
### Covered bond performance (Total return)



### Spread development (last 15 issues)

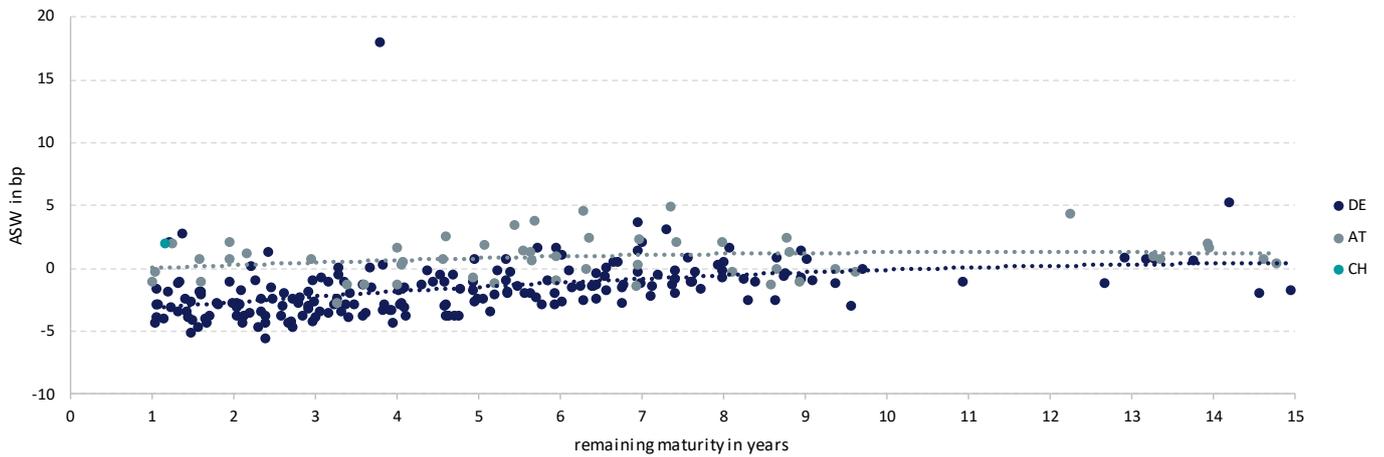


### Order books (last 15 issues)

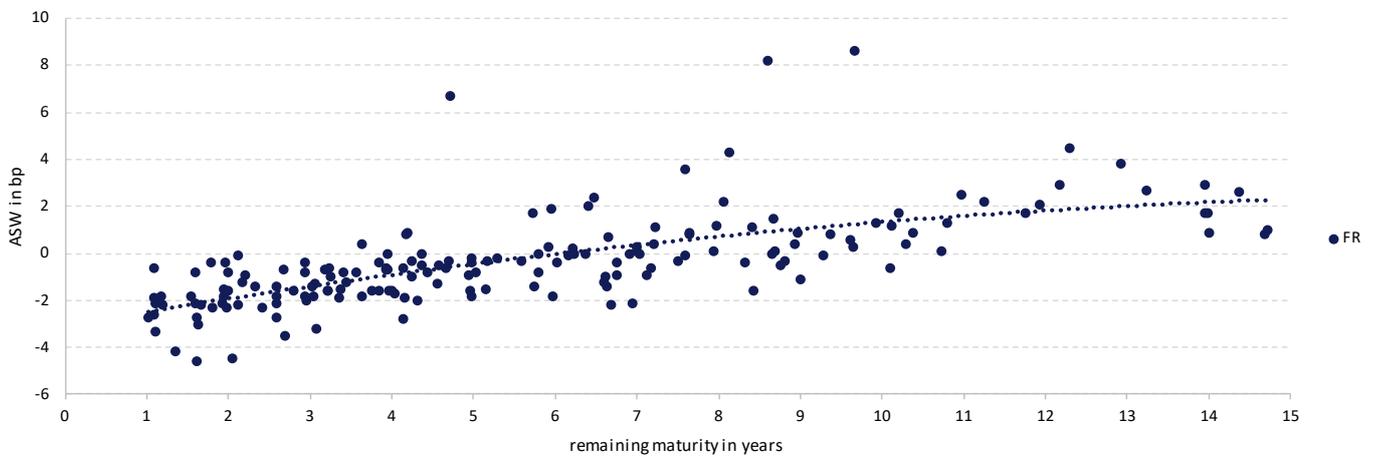


### Spread overview<sup>1</sup>

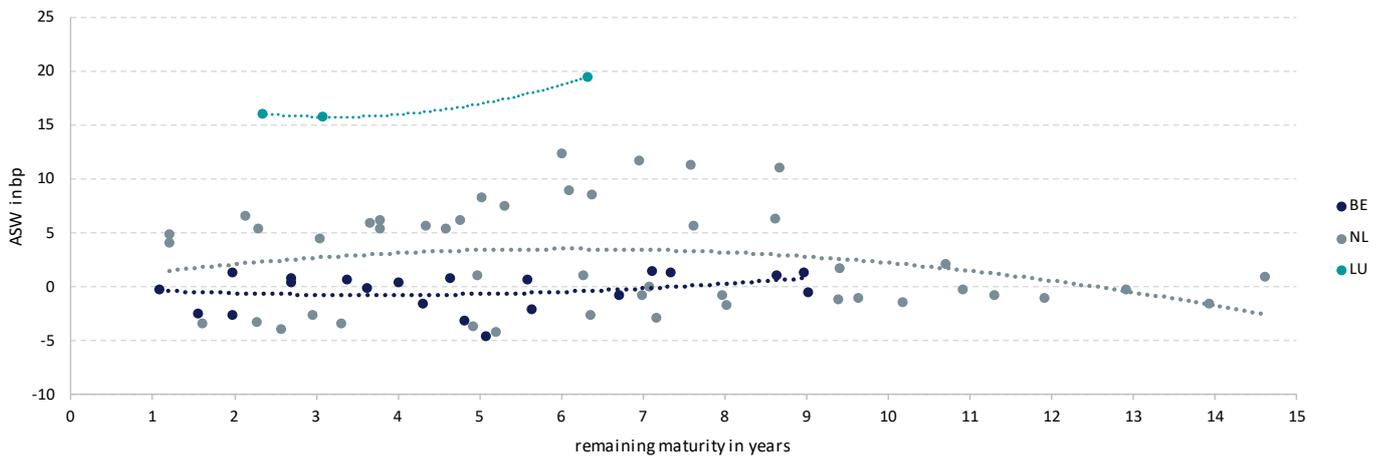
#### DACH



#### France

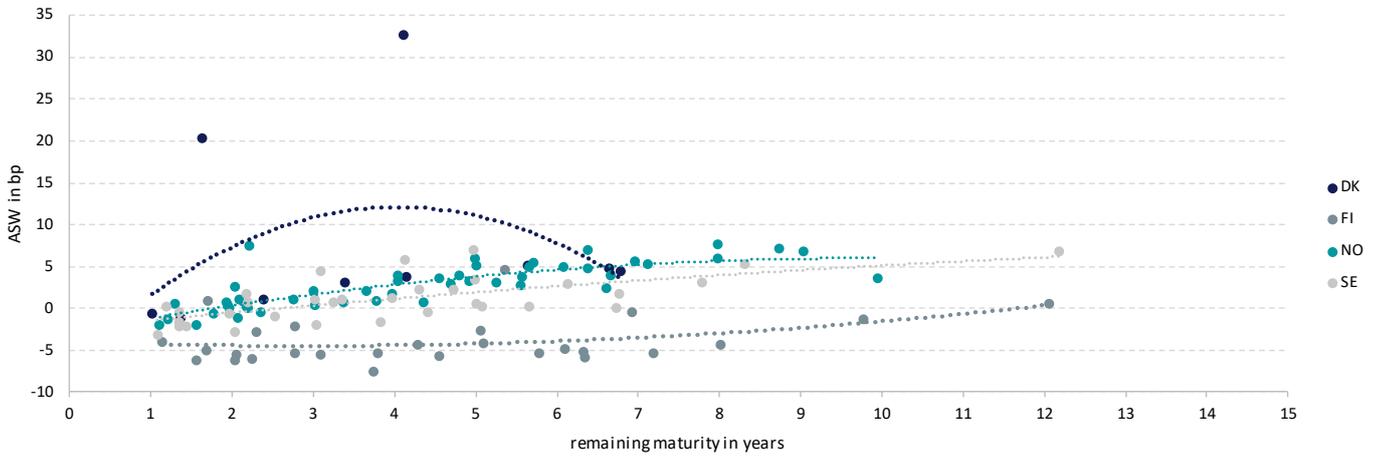


#### Benelux

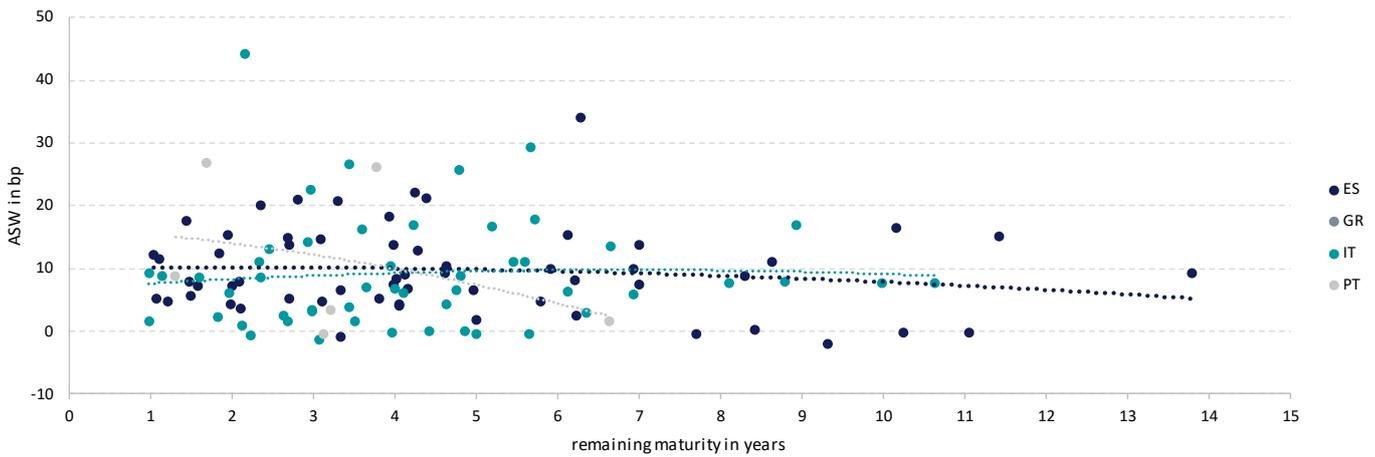


Source: Market data, Bloomberg, NORD/LB Markets Strategy & Floor Research <sup>1</sup>Time to maturity  $1 \leq y \leq 15$

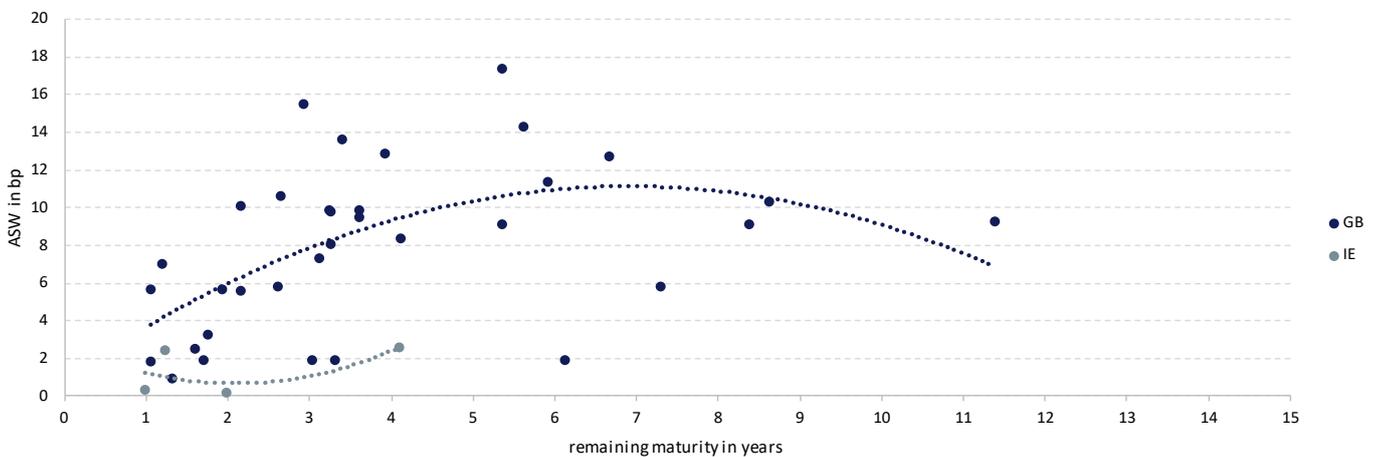
**Nordics** 🇩🇰 🇫🇮 🇳🇴 🇸🇪



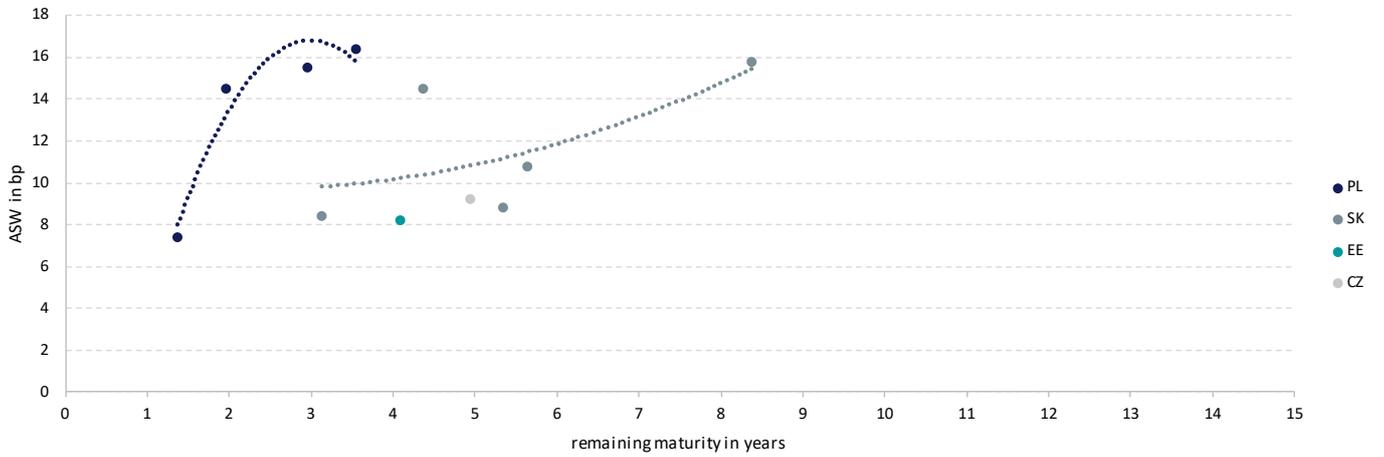
**Southern Europe** 🇪🇸 🇬🇷 🇮🇹 🇵🇹



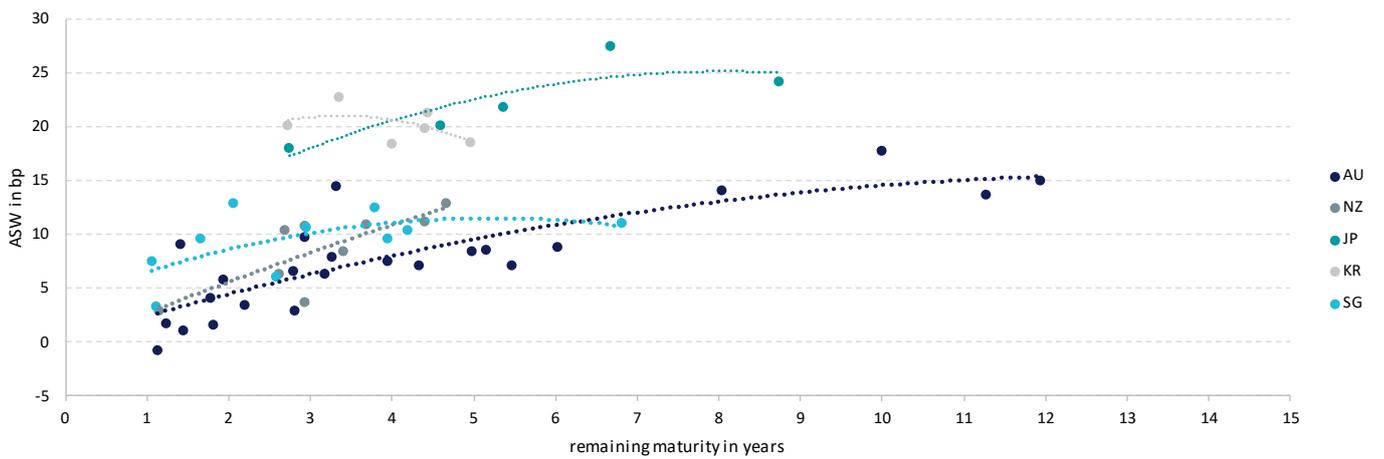
**UK/IE** 🇬🇧 🇮🇪



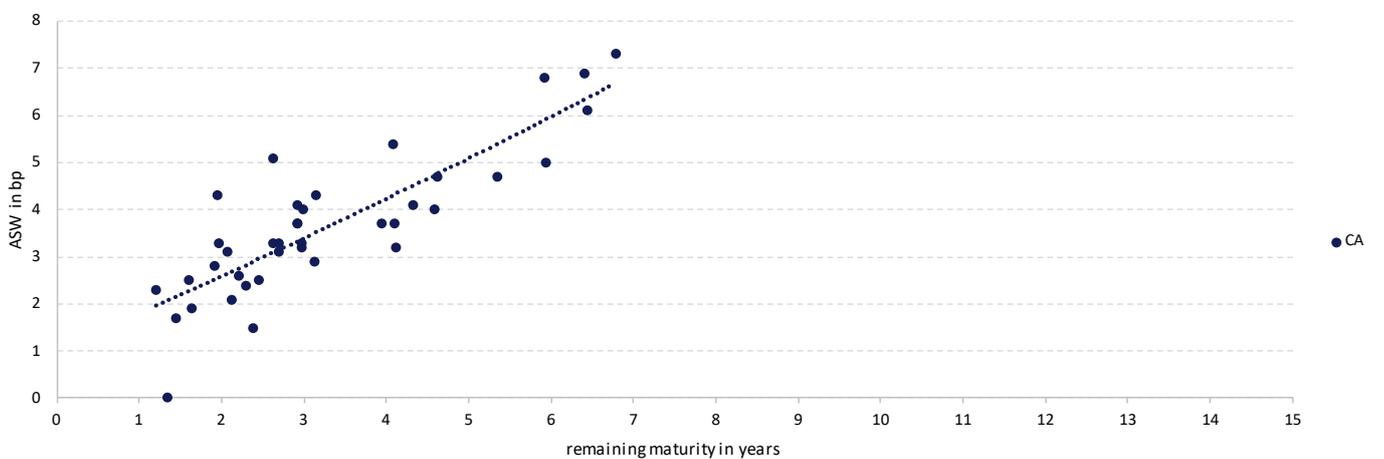
**CEE** 



**APAC** 



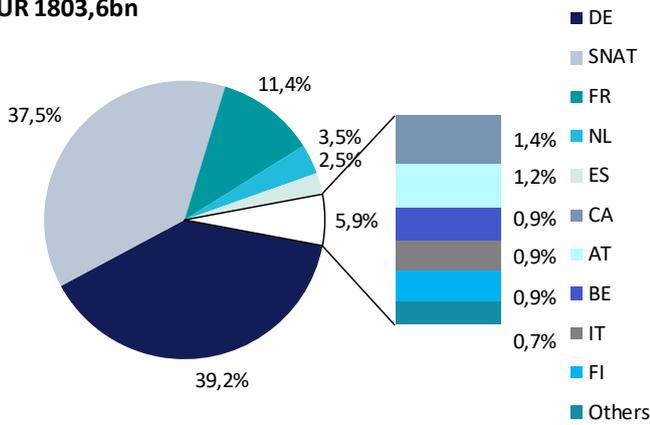
**North America** 



# Charts & Figures SSA/Public Issuers

## Outstanding volume (bmk)

EUR 1803,6bn



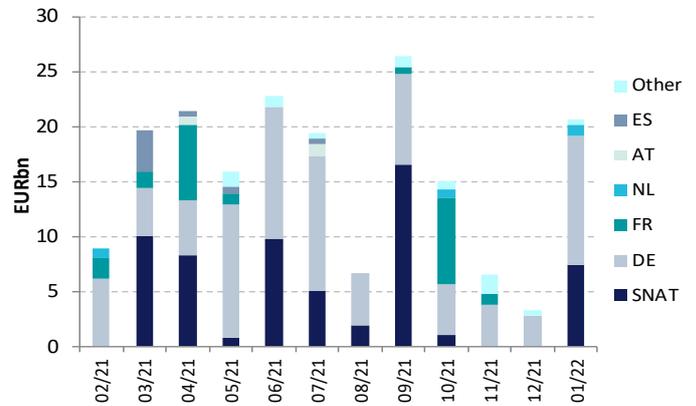
## Top 10 countries (bmk)

Country	Vol. (€bn)	No. of bonds	ØVol. (€bn)	Vol. weight. ØMod. Dur.
DE	706,5	553	1,3	6,6
SNAT	677,1	178	3,8	7,9
FR	205,6	145	1,4	5,3
NL	62,4	64	1,0	6,5
ES	45,1	53	0,9	4,5
CA	25,0	18	1,4	5,6
AT	22,5	24	0,9	5,3
BE	16,3	19	0,9	14,1
IT	15,8	20	0,8	6,0
FI	15,5	20	0,8	5,9

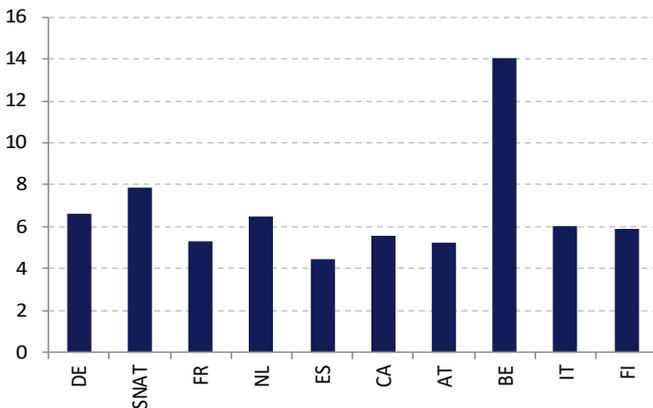
## Issue volume by year (bmk)



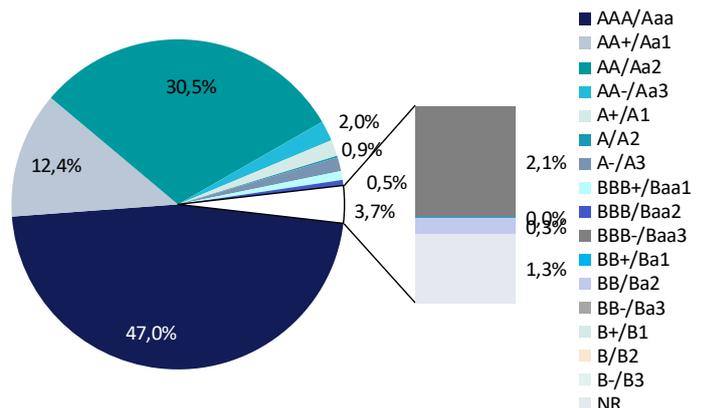
## Maturities next 12 months (bmk)



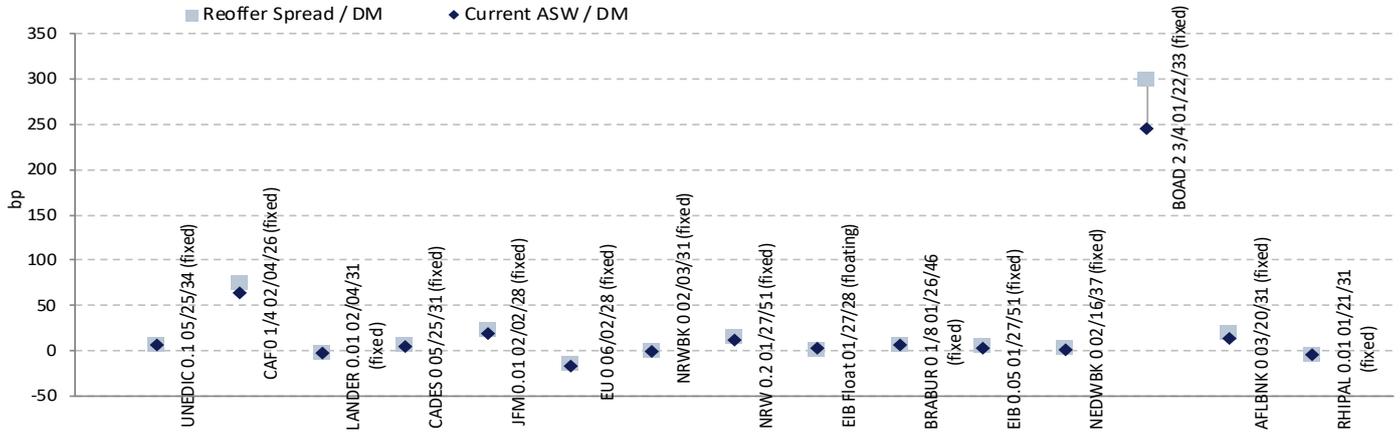
## Avg. mod. duration by country (vol. weighted)



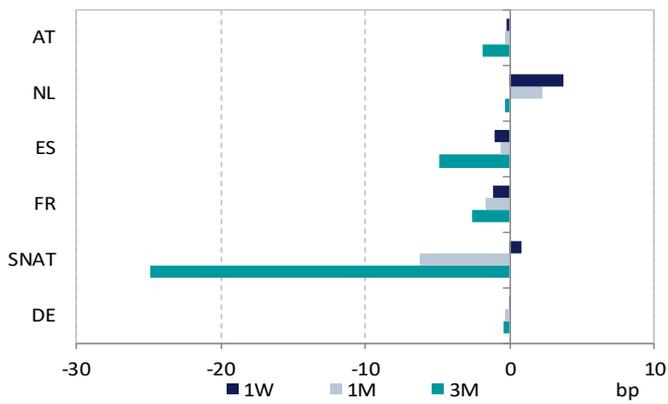
## Rating distribution (vol. weighted)



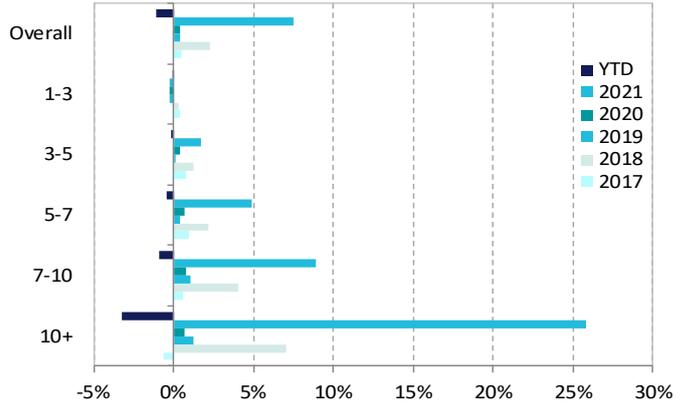
### Spread development (last 15 issues)



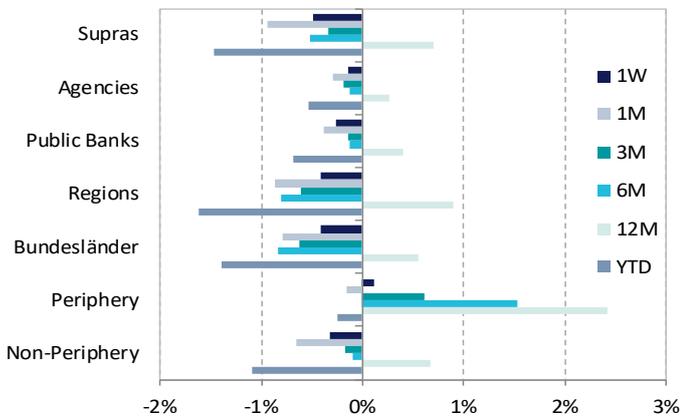
### Spread development by country



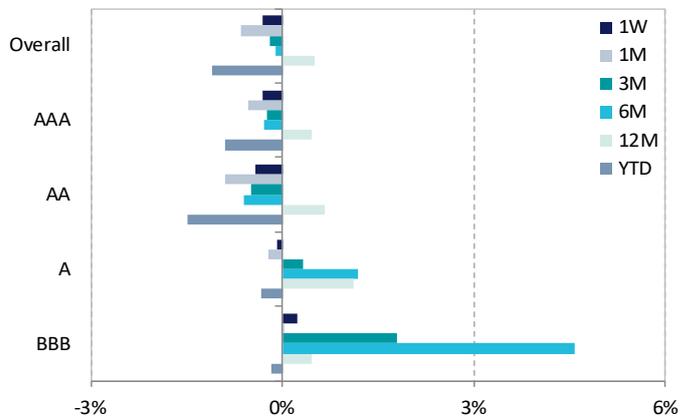
### Performance (total return)



### Performance (total return) by regions

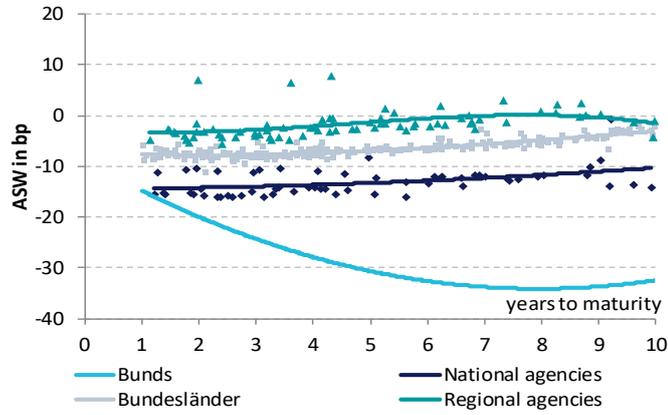


### Performance (total return) by rating

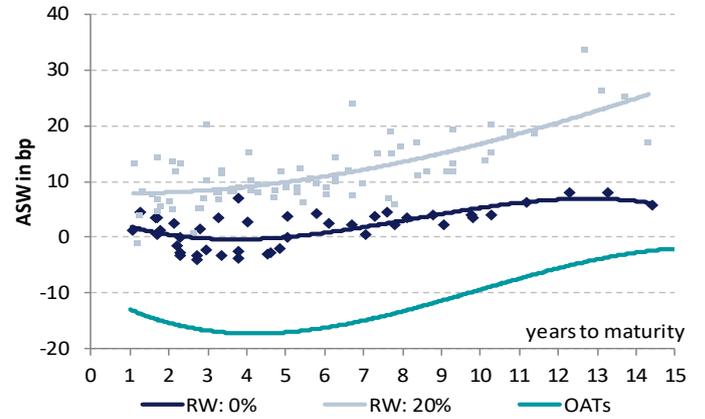


Source: Bloomberg, NORD/LB Markets Strategy & Floor Research

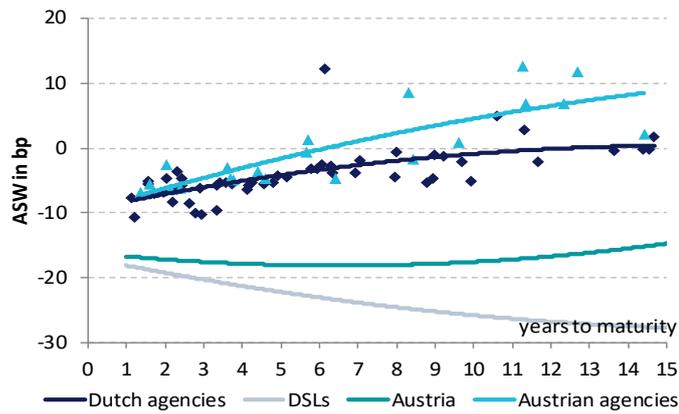
### Germany (by segments)



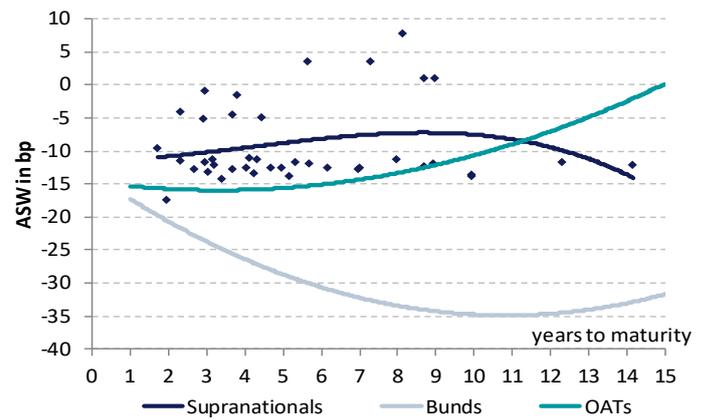
### France (by risk weight)



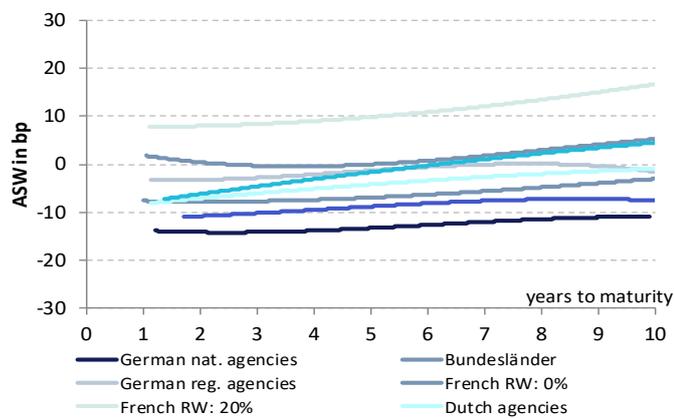
### Netherlands & Austria



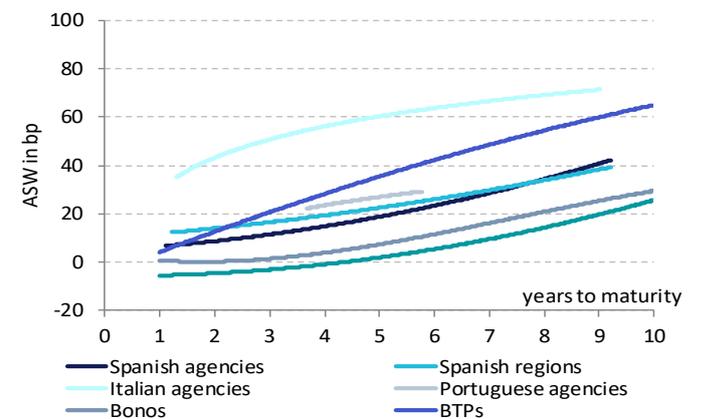
### Supranationals



### Core



### Periphery



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

## Appendix

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

Publication	Topics
<a href="#">04/2021 ♦ 03 February</a>	<ul style="list-style-type: none"> <li>Argenta Spaarbank expands Belgian market for EUR benchmarks</li> <li>An overview of the Fitch covered bond universe</li> <li>January 2021 packs a punch to kick off the new year</li> </ul>
<a href="#">03/2021 ♦ 27 January</a>	<ul style="list-style-type: none"> <li>An unusual – albeit expected – start to the year?</li> <li>A look at USD benchmarks</li> <li>ESM reform – restructuring continues</li> </ul>
<a href="#">02/2021 ♦ 20 January</a>	<ul style="list-style-type: none"> <li>Spread considerations – APAC covered bonds riding the wave of ECB purchase programmes?</li> <li>Return of the Danish market for EUR benchmark bond issues</li> <li>22nd meeting of the Stability Council (Dec. 2020)</li> </ul>
<a href="#">01/2021 ♦ 13 January</a>	<ul style="list-style-type: none"> <li>EUR benchmark from the Czech Republic: Komerční Banka launches a new covered bond programme</li> <li>New covered bond programme from South Korea: Hana Bank</li> <li>Annual review of 2020 – covered bonds</li> <li>Annual review of 2020 – SSA</li> </ul>
<a href="#">48/2020 ♦ 16 December</a>	<ul style="list-style-type: none"> <li>TLTRO III: ECB extends tender and also raises the threshold</li> </ul>
<a href="#">47/2020 ♦ 09 December</a>	<ul style="list-style-type: none"> <li>Fourth and final round of PEPP reporting in 2020</li> <li>Investment alternative: Paris metropolitan area (IDF and VDP)</li> </ul>
<a href="#">46/2020 ♦ 02 December</a>	<ul style="list-style-type: none"> <li>The ECB ahead of its course-setting meeting for 2021</li> <li>Covered Bonds – Outlook 2021: Waiting for the game changer?</li> <li>SSA – Outlook 2021: Coronavirus and ECB dominate public-sector segment</li> </ul>
<a href="#">45/2020 ♦ 25 November</a>	<ul style="list-style-type: none"> <li>UOB ends the state of hibernation on Singapore’s primary market</li> <li>The covered bond universe of Moody’s: an overview</li> <li>Update: Belgium regions as investment alternatives</li> </ul>
<a href="#">44/2020 ♦ 18 November</a>	<ul style="list-style-type: none"> <li>Primary market 2021: real prospect of Hungarian EUR benchmarks?</li> <li>German Pfandbrief savings banks in Q3 2020</li> <li>Development of the German property market</li> </ul>
<a href="#">43/2020 ♦ 11 November</a>	<ul style="list-style-type: none"> <li>Newcomer to the benchmark segment: HSBC Bank Canada sets sights on EUR debut</li> <li>OP Mortgage Bank: First green covered bond from Finland</li> <li>Transparency requirements §28 PfandBG Q3/2020</li> </ul>
<a href="#">42/2020 ♦ 04 November</a>	<ul style="list-style-type: none"> <li>Covered Bond Framework and Liquidity Coverage Ratio: European Commission presents draft version of amendments to LCR regulation</li> <li>An overview of the Fitch covered bond universe</li> </ul>
<a href="#">41/2020 ♦ 28 October</a>	<ul style="list-style-type: none"> <li>ECB: The year of the owl – review and outlook</li> <li>Yield developments on the covered bond market</li> </ul>
<a href="#">40/2020 ♦ 21 October</a>	<ul style="list-style-type: none"> <li>German building societies: EUR benchmark debuts and requirements for investing in soft bullet bonds</li> <li>NPLs in cover pools – lack of unified approach at national level</li> </ul>
<a href="#">39/2020 ♦ 14 October</a>	<ul style="list-style-type: none"> <li>Spain: Issuer consolidation ahead?</li> <li>PfandBG to include extendable maturity structures</li> <li>The EU has big plans – “SURE” and “Next Generation EU”</li> </ul>

## Appendix

### Publication overview

#### Covered Bonds:

[Issuer Guide Covered Bonds 2020](#)

[Risk weights and LCR levels of covered bonds](#)

[Transparency requirements §28 PfandBG](#)

[Transparenzvorschrift §28 PfandBG Sparkassen \(German only\)](#)

#### SSA/Public Issuers:

[Issuer Guide – Supranationals & Agencies 2019](#)

[Issuer Guide – Canadian Provinces & Territories 2020](#)

[Issuer Guide – German Bundeslaender 2020](#)

[Issuer Guide – Down Under 2019](#)

#### Fixed Income:

[ESG update](#)

[Analysis of ESG reporting](#)

[ECB holds course, but ups the ante – PEPP running until 2022](#)

[ECB launches corona pandemic emergency](#)

[ECB responds to corona risks](#)

## Appendix

### Contacts at NORD/LB

#### Markets Strategy & Floor Research



##### Michael Schulz

Head  
+49 511 361-5309  
+49 172 740 4123  
[michael.schulz@nordlb.de](mailto:michael.schulz@nordlb.de)



##### Dr Norman Rudschuck

SSA/Public Issuers  
+49 511 361-6627  
+49 152 090 24094  
[norman.rudschuck@nordlb.de](mailto:norman.rudschuck@nordlb.de)



##### Melanie Kiene

Banks  
+49 511 361-4108  
+49 172 169 2633  
[melanie.kiene@nordlb.de](mailto:melanie.kiene@nordlb.de)



##### Henning Walten

Covered Bonds  
+49 511 361-6379  
+49 152 545 67178  
[henning.walten@nordlb.de](mailto:henning.walten@nordlb.de)



##### Dr Frederik Kunze

Covered Bonds  
+49 511 361-5380  
+49 172 354 8977  
[frederik.kunze@nordlb.de](mailto:frederik.kunze@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
Länder/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 as NORD/LB's relevant registration form, all of which are available for download at [www.nordlb.de](http://www.nordlb.de) and may be obtained free of charge from NORD/LB, Georgsplatz 1, 30159 Hanover, shall be solely binding. Furthermore, any potential investment decision should be made exclusively on the basis of such (financing) documentation. The present information cannot replace personal advice. Before making an investment decision, each Recipient should consult an independent investment adviser for individual investment advice with respect to the appropriateness of an investment in financial instruments or investment strategies subject to this information as well as for other and more recent information on certain investment opportunities.

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

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

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

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

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

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

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

#### **Additional information for Recipients in Australia**

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

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

#### **Additional information for Recipients in Austria**

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

#### **Additional information for Recipients in Belgium**

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

**Additional information for Recipients in Canada**

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

**Additional information for Recipients in Cyprus**

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

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

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

**Additional information for Recipients in Denmark**

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

**Additional information for Recipients in Estonia**

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

**Additional information for Recipients in Finland**

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

**Additional information for Recipients in France**

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

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

**Additional information for Recipients in Greece**

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

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

**Additional information for Recipients in Indonesia**

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

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

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

**Additional information for Recipients in Japan**

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

**Additional information for Recipients in South Korea**

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

**Additional information for Recipients in Luxembourg**

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

**Additional information for Recipients in New Zealand**

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

**Additional information for Recipients in the Netherlands**

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

**Additional information for Recipients in Poland**

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

**Additional information for Recipients in Portugal**

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

**Additional information for Recipients in Sweden**

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

**Additional information for Recipients in Switzerland**

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

**Additional information for Recipients in 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:** 10 February 2021 08:55h (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](http://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:** 36%

**Neutral:** 50%

**Negative:** 14%

**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](http://www.nordlb-pib.de/empfehlungsuebersicht_renten). The password is "renten/Liste3".

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