## Inflation, geopolitics & **QT (Quantitative Tightening)** Part 2

Since our previous Newsletter, the outlook for inflation has deteriorated and there is no indication that it will fall much from current levels. Rather, inflation is more likely to worsen before it eases. This brings the ECB and Quantitative Tightening to the forefront of the economic agenda for the coming 6-12 months.

#### debt (PSPP), Corporate Sector debt (CSPP), Asset-Backed Securities (ABSPP) and Covered Bonds (CBPP3) in combination with the Pandemic Emergency Purchase

Program (PEPP). In our previous Newsletter, we highlighted an expansion of the ECB's balance sheet of more than EUR 4 trillion. A large part of this expansion is due to these purchase

umbrella program for buying Public Sector

programs. In total, these programs amount to just below EUR 5,000 billion (see Figure 1, below) Figure 1 - Bond purchase by ECB under APP and PEPP source ECB **EUR Billions** Covered bond purchase programme 3 Corporate Sector purchase programm

PEPP and APP going forward - Quantitative Tightening?

Regarding the PEPP, the ECB has posted the following information on its website:

On 16 December 2021, the Governing Council

reinvest principal amounts all the way through 2024, meaning that only from the start of 2025 will it begin withdrawing liquidity from the system.

The ECB's approach regarding the APP is

slightly more sophisticated, but provides a

very good idea about its future game plan.

On 16 December 2021, the same day it

decided to end the PEPP, the ECB also

month from October 2022 onwards.

announced a gradual reduction in bond

purchases under APP to EUR 20 billion per

billion of eligible bonds per month. Going forward, the ECB will buy less than a quarter The ECB offers the following information regarding future investments under the APP: In addition, reinvestments of the principal payments from maturing securities

**Implementing Quantitative Tightening** Its current monetary policy stance and the information given about holdings in the purchase programs enable a general understanding of how a "managed"

In our judgement, it is difficult to envisage a

scenario in which the ECB will do more than

just run down the portfolio of bonds in the

communications from the ECB, we can set

A total portfolio of EUR 5,000 will have to

• Weighted average maturity (WAM) of the

out the following parameters for a QT:

run down over the next 30 years.

Quantitative Tightening could be

Combining the information and

implemented by the ECB.

various programs.

decided to discontinue net asset purchases under the PEPP at the end of March 2022. The maturing principal payments from securities purchased under the PEPP will be reinvested until at least the end of 2024. In any case, the future roll-off of the PEPP portfolio will be managed to avoid interference with the appropriate

purchased under the APP will continue, in full, for an extended period of time past the date on which the Governing Council begins to raise the key ECB interest rates, and in any case for as long as necessary to maintain favourable liquidity conditions and an ample degree of monetary

In other words, the ECB will not start

accommodation.

portfolio. When calculating Weighted Average Maturity, a 10-year bond has 10 times the weight of a 1-year bond, and this helps us to understand where the largest part of the notional amount of the portfolio is allocated. For a portfolio with a WAM of 7.5 years, it is a

reasonable guess that up to 60-70% of the

portfolio's notional amount will expire in the

first 8 years after the ECB begins unwinding

70% of the current portfolio is equal to EUR

implying a EUR 500 billion drain in liquidity

3,500 billion over approximately 7 years,

from the financial markets every year.

its APP and PEPP portfolios.

understand that the ECB has been supporting the bond market since 2014 and that the unwinding of the portfolio will take a long time. Figure 2, below, shows the monthly net purchases under APP and PEPP since 2014 together with an estimate of a possible

scenario of the unwinding of the two

portfolios starting in 2024, taking into

While the unwinding may well be quite

different from the postulated scenario, the

the ECB at this point in time.

**EUR Billions** 

corporates.

account the information made available by

Normally, the public sector will replace an old bond with a new bond, which will be issued to cover the repaid principal. In short – money in and money out of the system, leaving overall

With EUR 500 billion liquidity drained from the system, an ECB rate hike to bring inflation down will lead to funding costs for all companies to increase significantly over the coming years. Regarding the valuation of equities, higher funding costs combined with higher discount

corporate bond yields further down the line. The ECB has bought around 1,800 different bonds with an average nominal interest rate of 1.41% and an average maturity of just over 5 years issued by high-rated corporates. The lowest observed nominal interest rate on these bonds is zero.

The Joseph effect and ECB

equity markets going forward.

The Joseph Effect is a term coined by the French mathematician Benoit Mandelbrot and postulates that movements over time tend to be part of larger trends and cycles more often than being random. It is derived from the Old Testament story about the Pharaoh's dream for seven fat cows and seven lean cows as recounted by Joseph. A dream, which led ancient Egyptians to

"famine" when the APP and PEPP portfolios are unwound? Only time will tell.

he ECB and its bond purchase programs APP, PSPP, CSPP, ABSPP, CBPP3 and PEPP are all ongoing ECB purchase programs that give the ECB a mandate to buy massive amounts of bonds in the market. APP is the "Asset Purchase Program": the

In recent months, the ECB has slightly adjusted its policy stance by scaling back the purchase programs. However, an actual tightening is not planned.

## monetary stance. The ECB has stopped buying bonds under the PEPP program, but will continue to

# During the full PEPP and ABP, the ECB was buying between EUR 80 billion and EUR 120 of previous amounts.

before it hikes rates, but not implement an actual QT.

quantitative tightening until after it has begun

to raise rates. The ECB might cease buying

portfolios is approximately 7.5 years. • QT under the PEPP program will not start until 2025 QT under ABP will start after rate-hiking has commenced. The ECB has not revealed its redemption scheme for periods beyond the next 12 months, during which time we already know

that principal amounts will be reinvested.

Neither has the ECB disclosed the holdings,

except for corporate bonds, currently in its

**Implications of EUR 500** billion QT per year on the financial markets Implementing a QT will not be an easy task

for the ECB, especially given that inflation is

currently rampant. It is also important to

### chart nevertheless clearly illustrates how long and deeply liquidity and the financial markets will be affected by QT. Figure 2 - Net purchases under APP and PEPP with a possible roll-off scenario source ECB and own calculation

When the ECB eventually starts offloading its

bond holdings, it will most likely not sell bonds

directly in the market. However, the effect of

ECB ending reinvestments will be felt in the

The following example illustrates the liquidity

principal amount of the expiring bond will, of

bond markets for both governments and

flow of a maturing government bond.

When a government bond matures, the

course, be repaid by the government.

Estimated Roll-off of APP and PEPP portf

liquidity in the monetary system unchanged. At the point when the ECB begins to reduce its portfolio, an average of more than EUR 40 billion will be drained from the system every month. Those EUR 40 billion will not be available for reinvestment, all other things being equal, it will require a higher premium or interest rate to attract investors in order to be able to refinance the matured

Since the ECB announced a reduction in its

purchase programs on 16 December 2021, the

beginning of May 2022, an increase also driven

yield on 10-year German government bonds

has risen from -0.34% to just over 1% at the

It is difficult to imagine a scenario in which

Effect on corporate bonds

and equity markets

yields on 10-year German government bonds

will return to negative rates in the near future.

Under the CSPP, the ECB holds a portfolio of

European corporate bonds; as it publishes

the list of corporate bonds it holds, this can

give an indication of what will happen to

principal amount.

by higher inflation.

rates for future cash flow can only be offset by higher earnings, so it is difficult to justify the very high P/E numbers currently seen in the

expect a crop famine lasting seven years to be followed by seven years of bountiful harvest.

The ECB has created seven bountiful years

from 2014 until 2021 for investors, but will its

monetary policy lead to seven years of

our website: Quantrom.com or Quantrom.dk (Danish version) where more information for investors is also available.

+353 1 513 6215 client@quantrom.com

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Limerick, Ireland