

## COVID-19 TO WEIGH ON INTEREST RATES

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# EXECUTIVE SUMMARY



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- In the wake of Covid-19, developed markets' long-term yields have fallen significantly. However, market participants seem uncertain how to integrate the ensuing massive fiscal and monetary easing in their medium-term rates expectations.
- Our proprietary long-term sovereign yields model points to a persistently low interest rate environment over the next few years; the massive, prolonged intervention of central banks on global government bonds will remain a major factor.
- However, the additional flows of risk-averse private financial savings will also exert a remarkable downside pressure on long-term yields. In the Eurozone, the cumulative flow of private financial savings has so far exceeded the volume of QE. We expect the rapidly growing amount of fresh financial savings not to be matched by a proportional increase in the free float of safe assets.
- As to metrics of public debt, our research suggests that they do not have explanatory power on yield levels in developed markets in the medium term.
- We believe there are only two possible scenarios in which long-term yields could possibly see a significant rise: an inflationary shock or a monetary policy error. But even in these cases the increase would be limited. For the 10y German Bund the yield would rise to around 0%; for 10y U.S. Treasuries the yield would increase to 1.8 to 2.0%.
- As for Euro sovereign spreads, they have also become much more sensitive to the interventions of the central banks and private sector savings than to any debt-related factor.

## **MID-TERM RATES OUTLOOK**

In the current environment, forming expectations about long-term interest rates on a medium-term horizon is a challenging task. Market participants do not yet • seem unanimous on how to represent the massive fiscal and monetary easing in their valuation models.

We have identified a series of factors that have proven highly significant for the mid-term development of U.S. and These factors are (see Table 1):

- inflation expectation + potential real U.S. and the Eurozone. growth)
- bond supply and duration risk

- tions algorithm on policy rates)
- Short-term expectations of policy Figure 1). rates as priced by money market forwards
- Private sector risk aversion and financial savings propensity (safe asset demand)

Central bank Quantitative Easing Our models suggest that the interplay of in the Eurozone, see Figure 2). (volumes, length and reinvestment these factors will result in a persistently policy) and its effect on government low interest rate environment in the medium term for both the U.S. and the Euro-

Long-term expectations of neutral zone, especially in the context of central rate (using an adaptive expecta- banks exerting substantial buying pressure on government bond markets (see

These results become intuitively understandable if one takes a closer look at certain components of the model. First, the Covid-19 related growth shock of 2020 should reduce nominal trend Eurozone yields over the last 60 years. Given the relevance of each factor and growth. In our model, this will translate its sensitivity, it is possible to derive a immediately into long-term rates as each Nominal trend GDP (long term mid-term outlook for 10y yields in the -1% goq decrease in nominal growth reduces the long-term interest rate equilibrium by around 10bps (currently at 3%

		Relevance	evolution until 2021	exp. impact on yields	evolution until 2023	exp. impact or yields
Real econom	у					
	Nominal trend GDP	***	down	down	up	down
	Inflation expectations <sup>1</sup>	***	down	down	up	down
	Inflation volatility	*	up	up	flat	flat
International	rates					
	International LT yields	***	flat	flat	flat	flat
Monetary po	licy					
	Perceived policy rate (LT) <sup>1</sup>	***	flat	flat	flat	flat
	Forward guidance (ST)	***	flat	flat	flat	flat
	QE	***	up	down	up	down
Supply/demo	ınd dynamics					
	Term premium	**	down	down	flat	flat
	Stock-flow pressure	*	up	flat	flat	flat

up

flat

down

none

none

Debt/GDP ratio

Public deficit

Table 1: 10y Bund yield fundamental factors

Debt sustainability

using adaptive expectations algorithm

Figure 1: Medium-term 10y Bund yield model



Figure 2: Long-term 10y Bund yield model



Sources: Refinitiv, Allianz Research

Sources: Refinitiv, Allianz Research

periods of time (maximum six months wing accounting identity: during the 2008 Global Financial Crisis).

Third, as a major aspect of the Covid-19 nancial balance + current account PEPP program is conducted at full pace crisis, private investors (households and corporations) will increase their financial savings and become at the same time where a sector's financial balance is the more risk-averse (increased hoarding). The policy challenge is to re-inject these precautionary balances into the economy and capital markets by restoring confidence in the future or by destroying the credibility of money as a store of value. This will be a long-term process. In the meantime, we expect the Eurozone especially to generate an increase in private financial savings that could easily exceed the increase in public deficits. The rising EMU trade surplus due to the contraction in imports triggered by contracting domestic demand, and the fall in the oil price, are already pointing into that direction. Failing this complementary assumption, why would the economy fail to recover at a decent pace? We

before engaging in a moderate upward surplus of more than EUR300bn a Figure 5). trend later. Current market-based infla-year. Cumulatively since 2014, the tion expectations are close, if not below, flow of fresh private financial savings. The increased competition for safe asour lower estimation range (even after has indeed exceeded the volume of sets between risk-averse private savings taking into account the latest drop in oil QE. It has thus contributed signifi- and price-insensitive central banks will prices, see Figure 3). We therefore consi-cantly to the decline of interest rates. lead to a further decline of the compender inflation risk to be moderate in size Unlike public deficits, private financial sation for holding longer-term bonds but skewed to the upside. After all, infla-savings are not making media hea- (term premium). This reduces duration tion expectations have never remained dlines. Yet, regularly and frequently, they risk and exerts downward pressure on outside our estimation range for longer can be estimated, thanks to the follo- yields. In the Eurozone, the dampening

balance = 0

difference between lending its net (acquisition of financial assets) and net borrowing (issuance of financial liabilities).

This relationship can also be seen in the correlation of EMU long-term yield with the current account balance (see Figure

We expect that this rapidly growing amount of financial savings will not be matched by a proportional increase in the free float of safe assets (= supply of government bonds after QE purchases). In the Eurozone, for instance, due to the combined effect of the Public Sector Purchase Programme (PSPP) and the Pandemic Emergency Purchase Pro-

Second, we expect inflation to be di- have been there before, as shown by the gramme (PEPP), we expect the free float rected downwards at first (deflationary large increase in the EMU current ac- of government bonds to increase only by effect especially through energy prices) count balance since 2011, from 0 to a 1% despite sharply rising deficits (see

> effect of QE on 10y yields is currently estimated between -90bps and -160 Private financial balance + public fi- bps. It could reach up to -200bps if the (EUR750bn p.a.) and, as we expect, extended until end of 2021 (see Figure 6, left chart). In the U.S., the dampening effect of QE on 10v yields is currently estimated at around -50bps to -80bps. It could double if, as we expect, the expansionary monetary policy is continued in a similar way in the coming years (see Figure 6, right chart). With already negative and declining term premia, an increase in long-term yields could only be possible if either expected short-term interest rates, inflation expectations or uncertainty about future inflation (inflation risk premium) increase substantially. None of this seems very likely in the medium term.

Figure 3: US 10y Market-based inflation expectations



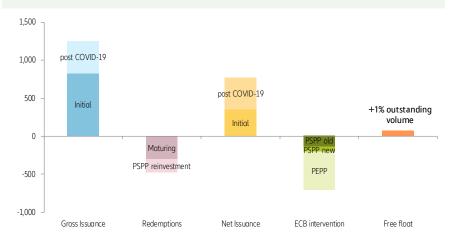
Sources: Refinitiv, Allianz Research

Figure 4: EMU long-term yields modeled with current account balance



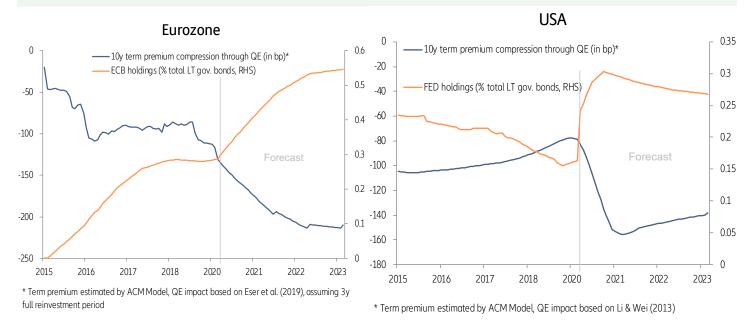
Sources: Refinitiv, Allianz Research.

Figure 5: EMU 2020 long-term government bond supply and ECB interventions (in EURbn)



Sources: National governments, National debt agencies, Refinitiv, ECB, Allianz Research

Figure 6: QE exerts structural downward pressure on long-term yields



Sources: Refinitiv, Allianz Research

Some might believe that an increase in ings are nealected. We are not saying All in all, we expect nominal long-term yields could also be caused by a supply that public finances never have any in-yields to remain in check in 2020 and for shock due to a massive rise in govern- fluence on yields. They can exert upward a great part of 2021. 10y Bund yields ment debt. The current widening of the pressure in a particular situation when should remain anchored at -0.5% and deficits worldwide would thus be a fore- high financing needs (deficit and inter- 10y U.S. Treasuries at ~1.0% (see Table runner of higher yield levels. However, ests) and abundant government bond 2). By the end of 2021 and until the end our research has shown that debt met- supply meet very price-sensitive buyers of 2023, we expect inflation to gradually rics such as public debt/GDP and public investing scarce savings (stock-flow prespick up and exceed pre-crisis levels. Cendeficits are not relevant for the develop- sure). But this situation does not corre- tral banks might then start reduce their ment of yields in the medium term. It spond to the current environment of ex- market impact. As a direct consequence, could only be the case in a partial equi- cessive savings and strong market inter- we expect long-term yields to resume librium perspective if interdependencies ventions of price-insensitive central their pre-crisis gradual ascent to moderbetween public debt supply, central banks. bank reaction and private financial sav-

ately higher levels converging to our long-term fair estimate.

Table 2: Long-term yields scenario					
Mid-term rates outlook					
Eurozone	Unit	2020	2021	2022	2023
Sovereign rates					
10y Germany (Bund)	%	-0.5	-0.3	-0.1	0.1
10y Swap rate	%	0.0	0.3	0.5	0.7
20y Swap rate	%	0.3	0.7	0.9	1.1
10y Italy	%	1.7	1.4	2.2	2.4
Spread 10y Italy - 10y Germany	bps	220	175	225	230
United States	Unit	2020	2021	2022	2023
Sovereign rates					
10y US Treasury	%	1.0	1.4	1.7	1.8
Spread 10y US - 10y Germany	bps	<i>150</i>	170	180	170
Sources: Allianz Research					

## SCENARIOS FOR A HIGHER YIELD EQUILIBRIUM

However, given the strong impact of yield changes on the balance sheet of the financial sector, we try to consider scenarios in which yields could experience a sudden upwards shift into a new equilibrium of higher long-term (benchmark) vields.

Based on our models, only two such scenarios seem conceivable:

**Inflationary shock**: A scenario in which the current fiscal and monetary easing leads to a significant inflation overshoot and a repricing of inflation expectations. After an initial deflationary shock, the demand created by the fiscal and monetary stimulus might indeed create some unexpected "old-fashioned moneychasing-scarce-goods-inflation" when meeting limited supply due to subdued production capacities and fragile international supply chains. In this context we could also expect higher inflation volatility (mainly due to energy prices), which could lead to a higher inflation risk premium putting additional upward pressure on yields. In this scenario, 10y Bund yields could rise up to 0.1% (+60bps from today's values) and 10y U.S.

Treasuries up to 2.0% (+120bps from today's value) (see Table 3).

Monetary policy mistake: A scenario in which central banks mistakenly pull off from markets too early, creating significant economic and financial imbalances (e.g. ECB not extending PEPP until end of 2021). Under this scenario, 10y Bunds could experience an immediate +50bps upwards shift coming from pricing QE and money markets predating their expectations for a first rate hike (see Figure 7). Similarly, a somehow comparable combination of the U.S. Fed policy mistakes could lead yields • on 10y U.S. Treasuries to increase by 100bps (see Table 3).

For individual sovereigns, a rise of long-term rates could also be triggered by an increase in the risk premium, i.e. its spread versus the benchmark curve. This mainly concerns Eurozone sovereigns. For Italy for instance, our 10y BTP model allows us to derive two scenarios that would lead to a quick and steady increase of the Italian risk premium (10y vs DE):

- Massive debt shock: A supply shock scenario in which an unexpected increase in public debt (+20% from current level, which already includes fiscal crisis measures) creates a strong temporary imbalance of supply and demand. In that scenario, the risk premium would only increase to 283bp in 2023 mainly due to reactive central bank purchases. Debt metrics have lost much explanatory power since the ECB has entered the government bond market as a major price-insensitive buyer (see Table 4 and Figure 8).
- Monetary policy error: A demand shock scenario in which the ECB mistakenly pulls off from markets too early, creating significant economic and financial imbalances (e.g. abruptly withdrawing PEPP in 2021). Under this scenario, the risk premium would rise to 335bp in 2023 (see Table 4 and Figure 8).

This shows that sovereign risk premia in the Eurozone have become more sensitive to the interventions of the central bank than to debt metrics

Table 3: Higher long-t	able 3: Higher long-term rates shock analysis						
	Shock	Impact on yield level	yield level				
10y Bund							
Inflation shock							
	Inflation exp.+60%	+60bp	0.1%				
Monetary policy error							
	PEPP stopped in 2021	+50bp	0.0%				
10y US Treasury							
Inflation shock							
	Inflation exp.+60%	+120bp	2.0%				
Monetary policy error							
	QE strongly reduced in 2021	+100bp	1.8%				
Course: Allianz Docoarch							

Table 4: 10y Italian sovereign spread scenarios

	Base line		Monetary policy error		Debt Shock	
	2020	2023	2020	2023	2020	2023
Public debt (in % GDP)	169	156	169	156	189	176
ECB asset purchases (avg. p.a., € bn)	1110	240	1110	0	1110	1140
Model: 10y BTP spread	183	247	183	338	251	283

Source: Refinitiv, Allianz Research

Source: Allianz Research

2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

Source: Refinitiv, Allianz Research

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