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Inflation, Debt and the Government WUTIS Summer project

Team Overview

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What's going on in markets?



Economies in recovery mode on steroids are boosting inflation expectations



- "Core" PCE price index is defined as personal consumption expenditures (PCE) prices excluding food and energy prices
- Levels not seen since the early 90's

- May CPI Print (all items) came in higher than expected, re-igniting the inflation concerns
- While month on month change sunk slightly to 0,64%, year on year rose to nearly 5%



What's going on in markets?

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Economies in recovery mode on steroids are boosting inflation expectations



What's going on in markets?

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Inflation expectations up, Real yields under pressure



- Real rates are defined by nominal yields inflation, essentially what you earn on the bonds when accounting for inflation
- In 2013 the FED was under similar pressure to raise rates because real yields were low

- Breakeven rates are derived from nominal yields and inflation indexed yields
- Give an indication of inflation expectations over the tenor of the bond and have been

the primary focus of market participants since COVID



US Real yields are facing downwards pressure

Why is the CPI print so high?



Sectors that still have not recovered to pre-pandemic levels are driving inflation

 Used vehicles dealerships struggling 	High May CPI print due to used cars & commodity push				
 Global Supply channels still failing to adapt to turbocharged 	2	2019 Jan 2021 May	% YoY		
demand	СРІ		5		
	Core CPI		4		
 Lodging away from home & tobacco are also being pushed up 	_				
	Owners' equivalent rent		2		
	Food		2		
	Energy		28.55		
	Rent of primary residence		2		
	Education & communication		2		
	Medical care services		2		
	Recreation		2		
	Transportation services		11.18		
	Household goods & services		4.56		
	New vehicles		3		
	Apparel		5.56		
	Personal care		2		
	Medical care commodities		-2		
	Used vehicles		29.74		
	Water, sewer & trash		3		
	Alcoholic beverages		2		
	Lodging away from home		9.00		
	Tobacco & smoking		7.26		

Why we think inflation is currently at the levels we are seeing



Base effect was to be expected and FED is skewing the picture



- Base effect: YoY change appears very strong due to the lows of 2020 covid price implosion
- While the base effect might skew the picture, it is not the prime reason for the high CPI

print

- TIPS: Treasury Inflation Protected Securities
- TIPS are highly volatile and therefore not the best inflation measure
- % of total treasury market has dropped recently
- FED is big buyer of TIPS (~25% of entire market) slightly skewing inflation expectations as real yields are pushed down

Base Effect – abruptly low 2020 prints result in exaggerated YoY changes



The Money Supply Argument

Money Supply might not necessarily directly cause inflation



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US Wage growth and the labor market



Unless there isn't a large increase here, we do not see inflation to be a threat

- Unit Labor Cost = (Compensation per hour) / (Output per hour)
- Deflationary pressures that existed before the pandemic have not vanished





US Wage growth and the labor market



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Unless there isn't a large increase here, we do not see inflation to be a threat



• Labor force participation peaked mid 90's and has been on steady decline



Unemployment

Unemployment is still above pre-pandemic levels

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Inflation conclusion



Hedging with commodities and correlation breakdown





Corporates



Too much cash, too much debt, spreads are compressed and balance sheets exploding

Most of investment grade tranche is being issued at lowest bracket, implying

companies might not have the incentives to maintain good credit rating





• Spreads have already reached pre-pandemic lows, implying huge demand for fixed

income

Yields and Delinquencies

Surprisingly low delinquencies in covid pandemic



Delinquency rates (ie. failing to make payments on time) have been low this pandemic

Developed economy yields are at record lows





No limits



No one really knows how high the debt-to-GDP ratio can get. We can only know once we get there





Central Banks & Debt

Central Bank involvement



Monetary policy co-movement very apparent over last decade

• Global negative yielding debt hit new milestone thanks to the pandemic





Maturity Mismatch

Market needs more bills

- T-bills are being issued in larger amounts in a crisis to have immediate funding available
- Demand for bills is high however and market participants are yearning for short term cash deposits
- FED is issuing still majority in longer maturities





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Excess liquidity

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Reverse Repos & FED Funds



- Lower limit - Fed Funds - Upper limit - Fed Funds - Effective Fed Funds

• **Reverse Repo:** A reverse repo is a short-term agreement to purchase securities in

order to sell them back at a slightly higher price.

- Overnight Rate: 0,00%
- FEDs attempt to keep rates from hitting negative territory

Tackling the mountain of debt

What options are there?

Debt does not normally fall when inflation rises

Two-year cumulative change in debt:GDP and GDP deflator, OECD economies



Different Types of YCC

Policy Signaling		Incremental (RBA Style)		Long-Term (BOJ Style)	
Pros	Cons	Pros	Cons	Pros	Cons
Complement forward guidance	Focus on short term securities may result in limited effects for long rates	Gradually moving along the yield curve depending on economic conditions	Effect on longer term securities limited	Directly lowers long-term rate	Adds long-term securities to central bank balance sheets
Natural expiration date, facilitating exit		Natural expiration date		Lowers term premium and reduces the amount necessary to keep long term rate at desired level	Capital losses if short-term rate move first
		Easy to understand, natural extension targeting overnight rate		Likely spillovers to other asset classes	

Source: Bloomberg Intelligence & FRED

Source: UBS calculations



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The Conclusion 🛎 🍺

Trouble is brewing



Aging society, more requirement for funding and debt piles are calling for structural changes





To conclude

What is our outlook?

Inflation

- We do not think hyperinflation is coming, but a solid stable inflation rate of 2 -3% p.a. is very realistic
- Inflationary pressures that existed before pandemic have not gone away
- Commodities best hedge for inflation

Debt

- Massive piles of debt unlikely to reduce given challenges
- FED will think twice before hiking rates
- Low interest rate environment likely to remain

Structural changes

- Aging population will be a burden on economies
- Tax hikes are imminent
- Governments needs to increase income





Thank you for your attention!

Allerino o Guillo

