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## **Key Takeaways 1-10-22**

- SHORT TERM (< 3wks): REFLATION is the primary driver of dispersion within and across asset markets. This dynamic is consistent with several themes we have been discussing since early-December: 1) CACRI entering and exiting the Consensus Fear Zone; 2) our DISPERSION analysis signaling elevated risk of a #ConvergenceTrade; and 3) #Omicron crowding out more virulent variants and effectively ending the pandemic phase of the COVID-19 crisis.
- MEDIUM TERM (1-2qtrs): Our #math suggests INFLATION and DEFLATION are the most probable Bottom-Up Macro Regimes for the US and Global economies over the next 3-6mos. While we could see a transitory bounce in global economic activity as a positive response to #Omicron, that same #math assigns a relatively low probability to sustaining either GOLDILOCKS or REFLATION over the medium term.
- **PORTFOLIO CONSTRUCTION:** We plan to tactically reduce our exposure to each regime not named "DEFLATION" over the next few months. The repeatable tools in our analytical toolkit that will help us time such exits include: CACRI entering and, more importantly, exiting the "Consensus Complacency Zone"; 2) the Conviction Score in associated with the nascent REFLATION regime breaching the upper quartile threshold an indicator of crowded positioning; and 3) our DISPERSION analysis and/or our Four Horsemen of Market Risk inflecting in a manner that indicates the emergence of "risk off" market conditions.

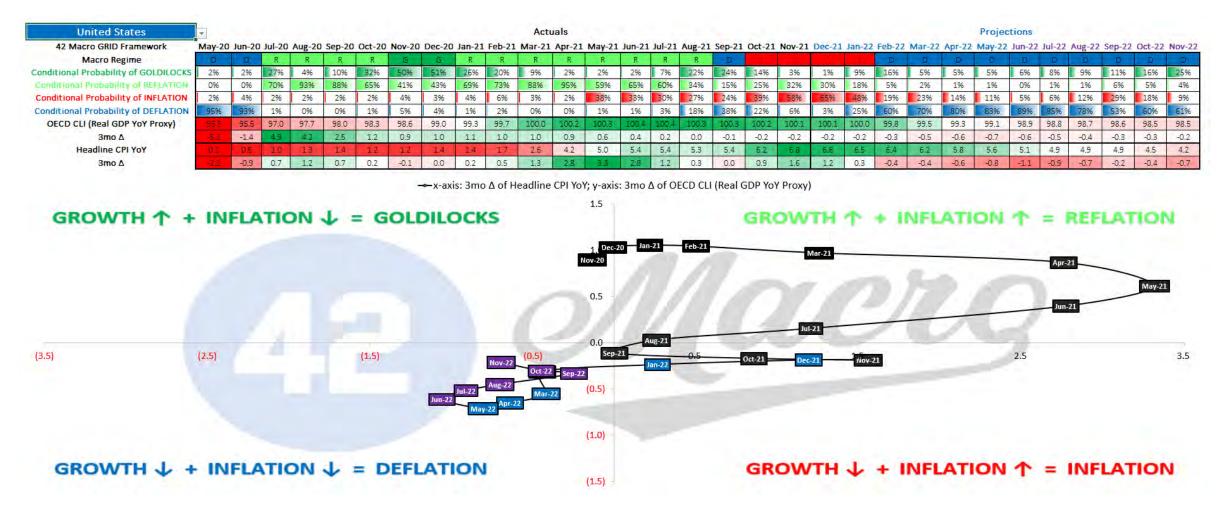


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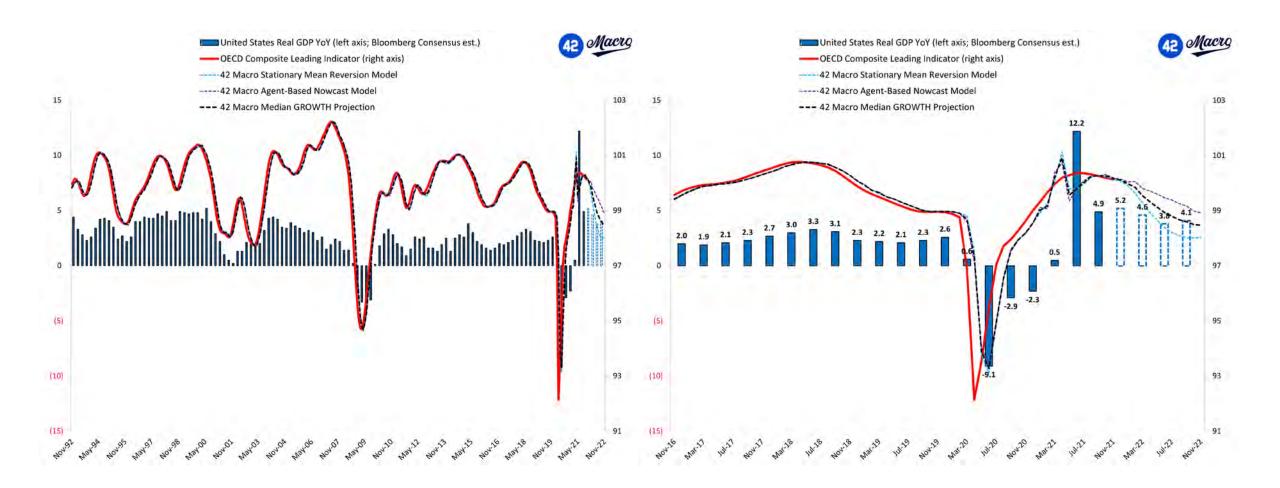
# Introducing The 42 Macro GRID Framework, Which We Use To Measure And Map Bottom-Up MACRO Regime Cycles





### **US GROWTH: Secular View**

### **US GROWTH: Cyclical View**





# **US GROWTH Agent-Based Nowcast Model**

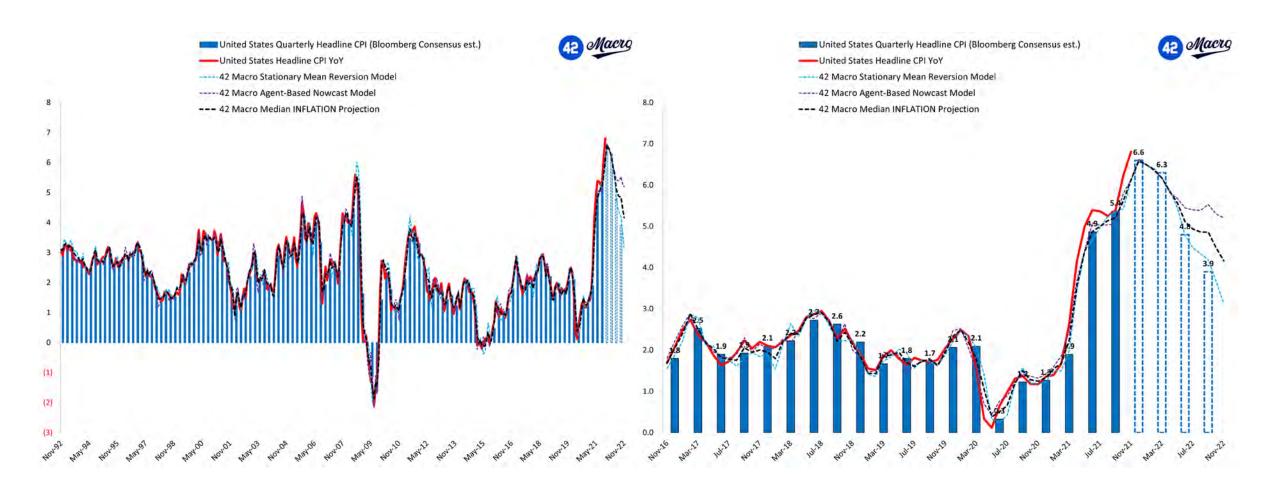
United States	<b>→ 1-19</b>	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	1 [
USA OECD Leading Indicators CLI Amplitude Adjusted SA	99.2	99.1	99.0	99.0	99.0	99.0	98.9	98.9	98.8	96.9	92,1	93.5	95.5	97.0	97.7	98.0	98.3	98.6	99.0	99.3	99.7	100.0	100,2	100,3	100.4	100.4	100.3	100.3	100.2	100,1	
US Industrial Production YOY SA (6%)	-0.9	-1.4	-1.4	-1.8	-2.4	-1.9	-2.2	-2.1	-1.4	-5.3	-17.7	-16.2	-11.0	-7.0	-6.6	-6.6	-4.8	-4.7	-3.3	-1.7	-4.9	1.8	17.9	16.4	10.2	6.7	5.4	4.7	5.3	5.3	
US Trade Balance of Exports YOY SA (4%)	-1.5	-0.2	-0.3	-1.9	-1.7	-0.3	1.0	-1.9	-2.5	-12.3	-28,6	-31.7	-24.6	-19.2	-17.2	-14.7	-13.0	-11.7	-9.1	-5.2	-7.0	9.3	38.3	43.4	32.6	24.3	22.3	16.1	22.5	21.1	
etail Sales Less Food Services Auto Dealers & Building Mat& Gas Station SA YoY (4%)	4.5	4.4	4.7	4.1	3.8	2.4	6.0	3.9	4.4	6.3	-7.1	1.8	7.2	8.5	8.5	10.5	10.1	9.3	6.0	14.1	10.2	16.3	31.7	18.3	13.5	9.5	12.3	10.9	12.7	13.7	
ISM Manufacturing PMI SA (7%)	51.3	51.0	48.4	48.3	48.3	48.2	47.7	51.1	50.3	49.7	41.7	43.1	52.2	53.7	55.6	55.7	58.8	57.7	60.5	58.7	60.8	54.7	60.7	61.2	60.6	59.5	59.9	61.1	60.8	61.1	
ISM Services PMI (8%)	55.0	54.2	55.8	52.9	54.6	53.9	55.6	55.9	56.7	53.6	41.6	45.4	56.5	56.6	57.2	57.2	56.2	56.8	57.7	58.7	55.3	63.7	62.7	64.0	60.1	64.1	61.7	61.9	66.7	69.1	
SA Business Tendency Manufacturing Confidence Composite OECD Normalsd SA (4%)	-1.8	-2.0	-2.4	-2.5	-2.4	-2.2	-1.7	-1.4	-1.4	-1.7	-1.9	-1.4	-0.4	0.6	1.4	1.9	2.3	2.4	2.5	2.5	2.9	3.5	3.9	3,5	2.4	1.6	1.1	0.9	0.7	0.6	
USA Consumer Opinion Confidence Composite OECD Normalised SA (4%)	0.0	-0.2	-0.6	-0.6	-0.4	0.0	0.4	0.6	0.1	-1.2	-2.5	-3.1			-2.3	-2.0	-2.0	-2.3	-2.6	-2.6	-2.0	-0.5	0.9	1.4	1.2	0.7	-0.1	-0.8	-1.2	-1.5	L
US Employees on Nonfarm Payrolls Total SA (6%)	1.2	1.3	1.2	1.3	1.3	1.4	1.3	1.4	1.6	0.4	-13.5	-11.7	-8.5	-7.5	-6.6	-6.3	-5.9	-5.9	-6.2	-6.2	-6.1	-4.5	10.9	9.0	5.8	5.3	4.5	4.2	4.2	4.2	
US Employees on Nonfarm Payrolls Total Private SA (6%)	1,4	1.4	1.3	1,4	1.4	1.5	1.4	1.4	1.6	0.3	-15.3	-12.7	-9.1	-8.0	-7.3	-6.7	-6.1	-6.0	-6.3	-6.4	-6.1	-4.3	13.3	10.4	6.5	5.9	5.3	4.9	4.6	4.5	
JS Avg Weekly Hours Nonfarm Total Private Production and Nonsupervisory SA (0%)	-0.6	-0.5	-0.6	-0.3	-0.3	-0.6	-0.6	-0.5	0.3	-0.9	-0.6	1.5	0.9	1.2	1.2	1.5	1.8	2.1	2.1	2.4	0.9	3.0	2.4	0.6	0.6	0.6	0.3	0.3	-0.3	-0.3	A
Average Weekly Earnings Total (1%)	4.7	1.5	3.4	3.4	3.1	3.3	2.6	3.0	4.8	4.1	7.5	8.4	4.8	6.1	7.7	3.9	6.7	8.3	5.9	7.8	4.8	5.9	3.6	4.4	4.5	5.4	4.9	5.9	5.8	4.5	A
US Job Openings By Industry Total SA (2%)	-1.5	-1.0	-0.7	-3.4	0.6	-8.7	-9.5	-4.3	-0.7	-21.3	-36.2	-25.2	-14.7	-5.9	-9.8	-6.9	-6.4	-2.2	0.3	-0.8	7.3	43.7	98.6	74.1	66.6	65.2	64.8	60.4	61.4	56.1	
ureau of Labor Statistics Employment Diffusion Nonfarm Payrolls +1 Month SA (3%)	58.6	55.3	54.7	58.0	55.3	67.1	55.3	58.2	55.1	12.5	4.5	63.2	76.1	61.9	69.1	70.6	70.4	64.4	61.7	50.4	61.7	73.0	60.9	64.0	69.8	70.0	71.2	65.0	71.6	69.6	
US Personal Consumption Expenditures Chained 2012 Dollars SAAR (5%)	2.2	2.2	2.2	2,4	2.0	1.9	2.8	2.8	2.8	-4.7	-16.4	-9.6	-4.6	-3.5	-3.1	-1.9	-1.6	-2.4	-3.3	-0.8	-2.2	9.6	25.4	15.1	9.3	7.5	7.5	6.4	6.7	7.4	
Real Personal Consumption Expenditures of Goods (3%)	3.8	3.7	3.8	3.9	3.4	2.5	5.2	4.1	4.2	2.0	-10.8	1.3	6.7	8.0	7.3	9.5	9.6	7.9	5.5	12.8	9.1	21.1	37.3	17.1	11.2	6.7	8.1	6.1	7.4	7.9	
US Personal Consumption Expenditures Services Chained 2012 Dollars SAAR (6%)	1.5	1.5	1.5	1.7	1.4	1.7	1.8	2.2	2.1	-7.6	-18.9	-14.4	-9.5	-8.5	-7.7	-7.0	-6.6	-7.1	-7.2	-6.8	-7.2	4.1	19.7	14.0	8.4	7.9	7.2	6.5	6.4	7.1	
US Disposable Personal Income Chained 2012 Dollars SA (1%)	1.9	1.6	1.8	2,1	2.0	2.3	0.8	1.8	2.2	0.8	17.0	11.3	9.3	9.8	5.3	5.6	5.0	3.2	3.7	13.4	3.2	28.8	-6.0	-4.1	-2.8	-2.6	1.0	-1.2	-1.0	0.0	
Adjusted Retail & Food Services Sales Total SA (3%)	3.3	3.3	4.0	3.6	3.0	3.1	5.5	4.8	4.6	-5.9	-20.0	-5.8	2.0	2.7	3.1	5.9	5.3	3.5	2.3	9.4	6.5	29.7	53.4	28.0	18.9	15.3	15.7	14.2	16.3	18.2	
MBA US Purchase Index SA (1%)	9.7	6.3	4.8	9.6	9.9	7.8	16.7	6.6	7.6	-23.5	-19.8	16.9	14.6	18.9	27.6	21.6	21.8	27.3	24.7	17.9	1.5	40.4	32.0	-11.7	-17.3	-17.7	-16.3	-12.6	-10.0	-9.4	I
US Auto Sales Total Annualized SAAR (1%)	-0.5	0.8	2.2	-1.2	-5.4	-1.8	-4.6	1.4	1.6	-35.0	-47.7	-29.4	-24.6	-13.7	-10.5	-4.9	-2.1	-9.0	-2.6	-1.2	-6.9	56.1	115.7	39.1	17.7	1.6	-14.0	-25.5	-19.9	-17.3	l
US Capacity Utilization % of Total Capacity SA (6%)	-2.5	-3.0	-3.0	-3.3	-3.9	-3.2	-3.4	-3.2	-2.3	-6.0	-18.2	-16.6	-11.3	-7.2	-6.7	-6.6	-4.7	-4.6	-3.2	-1.5	-4.7	1.9	17.9	16.4	10.2	6.6	5.3	4.4	5.0	4.9	
US Manufacturers New Orders Total SA (4%)	-2.3	0.6	-3.5	-3.1	-0.9	-0.6	-0.7	-5.4	-4.3	-18.6	-26.5	-20.5	-13.8	-10.0	-7.7	-6.7	-6.8	-2.1	-2.0	3.2	4.0	21.2	34.7	31.2	22.4	16.3	15.8	15.1	15.5	15.5	
Capital Goods New Orders Nondefense Excluding Aircraft SA (4%)	-1.6	-4.3	-1.8	-1.8	-2.2	1.4	0.2	-0.1	-0.5	-3.5	-8.9	-61	-2.8	0.6	3.4	5.3	6.1	8.2	10.1	10.1	11.2	14.4	25.8	23.6	19.0	15.9	13.7	13.9	13.2	11.7	
US Durable Goods New Orders Industries SA (3%)	1.4	6.8	-1.0	0.1	4.7	2.1	-0.8	-9.3	-5.1	-28.5	-36.0	-25.4	-18.6	-12.4	-9.2	-7.6	-8.7	-0.1	-1.2	6.2	6.7	36.3	53.0	42.8	29.3	18.3	17.6	15.3	14.4	14.8	
US Trade Balance of Imports SA (5%)	0.9	0.0	0.0	-2.8	-5.0	-4.1	-3.1	-2.9	-4.5	-11.0	-22.0	-24.4	-19.7	-11.4	-8.8	-6.4	-2.6	0.9	0.5	3.8	4.9	18.1	34.8	38.1	85.8	22.1	20.3	19.8	18.1	20.6	ı
Association of American Railroads Total Traffic US Freight Carloads (1%)	-5.5	-4.4	-4.6	-7.4	-8.8	-23.0	-9.2	-2.3	-8.5	-11.9	-22.4	-17.4	-13.8	-8.7	-6.2	-2.1	1.4	3.6	8.5	2.1	1.7	16.1	30.6	34.0	12.4	3.0	-0.7	-1.3	-2.0	-4.8	ĺ
Census Bureau US Construction Spending Total SA (2%)	3.0	5.5	6.3	8.1	9.7	12.3	13.5	13.9	13.6	12.8	6.5	5.0	3.6	2.2	2.5	2.2	2.9	2.5	3.1	4.3	2.1	2.8	7.0	8.8	10.1	9.8	9.7	10.5	10.0	9.3	





### **US INFLATION: Secular View**

### **US INFLATION: Cyclical View**





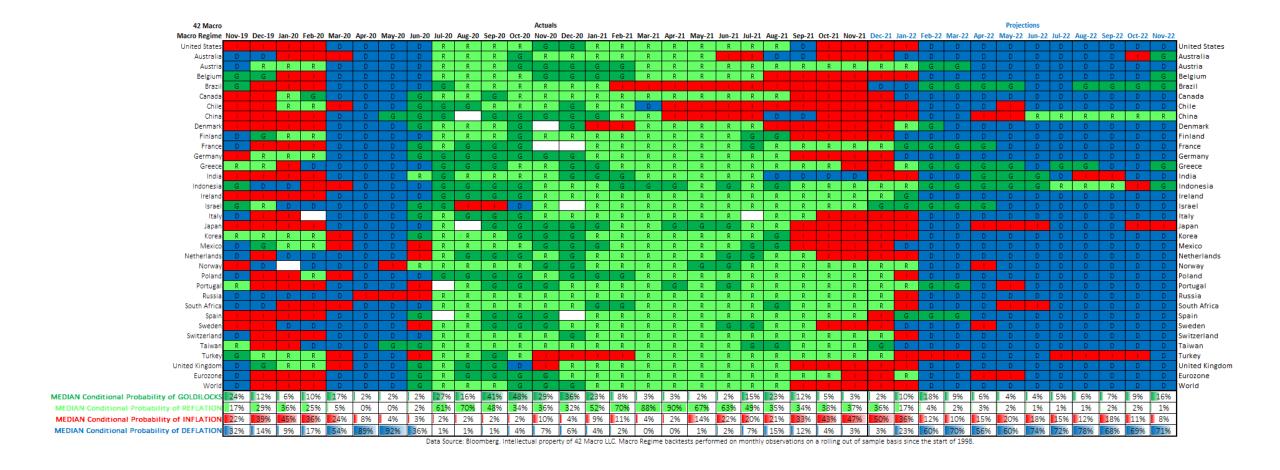
## **US INFLATION Agent-Based Nowcast Model**

United States	- 1-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-2
US CPI Urban Consumers NSA YoY	1.6	1.8	1.7	1.7	1.8	2.1	2.3	2.5	2.3	1.5	0,3	0.1	0.6	1.0	1.3	1.4	1.2	1.2	1.4	1.4	1.7	2.6	4.2	5.0	5,4	5.4	5,3	5.4	6.2	6.8
US CPI Urban Consumers Less Food & Energy YoY NSA (7%)	2.1	2.2	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.1	1.4	1.2	1,2	1.6	1.7	1.7	1.6	1.6	1.6	1.4	1.3	1.6	3.0	3.8	4.5	4.3	4.0	4.0	4.5	4.9
US PPI Final Demand YoY NSA (8%)	1.6	1.6	1.9	1.5	1.0	1.0	1.4	2.0	1.1	0.3	-1.5	-1.1	-0.7	-0.3	-0.3	0.3	0.6	0.8	8.0	1.6	3.0	4.1	6.5	7.0	7.6	8.0	8.4	8.8	8.8	9.6
Commodity Research Bureau BLS/US Spot All Commodities (5%)	-7.1	-6.9	-5.9	-6.6	-6.4	-7.1	-1.9	-2.1	-4.3	-13:2	-16.8	-11.7	-11.7	-6.3	2.0	4.7	5.2	10.9	10.5	13.4	23.1	36.9	50.6	49,4	54.4	48.8	41.8	36.4	39.5	31.7
Commodity Research Bureau BLS/US Spot Foodstuff (4%)	-0.3	1.7	-0.3	-3.4	-2.1	-2.7	4.4	1.6	0.3	-10.0	-17.4	-13,0	-16.5	-11.6	2.4	5.2	2.6	10.6	7.0	9.5	23.4	39.6	66.0	57.3	68.3	58.6	48.5	38.4	41.1	31.1
Commodity Research Bureau BLS/US Spot Raw Industrials (5%)	-11.6	-12.5	-9.6	-8.7	-9.3	-10.1	-6.0	-4.6	-7.3	-15.1	-15.5	-10.8	-8.2	-2.5	1.6	4.4	7.0	11.1	13.0	16.2	22.9	35.0	40.8	44.2	45.5	42.5	37.3	35.0	38.3	32.1
US CPI Urban Consumers Food NSA (5%)	1.9	1.8	1.7	1.8	2.1	2.0	1.8	1.8	1.8	1.9	3.5	4.0	4.5	4.1	4.1	3.9	3.9	3.7	3.9	3.8	3.6	3.5	2.4	2.2	2.4	3.4	3.7	4.6	5.3	6.1
US CPI Urban Consumers Energy NSA (9%)	-3.4	-2.0	-4.4	-4.8	-4.2	-0.6	3.4	6.2	2.8	-5.7	-17.7	-18.9	-12.6	-11.2	-9.0	-7.7	-9.2	-9.4	-7.0	-3.6	2.4	13.2	25.1	28.5	24.5	23.8	25.0	24.8	30.0	33.3
US CPI Urban Consumers Commodities Less Food & Energy NSA (5%)	0.2	0.4	0.8	0.7	0.3	0.1	0.1	-0.3	0.0	-0.2	-0.9	-1,0	-11	-0.5	0.4	1.0	1.2	1.4	1.7	1.7	1.3	1.7	4.4	6.5	8.7	8.5	7.7	7.3	8.4	9.4
US CPI Household Furnishings & Supplies NSA (0%)	1.6	1.6	1.4	1.6	0.9	0.6	0.3	0.0	-0,2	-0.4	0.6	0.9	1.3	1.5	2.6	2.1	1.9	2.9	2.9	2.4	2.3	2.8	3.2	3.7	3.4	3.0	3.3	4.8	6.1	5.0
US CPI Urban Consumers Apparel NSA (5%)	-1.3	-0.5	1.0	-0.3	-2.3	-1.6	-1.2	-1.3	-0.9	-1.6	-5.7	-7.9	-7.3	-6.5	-5.9	-6.0	-5.5	-5.2	-3.9	-2.5	-3.6	-2.5	1.9	5.6	4.9	4.2	4.2	3.4	4.3	5.0
US CPI Transportation Commodities Less Motor Fuel NSA (3%)	0.9	0.8	1.0	1.1	0.7	-0.1	-0.1	-0.6	-0.2	-0.1	-0.5	-0.2	-11	0.1	2.0	4.5	5.3	5.1	5.0	4.6	4.2	4.5	9.2	13.3	20.3	19.8	17.2	14.9	16.5	19.2
US CPI Urban Consumers Medical Care Commodities NSA (1%)	-1.5	-0.4	0.1	-0.3	1.0	0.6	2.5	1.7	1.8	1.3	0.7	0.8	1.3	1.1	0.8	0.9	-0.8	-1.1	-2.5	-2.3	-2.5	-2.4	-1.7	-1.9	-2.2	-2.1	-2.5	-1.6	-0.4	0.2
US CPI Recreation Commodities NSA (2%)	-0.9	-1.4	-0.9	-0.2	0.7	0.8	-0.9	-1.1	-0.4	-1.1	-2.0	-2.1	-2.1	-1.3	-0.4	-0.8	-1.3	-1.0	-0.2	-0.2	0.3	0.8	2.9	3.5	3.2	3.2	3.3	3.5	4.0	3.9
US CPI Education & Communication Commodities NSA (0%)	-6.1	-4.1	-3.4	-4.7	-5.2	-4.2	-6.0	-6.4	-5.2	-4.7	-3.8	-3.5	-3.0	-4.3	-4.8	-6.0	-5.0	-4.3	-2.5	-1.9	-2.7	-4.9	-2.2	-1.4	-1.2	-0.2	-0.5	2.6	2.5	0.9
US CPI Urban Consumers Alcoholic Beverages NSA (2%)	1.5	1.9	2.0	1.3	1.0	0.5	0.5	0.8	0.9	1.4	1.9	2.2	2.2	1.5	1.7	1.8	2.3	3.0	2.8	2.4	2.0	2.0	1.9	1.6	1.9	2.4	2.6	2.8	2.2	1.9
US CPI Urban Consumers Services Less Energy Services NSA (8%)	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.1	3.1	2.8	2.2	2.0	1.9	2.3	2.2	1.9	1.7	1.7	1.6	1.3	1.3	1.6	2.5	2.9	3.1	2.9	2.7	2.9	3.2	3.4
US CPI Urban Consumers Shelter NSA (4%)	3.5	3.5	3.4	3.5	3.3	3.3	3.2	3.3	3.3	3.0	2.6	2.5	2.4	2.3	2.3	2.0	2.0	1.9	1.8	1.6	1.5	1.7	2.1	2.2	2.6	2.8	2.8	3.2	3.5	3.8
US CPI Urban Consumers Water and Sewer and Trash Collection Services NSA (0%)	3.3	3.3	3.0	3.1	3.3	2.3	2,2	3.0	3.2	3.2	3.0	2.9	2.9	3.0	3.4	3.4	3.3	3.3	3.6	3.6	3.6	3.5	3.6	3.4	3.6	3.7	3.5	3.7	3.7	3.5
PI All Urban Consumers Household Operations Not Seasonally Adjusted 1997=100 (0%)	5.2	5.4	5.4	5.2	5.5	5.4	3.5	3.2	4.3	4.5	3.9	4.5	1.8	1.5	2.1	2.7	2.7	2.2	4.1	4.7	4.3	4.3	4.9	8.3	7.2	7.0	7.3	6.6	6.9	8.4
US CPI Urban Consumers Medical Care Services NSA (1%)	2.8	3.3	4.3	4.4	5.1	5.1	5.1	5.1	5.3	5.5	5.8	5.9	6.0	5.9	5.3	4.9	3.7	3.2	2.8	2.9	3.0	2.7	2.2	1.5	1.0	0.8	1.0	0.9	1.7	2.1
US CPI Urban Consumers Transportation Services NSA (7%)	0.9	0.7	0.9	0.8	0.8	0.8	0.6	0.7	1.2	-0.7	-5.5	-8.7	-7.0	-3.7	-4.0	-5.1	-5.1	-3.4	-3.5	-4.1	-4.4	-1.6	5.6	11.2	10.4	6.4	4.6	4.4	4.5	3.9
US CPI Recreation Services NSA (0%)	1.7	1.7	2.2	1.6	2.3	2.4	2.7	2.6	2.3	2.4	2.4	4.3	3.4	2.1	2.2	2.7	2.6	2.6	1.6	0.3	1.1	1.2	1.8	0.6	1.9	3.7	3.5	3.5	3.8	2.8
US CPI Education & Communication Services NSA (0%)	1.2	1.0	1.0	0.9	1.1	1.9	2.0	2.2	2.1	2.1	2.1	2.0	1.8	2.9	2.9	2.8	2.7	2.4	2.3	2.0	2.1	2.0	2.0	2.2	2.4	1.2	1.3	1.7	1.7	1.7
US Personal Consumption Expenditures Chain Type Price Index SA (10%)	1.5	1.5	1.5	1.4	1.4	1.4	1.7	1.9	1.9	1.3	0.4	.0.5	0.9	1.0	1.3	1.4	1.2	1.1	1.3	1.4	1.6	2.5	3.6	4.0	4.0	4.2	4.2	4.4	5.1	5.7
US Personal Consumption Expenditures Ex Food & Energy Deflator SA (8%)	1.7	1.7	1.9	1.7	1.7	1.6	1.6	1.8	1.9	1.7	0.9	1.0	1.1	1.3	1.5	1.6	1.4	1.4	1.5	1.5	1.5	2.0	3.1	3.5	3.6	3.6	3.6	3.7	4.2	4.7
ISM Manufacturing Report on Business Prices Index NSA (2%)	47.9	45.1	46.0	49.7	45.5	46.7	51.7	53.3	45.9	37.4	85.8	40.8	51.3	53.2			65.5	65.4	77.6	82.1	86.0	85.6	89.6	88.0	92.1	85.7	79.4	81.2	85.7	82.4
ISM Services PMI Report on Business Prices SA (0%)	58.6	1712	57.8	58.5	56.3	56.8	59.1	55.8	52.3	50.9	56.1		The second	57.6	CONT.	58.0	62.7	2.45	64.4		71.8	74.0	76.8	80.6	79.5	87.3	75.4	77.5	82.9	B2.3

Jata Source: Bloomberg, Intellectual Property of 42 Macro LLC. Nowcast reature weights are dynamically retrained monthly according to the relative strength of the first difference regressions between the independent and the dependent variables.



## The GRIDs Are Global





## Why GRID Works

- "I knew which shifts in the environment caused asset classes to move around, and I knew that those relationships had remained essentially the same for hundreds of years. There were only two big forces to worry about: growth and inflation. Each could be rising or falling, so I saw that by finding four different investment strategies each one of which would do well in a particular environment (rising growth with rising inflation, rising growth with falling inflation, and so on) I could construct an asset allocation mix that was balanced to do well over time while being protected against unacceptable losses." –Ray Dalio, Principles pg. 70
- "Subjective confidence in a judgment is not a reasoned evaluation of the probability that this judgment is correct. Confidence is a feeling, which reflects the coherence of the information and the cognitive ease of processing it. It is wise to take admissions of uncertainty serious, but declarations of high confidence mainly tell you that an individual has constructed a coherent story in his mind, not necessarily that the story is true."
  - -Danny Kahneman, Thinking, Fast and Slow pg. 212
- "You cannot beat the market, says the standard market doctrine. Granted. But you can sidestep its worst punches."
  - -Benoit Mandelbrot, The (Mis)Behavior of Markets pg. 249

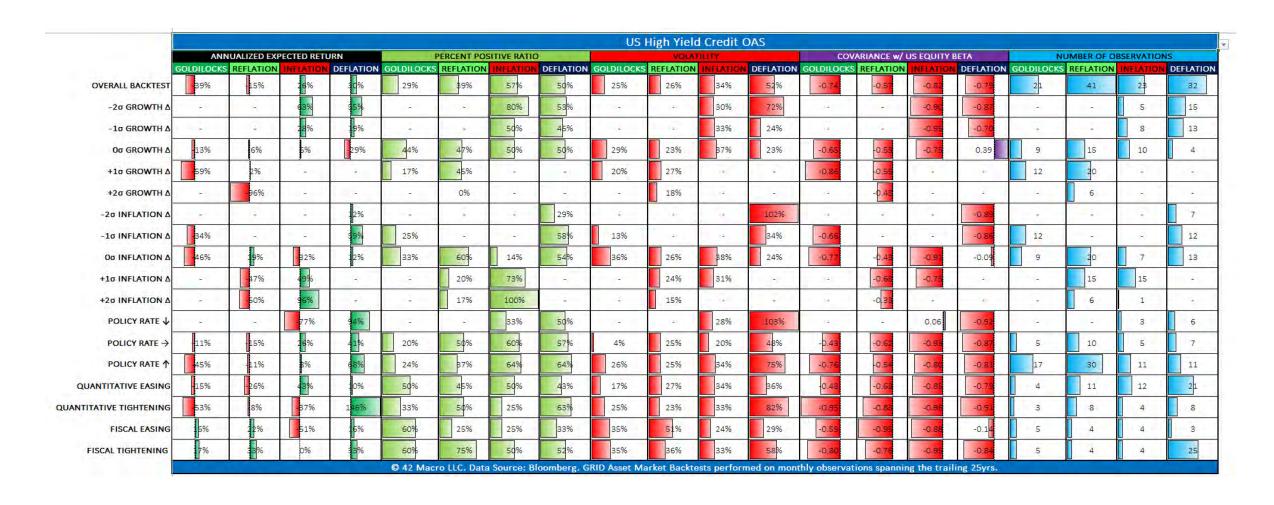


## **GRID** Asset Market Backtests: US Equities





## **GRID** Asset Market Backtests: High Yield OAS





# **GRID** Asset Market Backtests: Global Equities





## **GRID** Asset Market Backtests: Commodities





## **GRID** Asset Market Backtests: Fixed Income





# **GRID** Asset Market Backtests: 10yr Nominal Treasury Yield





## **GRID** Asset Market Backtests: Foreign Exchange





## **GRID** Asset Market Backtests: Crypto





## What Tends To Outperform/Underperform In Each GRID Regime?

#### **GOLDILOCKS**

#### **Top 5 Equity Style Factors**

High Beta Small Caps

Mega Cap Growth

Cyclicals

Mid Caps

#### **Bottom 5 Equity Style Factors**

Low Beta

Defensives

Size

Quality

Dividends

#### **Top 5 Equity Sectors**

Consumer Discretionary

**Financials** 

Technology

Materials

Industrials

#### **Bottom 5 Equity Sectors**

Utilities

Communication Services

Real Estate

Consumer Staples

Health Care

#### **Top 5 Fixed Income Sectors**

BDCs

Convertibles

**HY Credit** 

EM \$ Debt

Preferreds

#### **Bottom 5 Fixed Income Sectors**

Long Bond

0-5vr TIPS

Treasury Belly

MBS

5-10vr TIPS

#### REFLATION

#### **Top 5 Equity Style Factors**

Mega Cap Growth

High Beta

Cyclicals

Momentum Small Caps

#### **Bottom 5 Equity Style Factors**

Low Beta

Dividends

Defensives

Quality

Large Caps

#### **Top 5 Equity Sectors**

Technology

Industrials

Consumer Discretionary

**Financials** 

Energy

#### **Bottom 5 Equity Sectors**

Real Estate

Consumer Staples

Utilities

Communication Services

Health Care

#### **Top 5 Fixed Income Sectors**

BDCs

Convertibles

Preferreds

**HY Credit** 

EM Local Currency

#### **Bottom 5 Fixed Income Sectors**

Long Bond

Treasury Belly

IG Credit

MBS Short Rates

#### INFLATION

#### **Top 5 Equity Style Factors**

Low Beta

Mega Cap Growth

Quality

Dividends

Defensives

#### **Bottom 5 Equity Style Factors**

High Beta

Small Caps

Cyclicals

Value

#### Mid Caps **Top 5 Equity Sectors**

Utilities

Health Care

Real Estate

Consumer Staples

Communication Services

#### **Bottom 5 Equity Sectors**

Energy

Materials

Financials

Industrials

Consumer Discretionary

#### **Top 5 Fixed Income Sectors**

Long Bond EM \$ Debt

5-10vr TIPS

Treasury Belly

#### **IG Credit**

**Bottom 5 Fixed Income Sectors** 

**BDCs** 

Convertibles **EM Local Currency** 

Leveraged Loans

#### Preferreds

#### **DEFLATION**

#### Top 5 Equity Style Factors

Dividends

Low Beta

Quality

Defensives Growth

#### **Bottom 5 Equity Style Factors**

High Beta

Cyclicals

Value

Small Caps

Mid Caps

#### **Top 5 Equity Sectors**

Real Estate

Health Care

Consumer Staples

Utilities

Consumer Discretionary

#### **Bottom 5 Equity Sectors**

Financials

Industrials

Technology

Communication Services

Energy

#### **Top 5 Fixed Income Sectors**

Long Bond

Treasury Belly

IG Credit

MBS

#### Short Rates **Bottom 5 Fixed Income Sectors**

Preferreds

**BDCs** 

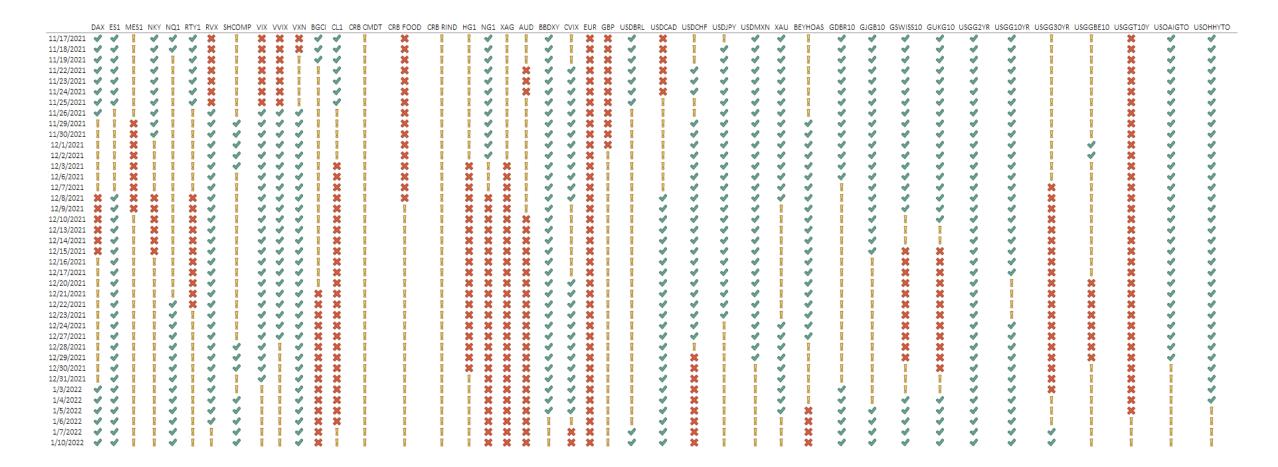
Leveraged Loans

**HY Credit** 

EM Local Currency



# Introducing The 42 Macro Global Macro Risk Matrix, Which We Use To Measure And Map Top-Down MARKET Regime Cycles (<u>Ticker Key</u>)





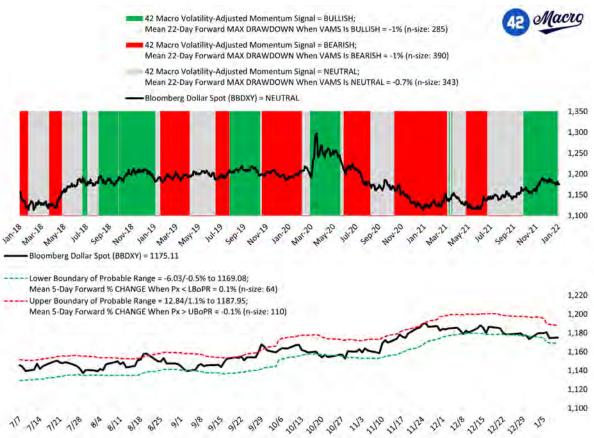
### **S&P 500 VAMS & Probable Range Model**

### **WTI VAMS & Probable Range Model**

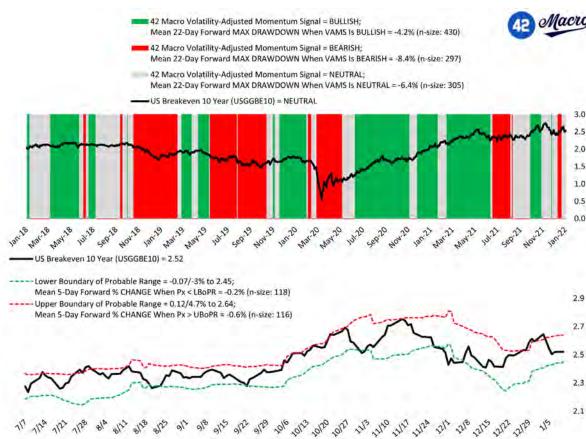




# Bloomberg US Dollar Index VAMS & Probable Range Model

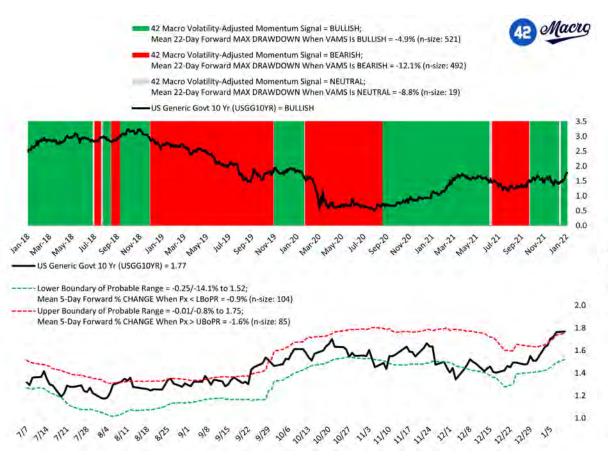


# 10yr TIPS Breakeven VAMS & Probable Range Model

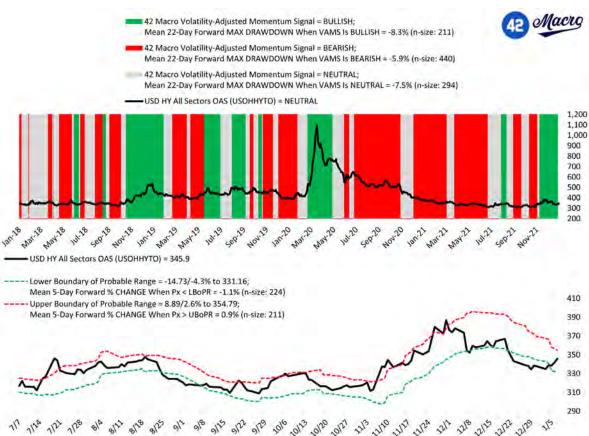




# 10yr Nominal Treasury Yield VAMS & Probable Range Model

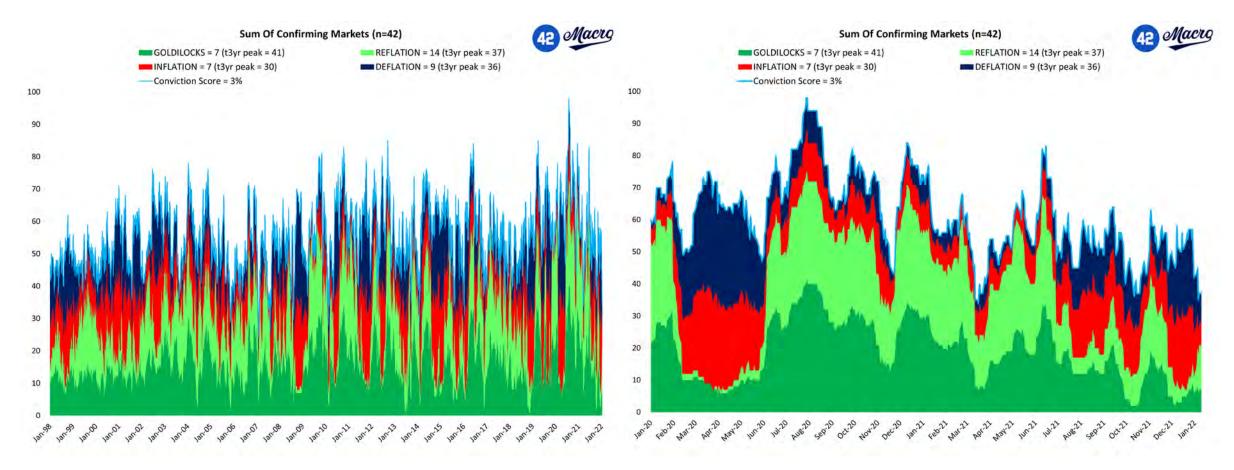


# USD High Yield OAS VAMS & Probable Range Model



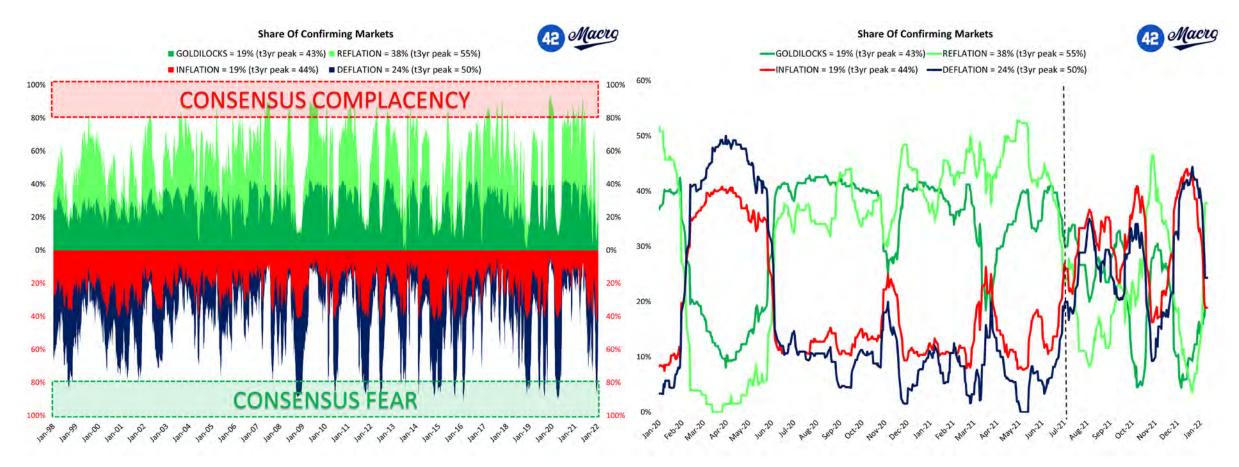


# **Global Macro Risk Matrix: Sum Of Confirming Markets**



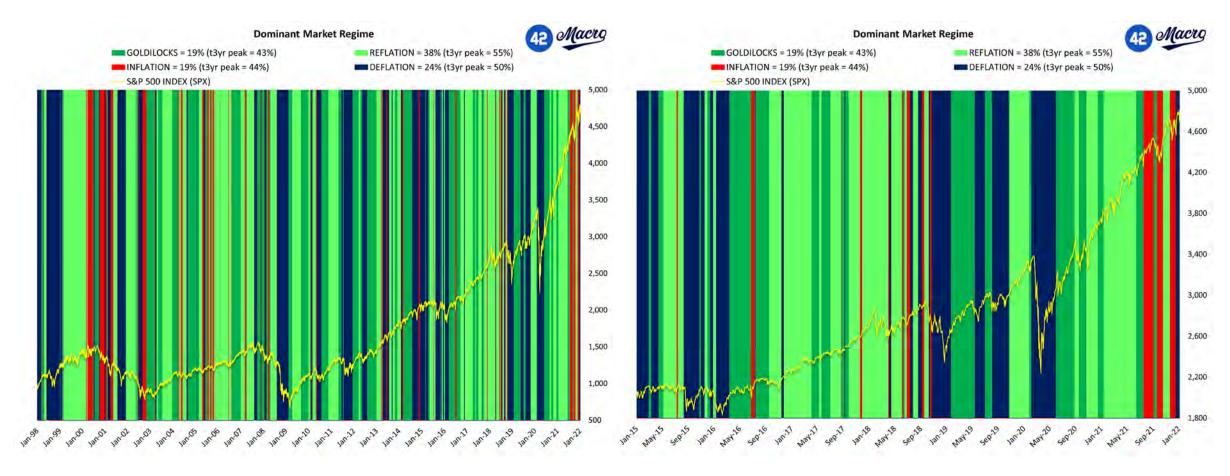


## Global Macro Risk Matrix: Share Of Confirming Markets



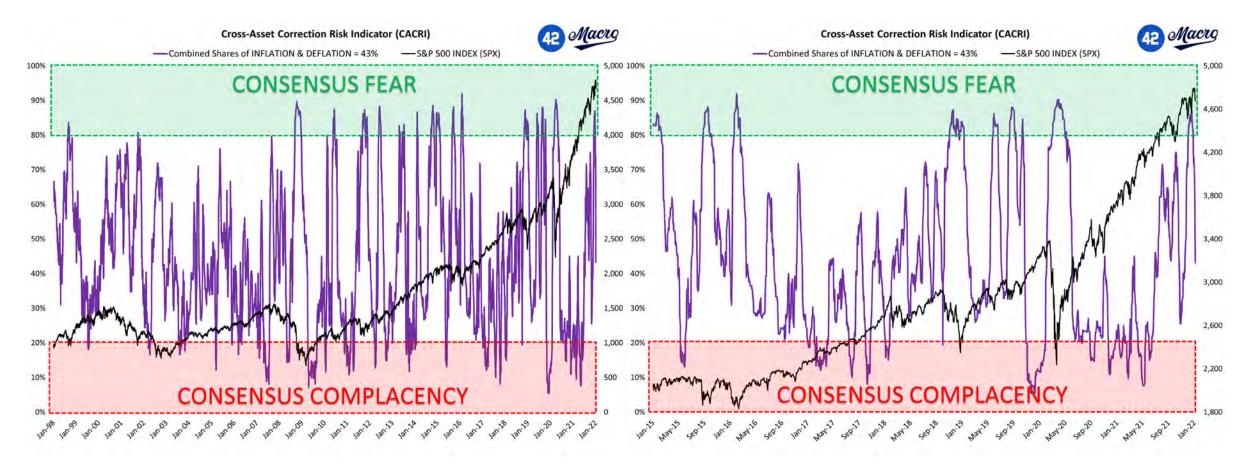


# Global Macro Risk Matrix: Dominant Market Regime



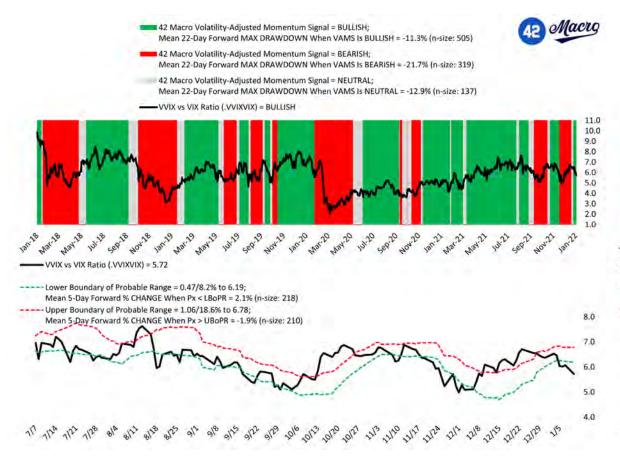


# **Cross-Asset Correction Risk Indicator (CACRI)**

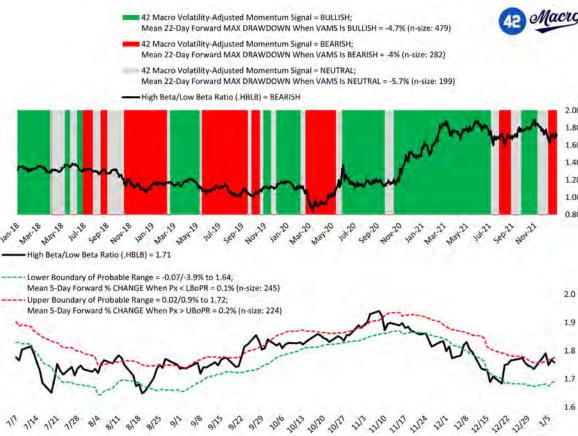




# The Four Horsemen Of Market Risk: VVIX/VIX Ratio

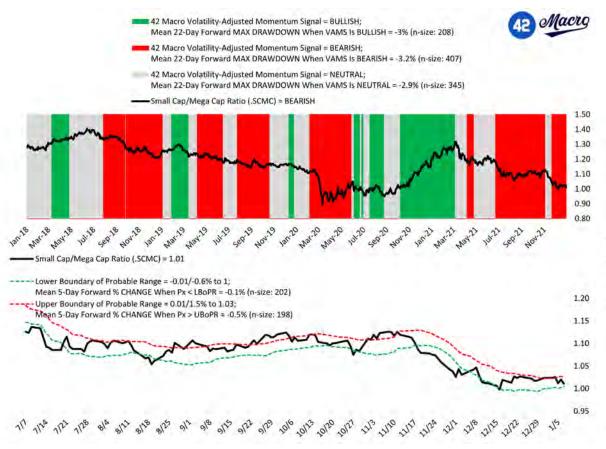


# The Four Horsemen Of Market Risk: High Beta/Low Beta Ratio

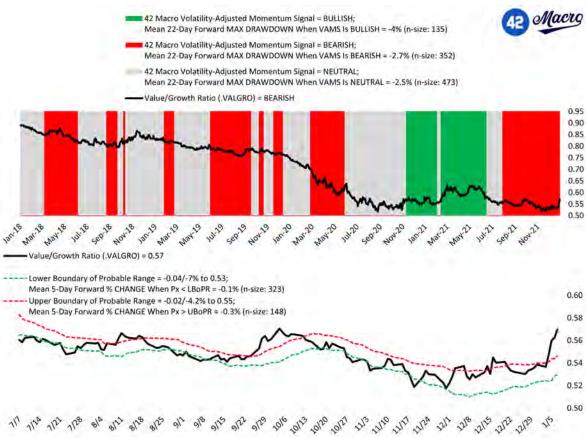




# The Four Horsemen Of Market Risk: Small Cap/Mega Cap Ratio



# The Four Horsemen Of Market Risk: Value/Growth Ratio





## Bottom-Up MACRO Regime Summary Table Top-Down MARKET Regime Summary Table

			Act	uals						E	stimate	S		
	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Next 3mo	Next 6m
United States	R	R	R	D	1	1	- 1	1	D	D	D	D		D
<b>Conditional Probability of GOLDILOCKS</b>	2%	7%	22%	24%	14%	3%	1%	9%	16%	5%	5%	5%	9%	7%
Conditional Probability of REFLATION	65%	60%	34%	15%	25%	32%	30%	18%	5%	2%	1%	1%	18%	9%
Conditional Probability of INFLATION	33%	30%	27%	24%	39%	58%	65%	48%	19%	23%	14%	11%	44%	30%
Conditional Probability of DEFLATION	1%	3%	18%	38%	22%	6%	3%	25%	60%	70%	80%	83%	29%	53%
China			D	D	1 - 1		[ ] J1		D	D			1	1
Conditional Probability of GOLDILOCKS	2%	3%	5%	14%	11%	2%	2%	3%	4%	2%	3%	2%	3%	3%
Conditional Probability of REFLATION	5%	4%	3%	9%	12%	28%	34%	3%	1%	2%	26%	48%	13%	19%
Conditional Probability of INFLATION	71%	53%	36%	30%	40%	66%	60%	54%	14%	46%	52%	48%	43%	47%
Conditional Probability of DEFLATION	23%	40%	56%	46%	37%	5%	4%	40%	81%	51%	8%	2%	42%	31%
Eurozone	R	R	R	R	R	1	1	R	D	D				D
<b>Conditional Probability of GOLDILOCKS</b>	5%	16%	6%	1%	1%	1%	1%	25%	44%	34%	6%	4%	23%	19%
Conditional Probability of REFLATION	47%	64%	63%	58%	51%	49%	42%	27%	4%	6%	7%	4%	24%	15%
Conditional Probability of INFLATION	44%	16%	28%	40%	47%	49%	56%	25%	4%	9%	46%	46%	28%	31%
Conditional Probability of DEFLATION	4%	4%	3%	1%	1%	1%	1%	23%	48%	51%	42%	46%	24%	35%
Japan	G	R	R		1	1	1	11	D	D			1	D
Conditional Probability of GOLDILOCKS	51%	10%	11%	14%	5%	7%	8%	10%	14%	10%	4%	4%	11%	8%
Conditional Probability of REFLATION	33%	54%	39%	22%	31%	30%	28%	20%	6%	2%	6%	5%	18%	11%
Conditional Probability of INFLATION	6%	30%	39%	39%	54%	52%	50%	46%	23%	16%	55%	50%	40%	40%
Conditional Probability of DEFLATION	10%	6%	11%	25%	9%	11%	14%	23%	56%	72%	35%	41%	31%	40%
World	R	R	R	11	1.0	1 1	1-1-	1	D	D	D	D	1.0	D
Conditional Probability of GOLDILOCKS	2%	17%	29%	15%	4%	5%	2%	4%	8%	5%	7%	4%	5%	5%
Conditional Probability of REFLATION	88%	48%	34%	23%	38%	29%	28%	6%	1%	2%	3%	1%	12%	7%
Conditional Probability of INFLATION	10%	25%	20%	38%	53%	57%	66%	52%	11%	30%	30%	21%	43%	35%
Conditional Probability of DEFLATION	0%	9%	17%	24%	6%	9%	4%	38%	80%	63%	60%	75%	41%	53%

%	2%	4%	8%	5%	7%	4%	5%	5%
9%	28%	6%	1%	2%	3%	1%	12%	7%

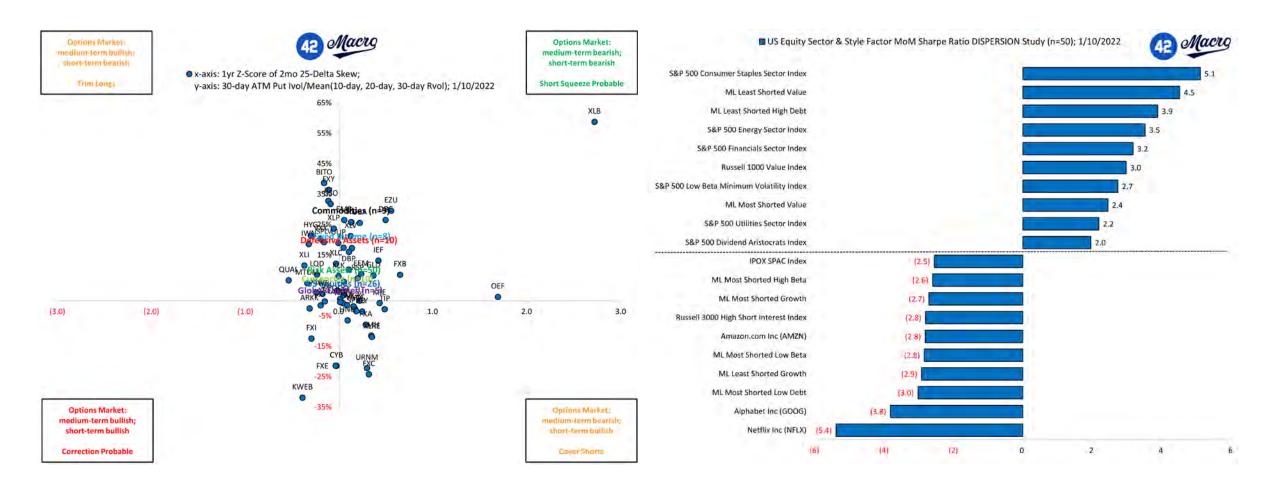
	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	1/10/2022
GOLDILOCKS Share of Confirming Markets	26%	24%	10%	28%	10%	14%	19%
<b>REFLATION Share of Confirming Markets</b>	11%	12%	23%	47%	18%	12%	38%
<b>INFLATION Share of Confirming Markets</b>	34%	35%	35%	16%	39%	33%	19%
<b>DEFLATION Share of Confirming Markets</b>	30%	29%	33%	9%	33%	40%	24%

Data Source: Bloomberg. Intellectual Property of 42 Macro LLC. BOLD = Dominant Market Regime. End of month values displayed.



### **CROWDING: Volatility Risk Premia vs. Skew**

### **DISPERSION: MoM Sharpe Ratios**





## **POSITIONING**

42 Macro CFTC CoT Crowding Analysis	Non- Commercial Net Length	3yr Z-Score	Mean 6mo Forward Performance <= -2σ	Mean 6mo Forward Performance >= +2σ	WoWΔ	1yr Z-Score	Mean 3wk Forward Performance <= -2σ	Mean 3wk Forward Performance >= +2σ	ΜοΜ Δ	1yr Z-Score	Mean 1mo Forward Performance <= -2σ	Mean 1mo Forward Performance >= +2σ	3mo ∆	3yr Z-Score	Mean 6mo Forward Performance <= -2σ	Mean 6mo Forward Performance >= +2σ
10yr	(196,835)	(0.8)	1.5%	-2.4%	(33,612)	(0.4)	-0.3%	0.3%	(11,154)	0.1	-0.3%	0.1%	(365,063)	(2.2)	0.5%	-0.4%
2yr	40,926	2.0	-0.1%	-0.1%	(45,860)	(0.8)	0.0%	0.0%	8,479	(0.1)	0.0%	-0.0%	82,710	0.4	0.0%	-0.1%
3mo Eurodollars	(960,972)	(1.7)	-0.1%	0.9%	(33,234)	(0.0)	0.0%	0.0%	(294,802)	(0.6)	0.0%	0.0%	(636,014)	(0.9)	-0.1%	-0.0%
5yr	(414,037)	(2.0)	0.0%		(132,625)	(1.8)	0.0%	0.1%	(48,972)	(0.3)	-0.0%	-0.0%	(105,003)	(0.5)	-0.1%	0.7%
AUD	(94,816)	(2.2)	-0.9%	-2.8%	(9,272)	(1.4)	-0.1%	-0.2%	(8,648)	(0.2)	2.1%	-0.1%	(4,893)	(0.1)	-1.0%	-1.0%
Bitcoin	(620)	1.1	100.5%	-14.5%	(61)	(0.2)	6.1%	-1.8%	314	0.1	8.1%	2.2%	895	1.4	103.0%	36.6%
BRL	(1,077)	0.7	-12.6%	-12.2%	4,210	0.9	-0.8%	-0.6%	4,547	0.4	-1.7%	-2.8%	1,213	0.1	-14.7%	-14.1%
CAD	(11,654)	(0.3)	1.4%	-2.9%	(182)	0.0	0.9%	0.4%	(580)	0.0	0.4%	0.4%	11,637	0.3	1.1%	-2.7%
CHF	(10,841)	(0.5)	0.5%	2.0%	887	0.4	-0.4%	-1.9%	2,311	0.6	1.2%	-1.6%	6,459	0.5	0.4%	0.6%
Cocoa	(1,353)	(0.9)	-4.6%	8.2%	3,096	0.4	2.3%	-3.1%	15,354	1.2	3.6%	-1.7%	(37,896)	(1.1)	6.1%	-0.8%
Coffee	56,586	1.0	-3.5%	-6.3%	(336)	(0.1)	2.2%	-0.5%	(6,504)	(0.6)	3.3%	-0.5%	(3,335)	(0.4)	-6.7%	3.3%
Copper	19,072	0.2	-0.0%	6.0%	5,251	0.9	-0.3%	-0.8%	12,023	1.1	-1.2%	-3.1%	4,261	0.1	1.0%	-0.2%
Corn	437,270	1.1	1.0%	26.8%	(10,517)	(0.4)	-4.0%	1.6%	37,191	0.7	1.6%	1.0%	126,244	0.4	13.7%	-18.5%
Cotton	102,895	1.3	4.6%	-0.9%	6,178	0.9	0.6%	-1.5%	7,076	0.5	-0.8%	-1.1%	(25,024)	(0.9)	12.5%	5.7%
Dow Jones	7,355	0.1	10.8%	10.3%	8,434	1.5	-0.4%	0.2%	11,864	1.2	0.5%	2.8%	13,551	1.0	7.8%	8.1%
DXY	39,057	1.5	-3.4%	1.0%	2,282	0.4	0.6%	0.3%	4,190	0.1	-0.3%	0.1%	7,051	0.5	1.3%	-2.8%
EUR	(4,758)	(0.3)	-1.7%	2.9%	4,903	0.6	-0.3%	-1.0%	6,576	0.7	1.0%	-0.9%	17,641	0.2	-4.6%	7.4%
GBP	(38,298)	(0.7)	0.3%	-4.8%	13,160	1.4	-0.8%	-1.7%	1,536	0.3	-1.1%	-0.9%	(18,297)	(0.5)	2.0%	3.5%
Gold	227,200	(0.1)	1.1%	-0.9%	(707)	0.0	1.7%	-0.1%	857	0.1	2.7%	-0.8%	37,375	0.3	5.3%	1.2%
JPY	(72,619)	(1.2)	-3.1%	8.7%	(13,896)	(1.0)	1.0%	-0.8%	(6,763)	0.1	0.0%	-1.3%	832	(0.0)	0.2%	5.6%
Lean Hogs	63,771	0.3	-14.1%	10.8%	(755)	(0.2)	0.0%	5.2%	8,623	0.5	-4.1%	8.5%	(24,946)	(0.9)	7.0%	-18.4%
Long Bond	(44,559)	0.8	-3.7%	-3.0%	(25,302)	(1.6)	0.7%	0.3%	(18,984)	(0.9)	-0.7%	1.6%	67,427	1.3	-5.5%	0.8%
MXN	(9,561)	(0.8)		-3.8%	(479)	(0.0)	-1.1%	0.3%	54,519	3.1	1.7%	-0.6%	25,818	0.5	7.2%	-0.8%
NASDAQ	21,331	0.5	9.8%	6.5%	6,932	0.8	1.1%	-1.0%	(5,186)	(0.3)	3.1%	0.3%	24,538	0.7	13.0%	8.6%
Natural Gas	(143,670)	(0.7)	-13.3%	-8.7%	4,119	0.6	2.7%	2.7%	(8,538)	0.1	7.4%	-1.6%	(10,619)	0.0	-1.8%	11.6%
NZD	(8,845)	(0.3)	0.8%	-2.8%	(424)	(0.0)	-0.6%	0.5%	(19,550)	(2.5)	-1.0%	-0.9%	(16,875)	(1.2)	2.6%	-1.5%
Platinum	7,405	(1.0)	-1.5%	-8.9%	2,191	0.8	-1.4%	0.4%	1,145	0.4	-1.2%	0.1%	1,329	0.1	0.2%	-4.3%
Russell 2000	(16,067)	(0.1)	3.6%	-8.1%	4,404	0.6	-8.4%	3.8%	11,201	0.9	5.3%	-5.0%	42,613	1.0	-0.9%	
S&P 400	7,559	0.1	20.9%	10.2%	1,402	1.4	1.3%	1.5%	1,202	0.9	4.8%	1.1%	396	0.2	10.4%	11.6%
S&P 500	123,419	1.4	12.2%	7.9%	11,874	0.3	1.3%	2.1%	(39,499)	(1.0)	3.7%	3.9%	54,272	0.4	12.6%	9.7%
Silver	30,781	(0.5)	-1.6%	-1.6%	4,280	0.8	-0.1%	1.2%	983	0.3	4.6%	-2.8%	16,045	0.4	-3.2%	-14.9%
Soybeans	131,774	0.6	-6.1%	17.6%	5,331	0.4	2.1%	0.7%	70,393	2.6	4.6%	-1.7%	81,619	0.9	-14.4%	-1.1%
Sugar	167,055	0.4	-4.6%	7.8%	(13,278)	(0.5)	-1.4%	1.9%	(13,667)	(0.2)	0.6%	-3.2%	(78,048)	(0.8)	5.3%	-8.0%
VIX	(60,454)	0.8			(13,259)	(1.1)		-1.1%	(13,051)	(0.7)		4.0%	9,134	0.2		
Wheat	(5,510)	(0.6)	-6.9%	-10.4%	(5,155)	(0.5)	-0.0%	0.8%	(15,042)	(0.7)	0.0%	-2.0%	(8,685)	(0.3)		-12.4%
WTI	395,468	(1.4)	53.7%	-1.7%	(5,493)	(0.2)	-1.5%	13.1%	(19,060)	(0.2)	0.6%	20.9%	(88,043)	(1.1)	-24.1%	0.9%

Data Source: Bloomberg. Intellectual Property of 42 Macro LLC. Trailing 10yr backtests performed on the underlying front-month futures contract for each exposure.



## **GRID** Asset Market Backtest Considerations: REFLATION

	Macro	GROWTH Δ	INFLATION A	POLICY	POLICY	POLICY	US-World	Blended Annualized	Dynamic Macro
	Regime	Z-Score	Z-Score	Rate	Balance Sheet	Fiscal Balance	Regime	Expected Return	Regime Ranking
	R	_ 2σ	0σ	Tightening	Tightening	Tightening	R-R	R	R
SPX Index	15.1%	23.7%	12.8%	10.0%	16.9%	28.4%	18.0%	16.7%	14
S&P 100 Index	15.5%	24.7%	12.7%	13.8%	17.1%	31.2%	18.7%	17.6%	15
NASDAQ 100 Stock Index	28.2%	34.1%	22.2%	45.0%	38.7%	56.8%	28.7%	32.9%	25
S&P Midcap 400 Index	18.1%	24.4%	15.0%	8.2%	19.4%	25.3%	20.1%	18.4%	16
Russell 2000 Index	16.2%	22.4%	13.9%	11.9%	25.1%	39.3%	19.4%	19.1%	17
MSCI USA Consumer Discretionary Index	17.2%	39.1%	18.1%	14.2%	19.3%	36.2%	18.5%	20.7%	19
MSCI USA Consumer Staples Index	4.2%	18.9%	1.3%	+12.6%	-1.5%	-3.2%	6.8%	2.9%	1
ASCI USA Communication Services Index	9.3%	13.4%	9.9%	-10.2%	12.0%	24.1%	12.5%	9.8%	7
MSCI USA Energy Index	12.7%	7.5%	10.9%	-7.8%	9.5%	45.6%	15.4%	13.1%	9
MSCI USA Financials Index	14.4%	26.1%	11.8%	2.0%	17.4%	15.4%	17.7%	14.7%	12
MSCI USA Health Care Index	10.6%	0.7%	5.6%	8.8%	17.8%	1.3%	14.4%	9.3%	6
MSCI USA Industrials Index	17.6%	27.8%	18.2%	7.5%	15.2%	35.8%	23.4%	19.5%	18
MSCI USA Information Technology Index	25.9%	37.8%	21.7%	36.7%	37.5%	54.3%	25.4%	30.8%	24
MSCI USA Materials Index	13.6%	20.8%	15.9%	-3.9%	8.1%	20.8%	20.0%	13.6%	11
MSCI US Real Estate Index	7.5%	-3.3%	-5.5%	2.6%	-2.5%	30.7%	13.8%	6.7%	2
MSCI USA Utilities Index	6.4%	9.8%	4.9%	2.7%	7.4%	14.7%	13.2%	7.6%	4
S&P 500 High Beta Index	22.2%	30.4%	18.2%	15.0%	30.6%	40.2%	24.7%	24.3%	23
S&P 500 Low Volatility Index	7.9%	16.7%	5.9%	-5.1%	6.6%	6.1%	13.4%	7.6%	3
Russell 3000 Defensive	12.0%	21.8%	9.2%	5.4%	11.9%	21.3%	15.8%	13.1%	10
Russell 3000 Dynamic	19.1%	27.0%	16.8%	16.0%	24.7%	37.7%	21.3%	21.5%	20
&P 500 Dividend Aristocrats Price Index	9.6%	13.3%	9.2%	-7.6%	8.9%	6.3%	12.9%	8.4%	5
MSCI USA Momentum USD PR	20.1%	22.7%	19.3%	24.8%	21.6%	40.6%	20.8%	22.6%	22
MSCI USA Quality Price USD Index	14.7%	23.1%	11.2%	11.6%	18.2%	23.3%	17.3%	16.1%	13
MSCI United States Growth Index	19.1%	31.2%	16.6%	22.2%	24.2%	37.6%	21.1%	22.3%	21
MSCI United States Value Index	11.6%	16.5%	10.4%	-1.6%	10.9%	21.5%	15.3%	11.9%	8



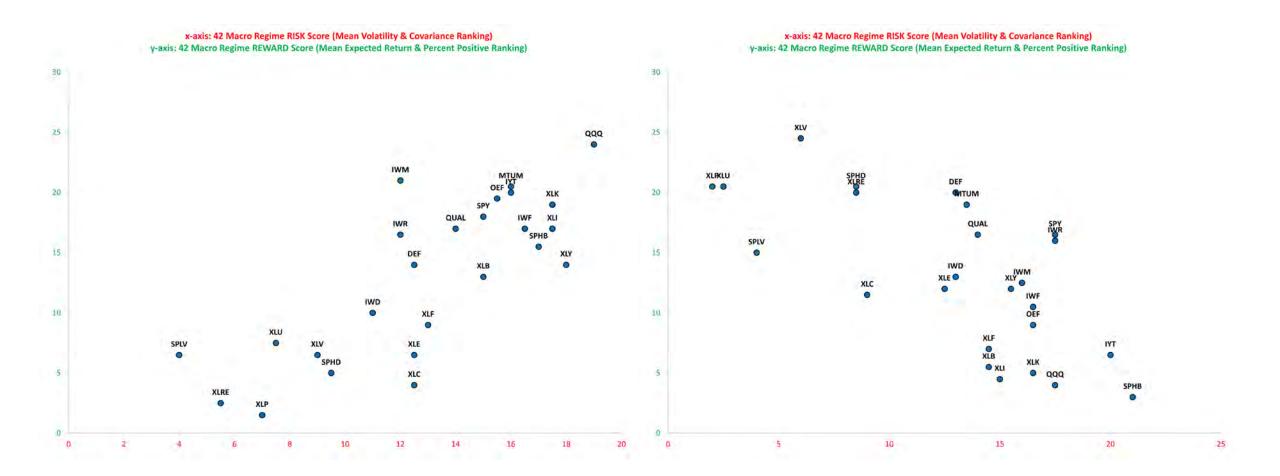
## **GRID** Asset Market Backtest Considerations: **DEFLATION**

	Macro	GROWTH Δ	INFLATION Δ	POLICY	POLICY	POLICY	US-World	Blended Annualized	Dynamic Macro
	Regime	Z-Score	Z-Score	Rate	Balance Sheet	Fiscal Balance	Regime	Expected Return	Regime Ranking
	D	√ (1σ)	(1 <del>o</del> )	Tightening	Tightening	Tightening	D-D	D	D
SPX Index	-2.7%	8.3%	0.3%	2.7%	-0.3%	-3.2%	-4.8%	-1.1%	11
S&P 100 Index	-3.6%	10.6%	-2.5%	0.8%	-0.5%	-11.9%	-5.8%	-2.6%	8
NASDAQ 100 Stock Index	-2.1%	14.6%	-10.6%	2.2%	-3.3%	-18.2%	-7.2%	-2.9%	6
S&P Midcap 400 Index	-0.4%	6.6%	4.5%	6.4%	0.1%	11.7%	-3.1%	2.0%	16
Russell 2000 Index	-4.7%	5.4%	6.0%	7.3%	-7.1%	20.6%	-8.8%	-0.4%	12
MSCI USA Consumer Discretionary Index	0.3%	13.8%	1.2%	-0.6%	0.6%	-8.2%	-3.6%	0.4%	13
MSCI USA Consumer Staples Index	6.4%	14.4%	13.0%	11.1%	11.6%	-0.9%	7.5%	7.9%	24
MSCI USA Communication Services Index	-4.1%	1.3%	0.1%	-3.5%	-3.1%	6.1%	-2.7%	-2.2%	9
MSCI USA Energy Index	1.2%	-6.4%	4.5%	10.0%	2.1%	31.7%	-2.0%	3.9%	20
MSCI USA Financials Index	-10.2%	2.0%	4.6%	-3.0%	-8.8%	5.8%	-13.0%	-6.1%	2
MSCI USA Health Care Index	8.3%	12.6%	11.4%	14.1%	3.8%	18.0%	11.9%	10.1%	25
MSCI USA Industrials Index	-6.7%	5.1%	-3.3%	0.0%	-0.1%	-7.7%	-11.4%	-4.8%	3
MSCI USA Information Technology Index	-2.0%	20.7%	-12.5%	4.1%	0.9%	-27.8%	-7.5%	-2.8%	7
MSCI USA Materials Index	-0.9%	-2.4%	7.1%	-10.5%	7.6%	-11.2%	-6.1%	-1.7%	10
MSCI US Real Estate Index	5.1%	15.6%	1.8%	10.6%	19.5%	-80.6%	15.7%	1.1%	15
MSCI USA Utilities Index	-0.8%	-0.4%	18.8%	14.8%	-8.7%	29.9%	0.1%	4.1%	21
S&P 500 High Beta Index	-10.8%	3.4%	-13.8%	-1.2%	-8.4%	-12.3%	-18.4%	-9.6%	1
S&P 500 Low Volatility Index	1.7%	8.2%	13.0%	6.6%	1.8%	12.8%	1,3%	4.5%	22
Russell 3000 Defensive	1.0%	10.4%	6.5%	8.0%	2.1%	0.2%	0.6%	2.8%	17
Russell 3000 Dynamic	-6.4%	5.8%	-4.9%	-0.1%	-3.4%	-0.6%	-11.2%	-4.4%	4
S&P 500 Dividend Aristocrats Price Index	3.7%	7.7%	12.0%	3.1%	5.6%	0.0%	3.3%	4.5%	23
MSCI USA Momentum USD PR	0.2%	15.1%	5.2%	10.4%	4.5%	4.4%	-1.9%	3.2%	19
MSCI USA Quality Price USD Index	2.5%	11.5%	1.5%	7.3%	4.7%	-4.7%	2.1%	3.1%	18
MSCI United States Growth Index	0.4%	15.2%	-4.0%	4.5%	5.3%	-11.3%	-2.1%	0.8%	14
MSCI United States Value Index	-6.0%	1.6%	3.1%	1.3%	-5.8%	3.3%	-7.8%	-3.3%	5



### **REFLATION: US Equities**

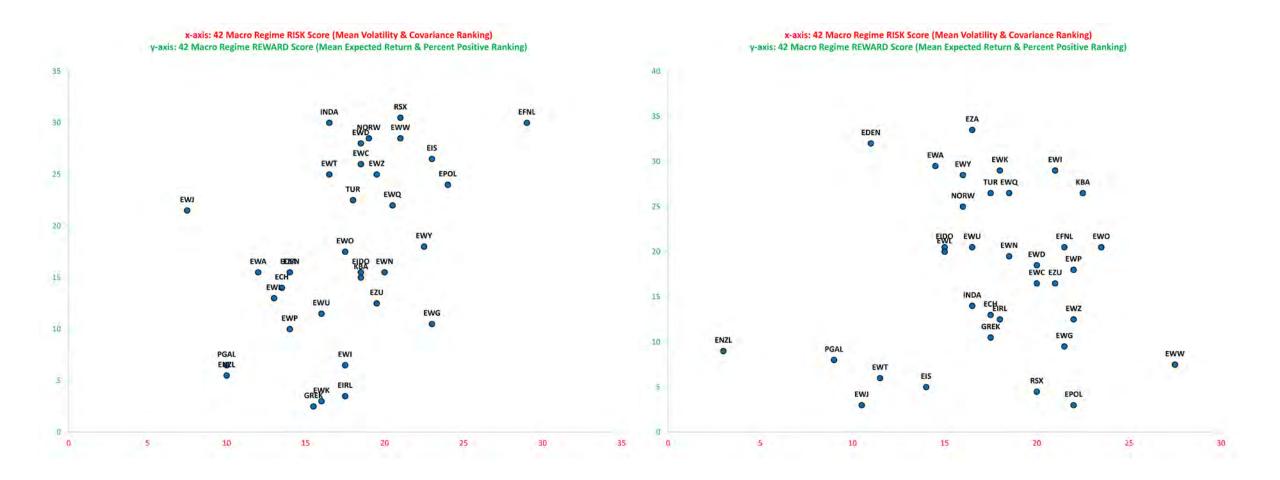
## **DEFLATION: US Equities**





### **REFLATION: Global Equities**

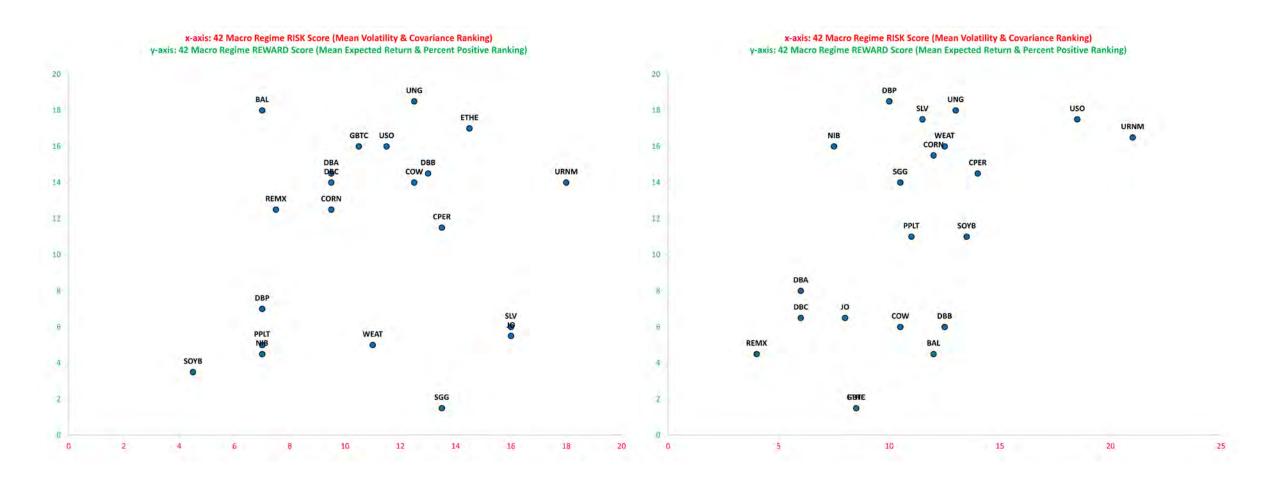
### **DEFLATION:** Global Equities





#### **REFLATION: Commodities**

#### **DEFLATION: Commodities**





#### **REFLATION: Fixed Income**

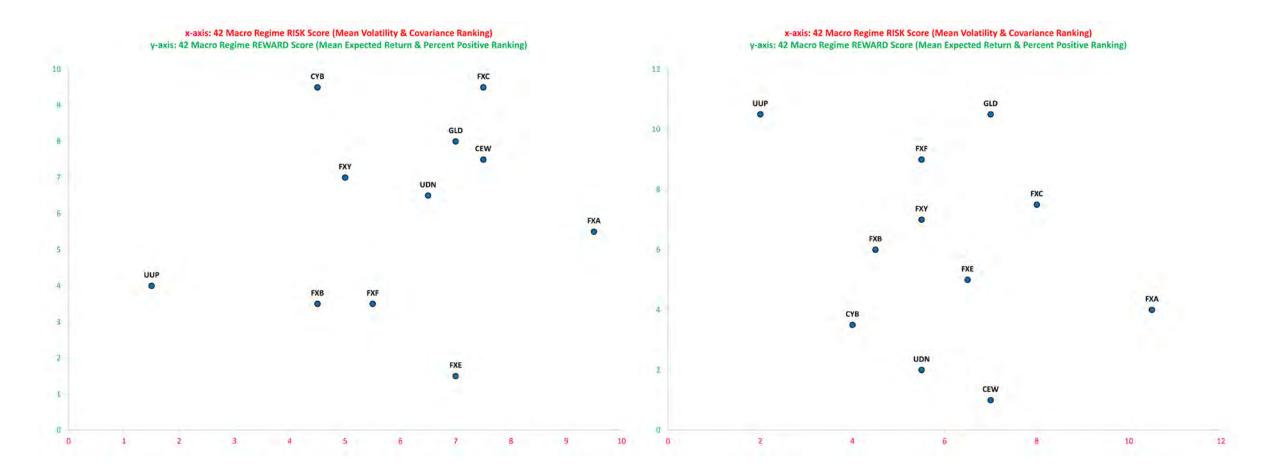
#### **DEFLATION: Fixed Income**





### **REFLATION:** Foreign Exchange

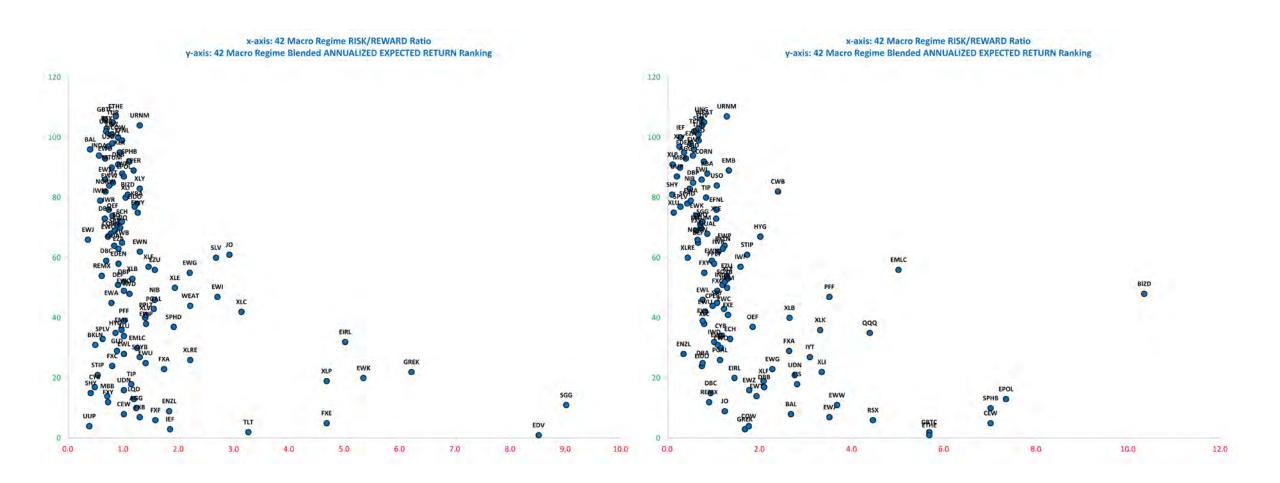
### **DEFLATION:** Foreign Exchange





#### **REFLATION: Global Macro**

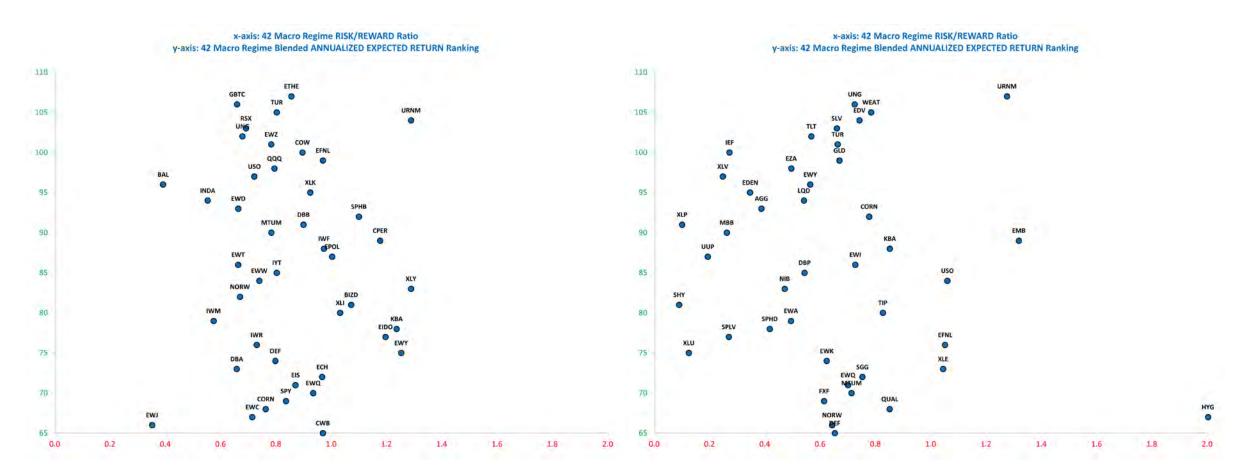
#### **DEFLATION: Global Macro**





# **REFLATION:** Portfolio Construction Candidates

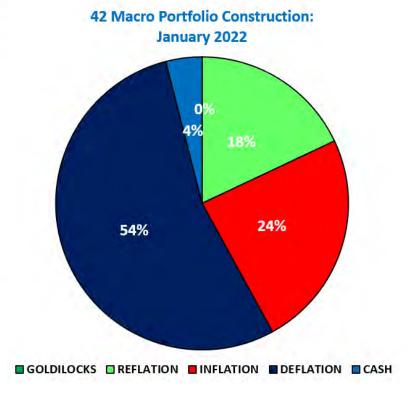
# **DEFLATION:** Portfolio Construction Candidates





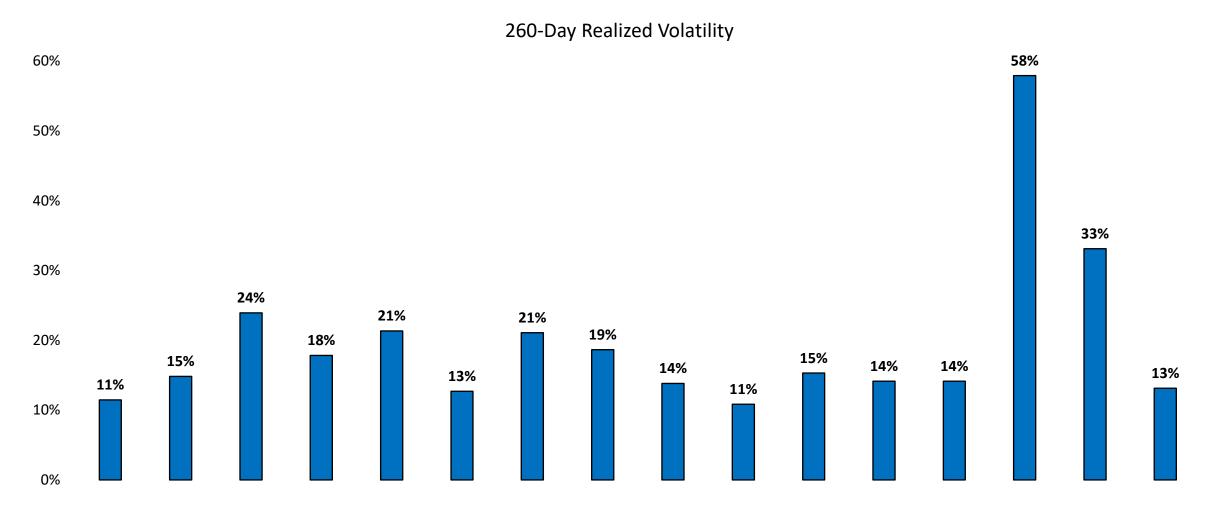
## **Our Current Portfolio Construction**

		GOLDILOCKS	REFLATION	INFLATION	DEFLATION	CASH
Jan-22	GRID REGIME ALLOCATIONS	0%	18%	24%	54%	4%
Ticker	Equity & Commodity Exposures	0%	18%	24%	33%	n/a
					9%	
			6%			
			3%			
				6%		
			3%			
					9%	
				3%		
				6%		
				9%		
					9%	
			3%			
			3%			
					6%	
Ticker	Fixed Income & FX Exposures	0%	0%	0%	21%	n/a
					6%	
					6%	
					9%	



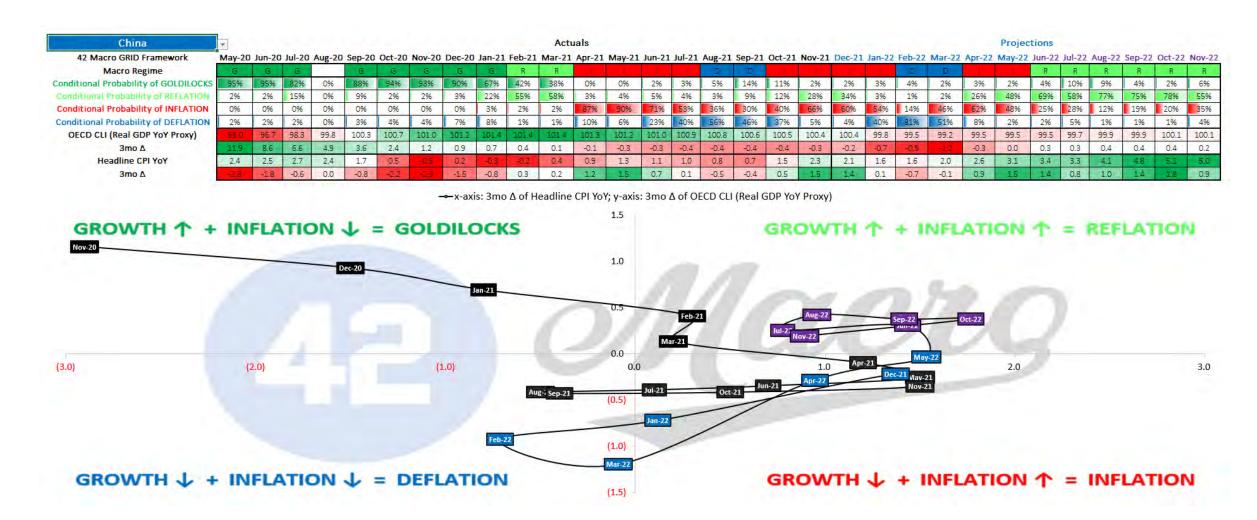


# **Volatility-Adjusted Position Sizing** Based On Relative 260-Day Rvol: 0<sup>th</sup> to 33<sup>rd</sup> Percentile = 9% Position; 34<sup>th</sup> to 67<sup>th</sup> Percentile = 6%; 68<sup>th</sup> to 100<sup>th</sup> Percentile = 3%





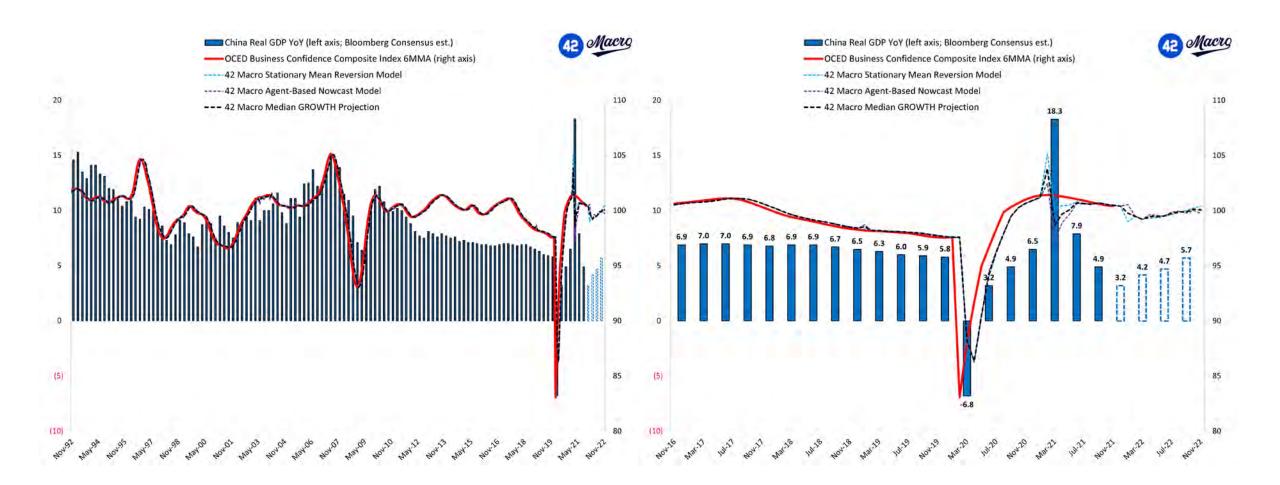
## China GRID Outlook: Growth Should Find A Bottom In Late-Q1





#### **China GROWTH: Secular View**

### **China GROWTH: Cyclical View**





## China GROWTH Agent-Based Nowcast Model

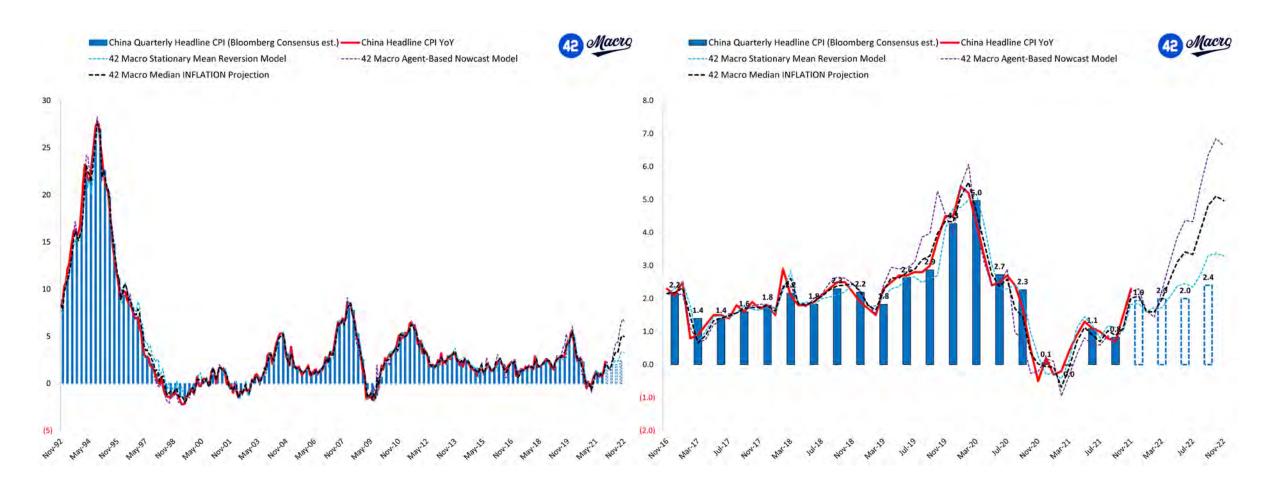
China	<b>→ 1-19</b>	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21 I	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21 De
China OECD Leading Indicators CLI Amplitude Adjusted SA	98.0	97.9	97.9	97.7	97.6	97.6	97.6	97.6	85.1	88.1	91.7	95.0	96.7	98.3	99.8	100.3	100.7	101.0	101.2	101.4	101.4	101,4	101.3	101.2	101.0	100.9	100.8	100.6	100.5	100.4
China Value Added of Industry YoY (4%)	6.3	4.8	4.4	5.8	4.7	6.2	6.9			-1.1	3.9	4.4	4.8	4.8	5.6	6.9	6.9	7.0	7.3			14.1	9.8	8.8	8.3	6.4	5.3	3.1	3.5	3.8
China Export Trade USD YoY (1%)	-1.5	3.4	-1.0	-3.2	-0.8	-1.3	7.9	-2.9	-40.6	-6.9	3.1	-3.5	0.2	6.8	9.1	9.4	10.9	20.6	18.1	24.6	154.6	30.5	32.2	27.8	32.1	19.3	25.6	28.1	27.1	22.0
China Retail Sales Value YoY (4%)	9.8	7.6	7.5	7.8	7.2	8.0	8.0		7	-15.8	-7.5	-2.8	-1.8	-1.1	0.5	3.3	4.3	5.0	4.6			34.2	17.7	12.4	12.1	8.5	2.5	4.4	4.9	3.9
China Manufacturing PMI SA (10%)	49.4	49.7	49.5	49.8	49.3	50.2	50.2	50.0	35.7	52.0	50.8	50.6	50.9	51.1	51.0	51.5	51.4	52.1	51.9	51.3	50.6	51.9	51.1	51.0	50.9	50.4	50.1	49.6	49.2	50.1 5
China Non-Manufacturing PMI SA (12%)	54.2	53.7	53.8	53.7	52.8	54.4	53.5	54.1	29.6	52.3	53.2	53.6	54.4	54.2	55.2	55.9	56.2	56.4	55.7	52.4	51.4	56.3	54.9	55.2	53.5	53.3	47.5	53.2	52.4	52.3 5.
China Leading Index (1%)	-3.8	-3.7	-3.4	-2.9	-2.7	-3.1	-3.7	-4.3	-4.2	-3.1	-1.1	1.1	3.0	4.1	4.7	5.0	5.8	7.1	8.5	9,4	9.0	7.1	4.0	0.6	-2.5	-4.9	-6.5	-7.7	-8.8	
China Coincident Index (1%)	-3.9	-3.6	-3.3	-3.1	-3.6	-5.3	-8.4	-11.7	-13.4	-12,7	-10.1	-6.7	-3.5	-1.3	0.2	2.1	5.5	11.7	20.8	30.4	35.8	34.3	27.4	18.8	11.3	6.0	2.4	-0.7	-4.2	
Bloomberg Economics China Credit Impulse (0%)	0.2	-0.6	-3.2	-0.9	2.2	7.7	7.6	1.1	2.0	9.0	19.2	22.7	23.0	29.0	35.7	38.2	41.4	39.3	35.9	31.2	34.5	11.0	-1.8	-11.8	-13.6	-17.7	-22.6	-26.4	-27.5	-26.4
Bloomberg Economics China Credit Impulse 12 Month Net Change (0%)	0.0	-0.1	-0.8	-0.2	0.5	1.7	1.6	0.3	0.5	2.2	4.4	5.4	5.6	6.7	8.2	8.9	9.4	9.1	8.3	7.2	8.0	2.9	-0.5	-3.4	-4.1	-5.3	-7.1	-8.5	-8.8	-8.5
China All-system Financing Aggregate YTD (0%)	27.7	19.7	15.3	14.5	13.4	14.2	13.7	8.0	5.0	29.1	38.3	45.1	42.8	41.9	44.5	43.7	44.4	41.2	36.0	2.7	16.6	-7.4	-14.6	-19.0	-14.7	-16.3	-16.4	-16.4	-15.0	-12.5
China Social Financing New Loan in Local Currency YTD (0%)	14.3	7.8	6.8	8.6	6.9	7.2	7.7	-2.1	-2.7	15.3	23.9	24.9	23.0	23.3	21.7	20.1	20.2	19.5	18.6	9.3	22.5	9.1	3.6	1.9	5.0	3.2	1.9	0.8	1.4	0.1
China Monthly Money Supply M0 YoY (0%)	4.3	4.5	4.8	4.0	4.7	4.8	5.4	6.6	10.9	10.8	10.2	9.5	9.5	9.9	9.4	11.1	10.4	10.3	9.2	-3.9	4.2	4.2	5.3	5.6	6.2	6.1	6.3	5.5	6.2	7.2
China Monthly Money Supply M1 YoY (1%)	4.4	3.1	3.4	3.4	3.3	3.5	4.4	0.0	4.8	5.0	5.5	6.8	6.5	6.9	8.0	8.1	9.1	10.0	8.6	14.7	7.4	7.1	6.2	6.1	5.5	4.9	4.2	3.7	2.8	3.0
China Monthly Money Supply M2 YoY (0%)	8.5	5.1	8.2	8.4	8.4	8.2	8.7	8.4	8.8	10.1	11.1	11.1	11.1	10.7	10.4	10.9	10.5	10.7	10.1	9.4	10.1	9.4	8.1	8.3	8.6	8.3	8.2	8.3	8.7	8.5
China Total Loans of Financial Institutions YoY (1%)	13.0	12.6	12.4	12.5	12.4	12.4	12.3	12.1	12.1	12.7	13.1	13.2	13.2	13.0	13.0	13.0	12.9	12.8	12.8	12.7	12.9	12.6	12.3	12.2	12.3	12.3	12.1	11.9	11.9	11.7
China PPI Manufacturing YoY (0%)	0.0	-0.2	-0.8	-1.2	-1.5	-1.6	-0.9	-0.6	-0.7	-1.2	-2.2	-2.4	-2.0	-1.8	-1.4	-1.3	-1.2	-0.8	0.0	1.0	1.7	3.4	5.4	7.4	7.4	7.5	8.0	8.9	10.8	10.1
China Retail Sales Cumulative Value YoY (5%)	8.4	8.3	8.2	8.2	8.1	8.0	8.0		-20.5	-19.0	-16.2	-13.5	-11.4	-9.9	-8.6	-7.2	-5.9	-4.8	-3.9		33.8	33.9	29.6	25.7	23.0	20.7	18.1	16.4	14.9	13.7
China Value Added of Industry YoY Cumulative (5%)	6.0	5.8	5.6	5.6	5.6	5.6	5.7		-13.5	-8.4	-4.9	-2.8	-1.3	-0.4	0.4	1.2	1.8	2.3	2.8		35.1	24.5	20.3	17.8	15.9	14.4	13.1	11.8	10.9	10.1
China Fixed Assets Investment (Excluding Rural Households) Cumulative YoY (9%)	5.8	5.7	5.5	5.4	5.2	5.2	5.4		-24.5	-16.1	-10.3	-6.3	-3.1	-1.6	-0.3	0.8	1.8	2.6	2.9		35.0	25.6	19.9	15.4	12.6	10.3	8.9	7.3	6.1	5.2
ina Fixed Assets Investment (Cumulative) YoY - State-owned & State holdings (9%)	6.9	7.1	7.1	7.3	7.4	6.9	6.8		-28.1	-12.8	-6.9	-1.9	2.1	3.8	3.2	4.0	4.9	5.6	5.3		32.9	25.3	18.6	11.8	9.6	7.1	6.2	5.0	4.1	3.0
nina Fixed Assets Investment (Cumu) YoY- Infrastructure (excluding electricity) (9%)	4.1	3.8	4.2	4.5	4.2	4.0	3.8		-30.3	-19.7	-11.8	-6.3	-2.7	-1.0	-0.3	0.2	0.7	1.0	0.9		36.6	29.7	18.4	11.8	7.8	4.6	2.9	1.5	1.0	0.5
China Private Investments in Fixed Assets YTD YoY (8%)	5.7	5.4	4.9	4.7	4.4	4.5	4.7		-26.4	-18.8	-13.3	-9.6	-7.3	-5.7	-2.8	-1.5	-0.7	0.2	1.0		36.4	26.0	21.0	18.1	15.4	13.4		9.8	8.5	7.7
China Completed Investment in Real Estate(Cumulative)YoY (7%)	10.9	10.6	10.5	10.5	10.3	10.2	9.9		-16.3	-7.7	-3.3	-0.3	1.9	3.4	4.6	5.6	6.3	6.8	7.0		38.3	25.6	21.6	18.3			10.9	8.8	7.2	6.0
China Import Trade USD YoY (2%)	-6.8	-4.9	-5.5	-8.2	-6.2	0.8	16.5	-12.7	7.7	-1.3	-14.4	-16.7	2.3	-1.6	-2.3	12.7	4.4	3.9	6.5	28.7	18.9		44.0		1000	10000		17.5		31.7
China Property - Land Areas Purchased YTD YoY (3%)	-27.5				-	-14.2				-22.6	-12.0	-8.1	-0.9	-1.0	-2.4	-2.9	-3.3	-5.2	717		33.0	16.9	4.8		-11.8	1000	-10.2	Total Control	-11.0	
China Property - Floor Space of Newly Started Cumulative YoY% (4%)	10.1		8.9	8.6	10.0	8.6	8.5			-27.2	-18.4	-12.8	-7.6	-4.5	-3.6	-3.4	-2.6	-2.0			64.3		12.8	6.9			-3.2		-7.7	
China Property - Total Sales of Buildings YoY (3%)	5.6	6.2	6.7	7.1	7.3	7.3	6.5		-35.0		-18.6			-2.1	-017	3.7		7.2	8.7		133.4	1000	68.2		717			16.6		

Data Source: Bloomberg, Intellectual Property of 42 Macro LLC. Nowcast feature weights are dynamically retrained monthly according to the relative strength of the first difference regressions between the independent and the dependent variables.



#### **China INFLATION: Secular View**

### **China INFLATION: Cyclical View**



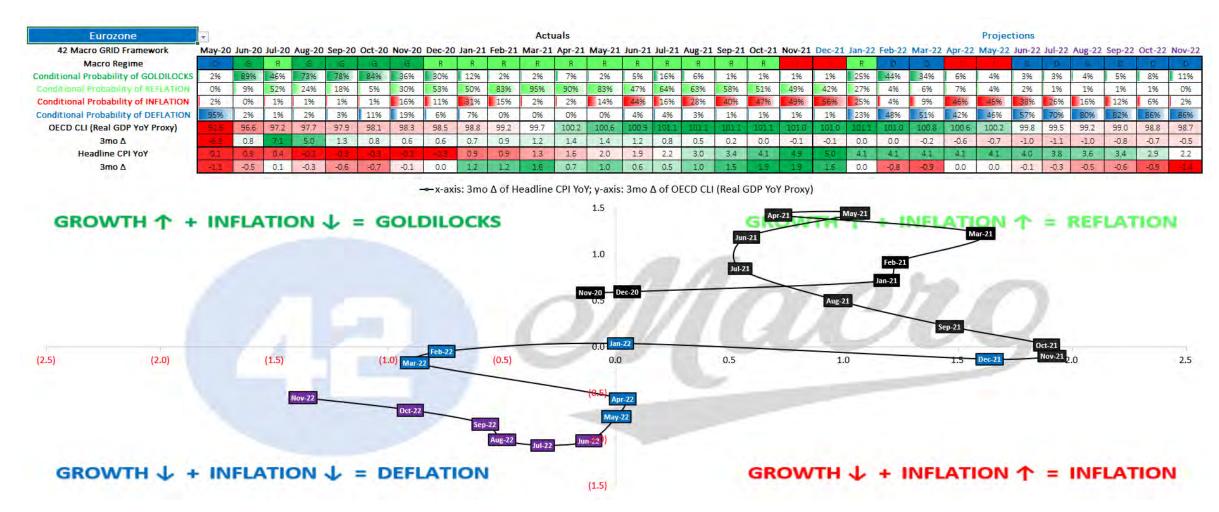


## China INFLATION Agent-Based Nowcast Model

	_										42	Macr	o Age	nt-Bas	ed IN	LATIO	N Nov	vcast N	Model	Featu	res									
China	w 1-1	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
China CPI YoY	2.7	2.8	2.8	3.0	3.8	4.5	4.5	5,4	5.2	4.3	3.3	2.4	2.5	2.7	2.4	1.7	0.5	-0.5	0.2	-0,3	-0,2	0.4	0.9	1.3	1.1	1.0	0.8	0.7	1.5	2.3
China Core CPI (excluding Food & Energy) YoY (1%)	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.5	1.0	1.2	1.1	1.1	0.9	0.5	0.5	0.5	0.5	0.5	0.4	-0,3	0.0	0.3	0.7	0.9	0.9	1.3	1.2	1.2	1.3	1.2
China PPI YoY (10%)	0.0	-0.3	-0.8	-1.2	-1.6	-1.4	-0.5	0.1	-0.4	-1.5	-3,1	-3.7	-3,0	-2.4	-2.0	-2.1	-2.1	-1.5	-0.4	0.3	1.7	4.4	6.8	9.0	8.8	9.0	9.5	10.7	13.5	12,9
Commodity Research Bureau BLS/US Spot All Commodities (2%)	-3.7	-6.1	-1.5	-2.8	-5.6	-6.2	-0.6	1.0	0.0	-8.4	-12.2	-8.8	-9,2	-5.1	-2.4	-0.5	0.0	3.7	3.6	5.5	14.0	26.6	38.1	33.3	41.1	37.9	33.7	29.4	33.5	27.4
Commodity Research Bureau BLS/US Spot Foodstuff (2%)	3.4	2.6	4.4	0.5	-1.2	-1.7	5.7	4.8	4.7	-5.0	-13.4	-10,1	-14.1	-10.4	-2.0	-0.1	-2.4	3.4	0.3	1.8	14.3	29.2	52.2	40.3	53.8	46.9	40.1	31.3	35.0	26.
Commodity Research Bureau BLS/US Spot Raw Industrials (1%)	-8.3	-11.7	-5.4	-5.0	-8.4	-9.2	-4.8	-1.6	-3.2	-10.4	-11.4	-7.9	-5.6	-1.2	-2.7	-0.8	1.7	3.9	6.0	8.1	13.8	24.9	29.1	28.7	32.9	32.0	29.5	28.2	32.4	27.
China CPI Food YoY (41%)	8.3	9.1	10.0	11.2	15.5	19.1	17.4	20.6	21.9	18.3	14.8	10.6	11.1	13.2	11.2	7.9	2.2	-2.0	1.2	1.6	-0.2	-0.7	-0.7	0.3	-1.7	-3.7	-4.1	-5.2	-2.4	1.6
China CPI Pork YoY (26%)	21.1	27.0	46.7	69.3	101.3	110.2	97.0	116.0	135.2	116.4	96.9	81.7	81.6	85.7	52.6	25.5	-2.8	-12.5	-1.3	-3.9	-14.9	-18.4	-21.4	-23.8	-36.5	~43.5	-44.9	-46.9	-44.0	-32
China CPI Non Food YoY (9%)	1.4	1.3	1.1	1.0	0.9	1.0	1.3	1.6	0.9	0.7	0.4	0.4	0.3	0.0	0.1	0.0	0.0	-0.1	0.0	-0.8	-0.2	0.7	1.3	1.6	1.7	2.1	1.9	2.0	2.4	2.5
China PPI Manufacturing YoY (5%)	0.0	-0.2	-0.8	-1.2	-1.5	-1.6	-0.9	-0.6	-0.7	-1.2	-2.2	-2.4	-2.0	-1.8	-1.4	-1.3	-1.2	-0.8	0.0	1.0	1.7	3.4	5.4	7.4	7.4	7.5	8.0	8.9	10.8	10.1
hina 1st Tier Cities Newly Built Commercial Residential Bldgs Price YoY Avg (1%)	4.4	4.3	4.3	4.6	4.7	4.9	3.9	3.8	3.5	3.4	2.9	2.9	3.3	3.6	3.9	3.9	4.1	3.9	4.0	4.2	4.8	5.2	5.8	5.9	6.2	6.0	5.7	5.3	5.0	4.8
nina 2nd Tier Cities Newly Built Commercial Residential Bldgs Price YoY Avg (0%)	11.0	10.2	9.4	8.9	8.4	7.4	7.0	6.5	5.9	5.4	5.2	4.9	4.8	4.6	4.4	4.2	3.8	3.7	3.5	3.6	4.0	4.4	4.5	4.6	4.4	4.3	4.1	3.8	3.4	3.1
na 3rd Tier Cities Newly Built Commercial Residential Bldgs Price YoY Average (0%)	11.3	10.7	9.4	8.7	8.0	7.4	7.0	6.7	6.2	5.7	5.5	5.3	5.2	5.1	5.1	4.9	4.5	4.2	3.9	3.8	4.1	4.3	4.2	4.2	4.0	3.7	3.1	2.5	2:0	1.5



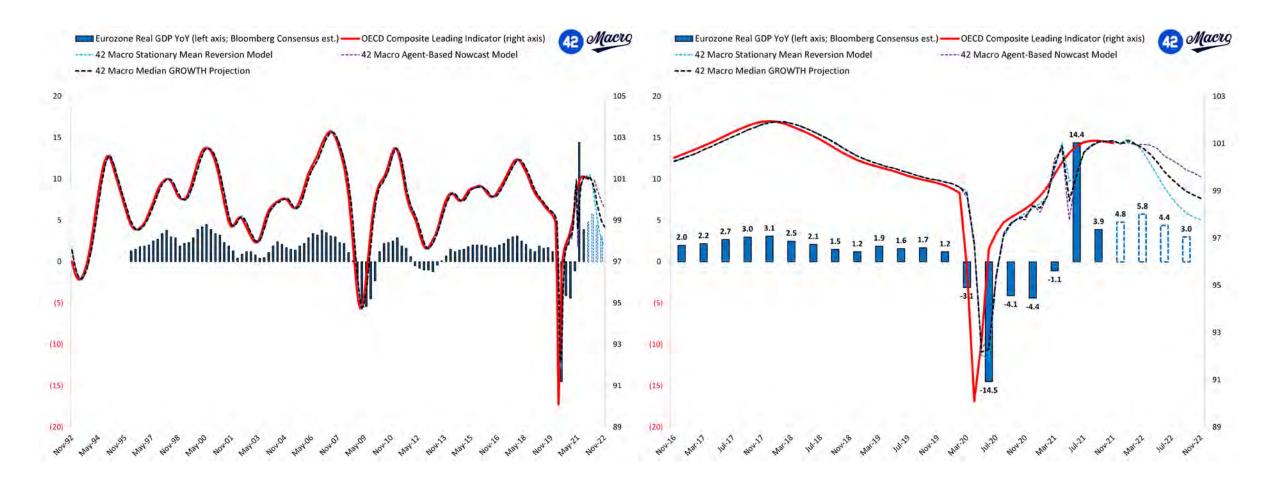
# Eurozone GRID Outlook: Growth Remains Steady For Now, But Should Start To Falter In Q2





#### **Eurozone GROWTH: Secular View**

### **Eurozone GROWTH: Cyclical View**





## **Eurozone GROWTH Agent-Based Nowcast Model**

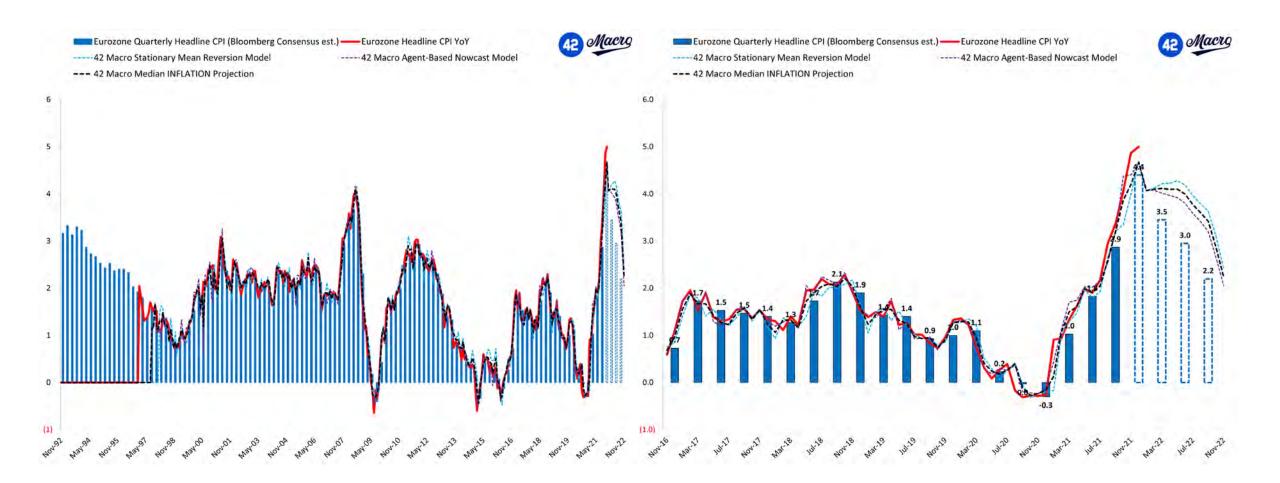
Eurozone	→ 1-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	De
Euro Area OECD Leading Indicators CLI Amplitude Adjusted SA	99.7	99.6	99.5	99.5	99.4	99.3	99.2	99.1	98.9	95.8	90.1	92.5	96.6	97.2	97.7	97.9	98.1	98.3	98.5	98.8	99.2	99.7	100.2	100.6	100.9	101.1	101.1	101.1	101.1	101.0	
Eurostat Industrial Production Eurozone Industry Ex Construction YoY WDA (3%)	-2.3	-1.3	-2.2	-1.2	-1.7	-1.3	-3.4	-2.1	-1.8	-13.3	-28.7	-20.2	-11.7	-6.9	-7.0	-6.5	-3.6	-0.6	0.0	0.5	-1.7	12.0	39.8	20.5	10.5	7.7	4.9	5.1	3.3		
OECD Euro Area International Trade Exports Value YoY SA (3%)	-1.9	-1.3	-2.9	-3.3	0.1	-1.8	-0.3	-1.6	-1.4	-9.8	-32,5	-26.3	-15.0	-8.8	-4.1	-0.3	-1.1	4.4	6.9	6.4	7.4	16.6	50.9	50.3	29.1	19.8	14.3	9.9	9.5		
Eurostat Retail Sales Eurozone Volume YoY WDA (4%)	2.9	2.4	2.9	3.1	1.9	2.4	2.1	2.2	2.3	-7.8	-18.9	-2.4	1.7	0.4	4.5	2.5	4.6	-1.3	1.5	-4.8	-1.1	13.7	23.7	8.7	5.6	3.4	1.4	2.8	1.7	7.8	
Markit Eurozone Manufacturing PMI SA (10%)	47.6	46.5	47.0	45.7	45.9	46.9	46.3	47.9	49.2	44.5	33.4	39.4	47.4	51.8	51.7	53.7	54.8	53.8	55.2	54.8	57.9	62.5	62.9	63.1	63.4	62.8	61.4	58.6	58.3	58.4	-
Markit Eurozone Services PMI SA (9%)	53.6	53.2	53.5	51.6	52.2	51.9	52.8	52.5	52.6	26.4	12.0	30.5	48.3	54.7	50.5	48.0	46.9	41.7	46.4	45.4	45.7	49.6	50.5	55.2	58.3	59.8	59.0	56.4	54.6	55.9	5
ro Area Business Tendency Manufacturing Confidence Composite OECD Normalsd SA (3%)	-2.5	-2.6	-2.7	-2.8	-2.7	-2.5	-2.2	-1.8	-2.0	-3.0	-4.3	-4.5	-3.6	-2.4	-1.5	-0.7	-0.3	-0.1	0.1	0.5	1.7	4.1	6.9	8.0	7.7	6.8	6.0	5.4	5.1	4.9	Г
Euro Area Consumer Opinion Confidence Composite OECD Normalised SA (3%)	-0.7	-0.7	-0.7	-0.6	-0.5	-0.3	-0.1	-0.2	-0.8	-2.1	-3.4	-3.6	-3.2	-2.8	-2.5	-2.5	-2.7	-2.9	-2.7	-2.4	-1.4	0.7	3.0	4.1	4.1	3.7	3.4	3.4	3.4	3.2	
Europe Eurozone New Passenger Car Registrations YoY (0%)	-6.2	1.1	-9.6	19.4	10.3	5.0	21.9	-7.1	-6.8	-58.5	-79.6	-52.4	-22.6	-5.8	-17.1	1.9	-7.4	-12.5	-2.8	-24.5	-20.9	95.5	265.0	51.7	8.4	-23.6	-21.8	-24.1	-31.4	-20.8	
Europe EU 27 New Passenger Car Registrations YoY (1%)	1.4	1.4	-8.4	14.5	8.7	4.9	21.7	-7.5	-7.4	-55.1	-76.3	-52.3	-5.7	-5.7	-18.9	3.1	-7.8	-12.0	-3.3	-24.0	-19.3	87.3	218.6	53.4	10.4	-23.2	-19.1	-23.1	-30.3	-20.5	
European Commission Consumer Confidence Indicator Eurozone (8%)	-7.0	-6.4	-7.1	-6.5	-7.5	-7.1	-8.0	-7.8	-6.4	-11.5	-21.9	-18.9	-14.6	-14.9	-14.6	-13.6	-15.5	-17.6	-13.8	-15.5	-14.8	-10.8	-8.1	-5.1	-5.3	-4.4	-5.3	-4.0	-4.8	-6.8	
European Commission Economic SentiMent Indicator Eurozone (9%)	103.5	102.9	103.2	101.7	100.9	101.3	101.5	103.2	104.0	95.3	67.8	70.2	78.1	84.2	89.1	92.3	92.5	89.3	92.4	91.5	93.4	100.9	110.5	114.5	117.9	119.0	117.6	117.8	118.6	117.6	1
European Commission Manufacturing Confidence Eurozone Industrial Confidence (9%)	-5.4	-7.1	-5.6	-8.8	-9.3	-8.9	-9.4	-7.1	-6.2	-11.3	-32.5	-27.6	-21.7	-16.3	-12.9	-11.5	-9.3	-10.2	-6.8	-6.1	-3.2	2.1	10.9	11.5	12.8	14.5	13.8	14.1	14.2	14.3	
European Commission Services Confidence Indicator Eurozone (7%)	11.1	10.6	9.2	9.6	9.1	9.3	11.4	11.1	11.2	-2.3	-38.6	-43.5	-35.4	-26.0	-17.0	-11.0	-12.0	-17.0	-17.1	-17.7	-17.0	-9.6	2.2	11.3	17.9	18.9	16.8	15.2	18.0	18.3	1
European Commission Euro Area Business Climate Indicator (4%)	0.2	-0.1	0.2	-0.2	-0.2	-0.2	-0.3	-0.2	-0.1	-0.3	-1.9	-2.4	-2.2	-1.8	-1.4	-1.2	-0.8	-0.7	-0.4	-0.3	-0.2	0.3	1.1	1.4	1.7	1.9	1.7	1.7	1.8	1.8	
ZEW Eurozone Expectation of Economic Growth (0%)	-20.2	-20.3	-43.6	-22.4	-23.5	-1.0	11.2	25.6	10.4	-49.5	25.2	46.0	58.6	59.6	64.0	73.9	52.3	32.8	54.4	58.3	69.6	74.0	66.3	84.0	81.3	61.2	42.7	31.1	21.0	25.9	2
Eurostat Industrial Production Eurozone Capital Goods YoY WDA (2%)	-3.6	-1.5	-1.6	-0.3	-2.7	-1.4	-4.9	-2.2	-3.9	-22.2	-41.1	-28.2	-15.4	-9.3	-13.0	-13.2	-8.1	0.1	-1.2	1.7	-2.6	17.4	54.4	27.2	6.8	6.1	3.2	6.2	5.2		
Eurostat Industrial Production Eurozone Consumer Durables YoY WDA (2%)	-1.2	1.9	0.1	0.4	1.9	1.5	0.3	3.8	1.5	-25.9	-51.7	-25.0	-8.5	-3.2	4.5	0.5	0.4	0.2	1.3	1.2	0.7	34.3	117.5	37.7	16.1	9.6	-1.9	1.5	2.3		
Eurostat Industrial Production Eurozone Consumer Non Durables YoY WDA (4%)	1.2	0.5	-1.3	1.6	3.2	1.0	2.0	0.6	0.9	-0.2	-14.0	-12.9	-6.9	-1.8	-3.7	-1.8	-2.3	-2.8	-4.2	-3.3	-2.9	3.5	19.5	11.4	12.5	9.2	8.8	7.6	6.9		
ECB Money Aggregates M1 YoY (1%)	7,2	7.6	8.7	7.8	8.4	8.6	8.1	7.9	8.4	10.3	11.7	12.8	12.5	13.6	13.0	13.8	14.2	14.3	15.5	16.7	16.4	13.5	12.4	11.4	11.6	11.3	11.1	11.2	10.7	10.0	
ECB Money Aggregates M2 YoY (1%)	5.0	5.4	6.4	5.8	5.1	6.2	5.7	5.5	5.8	7.3	8.2	9.3	9.2	10.1	9.4	10.3	10.6	10.7	11.7	12.4	12.1	10.1	9.2	8.2	8.2	7.8	7.8	7.6	7.5	7.1	
ECB M3 Annual Growth Rate SA (1%)	4:6	5.2	5.8	5.7	5.7	5.6	4.9	5.2	5.5	7.5	8.1	8.9	9.2	10.0	9.5	10.3	10.4	10.9	12.2	12.5	12.3	10.1	9.4	8.6	8.4	7.8	8.0	7.6	7.7	7.3	
Eurostat Retail Sales Germany Volume YoY WDA (1%)	4.1	3.2	3.6	4.0	2.4	3.5	2.4	2.3	2.1	1.0	-5.0	8.1	4.1	4.7	6.7	5.1	9.0	9.9	2.3	-5.1	-2.1	7.8	7.6	0.1	5.5	0.8	0.6	-0.4	-1.9	-2.8	
Eurostat Retail Sales France Volume YoY WDA (3%)	2.6	1.0	4.3	2.7	1.6	3.3	2.8	2.6	1.4	-13.5	-29.7	-3.6	3.6	0.0	6.5	2.7	5.2	-11.4	8.2	2.3	4.2	25.1	42.8	11.2	5.7	6.6	2.5	6.2	3.8	22.7	
Eurostat Retail Sales Netherlands Volume YoY WDA (2%)	2.4	1.4	0.8	2.6	1.7	0.9	3.8	1.8	2.9	0.2	-5.3	4.2	6.1	5.6	8.1	3.8	3.0	7.0	-5.9	-9.8	-5.4	5.3	9.7	9.1	4.6	1.9	1.7	2.7	5.1	2.4	
Eurostat Retail Sales Italy Volume YoY WDA (3%)	2.8	1.7	0.2	1.7	1.0	-0.7	0.7	0.9	2.9	-22.2	-33.2	-14.6	-5.5	-7.8	0.8	-0.1	0.0	-8.5	-6.0	-10.7	-5.0	22.4	39.2	17.8	9.1	7.9	2.3	4.3	4.2		
Eurostat Retail Sales Spain Volume YoY WDA (4%)	2.5	3.2	3.3	3.6	2.6	3.1	1.3	1.7	2.0	-13.6	-29.8	-17.9	-4.5	-3.5	-3.0	-3.5	-2.0	-4.9	-0.1	-9.0	-6.2	13.5	37.2	17.6	1.1	-0.1	-1.2	0.1	-1.1	4.8	
Eurostat Retail Sales Portugal Volume YoY WDA (4%)	3.8	5.0	4.4	3.3	3.5	4.7	2.7	4.4	9.5	-4.8	-21,2	-10.8	-4.2	-2.1	-3.2	1.8	0.8	-3.9	-2.1	-9.9	-15.0	0.9	27.4	15.3	6.6	2.4	3.3	2.7	3.3	10.0	

Data Source: Bloomberg, Intellectual Property of 42 Macro LLC. Nowcast feature weights are dynamically retrained monthly according to the relative strength of the first difference regressions between the independent and the dependent variables.



#### **Eurozone INFLATION: Secular View**

### **Eurozone INFLATION: Cyclical View**





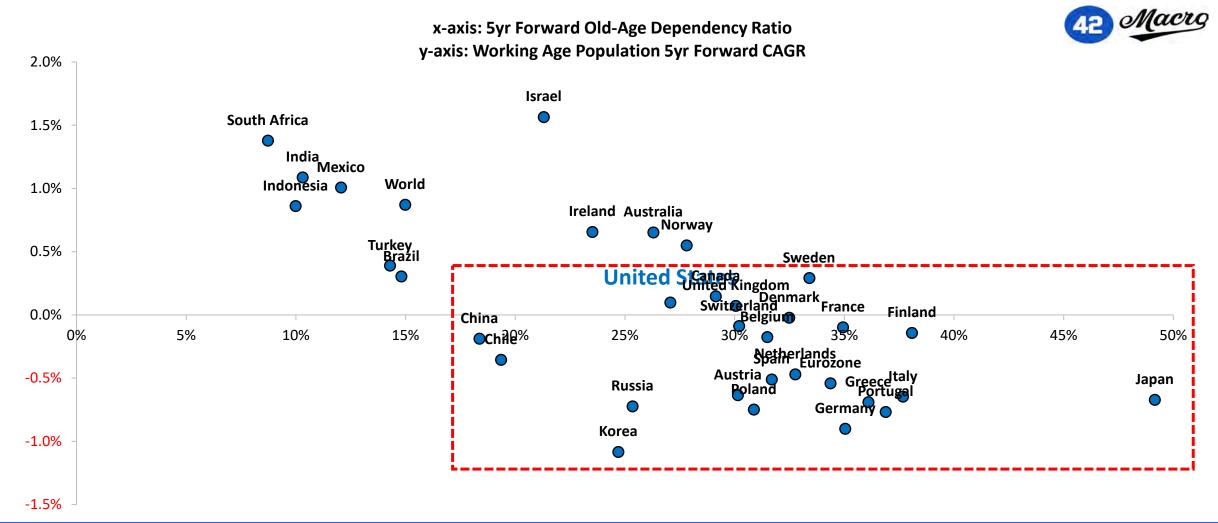
## **Eurozone INFLATION Agent-Based Nowcast Model**

Eurozone	<b>₩ 1-19</b>	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	1 D
Euro Area MUICP All Items NSA YoY	1.3	1.0	1.0	0.8	0.7	1.0	1.3	1.4	1.2	0.7	0.3	0.1	0.3	0.4	-0.2	-0.3	-0.3	-0.3	-0.3	0.9	0.9	1.3	1.6	2.0	1.9	2.2	3.0	3.4	4.1	4.9	
Eurostat Eurozone Core MUICP YoY NSA (9%)	1.1	0.9	0.9	1.0	1.1	1.3	1.3	1.1	1.2	1.0	0.9	0.9	0.8	1.2	0.4	0.2	0.2.	0.2.	0.2	1.4	1.1	0.9	0.7	1.0	0.9	0.7	1.6	1.9	2.0	2.6	
Eurostat PPI Eurozone Industry Ex Construction YoY (7%)	0.7	0.1	-0.9	-1.2	-2.0	-1.4	-0.7	-0.8	-1.4	-2.8	-4.6	-5.0	-3.7	-3.2	-2.6	-2.3	-2.0	-2.0	-1.1	0.4	1.5	4.4	7.6	9.6	10.3	12.4	13.5	16.1	21.9	23.7	
Commodity Research Bureau BLS/US Spot All Commodities (1%)	-9.5	-9.6	-9.9	-11.0	-10.6	-10.6	-2.8	-2.5	-7.0	-15.5	-19.6	-12.3	-11.7	-8.7	1.4	2.2	1.9	5.7	5.1	9.5	21.4	40.5	54.0	52.1	59.1	54.4	47.3	44.0	52.0	42.8	
Commodity Research Bureau BLS/US Spot Foodstuff (0%)	2.5	7.0	5.3	2.8	-0.7	0.0	6.5	5.0	3.7	-7.9	-15.3	-12.5	-15.6	-16.6	-5.8	-2.1	-1.8	1.9	-1.7	0.0	12.4	30.4	51.0	43.1	59.7	57.7	50.2	40.2	42.4	38.5	
Commodity Research Bureau BLS/US Spot Raw Industrials (3%)	-9.1	-7.9	-4.6	-2.8	-8.0	-7.7	-4.1	-1.4	-4.1	-13.1	-13.4	-10.3	-7.3	-7.9	-6.5	-2.9	2.4	2.4	3.8	6.2	12.0	26.1	28.1	31.2	38.0	41.6	38.9	36.8	39.6	39.6	
Euro Area HICP Food & non Alcoholic Beverages (0%)	1.3	1.7	1.9	1.2	1.2	1.5	1.7	1.7	1.8	2.3	3.6	3.4	3.0	1.6	1.2	1.4	1.7	1.5	0.9	1.0	8.0	0.7	0.0	0.1	0.2	1.4	1.9	1.9	1.8	2.2	I
Euro Area HICP Alcoholic Beverages Tobacco & Narcotics (0%)	2.8	2.7	2.8	2.8	2.8	3.4	3.4	3.5	3.3	3.0	3.2	3.5	3.8	3.6	3.6	3.4	3.3	3.1	3.0	3.3	3.5	2.7	2.8	2,3	1.9	2.2	2.3	2.3	2.5	2.0	
Euro Area MUICP Clothing & Footwear (3%)	0.4	1.3	1.2	0.5	0.6	0.7	0.9	0.3	0.9	1.0	-0.4	-0.7	-0.9	6.3	-1.1	-1.4	-0.5	-0.9	-2,2	2.5	0.7	-1.3	-0.2	0.4	1.8	-3.8	3.6	1.7	0.9	1.4	
Euro Area MUICP Housing NSA (8%)	2.3	1.5	1.3	1.0	0.4	0.2	0.7	0.6	0.2	-0.4	-1.0	-1.3	-1.1	-1.2	-1.1	-1.2	-1,2	-1.0	-0.6	0.3	0.5	1.6	3.0	3.5	3.7	4.7	5.2	5.9	8.0	9.1	
Euro Area MUICP Furnishings & Household Equipment (5%)	0.4	0.5	0.5	0.4	0.5	0.5	0.6	0.4	0.7	0.7	0.8	0.7	0.7	0.8	0.3	0.2	0,1	0.0	0,1	1.2	0.8	0.8	0.7	0.8	1.0	1.3	2.0	2.1	2.3	2.6	
Euro Area MUICP Health NSA (0%)	0.7	0.7	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.5	0.3	0,2	0.2	0,2	0.2	0.2	0.2	0.0	0.2	0.2	0.3	0.4	0.6	0.8	0.9	
Euro Area MUICP Transport (9%)	1.1	1.0	0.6	0.0	-0.2	0.0	1.9	3.0	1.8	-0.6	-3.6	-4.5	-3.1	-3.0	-3.2	-3.2	-3.5	-3,6	-2,9	-1.1	0.4	3.5	5.1	6.6	6.0	6.8	7.4	8.5	10.6	12.2	ı
Euro Area MUICP Communications (1%)	-2.5	-2.5	-2.1	-1.8	-1.5	-1.3	-1.4	-1.4	-1.1	-1.3	-1.4	-0.8	-0.9	-1.7	-2.0	-2.2	-3.0	-2.5	-2.5	-1.3	-1.3	-1.7	-1.1	-1.1	-1.0	-0.1	0.1	0.2	1.0	0.5	
Euro Area MUICP Recreation & Culture (5%)	0.7	-1.0	-0.9	-0.1	-0.1	1.6	1.1	0.0	0.4	0.1	0.4	0.3	0.6	0.7	0.0	0.0	0.0	-0.3	0.1	2.7	1.9	1.7	0.7	1.4	-0.4	-1.4	-0.5	1.1	1.6	4.0	
Euro Area MUICP Education (0%)	-0.6	-0.7	0.8	0.6	1.0	1.0	0.9	0.5	0.4	0.4	0.3	0.3	0.9	1.0	1.0	1.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.1	0.3	0.2	0.2	0.2	-1.8	-1.0	-1.0	ı
Euro Area MUICP Restaurants & Hotels (0%)	2.4	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	1.7	1.5	1.5	1.1	0.6	0.8	0,2	0,5	0.8	0.9	8.0	0.7	0.7	0.4	0.2	0.6	1.7	2.1	2.6	2,9	3,3	ı
Euro Area MUICP Misc Goods & Services (6%)	1.6	1.6	1.7	1.7	1.7	1.6	1.7	1.6	1.7	1.7	1.6	1.7	1.5	1.7	1.4	1.3	1.4	1.4	1.3	1.8	1.7	1.7	1.7	1.7	1.9	1.9	2.0	2.1	2.0	2.1	
Euro Area MUICP Goods (13%)	1.0	0.9	0.7	0.4	0.1	0.3	1.0	1.3	0.9	0.2	-0.4	-0.9	-0.5	-0.1	-0.9	-1.1	-0.9	-1.0	-1.0	0.5	0.7	1.3	2.1	2.6	2.8	3.3	4.5	4.6	5.5	6.3	
Euro Area MUICP Food Alcohol & Tobacco (0%)	1.6	1.9	2.1	1.6	1.5	1.9	2.0	2.1	2.1	2.4	3.6	3.4	3.2	2.0	1.7	1.8	2.0	1.9	1.3	1.5	1.3	1.1	0.6	0.5	0.5	1.6	2.0	2.0	1.9	2.2	i
Euro Area MUICP Energy (7%)	1.7	0.5	-0.6	-1.8	-3.1	-3.2	0.2	1.9	-0.3	-4.5	-9.7	-11.9	-9.3	-8.4	-7.B	-8.2	-8.2	-8.3	-6.9	-4.2	-1.7	4.3	10.4	13.1	12.6	14.3	15.4	17.6	23.7	27.5	ď
Euro Area MUICP Services (6%)	1.6	1.2	1.3	1.5	1.5	1.9	1.8	1.5	1.6	1.3	1.2	1.3	1.2	0.9	0.7	0.5	0.4	0.6	0.7	1.4	1.2	1.3	0.9	1.1	0.7	0.9	1.1	1.7	2.1	2.7	
Euro Area CPI Services Related to Housing (2%)	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.6	
Euro Area CPI Services Related to Transport (5%)	2.2	2.1	2.3	2.1	2.4	2.4	2.5	2.0	2.0	1.2	0.7	1.4	1.1	0.2	-0.8	-0.6	-0.9	-0.6	-0.3		0.8	1.5	0.5	1.2	0.7	1.7	2.3	3.3	3.6	4.4	
Euro Area CPI Services Related to Communication (1%)	-0.9	-1.1	-0.8	-0.6	-0.4	-0.1	-0.1	-0.2	0.0	0.1	-0.4	0.3	0.3	-0.6	-0.8	-0.8	-1.8	-1.3	-14	-0.3	-0.3	-0.7	0.1	-0.1		0.7		0.6	1.5	1.0	
Euro Area CPI Services Related to Recreation Incl Repairs & Pers Care (4%)	2.1	0.8	0.9	1.5	1.5	2.4	2.1	1.5	1.8	1.4	1.3	1.3	1.2	0.9	0.7	0.3	0.4	0.5	0.7	1.8	1.2	1.3	0.6	0.8	0.1	0.3	1.0	1.9	2.3	3.7	
iuro Area CPI Services Rel to Recr & Pers Care Excl Pack Holidays & Accom (0%)	2.0	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.7	1.5	1.7	1.8	1.8	2.1	2.2		
Euro Area CPI Services Related to Package Holidays & Accommodation (4%)	3.4	1	-0.1	1.0	0.9	3.1		0.7	1.9		200		-1.2		-3.1	Jeres.	-4.1	-	-2.5	0.1	-0.9	-0.6	-2.4	-0.5	2.7	200	3.0	3.7	4.0	7.0	

Data Source: Bloomberg. Intellectual Property of 42 Macro LLC. Nowcast feature weights are dynamically retrained monthly according to the relative strength of the first difference regressions between the independent and the dependent variables.

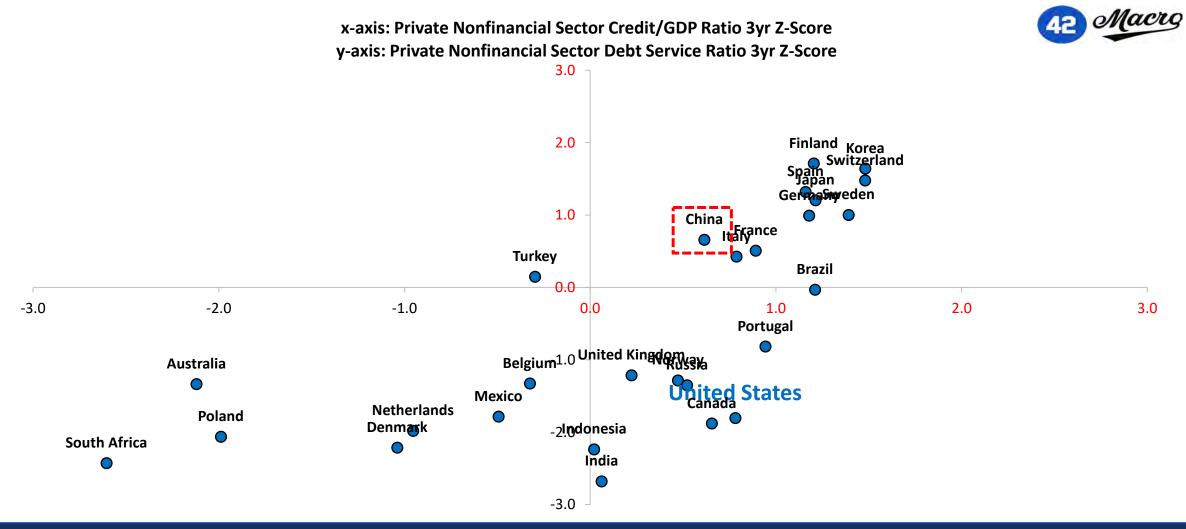


# **DEMOGRAPHICS:** Still Outright Deflationary Across Much Of The Developed World – Particularly In Europe And Japan... China Disinflationary As Well



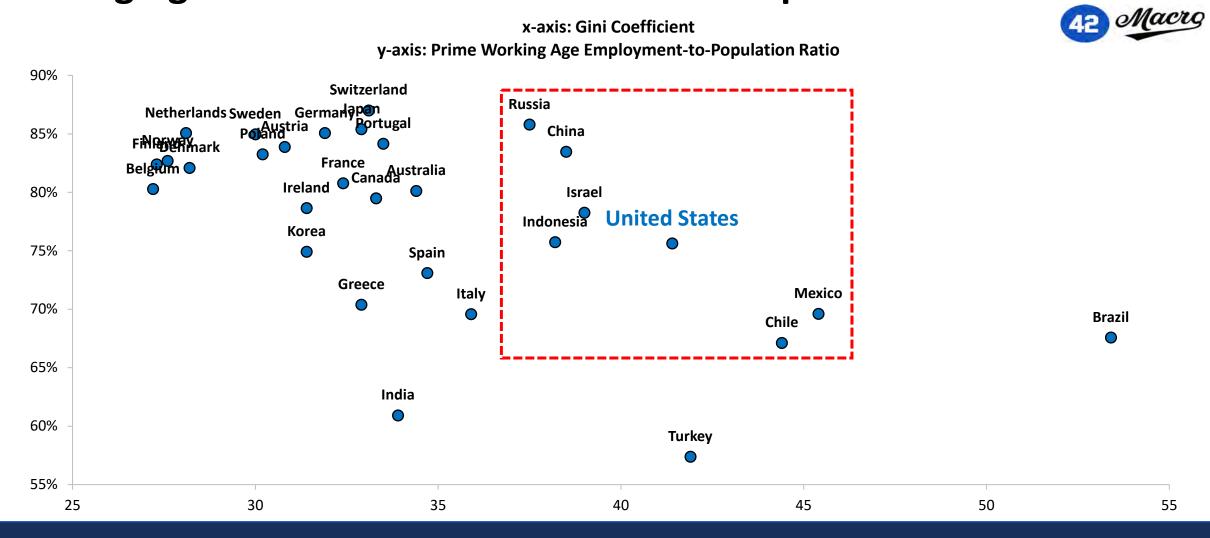


# LEVERAGE: In Line With Past Crises, "Extend And Pretend" Was The Global Policy Response To The COVID-19 Pandemic As Well... Now Beijing Wants Out





# **POLITICS:** The Drivers Of Populism Suggest The US Has Become An Emerging Market From A Political Risk Perspective





# **BALANCE OF PAYMENTS:** Who Or What Will Be Called Upon To Finance Bipartisan Populism In The US? Will That Process Be Smooth Or Turbulent?

x-axis: Current Account Balance as a % of GDP y-axis: Sovereign Fiscal Balance as a % of GDP







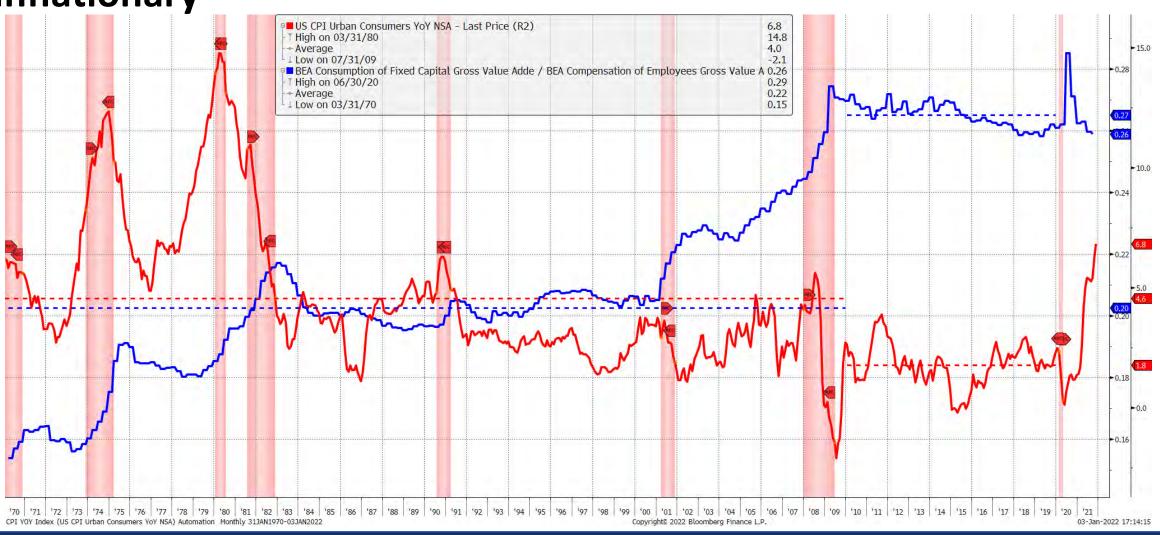
# 42 Macro Secular Inflation Model: Our #Math Suggests The Stationary Mean Of Headline CPI Has Already Transposed Itself 60-100bps Higher

US SECULAR INFLATION DRIVER	Δ-ADJUSTED Z-SCORE (Latest Value vs. 2010-19 Sample)
Automation: Capex/Employee Compensation (Latest Value = 26%)	1.6
Consumer Demand: Disposable Personal Income per Capita YoY (Latest Value = 5.5%)	0.8
Demographics: Share of Population ≥ 65 Years Old (Latest Value = 17%)	(2.7)
Fed Reaction Function: Fed Balance Sheet as a % of GDP (Latest Value = 38%)	5.1
Fiscal Balance: Budget Deficit as a % of GDP (Latest Value = -12%)	3.1
Globalization: Imports of Goods and Services as a % of GDP (Latest Value = 13%)	2.7
Household Formation: Net Change in Domestic Households (Latest Value = 2011)	3.2
Income Inequality: Gini Coefficient (Latest Value = 0.49)	(2.3)
Money Supply: M2 YoY (Latest Value = 13.1%)	3.5
Money Velocity: M2/Nominal GDP (Latest Value = 1.1)	(4.3)
Monopsony Power: S&P 100 Market Cap/S&P 500 Market Cap (Latest Value = 67%)	(4.4)
Public Debt: Federal Debt Held by the Public as a % of GDP (Latest Value = 116%)	8.3
Technology: NASDAQ 100 Market Cap/Russell 3000 Market Cap (Latest Value = 38%)	(3.9)
Wages: Employment Cost Index YoY (Latest Value = 3.7%)	4.5
Wealth Effect: Household Net Worth as a % of DPI (Latest Value = 796%)	3.4
Wealth Inequality: Top-10% Share of Household Wealth (Latest Value = 65%)	(2.4)
MEAN Z-SCORE MODEL	1.0
WEIGHTED Z-SCORE MODEL	1.5
2010-19 Stationary Mean of Headline CPI YoY	1.8%
2020-29 Stationary Mean Projection - MEAN Z-SCORE MODEL	2.4%
2020-29 Stationary Mean Projection - WEIGHTED Z-SCORE MODEL	2.8%



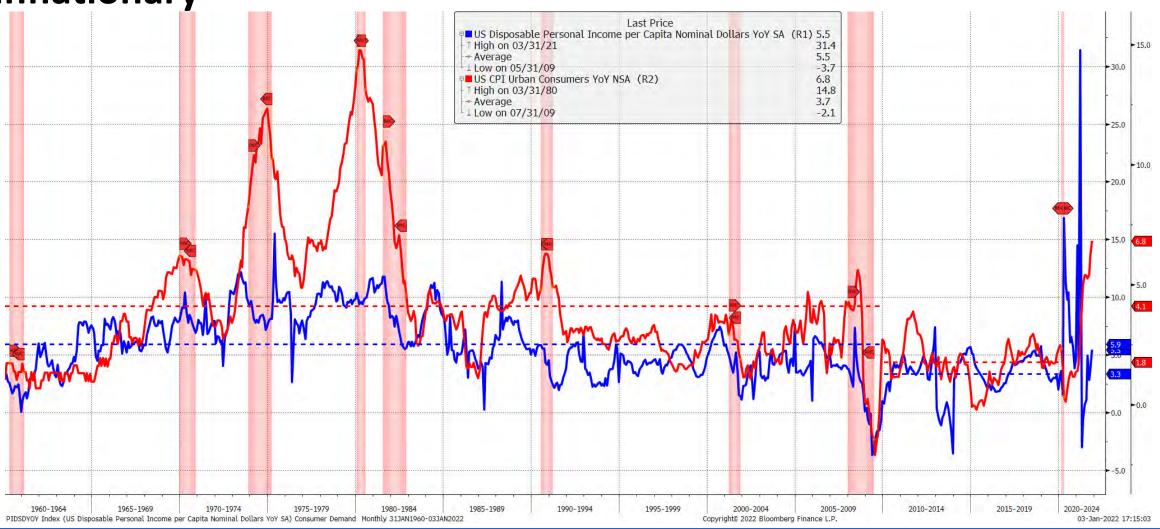
## 42 Macro Secular Inflation Model: Automation... Slightly

**Inflationary** 



## 42 Macro Secular Inflation Model: Consumer Demand... Slightly

Inflationary



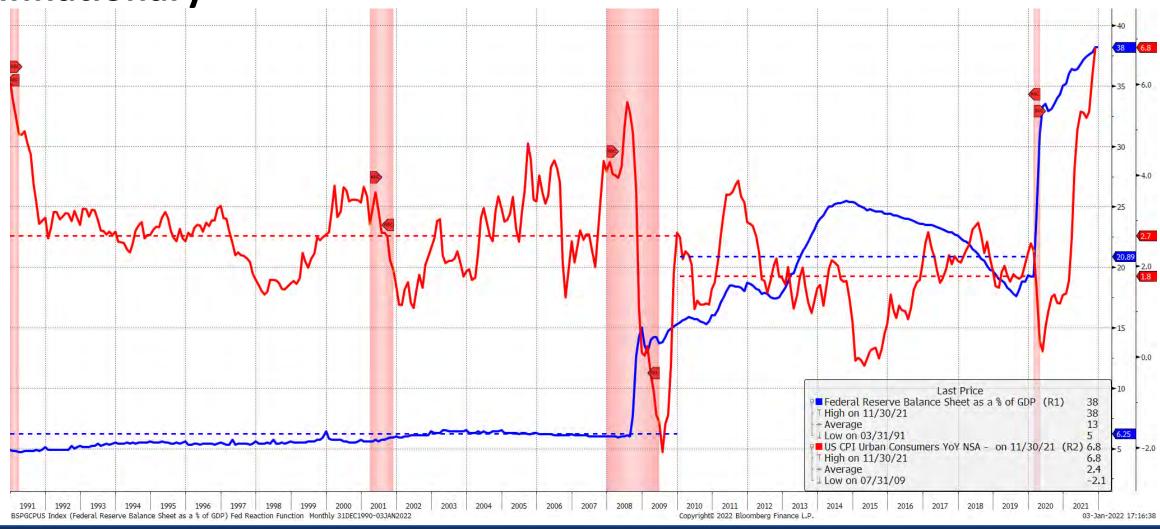
## 42 Macro Secular Inflation Model: Demographics... Disinflationary





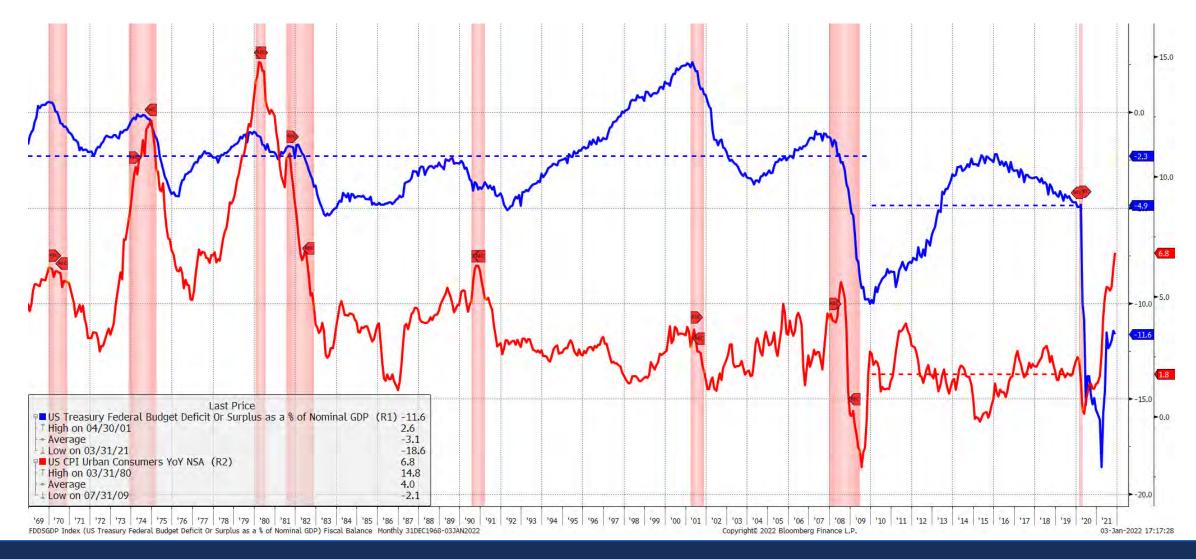
## 42 Macro Secular Inflation Model: Fed Reaction Function... Very

**Inflationary** 





## 42 Macro Secular Inflation Model: Fiscal Balance... Inflationary





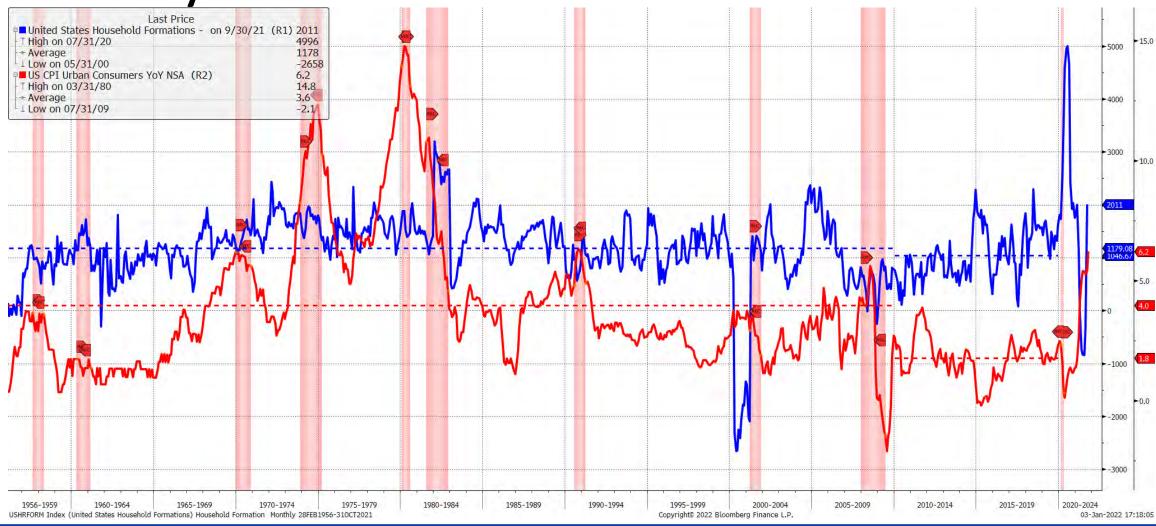
## 42 Macro Secular Inflation Model: Globalization... Inflationary





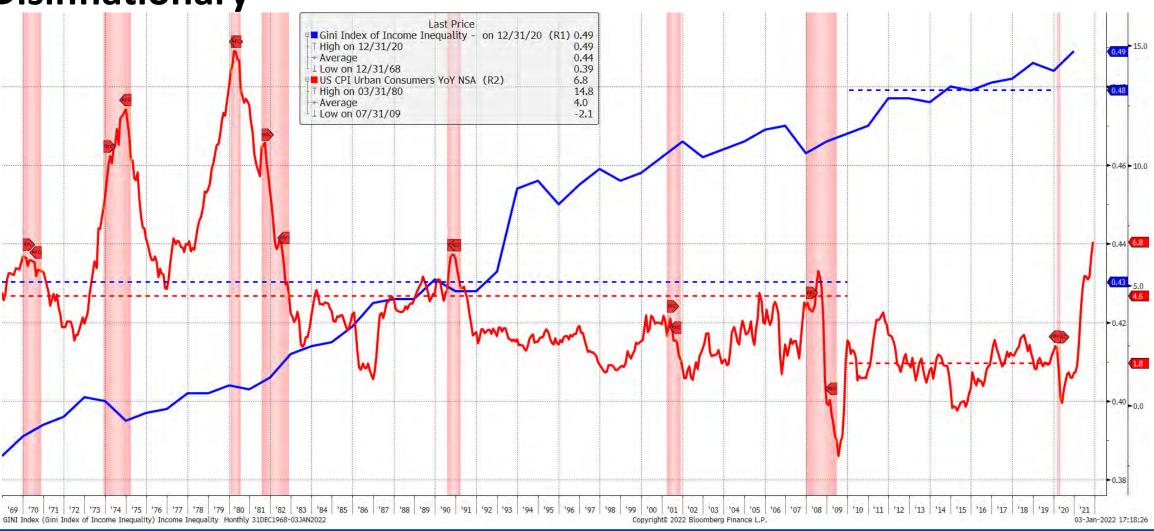
### 42 Macro Secular Inflation Model: Household Formation...

**Inflationary** 

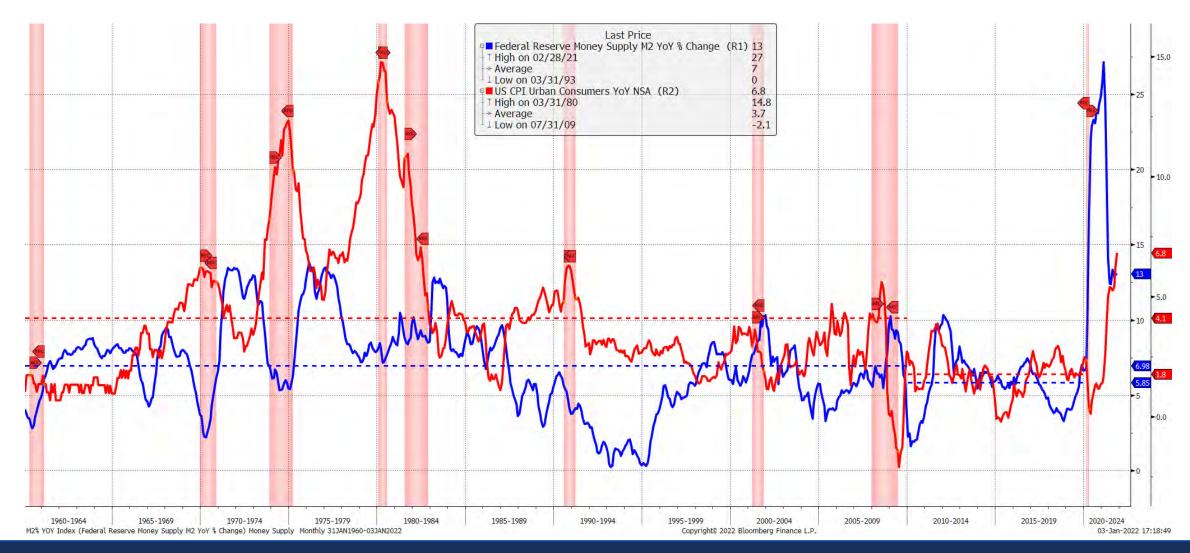


## 42 Macro Secular Inflation Model: Income Inequality...

Disinflationary



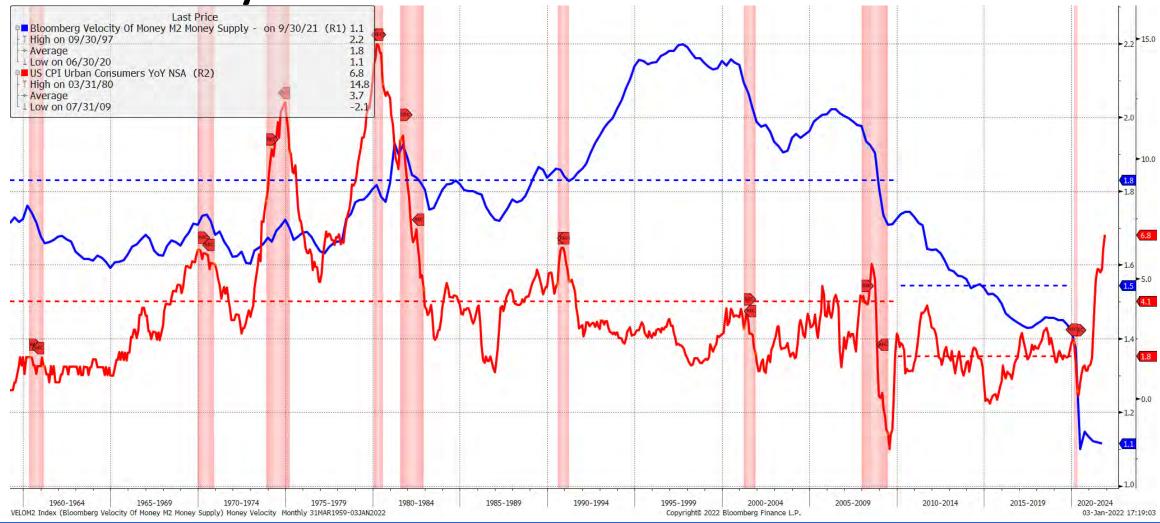
## 42 Macro Secular Inflation Model: Money Supply... Inflationary





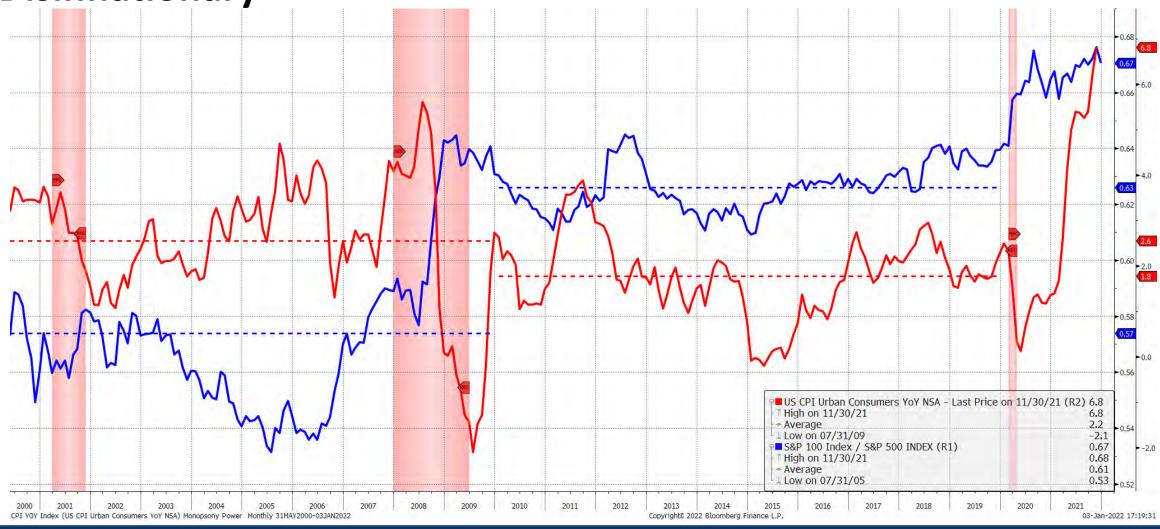
42 Macro Secular Inflation Model: Money Velocity... Very

Disinflationary

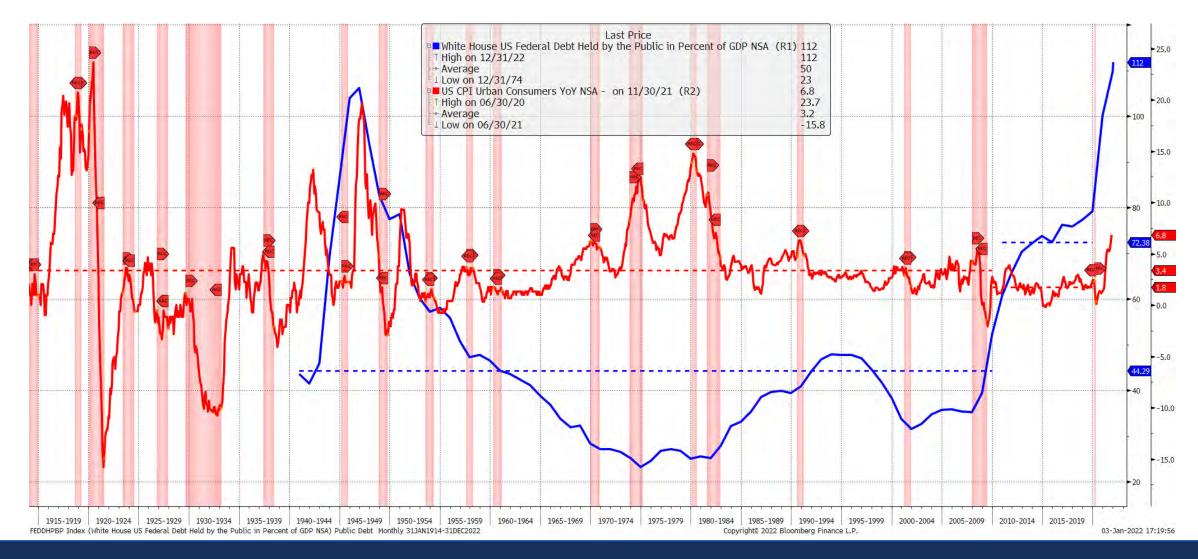


## 42 Macro Secular Inflation Model: Monopsony Power... Very

Disinflationary

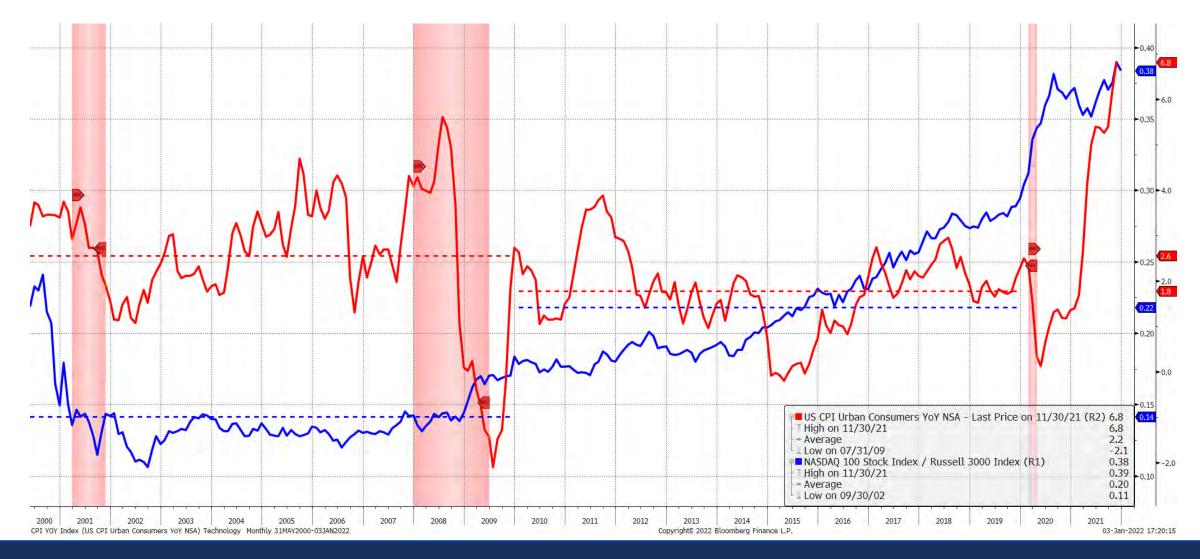


## 42 Macro Secular Inflation Model: Public Debt... Very Inflationary



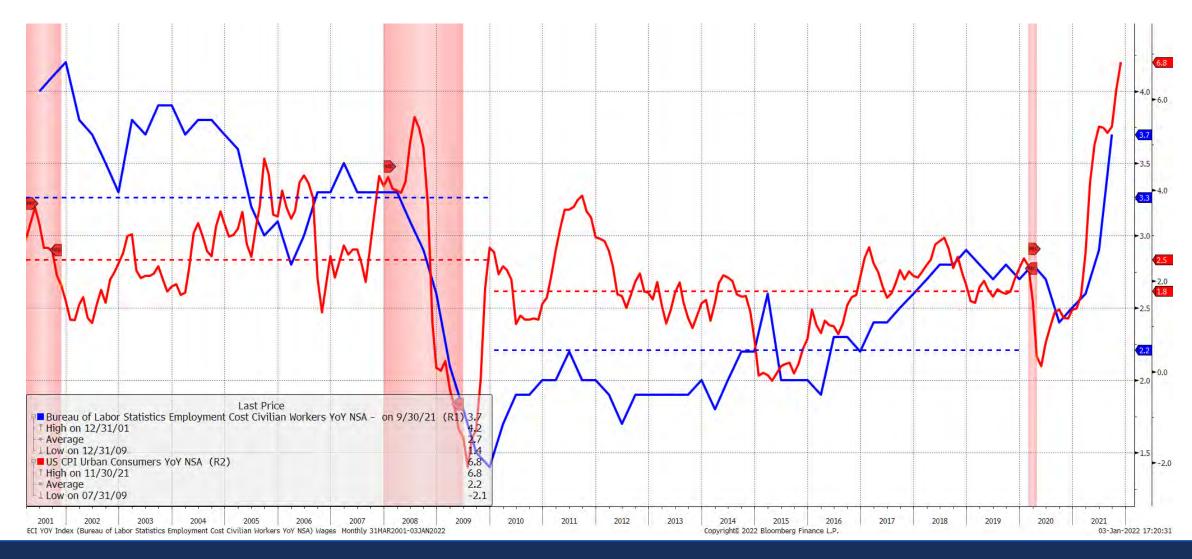


## 42 Macro Secular Inflation Model: Technology... Disinflationary



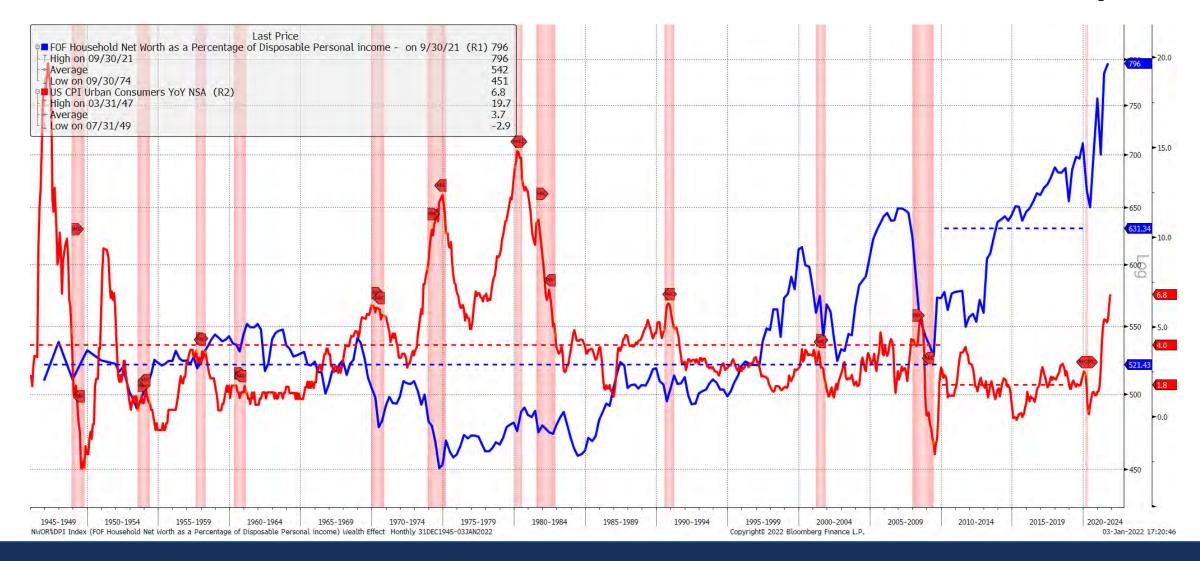


#### 42 Macro Secular Inflation Model: Wages... Very Inflationary





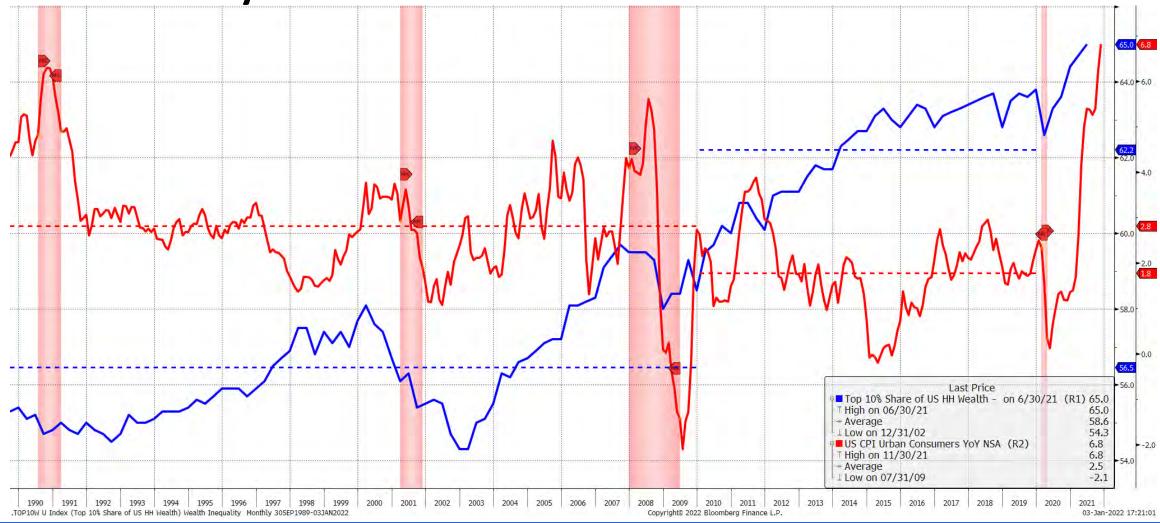
#### 42 Macro Secular Inflation Model: Wealth Effect... Inflationary



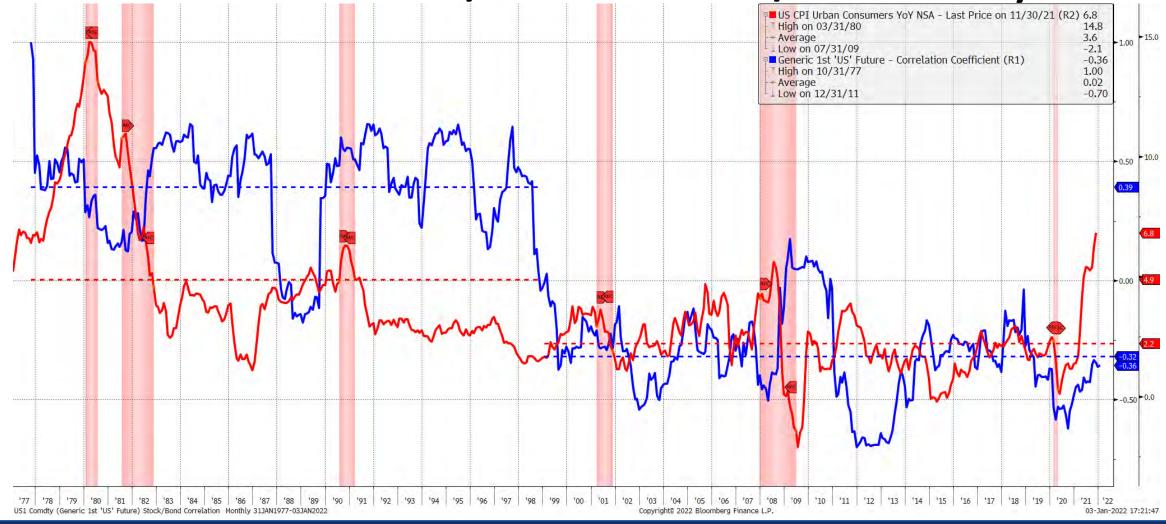


42 Macro Secular Inflation Model: Wealth Inequality...

Disinflationary



Headline CPI Likely Needs To Average A Lot More Than 2.4-2.8% For The "Death" Of The 60/40 Portfolio And/Or Risk Parity





#### If Anything, Investors Should Focus On The 60 (Or 70), Not The 40





The Bond Market Agrees With Our #Math On Secular Inflation

**Dynamics** 





Cyclically Speaking, However, The Fed Will Be Forced To Atone For Its Recent Policy Mistakes



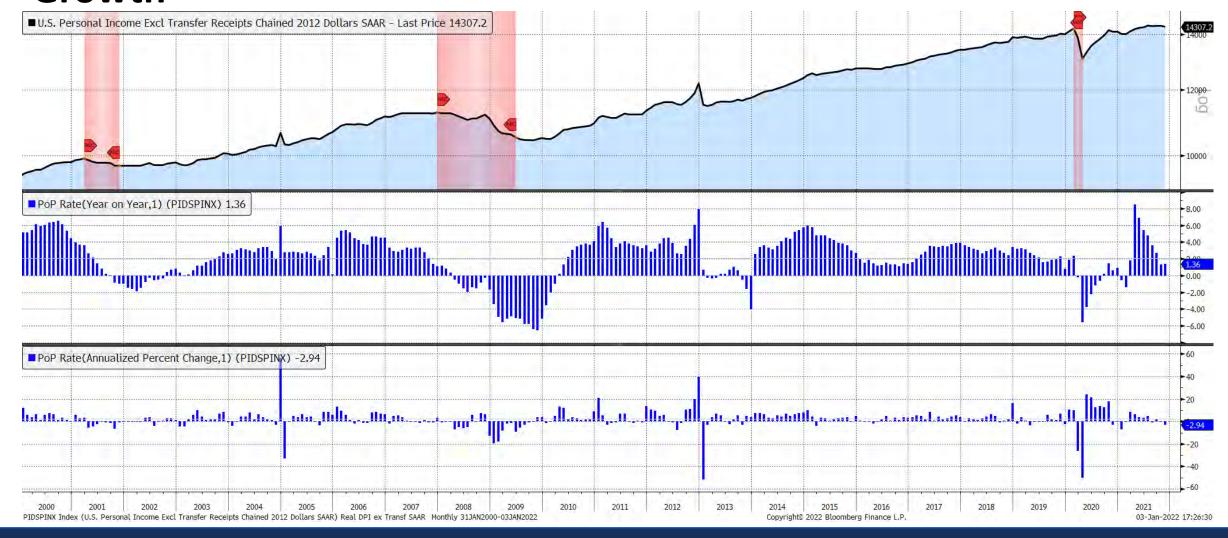


Bear Flattening Is Appropriate As Per Our Global GRID Model Projections For A Sea Of "Ds" Throughout 2022



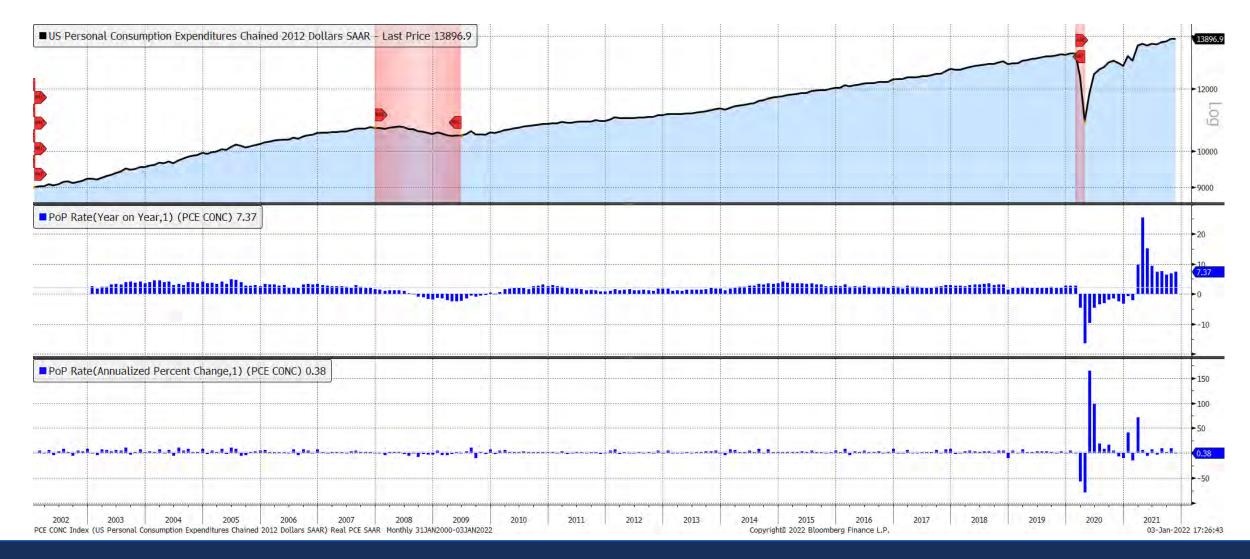


## Rampant Inflation May Begin To Stifle Domestic Consumption Growth



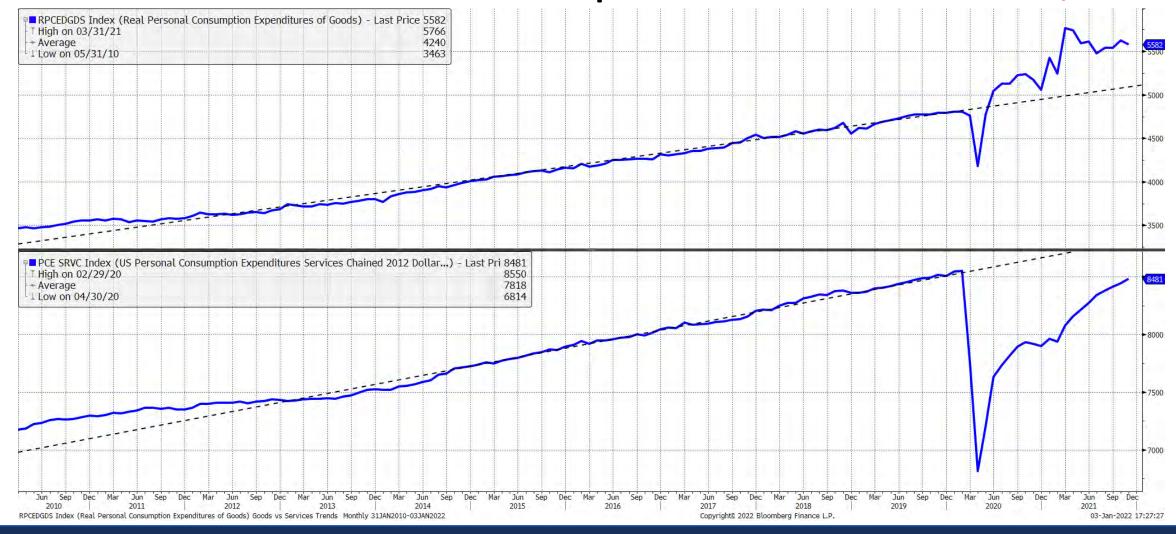


#### Was The November PCE Report A Harbinger Of Things To Come?



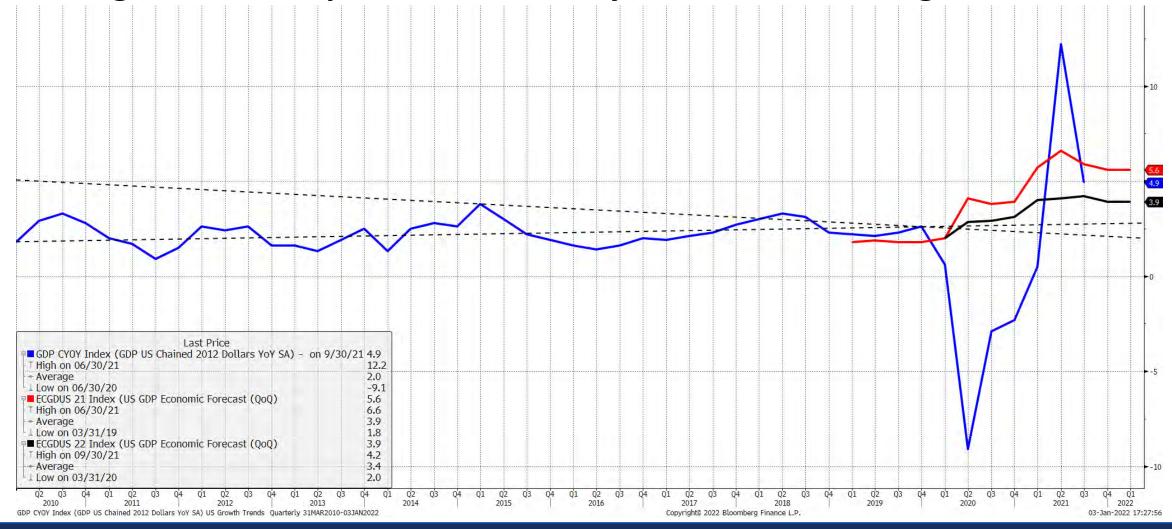


## The -\$492bn △ To The Goods Consumption 5yr Trend Line Though 2019 And The +328bn △ To The Services Consumption Trend Line Nets Out To -\$164bn



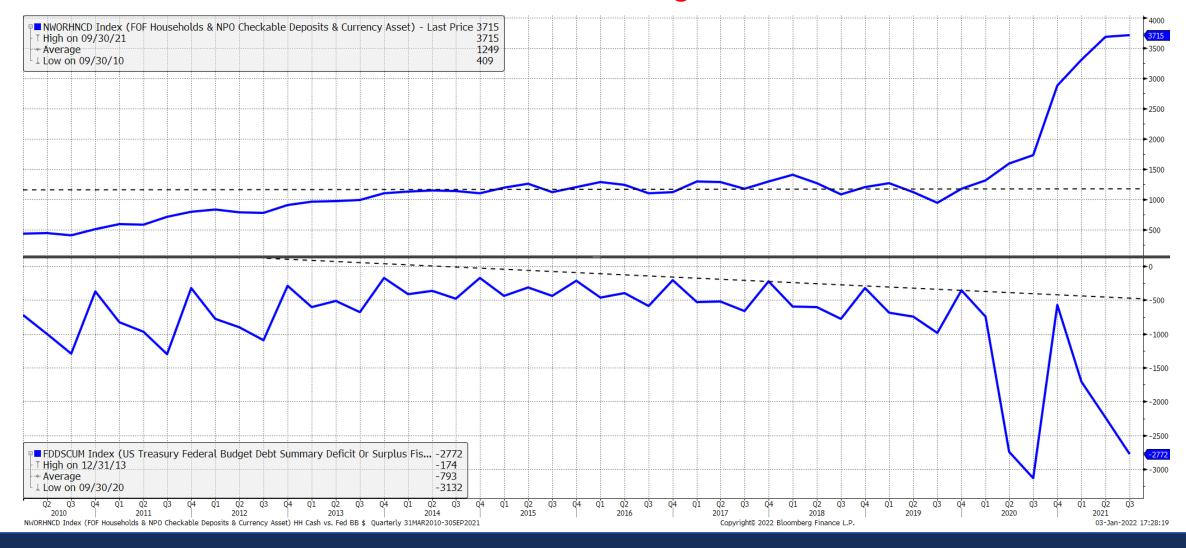


## US Real GDP: Bloomberg Consensus Is Calling For 3.9% Growth In 2022; That Figure Is +170bps North Of The 5yr Trend Line Through 2019



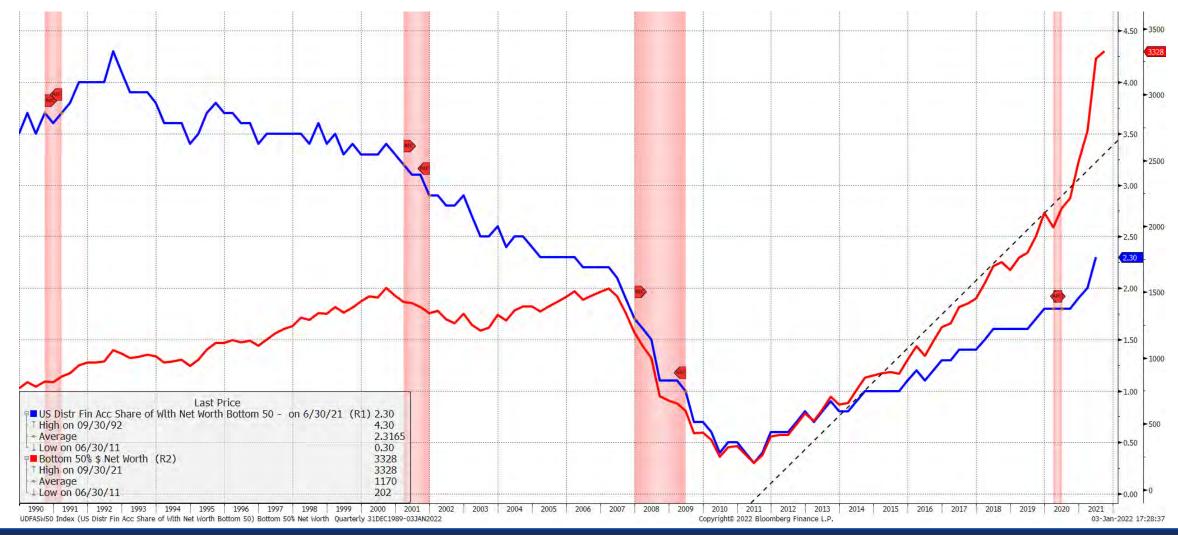


#### The US Consumer Has \$2.6tn In Excess Savings Relative To The 5yr Trend Through 2019; Meanwhile The Federal Gov't Has \$2.3tn In Excess Budget Deficits... That Nets Out To +\$300bn



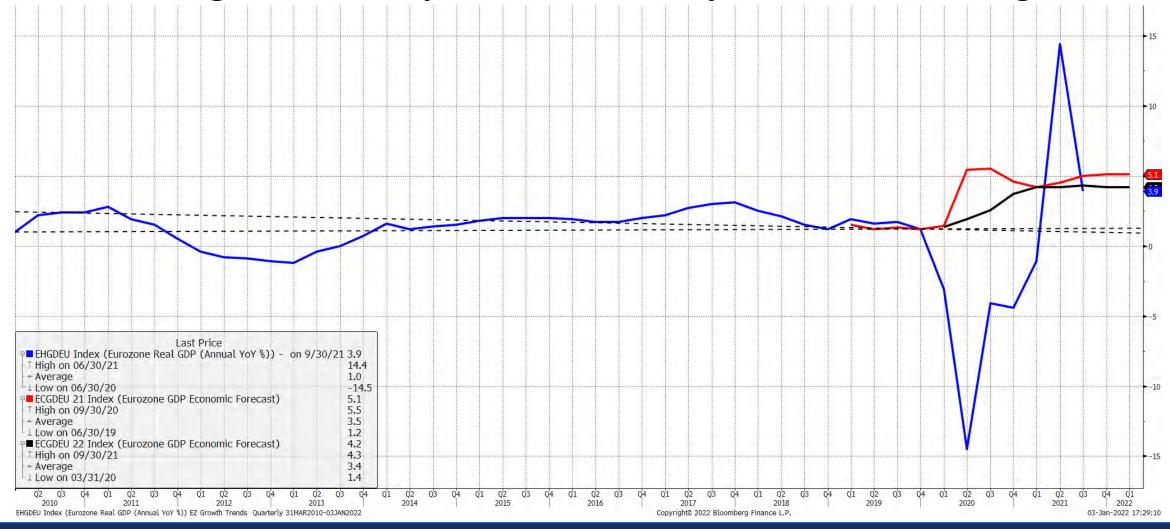


#### If You Assume 100% Of The Rise In The Net Worth Of The Bottom-50% Of Households By Wealth Distribution Is Cash, That = \$777bn... Projected PCE Inflation In 2022 = ~\$800bn\*



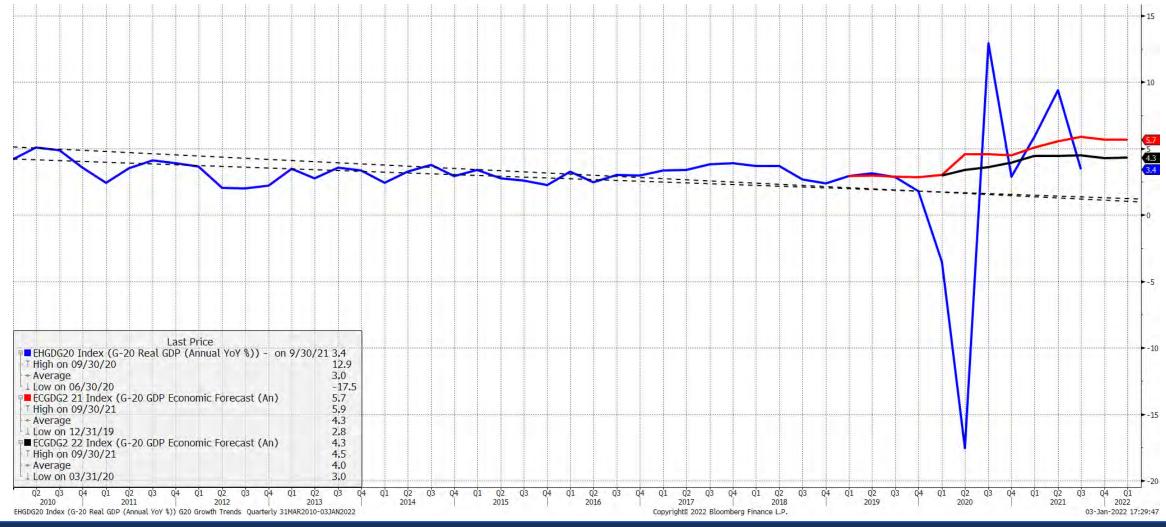


## **Eurozone Real GDP:** Bloomberg Consensus Is Calling For 4.2% Growth In 2022; That Figure Is +330bps North Of The 5yr Trend Line Through 2019



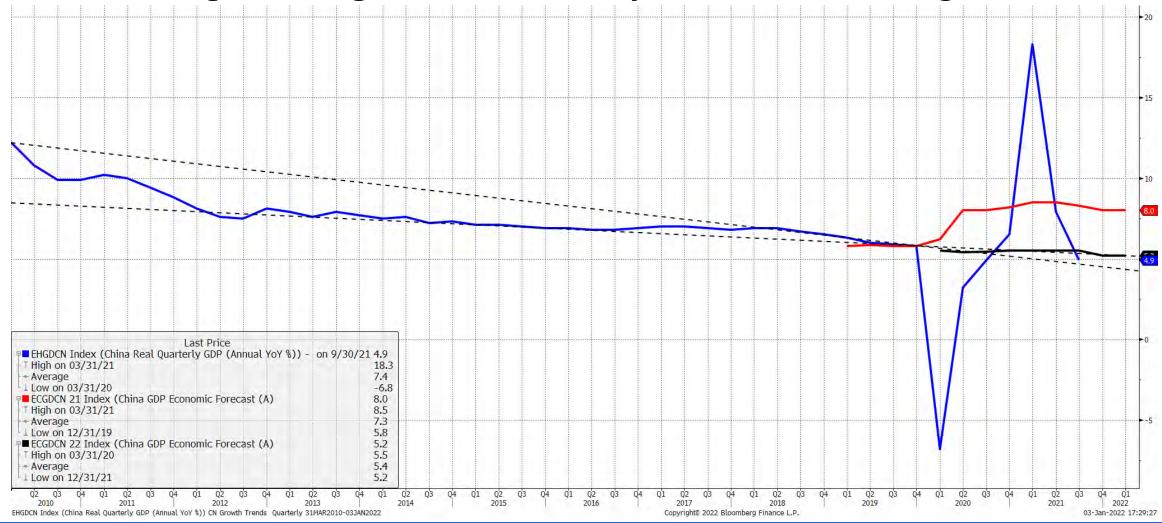


## World Real GDP: Bloomberg Consensus Is Calling For 4.3% Growth In 2022; That Figure Is +320bps North Of The 5yr Trend Line Through 2019



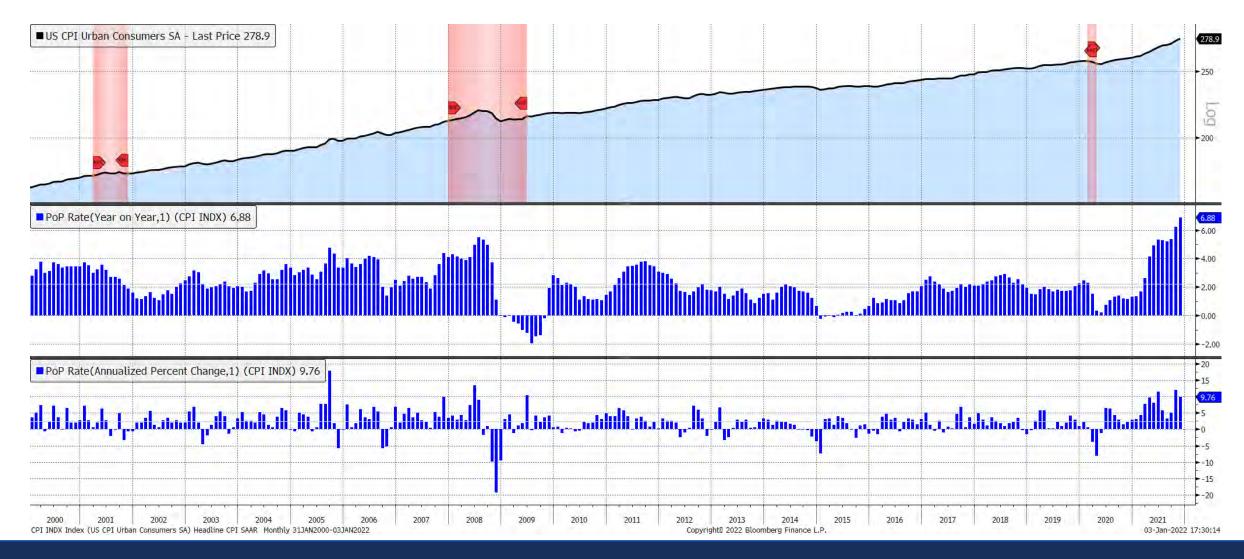


## China Real GDP: Bloomberg Consensus Is Calling For 5.2% Growth In 2022; That Figure Is Right Around The 5yr Trend Line Through 2019



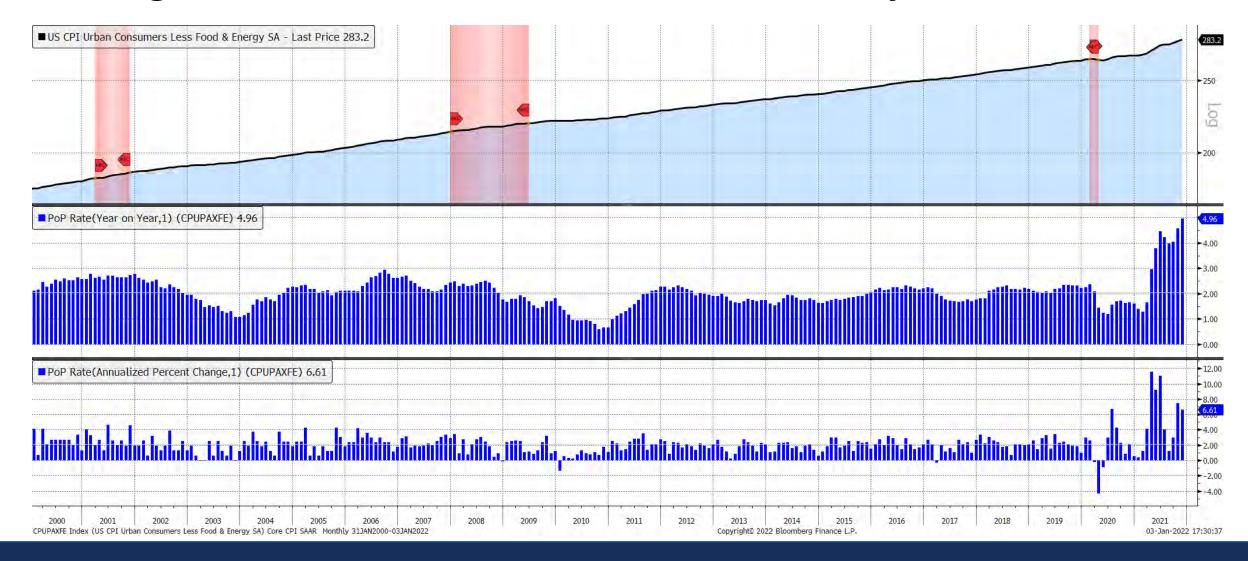


#### The Noise: Headline CPI Momentum Is Running Just Shy Of 10%



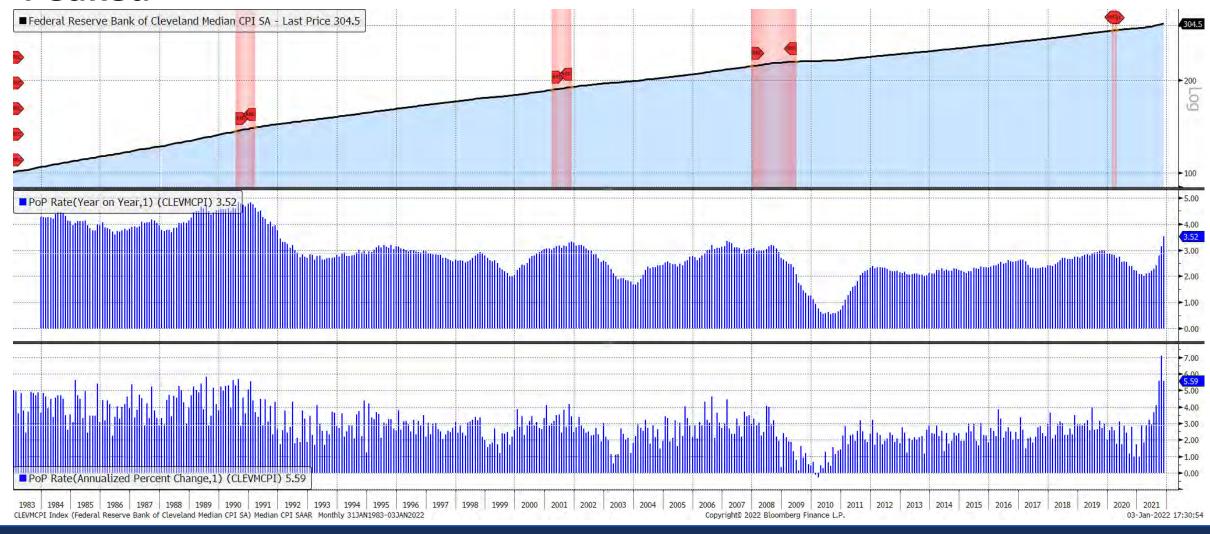


#### The Signal: Core CPI Momentum Has Declined By 40%, However



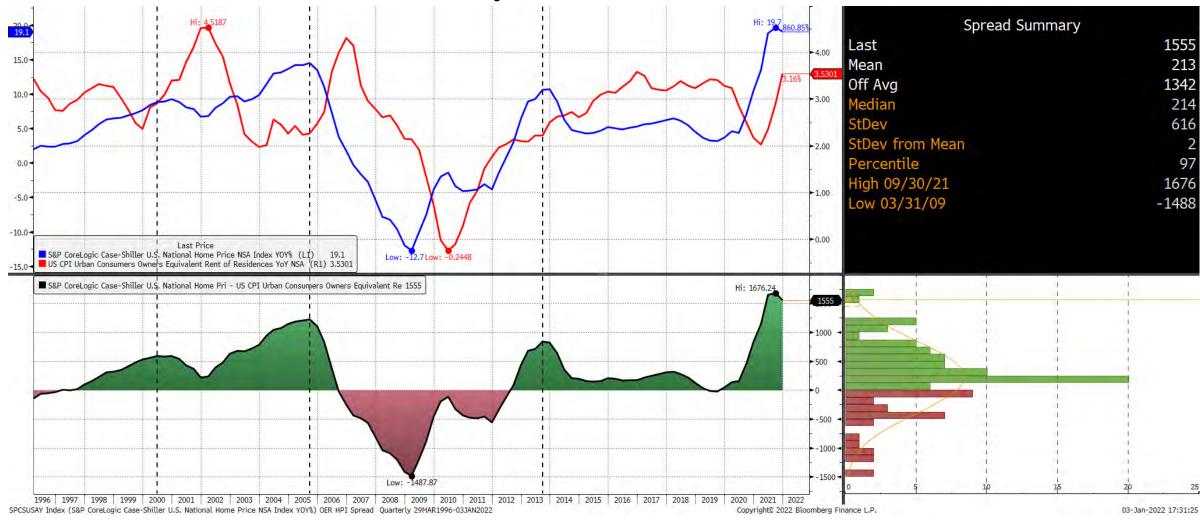


# The Signal: Median CPI Momentum Appears To Have Finally Peaked



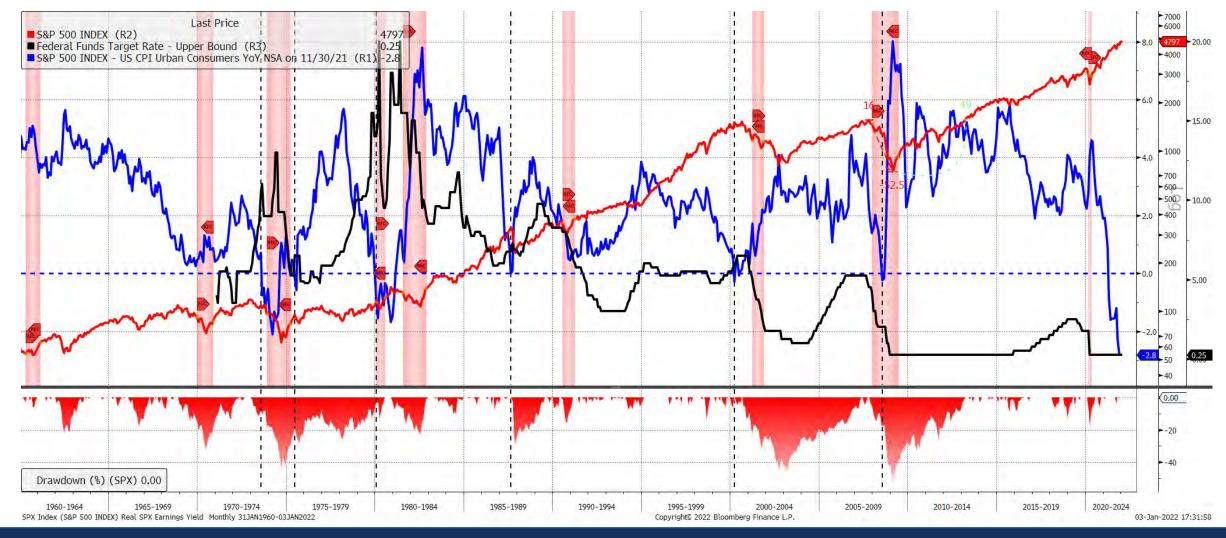


# Even If We Are Proven Right On Our Call For Inflation To Trend Lower Over The NTM, OER Will Keep An Elevated Floor Under Those Metrics



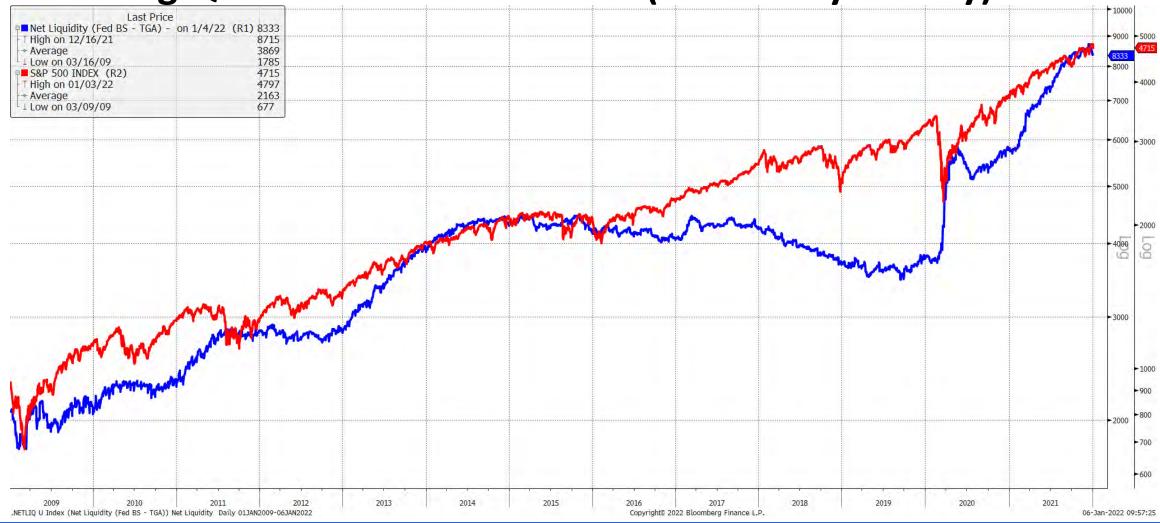


### If Inflation Continues To Surprise To The Upside From Here, Risk Assets May Crash Because The Fed Will Have To Remove The "Punch Bowl" Faster



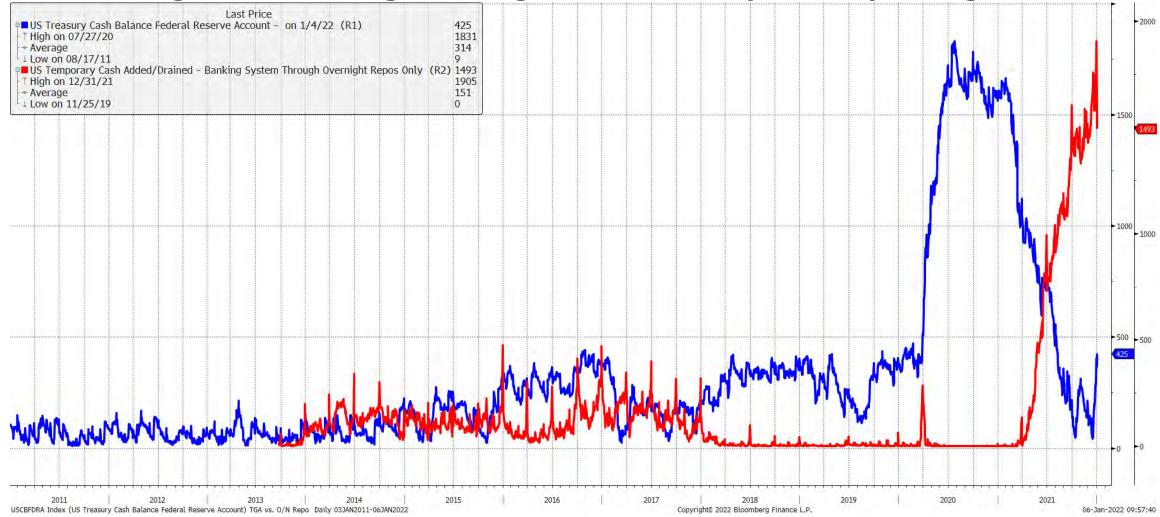


The "Patient" (Read: Risk Assets) Cannot Survive Without Increasing Quantities Of "Medicine" (Read: Easy Money)





# The Assumption That Overnight Repo Will Provide A Liquidity Cushion Against Fed Tightening Is Potentially A Very Dangerous One



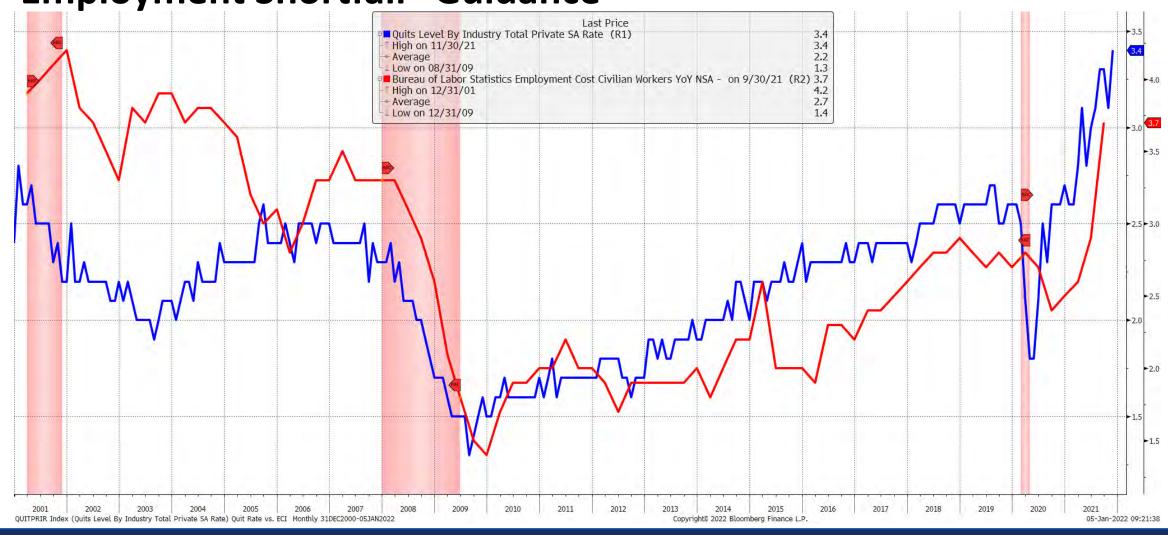


# Liquidity Dynamics On The Mainland Suggest China Is Unlikely To Provide Much Of An Offset To Fed Tightening Over The Medium Term



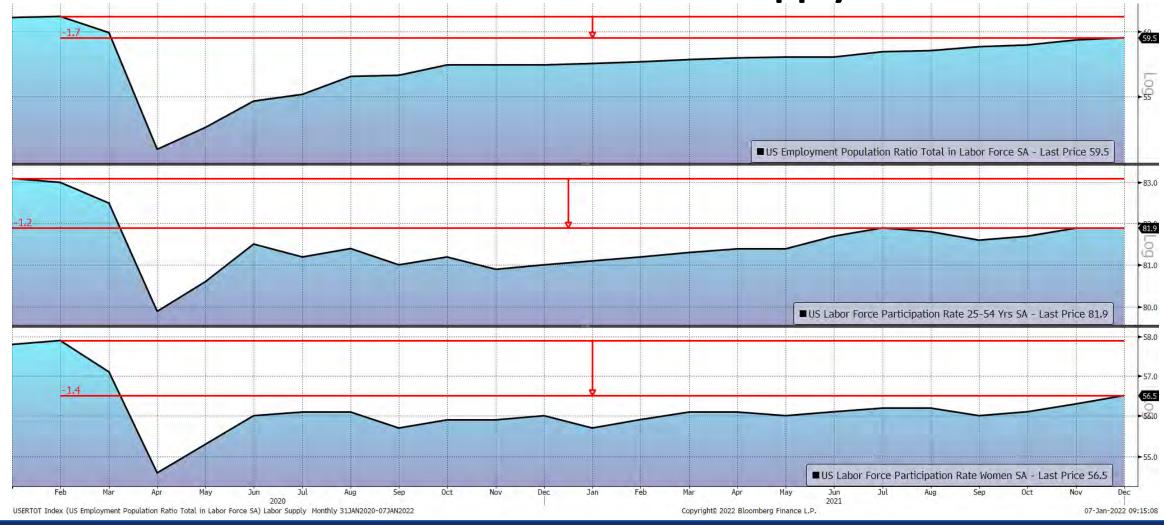


# Wage Increases Are An Upside Inflation Risk Relative To The Fed's "Employment Shortfall" Guidance



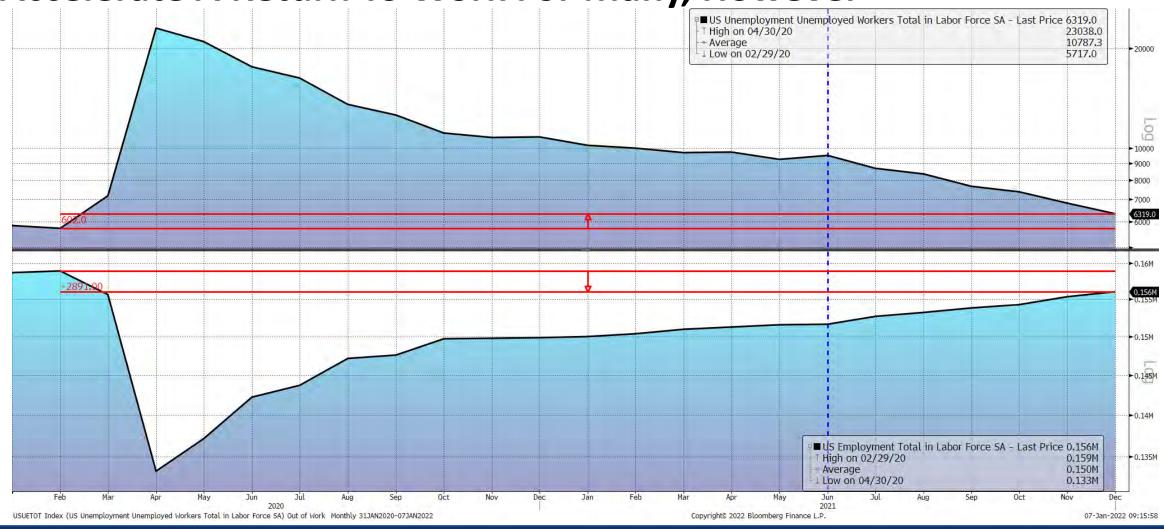


# Wage Growth May Continue To Run Hot Until The US Economy Returns To Pre-Pandemic Levels Of Labor Supply – If Ever



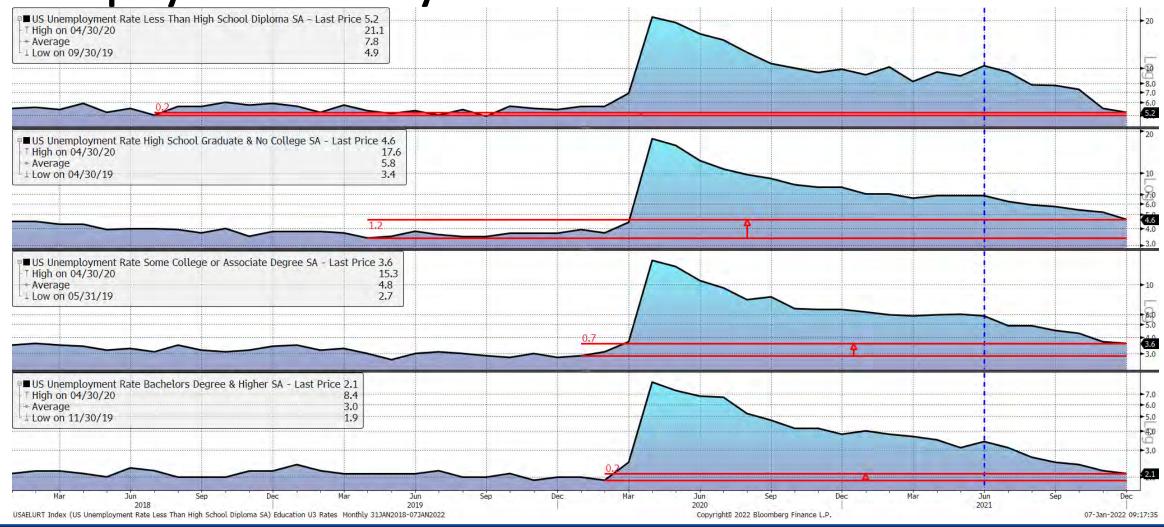


# The Expiration Of Enhanced Unemployment Benefits Did, In Fact, Accelerate A Return To Work For Many, However



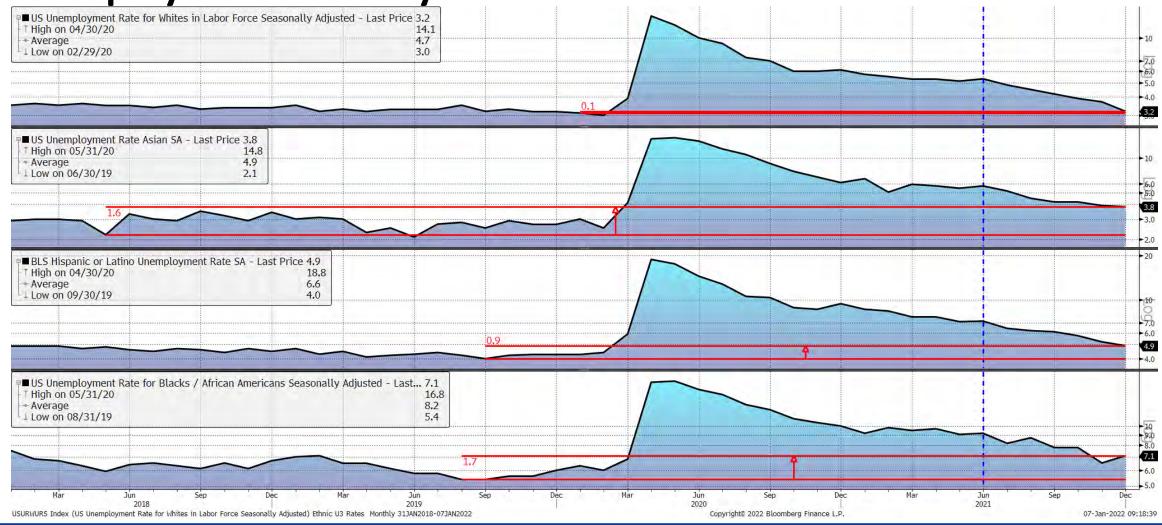


**Employment Gains Have Been Broad Based Of Late: Unemployment Rates By Education Cohort** 



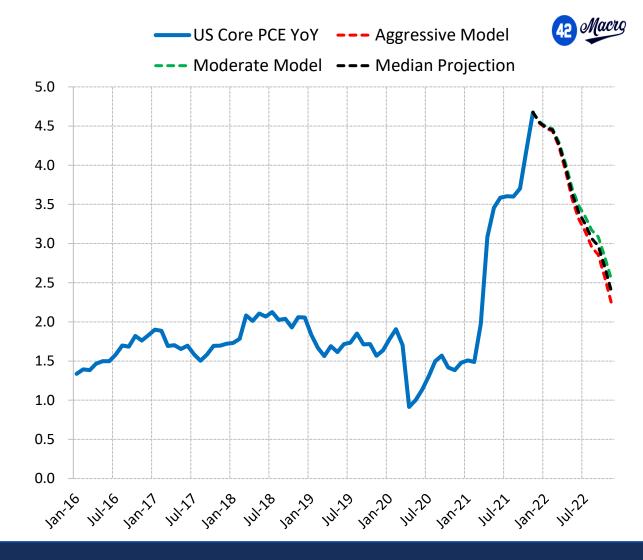


# **Employment Gains Have Been Broad Based Of Late: Unemployment Rates By Ethnic Cohort**





#### **US INFLATION: Core PCE**

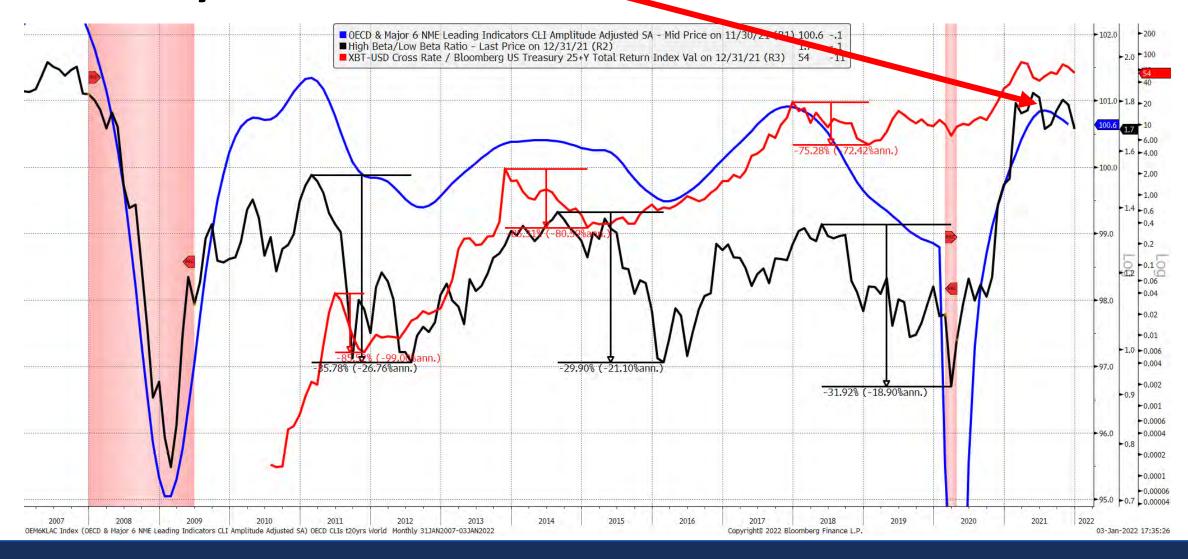


#### **FOMC Meeting Schedule**

- ➤ With respect to the Fed's reaction function, it's not about where inflation is today. What matters is where inflation will be on 3/16/22, 6/15/22, 9/21/22, and 12/14/22 the latter three of which are the dates of the "SEP" FOMC meetings (note: Core PCE is released on a full 1mo lag):
- ➤ Realized or forecasted Core PCE rates as of the following FOMC dates:
  - > Mar-22: 4.5% (Jan)
  - > Jun-22: 4.0% (Apr)
  - > Sep-22: 3.3% (Jul)
  - > Dec-22: 2.7% (Oct)
- ➤ Our analysis suggests March is a "live" meeting, which heightens the probability the FOMC hikes rates four times throughout 2022.

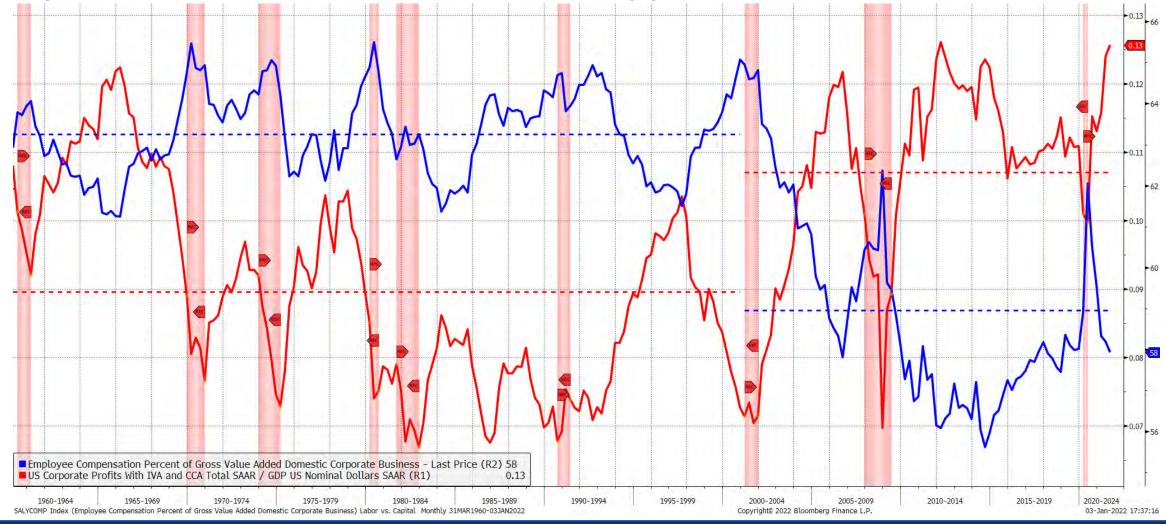


#### Market Cycle: You Are HERE —



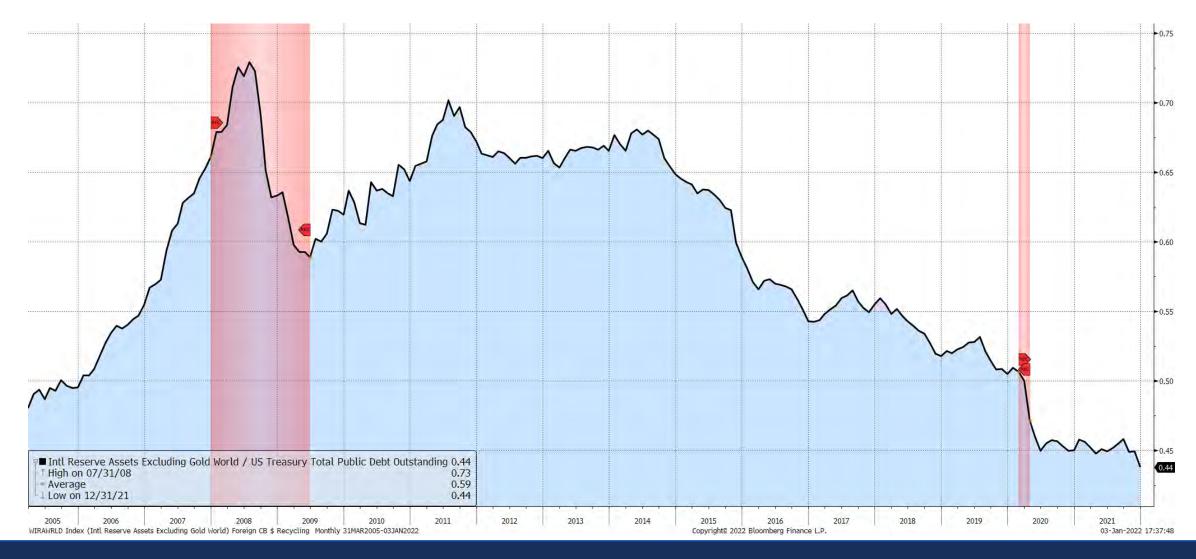


# The Most Important Chart In Macro Proves Why [Inflationary] Populism Has Garnered Bi-Partisan Support In The US In Recent Years



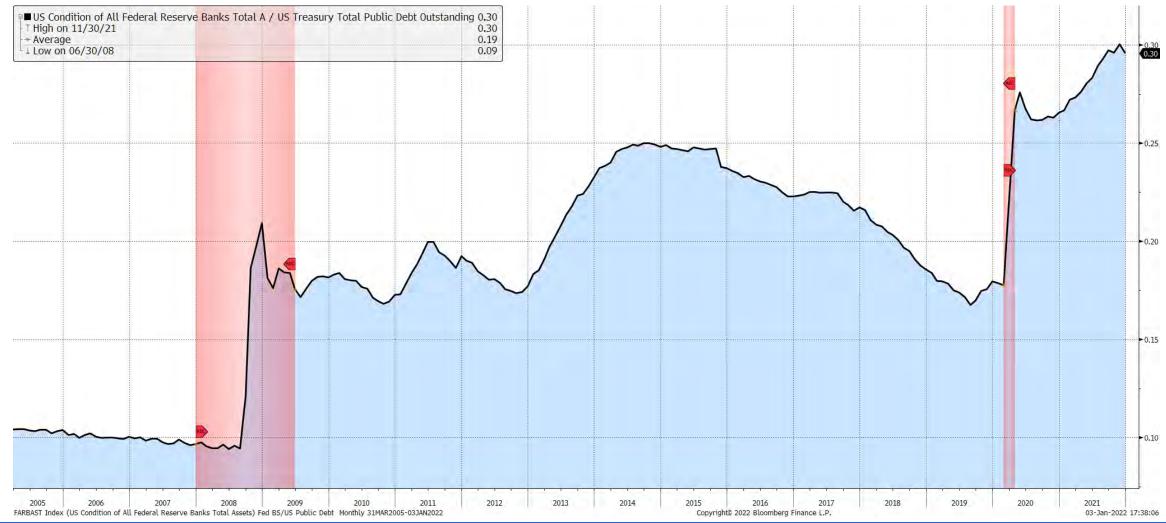


#### Foreign Central Banks Have Eschewed Dollar Recycling Since 2014



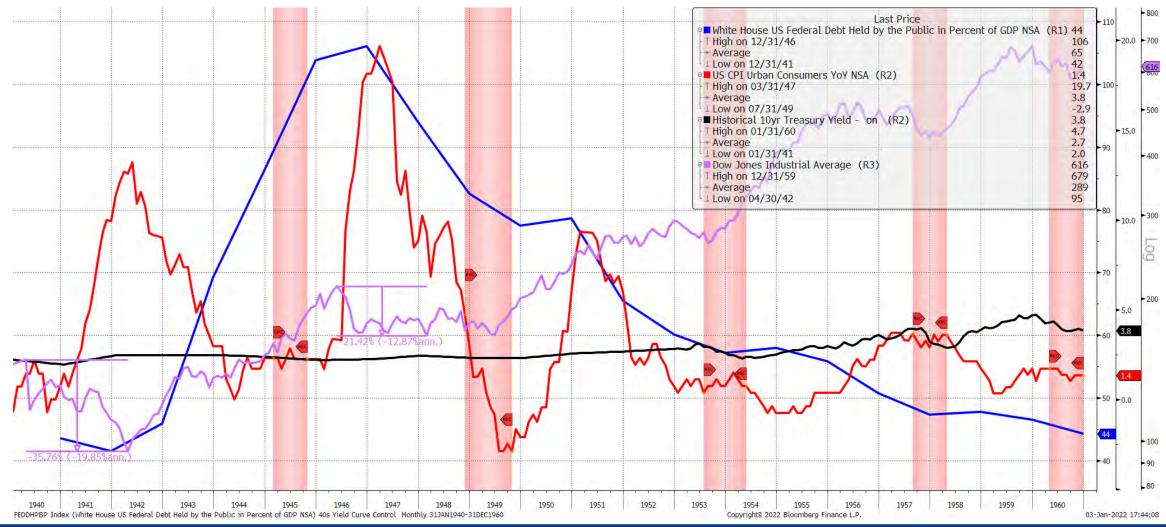


## ... Which Implies The Fed Will Be Increasingly Called Upon To Finance Bloated US Budget Deficits Throughout The Remainder Of This Fourth Turning



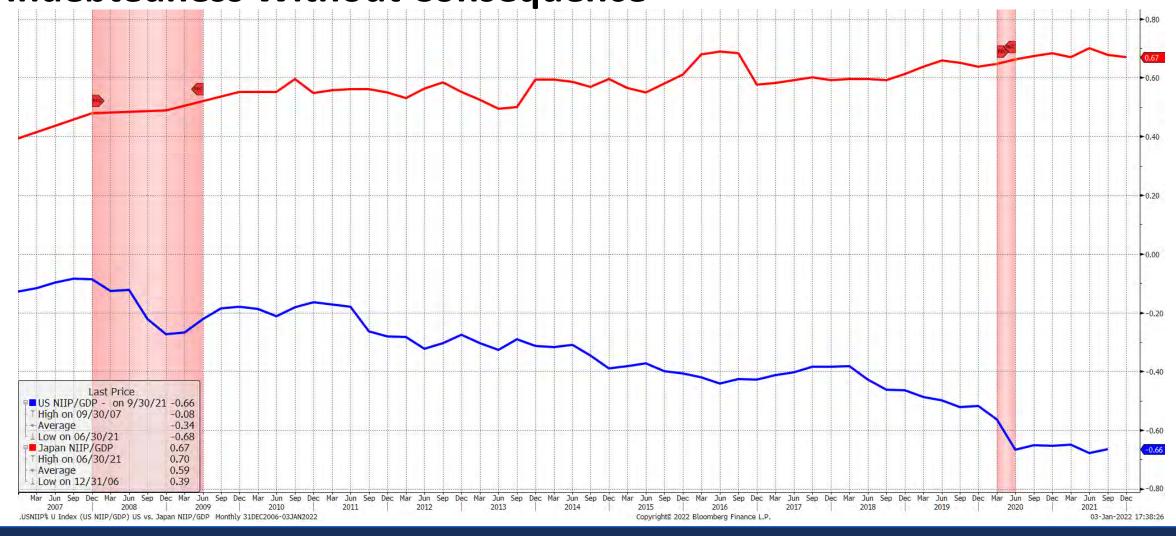


## The US Already Has A Playbook For Deleveraging The Federal Balance Sheet Amid Wartime Conditions: 1940s Yield Curve Control



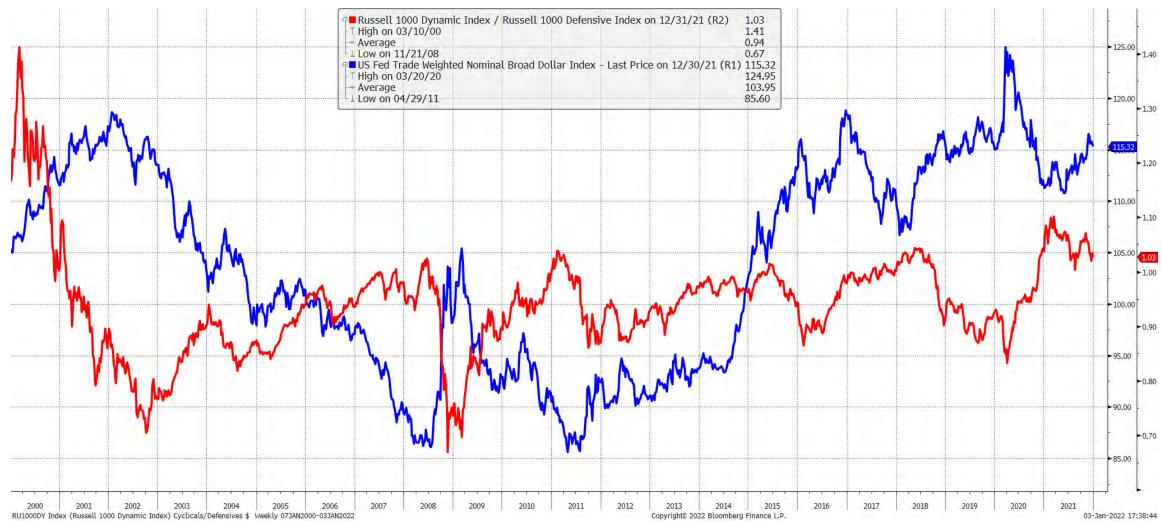


The US Does Not Have The Luxury Of CTRL+P-ing Its Way Out Of Indebtedness Without Consequence



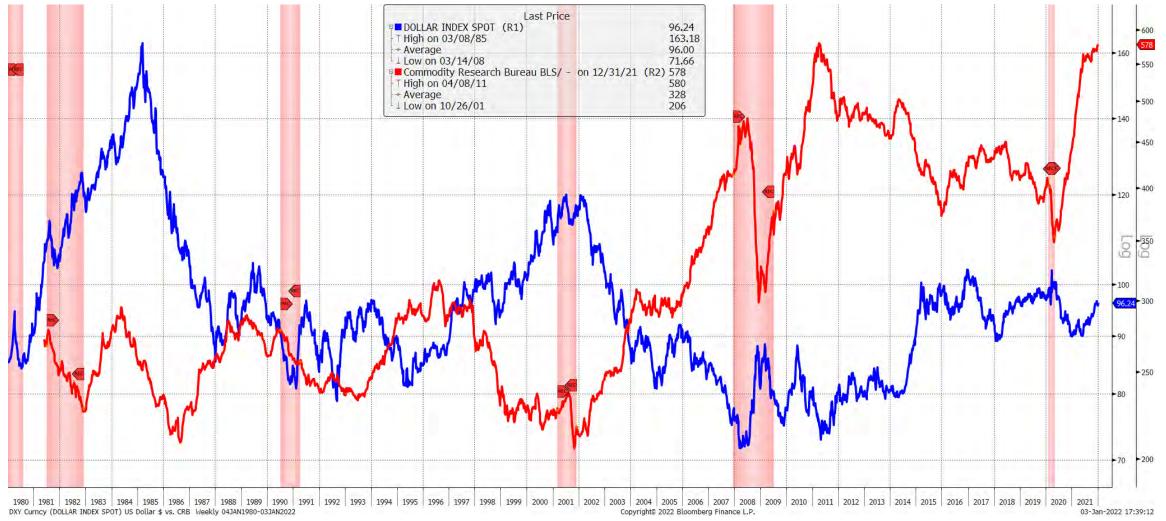


### Ultimately, The US Dollar Will Be Sacrificed As Politicians Find Themselves Increasingly Tethered To The Zeitgeist Of Inequality Throughout This Fourth Turning



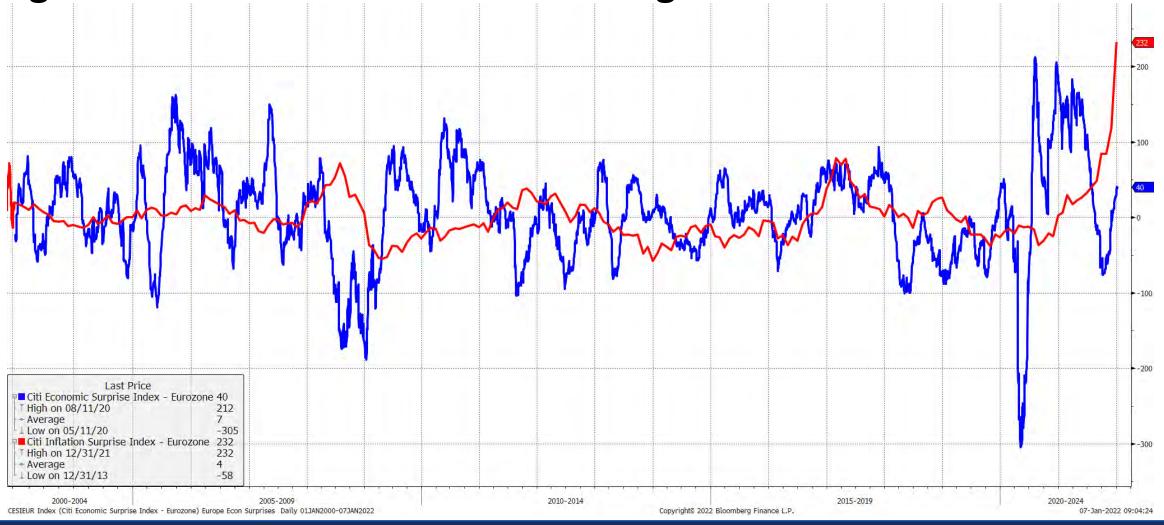


# That Should Keep An Elevated Floor(s) Under Commodity Prices Over The Next Few Election Cycles – Especially Amid The Green Energy Transition





**Europe's Unchecked Inflation Problem Has Very Quickly Become A Big Problem For Investors On The Long Side Of Duration Risk** 



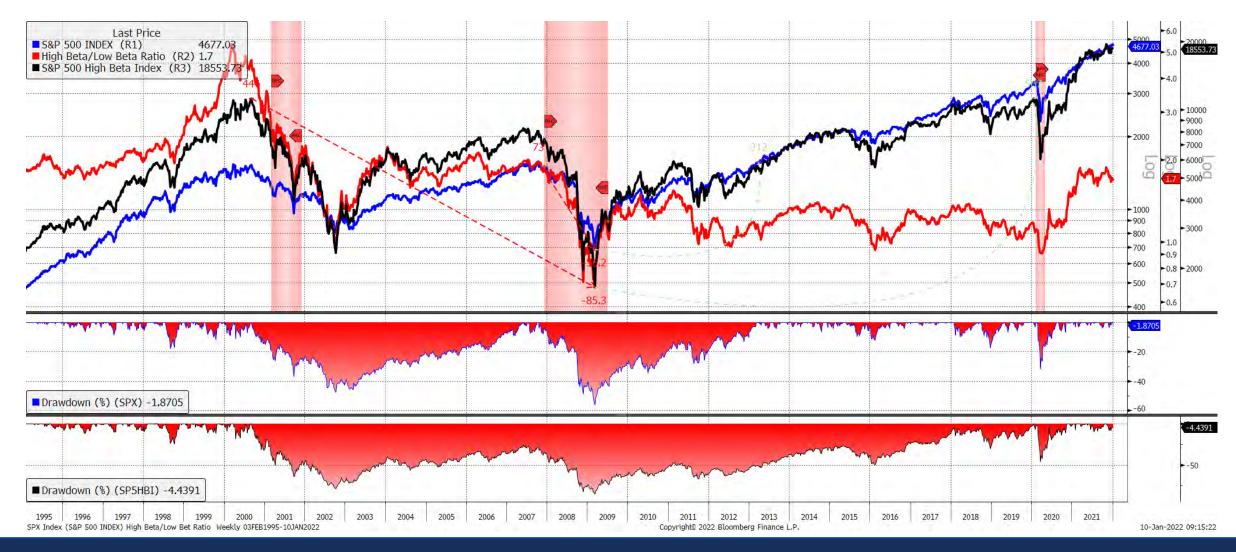


#### **VVIX/VIX Ratio:** ↓ Almost Always = Risk Off



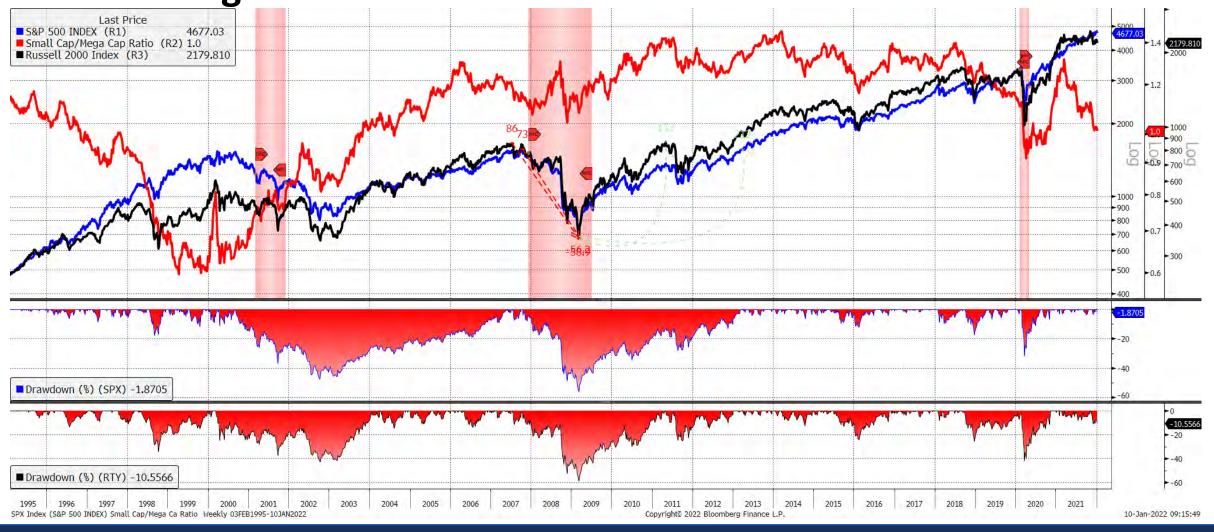


#### **High Beta/Low Beta Ratio:** ↓ Almost Always = Risk Off



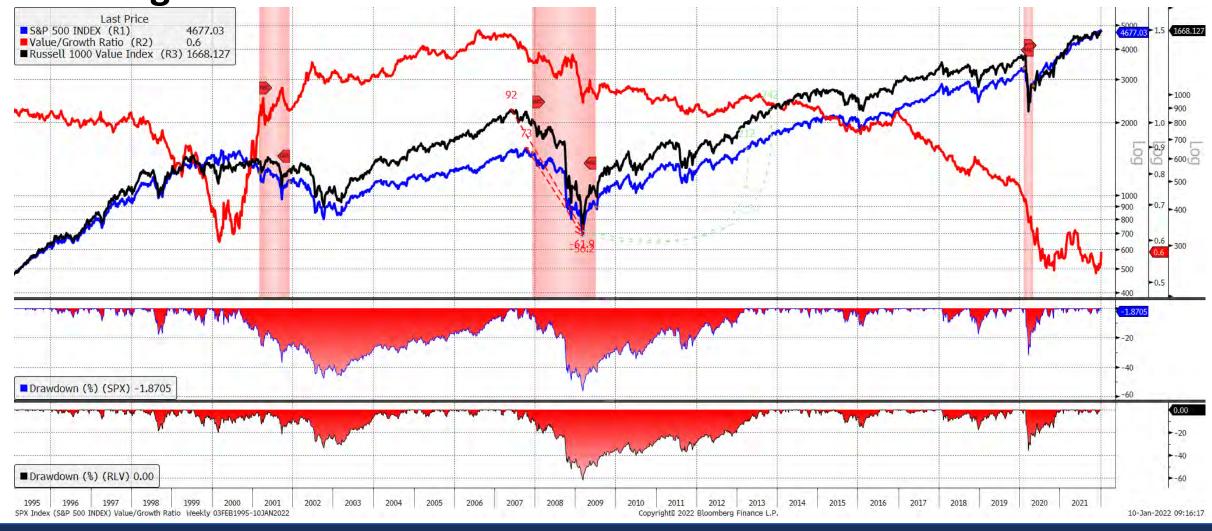


Small Cap/Mega Cap Ratio: ↓ Almost Always = Risk Off, Save For The Bursting Of The Tech Bubble And 1H08





# Value/Growth Ratio: ↓ Almost Always = Risk Off, Save For The Bursting Of The Tech Bubble And 2H08





## Thanks for reviewing. See you next month!

Intro to the 42 Macro Process:

https://bit.ly/3oqS4u2

**Glossary of Terms:** 

https://42macro.com/the-playbook/

**Frequently Asked Questions:** 

https://42macro.com/faq/

