Chief Investment Officer Monthly Report



Board of Investments
July 14, 2021

Jonathan Grabel
Chief Investment Officer

LOS ANGELES COUNTY EMPLOYEES RETIREMENT ASSOCIATION

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Market Environment



Global Market Performance as of June 30, 2021

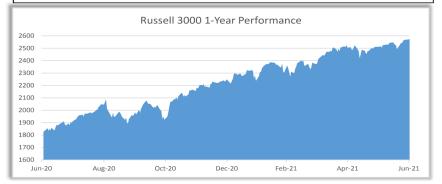
MSCI ACWI Index (Global Equity Market)*

Traili	Trailing Returns (%)			Annualized Returns (%)				
1-month	3-month	YTD	1Y	3Y	5Y	10Y		
1.2	7.2	12.7	40.9	14.2	14.5	9.9		



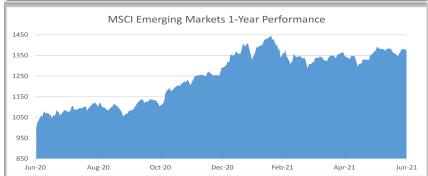
Russell 3000 Index (U.S. Equity Market)

Trailing Returns (%)		Αı	%)				
1-month	3-month	YTD	1Y	3Y	5Y	10Y	
2.5	8.2	15.1	44.2	18.7	17.9	14.7	



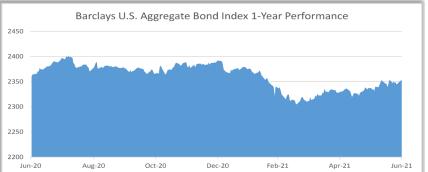
MSCI Emerging Market Index

Trailing Returns (%)			Annualized Returns (%)				
1-month	3-month	YTD	1Y	3Y	5Y	10Y	
0.2	5.0	7.4	40.9	11.3	13.0	4.3	



Barclays U.S. Aggregate Bond Index**

Trail	Trailing Returns (%)			Annualized Returns (%)			
1-month	3-month	YTD	1Y	3Y	5Y	10Y	
0.7	1.8	-1.6	-0.3	5.3	3.0	3.4	

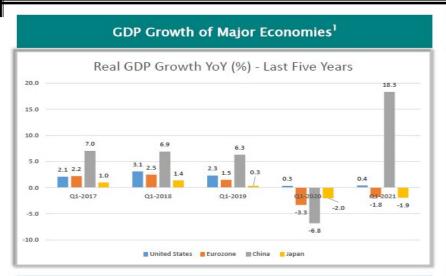


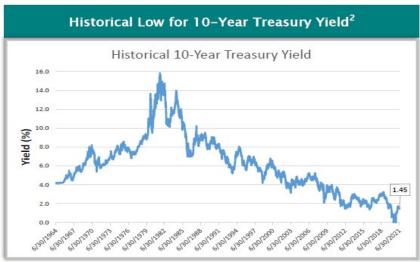
*Global Equity Policy Benchmark - MSCI ACWI IMI Index

**Investment Grade Bonds Policy Benchmark - Barclays U.S. Aggregate Bond Index

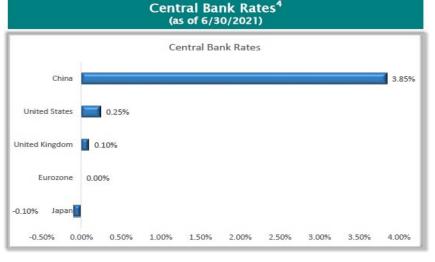
Source: Bloomberg

Key Macro Indicators*







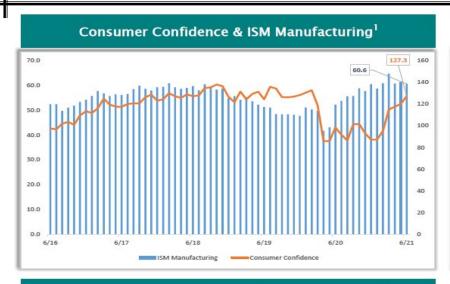


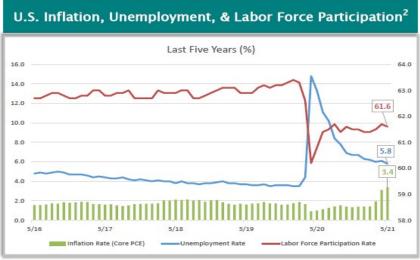
Sources: 1. Bloomberg 3. FactSet 2. St. Louis Federal Reserve 4. FactSet

*The information on the "Key Macro Indicators" charts is the best available data as of 6/30/21 and may not reflect the current market and economic environment.

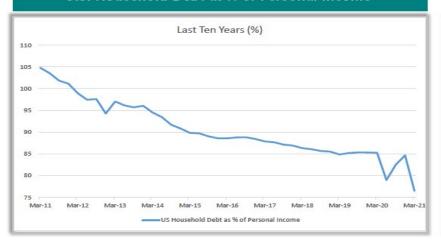


Key Macro Indicators*



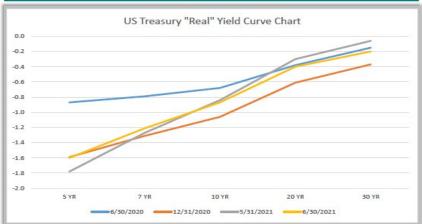






*The information on the "Key Macro Indicators" charts is the best available data as of 6/30/21 and may not reflect the current market and economic environment.

U.S. Treasury "Real" Yield Curve4



Sources: Bloomberg

3. Bloomberg

2. Bloomberg 4. U.S. Treasury



Market Themes and Notable Items to Watch

Recent Themes

- COVID-19
 - More than 182 million cases, 3.9 million deaths, and 3 billion vaccines administered worldwide
 - Emergence and spread of coronavirus variants
 - Over 46.9% of U.S. population has been fully vaccinated against the coronavirus
- The U.S. 10-year treasury yield ended June at 1.45%, up from 0.93% at the end of 2020
- Global equities set new highs in June
- The U.S. Federal Reserve ("Fed") expects strong job creation going into the fall and increased its inflation forecast for 2021 to 3.4% from 2.4%
- The Fed now expects real gross domestic product to grow 7.0% in 2021, compared to a 6.5% forecast from its March meeting

What to Watch

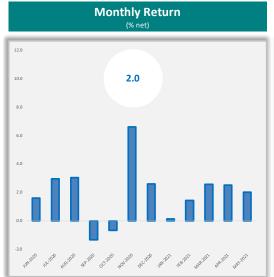
- COVID-19
 - Economic and consumer behavior impacts as vaccination rates increase
- Global GDP growth rate
- Social equity and civil rights initiatives
- Unemployment and consumer spending
- Potential government infrastructure spending
- Inflation pressures and trends
- Geopolitical risks and trade arrangements
- Yield curve and credit spreads
- Central bank activity

Portfolio Performance & Risk Updates



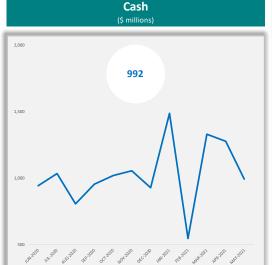
Total Fund Summary

as of May 2021









Market Value¹ % of Final (\$ millions) Total Target² **TOTAL FUND** 70,940 100.0% Growth 36,328 51.2% 47.0% Global Equity 26,071 36.8% 35.0% Private Equity³ 9,632 13.6% 10.0% Opportunistic Real Estate⁴ 626 0.9% 2.0% Credit 7,662 10.8% 12.0% High Yield 2.218 3.1% 3.0% Bank Loans 2.625 3.7% 4.0% Emerging Market Debt 889 1.3% 2.0% Illiquid Credit^{3,4,5} 1,930 2.7% 3.0% Real Assets & Inflation Hedges 11,798 16.6% 17.0% Core & Value Added Real Estate4 4,584 6.5% 7.0% Natural Resources & Commodities 3,112 4.4% 4.0% Infrastructure 2,087 2.9% 3.0% Treasury Inflation-Protected Securities 2,014 2.8% 3.0% **Risk Reduction & Mitigation** 14,642 24.0% 20.6% Investment Grade Bonds 11,231 15.8% 19.0% Diversified Hedge Fund Portfolio5 2,420 3.4% 4.0% Cash 1.4% 1.0% Overlay Composite⁶ 511 0.7% Overlay Composite Mitigation 20.6% Real Assets & Inflation Hedges 16.6% Credit 10.8%

Asset Allocation



Transition balances are included in each subcategory total, if applicable

Final target weights effective as of 10/1/19

Private Equity market values reflect latest available and are adjusted for cash flows

Real Estate market values reflect latest available and are adjusted for cash flows Hedge Fund market values reflect a 1-month lag

Reflects net cash position for overlay investing

Historical Net Performance

as of May 2021

LACERA Pension Fund Market Value Final % of Target1 (\$ millions) **Total Fund** 1 Month 3 Month 3 Year 5 Year 10 Year TOTAL FUND 70.940 100.0% 100.0% 2.0 7.3 23.9 25.8 10.4 10.6 8.4 Total Fund Custom BM 1.3 4.9 21.9 22.0 10.5 10.2 8.5 7% Annual Hurdle Rate 0.57 1.71 6.40 7.00 7.00 7.00 7.00 Functional Composites² 1 Month 3 Month **FYTD** 1 Year GROWTH 36,328 51.2% 47.0% 3.0 11.9 40.4 43.7 Growth Custom BM 1.7 8.3 41.4 40.5 7,662 10.8% 12.0% 1.0 3.2 16.9 19.5 Credit Custom BM 0.7 0.7 8.7 10.1 **REAL ASSETS & INFLATION HEDGES** 11,798 16.6% 17.0% 2.0 6.2 15.4 15.3 Real Assets & Inflation Hedges Custom BM 15.1 15.9 **RISK REDUCTION & MITIGATION** 14,642 20.6% 24.0% 0.3 0.4 1.9 2.8 Risk Reduction & Mitigation Custom BM 0.3 0.0 -0.4 0.1 OVERLAY COMPOSITE 511 0.7%



OPE	3 Ma	aster	Trus	it Fu	nc
		(% ne	t)		

Sub-Trusts	Market Value (\$ millions) ³	Trust Ownership %	Final Target	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year
TOTAL OPEB MASTER TRUST	2,153								
Los Angeles County	2,087	96.9%	_	1.2	6.5	26.9	29.7	10.3	11.2
LACERA	8	0.4%	_	1.2	6.5	26.9	29.7	10.3	11.3
Superior Court	58	2.7%	_	1.2	6.4	26.7	29.5	10.1	_
Functional Composites				1 Month	3 Month	FYTD	1 Year	3 Year	
OPEB Growth	1,085	50.4%	50.0%	1.5	8.6	39.4	43.9	13.8	
Custom OPEB MT Growth Pool	_,			1.5	8.6	39.3	43.7	13.6	
OPEB Credit	419	19.5%	20.0%	0.8	1.2	10.3	11.0	_	
Custom OPEB MT Credit Pool				0.9	1.3	11.4	12.5	_	
OPEB Real Assets & Inflation Hedges	439	20.4%	20.0%	1.4	9.6	28.1	30.3	_	
Custom OPEB MT RA & IH Pool				1.4	9.6	28.2	30.4	_	
OPEB Risk Reduction & Mitigation	208	9.7%	10.0%	0.3	-0.1	-0.8	-0.3	4.6	
Custom OPEB MT RR & M Pool				0.3	-0.1	-0.8	-0.3	4.4	



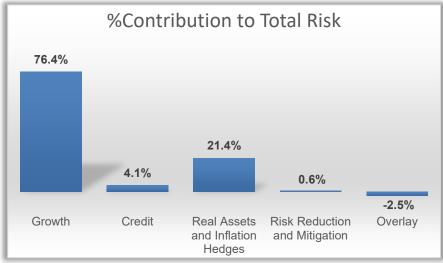


Final target weights effective as of 10/1/19

E. Functional composites were adopted on 4/1/19

Total Fund Forecast Risk*

as of May 2021





	%Weight	% Cont. to Total Risk	Standalone Total Risk	Standalone BMK Risk**
Total Fund			13.6	14.1
Growth	50.9%	76.4%	20.7	20.4
Global Equity	36.8%	52.8%	20.1	20.2
Private Equity	13.2%	22.3%	27.0	27.4
Opportunistic Real Estate	0.9%	1.3%	27.3	20.6
Credit	10.8%	4.1%	5.9	4.9
High Yield Bonds	3.1%	1.3%	7.0	5.9
Bank Loans	3.7%	1.0%	5.5	6.8
Illiquid Credit	2.8%	1.2%	7.7	3.6
Emerging Market Debt	1.3%	0.6%	9.8	9.0
Real Assets & Inflation Hedges	16.9%	21.4%	19.2	29.7
Core & VA Real Estate	6.5%	11.7%	33.4	20.6
Natural Resources & Commodities	4.6%	5.0%	17.7	97.8
Infrastructure	2.9%	4.3%	21.6	21.5
TIPS	2.8%	0.4%	4.8	4.8
Risk Reduction and Mitigation	20.7%	0.6%	3.1	2.9
Investment Grade Bonds	15.8%	0.3%	3.8	3.6
Diversified Hedge Funds	3.4%	0.3%	4.7	0.2
Cash	1.4%	0.0%	0.0	0.2
Overlay	0.8%	-2.5%	-	-

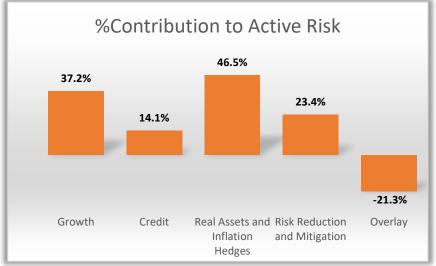
^{*}Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 12/31/2020

SOURCE: MSCI BarraOne

^{**}BMK Risk stands for Benchmark Risk

Total Fund Forecast Active Risk*

as of May 2021





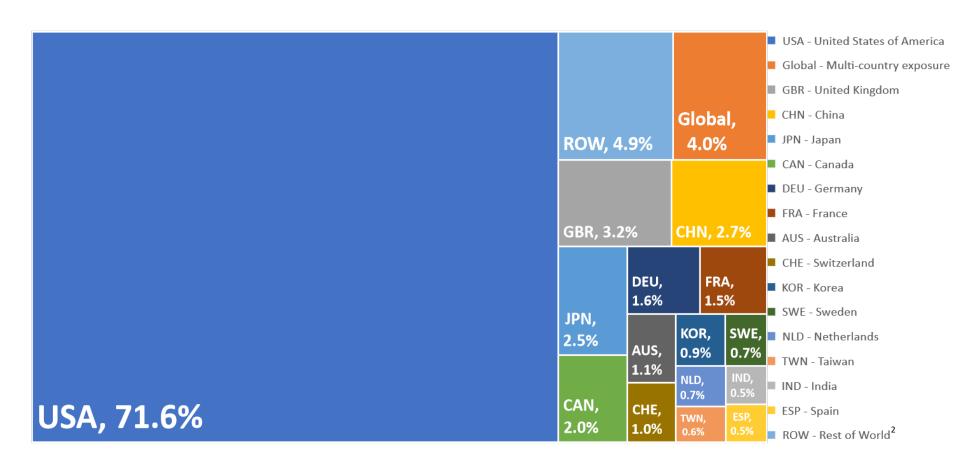
%Weight	Active Weight%	Active Risk	Active Risk Allocation	Active Risk Selection
		1.54	0.33	1.21
50.9%	3.88%	0.57	0.25	0.32
36.8%				
13.2%				
0.9%				
10.8%	-1.20%	0.22	0.08	0.13
3.1%				
3.7%				
2.8%				
1.3%				
16.9%	-0.12%	0.72	0.00	0.72
6.5%				
4.6%				
2.9%				
2.8%				
20.7%	-3.34%	0.36	0.32	0.04
15.8%				
3.4%				
1.4%				
0.8%	0.78%	-0.33	-0.33	0.00
	50.9% 36.8% 13.2% 0.9% 10.8% 3.1% 3.7% 2.8% 1.3% 16.9% 6.5% 4.6% 2.9% 2.8% 20.7% 15.8% 3.4% 1.4%	%Weight Weight% 50.9% 3.88% 36.8% 13.2% 0.9% -1.20% 3.1% -1.20% 3.7% 2.8% 1.3% -0.12% 6.5% 4.6% 2.9% 2.8% 20.7% -3.34% 15.8% 3.4% 1.4% -4.4%	**Weight Weight% Risk 1.54 50.9% 3.88% 0.57 36.8% 13.2% 0.9% 10.8% -1.20% 0.22 3.1% 3.7% 2.8% 1.3% 16.9% -0.12% 0.72 6.5% 4.6% 2.9% 2.8% 20.7% -3.34% 0.36 15.8% 3.4% 1.4%	%Weight Active Weight% Active Risk Allocation 1.54 0.33 50.9% 3.88% 0.57 0.25 36.8% 13.2% 0.9% 0.22 0.08 3.1% 3.7% 0.22 0.08 3.7% 2.8% 0.72 0.00 6.5% 4.6% 0.72 0.00 6.5% 4.6% 0.32 0.32 15.8% 3.4% 1.4% 0.36 0.32

*Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 12/31/2020



Geographic Exposures by AUM* - Total Fund

as of May 2021 ex-overlay



^{*}AUM = assets under management

³ Geographic exposure is based on the domicile country of a given security/asset



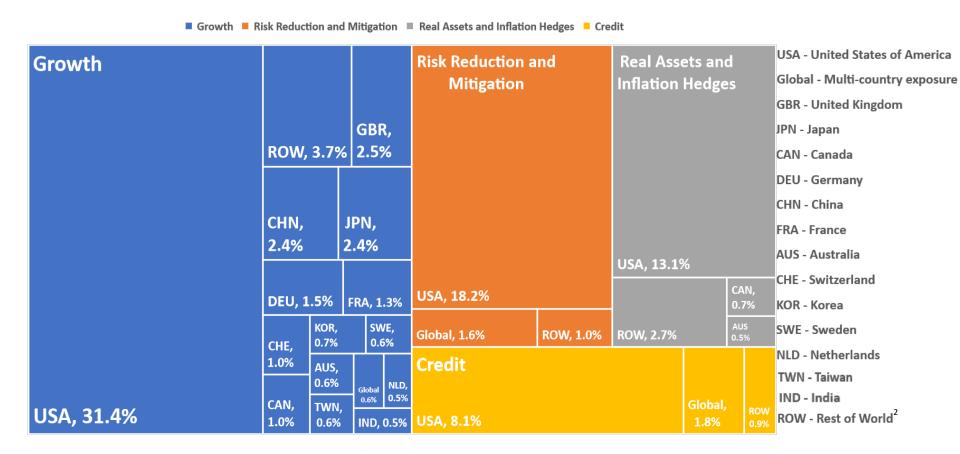
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¹*Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 12/31/2020

² "ROW - Rest of World" is sum of countries with weight below 0.5%

Geographic Exposures by AUM* - Asset Categories

as of May 2021 ex-overlay



^{*}AUM = assets under management

³ Geographic exposure is based on the domicile country of a given security/asset



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¹*Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 12/31/2020

² "ROW - Rest of World" is sum of countries with weight below 0.5%

Change In Fiduciary Net Position





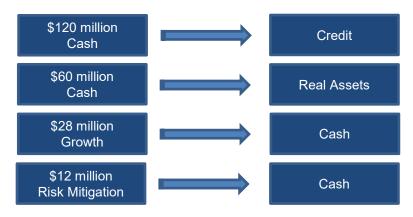
Portfolio Structural Updates



Portfolio Structural Updates

Portfolio Movements

Rebalancing Activity



Hedges and Overlays

Program	May Return	May Gain/Loss	Inception [*] Gain/Loss
Currency Hedge**	-0.6%	\$16.2 Million	\$835.6 Million
Cash/Rebalance Overlay***	-0.2%	-\$7.8 Million	-\$64.0 Million

Current Search Activity

Status of Active Searches – Subject to Change

Name	RFP Issued	Due Diligence	BOI Review
Private Equity Advisor Services	•		Anticipated Summer 2021
Global Equity Emerging Manager Search	•		Anticipated Late 2021
Private Equity Emerging Manager Discretionary Separate Account Search	•		Anticipated Winter 2022

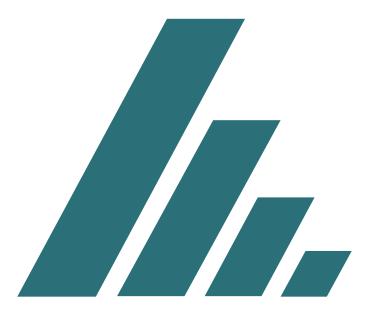
Quiet Period for Search Respondents

Private Equity Advisor Services

- ✓ Albourne America LLC
- ✓ StepStone Global LLC
- ✓ Wilshire Associates Inc.



Key Initiatives and Operational Updates



Notable Initiatives and Operational Updates

Key Initiative Updates

- Ongoing implementation and development of LACERA TIDE initiative
- New Strategic Asset Allocation implantation is ongoing
- Submitted SEC Comment Letter on Climate Risk Disclosures

Completed Actions

- The real estate administrator onboarding process has been completed
- The new performance system onboarding process has been completed
- The new risk system onboarding process has been completed

Operational Updates

- Completed the Annual Contract Compliance exercise for public markets
- Financial Analyst III search
 - Credit

Manager/Consultant Updates

- BlackRock announced that Howard Levkowitz, a co-founder of Tennenbaum, acquired by BlackRock in 2018, will
 retire later this year
- State Street Global Advisors announced that Lynn Blake, CIO, Global Equity Beta Solutions (GEBS) will be retiring on September 30, 2021 and that John Tucker, COO Investments, will succeed Ms. Blake as CIO
- State Street Global Advisors announced a new Global Head of ESG and Sustainable Investing, Karen Wong, who started on June 14, 2021

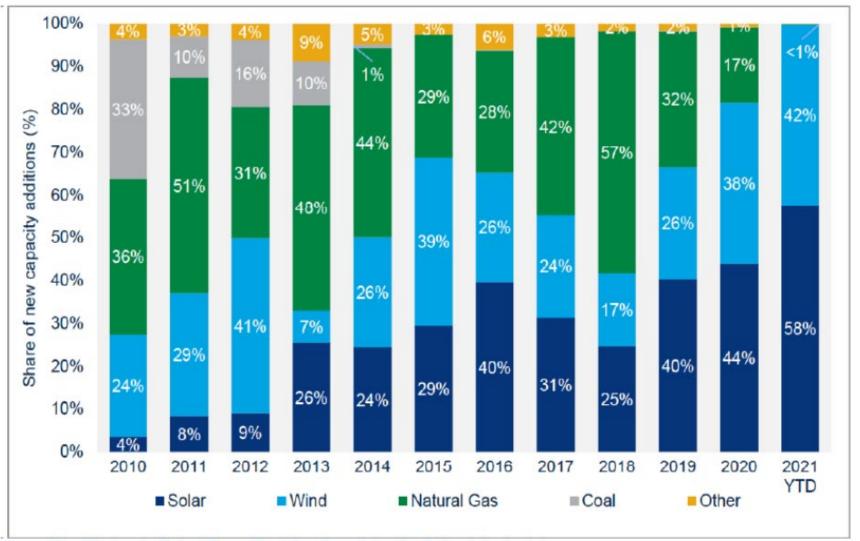


Commentary



Staff Charts of the Month*

New U.S. Electricity-Generating Capacity Additions



Source: Wood Mackenzie, Federal Energy Regulatory Commission (for all other technologies)



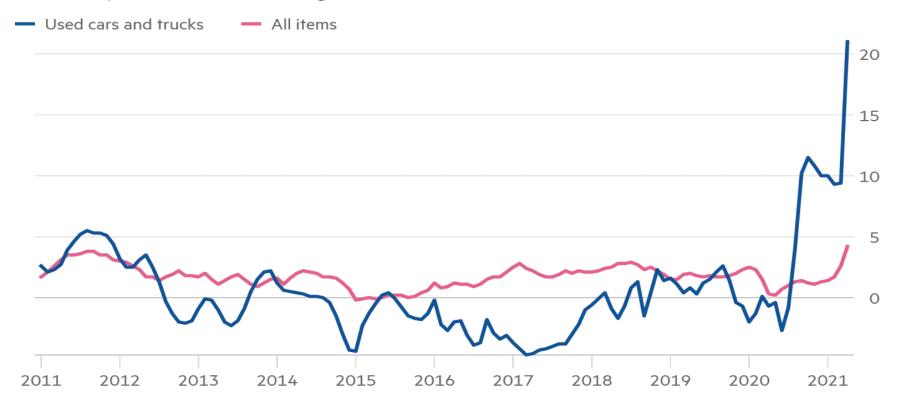
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Staff Charts of the Month*

U.S. Car and Truck Prices – Inflationary Pressures

US car and truck prices are adding to inflationary pressures

Consumer price index (annual change, %)



Seasonally adjusted

Source: US Bureau of Labor Statistics

© FT



Staff Charts of the Month*

U.S. - Federal Reserve Asset Holdings

Shows Fed's asset purchases pre- and post-pandemic

