

State of the markets

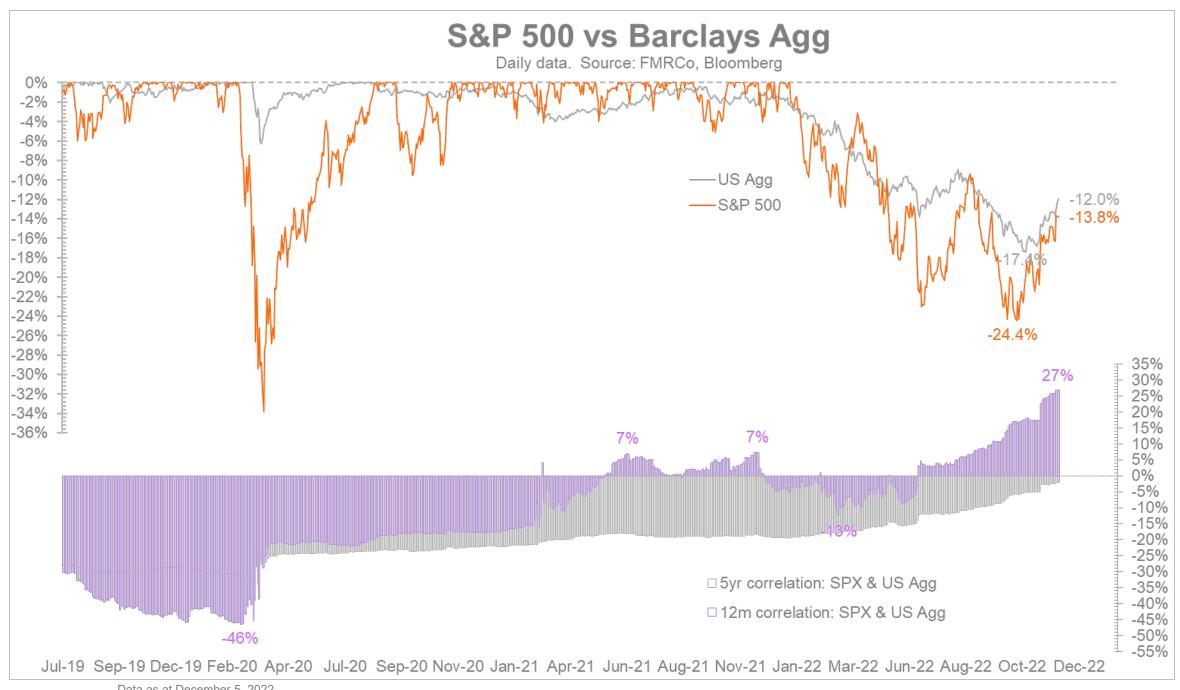
Jurrien Timmer

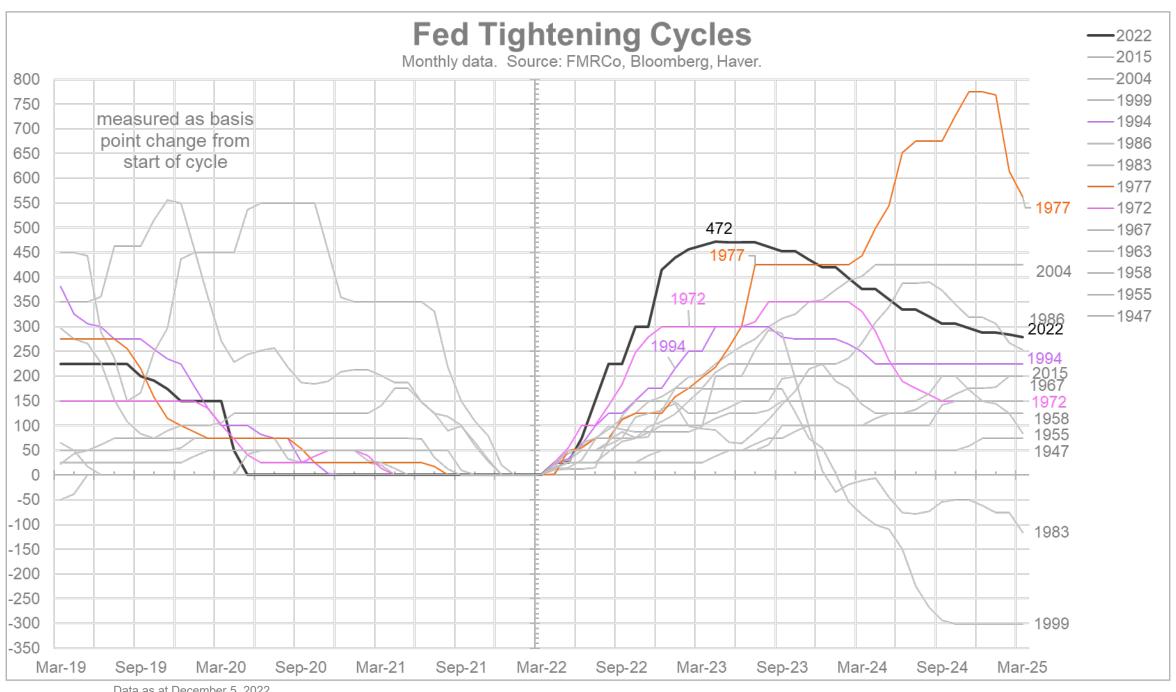
Director, Global Macro

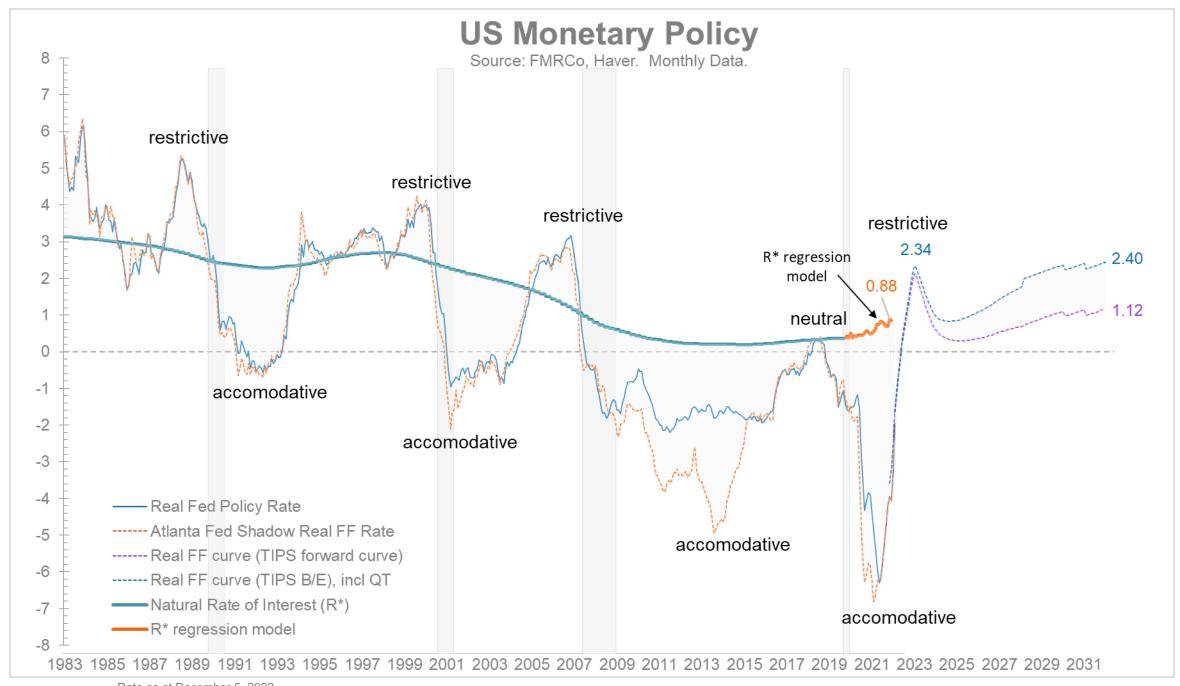
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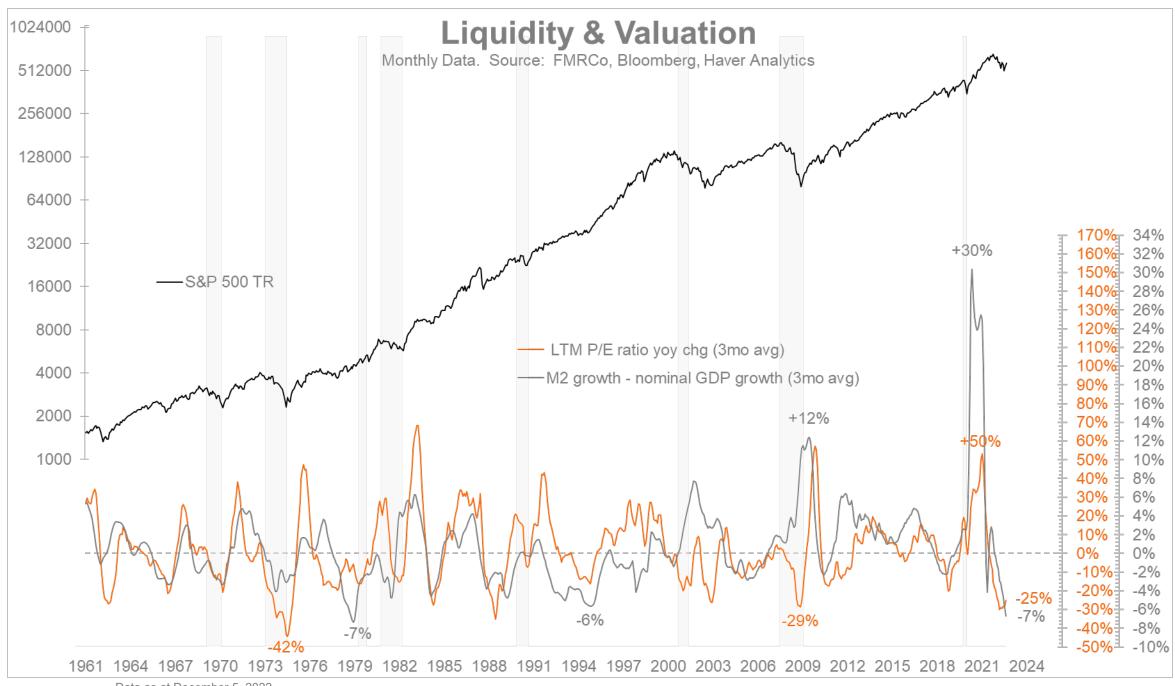
December 2022

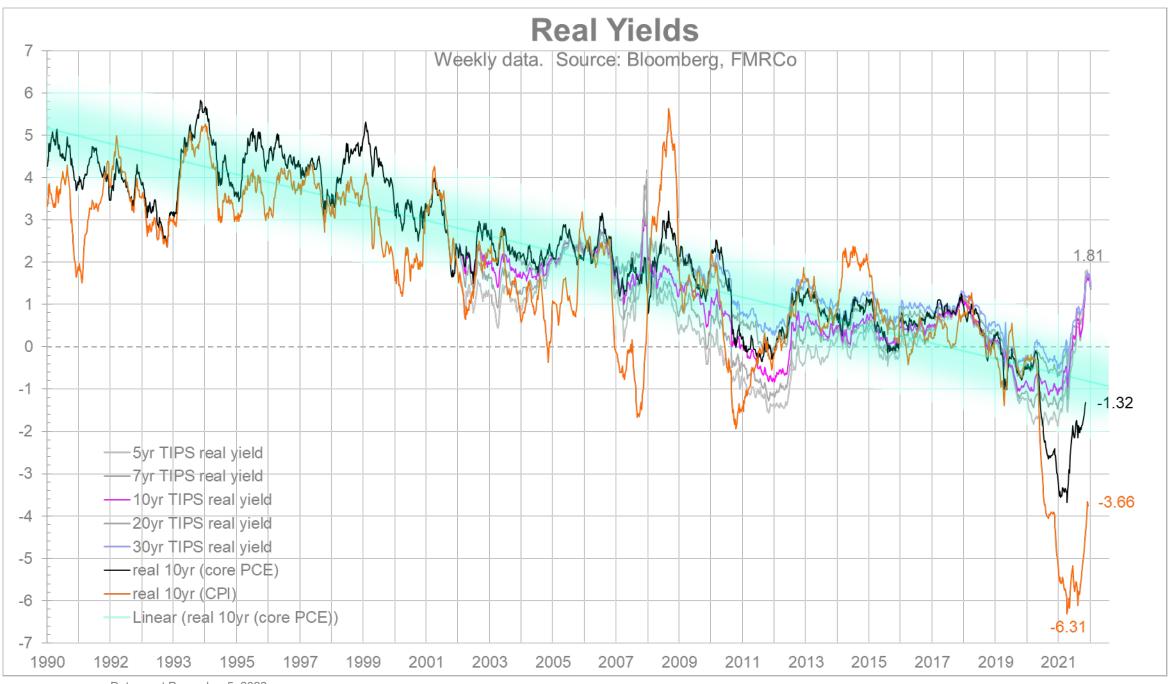
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IG	ВВ	HY	HY	com	EMD	IGB	IGB	EMD	HY	EMD	EAF	LV	HY	HFs	LT	EM	IGB	IGB	gold	HY	LV	EM	LV	gold	IGB	EMD	IGB	IGB	₿	LG	IGB	₿	₿	LG	IGB	HFs	gold	REIT	gold
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L	T E	EMD	IGB	TIPS	sv	LG	LG	TIPS	LV	EM	LG	HFs	REIT	IGB	TIPS	EAF	com	TIPS	TIPS	EM	EUR	EAF	EAF	TIPS	TIPS	gold	EMD	LT	IGB	SPX	SPX	EMD	LV	EM	LT	HY	IGB	com	LV
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S	С	SG	EM	SV	EUR	EMD	SC	EAF	EUR	gold	EM	EMD	EM	EAF	EMD	SV	LG	LG	EAF	com	SG	LG	SG	LV	LG	TIPS	TIPS	EUR	SG	IGB	HFs	TIPS	gold	LT	B	sc	EAF	JPN	EUR
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go	old	com	com	SG	gold	com	SV	com	gold	LG	LT	JPN	JPN	JPN	REIT	REIT	JPN	JPN	SG	TIPS	com	SC	com	SV	SPX	JPN	EAF	com	LT	TIPS	EUR	EM	EAF	gold	EUR	EM	LV	gold	EMD
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A	nnı	ual d	ata s	ince	1984	. YTC	202	2 thro	ough	Sep.	Sour	ce: F	MRC	, Blo	omb	erg, F	laver	, Fac	tset,	MSCI								HFs	com	gold	com	com	EUR	com	HFs	com	REIT	IGB	LT
2 '8	34	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22

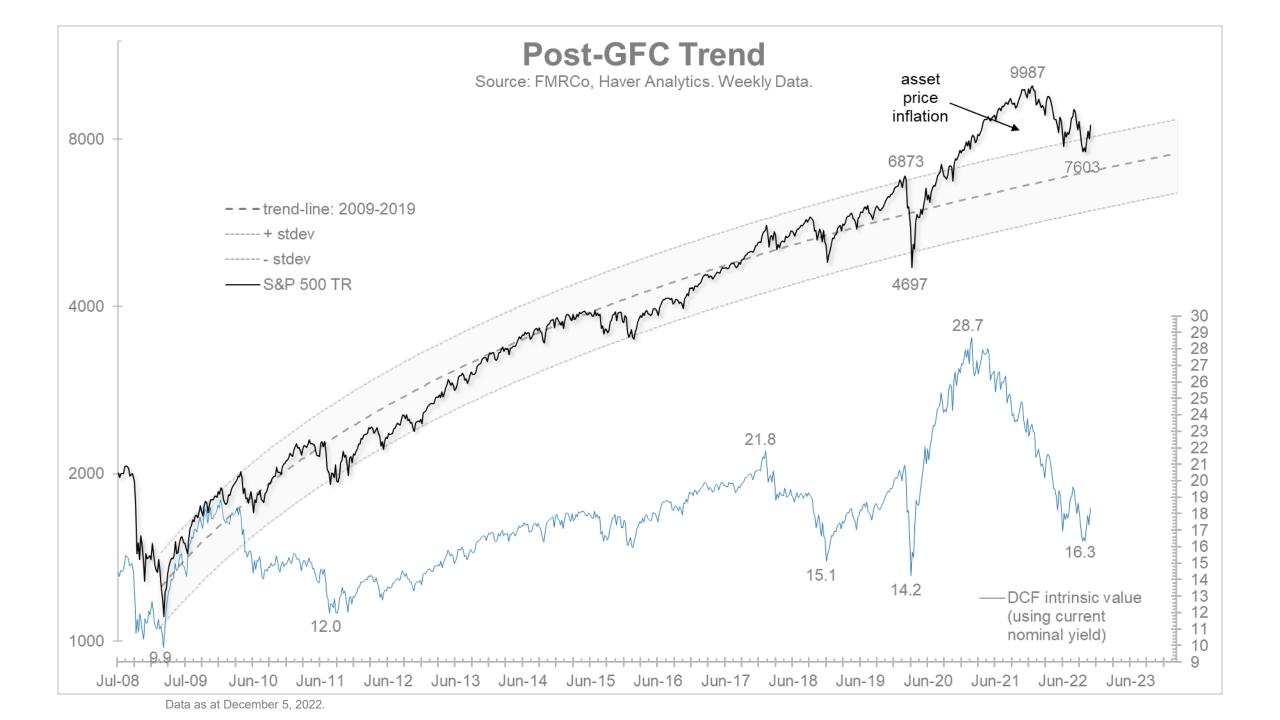




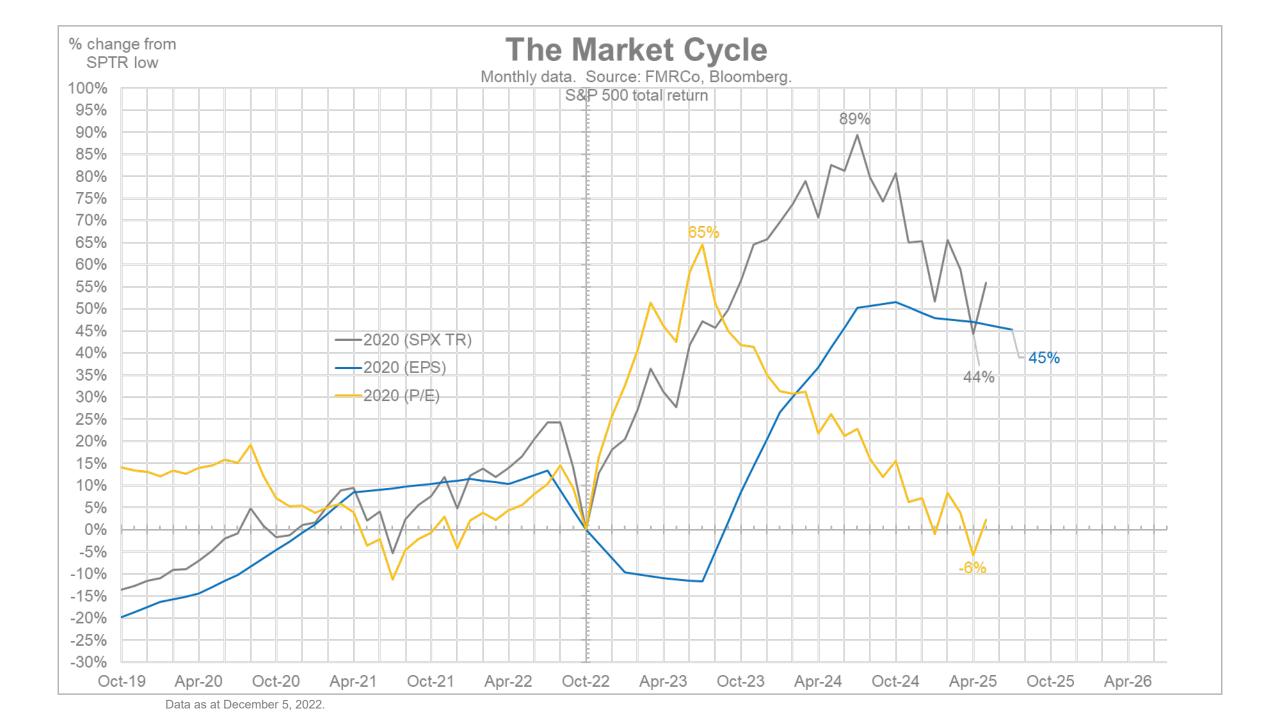


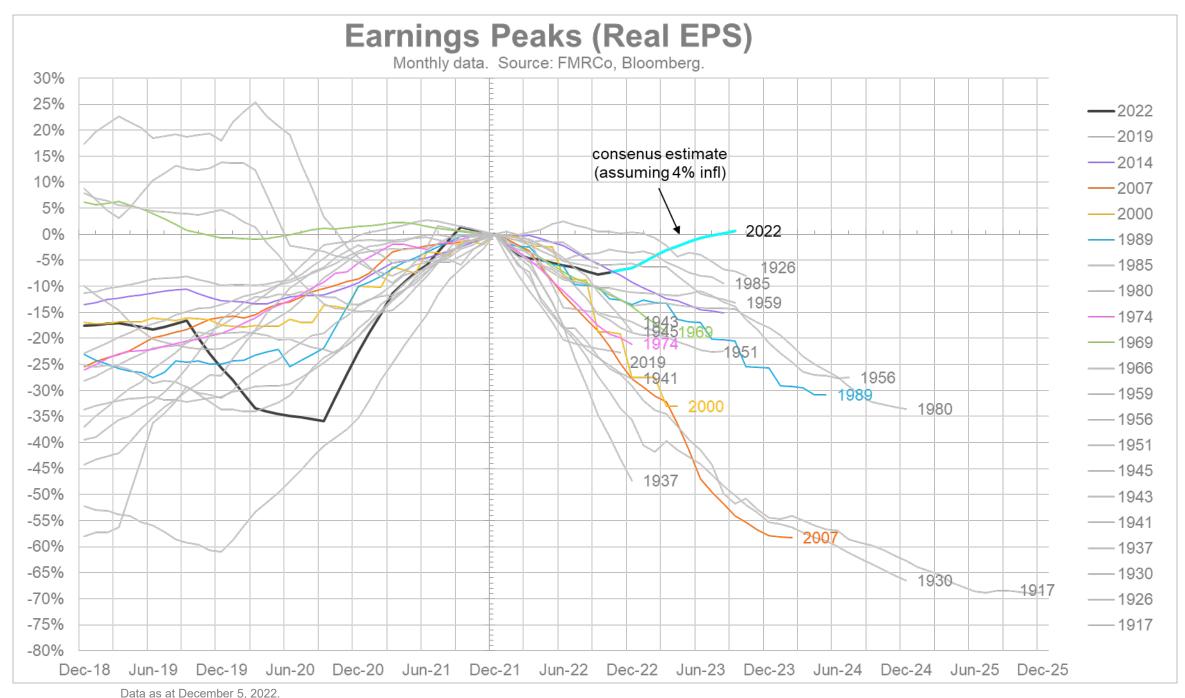


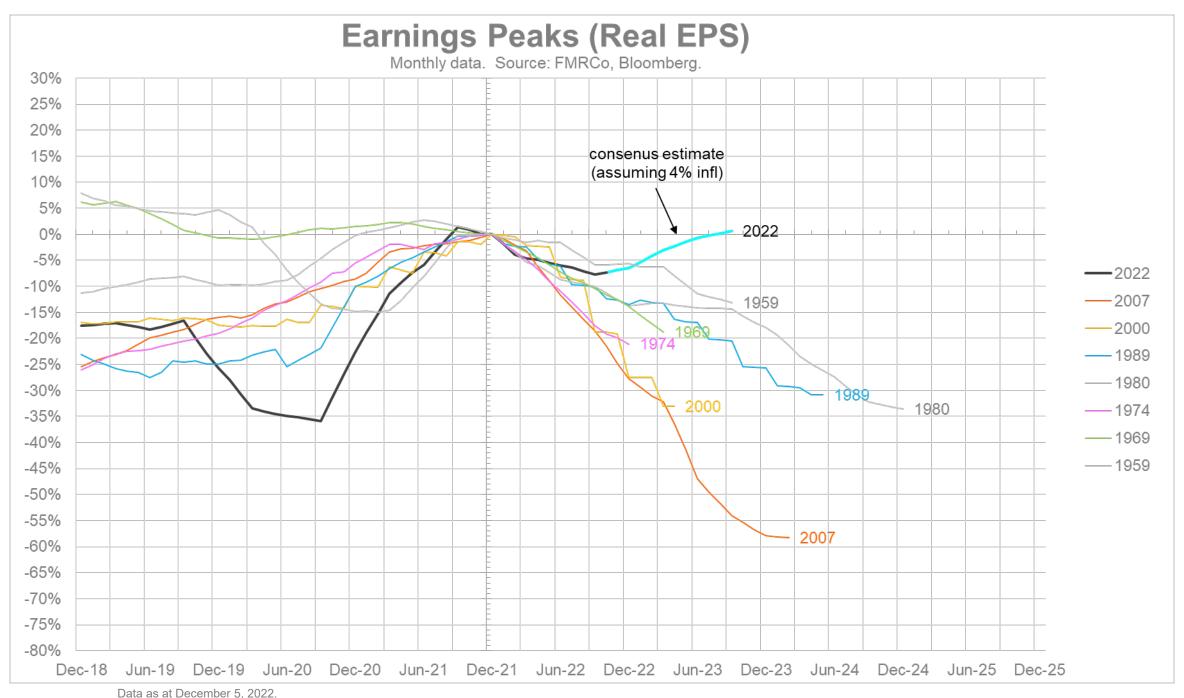


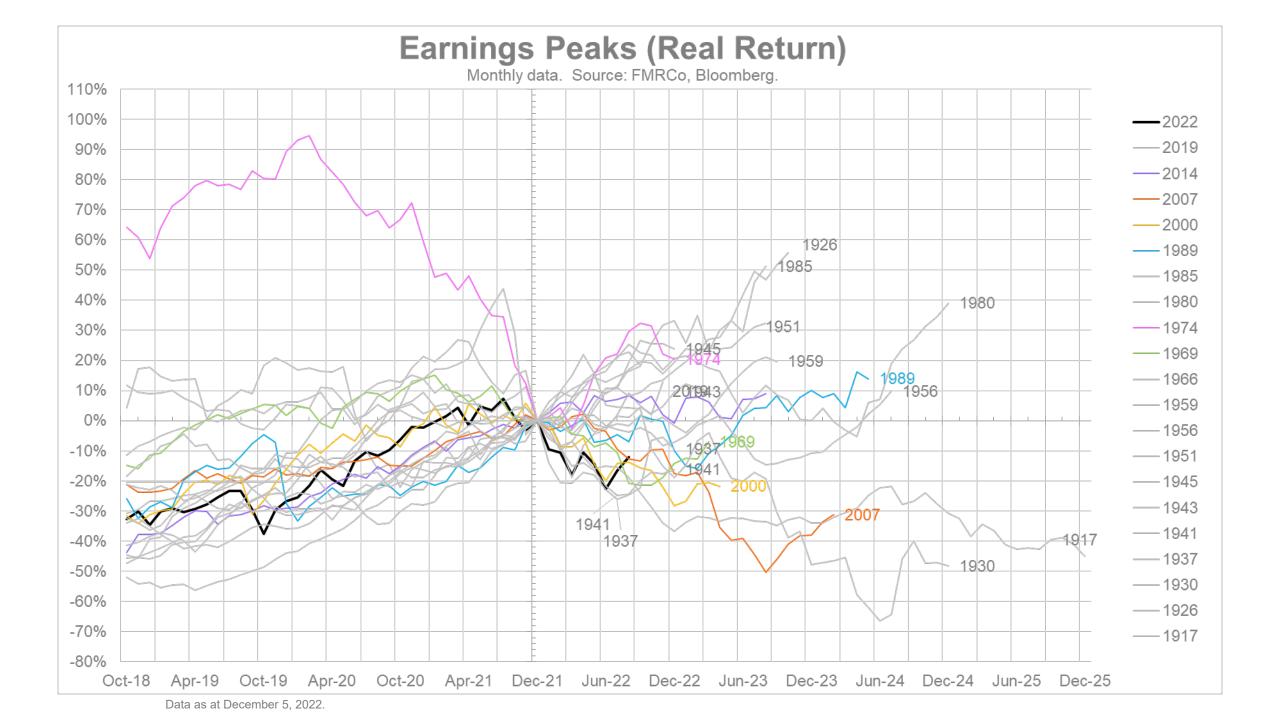


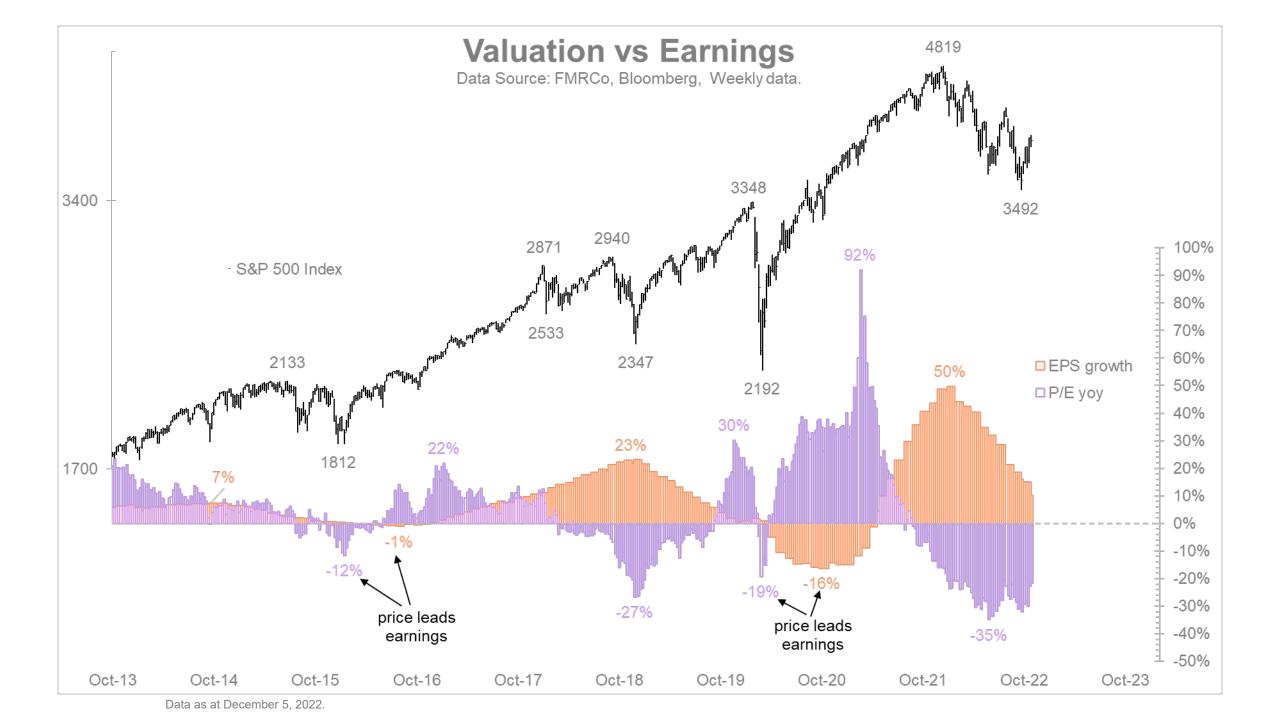
Bear Markets (& Serious Corrections)																	
			Δ nom	Δ real	P/E	P/E		Δ CPI	Δ	Δ nom	Δ real			nom			
top	botom	#mo	SPX	SPX	high		Δ Ρ/Ε	(ann)	Fed	EPS	EPS	next peak	#mo	%chg	prev high	#mo	NBER
Jun-1872	Jun-1877	61	-47%	-31%	12.4	9.4	-24%	-5%	-190	-30%	-13%	Jun-1881	49	+140%	Mar-1980	95	recession
Jun-1881	Jan-1885	44	-36%	-26%	14.1	13.8	-2%	-4%	+120	-37%	-26%	May-1887	28	+39%	Jan-1999	215	recession
May-1887	Aug-1896	113	-35%	-17%	17.2	17.1	-1%	-3%	+260	-39%	-25%	Jun-1901	75	+123%	Jan-1999	143	recession
Jun-1901	Nov-1903	29	-26%	-31%	17.3	11.7	-33%	+3%	+210	+7%	-5%	Jan-1906	27	+57%	May-1905	48	recession
Jan-1906	Nov-1907	22	-37%	-40%	14.6	9.4	-36%	+3%	+220	-8%	-9%	Nov-1909	24	+63%	Nov-1909	46	recession
Nov-1909	Dec-1914	62	-28%	-29%	13.7	14.1	+3%	+0%	-70	-24%	-29%	Nov-1919	60	+31%	Oct-1916	84	recession
Nov-1919	Aug-1921	22	-35%	-36%	10.1	13.6	+35%	+1%	+60	-52%	-87%	Sep-1929	98	+410%	Feb-1925	65	recession
Sep-1929	Jun-1932	33	-87%	-82%	20.5	8.6	-58%	-8%	-330	-73%	-64%	Mar-1937	58	+348%	Dec-1954	308	recession
Mar-1937	Apr-1942	63	-60%	-65%	16.8	7.3	-56%	+2%	-10	-20%	-30%	May-1946	50	+158%	Feb-1946	109	recession
May-1946	Jun-1949	37	-30%	-46%	22.4	5.6	-75%	+9%	+79	+172%	+110%	Aug-1956	87	+271%	May-1950	48	recession
Aug-1956	Oct-1957	15	-23%	-24%	14.3	11.8	-18%	+3%	+98	-8%	-12%	Dec-1961	50	+90%	Sep-1958	26	recession
Dec-1961	Jun-1962	7	-30%	-28%	21.6	14.0	-35%	+1%	+13	+10%	+9%	Feb-1966	44	+84%	Oct-1963	22	recession
Feb-1966	Oct-1966	8	-24%	-24%	18.2	12.3	-33%	+4%	+70	+2%	+0%	Nov-1968	26	+51%	Nov-1968	34	
Nov-1968	May-1970	18	-37%	-41%	18.0	12.3	-32%	+6%	+139	-7%	-12%	Jan-1973	32	+77%	Nov-1972	48	recession
Jan-1973	Oct-1974	21	-50%	-57%	19.9	6.7	-66%	+11%	+205	+27%	+2%	Sep-1976	24	+78%	Dec-1982	121	recession
Sep-1976	Mar-1978	18	-20%	-27%	11.8	8.0	-32%	+7%	+121	+2%	+5%	Nov-1980	33	+64%	Apr-1981	55	recession
Nov-1980	Aug-1982	21	-29%	-36%	9.1	6.3	-31%	+8%	-473	-8%	-20%	Aug-1987	61	+233%	Oct-1982	23	recession
Aug-1987	Oct-1987	2	-36%	-36%	24.0	14.3	-40%	+5%	+12	+11%	+10%	Jul-1990	33	+71%	Jul-1989	23	
Jul-1990	Oct-1990	3	-20%	-22%	16.0	13.4	-16%	+10%	-47	-32%	-35%	Jan-1994	40	+64%	Feb-1991	7	recession
Jan-1994	Nov-1994	9	-8%	-10%	22.8	14.8	-35%	+3%	+272	+41%	+38%	Jul-1998	45	+169%	Feb-1995	13	
Jul-1998	Oct-1998	3	-22%	-23%	27.1	21.1	-22%	+2%	-102	-0%	-1%	Mar-2000	17	+68%	Dec-1998	5	
Mar-2000	Oct-2002	31	-51%	-53%	30.0	16.8	-44%	+2%	-425	-24%	-26%	Oct-2007	61	+105%	Jul-2007	89	recession
Oct-2007	Mar-2009	17	-58%	-58%	17.6	12.0	-32%	+1%	-378	-50%	-51%	May-2011	26	+105%	Apr-2013	67	recession
May-2011	Oct-2011	5	-21%	-22%	16.0	12.2	-24%	+3%	-4	+6%	+6%	Sep-2018	85	+174%	Feb-2012	10	
Sep-2018	Dec-2018	3	-20%	-20%	20.1	15.6	-22%	+0%	+24	+8%	+8%	Feb-2020	14	+45%	Apr-2019	7	
Feb-2020	Mar-2020	1	-35%	-35%	21.9	14.9	-32%	-3%	-124	-17%	-17%	Jan-2022	22	+120%	Aug-2020	6	recession
Jan-2022	?	9	-28%	-31%	24.9	16.9	-32%	+7%	+372	+7%	+1%						
median - all cycles			-33%	-31%	17.5	12.3	-32%	+3%	+19	-8%	-12%		42	+87%		48	
median - re	ecession	22	-35%	-36%	17.0	11.9	-32%	+3%	+42	-18%	-19%		46	+97%		60	
median - n	on-recessi	4	-22%	-22%	21.4	14.6	-28%	+3%	+18	+7%	+7%		30	+70%		11	
* ∆ CPI is an	nualized		* ∆ SPX	is price-c	only	* ∆ Fed	is nomi	nal rate i	n bps								

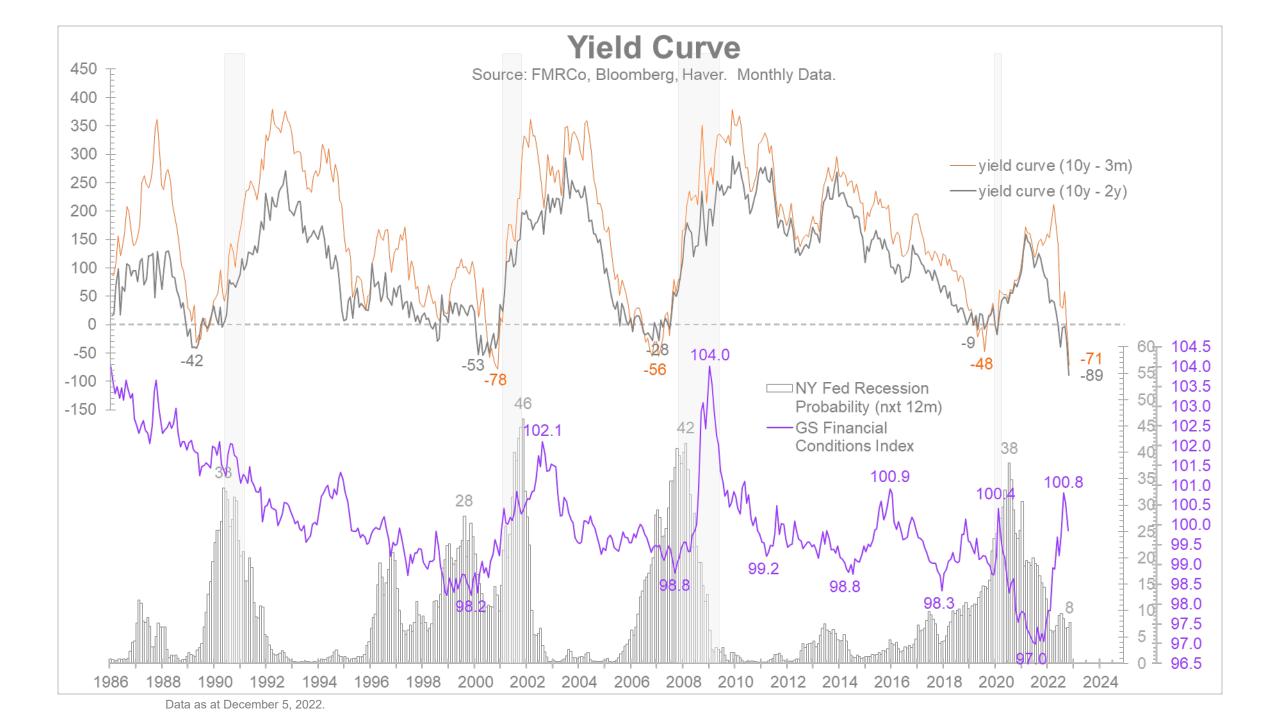


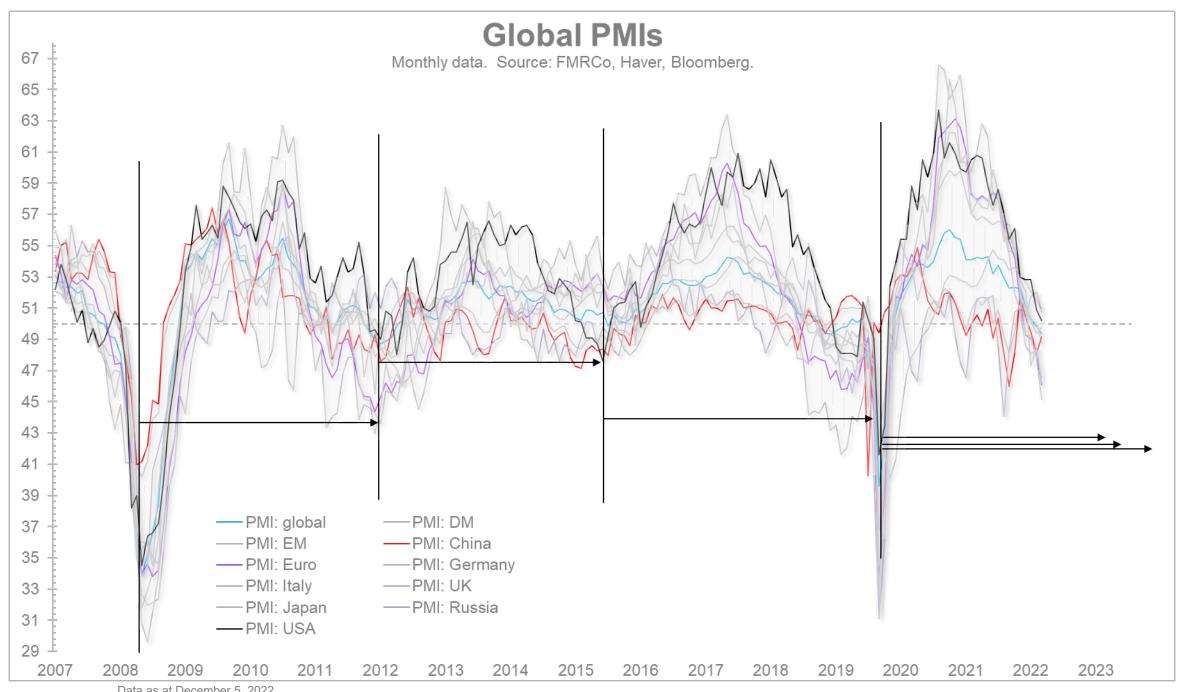


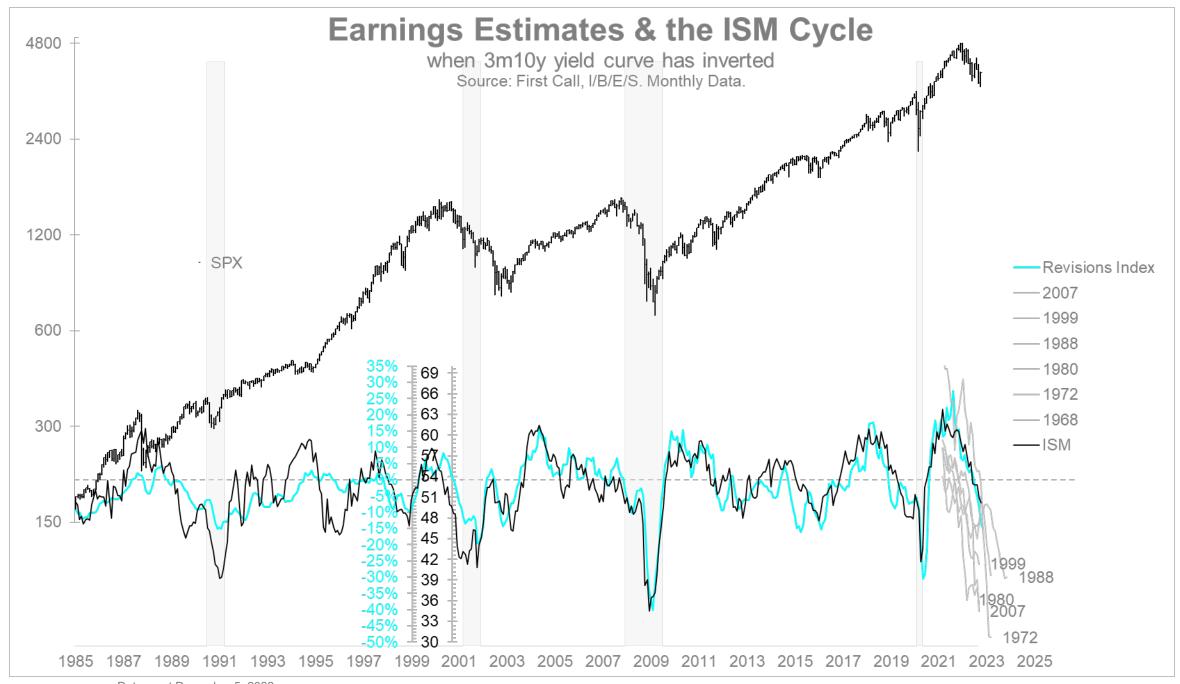


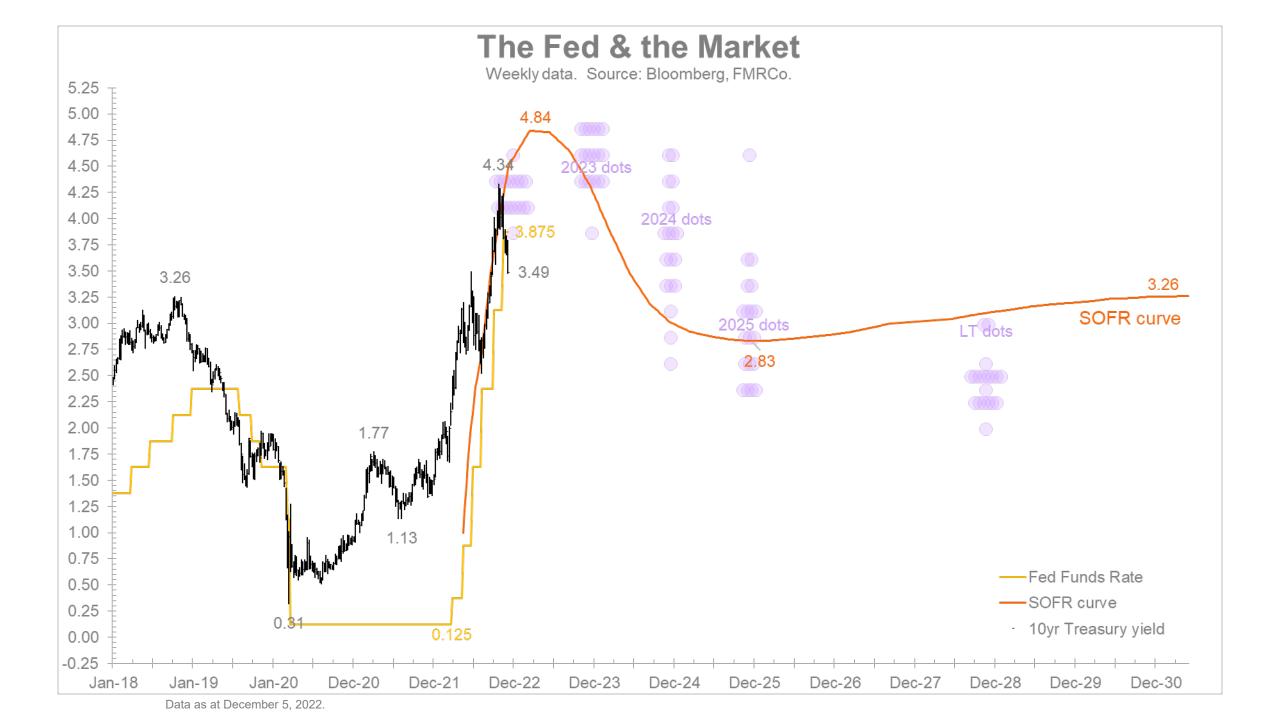


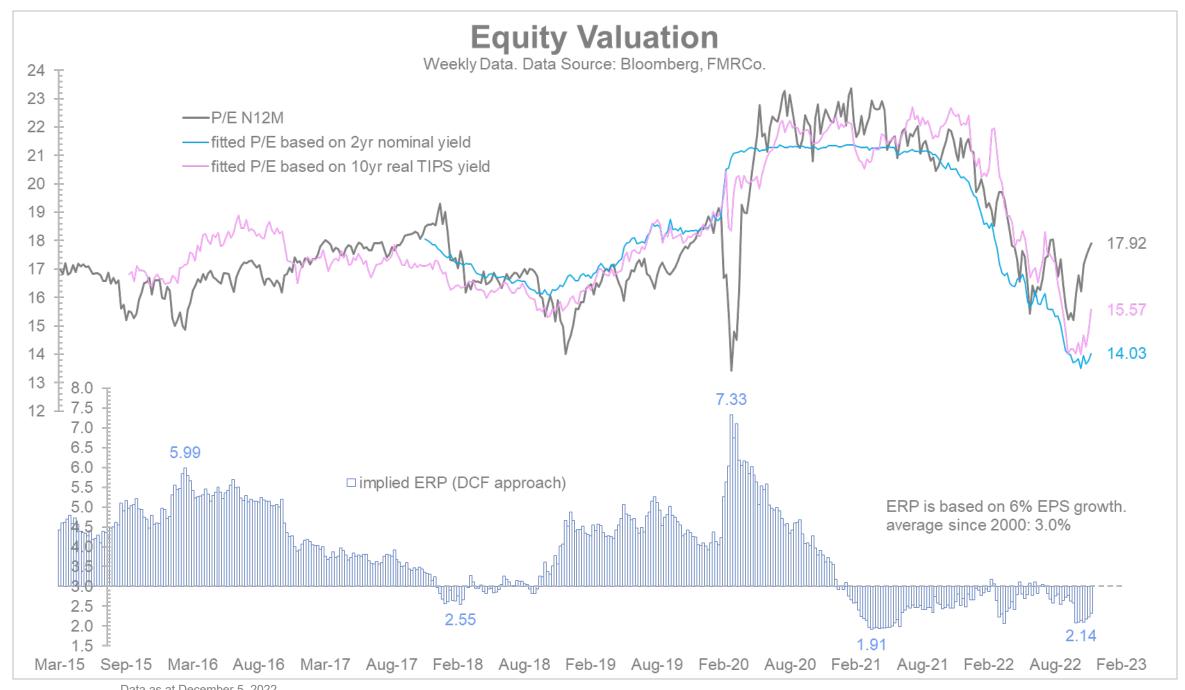


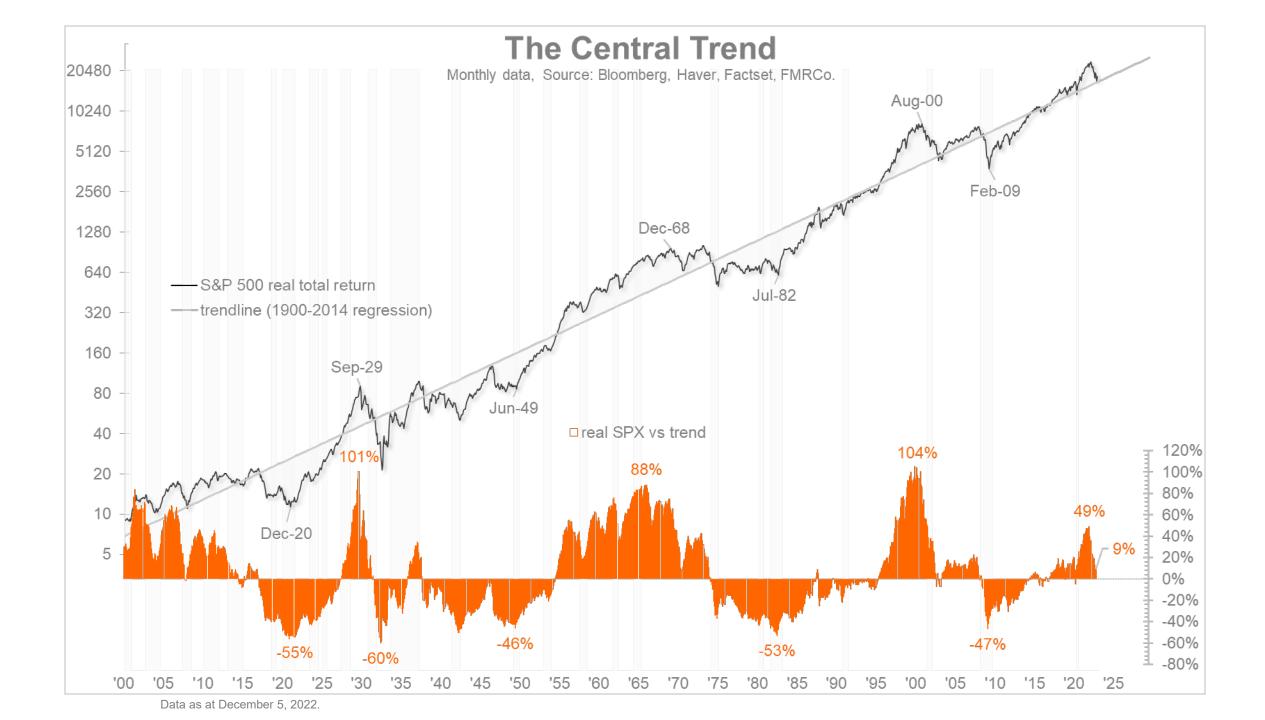


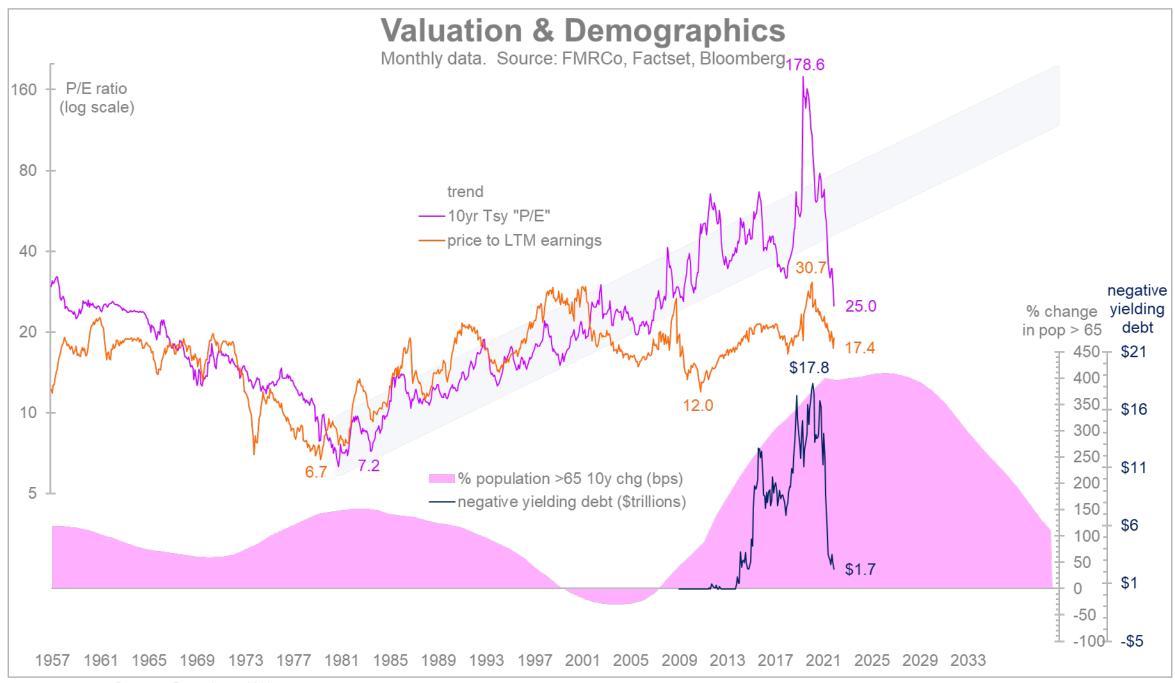


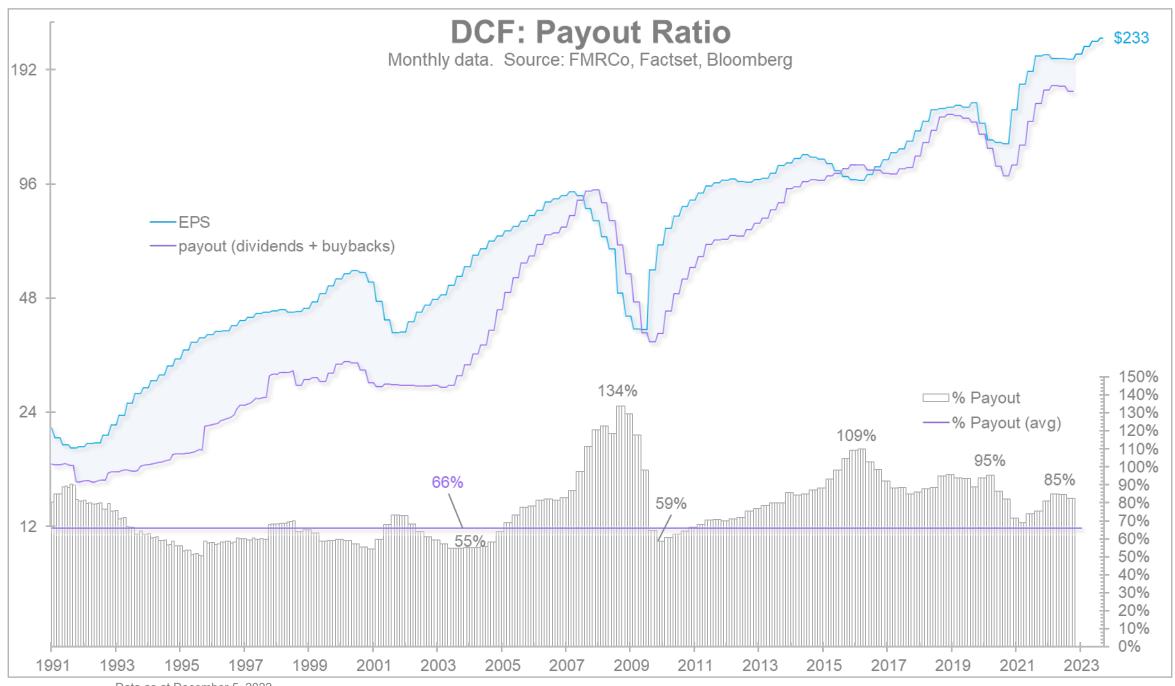


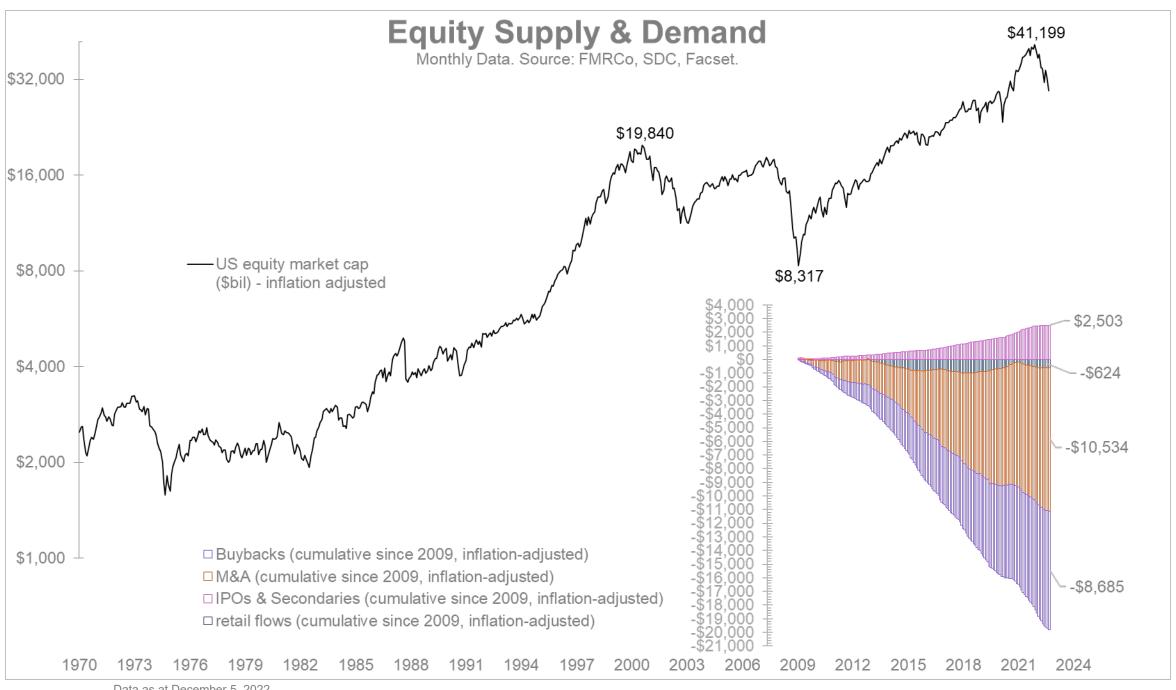




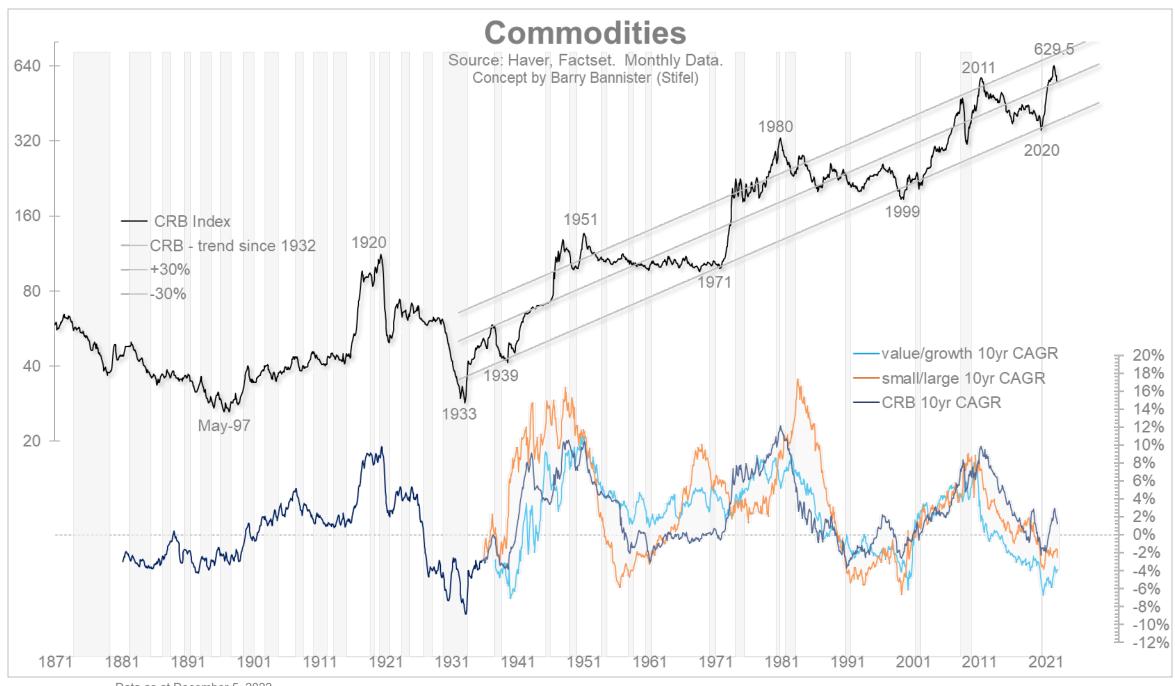


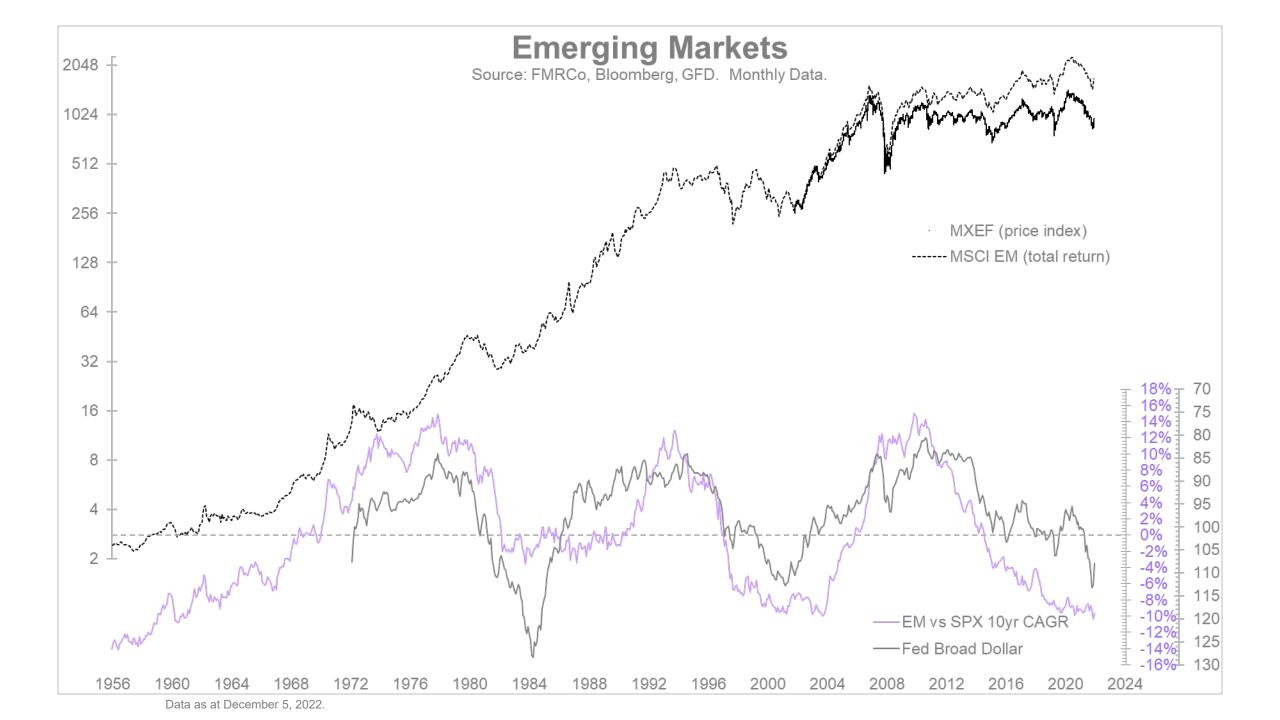


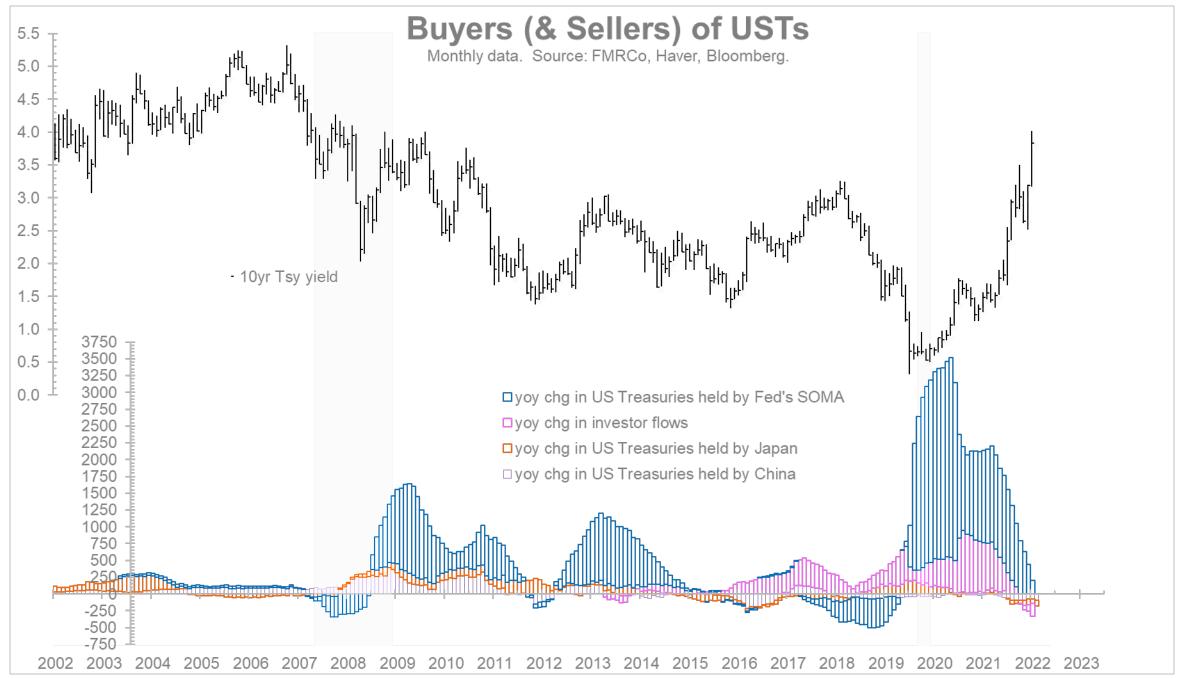


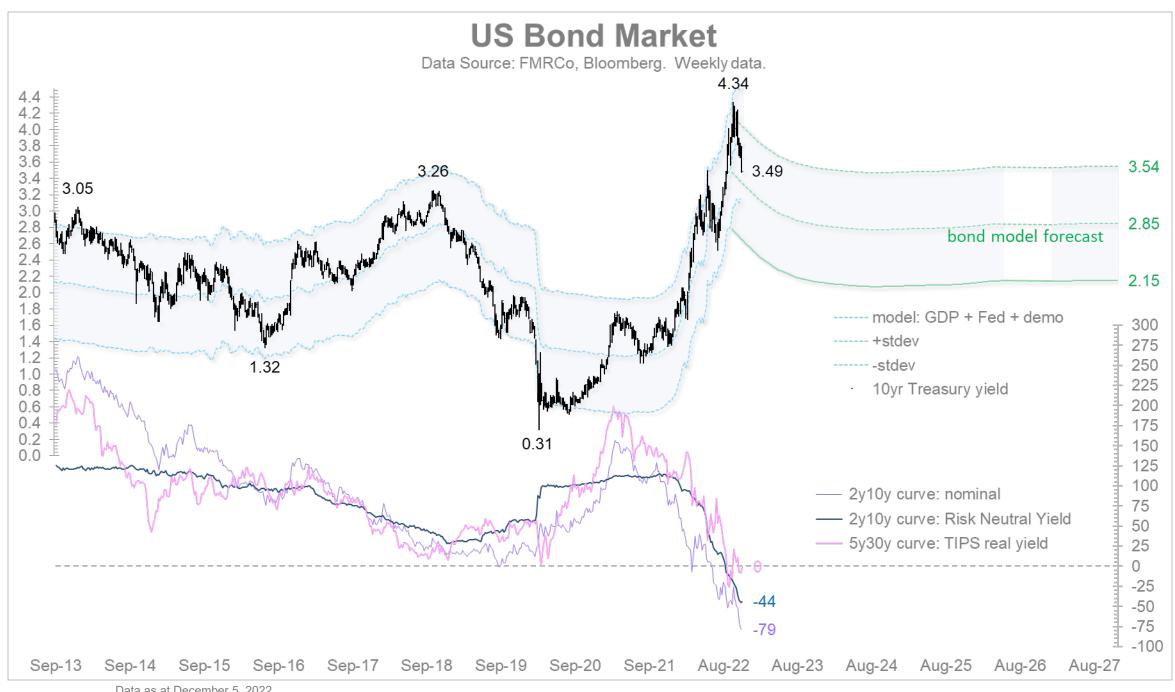


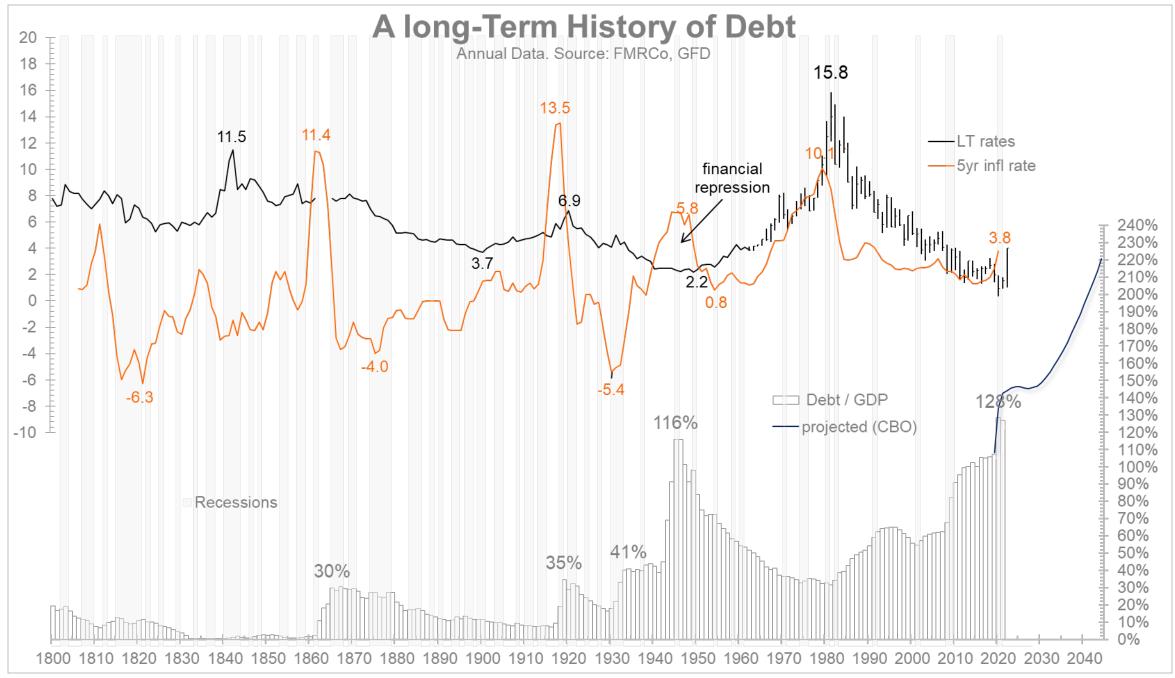


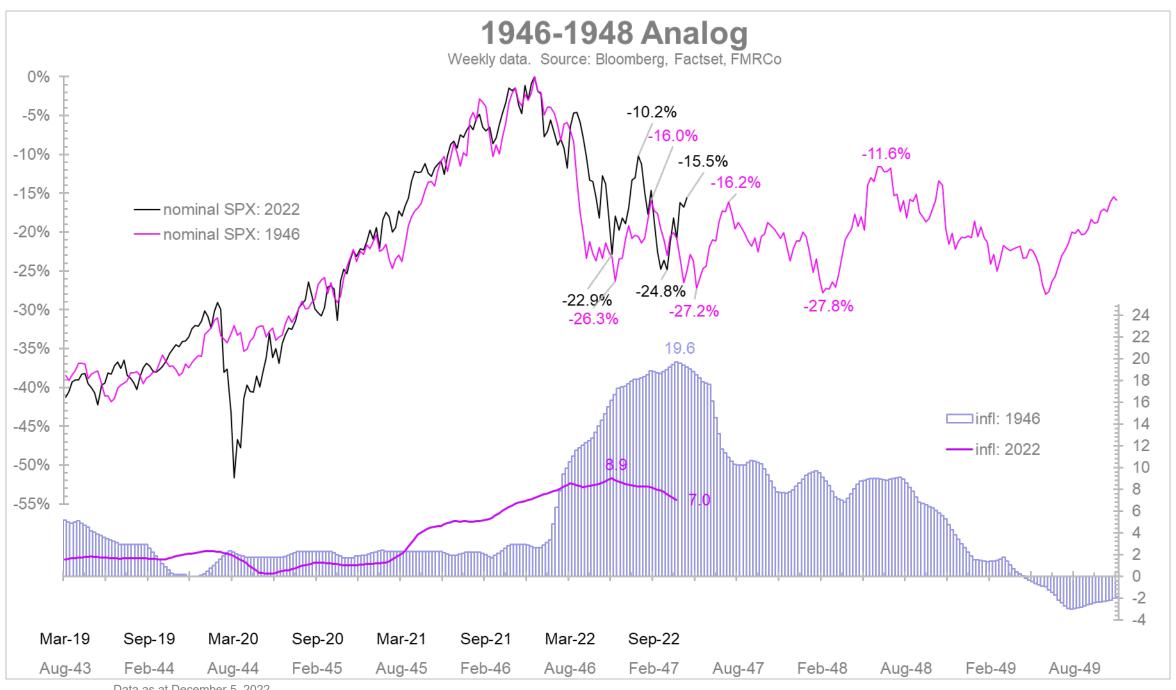


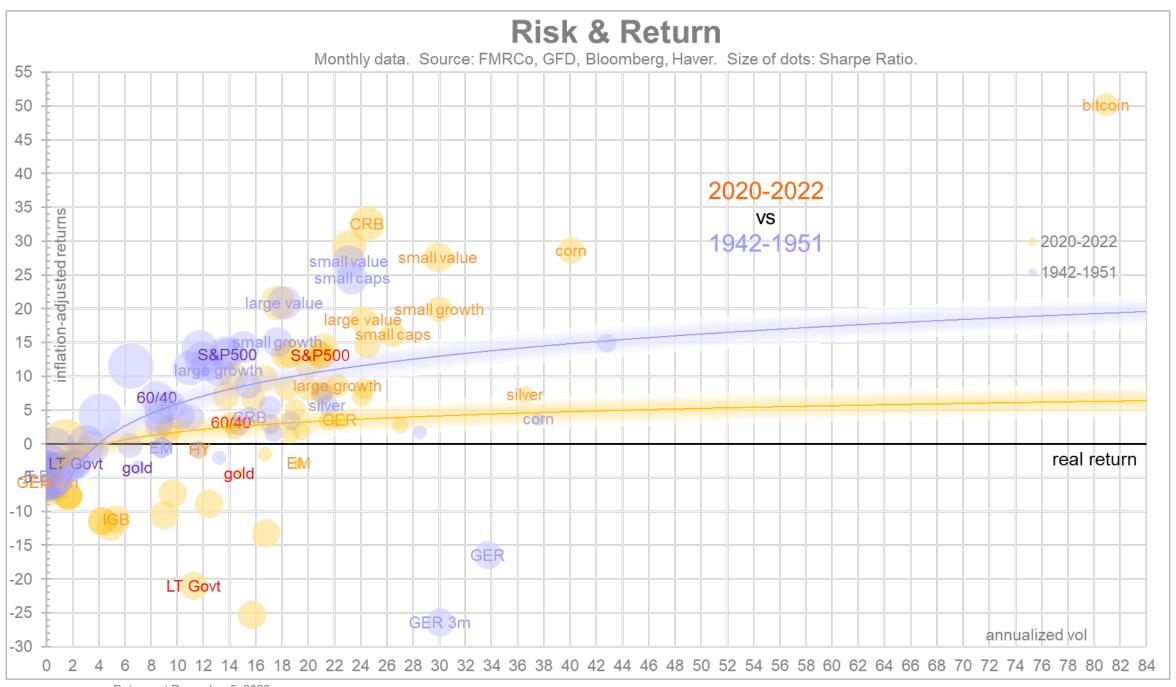














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Data source for periodic table: SG: Russell 2000 growth, REIT: MSCI REIT index, SC: Russell 2000, SPX: S&P 500, SV: Russell 2000 value, LG: Russell 1000 growth, EUR: MSCI Europe, EAF: MSCI EAFE, EM: MSCI EM, LV: Russell 1000 value, HY: Bloomberg Barclays high yield, JPN: MSCI Japan, EMD: JP Morgan EMBI, TIPS: Bloomberg Barclays TIPS, LT: Bloomberg Barclays long duration, gold: Bloomberg spot gold, IGB: Bloomberg Barclays investment grade bonds, HFs: HFRX hedge fund index, com: Bloomberg commodities index, cash: 3mo T-Bill yield.

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