

Seminar on Reinsurance Economic and Social Inflation

Assured Research

June 14, 2022



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- We also offer educational presentations to subscribers.
- We offer investment-oriented research through our affiliation with Gordon Haskett Research Advisors.
- Learn more and request free trial at <u>www.assuredresearch.com</u>
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OUTLINE OF EXHIBITS

Our Takeaways!

- Economic Inflation
 - Causes
 - > Tools for looking back/tracking in "real" time
 - > Tools for looking ahead
- Social Inflation
 - Indicators that we are watching
 - > Don't expect tort reform
- An Historical Look at the Impact of Inflation: (Re)insurers got this!
 - U/W and inflation
 - ROEs and inflation
- Summary and Looking Ahead



IF YOU TAKEAWAY ONE POINT...

We don't mean to imply that anticipating or measuring economic inflation to build into insurance rates is an easy task...we're sure it is not.

But...



IF YOU TAKEAWAY ONE POINT...

Over the long arc of history and through many economic cycles, insurers have proven adept at neutralizing the negative impacts of inflation via pricing actions...

...while their investment income rises as inflation takes interest rates higher.

ROEs are positively correlated with inflation.



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ECONOMIC INFLATION/RECESSION INTERRELATED

Demand >> Supply

- D toth during and "post" pandemic; initially for goods...increasingly services
- Against: S supply chain snarls (Covid lockdowns– ongoing in China, catastrophes), geopolitical standoffs/war, S (Labor), S(\$) both fiscal and monetary policies...stimulated demand <</p>
- Concern: Rising inflation expectations into longer-lived contracts (wages, rents, annual contacts, multi-year labor agmt)
- Action: Raise interest rates, slow (or limit new) fiscal spending
- Risk: A "Volcker-style, Fed-induced" recession

TRACKING ECONOMIC INFLATION – MAIN POINTS

Looking Back...

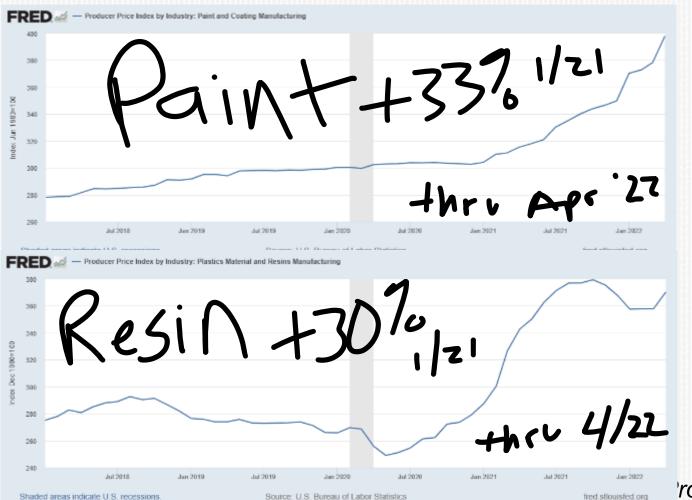
- Many will subscribe to various industry sources of cost indicators, but...
- Price indicators for many of the components of loss costs are available monthly (e.g., building materials/property; used car/materials for auto)...they are on your desktops
- Useful to think about how inflation differs: sticky vs. flexible; goods vs. services

Looking Ahead...

- > An explosion of 'real time' indicators of activity
- > Many commodities have an active futures market.



A FABULOUS SOURCE FOR PRICE DATA (AND LOTS MORE)

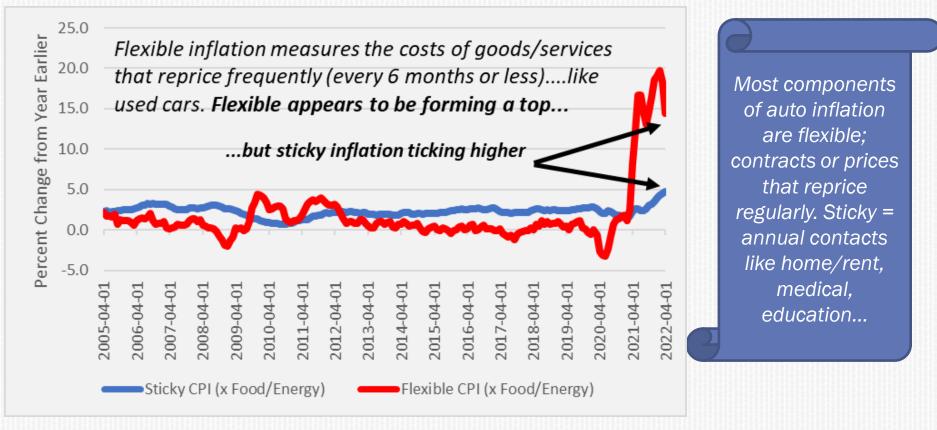


The <u>St. Louis</u> <u>Fed (FRED)</u> site includes thousands of time series across the economic spectrum; that includes myriad prices relevant to insurers' loss costs Ex. PPI components!

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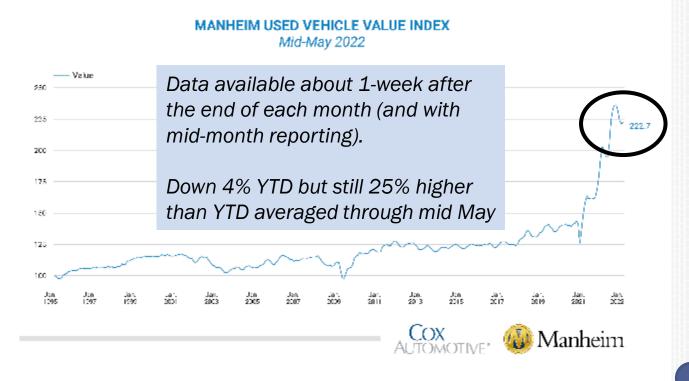
STICKY VS. FLEXIBLE INFLATION? STICKY IS RISING



Source: Federal Reserve Bank of Atlanta (via FRED), Assured Research



MANHEIM USED CAR INDEX – FLEXIBLE INFLATION

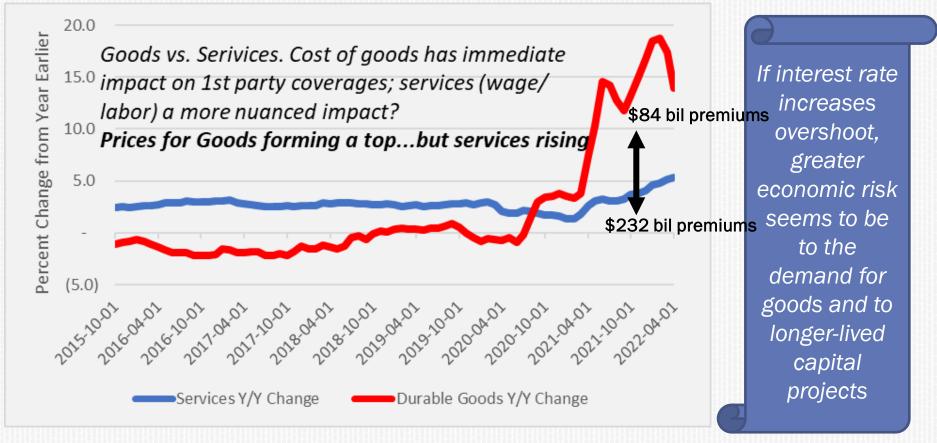


Reasonable hope that used car prices will decline. Supply of new vehicles expected to be up ~low double digits and demand waning in face of prices

Source: Manheim.com, Assured Research



DEMAND DESTRUCTION FROM A FED-INDUCED RECESSION?



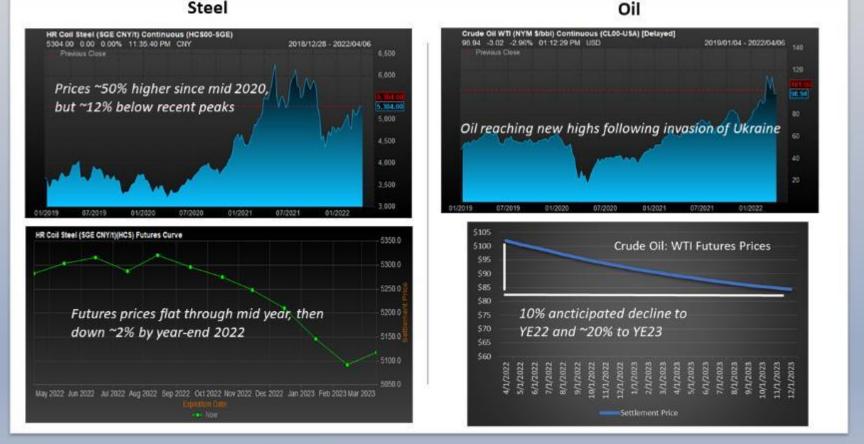
Source: Federal Reserve Bank of Atlanta (via FRED), ISO MarketStance, Assured Research



OTHER TOOLS FOR TRACKING TRENDS THAT IMPACT LOSS COSTS

- Explosion of tools available to everyday users since onset of pandemic
- Google Trends and other mobility indicators
- Real time auto crash data available at a host of states
- Office occupancy indicators provide a view on commuting trends (<u>Kastle</u>)
- Public transportation data available across the nation (<u>APTA</u>)
- Publicly traded companies in areas where YOUR company has concentrations...sales, margins, trends in labor/staffing
- Many raw materials for 1st party claims have active futures markets





Source: FACTSET via Gordon Haskett, Assured Research. Prices as of 4/6/22



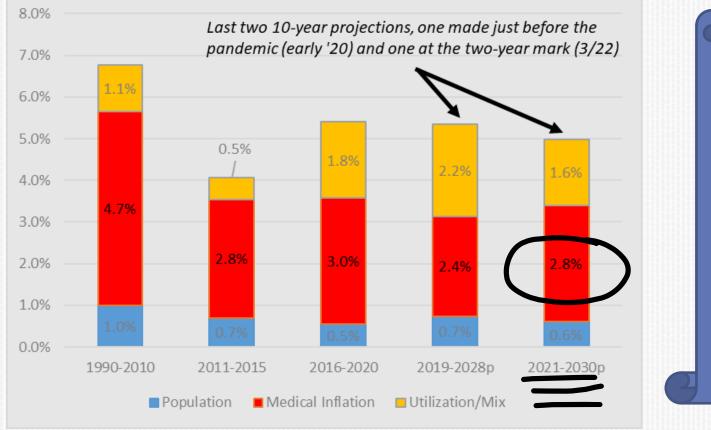


Source: FACTSET via Gordon Haskett, Assured Research. Prices as of 4/6/22

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MEDICAL INFLATION: NATIONAL HEALTH EXPENDITURES AND INFLATION



WC insurers enjoy a natural hedge against rising labor costs IF wage inflation exceeds medical cost inflation.

Source: CMS Office of the Actuary, Assured Research



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SOCIAL INFLATION – MAIN POINTS

- Whereas (we will show) insurers do a good job neutralizing economic inflation through pricing actions...
- Social inflation matters more than core inflation

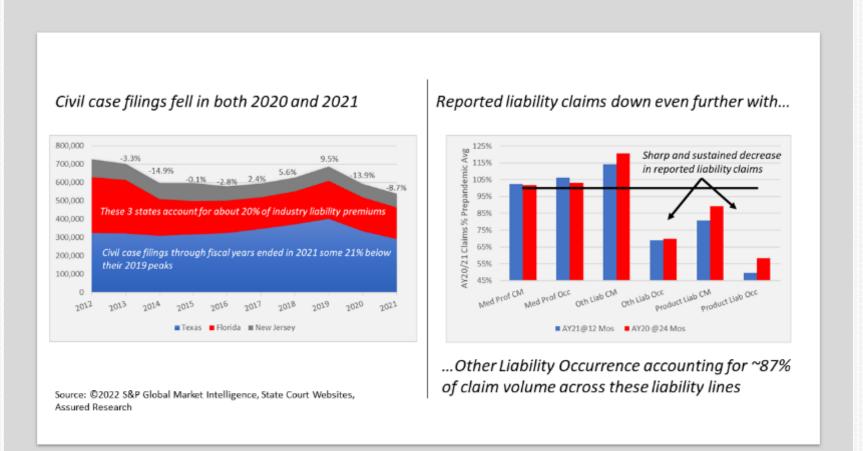
Social inflation is more relevant than core inflation in P&C Swiss Re '22 Investor Day

- We're watching 'real wages' as a proxy for inequality
- We're watching Bellwether Trials from several mass tort filings/MDL
- We're not anticipating that tort reform will come to the rescue, except...
- In Florida where HO market shows parallels to the tort reform movement from the 1980s

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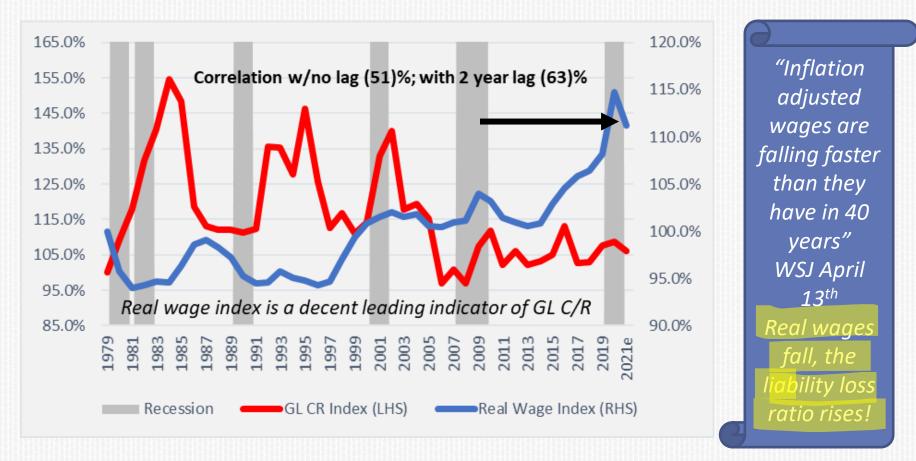
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SOCIAL INFLATION: ISSUE IS SEVERITY; NOT FREQUENCY





INEQUALITY: MAYBE REAL WAGES ARE AN INDICATOR?



Sources: St. Louis Fed (FRED), ©2022 S&P Global Market Intelligence, Assured Research

MDLS/MASS TORT CASES: LARGE CASE SETTLEMENTS BEGET LARGE CASE SETTLEMENTS

Bayer/Monsanto--Roundup

- Legal issue: Does Roundup contain a carcinogen that leads to non-Hodgkin's lymphoma?
- > Bayer lost first three trials but have recently won two.
- Proposed \$10 billion settlement for "current claimants.," but Court rejected \$2 billion proposal for "futures claimants."
- Settlement talks on hold as company waits to see if Supreme Court hears its appeal

Johnson & Johnson--Talcum Powder

- Legal issue: Does talcum powder cause ovarian cancer?
- Several trial losses and Supreme Court declines to review \$2.0 billion a
- Company placed talc claims in a separate (bankrupt) subsidiary.

3M--Combat Arms Earplugs

- Legal issue: Did faulty earplugs cause hearing loss among military person
- > 285,000 military claimants make this the largest MDL in history (by far).
- > Bellwether case decisions have been split
- > Our view: We expect a settlement; can't run all these cases through the courts!

Research and Analysis for Insurance and Investment Professionals

Watch

bellwethers,

they matter!

WATCH FOR EXPANDED GOVERNMENTAL ACTIONS

 Buoyed by the \$26 billion opioid settlement; Attorneys General, will expand "public nuisance" and "consumer protection" actions

Oil and gas companies re: climate change

- Many states have filed suits against companies arguing fossil fuels are a public nuisance
- Current question is whether suits should be pursued in State or Federal Courts; will take years to determine

E-cigarettes re: cause addiction and engage in deceptive marketing

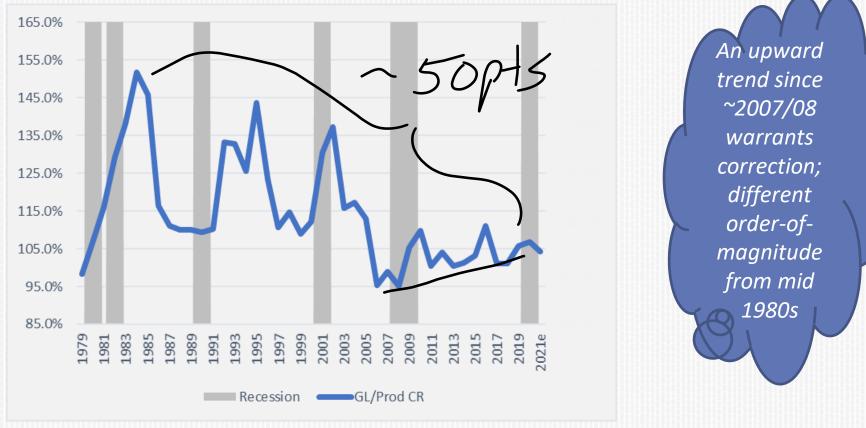
- Nine states have sued JUUL Labs
- > 39 states investigating health claims and marketing
- > JUUL settles \$40 million claim with North Carolina
- > Also, numerous civil suits including 3,300 claimants in MDL

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NO MAJOR INCENTIVES FOR TORT REFORM

Liability (GL + Product) Combined Ratio since 1979: Not that bad!



Source: A. M. Best, ©2022 S&P Global Market Intelligence, Assured Research



NO MAJOR INCENTIVES FOR TORT REFORM



Source: Institute for Legal Reform (state rankings), Bureau of Economic Analysis (GDP), S&P Global (loss ratios), Assured Research

Black lines = National Average



FL EXCEPTION! Illustrates just how dire...before Gov't Rx

Income Statement \$000					Income Statement; % NPE								
	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Net Premiums Earned	3,050,466	3,253,272	3,451,163	3,357,257	3,478,996	3,505,419	Net Premiums Earned	100%	100%	100%	100%	100%	100%
Losses Incurred	1,694,228	1,903,225	2,078,649	2,115,494	2,675,905	2,529,847	Losses Incurred	56%	59%	60%	63%	77%	72%
LAE Incurred	461,482	491,665	417,852	451,257	583,517	557,602	LAE Incurred	15%	15%	12%	13%	17%	16%
Other U/E Expense	1,082,407	1,119,142	1,190,347	1,142,933	1,055,781	1,139,799	Other U/E Expense	35%	34%	34%	34%	30%	33%
U/W Gain/(Loss)	-191,531	-264,761	-239,658	-356,332	-840,432	-727,008	U/W Gain/(Loss)	-6%	-8%	-7%	-11%	-24%	-21%
							Combined Ratio	106%	108%	107%	111%	124%	<u>121%</u>
Net Investment Income	93,061	106,903	127,568	144,276	115,165	77,406	Net Investment Income	3%	3%	4%	4%	3%	2%
Net Realized G/(L)	13,294	21,131	-3,240	18,472	127,449	7,897	Net Realized G/(L)	0%	1%	0%	1%	4%	0%
Other Income	19,107	5,295	50,519	28,087	11,129	27,066	Other Income	1%	0%	1%	1%	0%	1%
Net Income BT	-66,068	-131,432	-64,811	-165,498	-586,689	-614,639	Net Income BT	-2%	-4%	-2%	-5%	-17%	-18%
Net Income AT	-52,383	-74,518	-75,602	-145,876	-428,796	-562,660	Net Income AT	-2%	-2%	-2%	-4%	-12%	-16%
Resv Dev%NEP (+ Adverse)	1.4%	2.3%	4.7%	4.2%	1.6%	<mark>7.4%</mark>							

Premium Analysis \$000

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Direct & Assumed	6,516,425	6,910,665	7,227,530	7,898,533	8,963,003	9,629,349
Ceded	3,465,782	3,572,276	3,799,878	4,583,528	5,547,871	5,939,227
Net Written Premium	3,096,924	3,392,220	3,472,780	3,363,914	3,495,509	3,852,781

Premium Analysis; % D&A									
	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>			
Direct & Assumed	100%	100%	100%	100%	100%	100%			
Ceded	53%	52%	53%	58%	62%	<mark>62%</mark>			
Net Written Premium	48%	49%	48%	43%	39%	40%			

36 Insurers writing >50% FL HO Premiums

Source: ©2022 S&P Global Market Intelligence, Assured Research



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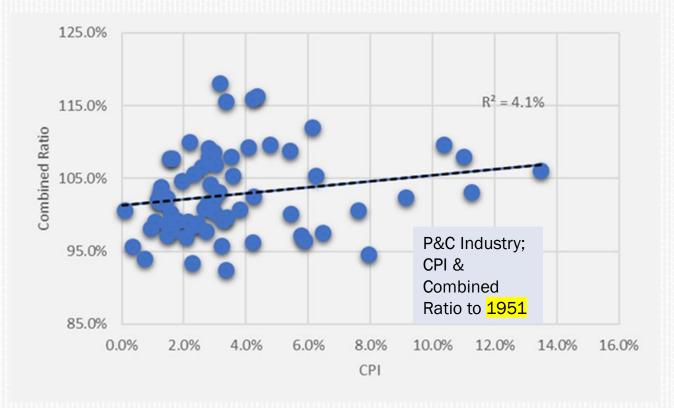
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INFLATION: (RE)INSURERS GOT THIS!

- Insurers do a good job neutralizing economic inflation through pricing actions...
 - No meaningful correlation between UW and CPI over ~all lines
- Weather impacts property and social inflation more impactful for liability
- But there is a notable correlation between inflation and ROEs. Why?
- Because investment returns rise with rising yields



NO STRONG ASSOCIATION BETWEEN U/W AND INFLATION: INDUSTRY



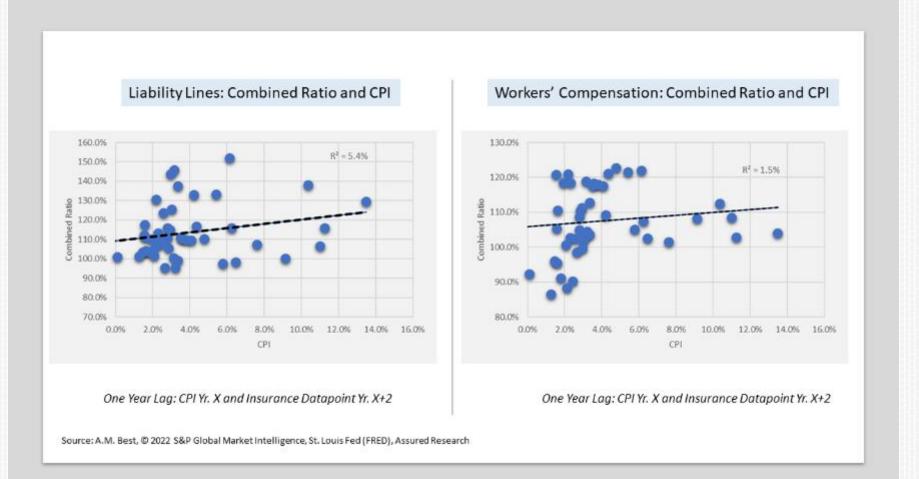
"Inflation is top of mind for everyone in the P&C industry, which to its credit, has historically been adept at adequately responding to inflation trends."

CEO of Arch Capital speaking on 1Q22 CC

Source: A.M. Best, © 2022 S&P Global Market Intelligence, Assured Research



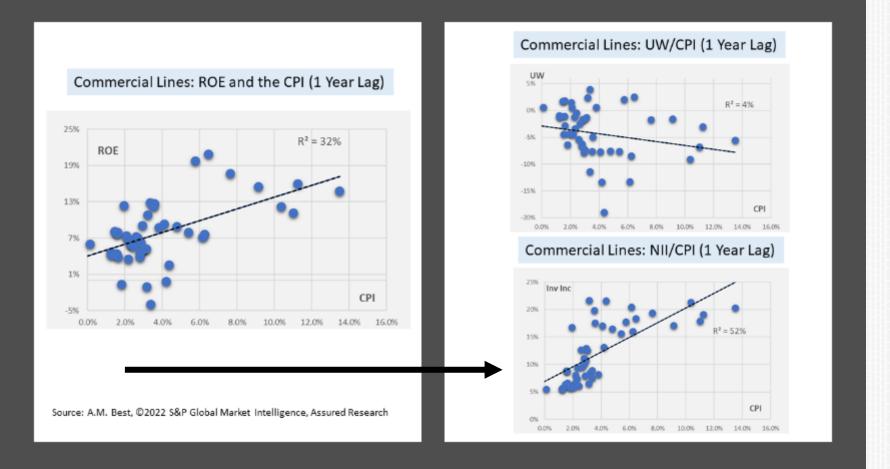
NO STRONG ASSOCIATION BETWEEN U/W AND INFLATION: COMMERCIAL LINES



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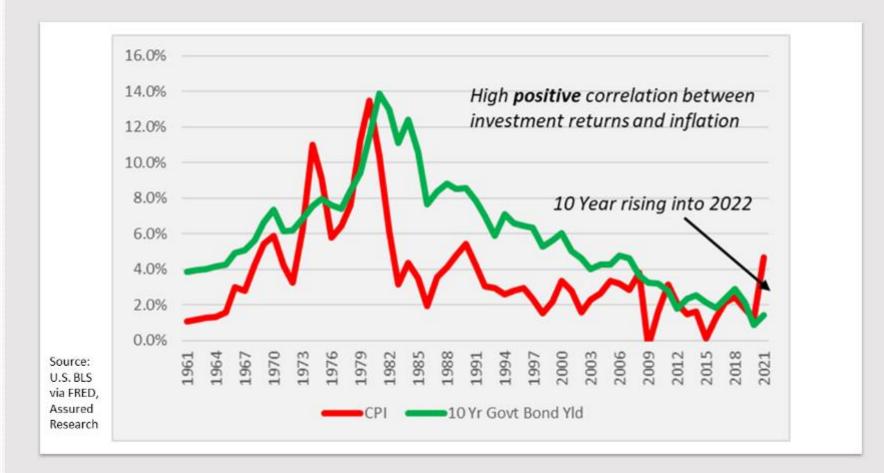
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POSITIVE CORRELATION BETWEEN CPI AND COMMERCIAL LINES ROE





STRONG POSITIVE CORRELATION CPI/INTEREST RATES





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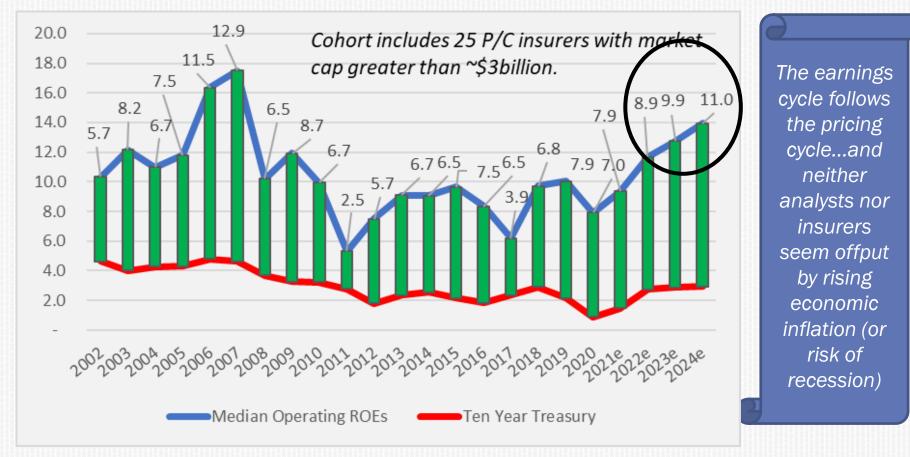


PUTTING IT ALL TOGETHER

- History teaches us that the earnings cycle follows the pricing cycle
 - CR tends to decline for ~ 3 years after the peak of each pricing cycle
- Reserve balances appear broadly healthy with particular redundancies (we think) in workers' compensation
- Insurers are adept at neutralizing the adverse impact of inflation through pricing; investment income rises as interest rates increase
- That means...
- Insurers' ROEs can be expected to increase over the next few years



EARNINGS FORECASTED TO RISE 2022-2024E



Sources: ©2022S&P Global Market Intelligence, WSJ (Treasury forecast April, 2022), Assured Research. Pricing data as of 5/18/2022 Research and Analysis for Insurance and Investment Professionals

