

Interest Rates, Valuation, & Distress in Levered Companies Forensics Institute Fall 2022 – October 26, 2022

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Introductions



Introductions





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Overview

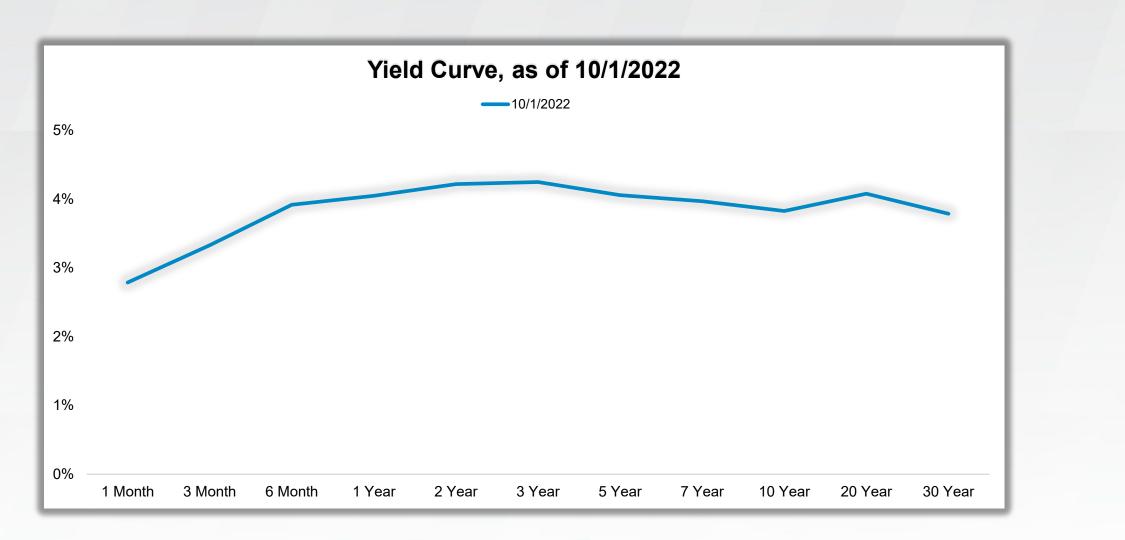
- Interest rates are rising
- Equity valuations are declining
- Recession?
- Distress may be around the corner



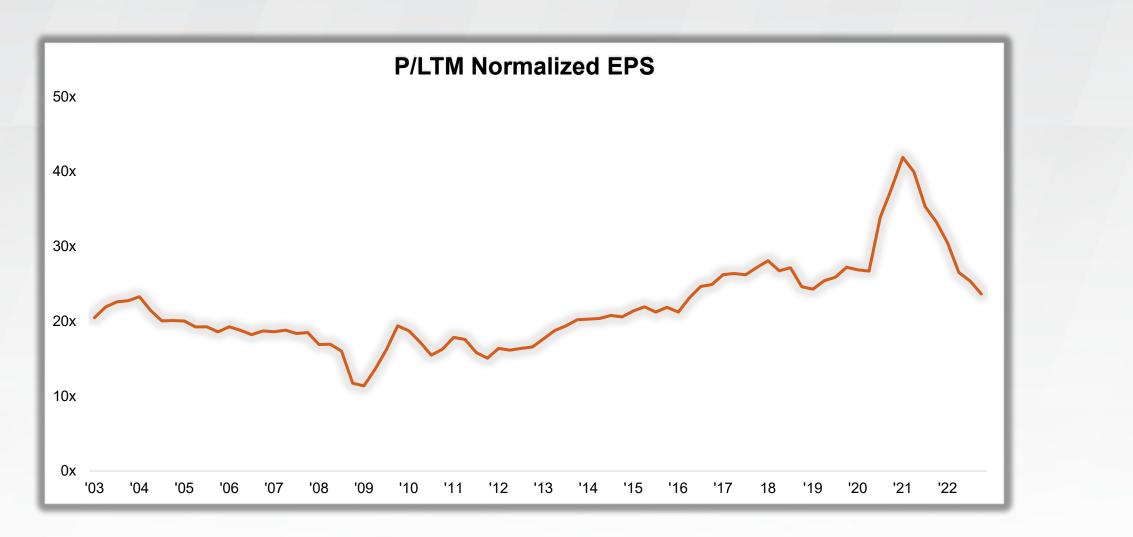
Current Market



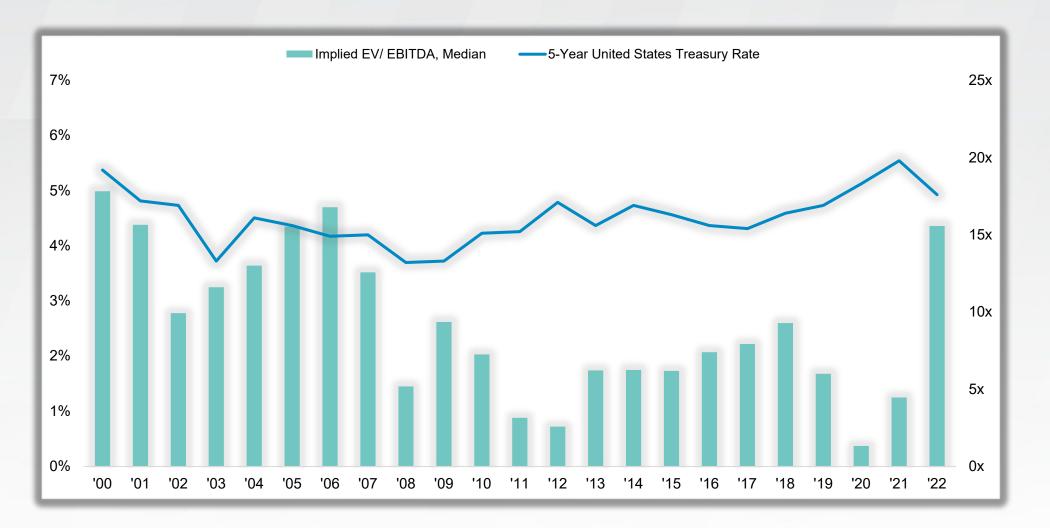
Interest Rate



Multiples



M&A Multiples



Interest Rates



Bond Pricing

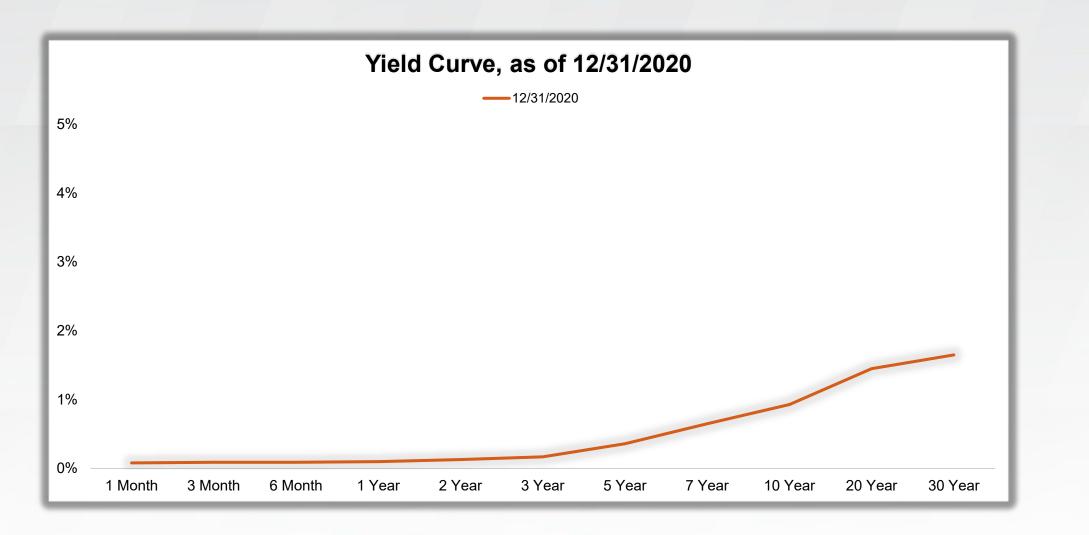
Semi-Annual Pay Bond

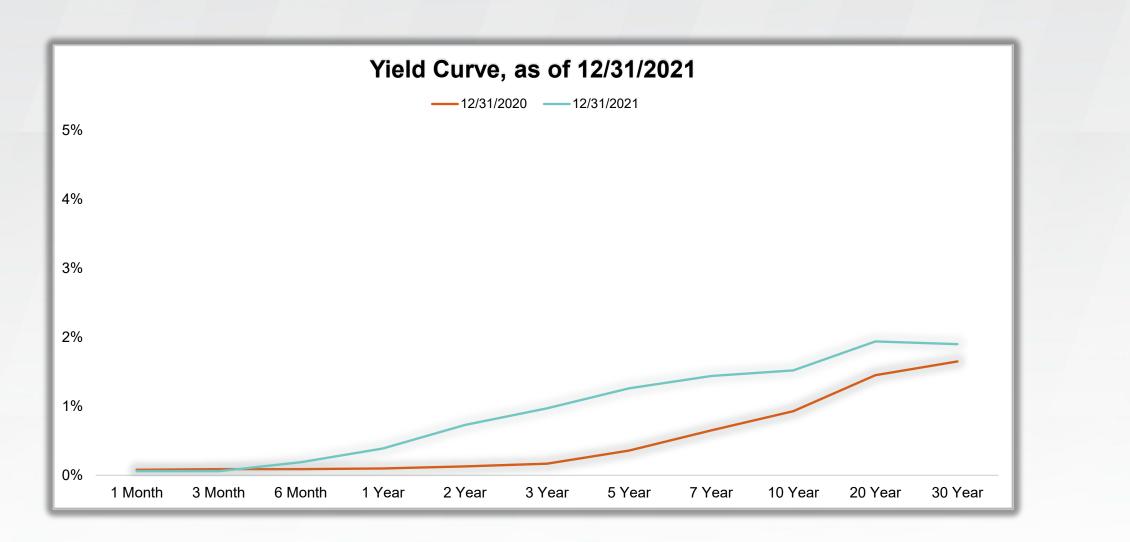
At Par		
Face Value	\$100	Face
Coupon	4.5%	Coup
Term	5 years	Term
Number of Payments	10	Num
Yield	4.5%	Yield
Value	\$100.00	 Valu

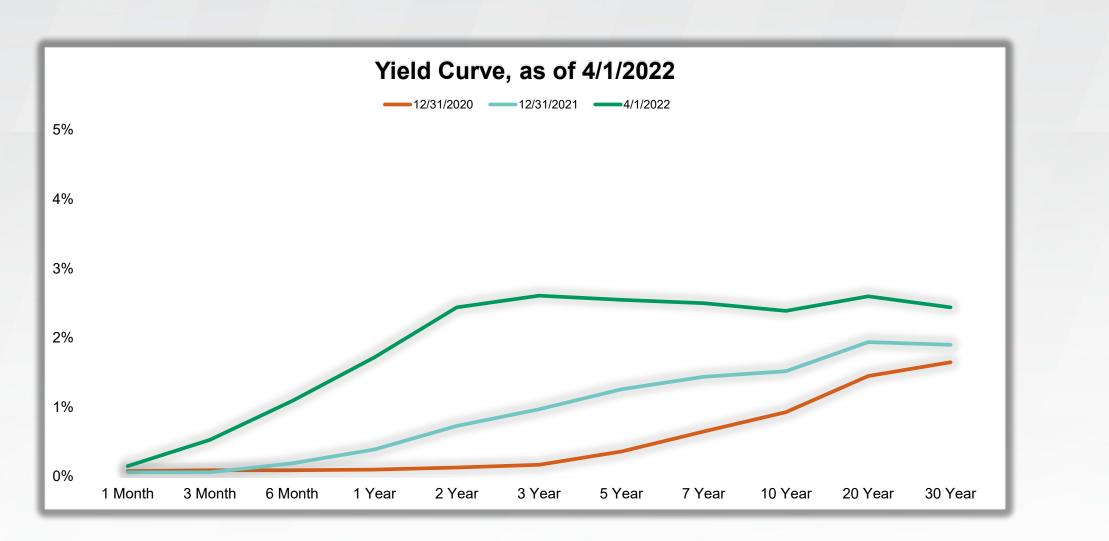
Discount				
Face Value	\$100			
Coupon	4.5%			
Term	5 years			
Number of Payments	10			
Yield	6.0%			
Value	\$96.57			

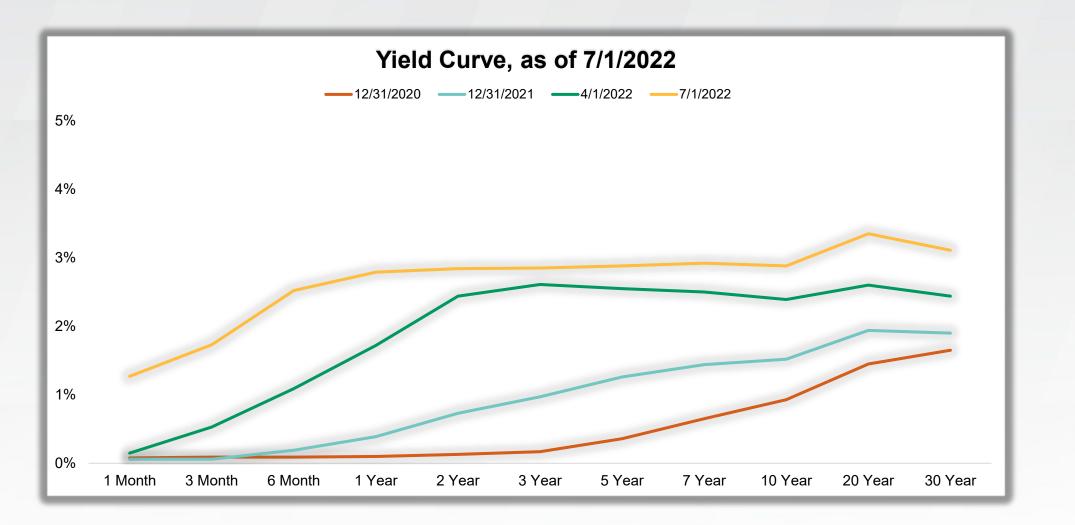
Premiur	n
Face Value	\$100
Coupon	4.5%
Term	5 years
Number of Payments	10
Yield	3.0%
Value	\$103.59

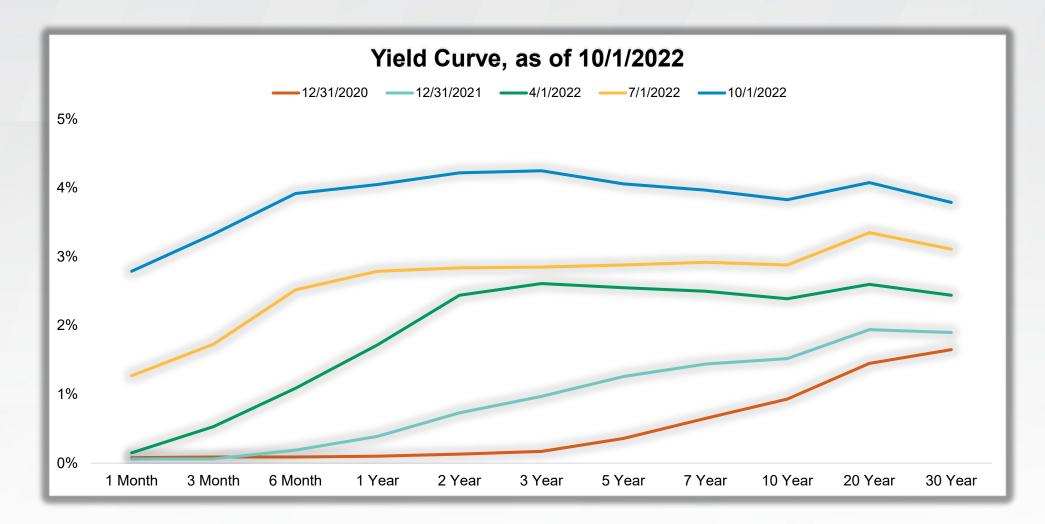








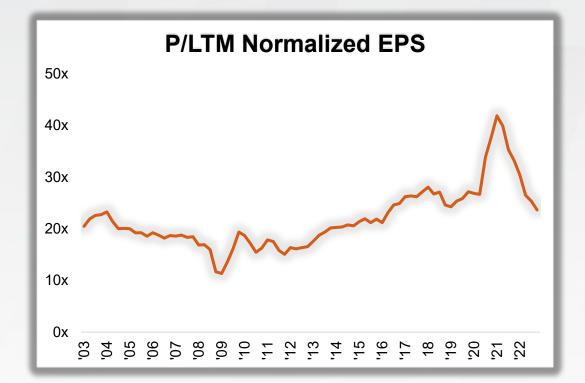


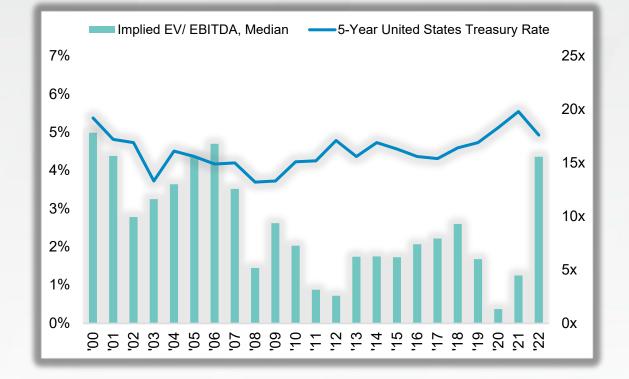


Valuation



Multiples and M&A Multiples





"Any Company" Projection

	1	2	3	4	5	Terminal
Revenue	\$500	\$525	\$551	\$579	\$608	\$626
EBIT	\$125	\$131	\$138	\$145	\$152	\$156
Тах	\$(32)	\$(34)	\$(36)	\$(38)	\$(40)	\$(41)
After-Tax CF	\$93	\$97	\$102	\$107	\$112	\$115
Adjustments	\$(35)	\$(37)	\$(39)	\$(41)	\$(43)	\$(14)
After-Tax CF	\$58	\$60	\$63	\$66	\$69	\$101

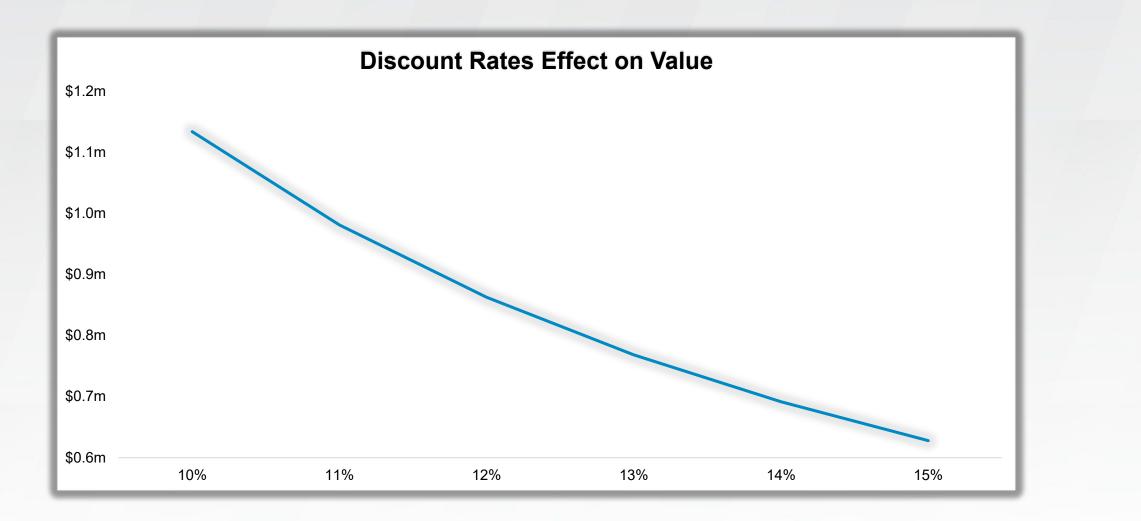


Income Approach

		Pre-Fed Interest	Rate Hike Disc	ount Rate: 12%		
	1	2	3	4	5	Terminal
After-Tax CF	\$58	\$60	\$63	\$66	\$69	\$1,122
PV Factor	0.89	0.80	0.71	0.64	0.57	0.57
PV Cash Flow	\$52	\$48	\$45	\$42	\$39	\$637
Present Value	\$862					

		Post-Fed Interes	st Rate Hike Dise	count Rate: 15%		
	1	2	3	4	5	Terminal
After-Tax CF	\$58	\$60	\$63	\$66	\$69	\$842
PV Factor	0.87	0.76	0.66	0.57	0.50	0.50
PV Cash Flow	\$50	\$46	\$41	\$38	\$34	\$418
Present Value	\$628					

Discount Rates Effect on Value



Inverse Multiples

Cash Flow	\$100	\$100	\$100
Value	\$1,000	\$833	\$625
Discount Rate	10%	12%	16%
P/CF	10x	8x	6x



Distress



Distress at the corporate level means cash is getting scarce

- Financial distress debt load does not fit with the current capital structure
- Operational distress problem with operational costs &/or revenue



Symptoms of Distress

- Working capital changes
- Over-advances on the line of credit
- Bank covenant violations



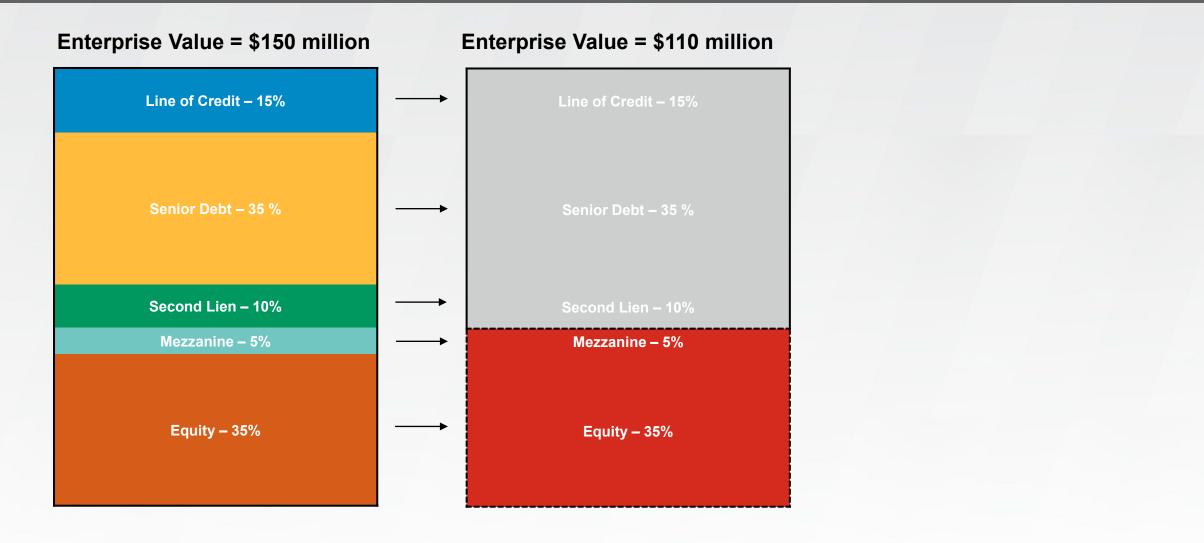
- Enterprise Value = Debt + Equity
- Cash flow is not sufficient to service debt/fixed obligations
- Current capital structure does not fit with valuation



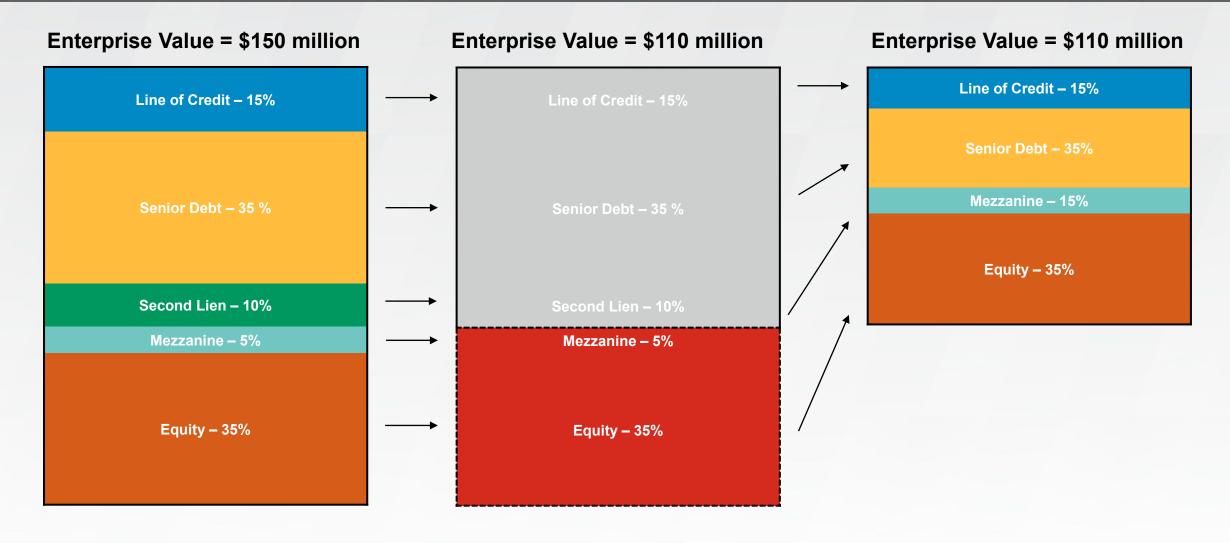
Enterprise Value = \$150 million

Line of Credit – 15%
Senior Debt – 35 %
Second Lien – 10%
Mezzanine – 5%
Equity – 35%





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Operational Distress

- Cash flow is not sufficient to service debt/fixed obligations
- Decrease in demand
- Supply chain issues
 - Lack of raw materials
 - Cost of raw materials
 - Cost of other inputs, e.g., transportation
- Leverage compounds operational distress

Conclusion



Conclusion

- There are technical ties between valuation & interest rates
- Complexity beyond the technical ties opens up bigger discussion points
- Interest rates are an important piece of the valuation puzzle, yet only the tip of the iceberg
 - Understanding hard costs of distress versus normal business operations
 - Understanding soft costs of distress



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- Succession planning

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- Divorce

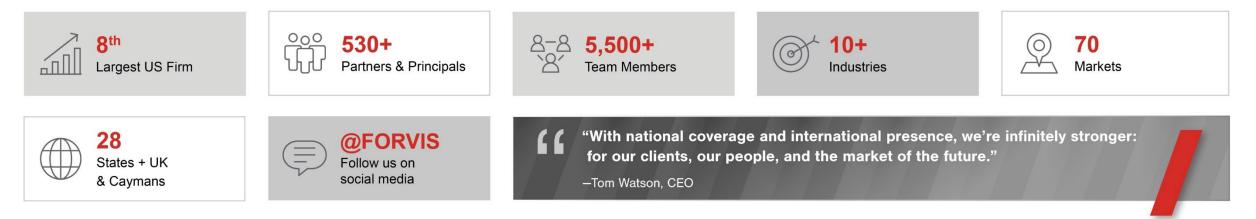
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QUESTIONS



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