

March 17th, 2021

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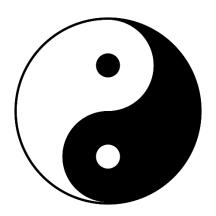
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What are your insurer's risk asset investments?

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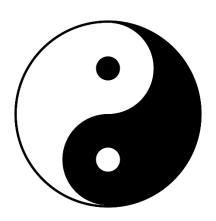




Yin	Yang
Receptive	Active
Winter	Summer
Disorder	Order
Risk	Reward





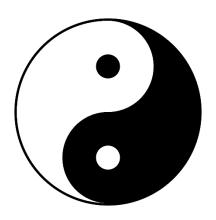


Risk	Reward
Can be overdiversified (5% heuristic)	Diversifier that can improve risk adjusted return
Can be over valued	Higher investment income (sometimes)
Downside can be vicious and timely, resulting in decreased surplus	Upside results in increased surplus



Sources of Risk and Reward





Sources of Risk	Sources of Reward
Drawdown and Volatility	Dividends or interest
Capital losses	Capital gains
Mean reversion (if over valued)	Mean reversion (if under valued)





Risk Assets-to- Surplus Ratio	Net Assets/Surplus (\$MM)	Risk Assets (\$MM)	Risk Assets As % of Total Portfolio	Surplus Level (\$MM): Worst negative return trend	Downside Impact: As % of Surplus	Surplus Level (\$MM): Worst Calendar Year Decline	Downside Impact: As % of Surplus
100%	\$2,076.4	\$2,076.4	54.90%	\$1,011.7	-51.30%	\$1,260.8	-39.30%
85%	\$2,076.4	\$1,764.9	46.70%	\$1,164.3	-43.90%	\$1,376.1	-33.70%
75%	\$2,076.4	\$1,557.3	41.20%	\$1,266	-39.00%	\$1,452.9	-30.00%
65.60%	\$2,076.4	\$1,362.1	36.00%	\$1,361.7	-34.40%	\$1,525.1	-26.60%
50%	\$2,076.4	\$1,038.2	27.50%	\$1,520.4	-26.80%	\$1,645	-20.80%
40%	\$2,076.4	\$830.6	22.00%	\$1,622.1	-21.90%	\$1,721.8	-17.10%
35%	\$2,076.4	\$726.7	19.20%	\$1,673	-19.40%	\$1,760.2	-15.20%
30%	\$2,076.4	\$622.9	16.50%	\$1,723.9	-17.00%	\$1,798.6	-13.40%
25%	\$2,076.4	\$519.1	13.70%	\$1,774.7	-14.50%	\$1,837	-11.50%
20%	\$2,076.4	\$415.3	11.00%	\$1,825.6	-12.10%	\$1,875.4	-9.70%
15%	\$2,076.4	\$311.5	8.20%	\$1,876.5	-9.60%	\$1,913.8	-7.80%
10%	\$2,076.4	\$207.6	5.50%	\$1,927.3	-7.20%	\$1,952.3	-6.00%

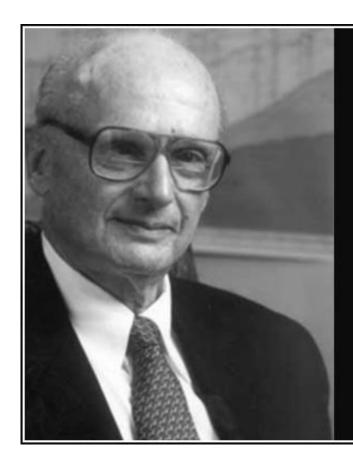


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Assuming the previous slide is your insurer, what % of Surplus is your Risk Appetite?

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A good portfolio is more than a long list of good stocks and bonds. It is a balanced whole, providing the investor with protections and opportunities with respect to a wide range of contingencies.

— Harry Markowitz —

AZ QUOTES



Diversification: "The Only Free Lunch in Investing"



Different assets zig when others zag

Correlation statistic: -1 to +1

Plus 1: Perfect direct relationship

Minus 1: Perfect inverse relationship

Zero: No relationship

- Investment grade bonds are highly correlated with each other
- Risk assets not as highly correlated to IG bonds or many other risk assets
- But, what does that 'Free Lunch' of Diversification look like?







Fixed Income	Correlation to US Agg.
	1.00
U.S. Aggregate	
U.S. Municipal	0.64
U.S. Int. Treasury	0.79
U.S. Short Gov/Cred	0.76
U.S. TIPS	0.74
U.S. Inv. Grade Corp	0.80
Risk Assets	
U.S. High Yield	0.18
U.S. Leveraged Loans	(0.06)
EM Sovereign	0.53
EM Corporate	0.44
U.S. Large Cap	0.00
U.S. Mid Cap	0.01
U.S. Small Cap	(0.07)
EAFE	0.07
EM Equity	0.12
U.S. REITs	0.28
Global Equity	0.05
Global Infrastructure Equity	(0.03)
Private Equity	(0.22)





Building Block #2: Return and Risk Assumptions

Acces Oloco	Forecast (Annualized)		
Asset Class	Pre-Tax Return	<u>Risk</u>	
Fixed Income			
U.S. Aggregate	2.10%	3.43%	
U.S. Municipal	1.90%	3.28%	
U.S. Int. Treasury	1.50%	2.83%	
U.S. Short Gov/Cred	1.70%	1.50%	
U.S. TIPS	1.50%	5.29%	
U.S. Inv. Grade Corp	2.50%	6.22%	
Risk Assets			
U.S. High Yield	4.80%	8.33%	
U.S. Leveraged Loans	5.10%	7.91%	
EM Sovereign	5.20%	8.82%	
EM Corporate	4.70%	8.52%	
U.S. Large Cap	4.10%	14.80%	
U.S. Mid Cap	4.40%	16.93%	
U.S. Small Cap	4.60%	19.44%	
EAFE	6.50%	16.92%	
EM Equity	7.20%	21.14%	
U.S. REITS	6.50%	15.34%	
Global Equity	5.10%	15.76%	
Global Infrastructure Equity	6.10%	10.80%	
Private Equity	7.80%	18.67%	





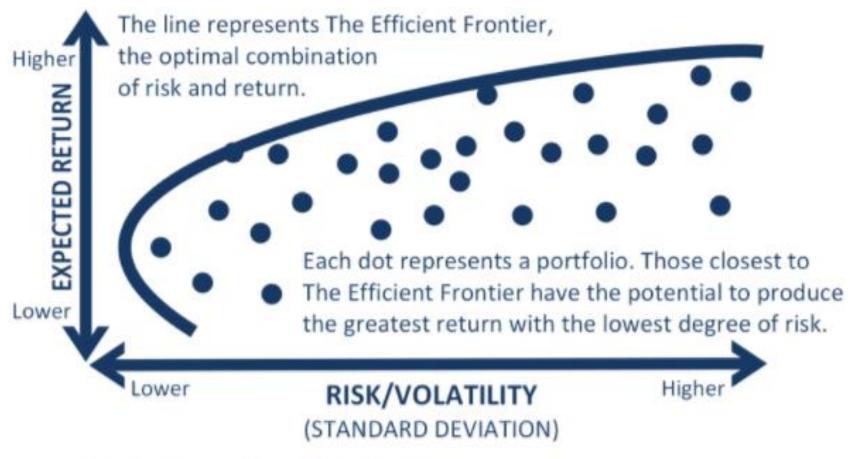
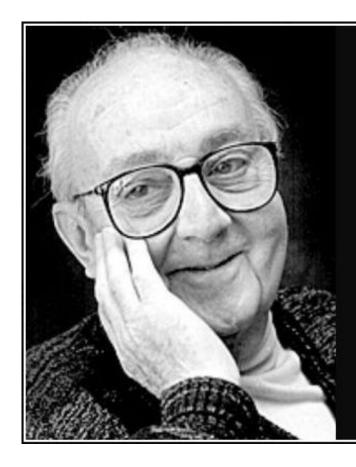


Figure 1: Efficient Frontier [2]

Please Remember





All models are wrong, but some are useful.

— George E. P. Box —

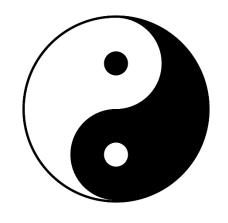
AZ QUOTES



The Yin and Yang of Risk Assets



Risk Appetite



Efficient Frontier

Yin	Yang
Receptive	Active
Winter	Summer
Disorder	Order
Risk	Reward

