# RISK POOL INVESTMENT SEMINAR MARCH 29, 2023



## Looking Back



- 100% US Stocks
- 100% US Fixed Income
- **•**50% / 50%
- 100% HY Fixed Income

## Return / Volatility

**+7.91%** / 15.66%

+4.62% / 3.45%

**+6.73%** / 7.57%

+6.40% / 7.89%



#### **Returns – Time Horizon**



## **2022**

- 100% US Stocks
- 100% US Fixed Income
- **•**50% / 50%
- 100% HY Fixed Income
- 100% Commodities
- 100% Cash

## Return

- -19.60%
- -13.25%
- -16.43%
- -9.06%
- +24.08%
- +1.82%



## **2021-2023**

- 100% US Stocks
- 100% US Fixed Income
- **•**50% / 50%
- 100% HY Fixed Income

## Return / Volatility

- **+2.45%** / 18.59%
- **-6.88%** / 6.75%
  - **-1.94%** / 11.74%
- **-1.92%** / 8.77%



#### Fixed Income Yields – 12/31/2021 versus 3/17/2023

Index	YTW @	YTW @	Chg In YTW		Addition Annual Income per \$10M		YTW Multiple relative to
	12/31/2021	3/17/2023			\$	10,000,000	12/31/2021
Aggregate	1.75%	4.36%	1	2.61%	\$	261,000	2.49 <del>**</del>
Intermediate Aggregate	1.55%	4.31%	1	2.76%	\$	276,000	2.78
U.S. Treasury	1.23%	<b>3.74</b> %	1	2.51%	\$	251,000	3.04
U.S. 3-Month Treasury	0.05%	4.41%	1	<b>4.</b> 36%	\$	436,000	88.20
U.S. 2-Yr Treasury	0.73%	3.88%	1	<b>3.15</b> %	\$	315,000	5.32
U.S. 5-Yr Treasury	1.26%	<b>3.51</b> %	1	2.25%	\$	225,000	2.79
U.S. 10-Yr Treasury	1.50%	3.43%	1	1.93%	\$	193,000	2.29
U.S. 30-Yr Treasury	1.89%	3.63%	1	1.74%	\$	174,000	1.92
U.S. Agency MBS	1.98%	4.41%	1	2.43%	\$	243,000	2.23
ABS	1.13%	4.64%	1	<b>3.51</b> %	\$	351,000	4.11
CMBS	1.88%	<b>5.0</b> 1%	1	<b>3.13</b> %	\$	313,000	2.66
U.S. Credit	2.25%	<b>5.18</b> %	1	2.93%	\$	293,000	2.30
A-Rated Corporates	2.11%	<b>5.11</b> %	1	3.00%	\$	300,000	2.42
BBB-Rated Corporates	2.55%	5.59%	1	<b>3.04</b> %	\$	304,000	2.19
Municipal Bond	1.11%	3-35%	1	2.24%	\$	224,000	3.02
Taxable Municipal Bond	2.33%	4.74%	1	2.41%	\$	241,000	2.03
U.S. High Yield	4.21%	8.98%	1	4.77%	\$	477,000	2.13
Global Agg. (USD)	1.31%	<b>3.48</b> %	1	2.17%	\$	217,000	2.66

## Risk Pool Peer Group Summary

As of 12/31/2022

#### SAA Risk Pool Peer Group Overview – As of 12/31/2022



#### TOTAL

- 23 Clients
- 51 Portfolios
  - > \$5.58B In Assets
  - > \$4.7B Core Fixed Income (84.22%)
  - > \$0.88B Risk Assets (15.78%)

#### **MULTI-LINE P&C**

- 18 Clients
- 31 Portfolios
  - > \$4.29B In Assets
  - > \$3.63B Core Fixed Income (84.62%)
  - > \$0.66B Risk Assets (15.38%)

#### **HEALTH**

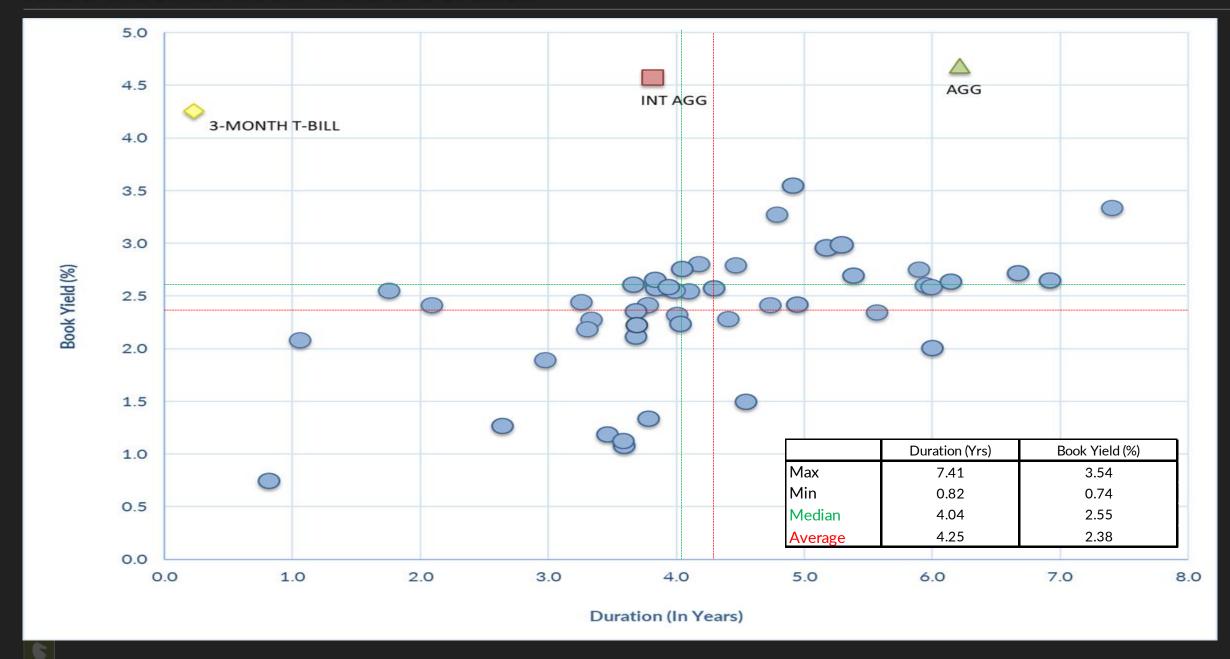
- 9 Client Portfolios
  - > \$333M In Assets
  - \$288M Core Fixed Income (86.49%)
  - > \$45.2M Risk Assets (13.51%)

#### **REINSURERS**

- 9 Client Portfolios
  - > \$961M In Assets
  - > \$776M Core Fixed Income (80.75%)
  - > \$185M Risk Assets (19.25%)

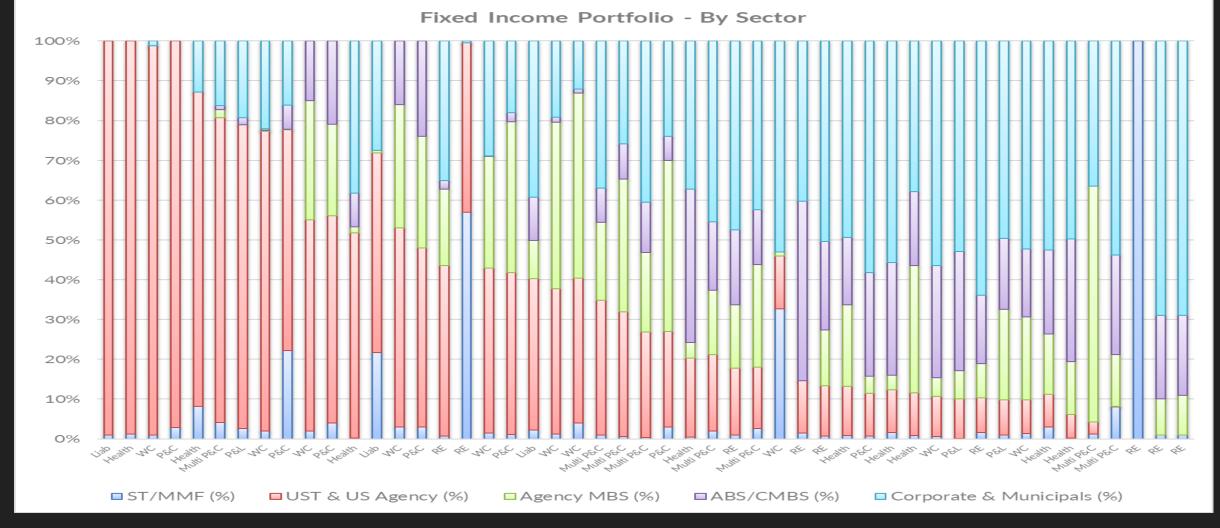
#### Fixed Income: Book Yield & Duration





#### Fixed Income Allocation By Sector

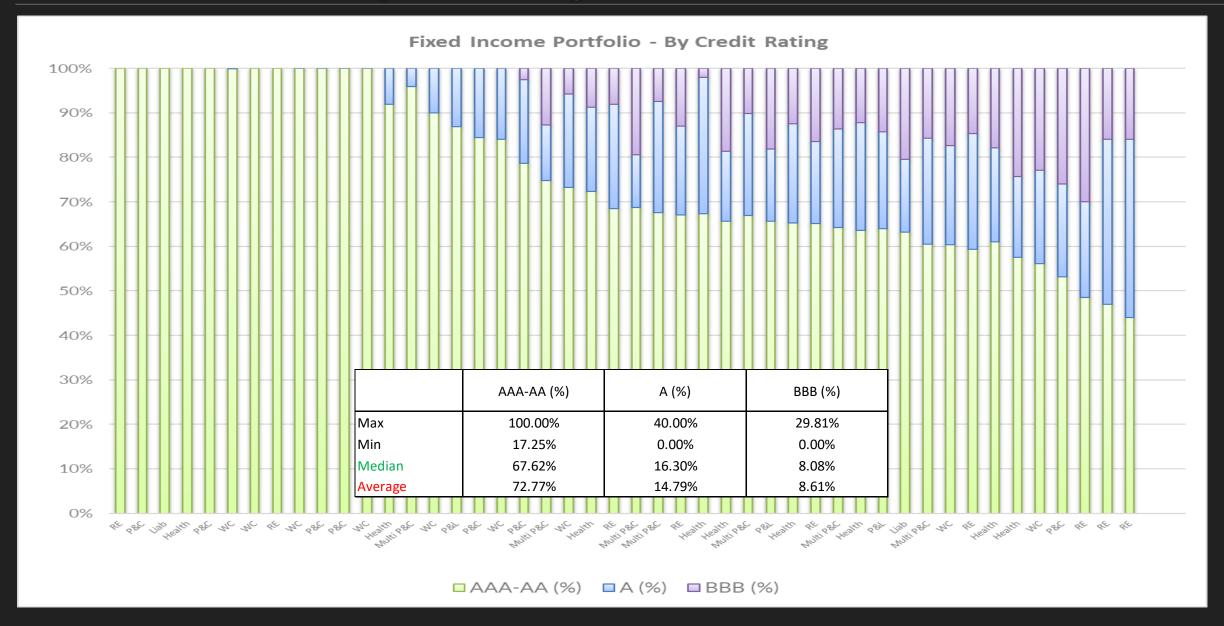




	ST/MMF (%)	UST & US Agency (%)	Agency MBS (%)	ABS/CMBS (%)	Corporate & Taxable Muni (%)	Credit (%) Corp/Structured
Max	100.00%	99.10%	59.20%	45.00%	100.00%	100.00%
Min	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%
Median	1.40%	26.50%	13.10%	12.64%	37.15%	46.17%
Average	6.42%	34.06%	15.02%	12.66%	33.13%	45.54%

#### Fixed Income Portfolio – By Credit Rating



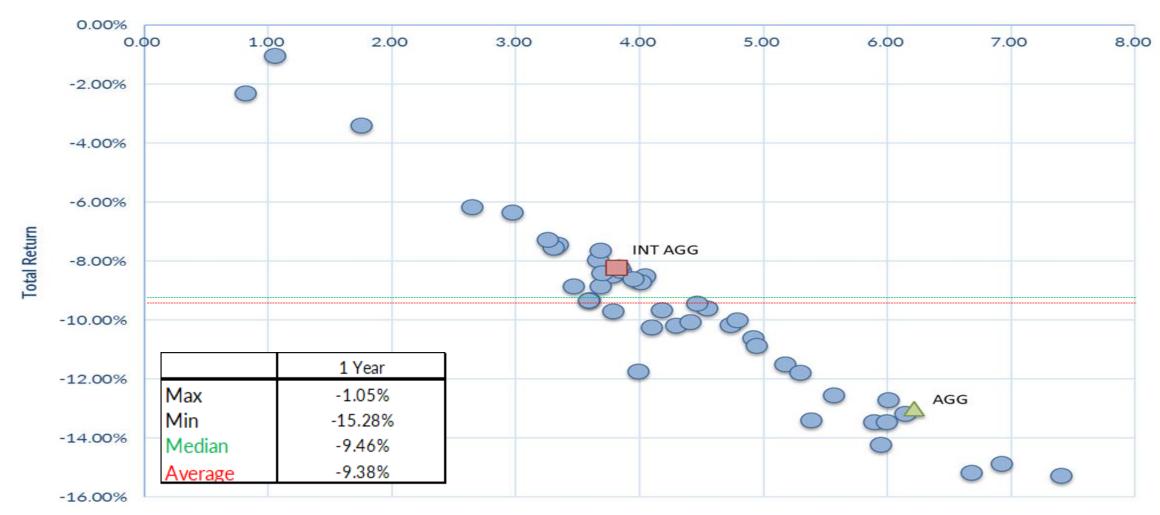




#### Fixed Income: One-Year Performance







Duration

#### Fixed Income: Three-Year Performance (Annualized)





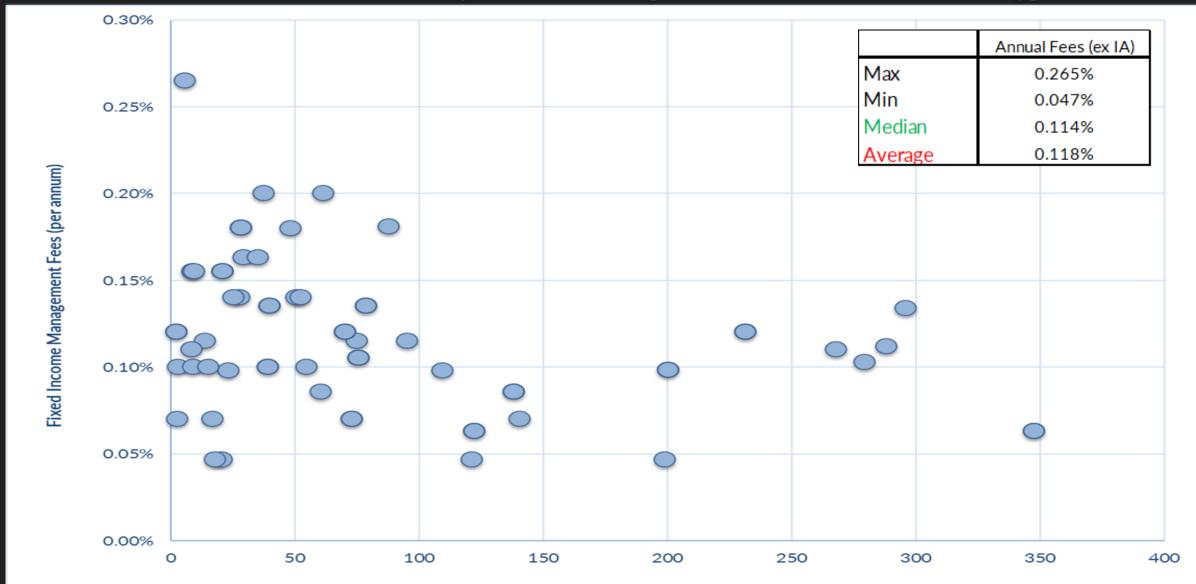


Duration



#### Fixed Income Investment Management Fees (ex Investment Accounting)

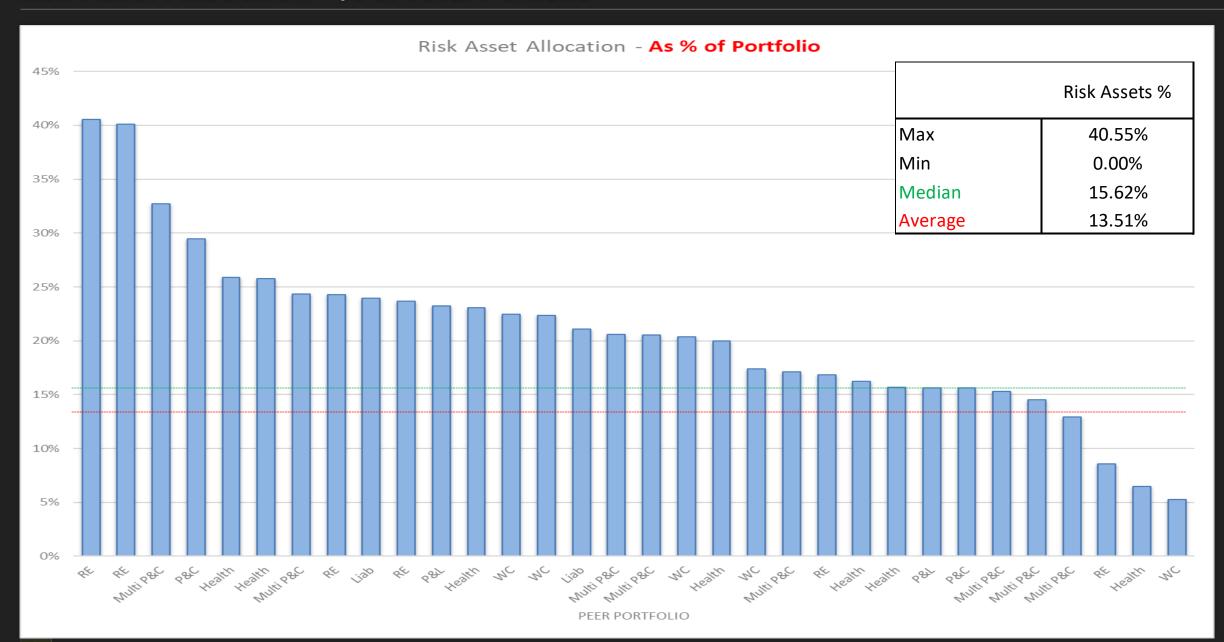




Fixed Income Portfolio Size (\$ Millions)

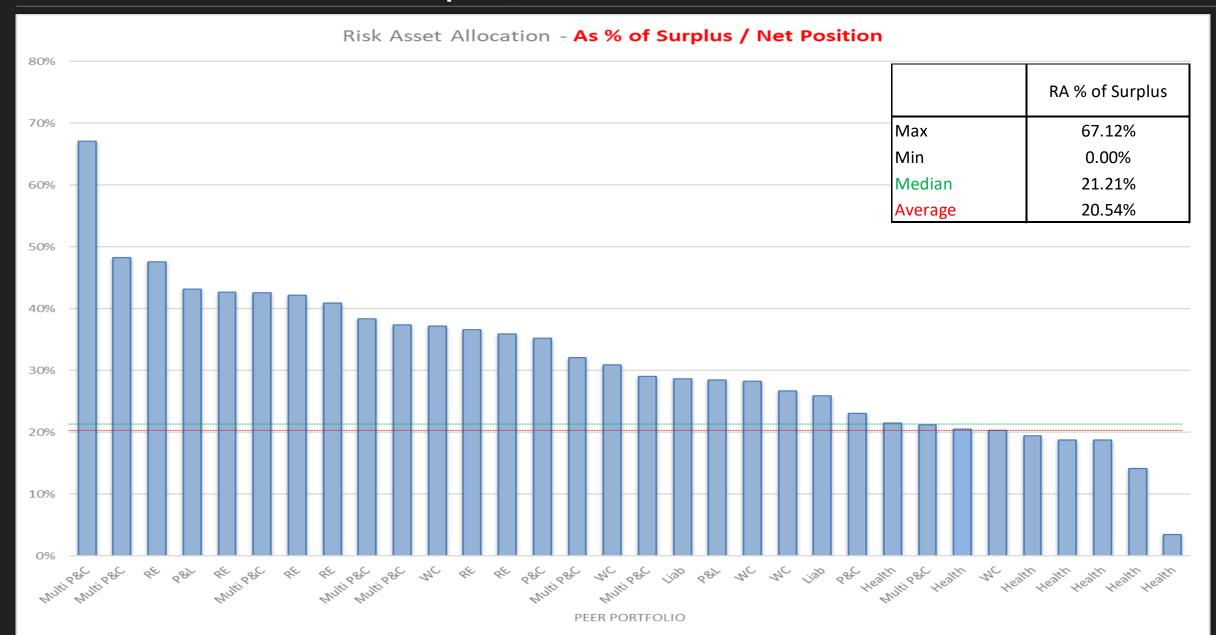
#### Risk Asset Allocation - % of Total Portfolio





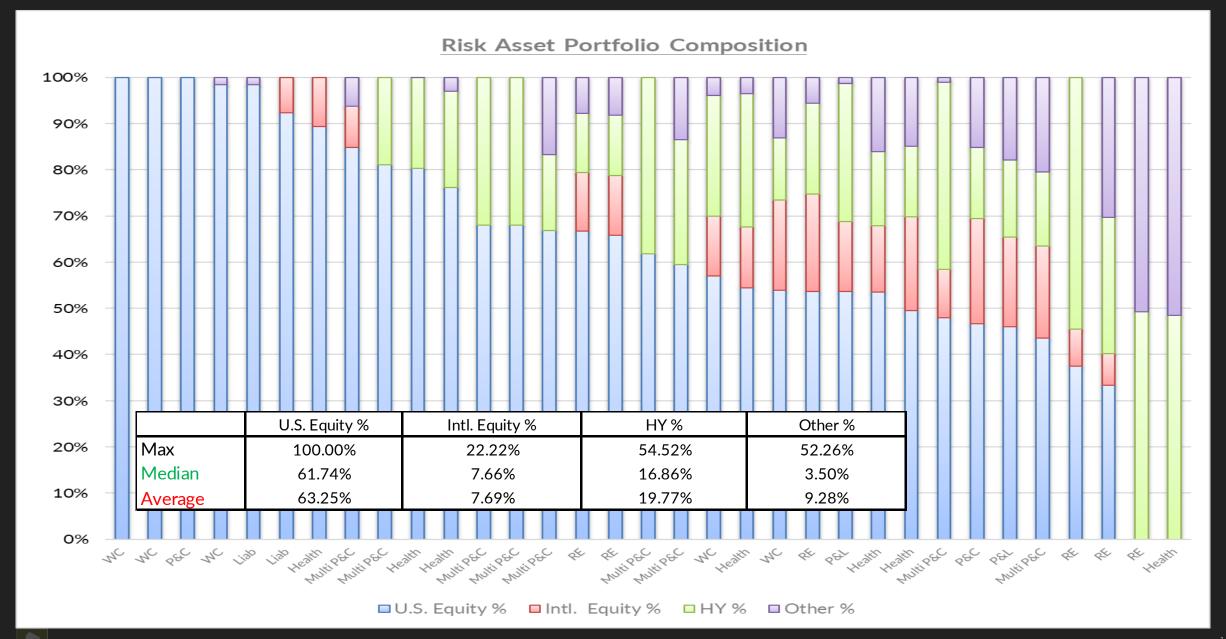
#### Risk Asset Allocation - % of Surplus / Net Position





#### **Risk Asset Allocation**

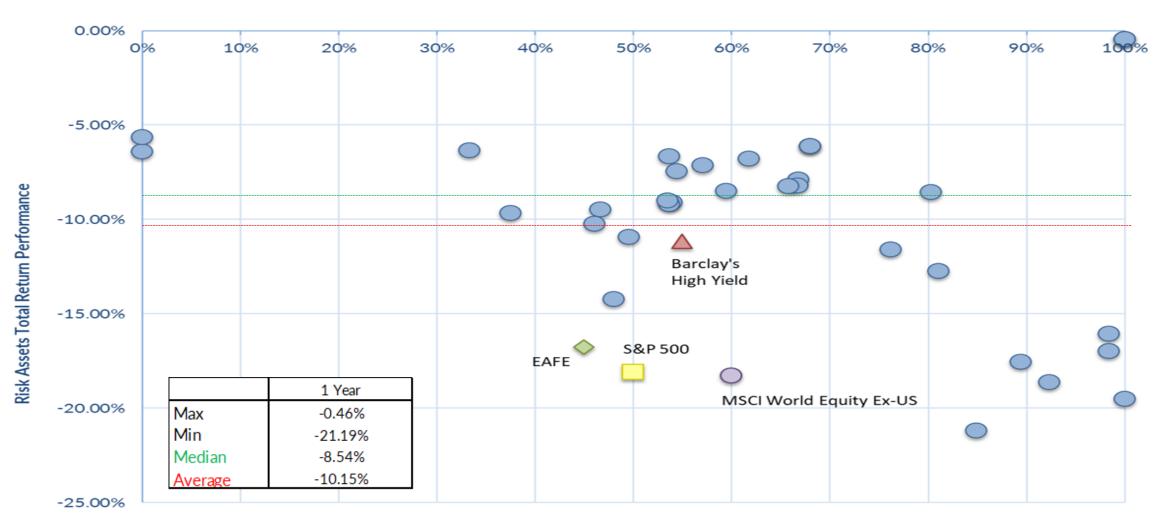




#### Risk Assets: One-Year Performance





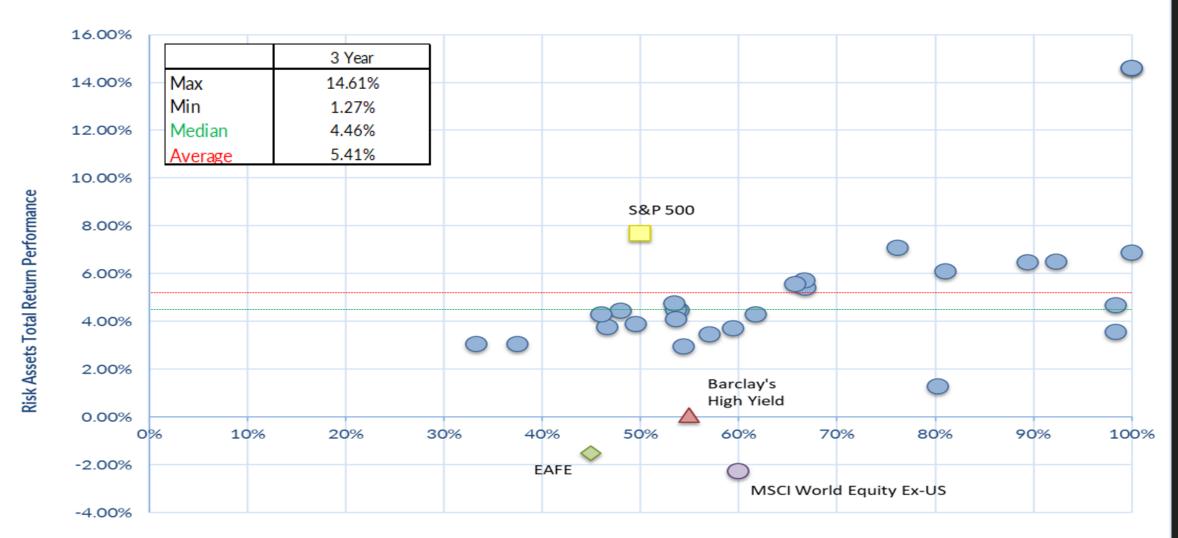


% of Risk Assets Allocation to U.S. Equity

#### Risk Assets: Three-Year Performance (Annualized)



#### **Risk Assets Performance**

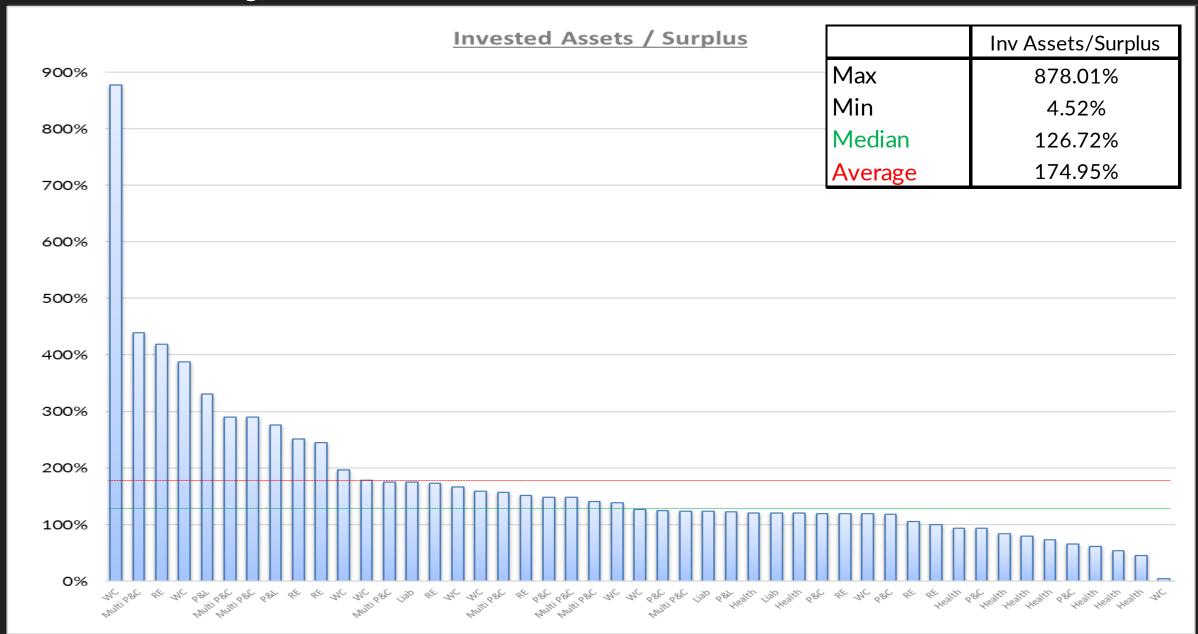


% of Risk Assets Allocation to U.S. Equity



#### **Investment Leverage**





#### Total Performance: One-Year Performance



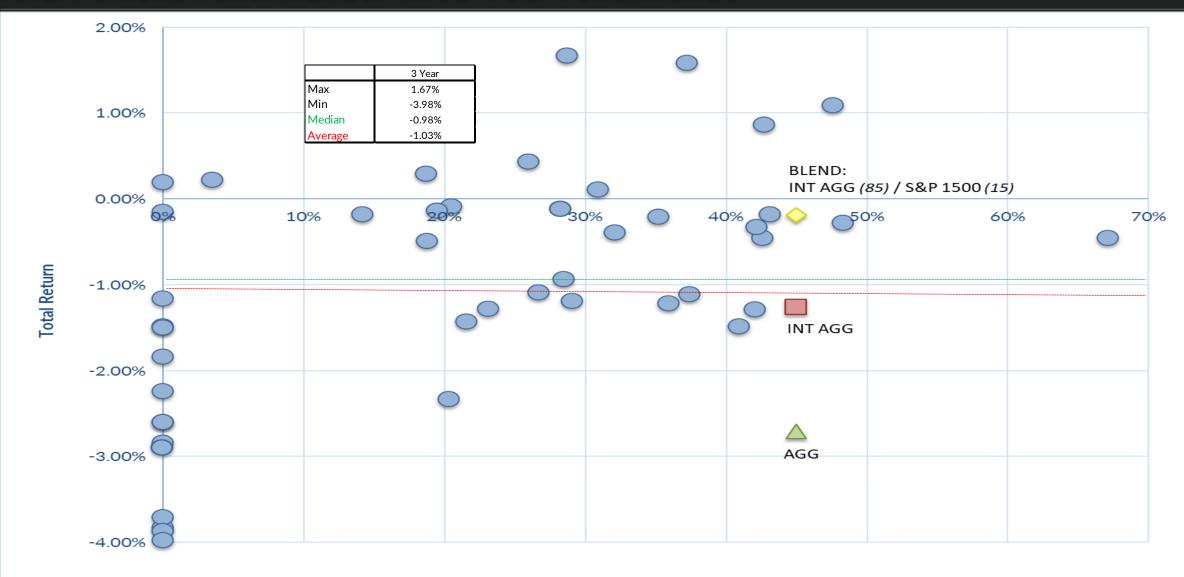


Risk Asset Allocation As % of Surplus



#### Total Portfolio Performance: Three-Year Performance





Risk Asset Allocation As % of Surplus

## Here & Now

2

- Cybersecurity
- ClimateChange
- RegulatoryChange

- AgingInfrastructure
- EvolvingLiabilities
- Inflation



2

- Member ValueProposition
- TechnologicalChange
- Talent & WorkforceManagement

- Reinsurance
- CapitalEfficiency

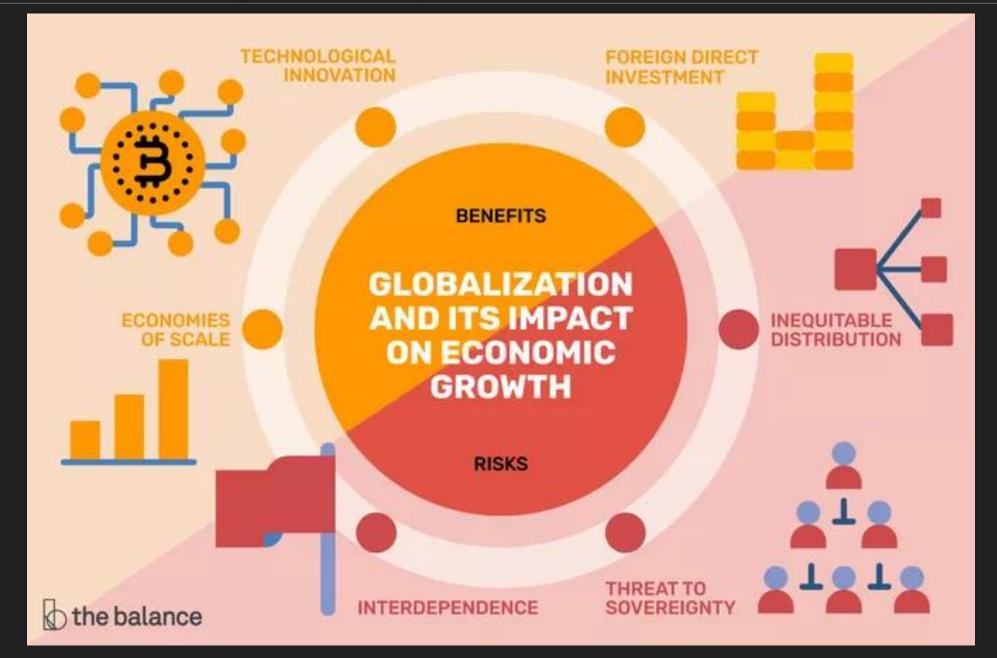




## Looking Ahead

#### Globalization – Evolving But Still Very Much Present



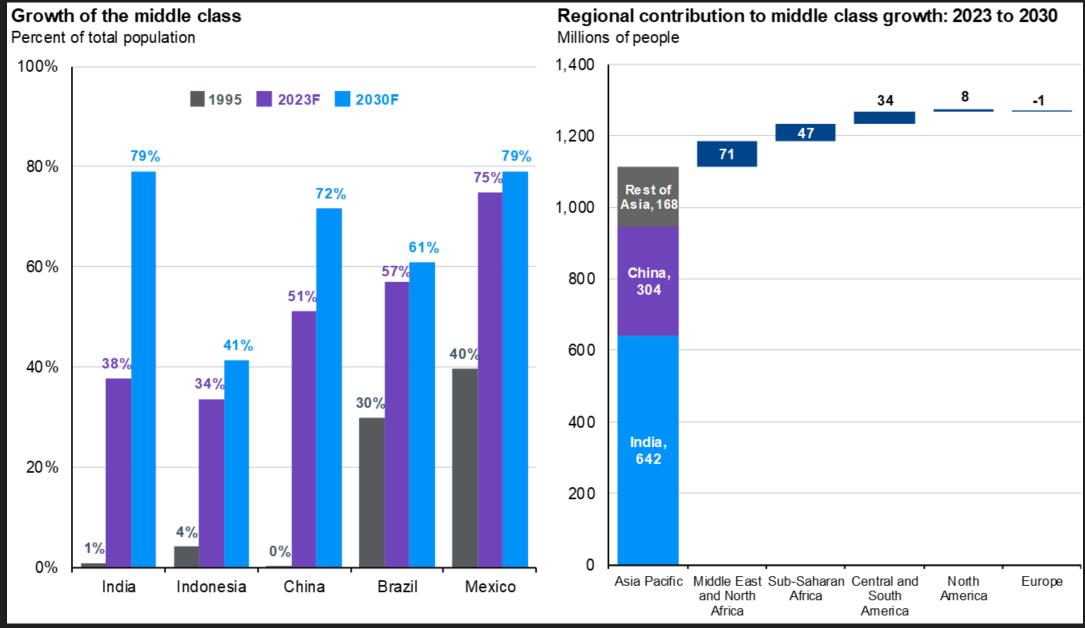


Share of domestic consumption met by inflows, 2019, %

No global region is self-sufficient nor ever will be, but the global connections are reconfiguring...

#### The emergence of the EM middle class

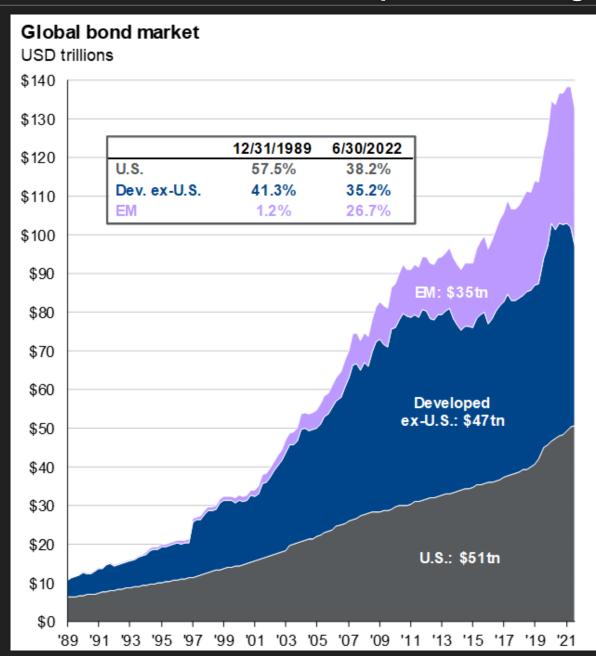






#### Global bond market – The Capital Financing Era?





- ○\$140 Trillion
- \$106 Trillion est. Global GDP
- **O**132% Debt to GDP Ratio



Sustainable Investing: What that means for pools?

#### FIFTY YEARS OF DIGITAL ASSIMILATION

2000 THE TIPPING POINT (OF NO RETURN) Web 1.0 - Connected Organizations - Dial In Websites & Search • Digital Marketing • eCommerce **VIRUSES** 2010 Web 2.0 - Connected People - 3G **Social Technologies • Media • Networking Communication** SOCIAL ENGINEERING The second second 2020 Web 3.0 - Connected Things - 5G **Smart Devices • IoT & M2M • Ambient Computing Mesh** DIGITAL RISK GROWS **DEVICE TAKEOVER** MANY RESERVE LESS SELVE ... 2028 Web 4.0 - Virtual Intelligence - 8G? AI, ML, DL Ecosystem • Ambient Intelligence Mesh MI EXTORTION/CORRUPTION 2045 Web 5.0 - Augmented Capabilities - 10G? Wearables/Implantables • Transhumanism AUGMENTATION EXTORTION/CONTROL

Source: AGRIP Spring 2022, Scott Klososky Keynote, March 8, 2022



### **POLICY FORUM**

#### The growing influence of industry in AI research

Industry is gaining control over the technology's future

NUR AHMED, MUNTASIR WAHED, AND NEIL C. THOMPSON Authors Info & Affiliations



## Things to Consider

## Olnvestment income:

- Is a cornerstone to the risk transfer business model, and...
- maximizing risk-adjusted investment income can mean the difference between remaining competitive or losing members to aggressive pricing.

- O How much can you expect to earn?
- O How much risk are you willing to prudently take?
- What liabilities are you funding by design or presumption?
- O"NEW" How much reinsurance is available and at what cost?

### <u>Investment Performance Objectives</u>

Where do you fall on this objective continuum and why?

Book yield 'or' Income Only

**Constrained total return** 

**Total return** 

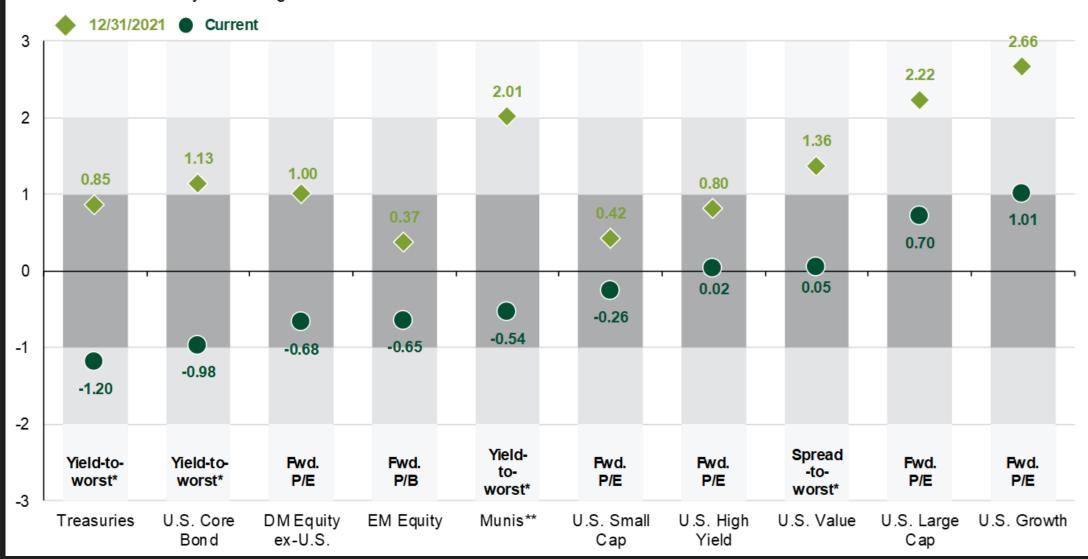
Most Risk Pools & Insurers

#### Valuations Monitor (Latest 20 Years)



#### Asset class valuations

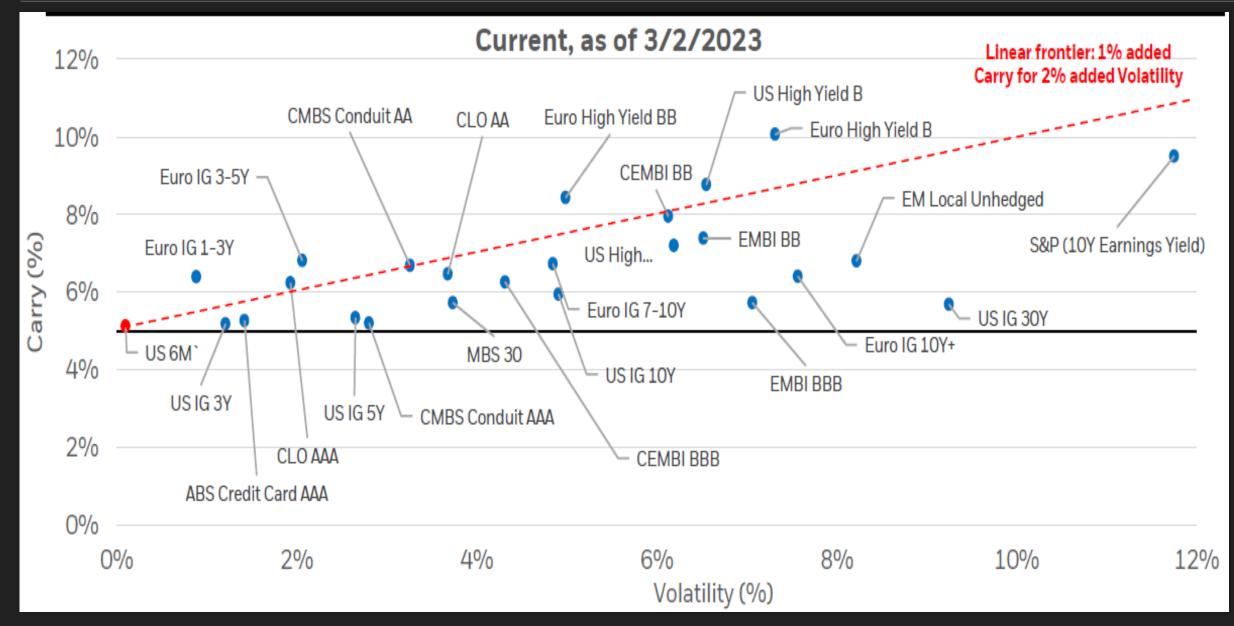
Z-scores based on 20-year average valuation measures





#### Tactical - Cash, Carry and Volatility Today



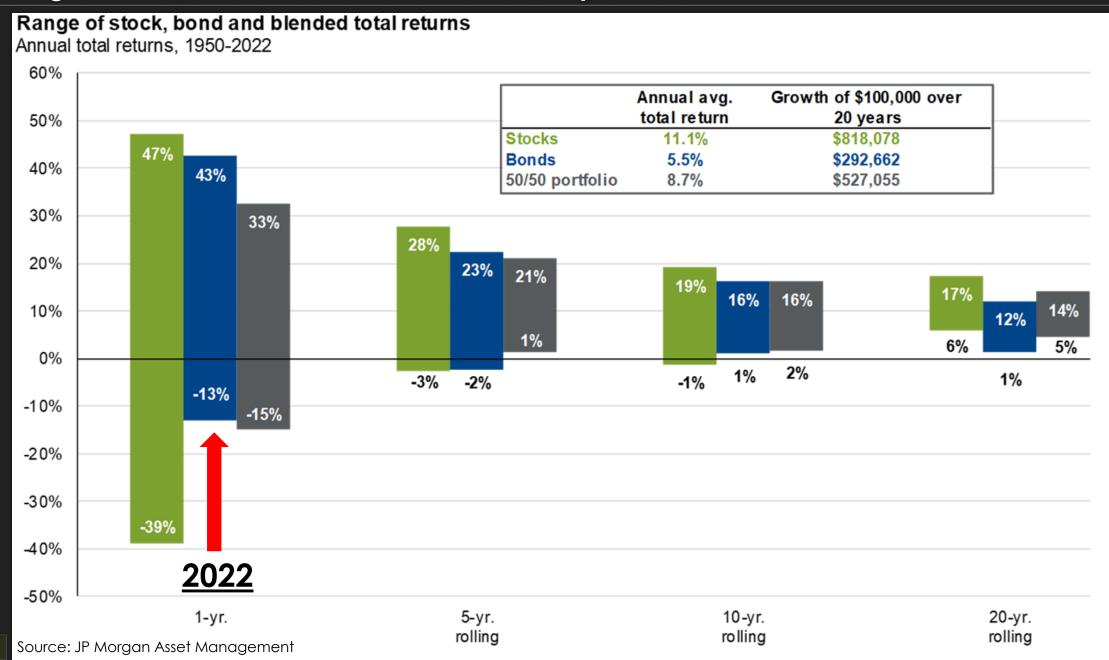




Source: BlackRock

#### Strategic - Time, Diversification and the Volatility of Returns





#### Considerations – Investment Process

- OHow is your investment process addressing these trends?
  - OAsset allocation (Yield vs. Growth)
  - OEnterprise risk management modeling vs. culture
  - OBoard/staff education
    - (data vs. information vs. knowledge)
  - Olnvestment policy flexibility
  - Captive formation

### Considerations – Investment Process cont.

- OHow is your investment process addressing these trends?
  - OInternal Staffing
  - Olnvestment manager(s)
  - Olnvestment advisors
  - OInvestment manager Technology platform & flexibility
  - OInvestment accounting & reporting