## **Principles of Asset Allocation**

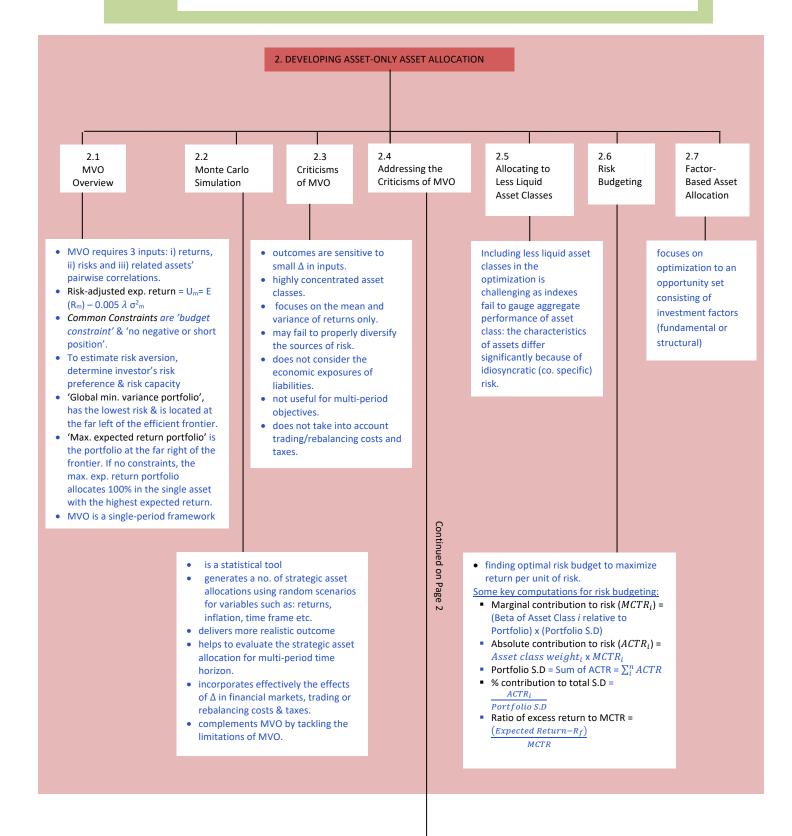


S.D = standard deviation

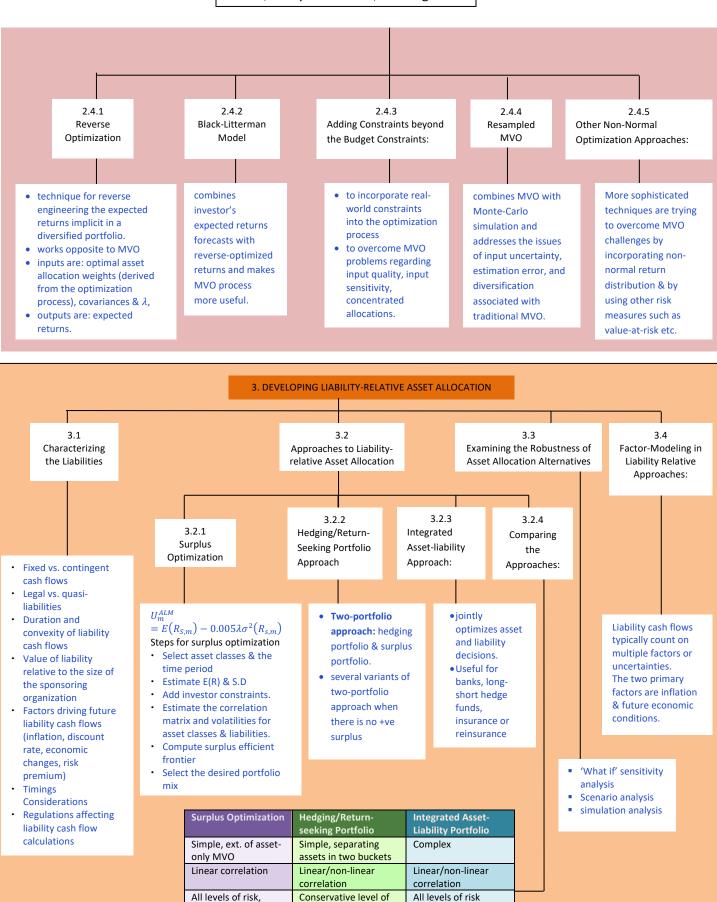
## 1. INTRODUCTION

Two separate decisions for a diversified multi-asset class portfolio includes:

- Asset allocation decision translating the client's goals & constraints into an appropriate portfolio.
- Implementation decision determining specific investments



## 2021, Study Session # 5, Reading # 13



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Can be constructed

using a factor model

+ve funded ratio for

basic approach

**Single Period** 

Can be constructed

using a factor model

Any funded ratio

**Multiple Period** 

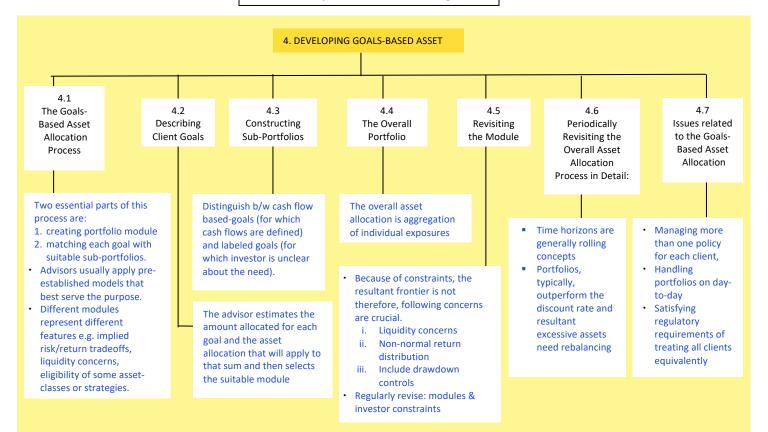
Assumptions similar

to Markowitz model

Any funded ratio

Single period

## 2021, Study Session # 5, Reading # 13



5. HEURISTICS AND OTHER APPROACHES TO ASSET ALLOCATION

Some other offhand techniques for asset allocation

- 120 minus your age rule
- 120 minus age = equity allocation
- 60/40 stock/bond heuristic
- Endowment Model or Yale model allocates large portion to non-traditional investments (private equity, real-estate)
- **Risk Parity** (each asset class should contribute evenly to the overall portfolio risk). Mathematically:

$$w_i \times Cov(r_i, r_P) = \frac{1}{n}\sigma_P^2$$

• The 1/N rule involves allocating equal % to each of (N) asset classes.

		TFOLIO ANCING IN ICE
Factors & their relation with corridor width		Effect on optimal width of corridor (all else equal)
Transaction costs +ve		1 transsaction cost, wider the corridor
Risk tolerance +	/e	↑ risk tolerance, wider the corridor
Correlation with the rest of the portfolio +ve		↑ correlation, wider the corridor
Volatility of the rest of the portfolio -ve		1 volatility, narrower the corridor