

Investing in India through Mutual Funds

A Process to Add Reliability, Compatibility and Predictability



Process Snapshot

1. Risk Tolerance

- a) Psychometric Profiling using Finametrica

2. Risk Capacity

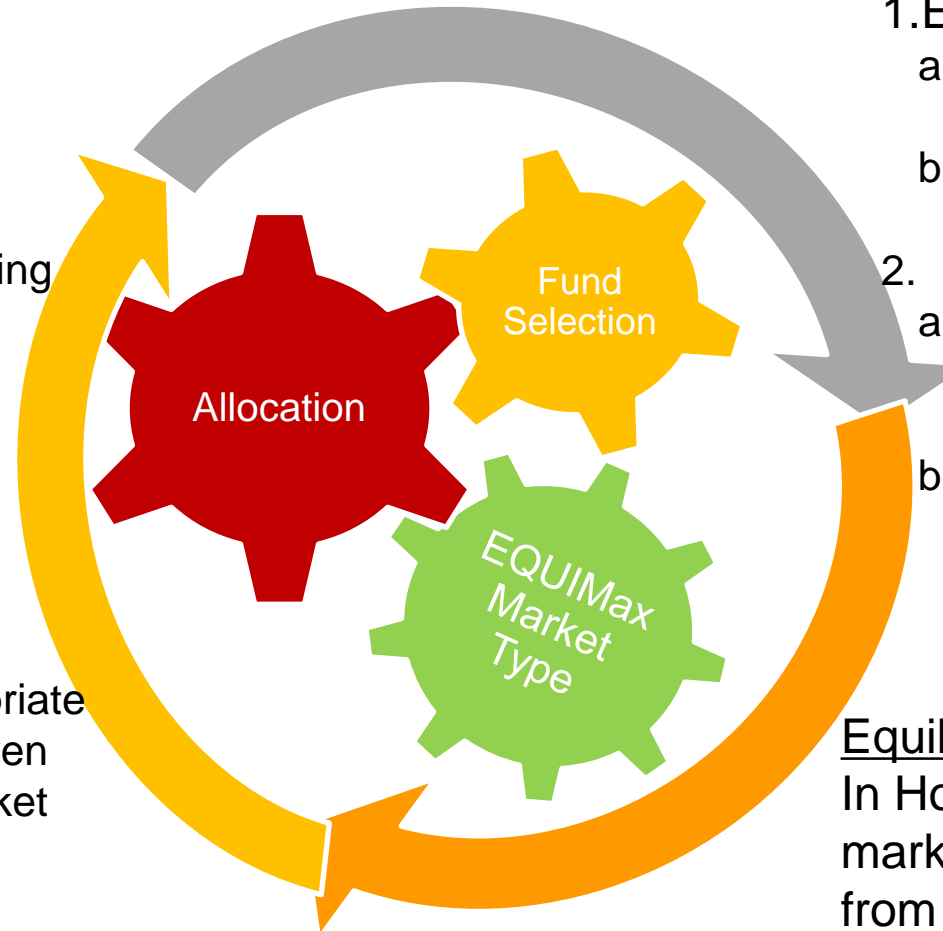
- a) In House profiling

3. Risk Required

- a) Based on expected return calculations

4. Allocation

- a) Determining appropriate equity allocation given risk profile and market type
- b) Debt allocation is a residual decision



Fund Selection

1. Equity

- a) Forward-looking based on market type
- b) Based on reliability rather than absolute returns

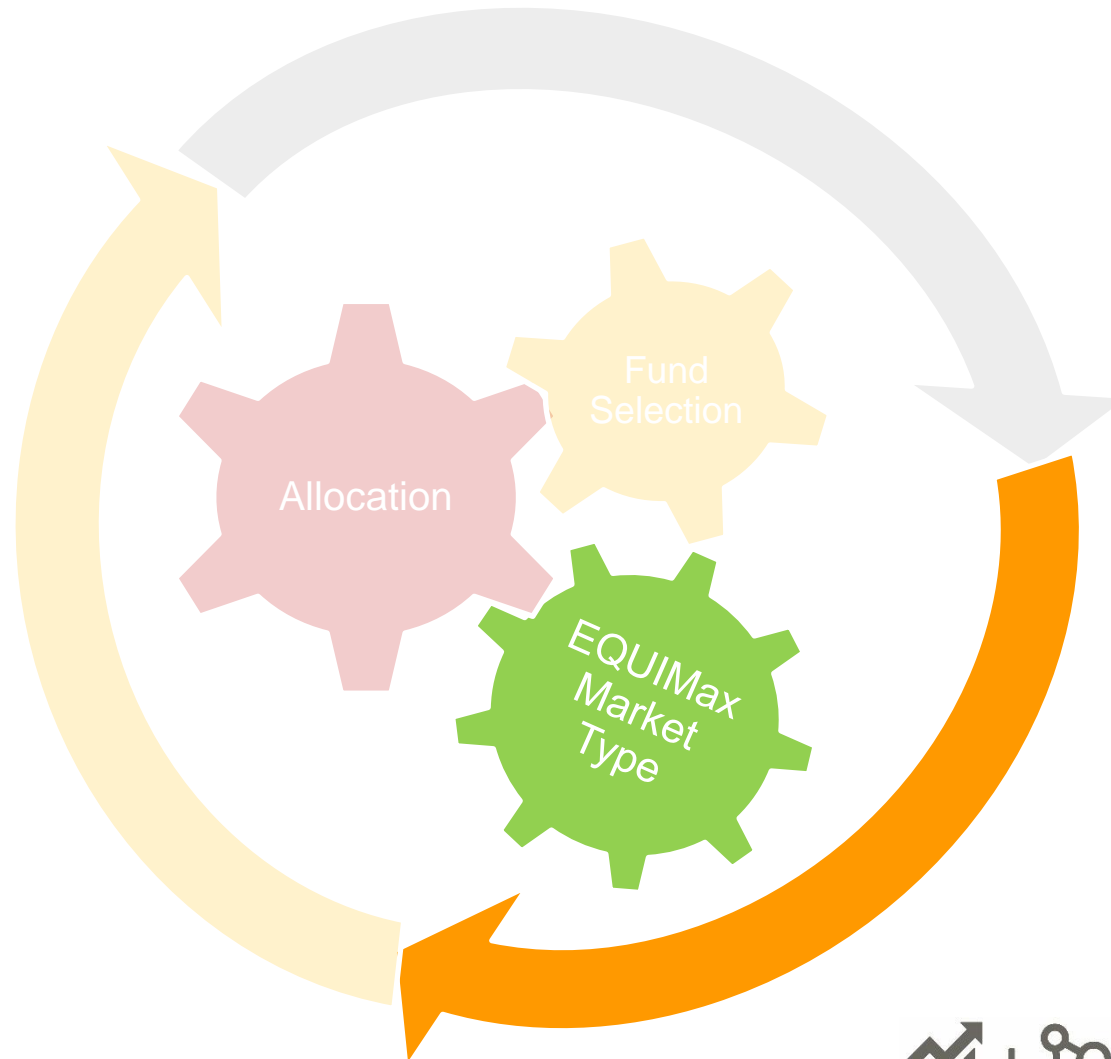
2. Debt

- a) 50:50 allocation to dynamic and medium-term bond funds
- b) Selection based on best and worst period performances for dynamic and credit profile for medium-term funds

EquiMax

In House model of equity market attractiveness going from 1 (invest/add) to 6 (exit/reduce)

EQUIMAX MARKET TYPE



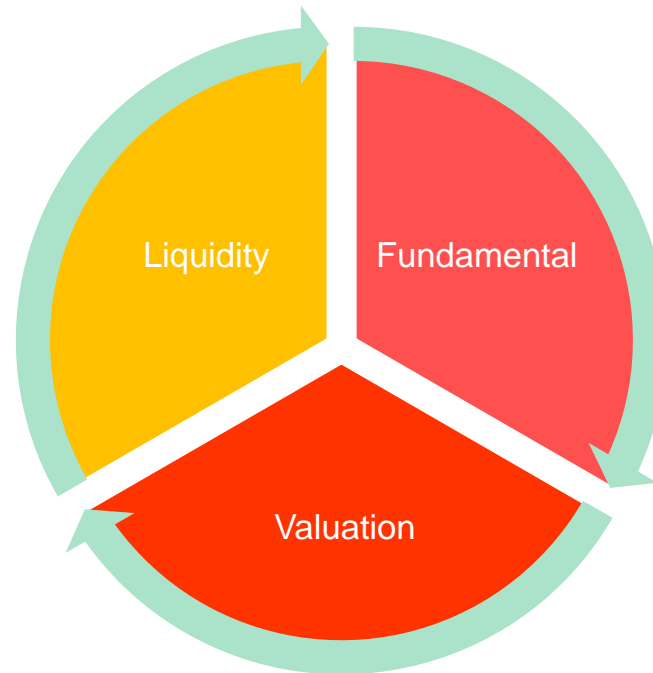
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Data, Strategy and Customization for Growth

EquiMax Parameters

Assessment of money making opportunities for money to flow into India equities



Balance Sheet and P&L determinants

Historic Valuations (no forward look) and possibility of expansion

Equity Indices classified into six types from Mtype1 to Mtype 6 based on variables selected from the above three areas on daily basis

EquiMax- Rolling 1Y Returns (Nifty)

Mtype	Instances	Average	Max	Min	Neg Prob
1	917	51%	105%	-5%	2.0%
2	408	28%	86%	-17%	3.2%
3	525	21%	58%	-10%	4.6%
4	778	12%	56%	-26%	10.9%
5	708	2%	48%	-41%	45.9%
6	884	-17%	44%	-56%	87.9%
TOTAL	4220	15%	105%	-56%	29.4%

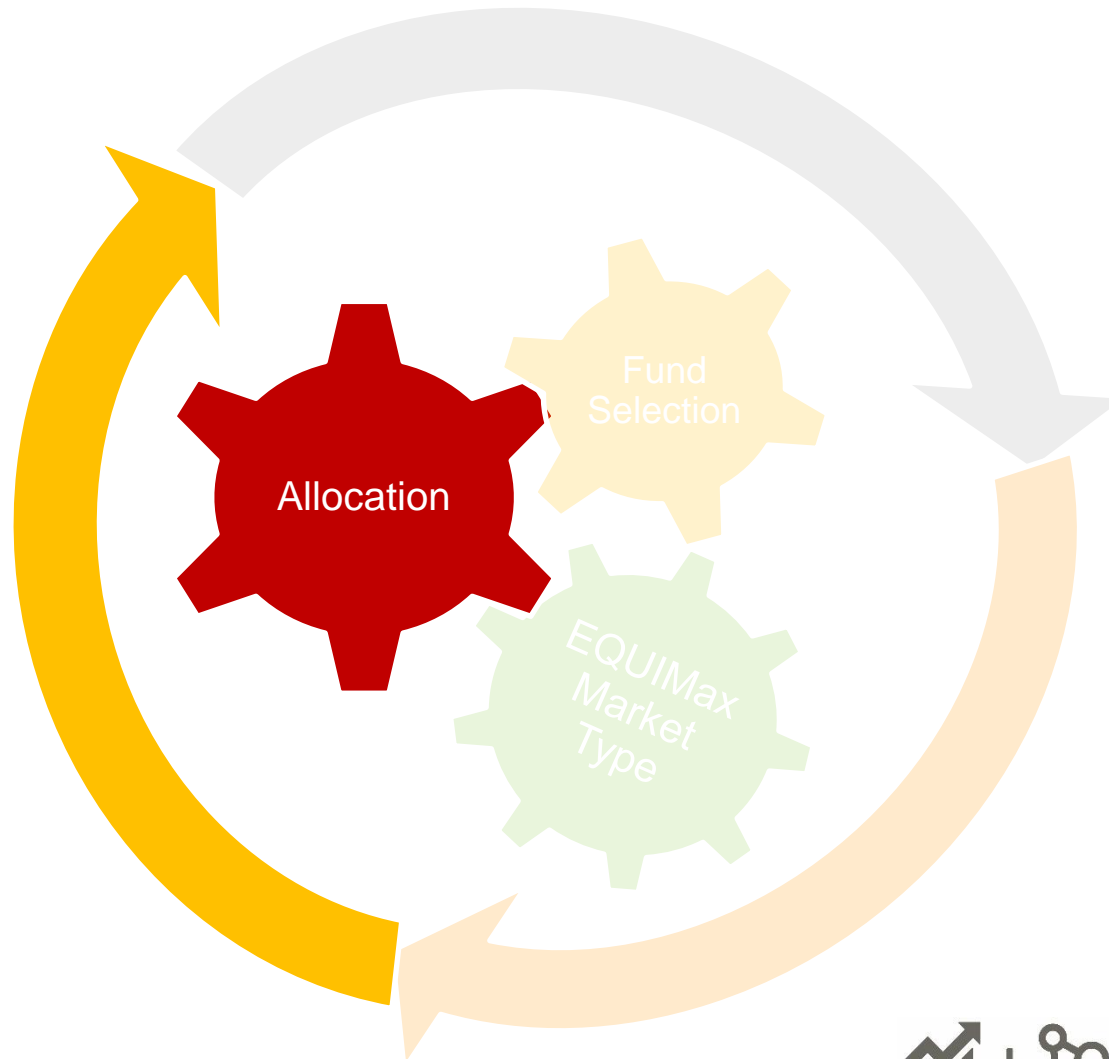
Hold, add if index falls, reduce if it rises

Buy or be at higher end of decided allocation range

Sell or be at lower end of decided allocation range

- Nifty data up to Dec 6, 2017. Model formulation and calculations in-house

ALLOCATION

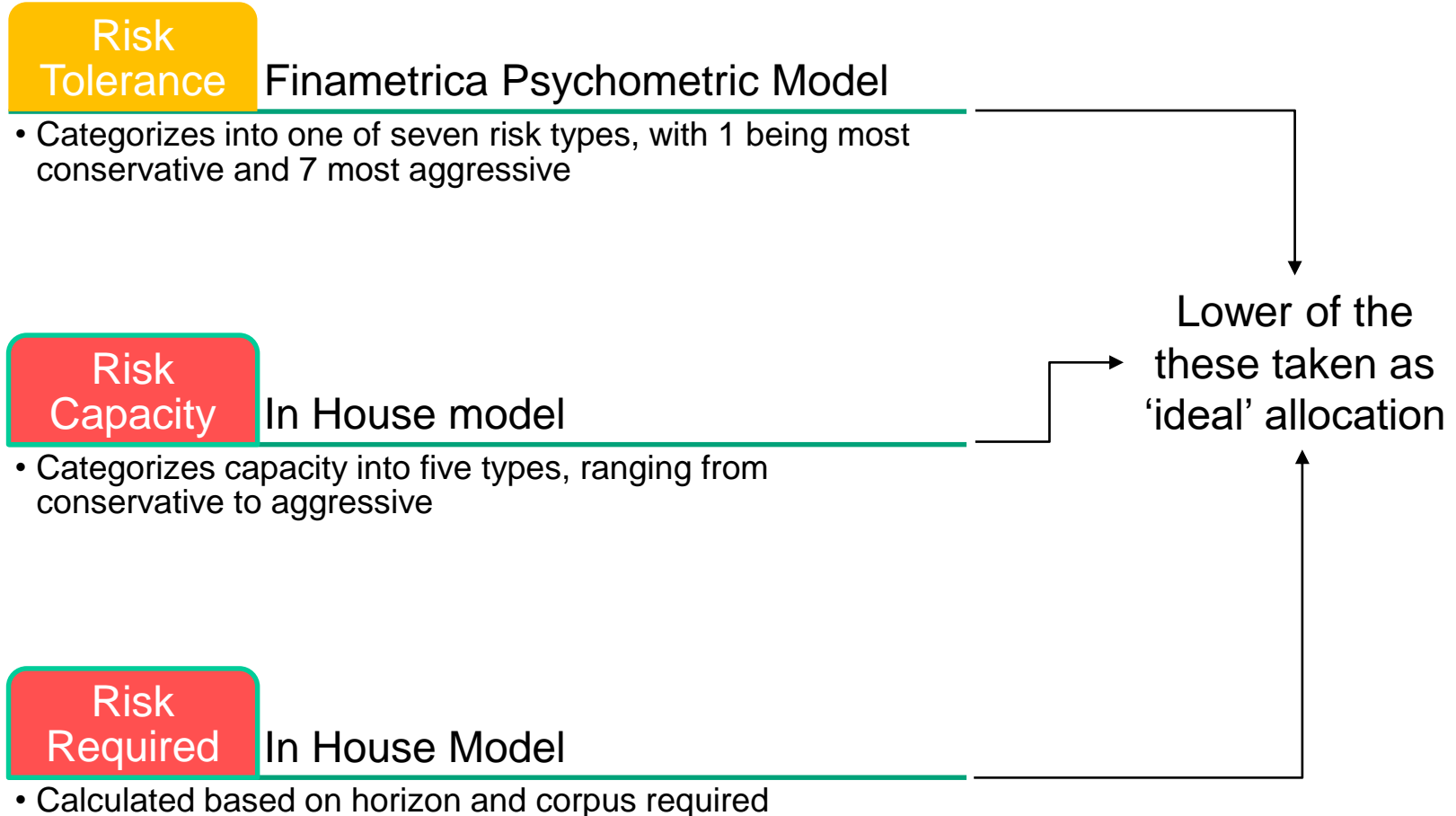


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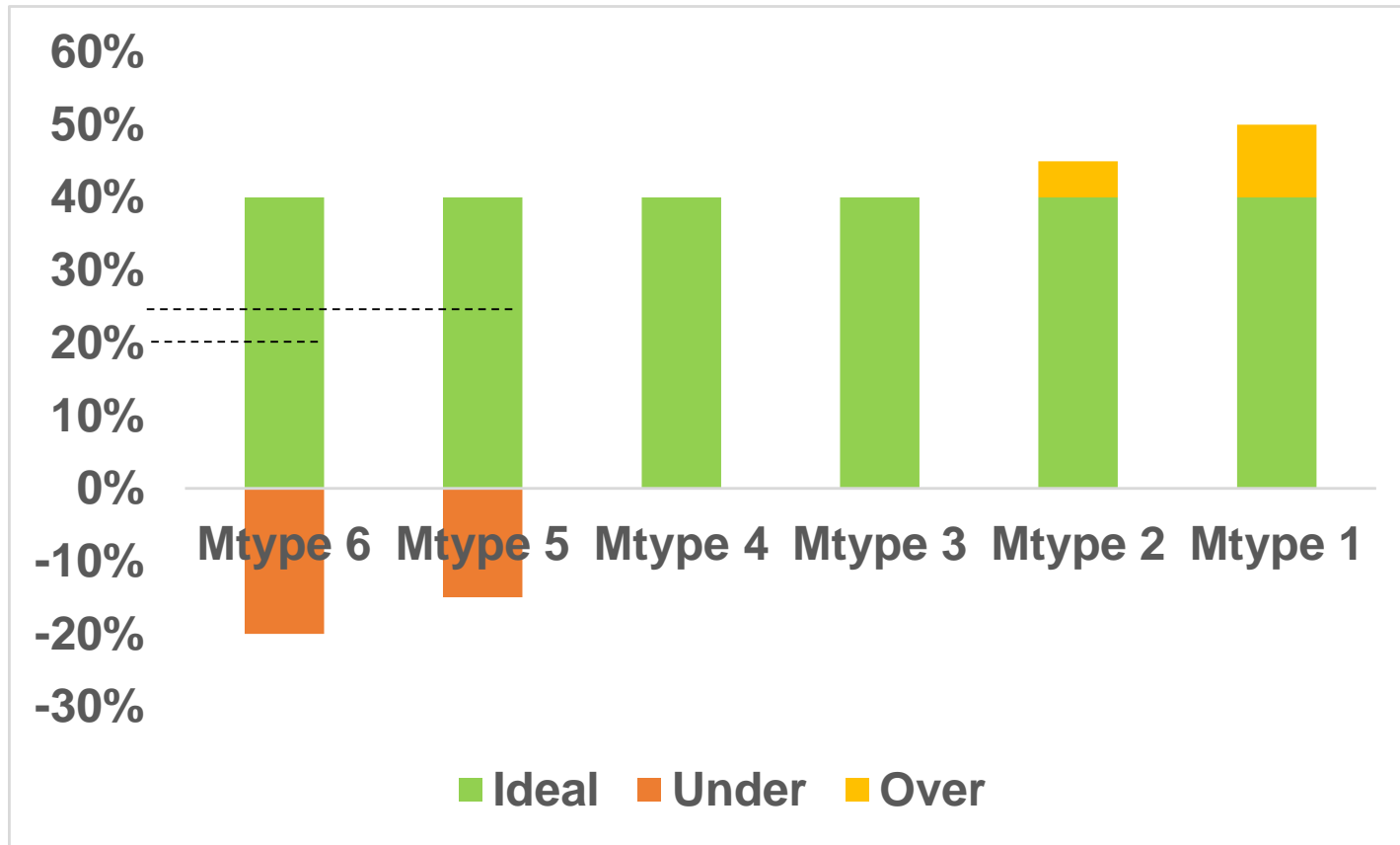
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Determining Allocation

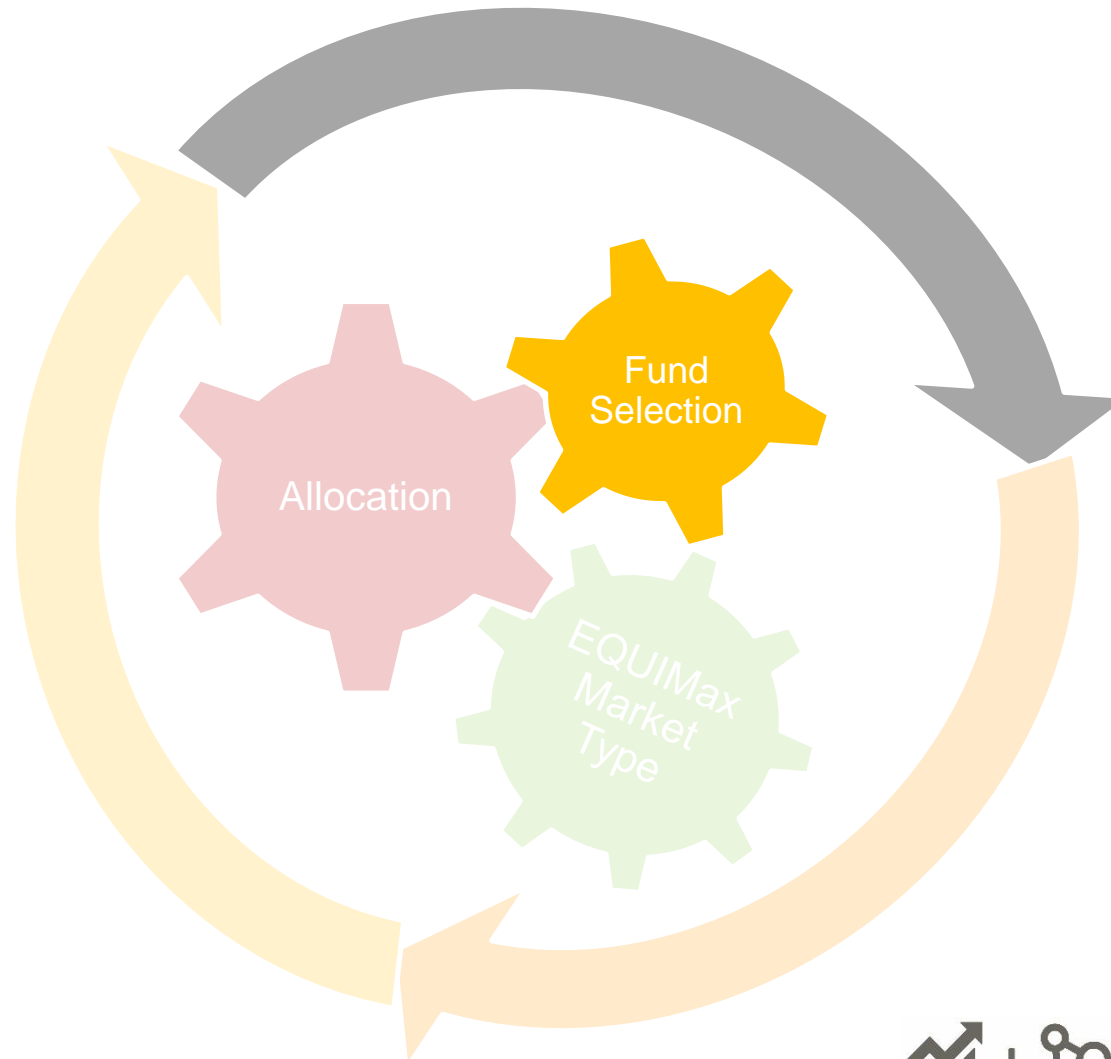


Executing Allocation- An Illustration

Equity Allocation- Ideal taken as 40%



FUND SELECTION

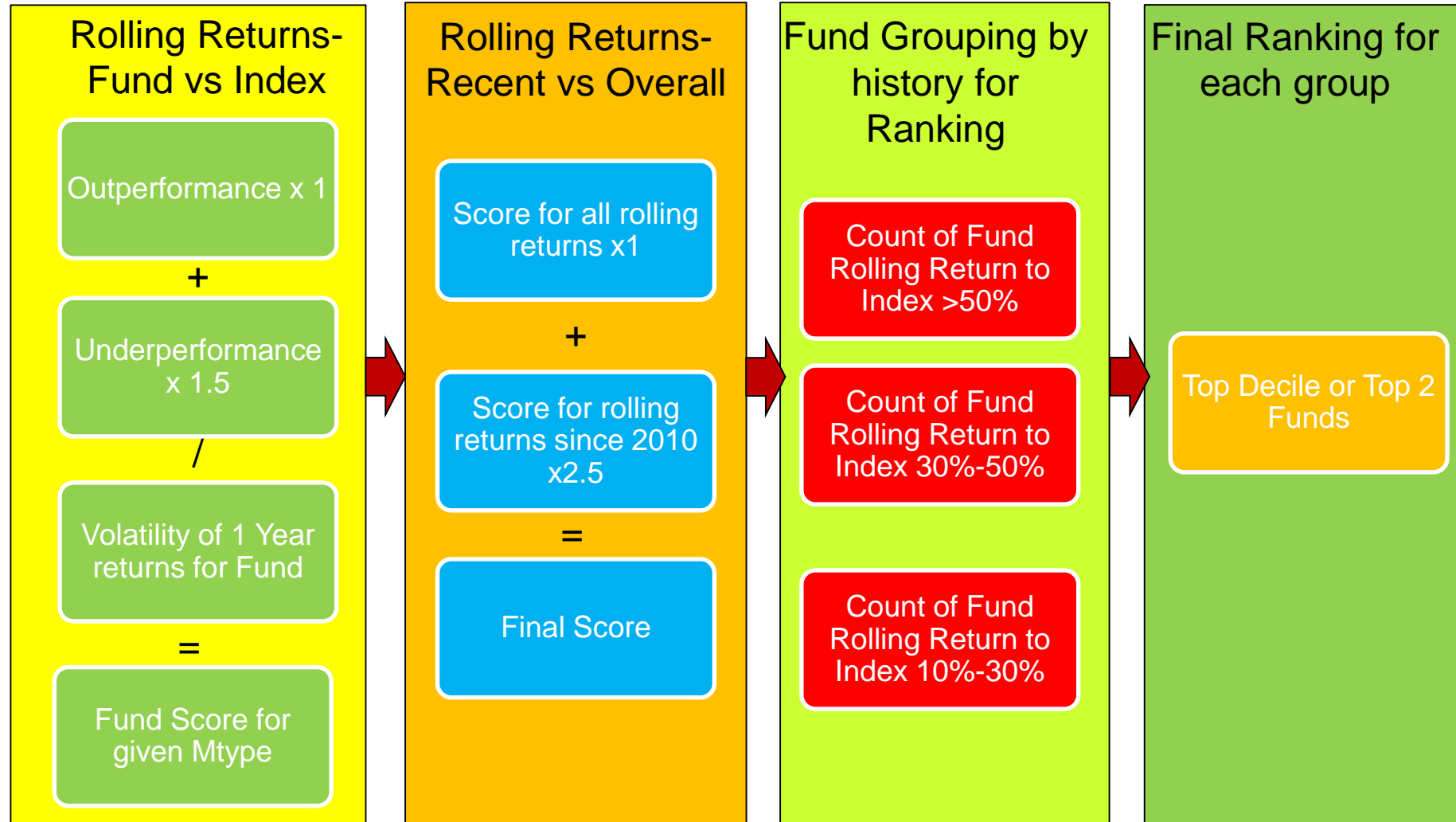


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Equity Fund Selection



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Debt Fund Selection

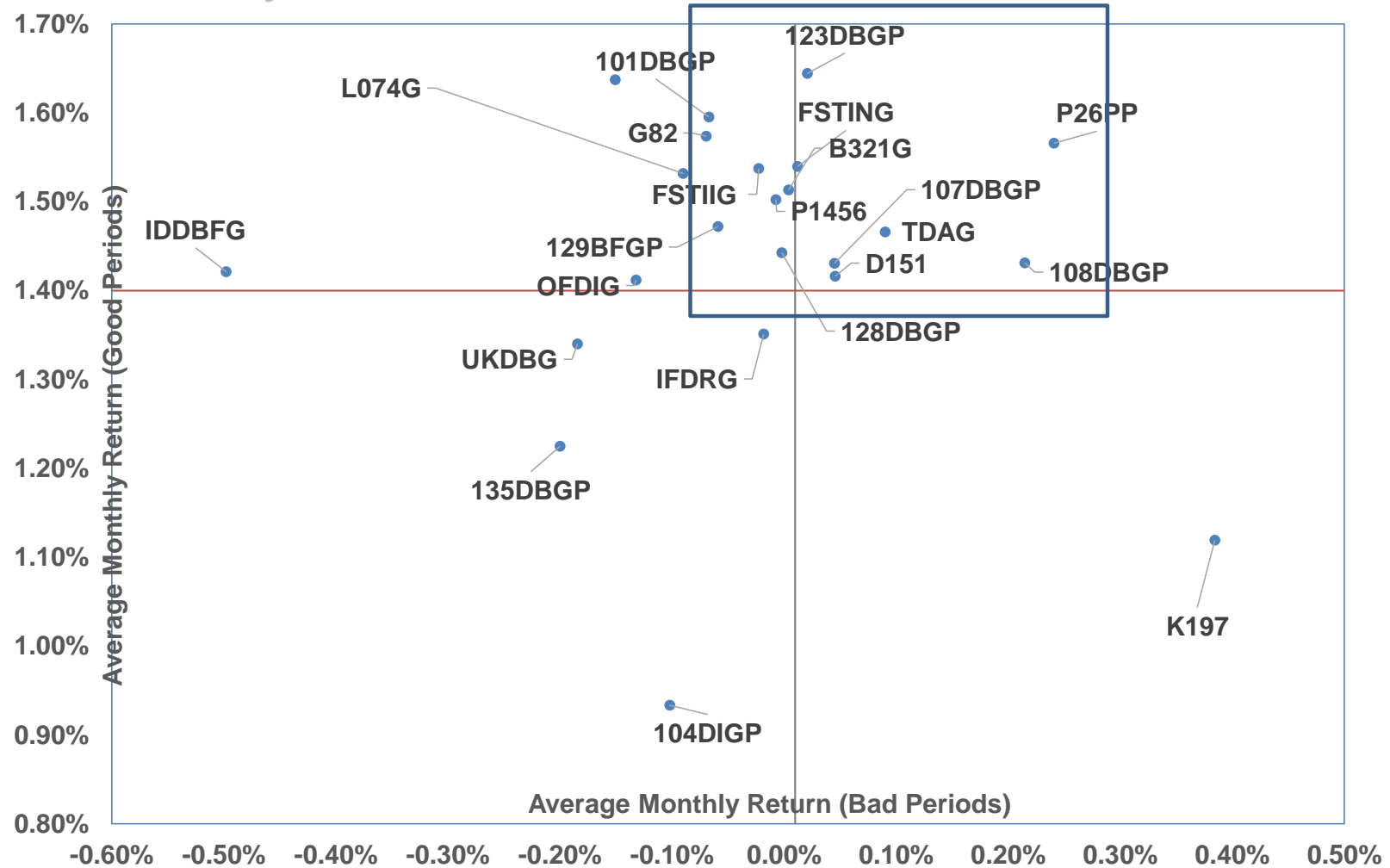
Methodology

- The monthly return of each fund was computed on a daily basis, from 18th July 2012 to 30th Nov 2017.
 - This gives us 1291 one-month returns for each fund.
 - Each of these 1291 periods were also categorized as good (The adjusted* yield on benchmark 10 Year Gsec came down over the month) or bad (the benchmark yield went up).
 - ❑ There were 615 periods when the yields rose (bad)
 - ❖ Average rise across these periods was 0.18%
 - ❖ The maximum rise (i.e. worst one-month period) was for the month ended Aug 20, 2013- yield rose 1.32%
 - ❑ There were 676 periods where the yields went down (good).
 - ❖ Average fall over these periods was 0.16%.
 - ❖ The best month (i.e when the benchmark yield fell the most) was during the period ended 19th Sep 2013- yield fell by 1.22%.
- Returns of fund categories as well as individual funds within each category were compared across these periods to isolate their performance characteristics
 - This was then used to shortlist the optimal funds in each category based on how they performed in the good and bad periods



Debt Fund Selection

Illustration- Dynamic Bond Funds

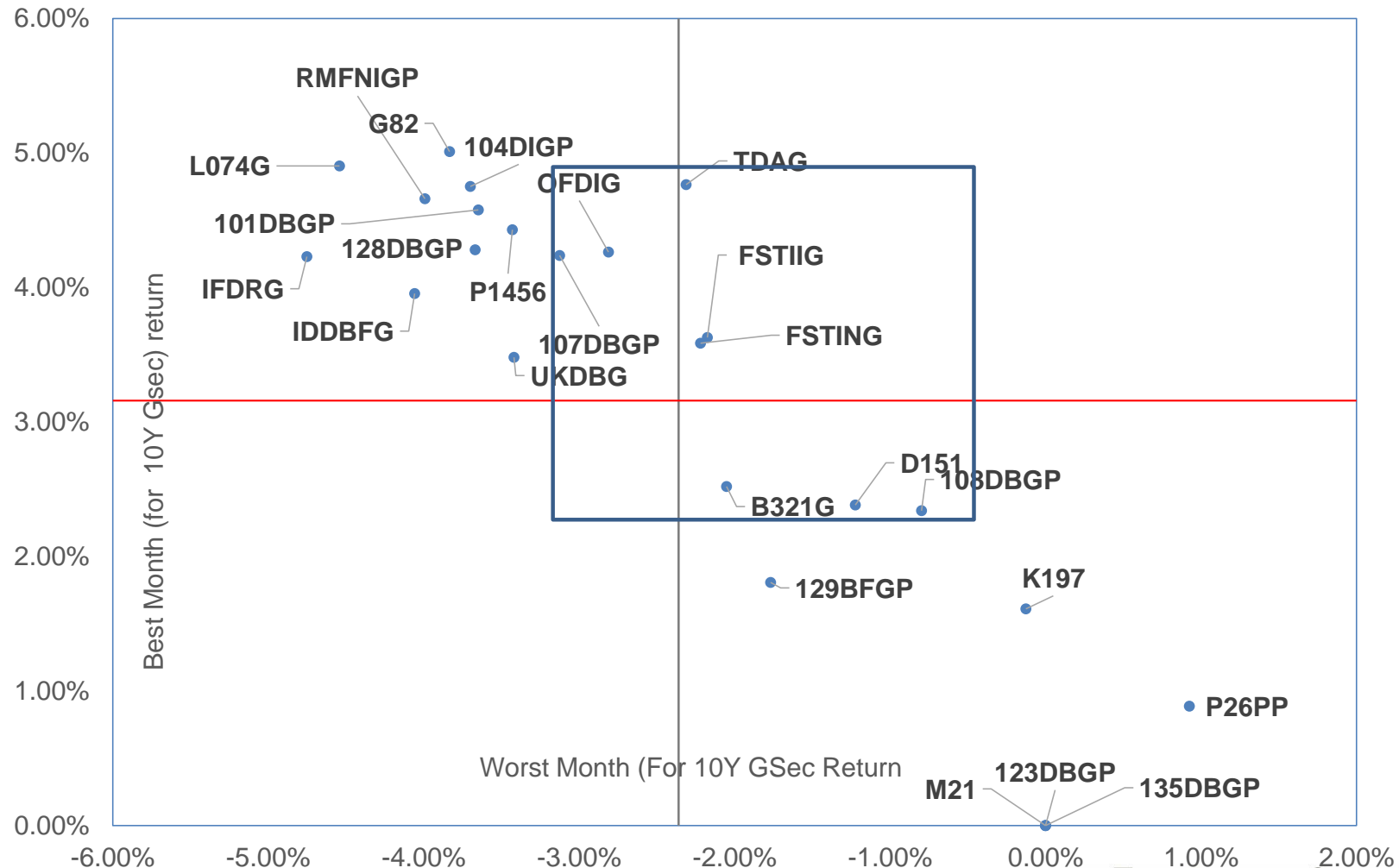


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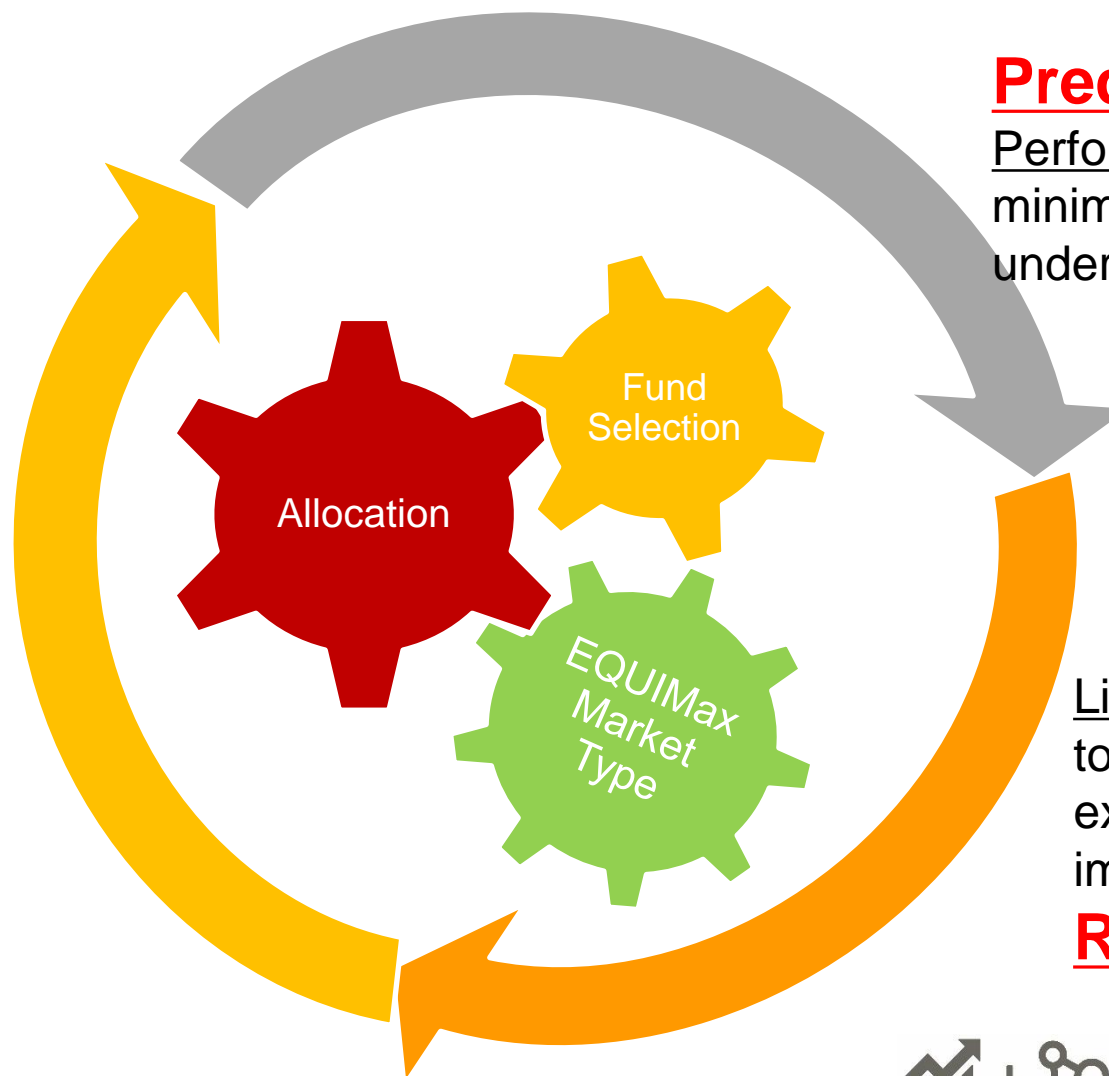
Debt Fund Selection (contd)

Illustration- Dynamic Bond Funds



In Summary

Dynamic Allocation
to be
compatible with
the investor's
tolerance and
capacity



Predictable
Performance to
minimize risk of
under-performance

Limited Timing
to reduce
extremes and
improve
Reliability

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Process snapshot

EquiMax

In House model of market types
1 (invest) to 6 (exit)



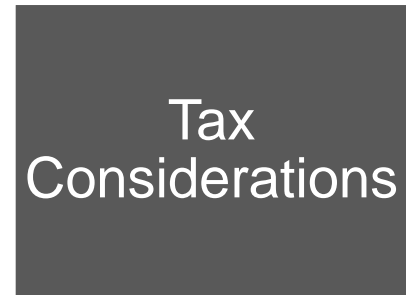
Allocation

Determining appropriate allocation given risk tolerance and capacity



Selection

Determining reliable funds in each category given market type



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