

# DSP

*#INVESTFORGOOD*

## DSP Dynamic Asset Allocation Fund



| People | Processes | Performance |

December 2020

# DSP Dynamic Asset Allocation Fund (DAAF) – A Brief Overview

## WHAT

### is DAAF ?

- Fund that **DYNAMICALLY MANAGES ALLOCATION** between equity and debt
- Fund determine core equity allocation by assessing **MARKET VALUATIONS**
- Add on to core equity allocation using **TECHNICAL SIGNALS** to participate in bull market

## WHY

### to invest in DAAF ?

- **DYNAMIC ASSET ALLOCATION**  
Reduces the need for investor to time the market
- **CAPITAL PRESERVATION**  
Potential to preserve capital during market correction
- **VOLATILITY REDUCTION**  
Can control portfolio level volatility thereby enabling smoother investor experience

## WHO

### should invest in DAAF ?

- **NEW INVESTORS**  
A way to gain exposure to equity markets with potentially lower volatility
- **INTERMEDIATE INVESTORS**  
An automated\* solution for investments especially when markets are confusing
- **EXPERIENCED INVESTORS**  
Can be suitable for combining with other exposures in an asset allocation model

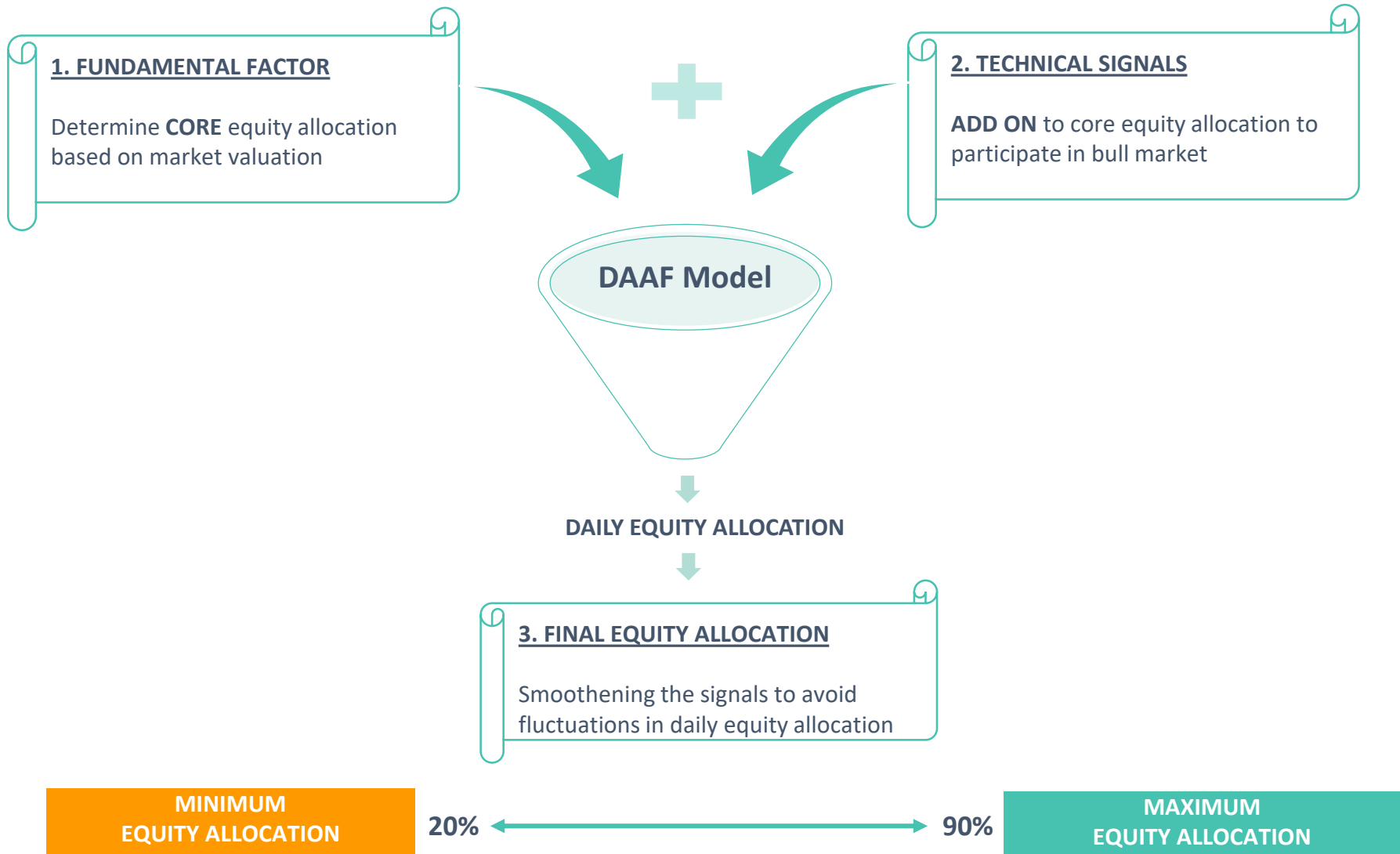
**Fund that allocates between Equity and Debt based on attractiveness of equity markets, which can be suitable for all types of investors**



# Decoding Asset Allocation model

*(How equity allocation is determined?)*

# DAAF model – Process Overview



# 1. Fundamental factor determining CORE equity allocation

What fundamental factors are used to determine valuation attractiveness of Equity Market?

- DAAF Model uses Price to earnings (P/E) & Price to Book (P/B) of Nifty 50 to determine valuation attractiveness

Why P/E & P/B ?

- P/E & P/B ratios provides comprehensive assessment of the valuation of companies in the Nifty 50 index

Trends in P/E & P/B ratios for the Nifty 50



Source: NSE Indices, Internal. Data as of 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index.

PRICE / EARNINGS (P/E) RATIO OF THE NIFTY 50

A measure of the **EARNINGS POWER** of companies in the Nifty 50

PRICE / BOOK (P/B) RATIO OF THE NIFTY 50

A measure of the **NET ASSET VALUE** of companies in the Nifty 50

Links P&L statement with balance sheet

# 1. Fundamental factor determining CORE equity allocation

## How P/E & P/B of Nifty 50 used in the model?

- Model assigns **percentile score** to the current P/E & P/B ratios of Nifty 50 **relative to its history** on daily basis.
- Percentile score denotes how expensive / cheap, current valuations are relative to its history.
- Expensive valuation - Higher percentile, Cheap Valuation – Lower percentile
- **COMPOSITE VALUATION SCORE** is then arrived by taking **equal** weighted average of P/E & P/B percentile score

Let's understand with an example

### P/E Percentile score

Current P/E = 28  
Historical P/E range = 10 to 30

Since current P/E is expensive relative to its history, the percentile score for the same will be higher (say 90)

### P/B Percentile score

Current P/B = 3.0  
Historical P/B range = 2 to 6

Since current P/B is cheap relative to its history, the percentile score for the same will be lower (say 20)

### COMPOSITE VALUATION SCORE

Composite Valuation score shall be equal weighted average of percentile score of P/E & P/B

i.e.  $(90+20)/2 = 55$

P/E & P/B relative to its history is used to determine attractiveness of the market

# 1. Fundamental factor determining CORE equity allocation

How is COMPOSITE VALUATION SCORE used to determine CORE equity allocation ?

- As defined earlier, Composite valuation score is average of P/E & P/B percentile score and shall range between 0-100
- Composite valuation score is plotted in the below table to determine **core** equity allocation

LOWER RANGE	HIGHER RANGE	EQUITY ALLOCATION
0	10	90%
10	20	90%
20	30	80%
30	40	70%
40	50	60%
50	60	50%
60	70	40%
70	80	30%
80	90	20%
90	100	20%

## Understanding Valuation table

- Let's take e.g. where Composite Valuation score is 55.
- The score lies in the band 50-60 and accordingly **CORE** equity allocation shall be 50%

(Equity allocation determined by model will always be in multiple of 10%)

Higher Composite Valuation Score ==> Higher valuation of Equity markets ==> Market is less attractive ==> **LOWER ALLOCATION TO EQUITIES IN THE MODEL**

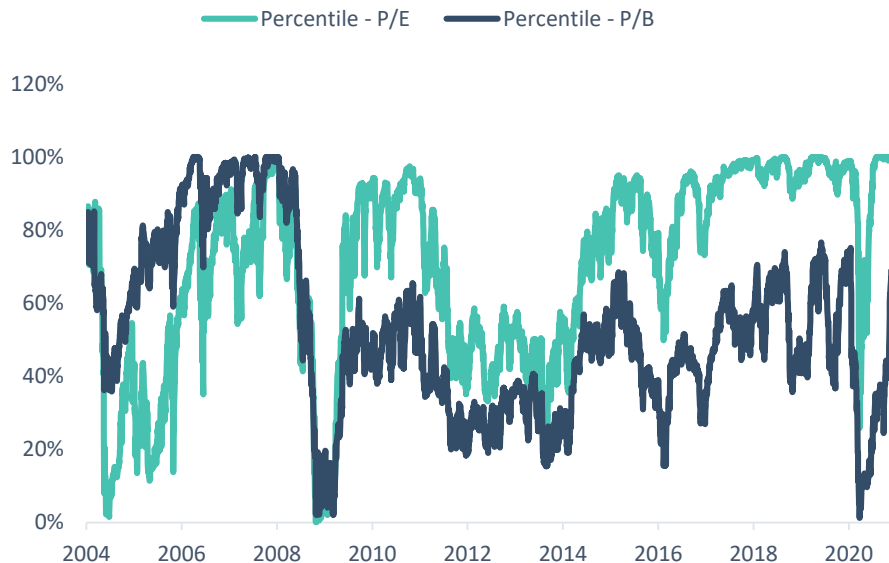
Lower Composite Valuation Score ==> Lower valuation of Equity markets ==> Market is more attractive ==> **HIGHER ALLOCATION TO EQUITIES IN THE MODEL**

# 1. Fundamental factor determining CORE equity allocation

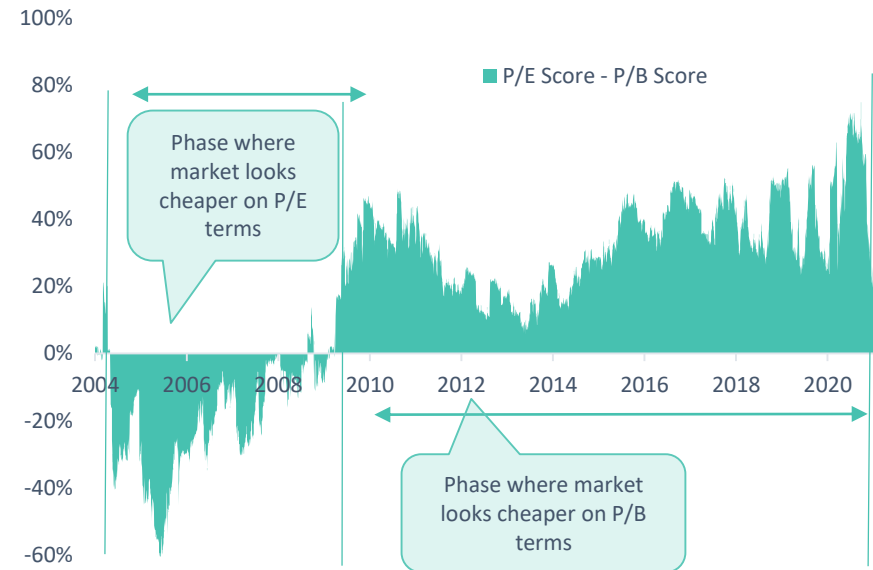
Why is model combining P/E & P/B? What are the issues of using either P/E or P/B on a standalone basis ?

- Market attractiveness differs across phases if P/E or P/B considered on standalone basis

## Comparing historical P/E & P/B percentile score of Nifty 50



## Difference between P/E & P/B percentile score



Source: NSE Indices, Internal. Data as of 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index.



# 1. Fundamental factor determining CORE equity allocation

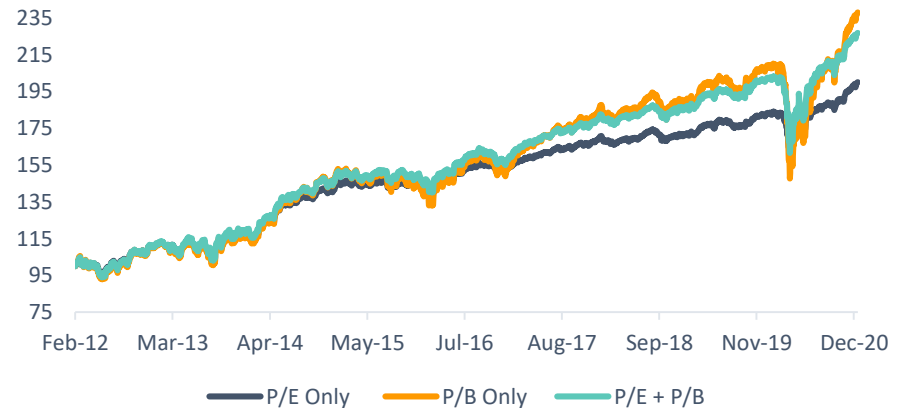
Why is model combining P/E & P/B? What are the issues of using either P/E or P/B on a standalone basis ?

➤ Model based on P/E or P/B on standalone basis would have underperformed in some phases due to under-allocation to equity.

Comparing models based on different inputs (2004 – 2012)



Comparing models based on different inputs (2012 – 2020)



Using just P/B

Under - allocated to equities in various times from 2004 – 2012

⇒ Model using P/B only underperformed model using P/E only

Using just P/E

Under - allocated to equities in various times from 2012 – 2020

⇒ Model using P/E only underperformed model using P/B only

Source: NSE Indices, Internal. Data as of 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Expenses ratio of 2.3% assumed for the DAAF Model. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.

## 2. Technical signals – ADD ON to capture uptrends

### Why is technical signal used?

Technical signal is used to capture market uptrend by adding **10%** to **CORE** equity allocation

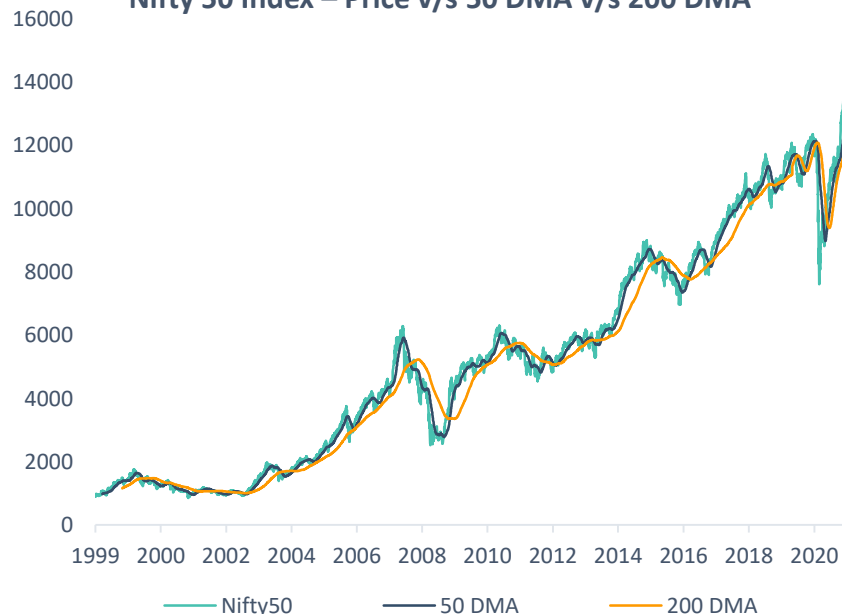
### What factors are evaluated to determine uptrend?

Model uses technical indicators like immediate, medium & long term market trend to determine uptrend.

### How are Technical indicators measured ?

Immediate market trend	Nifty 50 Index level
Medium term market trend	50 DMA of Nifty Index
Longer term market trend	200 DMA of Nifty Level

Nifty 50 Index – Price v/s 50 DMA v/s 200 DMA



Source: NSE Internal. Data as of 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. DMA stands for Daily Moving Average

### How are technical signals generated from technical indicators ?

Market trend	Definition	Signal	Model action
Uptrend	When immediate market trend crosses <b>ABOVE</b> medium <b>AND</b> long term averages	Entry Signal to capture uptrend	Add 10% to Core Equity Allocation
Downtrend	When immediate market trend crosses <b>BELOW</b> medium <b>AND</b> long term averages	Signal for exit from uptrend	Don't change Core Equity Allocation
Neither uptrend or downtrend	When immediate market trend stays above medium <b>OR</b> long term averages	Signal to stay in the uptrend if market was in <b>uptrend earlier</b>	Continue adding 10% to Core Equity Allocation
		Signal to stay in the downtrend if market was in <b>downtrend earlier</b>	Don't change Core Equity Allocation

### 3. Determining FINAL equity allocation

#### Deriving DAILY equity allocation

- Equity allocation for a day is = **Core equity allocation** from Fundamental factor + **Add on** based on Technical signal

#### How will scheme allocate its asset?

##### EQUITY

Allocation to Equity will be based on DAAF model

##### ARBITRAGE

Allocation to arbitrage opportunities to make DSP DAAF an equity oriented fund for taxation \*

##### DEBT & CASH

Allocation to debt & cash is residual to Equity & arbitrage allocation

#### Limitation with Daily equity allocation

- Daily equity allocation can fluctuate since market fluctuate on daily basis
- Frequent equity allocation change may pose difficulty for fund management
- Contrary calls within short period may increase trading cost (e.g. increasing allocation initially and within 1-2 days decreasing allocation to maintain status quo)

#### Arriving at Final equity allocation

- To overcome shortcomings in daily equity allocation, final equity allocation is arrived by taking **30 DMA of Daily equity allocation**
- This helps in smoothening the signals to reduce chances of whipsawing.

\* An equity oriented fund is fund having atleast 65% in equity & equity related securities for equity taxation.



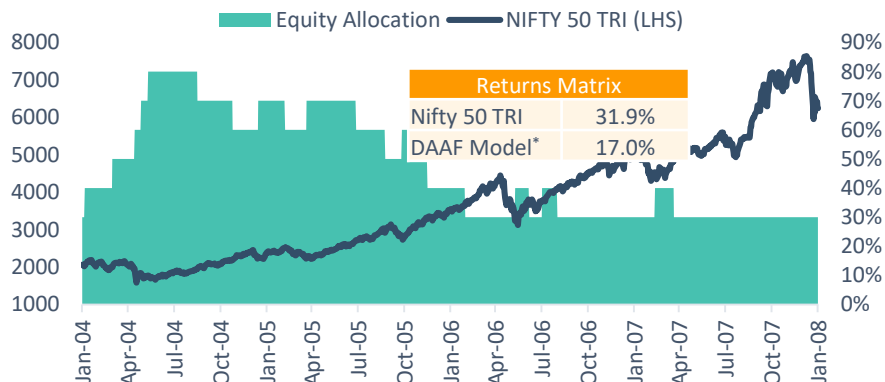
## Efficacy of DAAF model

*How has DAAF model fared in achieving its objective?*

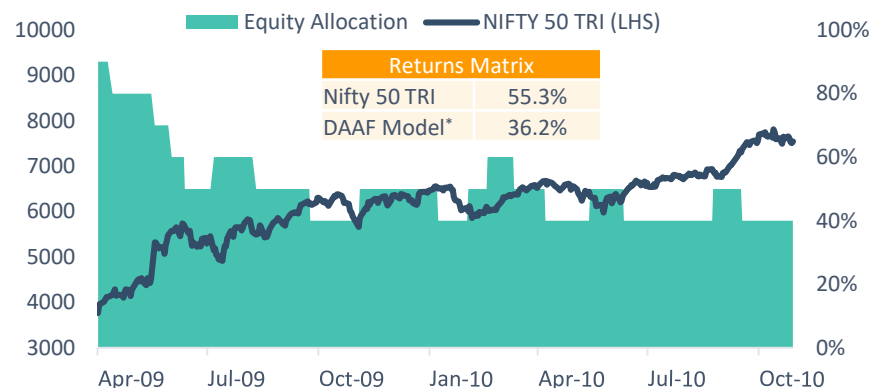
# Objective 1 – Dynamic Asset allocation (Bull Market)

**PRIMARY OBJECTIVE – To have high equity allocation initially & reduce allocation as bull phase matures**

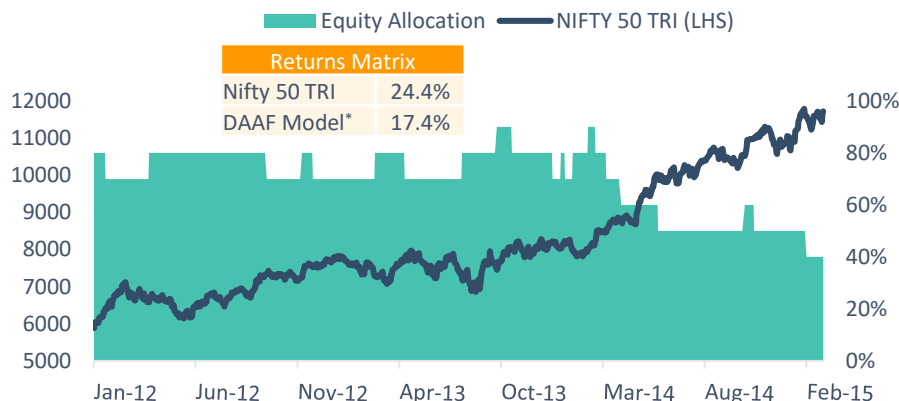
**Bull phase (Jan 2004 - Jan 2008)**



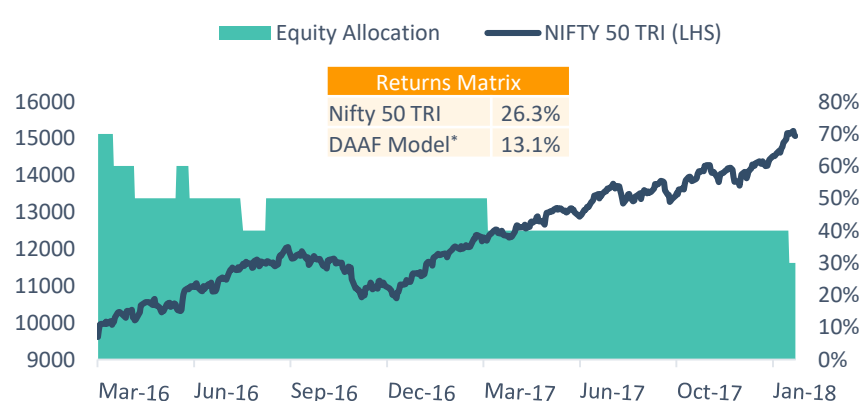
**Bull phase (Apr 2009 - Oct 2010)**



**Bull phase (Jan 2012 - Feb 2015)**



**Bull phase (Mar 2016 - Jan 2018)**

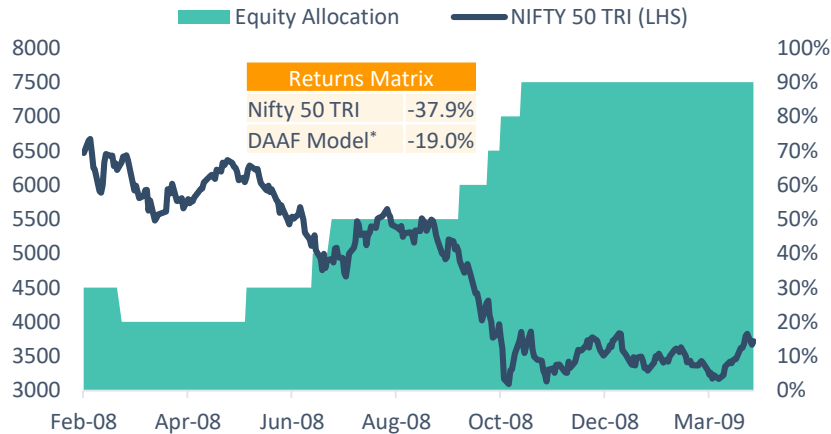


Source: Bloomberg, Internal. \* Expenses ratio of 2.3% assumed for the DAAF Model. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.

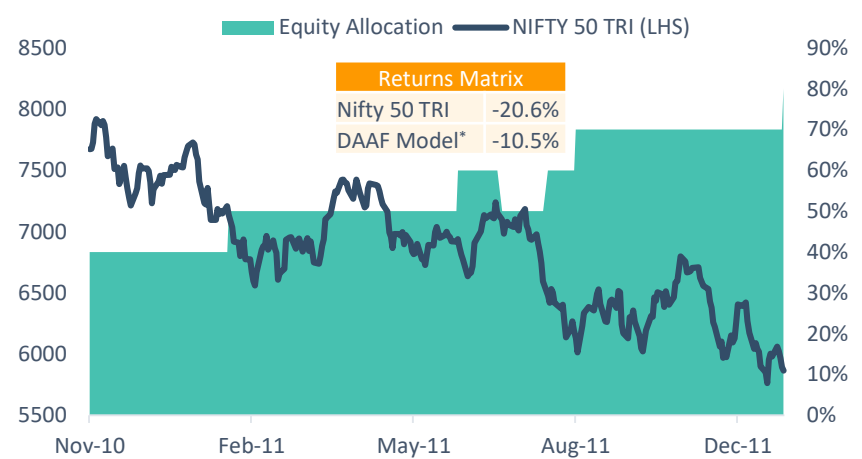
# Objective 1 – Dynamic Asset allocation (Bear Market)

PRIMARY OBJECTIVE – To have low equity allocation initially & increase allocation progressively

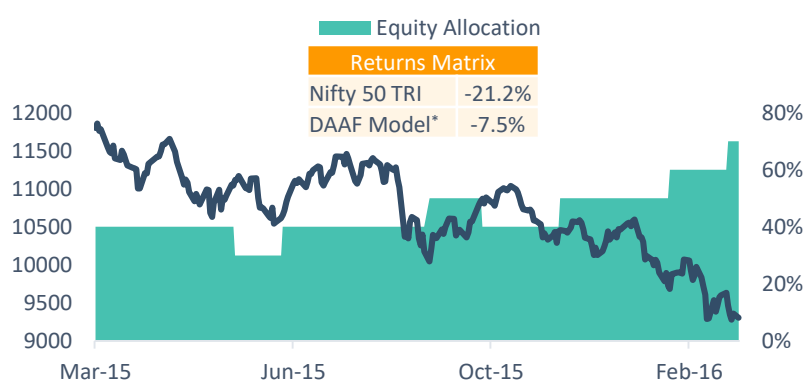
**Bear phase - (Feb 2008 - Mar 2009)**



**Bear phase (Nov 2010 - Dec 2011)**



**Bear phase (Mar 2015 - Feb 2016)**



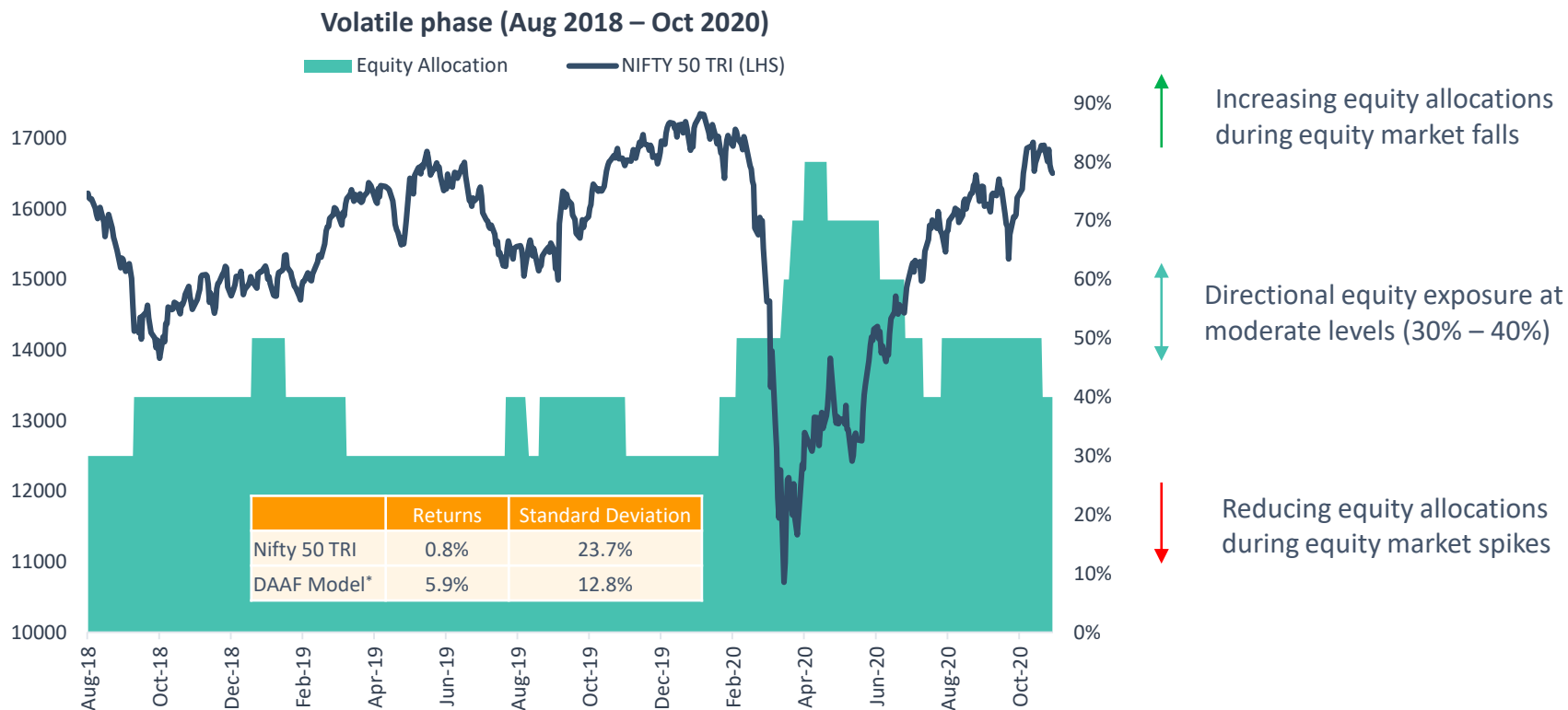
Source: Bloomberg, Internal. \* Expenses ratio of 2.3% assumed for the DAAF Model. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.

Meeting primary objective in the observed bear phases

# Objective 1 – Dynamic Asset allocation (Volatile Market)

## PRIMARY OBJECTIVE -

1. Tactical adjustments to equity allocations to capture mean reverting trends
2. Maintain lower directional equity exposures as value-at-risk is higher during volatile phase



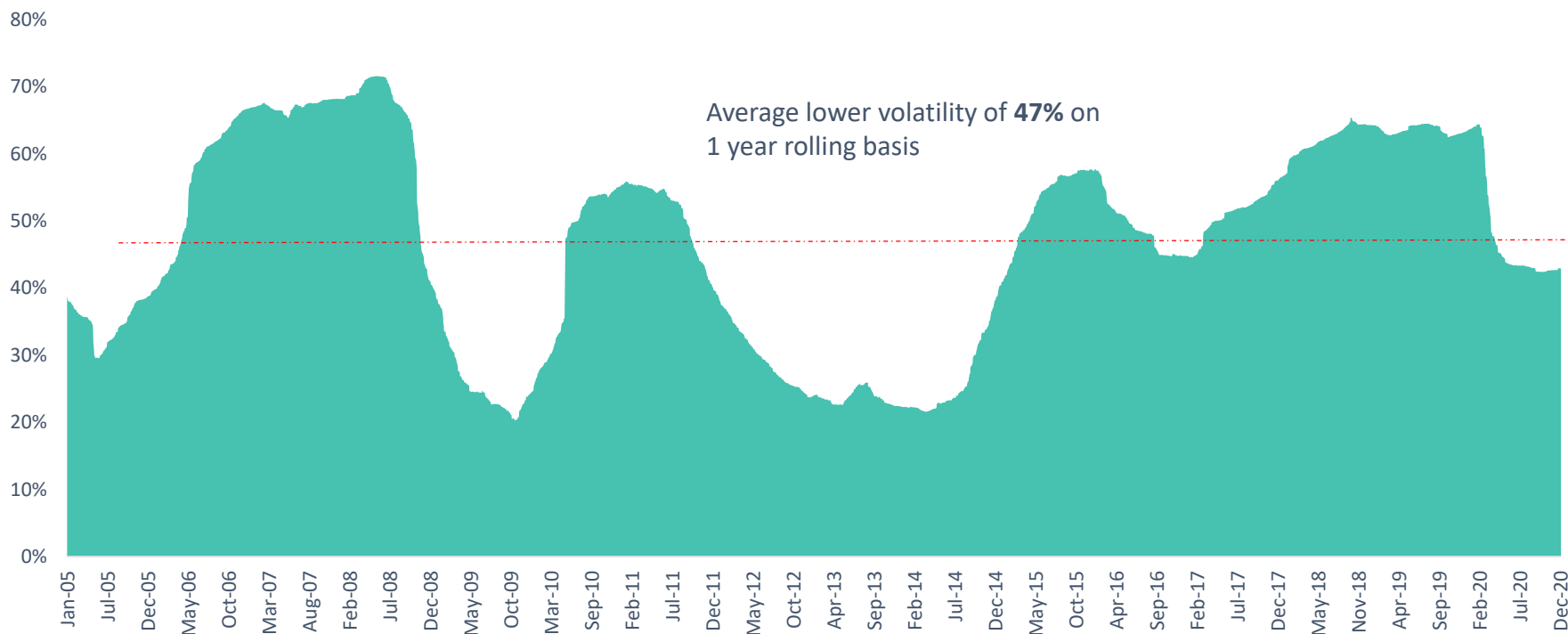
Source: Bloomberg, Internal. \* Expenses ratio of 2.3% assumed for the DAAF Model. Data as of 30 October 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.

## Meeting primary objective in the recent volatile phase

## Objective 2 - Volatility reduction

PRIMARY OBJECTIVE - Volatility reduction as compared to Nifty 50 for a smoother investor experience

### % lower volatility of DAAF model over Nifty 50



Source: Bloomberg, Internal. \*Expenses ratio of 2.3% assumed for the DAAF Model. Data as of 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.

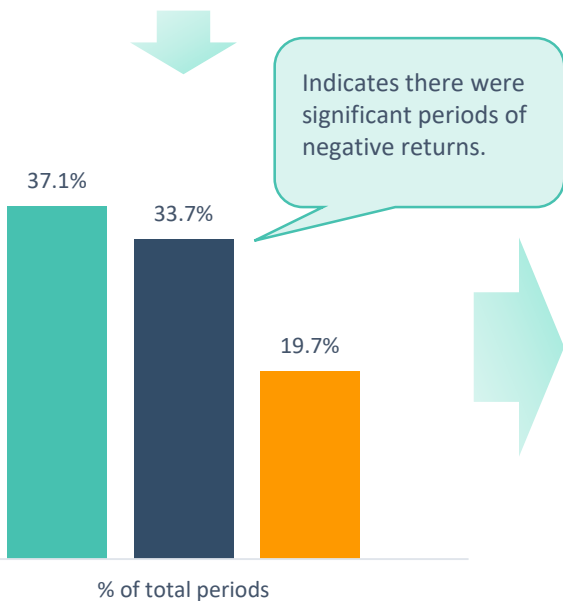
**DSP** Volatility reduction can give investor confidence to stay invested in order to capture upsides



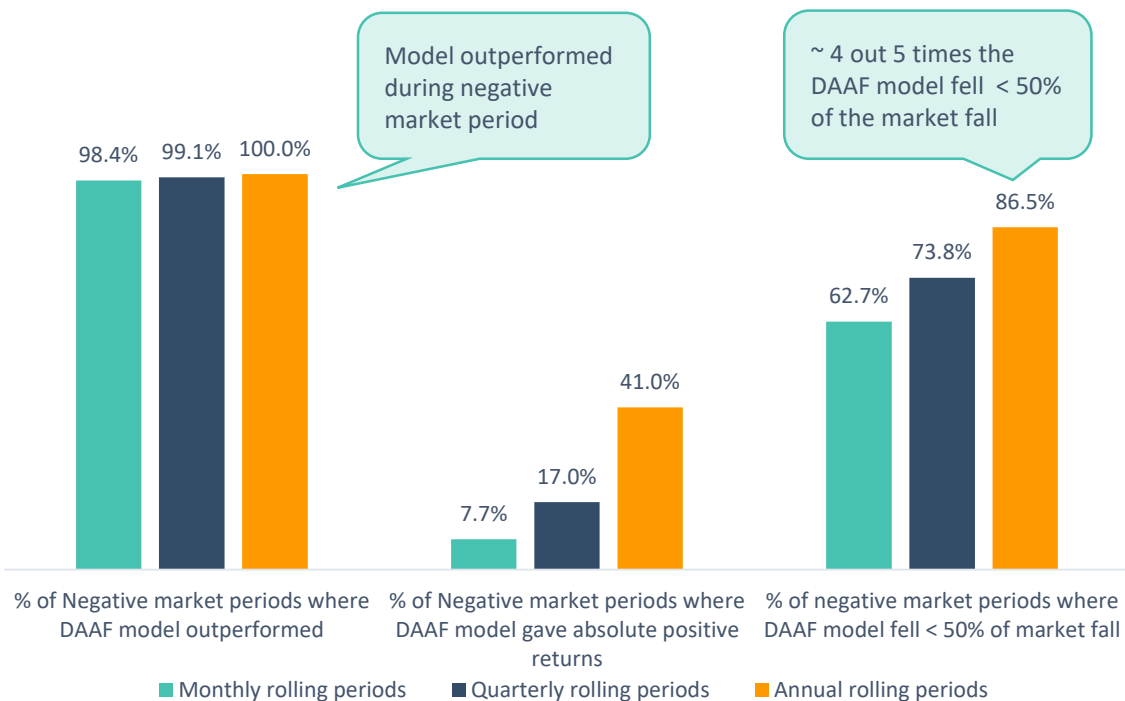
# Objective 3 – Capital Preservation during negative market

**PRIMARY OBJECTIVE – Capital preservation during periods when equity market (Nifty 50) gave negative returns**

**% of total period when equity markets were negative**



**Performance of DAAF model when markets are negative \***



\* Periods when Nifty 50 TRI has shown negative returns are selected and is compared with returns of DAAF model during the same period

Source: Bloomberg, DSP Investment Managers. Data from 30 Jan 2004 to 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments. Expenses ratio of 2.3% assumed for the DAAF Model

**DSP Model was consistently able to preserve capital during negative markets across time horizons**



# Performance

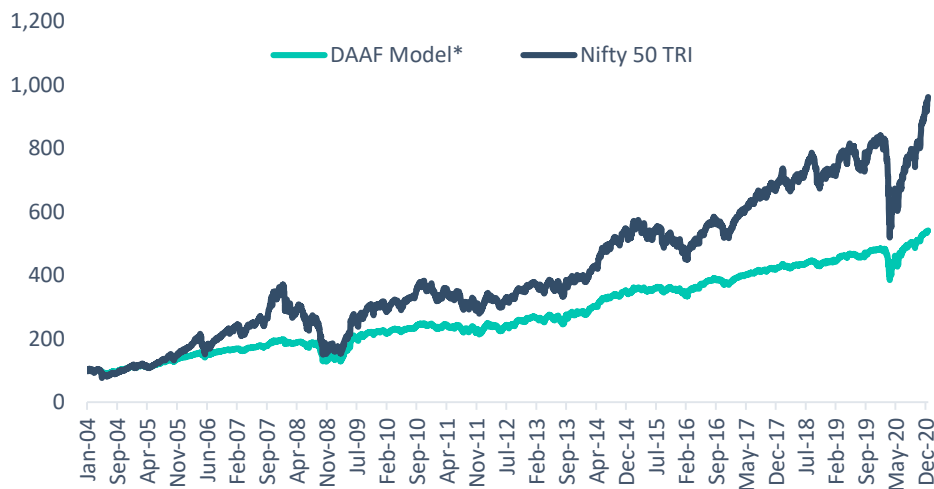
*How has DAAF model performed across time periods?*

# DAAF model – Back-tested performance history

## Rolling return comparison across time horizon

	1 YEAR DAILY ROLLING		3 YEAR DAILY ROLLING		5 YEAR DAILY ROLLING		10 YEAR DAILY ROLLING	
	DAAF Model*	Nifty 50 TRI	DAAF Model*	Nifty 50 TRI	DAAF Model*	Nifty 50 TRI	DAAF Model*	Nifty 50 TRI
<b>Average Returns</b>	<b>11.26%</b>	<b>16.58%</b>	<b>9.94%</b>	<b>13.48%</b>	<b>9.71%</b>	<b>12.12%</b>	<b>9.70%</b>	<b>11.98%</b>
Median Returns	9.26%	13.86%	8.89%	11.06%	9.40%	12.15%	9.06%	10.93%
Minimum Returns	-33.8%	-55.4%	-4.48%	-5.21%	1.62%	-1.03%	5.38%	5.13%
Maximum Returns	75.8%	101.2%	25.99%	51.32%	18.38%	27.04%	14.02%	19.46%
<b>Returns / Risk</b>	<b>0.84</b>	<b>0.72</b>	<b>0.74</b>	<b>0.59</b>	<b>0.73</b>	<b>0.53</b>	<b>0.72</b>	<b>0.52</b>

NAV Series - DAAF Model\* (Net) v/s Nifty 50 TRI

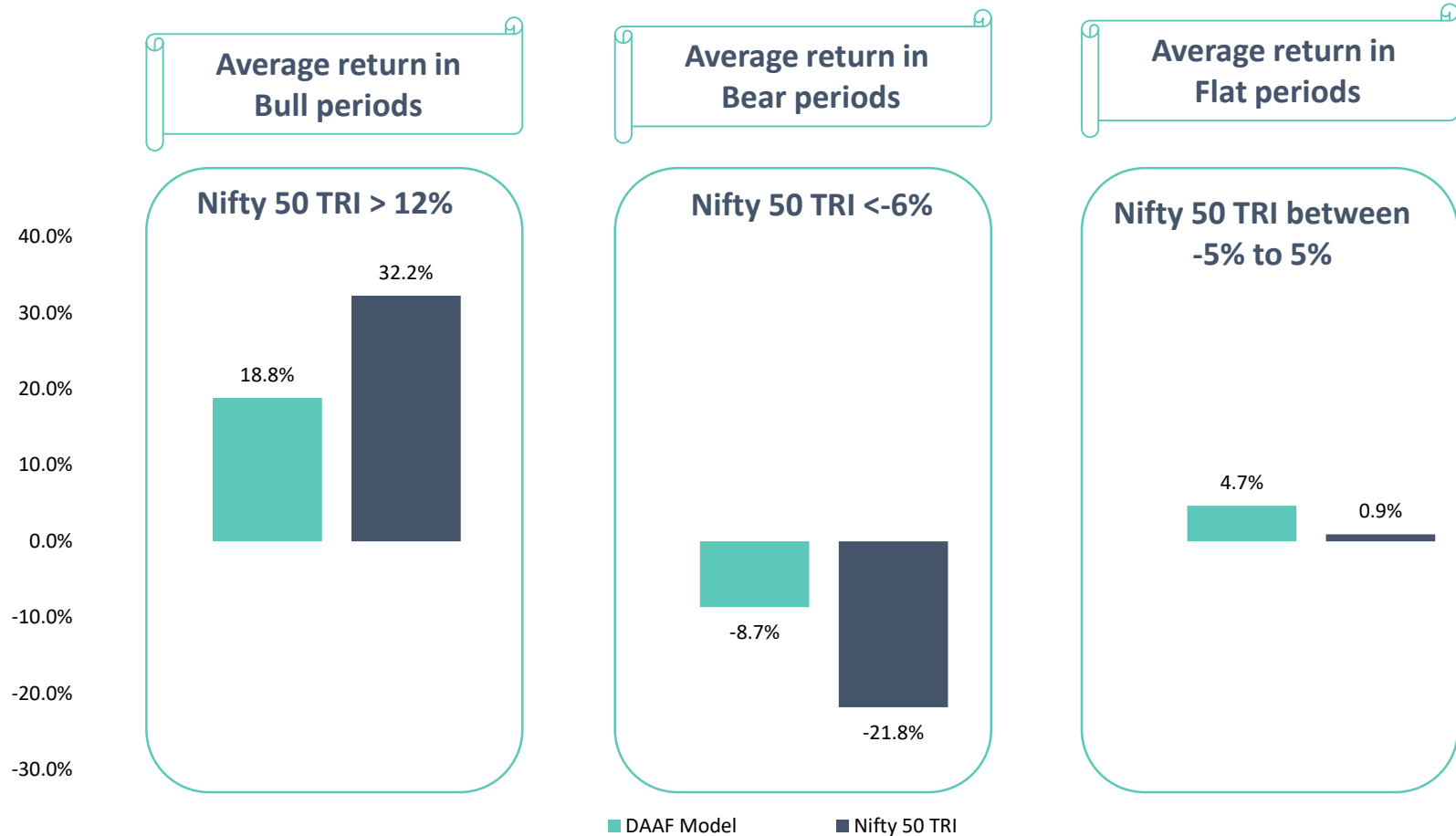


Lower standard deviation of returns allows for a smoother NAV series

Performance differential v/s Nifty TRI reduces with longer time periods

Source: Internal, MFIE. \*Expenses ratio of 2.3% assumed for the DAAF Model. Data as of 31 Dec, 2020. Standard Deviation considered for Returns / Risk calculation in the above table is: DSP DAAF : 13.4%, Nifty 50 TRI : 22.9%. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.

# Performance during different market cycles

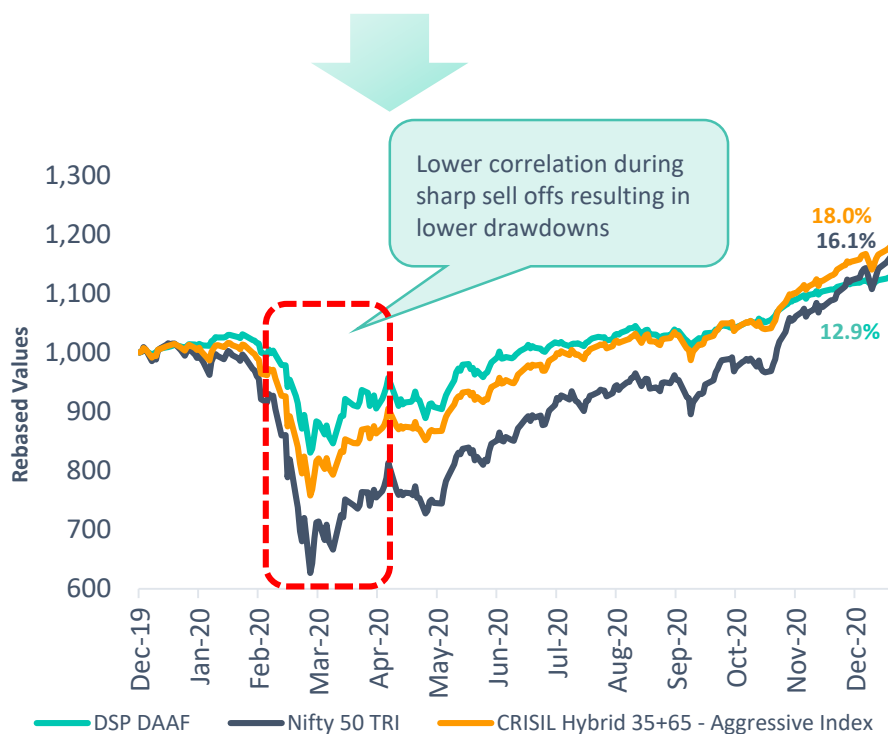


Source: MFIE, Internal. \* Expenses ratio of 2.3% assumed for the DSP DAAF model. 1 year rolling returns calculated based on daily rolling returns since January 2004. Data as of 31 Dec 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. These figures pertain to performance of the model and do not in any manner indicate the returns/performance of the Scheme. **Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments.**

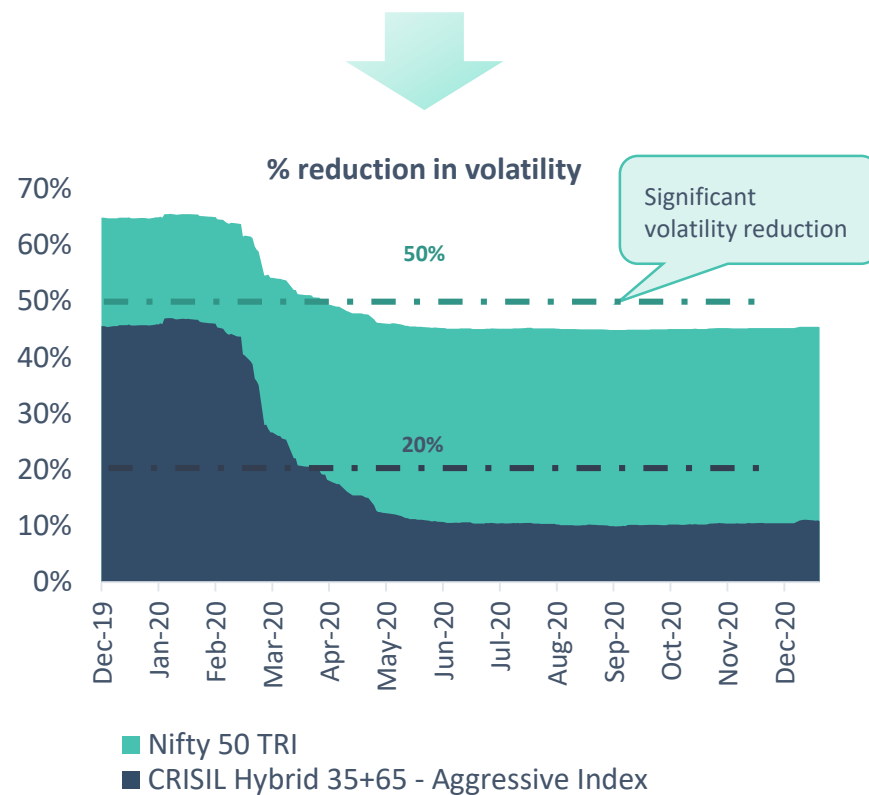
**Model participates in bull phases and limits downside during bear phases**

# DSP DAAF (Actual Fund) Performance - CY 2020

## CY 2020 Performance



## Volatility reduction



Note – Performance is for DSP Dynamic asset allocation fund and not for DAAF model

Source: MFIE. Data as of 31 Dec, 2020. Indices are unmanaged and used for illustrative purposes only and are not intended to be indicative of any fund's performance. It is not possible to invest directly in an index. Past performance may or may not sustain in future and should not be used as a basis for comparison with other investments. Click [here](#) for performance of scheme in SEBI prescribed format and of other schemes managed by same Fund Managers. CRISIL Hybrid 35+65 - Aggressive Index is benchmark for DSP DAAF and Nifty 50 TRI is standard benchmark for the DSP DAAF

# Month on month Equity Allocation recommended by Model

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>2020</b>	<b>40%</b>	<b>50%</b>	<b>70%</b>	<b>70%</b>	<b>70%</b>	<b>60%</b>	<b>50%</b>	<b>50%</b>	<b>50%</b>	<b>40%</b>	<b>30%</b>	<b>30%</b>
2019	50%	40%	30%	30%	30%	30%	30%	30%	40%	40%	30%	30%
2018	30%	40%	40%	30%	30%	30%	30%	30%	30%	40%	40%	40%
2017	50%	50%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
2016	60%	70%	60%	50%	60%	50%	40%	50%	50%	50%	50%	50%
2015	50%	40%	40%	40%	30%	40%	40%	40%	50%	40%	50%	50%
2014	80%	90%	70%	60%	60%	50%	50%	50%	50%	60%	50%	50%
2013	70%	70%	80%	80%	70%	70%	70%	80%	90%	80%	80%	70%
2012	70%	70%	80%	80%	80%	80%	80%	80%	80%	70%	80%	70%
2011	50%	50%	50%	50%	50%	60%	50%	70%	70%	70%	70%	80%
2010	40%	60%	50%	40%	50%	40%	40%	50%	40%	40%	40%	40%
2009	90%	90%	90%	80%	70%	50%	60%	50%	40%	40%	50%	50%
2008	30%	20%	20%	20%	30%	40%	50%	50%	60%	80%	90%	90%
2007	30%	30%	40%	30%	30%	30%	30%	30%	30%	30%	30%	30%
2006	40%	40%	30%	30%	30%	40%	30%	30%	30%	30%	30%	30%
2005	70%	70%	70%	70%	70%	70%	60%	60%	50%	60%	50%	40%
2004	30%	40%	50%	50%	70%	80%	80%	80%	70%	70%	60%	60%

DSP DAAF New Model went live on 18 Sep 2019

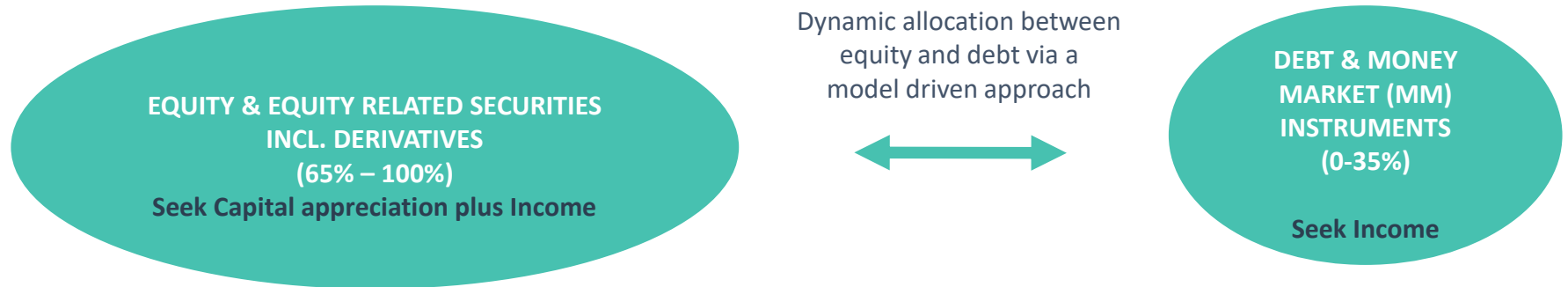
Source: Internal ; Data as on 31 Dec 2020; Allocations are month-end allocation

Model has used the downturn in Feb – Mar '20 to increase equity allocation



# Investment Team, Process and Philosophy

# Investment team



**Atul Bhole: Fund Manager for equity allocation (Managing since Feb 2018)**

- Over 14 year experience in fund management and equity research
- Masters in Management Studies from JBIMS and has cleared his CA exams.



**Abhishek Ghosh: Co-Fund Manager for equity allocation (Managing since Jan 1, 2021)**

- Over 10 year experience in equity research
- Masters in Management Studies from N L Dalmia Institute and has graduation in Electronic Engineering.



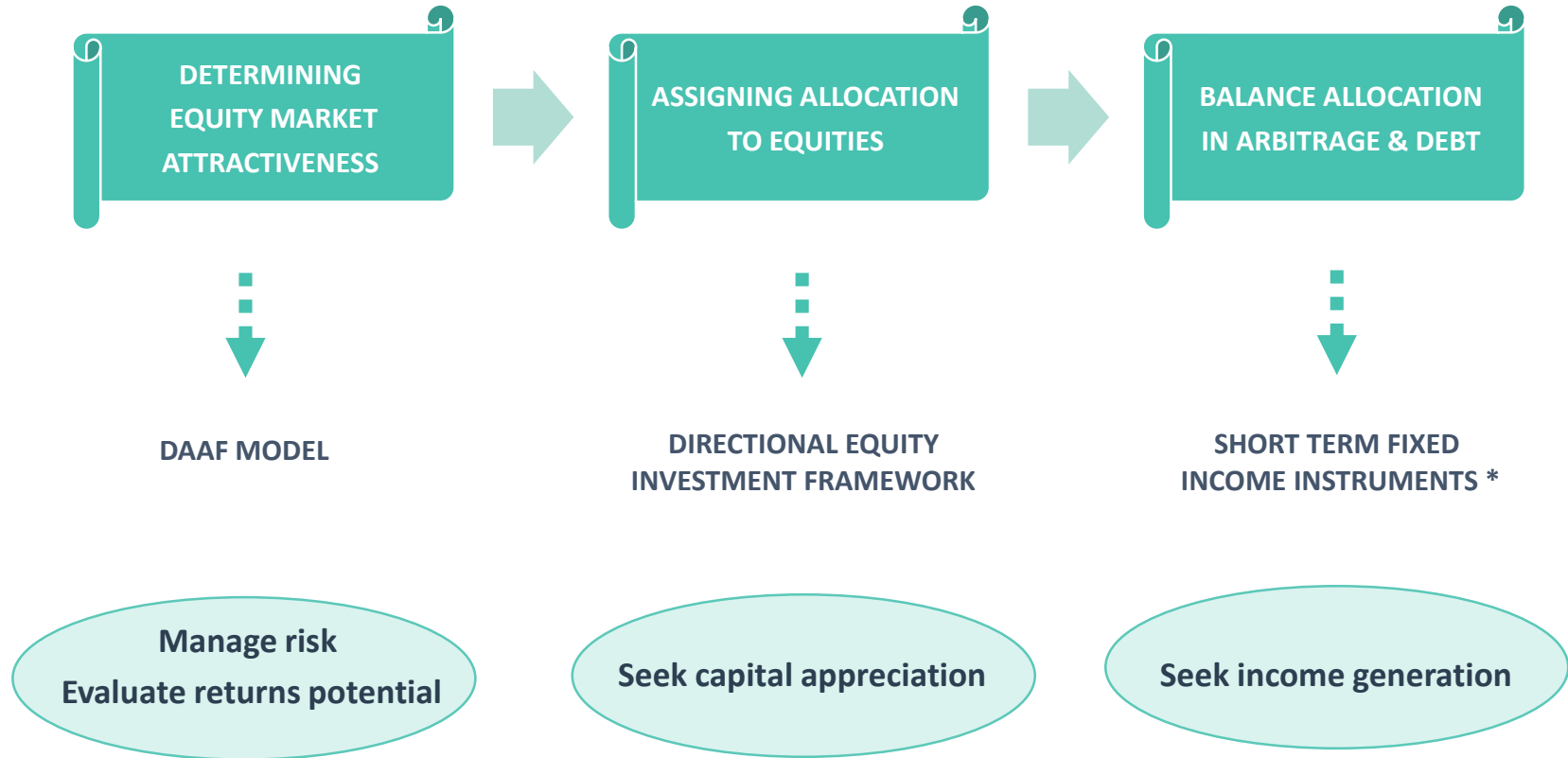
**Saurabh Bhatia - Portfolio Manager for debt & money market allocation**

- Over 18 year experience in fund management and treasury management.
- Post Graduate Diploma in Business Management, Wigan & Leigh College



# Investment process

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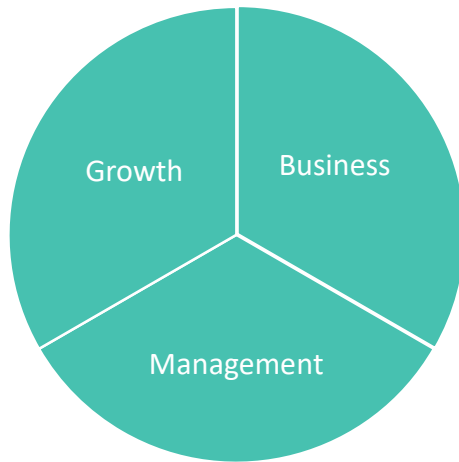


Manage market risks via asset allocation -> can enhance investment longevity

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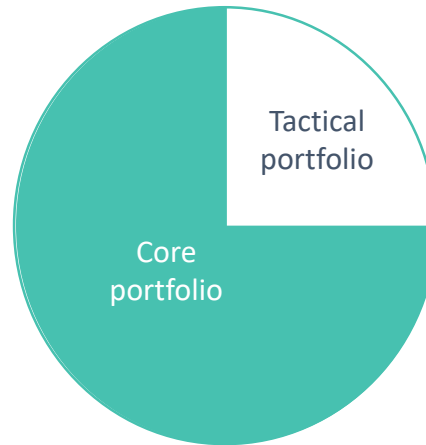
# Equity Investment Philosophy

## STOCK SELECTION



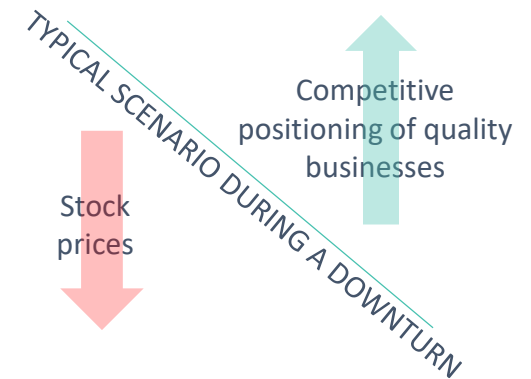
Framework for identifying quality businesses

## PORTFOLIO CONSTRUCTION



Core portfolio of quality businesses based on long term themes

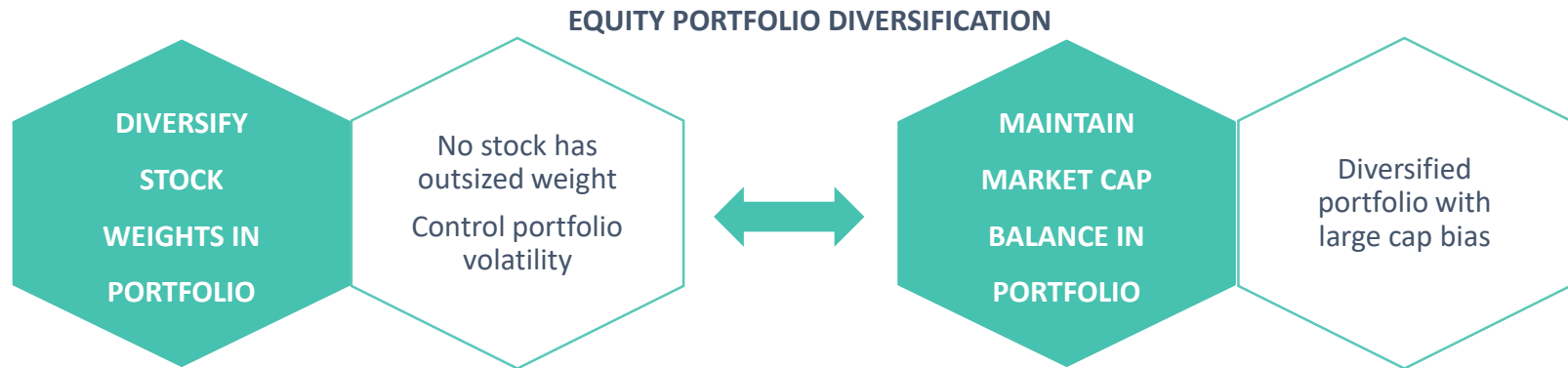
## REVIEW & REBALANCING



Use market corrections to add to quality business at lower prices

# Equity Investment Framework - Portfolio construction

## PORTFOLIO CONSTRUCTION PROCESS FOR ACTIVE DIRECTIONAL EQUITY ALLOCATION



Seeking to capture long term growth prospects via equity allocations

# Portfolio Summary for DSP Dynamic Asset Allocation Fund (as on Dec 31, 2020)

## ASSET ALLOCATION

ASSET CLASS	ALLOCATION
Directional Equities	29.39%
Equity Arbitrage	37.50%
Debt Instruments & Cash	33.11%



## DEBT INSTRUMENTS & CASH ALLOCATION

DEBT INSTRUMENTS & CASH	ALLOCATION
Fixed Deposit Margin	1.37%
Fixed income instruments	22.98%
TREPS & Cash	8.76%

## EQUITY PORTFOLIO METRICS

CAPITALISATION (DIRECTIONAL EQUITY)	% HOLDING
Large cap	25.2%
Mid cap	3.2%
Small cap	1.0%

## FIXED INCOME PORTFOLIO METRICS

INDICATOR	MEASURE
Average Maturity	1.22 years
Modified Duration	1.08 years
Portfolio Macaulay Duration	1.31 years
Portfolio Yield to Maturity	4.08%

Source: MFIE, Internal; Large-caps are defined as top 100 stocks on market capitalization, mid-caps as 101-250, small-caps as 251 and above.

# Disclaimer & Product labelling details

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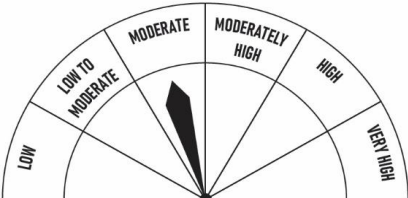
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**Mutual Fund investments are subject to market risks, read all scheme related documents carefully.**

Fund	Product Suitability	Riskometer
<p><b>DSP Dynamic Asset Allocation Fund</b> (An open ended dynamic asset allocation fund)</p>	<p>The scheme is suitable for investors who are seeking*</p> <ul style="list-style-type: none"> <li>▶ Long term capital growth</li> <li>▶ Investments in equity and equity related securities including the use of equity derivatives strategies and arbitrage opportunities with balance exposure in debt and money market instruments.</li> </ul>	 <p style="text-align: center;"><b>RISKOMETER</b></p> <p style="text-align: center;">INVESTORS UNDERSTAND THAT THEIR PRINCIPAL WILL BE AT MODERATE RISK</p>

# DSP

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MUTUAL FUND

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