# WEALTH 🗖





# Applying the NDR Approach to Tactical Asset Allocation

Last Updated: April 2024

# About Ned Davis Research (NDR)

TIM HATES, CMT: JOE KALISH	Founded	HQ	RIA registered with	
SNG LANCE STONECYPHER, CFA	1980	Florida	the SEC	
MAKING MONEY THIRD EDITION NED DAVIS	Kong		<b>15 people on staff</b> have at least one of the following designations CFA, CMT, CIMA, PhD	
About 30	ysts	More than 1,000	<mark>8 awards</mark>	
strategists/anal		clients globally	since 1996	

# NDR's 10 Rules of Research

After 40+ years of running a successful business, the quintessential NDR researcher has emerged: passionate about financial markets, smart, organized, hard-working, humble, and a team player.

Over the years, the NDR philosophy has become embodied in our 10 Rules of Research. These rules cover both character traits of investors and investment axioms:

### 1. Be Objective

We support our arguments through quantitative analysis, using our proprietary software to ground our work in historical data. We focus on mathematical probabilities and minimize subjective or "gut feel" decisions.

### 2. Be Disciplined

We do not let the noise of the market or the roller coaster of emotions sway our approach. We let the indicators and models tell us when to make the appropriate market moves.

### 3. Be Flexible

We use humility to drive long-term success. Data and trends change: different environments elicit different reactions. We constantly explore new data and techniques in our analysis and focus on when a trend may be changing. We do not cling to a (losing) trade for pride's sake.

#### 4. Be Risk-Aware

We provide a disciplined approach to portfolio management, considering the rewards and risks inherent in each recommendation.

### 5. Don't Fight the Tape

We listen to the cold, bloodless verdict of the market. We follow market trends and go beneath the surface to examine participation in the market. Staying in tune with the tape also avoids major disasters.

### 6. Don't Fight the Fed

We examine the impact of monetary policy by central banks.

### 7. Don't Fight Fiscal Policy

We explore the significant influences that fiscal policy can have on the market.

### 8. Beware of Crowds at Extremes

We watch sentiment and valuation

indicators as warning signs of what is being priced into the market, as the crowd is often wrong at extremes. We typically go with the flow until an extreme is reached and a reversal begins.

### 9. Study History to Avoid Repeating Mistakes

We use history as an objective sounding board, referencing what the market may do given certain circumstances.

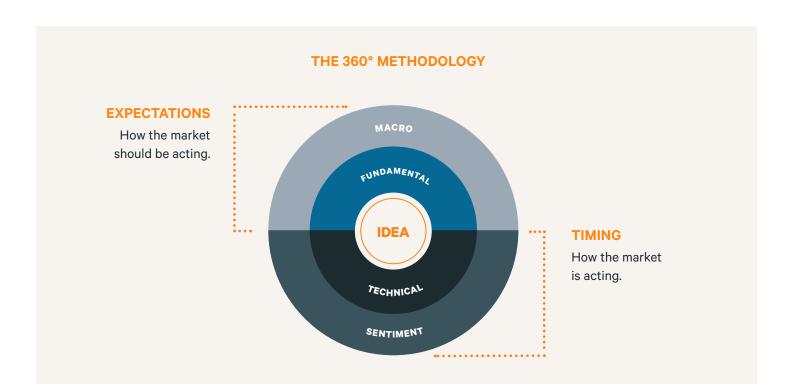
### 10. Apply Money Management Rules

We are more interested in helping our clients make money than being "right." Our goal is to help clients let profits run and cut losses short.



# NDR's 360° Approach

Understanding the drawbacks and combining the strengths of different investment styles is the most effective path to success. NDR builds investment recommendations by considering the weight-of-the-evidence, drawn from indicators across multiple investment pillars. As the evidence increases, so does our conviction. We use a 360° approach consisting of four traditional investment pillars.



### How the market should be acting:

- Macroeconomic
- Fundamental

These two pillars are "big picture," and slower moving; they provide the strategic outlook. Fiscal policy decisions, employment trends, and company earnings are the fundamental drivers of stock prices and markets.

In the long run the market must respond to these factors. But in the near term — weeks, months or even quarters — the market can decouple dramatically from what it should be doing.

### How the market is acting:

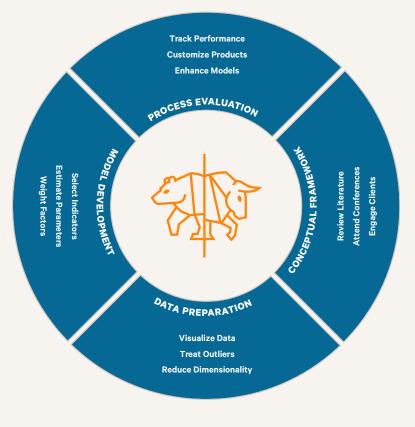
- Technical
- Sentiment

These two pillars are the pulse of the market; they are faster-moving and provide a tactical outlook. Investor behavior, price action, volume, and volatility represent the market's ever-changing, instantaneous attempts to consolidate all information into prices, moving wildly in the near term. Investors often ignore these factors at their own peril.

# Implementing the Weight-of-the-Evidence Framework

# **Model Development Process**

- Develop and test hundreds of theoretically sound indicator relationships in collaboration with the expert strategist.
- Evaluate the indicator relationships to ensure that the same concept does not have excessive weight.
- Analyze these measures over time, as well as during parts of the macro and market environments.
- Review statistics such as return, volatility, consistency, peak decline, upside capture, downside capture, etc.
- Independent review by the NDR Index Committee, which meets and discusses the theoretical likelihood that the indicators and composite should persist.



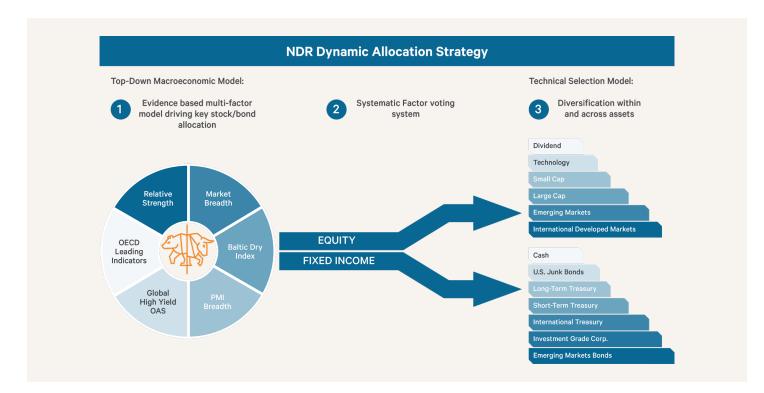
This process is done in a feedback loop, as indicator predictive power evolves over time.



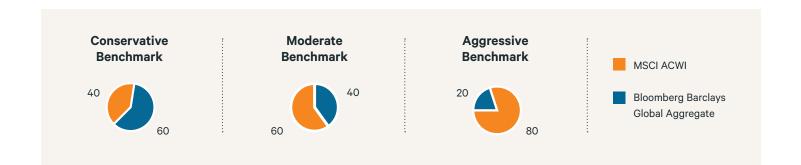
"We need an unbiased, objective standard that weighs the evidence and passes judgement devoid of emotionalism."

Ned Davis NDR's Founder and Senior Advisor

# Applying NDR's Approach to Global Allocation – The Dynamic Allocation Strategy Series



- This strategy is a high-conviction approach to allocating across and within stocks and bonds, while targeting 150% annual turnover. Both the top and second-level models are unconstrained. Although infrequent, given the current configuration, the model could allocate 100% to any single asset class. For the six equity and six fixed income segments, the allocation ranges between 0-35%.
- Top-level macroeconomic and technical model determines equity vs. fixed-income allocation using the 360-degree approach.
- Intra-asset allocations are based on trend-following, rate-of-change, and overbought/oversold indicators.
- The model is based on various equity and fixed income indices, allowing for discretionary selection of investment products for actual implementation.



# Weighing the Indicators to Develop Tactical Asset Allocation Conviction

INDICATOR	ТҮРЕ	DEFINITION	INTERPRETATION
Global Stock/Bond Relative Strength Ratio Trend	Technical	Compares the relative strength (ratio) of global stocks versus bonds to its long- term moving average.	When the stock/bond ratio resides above (below) its long-term average, it has been better (worse) for stocks relative to bonds (on average).
Global Equity Market Breadth	Technical	Measures the percentage of global equity markets trading above their inter- mediate moving averages.	Elevated breadth is important because if many stocks rally, even if a few run into trouble, enough stocks remain in uptrends that they can support the popular averages.
Composite Leading Indicator	Macroeconomic	OECD Composite Leading Indicator to determine whether economic activity is improving or deterio-rating in the near-term.	When the global economy is getting stronger (weaker), stocks typically outperform (under- perform) bonds.
Baltic Dry Index	Macroeconomic	Contrasts the Baltic Dry Index, a measure of global shipping activity, to its intermediate moving average.	Above (below) trend global shipping activity, reflects robust (weak) economic growth, which favors stocks (bonds).
Purchasing Managers' Index	Macroeconomic/ Sentiment	The Purchasing Managers' Index (PMI), a survey of senior executives, measures the near-term percentage change of economies with expanding activity.	When more economies are reporting improve- ments (declines) in new orders, inventory, production, deliveries, and employment, economic activity is strengthening (weaken- ing), which favors stocks (bonds).
Global High Yield Option-Adjusted Spread	Technical/ Sentiment	Measures the direction of the global high yield option-adjusted spreads (OAS) to determine the risk tolerance of fixed income investors.	Narrowing (widening) spreads reflect a growing (falling) risk appetite, which favors stocks (bonds).



"The degree of unprofitable anxiety in an investor's life corresponds directly to the amount of time one spends dwelling on how an investment should be acting rather than the way it actually is acting."

Ned Davis NDR's Founder and Senior Advisor



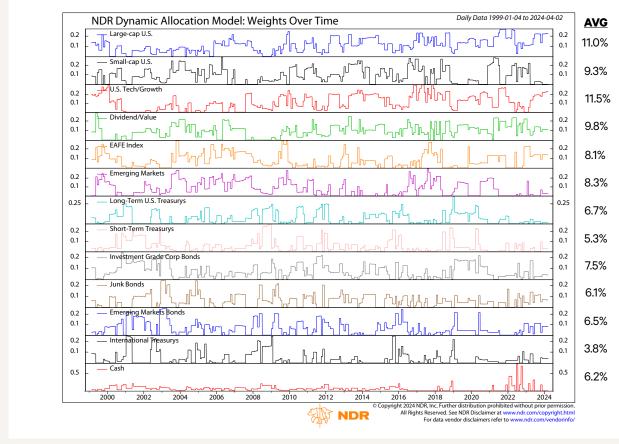
"Knowing the domestic and global macroeconomic backdrop is critical to understanding investment risk and opportunities and to putting clients on the right side of the major trends."

Alejandra Grindal NDR's Chief Economist



"The major benefit of a sentiment assessment is that it can enable you to place the current market action in the framework of risk and reward."

Tim Hayes, CMT NDR's Chief Global Investment Strategist



# Dynamic Allocation Strategy – Moderate Model's Historical Weightings

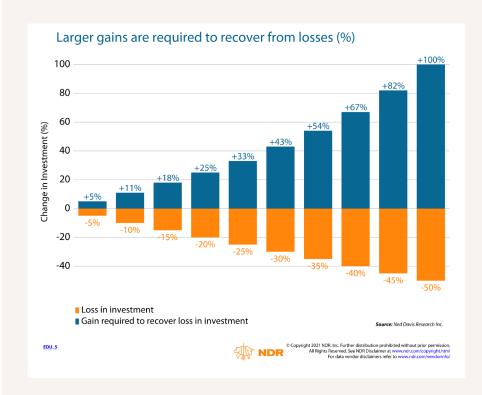
Weights are shown in decimal format

# Notes:

- Analysis since the start of 1999. Includes backtest.
- Model published since October 2012.
- Internal assets tracking the model since August 2017.
- Minimum allocation is 0%
- Max allocation for an individual stock or bond area is ~35%.
- Max allocation for the stock, bond, or cash asset classes is 100%.
- Average stock/bond/cash allocation has been 58.0%/35.8%/6.2%



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# Two of NDR's rules are:

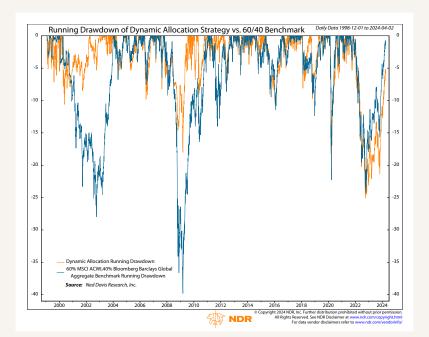
- Be Risk-Aware
- Apply Money Management Rules

Large losses are very difficult to overcome. One of the keys to growing wealth is to minimize large losses.

"We are in the business of making mistakes. Winners make small mistakes, losers make big mistakes. Focus on risk management to keep mistakes small."



Ned Davis NDR's Founder and Senior Advisor



# **Reducing Drawdowns Are Critical When Taking Distributions**

# RETIREE WITH A \$1 MILLION PORTFOLIO INVESTED IN THE S&P 500 INDEX

Withdrawing \$50,000 Annually

10/9/2007	\$ 1,000,000	
12/31/2007	\$ 938,200	
1/1/2008		-\$ 50,000
1/1/2008	\$ 888,200	
12/31/2008	\$ 547,131	
1/1/2009		-\$ 50,000
1/1/2009	\$ 497,131	
3/9/2009	\$ 372,351	

Assumes taking 5% distributions during the 2007-2009 bear market.

The investor has withdrawn 10%, but lost ~59% of value.

Large drawdowns can devastate a retirement plan.

Risk Management Matters!

We explored historical corrections and evaluated their impact on long-term performance. The key takeaways of our analysis:

"Portfolios with larger maximum declines tend to have lower risk-adjusted returns."

"More volatile markets tend to have larger maximum losses." "Active strategies that can reasonably reduce the worst few declines result in significant gains."

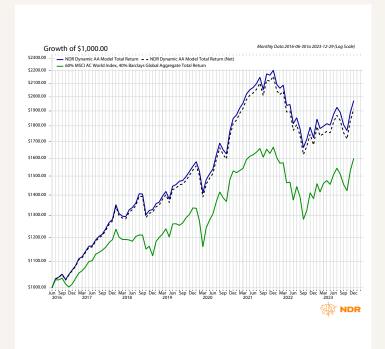


Amy Lubas, CFA NDR's VP, Investment Solutions



Kiersten Engel NDR's Research & Development Manager

# **Dynamic Allocation Strategy – Moderate Model Performance**



Return Period	Gross (%)	Net of 0.4% Per Annum (%)	Benchmark (%)
1-yr Rolling (03/31/2023- 03/28/2024)	17.11	16.64	14.09
3-yr Rolling (03/31/2021- 03/28/2024)	2.46	2.05	2.56
5-yr Rolling (03/29/2019- 03/28/2024)	8.55	8.12	6.48
Since Inception (08/31/2017- 03/28/2024)	8.83	8.40	5.97

### **REAL-TIME PERFORMANCE SUMMARY**

### **BACKTEST PERFORMANCE SUMMARY**

Return Period	Gross (%)	Net of 0.4% Per Annum (%)	Benchmark (%)
10-yr Rolling (03/31/2014-03/28/2024)	8.82	8.38	5.61
Full History (01/29/1999-03/28/2024)	10.92	10.48	5.41

### RISK STATISTICS (01/29/1999-03/28/2024)

Statistic	Gross (%)	Net of 0.4% Per Annum (%)	Benchmark (%)
Standard Deviation	9.35	9.35	10.56
Downside Deviation	5.45	5.50	7.07
Sharpe Ratio	0.97	0.93	0.34
Beta (Relative to Benchmark)	0.73	0.73	1.00
Upside Capture	102.46	100.83	100.00
Downside Capture	60.03	61.31	100.00
Max Drawdown	-24.48 (12/31/2021- 09/30/2022)	-24.70 (12/31/2021- 09/30/2022)	-36.80 (10/31/2007- 02/27/2009)

The 60/40 benchmark is based on the MSCI ACWI and Bloomberg Barclays Global Aggregate. Returns based on monthly rebalancing. Net returns are based on fees of 0.4% per annum. Past performance is not a guarantee of future results.

# Asset Returns Around Recession Start Dates 110 105 100 6 Months 12 Months 12 Months 6 Months Recession Prior Prior Later Later Start 60/40 Balanced Portfolio – Dynamic Allocation (Moderate)

# **Dynamic Allocation Strategy – Macroeconomic Influences**

"Since MSCI ACWI data began in the late 1980s, large drawdowns in global equites have exclusively occurred in or around these global [economic] slowdowns."



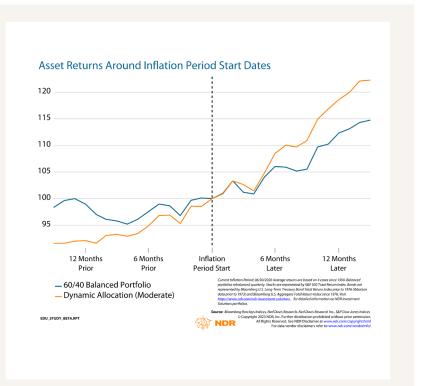
**Alejandra Grindal** NDR's Chief Economist

"During 'The Golden Age of 60/40,' from 1982 to 2020, 60/40 portfolios performed extremely well as inflation fell. If inflation settles in a range above the Federal Reserve's 2% inflation target, investors will find it harder to make money through a passive 60/40 approach." - Joe Kalish, NDR's Chief Global Macro Strategist

"A more active approach in terms of asset allocation, geographical positioning, and sector/ industry/security selection will pay a greater role in generating returns."



**Joe Kalish** NDR's Chief Global Macro Strategist





# **Benefits of an NDR Investment Solutions Partnership**

# **Tactical Allocation**

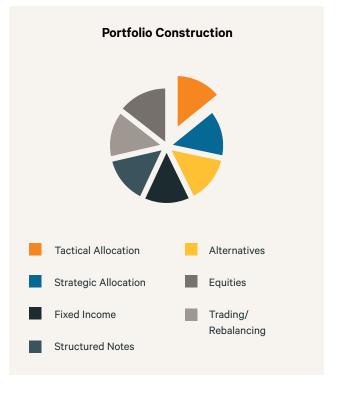
- Focus on your core competencies (e.g., stock selection or alternatives placement).
- Leverage the expertise of an experienced firm focused on tactical allocation.
- Expand your firm's offering while maintaining control over investment management.
- Reduce the operational risk and improve trade rationale in area(s) where you are not an expert.
- Customize the asset allocation to fit your various client risk profiles.

# **Scale Your Practice**

- Grow your team with an independent, institutional-quality partner.
- Access skills and competencies beyond your firm's budget.
- Lower operational risk of running a model portfolio by having an external team supporting your efforts.
- Simplify portfolio decisions using a model-driven approach with supporting trade rationale documentation.
- Free up to 50% of your time<sup>\*</sup> to spend on servicing clients, financial planning, managing your practice, and developing your skills.

YOUR FOCUS 🗹	PARTNERSHIP	✓ YOUR FOCUS
Client Servicing	Investment Management	Practice/Personal Development
Client meetings	Investment research	Prospecting
Responding to client communications	Asset allocation	Marketing
Financial planning/goal setting	Security selection	Compliance
Client education	Manager due diligence	Technology
Marketing to clients	Rebalancing portfolios	Business strategy
	Portfolio Construction	Staff development
	Trade Rationales	Personal development

\* Capital Group. "Pathways to Growth. 2022 Advisor Benchmark Study". 50% of advisor time spent on investment management, preparing for/conducting client meetings, and preparing for/conducting client education/training.



	R MODEL PORTFOLIOS	
	Dynamic Allocation	How to Access
Ø	A high conviction (large tracking error) approach to global asset allocation. Invests across 13 different assets including U.S. equity styles, global equity regions, fixed income sectors, and cash.	Direct Delivery
	Fired Income Allocation	Platforms Amplify
%	<b>Fixed Income Allocation</b> Allocates across nine fixed income sectors including duration, quality, and geography.	C8 Technologies Envestnet GeoWealth
	Global Allocation	SMArtX
Ø	Overweights and underweights global asset classes and equity regions relative to a 60/40 benchmark.	Vestmark
	International Equity Allocation	Single Cusip Smart Sector® Series
53	Seeks larger and smaller non-U.S. equity markets with favorable attributes.	(www.dhfunds.com)
	U.S. Sector Allocation	
	Assigns tactical weightings across eleven equity sectors relative to the U.S. large-cap space.	
DAY	HAGAN/NDR SMART SECTOR MODEL PORTFOLIOS	
	Smart Sector <sup>®</sup> Balanced Portfolios	
	Strategic allocations to U.S. equities, international equities, and fixed income using the Smart Sector® framework.	
	Smart Sector <sup>®</sup> Fixed Income	
%	Raises up to 50% cash from areas correlated to equities during periods of market stress. For the invested position, the strategy allocates across nine fixed income sectors including duration, quality, and geography.	
	Smart Sector <sup>®</sup> Global Tactical Allocation	
Ø	Overweights and underweights global asset classes, equity regions, and U.S. equity styles relative to a 60/40 benchmark.	
	Smart Sector <sup>®</sup> International Equity	
\$}	Raises up to 50% cash during periods of market stress. For the invested position, the strategy seeks larger and smaller non-U.S. equity markets with favorable attributes.	
	Smart Sector <sup>®</sup> U.S. Equity	
	Raises up to 50% cash during periods of market stress. For the invested position, the strategy assigns tactical weightings across eleven equity sectors relative to the U.S. large-cap space.	

# **Benefits of an NDR Investment Solutions Partnership**

"Wealth managers can further enhance their practice using the customization, private label, and turnkey model portfolio capabilities within NDR's Investment Solutions."



# Brian Sanborn, CFA

NDR's Global Head of Investment Solutions

- Customized model portfolios
- Bespoke model portfolios
- Client-friendly newsletter (private-labeled or co-branded)
- Model portfolio commentary (private-labeled or co-branded)
- Model portfolio factsheets (private-labeled or co-branded)
- Client communication materials
- Access to institutional research
- Interactive charts and studies
- Redistribution rights to externally offer NDR models
- Access to NDR's strategists for your own events or webinars
- Sponsorship opportunities for your events



# **Contact us**

Reach out to learn more about the best combination of services, research, and model delivery to enhance your practice.

### **Brian Sanborn, CFA**

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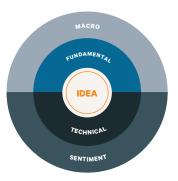
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### NDR NED DAVIS RESEARCH

# See the signals.<sup>TM</sup>

Founded in 1980, Ned Davis Research Group is a leading independent research firm with clients around the globe. With a range of products and services utilizing a 360° methodology, we deliver award-winning solutions to the world's leading investment management companies. Our clients include professionals from global investment firms, banks, insurance companies, mutual funds, hedge funds, pension and endowment funds, and registered investment advisors.



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Important Information and DisclaimersNDR (Ned Davis Research) uses the weight of the evidence and a 360-degree approach to build up to market insights. When we say "evidence," we mean processing millions of data series to fuel a historical perspective, build proprietary indicators and models, and calm investors in a world full of bull/bear news hype and hysteria. We believe that no client is too big or too small to benefit from NDR's insights.

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