



About Us

Founded in 1980, NDR is a global provider of independent investment research insights, tools, and solutions. We use 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, building proprietary indicators and models, and calming investors so they can see the signals and avoid mistakes.

Our comprehensive service for wealth managers provides broad, objective market analysis, implementation ideas through strategy publications, charts, tools, and model portfolios. This service helps wealth managers tell the story to their clients, from a firm with a rich history of providing high value, relevant, empirically based market research and insights.

Product Offerings for Wealth Managers

- Research product offerings begin with our Advisory Publications Only service, which provides investors with the foundation of our research -- our insights. The Advisory Plus service combines these summary insights with select components of our robust interactive chart and report library, tools, implementation ideas, and models. Four add-on product offerings are also available:
 - » Ned's Insights Ned Davis' independent thoughts and access to key models and indicators.
 - » Energy Strategy Warren Pies' insights on the oil market, as well as industry and stock ideas in the Energy sector.
 - » North America Stock Selection Factor research; U.S. factor-based portfolio; and stock charts, reports, and other tools for a North America universe.
 - » NDR Digital Tools An extensive library of 25,000+ charts, models, and indicators; ETF and global stock selection content; and access to 9,000+ data series.
- This multi-dimensional research offering helps the advisor oversee their investment process and equips them with the tools to clearly communicate with their clients and prospects.

Model & Signal Delivery

- NDR has a rich history building a wide range of financial market models and indices. Over the past three decades the output from these models has been used by some of the industry's most successful asset managers seeking to enhance their performance and perspective on different market themes. Over the years our models and indices have also been utilized by wealth managers seeking to achieve their clients' financial goals.
- NDR offers select models and indices as turnkey financial solutions. Investment professionals can access our strategies
 through a wide array of investment vehicles including mutual funds, ETFs, UITs, managed accounts, and direct signal
 model manager agreements.
- Carson Wealth advisors can access NDR models and signals via:
 - » Direct Signal
 - Global Macro Allocation Strategy
 - » Single Cusip
 - SSUS Day Hagan/NDR Smart Sector with Catastrophic Stop ETF
 - NDRMX VanEck NDR Managed Allocation Fund
 - LFEQ VanEck Vectors Long/Flat Trend ETF





Insights for Wealth Managers Advisory Publications Only



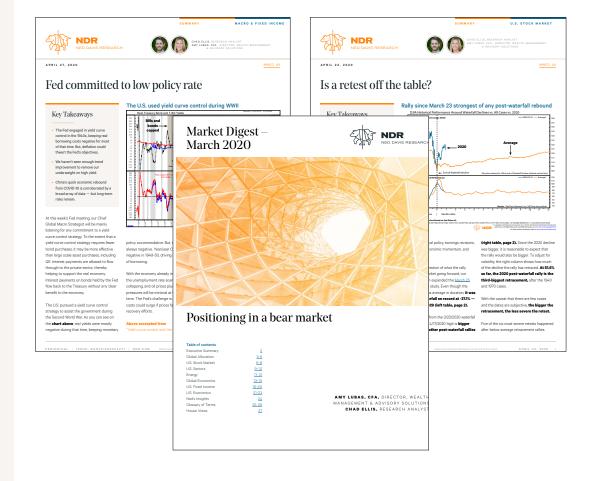
What is the Advisory Publications Only service?

The **Advisory Publications Only** service provides investors with the foundation of our research, our insights. These summary insights are delivered in our publications, covering the following categories:

- Economics
- Asset Allocation
- Equities
- Fixed Income
- U.S. Sectors
- Thematic

The Insights for Wealth Managers service combines daily summary research publications with select components of our robust interactive chart and report library, tools, implementation ideas, and models. This multi-dimensional research platform helps the wealth manager oversee their investment process and clearly communicate with their clients and prospects.

The **Advisory Publications Only** service for wealth managers includes daily summary research publications and thematic reports.



Any product examples provided on this page are offered for illustrative purposes only and are not intended to reflect current opinions or views of NDR and its research team. Using any graph, chart, formula or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such device. Please see important additional disclaimers here: www.ndr.com/terms-of-service



	Description	Frequency
Economics		
Daily Economic Perspectives	Author: Veneta Dimitrova - Summary analysis of key economic data releases of the day and any changes or implications to key NDR macro indicators.	Daily
Asset Allocation		
Global Allocation	Summary of global asset allocation and regional/country allocation; includes insights into global market trends.	Weekly
Equities		
U.S. Markets	Summary of the U.S. stock market and current strategy.	Weekly
U.S. Sectors	Summary of U.S. sectors and industries and current strategy, as well as strategy and positioning commentary on the energy complex, including equity ideas and MLP insights.	Weekly
Fixed Income		
Macro & Fixed Income	Summary of global and domestic economies, and fixed income markets.	Weekly
Thematic		
Benchmark Review	Author: Ed Clissold - Review of market index returns and attribution for the prior quarter.	Quarterly
White Paper	Periodic publication providing analysis on investment topics and the application for the investment process.	Mixed
Implementation		
ETF Highlights	Author: Matt Bauer - Coverage of relevant market research based on ETFs as well as diverse NDR commentary applied to ETFs.	Bi-monthly
ETFs on the Move	Author: Matt Bauer - Identification of key ETF market leadership trends through tracking of flows as well as significant highs and lows.	Bi-monthly
Summary		
Daily Bullet Points	Daily summary of commentary released in the prior 24 hours.	Daily
Weekly Summary	Friday summary of select commentary across NDR research areas released over the past week.	Weekly
Research Summary	A portal to the weekly strategy summaries and highlights an important chart or study of the week.	Weekly
Market Digest	Author: Amy Lubas - Summary publication for Advisory product covering recent events, indicators, and studies NDR is monitoring.	Monthly

Clients also have access to:

• Access to Advisory team for inquiries

• Live and Recorded Webinars

Ned Davis Research advisorysales@ndr.com

www.ndr.com/wealth-managers (617) 279-4860



Insights for Wealth Managers Advisory Plus



What is the Advisory Plus service?

The **Advisory Plus** service provides investors with the foundation of our research, our insights. These summary insights are delivered in our publications, covering the following categories:

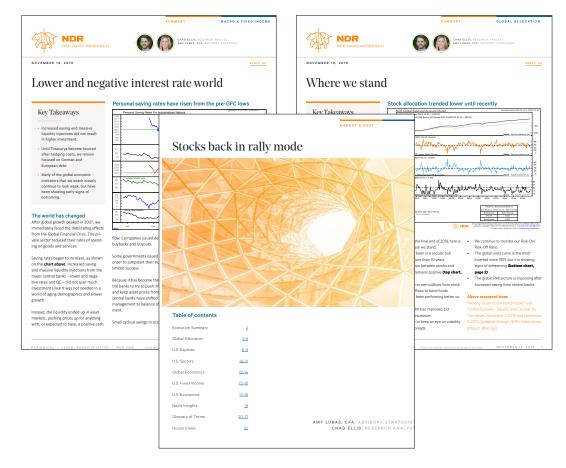
- Economics
- Asset Allocation
- Equities
- Fixed Income
- U.S. Sectors
- Thematic.

In addition to a comprehensive array of publications, this service offers tools and quantitative research on over 4,800 U.S. stocks and complete coverage of domestic ETFs, as well as provides multi-asset allocation and model portfolios. Together, these resources provide wealth managers the confidence to make decisions quickly and effectively.

The Insights for Wealth Managers service combines daily summary research publications with select components of our robust interactive chart and report library, tools, implementation ideas, and models. This multi-dimensional research platform helps the wealth manager oversee their investment process and clearly communicate with their clients and prospects.

The Advisory Plus service includes:

- Daily summary insights
- Key NDR asset allocation models
- Multi-asset ETF model portfolio
- Monthly U.S. stock portfolio
- Fixed income research
- ETF Strategy insights, charts, and tools



Any product examples provided on this page are offered for illustrative purposes only and are not intended to reflect current opinions or views of NDR and its research team. Using any graph, chart, formula or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such device. Please see important additional disclaimers here: www.ndr.com/terms-of-service



	Description	Frequency
Economics		
Daily Economic Perspectives	Author: Veneta Dimitrova - Summary analysis of key economic data releases of the day and any changes or implications to key NDR macro indicators.	Daily
Asset Allocation		
Global Allocation	Summary of global asset allocation and regional/country allocation; includes insights into global market trends.	Weekly
Equities		
U.S. Markets	Summary of the U.S. stock market and current strategy.	Weekly
U.S. Sectors	Summary of U.S. sectors and industries and current strategy, as well as strategy and positioning commentary on the energy complex, including equity ideas and MLP insights.	Weekly
Sector Highlights	Summary of all 11 U.S. sectors and current strategy.	Weekly
Fixed Income		
Fixed Income Focus	Author: Joe Kalish - Analysis of the U.S. and Global fixed income markets including recommended instruments and duration exposure, yield curve implications and macro influences.	Bi-weekly
Macro & Fixed Income	Summary of global and domestic economies, and fixed income markets.	Weekly
Thematic		
Benchmark Review	Author: Ed Clissold - Review of market index returns and attribution for the prior quarter.	Quarterly
White Paper	Periodic publication providing analysis on investment topics and the application for the investment process.	Mixed
Implementation		
ETF Highlights	Author: Matt Bauer - Coverage of relevant market research based on ETFs as well as diverse NDR commentary applied to ETFs.	Bi-monthly
ETFs on the Move	Author: Matt Bauer - Identification of key ETF market leadership trends through tracking of flows as well as significant highs and lows.	Bi-monthly
ETF Model Update	Author: Brian Sanborn - Review of the ETF Model allocation changes as well as the data and factors impacting the model.	Monthly
U.S. Portfolio Strategy	Author: Brian Sanborn - U.S. stock model portfolio based on the integration of NDR's U.S. macro and market strategies and integrated factor analysis.	Monthly
Summary		
Daily Bullet Points	Daily summary of commentary released in the prior 24 hours.	Daily
Weekly Summary	Friday summary of select commentary across NDR research areas released over the past week.	Weekly
Research Summary	A portal to the weekly strategy summaries and highlights an important chart or study of the week.	Weekly
Market Digest	Author: Amy Lubas - Summary publication for Advisory product covering recent events, indicators, and studies NDR is monitoring.	Monthly

Clients also have access to:

- ~1,000 Charts, Indicators & Historical Views
 - Key NDR Asset Allocation Models
 - Market Sentiment Charts
- Fundamental Historical Data and Analysis
- ETF Model Portfolio, Screener & Other Tools
- Curated, Trending, & Recommended Content
 - Interactive Comparative Reports
 - Customized Content Lists and Alerts
- Visual Macro Perspectives
- Factor-Based Stock Portfolio, Screener & Tools
 - Technical Analysis and Historical Testing
 - Live and Recorded Webinars

Ned Davis Research advisorysales@ndr.com

www.ndr.com/wealth-managers (617) 279-4860



Insights: Ned's Insights



What We Offer

Ned's Insights offers commentary based on Ned Davis' 40+ years as a market observer while utilizing the wealth of NDR's historical indicators, models, and charts. Ned shares his philosophy on the trend, sentiment, and macro environments while delivering perspective on updated economic data through key models, charts, and reports, as well as weekly publications.

This service combines Ned's independent thoughts on trading strategies, sentiment, trend and monetary conditions, as well as charts, tools and key models..

Ned's Insights includes:

- Institutional Hotline (3x/week)
- Ned's thoughts on trend, sentiment, and macro analysis
- Fab Five Model
- Long-term trend charts for various asset classes
- ~175 key charts, reports, and indicators



Any product examples provided on this page are offered for illustrative purposes only and are not intended to reflect current opinions or views of NDR and its research team. Using any graph, chart, formula or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such device. Please see important additional disclaimers here: www.ndr.com/tterms-of-service



Insights: Energy



What We Offer

NDR's Energy Strategy provides actionable insights into the energy markets, particularly crude oil and the related sectors. If you want guidance on when to go long and when to get out of the crude oil market, what industries and even stocks provide opportunity within the energy space, then you will benefit from the Energy Strategy product.

A comprehensive service featuring energy commentary, models, and indicators created by our Energy Strategist. NDR's energy insights are crafted by combining unique industry knowledge with NDR's 360-degree philosophy. This top-down approach begins with an objective outlook on oil based on macro, fundamental, technical, and sentiment indicators. From there, we are able to craft unique Energy industry and stock insights and recommendations.

Energy Strategy includes:

- Bi-monthly Energy Strategy publication
- Top-down analysis of the crude oil market
- Sentiment toward crude oil
- Energy industry recommendations
- Energy stock ideas for the macro regime



Any product examples provided on this page are offered for illustrative purposes only and are not intended to reflect current opinions or views of NDR and its research team. Using any graph, chart, formula or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such device. Please see important additional disclaimers here: www.ndr.com/terms-of-service



Tools: Stock Selection



What We Offer

NDR's Global Stock Selection research helps investors identify stock-return drivers, evaluate portfolio holdings, and generate stock ideas. Following this objective, disciplined framework should help with unlocking alpha, mitigating risks and enhancing productivity. This service provides unique stock screening and portfolio analysis tools, in-depth actionable commentary (including themed baskets), and detailed stock information.

A comprehensive service providing broad, objective stock-selection analysis and implementation ideas through strategy publications, charts, tools, and model portfolios.

Global Stock Selection includes:

- Monthly U.S. and Europe Portfolio Strategy publications
- Factor research to identify stock-return drivers within a benchmark
- Portfolio management tools to evaluate current holdings for risks and opportunities
- Idea generation tools and data which contain over 200 individual factors and composite models
- Rankings and ratings on individual stocks



Sample models/charts/tools:

- Focus Ranks
- Stock Screener
- Valuation Tool

Any product examples provided on this page are offered for illustrative purposes only and are not intended to reflect current opinions or views of NDR and its research team. Using any graph, chart, formula or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such device. Please see important additional disclaimers here: www.ndr.com/terms-of-service



Publications	Description	Frequency
Commentary		
Portfolio Strategy	A monthly publication that recommends four-to-six factors and 40 S&P 500 stocks based upon the environment, technicals, and fundamentals.	Monthly
Factor Analysis		
Performance Reports	Reports depicting factor portfolio returns for over 200 metrics within various North American markets and sectors.	Weekly
Metrics Report	Report depicting factor portfolio trends, breadth, and relative valuations for over 200 metrics within North America.	Weekly
Correlation Reports	Reports depicting factor portfolio correlations for over 200 metrics within various North American markets and sectors.	Weekly
Portfolio Evaluation		
Dashboard	A flexible interactive tool providing return information, factor attributes, NDR ratings, and sector tilts for an uploaded portfolio or list of stocks.	N/A
Reverse Stock Screener	Calculates factor over- and underweights of a portfolio relative to a chosen benchmark.	N/A
Bubble Chart	Plots four factor composites (profitability, valuation, momentum, sentiment) for each stock in a portfolio.	N/A
Valuation Tool	For each stock in a portfolio this tool calculates fair value based upon free cash flow analysis, dividend discount model, residual income model, and relative valuations.	N/A
Chart Bundle Builder	Generates a chart bundle (technicals, fundamentals, macro exposures, sentiment) for each stock in a portfolio.	N/A
Stock Ideas		
Stock Screener	Run relative or absolute screens across thousands of North American stocks using more than 200 metrics.	N/A
Focus Ranks	The short-, intermediate-, and long-term Focus Ranks relatively rank U.S. and Canada Multi-Cap universes based upon fundamental and technical metrics.	Weekly
Tear Sheets	Each stock in the Focus Ranks coverage universe has an 11-page report showing the rating, analysts' estimates, fundamentals, technicals, risks, and macro exposures.	Weekly
Other Composite Models	There are other composite scores available including: sentiment score, price momentum ranking, growth score, and value score.	N/A
Transparency		
Product Guides	The models and tools each have a detailed product guide describing the thought process, backtests (when applicable), and usage instructions.	N/A
Performance Charts	The factor portfolios and composite models each have a backtest chart with dynamic options to view over chosen time periods.	N/A

Ned Davis Research advisorysales@ndr.com

www.ndr.com/wealth-managers (617) 279-4860



Tools: Digital Tools



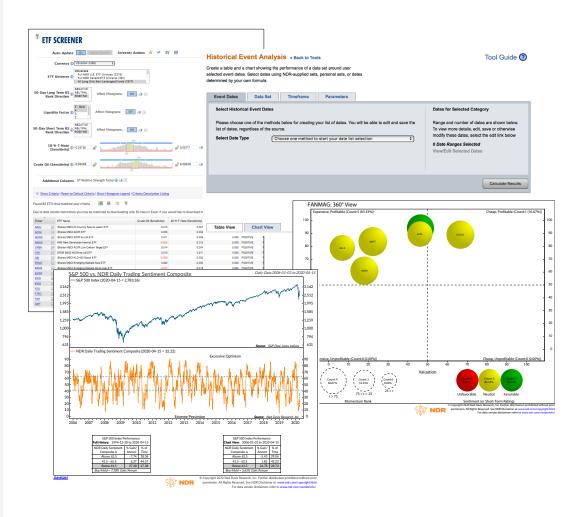
What We Offer

The NDR Digital Tools offering includes our robust interactive chart and report library, data, tools, and models, which allow investors to see the signals and avoid mistakes. Beyond our market and macro charts and reports, one also has access to our ETF and Stock implementation product charts and tools which can be used for security selection, evaluation, and analysis.

This service offering provides an extensive library of charts, event studies, flexible data reports, and customizable tools that can help you explore new ideas or validate existing ones.

NDR Digital Tools includes:

- 25,000+ Charts, Models, Indicators, & Historical Views
- 9,000+ Downloadable Data Sets
- 1,800+ Event Studies & Data Reports
- Powerful Set of Market, Stock & ETF Tools
- Plus ETF & Global Stock Screeners



Any product examples provided on this page are offered for illustrative purposes only and are not intended to reflect current opinions or views of NDR and its research team. Using any graph, chart, formula or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such device. Please see important additional disclaimers here: www.ndr.com/terms-of-service



	Description	Frequency
Ob auto (Dans au		
Charts/Reports		N 4"
Extensive Library	25,000+ Charts, Models, Indicators & Historical Views	Mixed
	erage of the U.S., Canada, Europe, U.K., and Asia)	
Factor Reports	Reports depicting factor portfolio returns, trends, breadth, correlations, and relative valuations for over 200 metrics within various markets and sectors.	Weekly
Dashboard	A flexible interactive tool providing return information, factor attributes, NDR ratings, and sector tilts for an uploaded portfolio or list of stocks.	N/A
Reverse Stock Screener	Calculates factor over- and underweights of a portfolio relative to a chosen benchmark.	N/A
Valuation Tool	For each stock in a portfolio this tool calculates fair value based upon free cash flow analysis, dividend discount model, residual income model, and relative valuations.	N/A
Chart Bundle Builder	Generates a chart bundle (technicals, fundamentals, macro exposures, sentiment) for each stock in a portfolio.	N/A
Stock Screener	Run relative or absolute screens across thousands of stocks using more than 200 metrics and models.	N/A
Focus Ranks	The short-, intermediate-, and long-term Focus Ranks relatively rank Multi-Cap universes based upon fundamental and technical metrics. Each stock in the Focus Ranks coverage universe has an 11-page data-driven report.	Weekly
ETF Selection		
Trend Ratings	Buy/Neutral/Sell ratings for ETFs based on indvidual technical models.	Daily
Relative Strength Rankings	Short and Long-Term momentum based relative strength rankings to identify outperformers/underperformers.	Daily
ETF Scores	Identifies the strongest/weakest ETFs based on seasonality, liquidity, mean reversion potential, and valuation.	N/A
Constituent Reports	Use breadth, short interest, and earnings revisions measures to identify equity ETFs with the strongest/weakest underlying constituents.	N/A
ETF Screener	Provides search/filter on thousands of North American ETFs using more than 200 factors.	N/A
ETF Insight	Interactive tool to compare ETFs head-to-head across a robust set of metrics.	N/A
Portfolio Analysis	Compare historical performance statistics of custom ETF/stock portfolios.	N/A
ETF Correlator	Identify ETFs with the highest correlation to a user-defined basket of stocks.	N/A
Asset Flows Reports	Reports to monitor individual ETF flows as well as ETF flows aggregated by exposure.	Daily
Interactive Tools		
Historical Event Analysis	Interactive tool which creates a table and a chart showing the performance of a data set around user selected event dates. Select dates using NDR-supplied sets, personal sets, or dates determined by your own formula.	N/A
Contribution Analysis	Interactive tool which creates a table and a chart showing the performance of a data set around user selected event dates. Select dates using NDR-supplied sets, personal sets, or dates determined by your own formula.	N/A
Correlation Matrix	Interactive tool which creates a table showing a correlation matrix of period-based returns for multiple assets in a wide selection of asset classes.	N/A

Clients also have access to:

- Curated, Trending, & Recommended Content
- Interactive Comparative Reports
- Customized Content Lists and Alerts
- Interactive Charting
- 9,000+ Downloadable Data Sets
- Additional Interactive Tools (Correlation Scatter Plot, Fundamental Data Plot, and Gains Excluding Best/Worst Periods)

Ned Davis Research advisorysales@ndr.com

www.ndr.com/wealth-managers (617) 279-4860





NDR Global Allocation Strategy

Start using our evidence-based investment approach

Founded in 1980, Ned Davis Research is a leading independent research firm with clients in over three dozen countries. Our clients include professionals from global investment firms, banks, insurance companies, mutual funds, hedge funds, pension and endowment funds, and registered investment advisors. Our models are derived from our evidence-based research which blends macro, fundamental, behavioral, and technical indicators using a proprietary analytical platform for great flexibility and customization. Ned Davis Research is an SEC registered investment advisor.

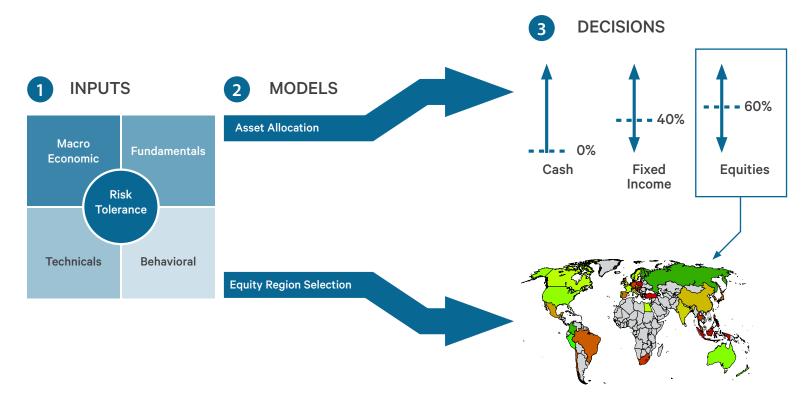
A disciplined tactical asset allocation strategy that objectively combines indicators to invest in promising opportunities across asset classes and regions.

About the strategy:

Each month, macroeconomic, fundamental, technical, and behavioral indicators are combined to:

- Allocate across global equities, fixed income, and cash
- Capitalize on regional equity opportunities in both developed and emerging markets
- Protect capital by raising cash as market conditions deteriorate

The strategy's benchmark is 60% MSCI ACWI Total Return Index (equities) and 40% Barclays U.S. Aggregate Total Return Index (fixed income).



Single Cusip Model & Signal Strategies

Day Hagan/NDR Smart Sector with Catastrophic Stop ETF

- » The goal of this strategy is to enhance returns over a buy-hold, U.S. large-cap equity benchmark by overweighting and underweighting sectors based on NDR's proprietary sector model and mitigating the effects of substantial market declines by reducing equity market exposure as dictated by NDR's U.S. Equity model.
- » ETF:
 - > SSUS
- » SMA:
 - > Schwab Marketplace: BT Master Number 08455957
 - > Fidelity: SAN Directory Master G-Number: G17273987; Ned Davis Smart Sector: G23435727
- » For more information: https://dhfunds.com/funds/day-hagan-ned-davis-research-smart-sector-etf-fund/

VanEck NDR Managed Allocation Fund

- » The VanEck NDR Managed Allocation Fund is a tactical asset allocation fund that has the flexibility to allocate among securities and cash, helping investors with core asset allocation decisions. The fund allocates to global stocks and U.S. fixed income through exchange-traded products (ETPs) with the ability to raise significant cash to limit drawdowns during extreme market events.
- » Fund:
 - > NDRMX
- » For more information: https://www.vaneck.com/mutual-fund/asset-allocation/ndrmx/overview/

• VanEck Vectors Long/Flat Trend ETF

- » VanEck Vectors Long/Flat Trend ETF (LFEQ®) seeks to replicate as closely as possible, before fees and expenses, the price and yield performance of the Ned Davis Research CMG US Large Cap Long/Flat Index (NDRCMGLF). The NDRCMGLF Index follows a proprietary model that determines when, and by how much, it allocates to U.S. equities and/or U.S. Treasury bills to seek to help avoid losses in declining markets or capitalize from rising markets. The model produces daily trade signals to determine the Index's equity allocation percentage (100%, 50%, or 0%).
- » ETF
 - , LFEQ
- » For more information: https://www.vaneck.com/etf/equity/lfeq/overview

NED DAVIS RESEARCH

NDRsales@ndr.com www.ndr.com (800) 241-0621

VENICE

600 Bird Bay Drive West Venice, FL 34285 (941) 412-2300

NEW YORK

1120 Avenue of the Americas 6th Floor New York, NY 10036 (646) 810-7270

BOSTON

711 Atlantic Ave 6th Floor Boston, MA 02110 (617) 279-4860

ATLANTA

7000 Central Parkway Suite 1100 Atlanta, GA 30328 (678) 303-0097

SAN FRANCISCO

50 California Street Suite 1500 San Francisco, CA 94111 (415) 277-5477

LONDON

8 Bouverie Street Temple, London EC4Y 8AX +44 (0) 20 7779-8682

HONG KONG

38/F Hopewell Centre 183 Queen's Road East Wanchai +852 3416 6676

AUSTRALIA

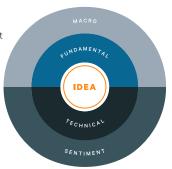
19/1 O'Connell Street Sydney, Australia +61282491867



See the signals. Avoid mistakes.

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.



Important Information and Disclaimers

NDR (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.

The data and analysis contained in NDR's publications are provided "as is" and without warranty of any kind, either expressed or implied. The information is based on data believed to be reliable, but it is not guaranteed. NDR DISCLAIMS ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE.

NDR's reports reflect opinions of our analysts as of the date of each report, and they will not necessarily be updated as views or information change. All opinions expressed therein are subject to change without notice, and you should always obtain current information and perform due diligence before trading. NDR or its affiliated companies or their respective shareholders, directors, officers and/or employees, may have long or short positions in the securities discussed in NDR's publications and may purchase or sell such securities without notice.

NDR uses and has historically used various methods to evaluate investments which may, at times, produce contradictory recommendations with respect to the same securities. When evaluating the results of prior NDR recommendations or NDR performance rankings, one should also consider that NDR may modify the methods it uses to evaluate investment opportunities from time to time, that model results do not impute or show the compounded adverse effect of transaction costs or management fees or reflect actual investment results, that other less successful recommendations made by NDR are not included with these model performance reports, that some model results do not reflect actual historical recommendations, and that investment models are necessarily constructed with the benefit of hindsight. Unless specifically noted on a chart, report, or other device, all performance measures are purely hypothetical, and are the results of back-tested methodologies using data and analysis over time periods that pre-dated the creation of the analysis and do not reflect tax consequences, execution, commissions, and other trading costs. For these and for many other reasons, the performance of NDR's past recommendations and model results are not a guarantee of future results.

Using any graph, chart, formula, model, or other device to assist in deciding which securities to trade or when to trade them presents many difficulties and their effectiveness has significant limitations, including that prior patterns may not repeat themselves continuously or on any particular occasion. In addition, market participants using such devices can impact the market in a way that changes the effectiveness of such devices. NDR believes no individual graph, chart, formula, model, or other device should be used as the sole basis for any investment decision and suggests that all market participants consider differing viewpoints and use a weight of the evidence approach that fits their investment needs. Any particular piece of content or commentary may or may not be representative of the NDR House View, and may not align with any of the other content or commentary that is provided in the service. Performance measures on any chart or report are not intended to represent the performance of an investment account or portfolio, as some formulas or models may have superior or inferior results over differing time periods based upon macro-economic or investment market regimes. NDR generally provides a full history of a formula or model's hypothetical performance, which often reflects an "all in" investment of the represented market or security during "buy", "bullish", or similar recommendations. This approach is not indicative of the intended usage of the recommendation in a client's portfolio, and for this reason NDR does not typically display returns as would be commonly stated when reporting portfolio performance. Clients seeking the usage of any NDR content in a simulated portfolio back-test should contact their account representative to discuss testing that NDR can perform using the client's specific risk tolerances, fees, and other constraints.

NDR's reports are not intended to be the primary basis for investment decisions and are not designed to meet the particular investment needs of any investor. The reports do not address the suitability of any particular investment for any particular investor. The reports do not address the tax consequences of securities, investments, or strategies, and investors should consult their tax advisors before making investment decisions. Investors should seek professional advice before making investment decisions. The reports are not an offer or the solicitation of an offer to buy or to sell a security.

Further distribution prohibited without prior permission. Full terms of service, including copyrights, terms of use, and disclaimers are available at https://www.ndr.com/web/ndr/terms-of-service. For data vendor disclaimers, refer to www.ndr.com/vendorinfo.

Copyright 2020 (c) Ned Davis Research, Inc. All rights reserved.