Intech® U.S. Adaptive Volatility
Product summary for institutional investors only

**Overview**
Intech® adaptive volatility strategies are a hybrid of our active core and low volatility equity platforms – a distinctive industry offering. These distinctive strategies attempt to offer an asymmetric return profile by outperforming the equity market over a full market cycle with downside protection.

**Investment Platform:** Defensive

**Benchmark:** Russell 1000 Index

**Expected Risk Reduction:** Up to 40%

**Inception Date:** 2013-6-1

Expected risk reduction includes an effort to manage risk relative to a benchmark index, which should not be confused with and does not imply low investment risk or the ability to control risk. It is a long-term annualized forecast gross of fees. Do not consider or rely on it as a performance guarantee. Actual results may vary.

**Applications**
These strategies may address a wide range of needs:
- Allow for higher equity exposure throughout a target-date glide path
- De-risk an under-funded plan without reducing equity exposure
- Increase equity exposure without increasing total risk
- Insulate beta risk from unpredictable market shocks
- Reduce plan surplus volatility
Philosophy and Process

An Approach with Real Distinction

We adhere to an investment paradigm that’s different than traditional financial economics embraced by most asset managers – both fundamental and quantitative. Our approach is linked to Modern Portfolio Theory, but we base our decision model on observations, not expectations. Our model inputs are observed stock price volatility and correlations. We don’t rely on subjective forecasts of markets, factors or company performance.

Construct a portfolio more efficient than the benchmark by reweighting its constituents to the optimal proportions for a given risk-return objective.

We believe:

- Equity volatility is an observable and accessible alpha source whether markets are up or down.
- Long-term stability in the distribution of capital allows persistent access to this opportunity.
- Harnessing volatility for risk-adjusted results requires advanced mathematics and programmatic trading systems.

Straightforward Three-step Process

Our Princeton-based investment team applies our approach across a three-step process designed to deliver consistent results over time:

1. Estimate volatility and correlations of the stocks in a benchmark.

2. Optimize portfolio weights for diversification consistent with our clients’ risk-return objectives.


Volatility Reduction Adjusts to the Market Environment

As of March 31, 2019

![Volatility Reduction Graph]

Source: Barra. Representative portfolio shown; results for other accounts may differ. Data presented reflects past performance, which is no guarantee of future results.
PORTFOLIO RESULTS AND COMPOSITION

As of March 31, 2019

PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>Annualized Since Inception</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>QTD</td>
</tr>
<tr>
<td>Gross of Fees</td>
<td>13.33%</td>
</tr>
<tr>
<td>Russell 1000 Index</td>
<td>14.00%</td>
</tr>
<tr>
<td>Difference (Gross-Index)</td>
<td>-0.67%</td>
</tr>
<tr>
<td>Net of Fees</td>
<td>13.17%</td>
</tr>
</tbody>
</table>

RISK STATISTICS

Annualized Since Inception

<table>
<thead>
<tr>
<th></th>
<th>Standard Deviation</th>
<th>Volatility Reduction</th>
<th>Sharpe Ratio</th>
<th>Downside Capture</th>
<th>Upside Capture</th>
<th>Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross of Fees</td>
<td>9.94%</td>
<td>11%</td>
<td>1.13</td>
<td>64.32%</td>
<td>79.92%</td>
<td>0.86</td>
</tr>
<tr>
<td>Russell 1000 Index</td>
<td>11.22%</td>
<td>---</td>
<td>1.03</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

PORTFOLIO CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>U.S. Adaptive Volatility</th>
<th>Russell 1000 Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Securities</td>
<td>150</td>
<td>978</td>
</tr>
<tr>
<td>Beta*</td>
<td>N/A</td>
<td>1.00</td>
</tr>
<tr>
<td>R-Squared*</td>
<td>N/A</td>
<td>1.00</td>
</tr>
<tr>
<td>Price/Earnings Ratio (LTM)</td>
<td>29.03</td>
<td>26.58</td>
</tr>
<tr>
<td>Dividend Yield (Current)</td>
<td>2.00%</td>
<td>1.95%</td>
</tr>
<tr>
<td>EPS Growth (5 Yr. Historical)</td>
<td>11.31%</td>
<td>10.17%</td>
</tr>
<tr>
<td>Price/Book Ratio</td>
<td>4.65</td>
<td>5.04</td>
</tr>
<tr>
<td>Weighted Average Market Cap</td>
<td>$37.4 B</td>
<td>$209.4 B</td>
</tr>
<tr>
<td>Weighted Median Market Cap</td>
<td>$18.8 B</td>
<td>$92.4 B</td>
</tr>
</tbody>
</table>

SECTOR EXPOSURES

- Communication Services
- Consumer Discretionary
- Consumer Staples
- Energy
- Financials
- Health Care
- Industrials
- Information Technology
- Materials
- Real Estate
- Utilities

PORTFOLIO MARKET CAPITALIZATION

<table>
<thead>
<tr>
<th>Market Cap Range</th>
<th>U.S. Adaptive Volatility</th>
<th>Russell 1000 Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; $100B</td>
<td>5.04%</td>
<td>47.87%</td>
</tr>
<tr>
<td>$25B - $100B</td>
<td>31.12%</td>
<td>28.65%</td>
</tr>
<tr>
<td>$15B - $25B</td>
<td>21.21%</td>
<td>8.62%</td>
</tr>
<tr>
<td>$2B - $15B</td>
<td>42.64%</td>
<td>14.80%</td>
</tr>
<tr>
<td>&lt; $2B</td>
<td>0.00%</td>
<td>0.06%</td>
</tr>
<tr>
<td>Total</td>
<td>100.00%</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

TOP-TEN PORTFOLIO HOLDINGS

- Ameren Corporation
- AutoZone, Inc.
- CME Group Inc. Class A
- DTE Energy Company
- Evergy, Inc.
- Lululemon Athletica Inc
- NextEra Energy Inc.
- Progressive Corporation
- Republic Services, Inc.
- V.F. Corporation

% of Portfolio: **15.0%**

*Beta and R-Squared are deemed statistically insignificant as there is less than three years of available data.
Source: Intech® and FactSet. Performance and risk statistics reflect strategy composite. Portfolio characteristics, market capitalization, sector exposures, and/or country exposures reflect strategy representative portfolio. Periods of less than one year are not annualized. Data presented reflects past performance, which is no guarantee of future results. Performance includes the reinvestment of dividends and other earnings. Differences may not agree with input data due to rounding. Portfolio data is as of the date shown and may change at any time. Individual accounts may differ from the representative portfolio. See Presentation Notes for additional information.
About Intech®

Intech® is a specialized global asset management firm that harnesses stock price volatility as a source of excess return and a key to risk control. Founded in 1987 in Princeton, NJ by pioneering mathematician Dr. E. Robert Fernholz, Intech® serves institutional investors across five continents, delivering relative return, low volatility, adaptive volatility and absolute return investment solutions.

Presentation Notes

Intech® Investment Management LLC (“Intech”) is a specialized global asset manager registered under the Investment Advisers Act of 1940 that applies advanced mathematics and systematic portfolio rebalancing to exploit a unique and reliable source of excess returns and risk control – stock price volatility. Intech® is a subsidiary of Janus Henderson Group plc (NYSE: JHG) and is affiliated with its subsidiaries and affiliates. Past performance cannot guarantee future results. Investing involves risk, including the possible loss of principal and fluctuation of value. In addition, the proprietary mathematical investment process used by Intech® may not achieve the desired results. Performance results reflect the reinvestment of dividends and other earnings. Portfolio performance results shown are time-weighted rates of return using daily valuation, include the effect of transaction costs (commissions, exchange fees, etc.), and are gross of non-reclaimable withholding taxes, if any. The composite includes all actual fee-paying accounts managed on a fully discretionary basis according to the investment strategy from inception date, including those no longer under management. Accounts meeting such criteria enter the composite upon the full first month under management. For periods of less than one year, performance is not annualized. Reporting currency is USD unless otherwise noted. Intech® claims compliance with the Global Investment Performance Standards (GIPS®). To receive a complete list of composite descriptions and/or presentations that adhere to the GIPS standards, please contact Intech® at Finance@intechinvestments.com.

The gross performance results presented do not reflect the deduction of investment advisory fees. Returns will be reduced by such advisory fees and other contractual expenses as described in each client’s individual contract.

The net performance results presented reflect the deduction of model investment advisory fees, and not the advisory fees actually charged to the accounts in the composite. Prior to December 31, 2004, the model advisory fees deducted reflect the maximum fixed fee in effect for each strategy. Beginning January 1, 2005, the model advisory fees deducted reflect the standard fee schedule in effect during the period shown, applied to each account in the composite on a monthly basis. Standard fee schedules are available upon request. Actual advisory fees paid may vary among clients invested in the same strategy, which may be higher or lower than the model advisory fees. Some accounts may utilize a performance-based fee.

U.S. Adaptive Volatility Composite, previously named the U.S. Managed Volatility Composite, includes all fully discretionary separately managed portfolios invested in this strategy. The strategy pursues a risk-managed approach to construct a diversified portfolio of U.S. large capitalization securities. The benchmark is the Russell 1000 Index. The objective is to outperform the benchmark over the full market cycle, with a total volatility (standard deviation) below that of the index. The composite was created in June 2013.

The Russell 1000 Index measures performance of the 1,000 largest companies in the Russell 3000 Index.

The Index returns are provided to represent the investment environment existing during the time periods shown and are not covered by the report of independent verifiers. For comparison purposes, the index is fully invested, which includes the reinvestment of dividends and capital gains. The returns for the index do not include any transactions costs, management fees or other costs, and are gross of dividend tax withholdings unless otherwise noted. Composition of each separately managed account portfolio may differ from securities in the corresponding benchmark index. The index is used as a performance benchmark only, as Intech® does not attempt to replicate an index. The weightings of securities within the portfolio may differ significantly from the weighting within the index. The index is not available for direct investment; therefore, its performance does not reflect the experiences associated with the active management of an actual portfolio.

Investments are subject to certain risks, including currency fluctuations and changes in political and economic conditions, which could result in significant market fluctuations. These risks are magnified for portfolios that include emerging markets.

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