
Quantitative Investment Decisions, LLC was founded with one objective in mind – to help investors protect assets in the event of an extended market downturn. While no investment model can predict the unexpected, QID’s strategies help remove emotional and irrational behavior from the investment decision process. By limiting downside risk and participating in the market upside, the intent is to outperform an appropriate benchmark over a market cycle. QID strategies are built using 100% quantitative, proprietary algorithms that identify and react to changing market conditions. Our strategies tend to provide a more asymmetric risk profile with reduced left tail risk. QID provides investors the diversification they need with the downside protection that they desire.

International Equity GDP Strategy Features

- 100% quantitative process that focuses primarily on downside risk, especially in weak markets
- Under extreme market conditions, the strategy can build and hold substantial cash positions to avoid losses
- Employs NO shorting, leverage, inverse ETFs, or exotic derivative investments
- Broad non-U.S. equity regional and country diversification
- Weighting system is based on non-U.S. global GDP weight, per country/region
- Multiple ETF sponsors
- \$1,000,000 account minimum

Portfolio Expectations

The QID International Equity GDP Strategy is designed to limit losses during extended market downturns. The strategy endeavors to deliver attractive risk-adjusted returns through multiple investment markets. The strategy is diversified and may use a defensive allocation to cash equivalents or U.S. Treasury instruments.

ETF Universe

The ETF’s used in the International Equity GDP Strategy are chosen based upon a proprietary scoring system. The system considers such factors as tracking error, liquidity and cost efficiency. The strategy may use ETFs from one or multiple sponsors.

Ron Santangelo, CFA®

Chief Investment Officer
Portfolio Manager



Since the early 1990’s, Mr. Santangelo has been an industry

leader in the development of advanced quantitative methods and enhanced returns-based style analysis. As the Manager of Managed Products Research, at Merrill Lynch, Mr. Santangelo assisted in the development of the SPDR® sector ETF’s. His focus, throughout his career, has been on controlling downside risk and quantitative investment strategies.

Investment Process

The QID International Equity GDP Strategy provides broad exposure to international equities and allocates the portfolio across major international economic areas. The portfolio, when fully invested, is constructed with up to five country/regional exchange traded funds.

Each QID Strategy utilizes built-in downside loss protection. The model will look at each ETF separately to determine the likelihood of significant loss. The strategy is diversified across countries and company specific risk by selecting positions across the universe of Exchange Traded Funds (ETFs).

QID's 100% quantitative process produces binary (on/off – own/don't own) signals for each ETF. The strategy uses set percentages for the allocation to each ETF. The weighting of the country/regional ETFs is based on a GDP weighting system which results in a higher exposure to emerging markets.

A defensive position will begin to build as each ETF is sold. The weighting of the defensive position (i.e. cash equivalents or U.S. Treasury instruments) is determined by the original weighting of the country/ regional ETF that is removed. The portfolio will go 100% defensive when all international ETFs have been sold.

International Equity GDP Strategy

Investment Process



Quantitative Investment Decisions employs a four-step quantitative process in building and managing its tactical strategies:

1. Decide when to own or not own a specific sector, asset class or international market
2. Select the appropriate ETF for each sector or asset class using a proprietary scoring system that considers factors such as tracking error, liquidity and cost efficiency
3. Sector weighting is based on non-U.S. global GDP weight, per country/region
4. When a defensive position is employed, determine which cash or U.S. Treasury instrument is appropriate

Country / Regional Breakdown

International Equity GDP Strategy
Asia-Pacific (excluding Japan)
Canada
Emerging Markets
Europe
Japan

Source: QID

Performance Returns

Annualized Returns through 12/31/2018	Quantitative Investment Decisions International Equity GDP		Index
	Gross	Net	
3 Months	-3.30%	-3.41%	-11.46%
Year-to-Date	-5.08%	-5.34%	-14.20%
Trailing 1 Year	-5.08%	-5.34%	-14.20%
Trailing 2 Year	6.78%	6.27%	4.47%

Return/Risk Analysis

04/01/2016 to 12/31/2018	Quantitative Investment Decisions International Equity GDP		Index
	Gross	Net	
Best Month	7.26%	7.17%	5.57%
Worst Month	-5.99%	-5.99%	-8.13%
% of Up Months	63.64%	60.61%	66.67%
% of Down Months	36.36%	39.39%	33.33%
Maximum Drawdown (%)	-11.50%	-11.67%	-18.72%

Yearly Returns

	Quantitative Investment Decisions International Equity GDP		Index
	Gross	Net	
2017	20.12%	19.30%	27.19%
2016	n/a	n/a	n/a

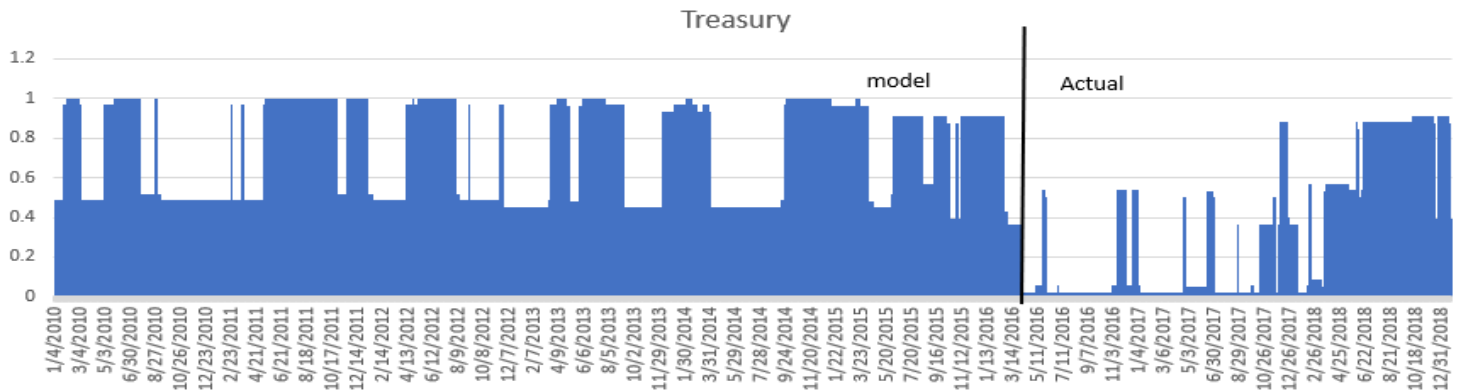
Source: QID
 Portfolio inception date: 4/01/2016
 All returns over 1 year are annualized.
 Index: MSCI World (excluding USA) GR; the returns for the index shown include dividend reinvestment.

Comparative Return/Risk Analysis

04/01/2016 to 12/31/2018	Quantitative Investment Decisions International Equity GDP Gross
Alpha	0.44%
Beta	0.57
Annualized Standard Deviation	7.85%
R-Squared	54.59%
Up Capture Ratio	63.24%
Down Capture Ratio	58.73%

Historic Cash Allocation

Data through December 31, 2018



Note: All data prior to April 1, 2016 is based upon backtested, hypothetical results. Please see disclosure on back page.
 Source: QID

International Equity GDP Country/Regional Allocation as of 12/31/2018

Asia-Pacific (excluding Japan)	3.92%
Canada	0%
Emerging Markets	0.00%
Europe	0.00%
Japan	8.82%
Cash Equivalent	87.26%

DISCLOSURES

Compliance Statement

Quantitative Investment Decisions (“QID” or the “Advisor”) claims compliance with the Global Investment Performance Standards (GIPS®).

QID has been independently verified by ACA Compliance Group. From April 1, 2016, through December 31, 2016, the performance results shown in this fact sheet is that of a composite of client accounts according to the dictates of the Program.

A compliant presentation, including the performance data for the composite, may be obtained by contacting QID at 239.631.8912 or by emailing info@qidllc.com.

Firm Definition

Quantitative Investment Decisions is registered in the state of Florida as a registered investment advisor organized as a Limited Liability Company (“LLC”) under the laws of the State of Delaware, whose principal place of business is in Naples, FL. The International Equity GDP strategy algorithm was initially developed by QID’s founder, Ron Santangelo, in 2009.

On a quarterly basis, QID reviews a list of all accounts, under discretionary management by the firm, to ensure that only actual assets managed or sub-advised by QID are included in QID’s composite results. Accounts deemed to be non-discretionary, advisory only, hypothetical, or model in nature are excluded from the composite. Total firm assets comprise all discretionary accounts (whether fee-paying or not) for which QID has investment management responsibility, including assets managed by sub-advisors that QID has authority to select.

Composite Description and Benchmark

The International Equity GDP strategy is a long-term growth strategy that invests in Exchange Traded Funds (ETFs) using a proprietary trading algorithm. The objective of the strategy is capital preservation, resulting in long-term appreciation over a market cycle. The International Equity GDP Strategy consists of up to five ETFs representing major non-domestic (international) economic regions and or countries. Charts included in this fact sheet show the total return of the composite, including reinvestment of all dividends. Returns are shown separately as gross (GR) and net (NR). Gross performance has been reduced by transaction costs. Net performance has been reduced by transaction and management fee. QID claims compliance with the Global Investment Performance Standards (GIPS®).

The benchmark for the International Equity GDP strategy is the MSCI ACWI ex. USA NR index. The returns for the index shown include dividend reinvestment.

The strategy is constructed with widely available ETFs representing the various sectors, asset classes, and or international regions contained in the portfolio. There is no guarantee that the price and yield performance of the index can be fully matched.

Risks

No investment strategy or risk management technique can guarantee returns or eliminate risk in any given market environment. Neither asset allocation or diversification can guarantee a profit or protect against loss. Investment returns may fluctuate and are subject to market volatility, so that an investor’s shares, when redeemed or sold, may be worth more or less than their original cost. QID’s actively managed strategies may underperform their benchmark. The investment strategy presented is not appropriate for every investor and individual clients should review the terms, conditions, and risk involved with specific products or services. Individual client accounts may have experienced investment results during the corresponding time periods that were materially different from those of the composite returns. The U.S. Dollar is the currency used to express performance.

Performance data shown is past performance. Past performance is no guarantee of future results. Potential investors should consult with their financial advisor before investing in any investment product. Investment in equity strategies involves substantial risk and has the potential for partial or complete loss of funds invested.

Hypothetical Back-Tested Performance and Analytics

Backtested performance is NOT an indicator of future actual results. There are limitations inherent in hypothetical results particularly that the performance results do not represent the results of actual trading using client assets, but were achieved by means of retroactive application of a backtested model that was designed with the benefit of hindsight. The results reflect the performance of a strategy not historically offered to investors and do NOT represent

returns that any investor actually attained. Backtested results are calculated by the retroactive application of a model constructed on the basis of historical data and based on assumptions integral to the model which may or may not be testable and are subject to losses. Backtested performance is developed with the benefit of hindsight and has inherent limitations.

Specifically, backtested results do not reflect actual trading, or the effect of material economic and market factors on the decision making process, or the skill of the adviser. Since trades have not actually been executed, results may have under-or-over-compensated for the impact, if any, of certain market factors, such as lack of liquidity, and may not reflect the impact that certain economic or market factors may have had on the decision-making process. Further, back-testing allows the security selection methodology to be adjusted until past returns are maximized.

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