

## Nomura Japan Equity High Dividend 70 Market Neutral Index

EQUITY QUANTITATIVE RESEARCH

### Can be used as an alternative to bond investment

#### **Aims for high performance through a high-dividend investment strategy hedged against market risk**

We have developed the Nomura Japan Equity High Dividend 70 Market Neutral Index to reflect the performance of a market-neutral strategy involving a combination of long positions in the Nomura Japan Equity High Dividend 70, Total Dividend Weighted with short positions in TOPIX futures.

Index values are calculated from the difference between the return on the Nomura Japan Equity High Dividend 70, Total Dividend Weighted (the "underlying index") and the beta-adjusted return on TOPIX futures. The index is meant to extract only the excess return versus the market for a high-dividend stock investment strategy (known as one example of a smart beta strategy), and aims to reap high dividend yields and stable returns regardless of market direction.

The underlying index, which corresponds to the long side of the new index, comprises 70 large cap high-liquidity Japanese stocks selected for high forecast dividend yield. Stocks are screened for DOE (total dividends/shareholders' equity) to take quality and stability of dividends into account, and the index is designed for easier management on a large asset scale by weighting the stocks by total dividend value. On the short side of the new index, the hedge ratio used for hedging with TOPIX futures is adjusted on a daily basis to reflect the beta of the underlying index versus the TOPIX. This allows for precise hedging of short-term market fluctuations.

This market-neutral index shows high performance from the perspective of risk-adjusted returns, with average annual returns of 3.25% between February 2002 and October 2017, with annualized risk of 5.35% and a return-risk ratio of 0.61 (Figure 1). As a result of this hedging of market risk, the index has a risk-return profile somewhere between bonds and stocks, and could thus be characterized as middle-risk, middle-return. Forecast dividend yield for the underlying index has been stably higher than that of the TOPIX (Figure 2). The most recent data (at the beginning of November 2017) shows forecast dividend yield for the underlying index 1ppt higher than for the TOPIX, suggesting that stable income gains from dividends can be expected.

Since the BOJ's introduction of NIRP, demand has risen sharply for alternatives to bond investment that have relatively low risk but that offer stable performance and income gains. It is our hope that this index can be useful in addressing these needs.

### Global Markets Research

15 November 2017

### Research analysts

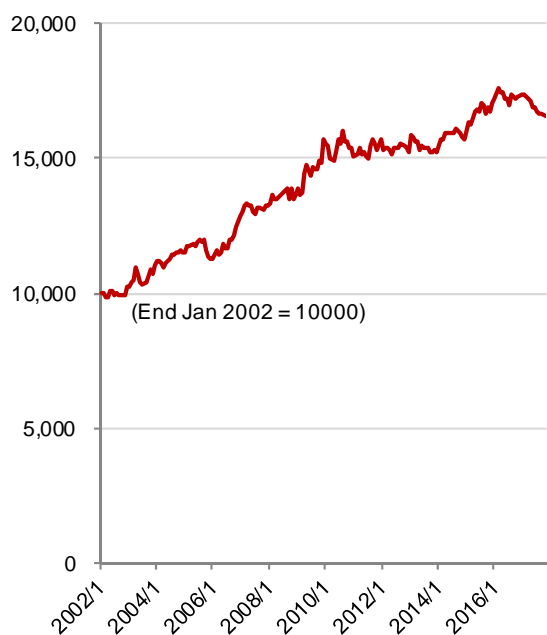
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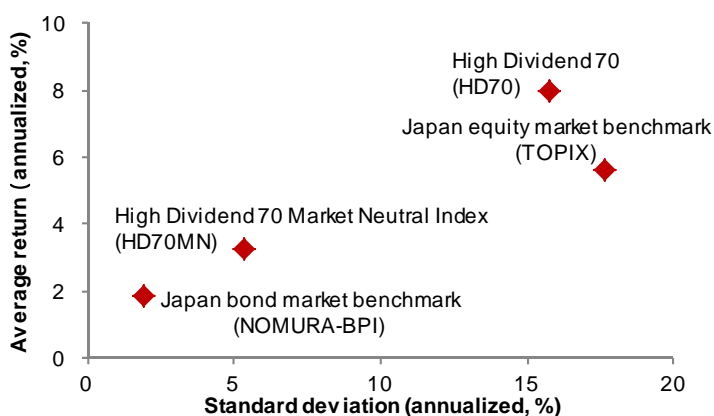
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**Fig. 1: Performance summary**

High Dividend70 Market Neutral Index



Risk-return profile (Feb 2002-Oct 2017)



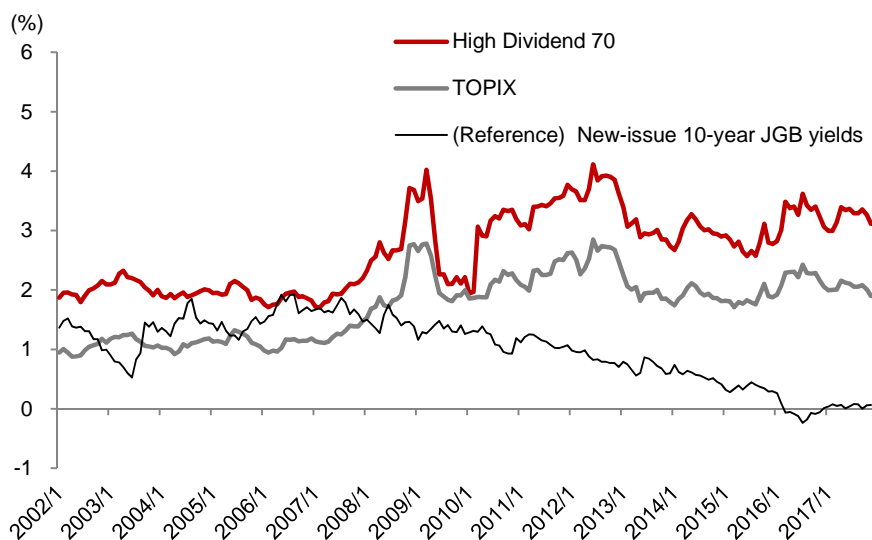
	HD70MN	HD70	TOPIX	NOMURA-BPI
Geometric mean return (annualized, %)	3.25	7.98	5.65	1.84
Standard deviation (annualized, %)	5.35	15.75	17.61	1.93
Return/risk	0.61	0.51	0.32	0.96

Note: Index returns including dividends from February 2002 through October 2017. Risk-return profile calculated from monthly returns.

Transaction costs are not included. Analysis is based on past performance and does not guarantee future performance.

Source: Nomura

**Fig. 2: Forecast dividend yield**



Note: Dividend yield forecasts are calculated based on the weighted average of current fiscal year dividend yield forecasts for constituent stocks as of the start of each month and each stock's weighting in the index as of the end of the previous month. New-issue 10-year JGB yields use yields as of the end of the previous month as the starting values for each month.

Source: Nomura

\*For details on the underlying index and this market neutral index, see our securities market index website (Japanese only: <http://qr.nomura.co.jp/jp/index.html>)

# Appendix A-1

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As at 30 September 2017.

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When Japanese government bonds (JGBs) for individual investors are purchased via public offerings, only the purchase price shall be paid, with no sales commission charged. As a rule, JGBs for individual investors may not be sold in the first 12 months after issuance. When JGBs for individual investors are sold before maturity, an amount calculated via the following formula will be subtracted from the par value of the bond plus accrued interest: (1) for 10-year variable rate bonds, an amount equal to the two preceding coupon payments (before tax) x 0.79685 will be used, (2) for 5-year and 3-year fixed rate bonds, an amount equal to the two preceding coupon payments (before tax) x 0.79685 will be used. When inflation-indexed JGBs are purchased via public offerings, secondary distributions (uridashi deals), or other OTC transactions with Nomura Securities, only the purchase price shall be paid, with no sales commission charged. Inflation-indexed JGBs carry the risk of losses, as prices fluctuate in line with changes in market interest rates and fluctuations in the nationwide consumer price index. The notional principal of inflation-indexed JGBs changes in line with the rate of change in nationwide CPI inflation from the time of its issuance. The amount of the coupon payment is calculated by multiplying the coupon rate by the notional principal at the time of payment. The maturity value is the amount of the notional principal when the issue becomes due. For J117 and subsequent issues, the maturity value shall not undercut the face amount. Purchases of investment trusts (and sales of some investment trusts) are subject to a purchase or sales fee of up to 5.4% of the transaction amount. Also, a direct cost that may be incurred when selling investment trusts is a fee of up to 2.0% of the unit price at the time of redemption. Indirect costs that may be incurred during the course of holding investment trusts include, for domestic investment trusts, an asset management fee (trust fee) of up to 5.4% (annualized basis) of the net assets in trust, as well as fees based on investment performance. Other indirect costs may also be incurred. For foreign investment trusts, indirect fees may be incurred during the course of holding such as investment company compensation.

Investment trusts invest mainly in securities such as Japanese and foreign equities and bonds, whose prices fluctuate. Investment trust unit prices fluctuate owing to price fluctuations in the underlying assets and to foreign exchange rate fluctuations. As such, investment trusts carry the risk of losses. Fees and risks vary by investment trust. Maximum applicable fees are subject to change; please thoroughly read the written materials provided, such as prospectuses or documents delivered before making a contract.

In interest rate swap transactions and USD/JPY basis swap transactions ("interest rate swap transactions, etc."), only the agreed transaction payments shall be made on the settlement dates. Some interest rate swap transactions, etc. may require pledging of margin collateral. In some of these cases, transaction payments may exceed the amount of collateral. There shall be no advance notification of required collateral value or collateral ratios as they vary depending on the transaction. Interest rate swap transactions, etc. carry the risk of losses owing to fluctuations in market prices in the interest rate, currency and other markets, as well as reference indices. Losses incurred as such may exceed the value of margin collateral, in which case margin calls may be triggered. In the event that both parties agree to enter a replacement (or termination) transaction, the interest rates received (paid) under the new arrangement may differ from those in the original arrangement, even if terms other than the interest rates are identical to those in the original transaction. Risks vary by transaction. Please thoroughly read the written materials provided, such as documents delivered before making a contract and disclosure statements.

In OTC transactions of credit default swaps (CDS), no sales commission will be charged. When entering into CDS transactions, the protection buyer will be required to pledge or entrust an agreed amount of margin collateral. In some of these cases, the transaction payments may exceed the amount of margin collateral. There shall be no advance notification of required collateral value or collateral ratios as they vary depending on the financial position of the protection buyer. CDS transactions carry the risk of losses owing to changes in the credit position of some or all of the referenced entities, and/or fluctuations of the interest rate market. The amount the protection buyer receives in the event that the CDS is triggered by a credit event may undercut the total amount of premiums that he/she has paid in the course of the transaction. Similarly, the amount the protection seller pays in the event of a credit event may exceed the total amount of premiums that he/she has received in the transaction. All other conditions being equal, the amount of premiums that the protection buyer pays and that received by the protection seller shall differ. In principle, CDS transactions will be limited to financial instruments business operators and qualified institutional investors.

No account fee will be charged for marketable securities or monies deposited. Transfers of equities to another securities company via the Japan Securities Depository Center are subject to a transfer fee of up to ¥10,800 per issue transferred depending on volume.

**Nomura Securities Co., Ltd.**

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