

### **Dimensions of Returns**

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## Financial Capital Plays a Vital Role in Wealth Creation

Using financial capital and other resources, a business produces goods or services that can be sold for a profit.

As providers of financial capital, investors expect a return on their money.





## Stocks and Bonds Are Conduits for Capital



Bondholders are lenders to a company.

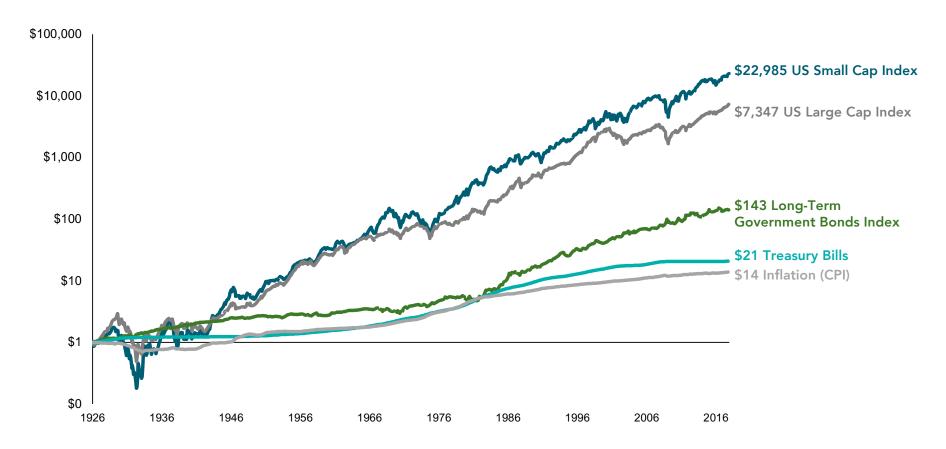
Stockholders are equity owners in the business.

Both expect an adequate return for the terms and risk of their investment.



# The Capital Markets Have Rewarded Long-Term Investors

Monthly growth of wealth (\$1), 1926–2017



#### In US dollars.

US Small Cap Index is the CRSP 6–10 Index; US Large Cap Index is the S&P 500 Index; Long-Term Government Bonds Index is 20-year US government bonds; Treasury Bills are One-Month US Treasury bills; Inflation is the Consumer Price Index. 1-Month Treasury Bills Index is the IA SBBI US 30 Day TBill TR USD. Treasury Index data sourced from Ibbotson Associates, via Morningstar Direct. CRSP data provided by the Center for Research in Security Prices, S&P data copyright 2018 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. Bonds, T-bills, and inflation data provided by Morningstar.

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## Markets Compensate Non-Diversifiable Risk

Risk is a complex concept—it is always present, even if it has not been realized, and it cannot be directly observed until it occurs.

The sources of return are directly observable, and decades of academic research have advanced our understanding of them.

Investors balance risk and return by incorporating their expectations and preferences into securities prices.





# Dimensions Point to Differences in Expected Returns

Academic research has identified these dimensions, which are well documented in markets around the world and across different time periods.



<sup>1.</sup> Relative price as measured by the price-to-book ratio; value stocks are those with lower price-to-book ratios.

<sup>2.</sup>Profitability is a measure of current profitability, based on information from individual companies' income statements. Diversification does not eliminate the risk of market loss.



## Portfolios Can Be Structured to Pursue Dimensions



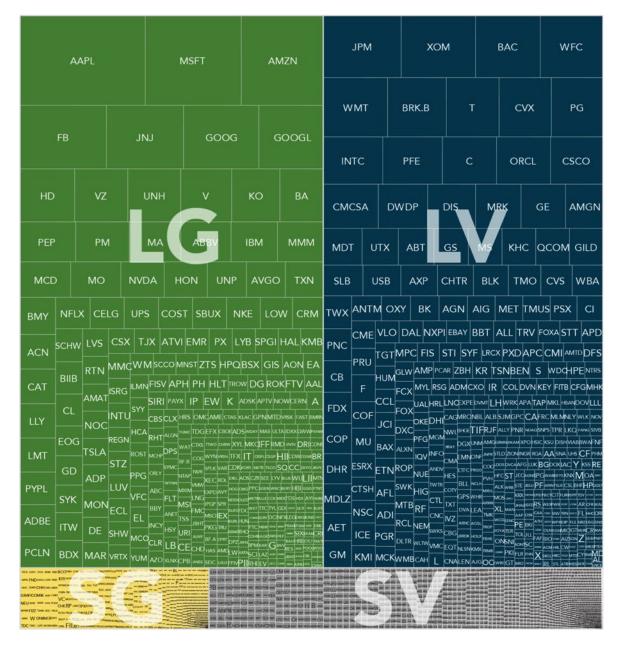
Investors can pursue higher expected returns through a low-cost, well-diversified portfolio that targets these dimensions.

<sup>1.</sup> Beta: A quantitative measure of the co-movement of a given stock, mutual fund, or portfolio with the overall market.

<sup>2.</sup> Price-to-Book Ratio: A company's capitalization divided by its book value. It compares the market's valuation of a company to the value of that company as indicated on its financial statements.

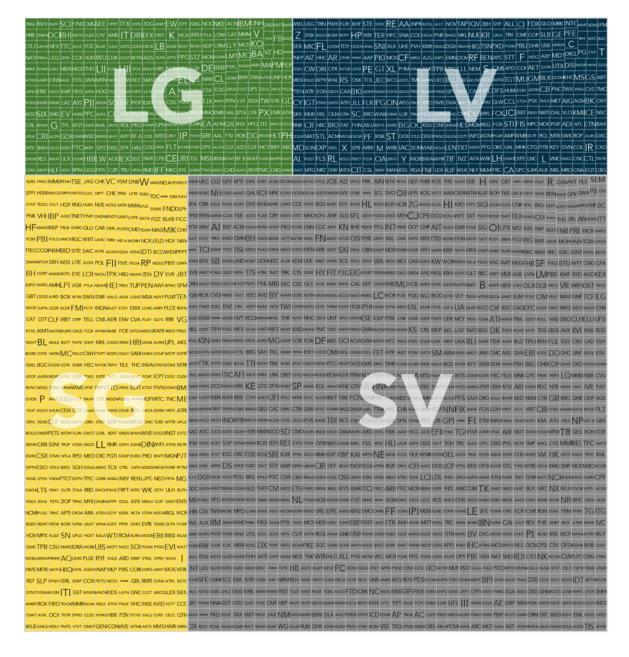
<sup>3.</sup> Profitability: A measure of a company's current profits. We define this as operating income before depreciation and amortization minus interest expense, scaled by book equity.





For Illustrative purposes only. Illustration includes constituents of the Russell 3000 Index as of December 31, 2017, on a market-cap weighted basis segmented into Large Value, Large Growth, Small Value, and Small Growth. Large cap is defined as the top 90% of market cap (small cap is the bottom 10%), while value is defined as the 50% of market cap of the lowest relative price stocks (growth is the 50% of market cap of the highest relative price stocks). For educational and informational purposes only and does not constitute a recommendation of any security. The determinations of Large Value, Large Growth, Small Value, and Small Growth do not represent any determinations Dimensional may make in assessing any of the securities shown. Source: Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes.





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