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Post-modern portfolio theory (or PMPT) is a continuation of traditional modern portfolio theory (MPT, which is the application of medium variance analysis or MVA). Both theories suggest how rational investors should use diversification to optimize their portfolios, and how a risky asset should be valued. The history of the term post-modern portfolio theory was created in 1991 by entrepreneurs Brian M. Rom and Kathleen Ferguson to differentiate portfolio software developed by their company, Investment Technologies, from those provided by traditional modern portfolio theory. He first appeared in literature in 1993 in an article by Roma and Ferguson in the journal Performance Measurement. It combines the theoretical studies of many authors and has expanded over several decades as scientists at universities in many countries test these theories to determine whether or not they have merit. A significant difference between PMPT and the current theory of the Markowitz and Sharpe (MPT) portfolio is that PMPT focuses on the profits that need to be earned on assets in the portfolio to meet some future payouts. This internal yield (IRR) is the link between assets and liabilities. PMPT measures risk and reward relative to this IRR, while MPT ignores this IRR and measures risk as a variance about average or average returns. The result is a vastly different portfolio design. Empirical research began in 1981 at the Institute for Retirement Research (PRI) at San Francisco State University. Dr. Hal Dassey and Dr. Frank Sortino tried to apply Peter Fishburne's 1977 theory to the Pension Fund's management. The result was an asset allocation model that PRI licensed to Brian Rom in 1988. Mr. Rom coined the term PMPT and began using it to optimize his company's portfolio and performance measurement software. These systems were built on PRI downside risk algorithms. Sortino and Stephen Satchell of the University of Cambridge co-authored the first book on PMPT. This was intended as the text of a workshop for graduates in portfolio management. More on the recent book Sortino was written for practitioners. The first publication in a major journal was co-authored by Sortino and Dr. Robert van der Meer, and then in Shell Oil Netherlands. The concept was popularized by many of Sortino's articles in the journal Pensions and Investments and Dr. Sortino's Blog: www.pmpt.me. Sortino argues that the main authors of the underlying theory are: Peter Fishburne of the University of Pennsylvania, who developed mathematical equations to calculate the risk of decline and provided that the Markowitz model was a subset of richer frameworks. Atchison and Brown of the University of Cambridge, who developed three lognormal distribution parameters, which was a more reliable model of return model than bell shape shape Mpt. Bradley Efron, of Stanford University, has developed a download procedure to better describe the nature of uncertainty in financial markets. William Sharpe of Stanford University developed a yield-based style analysis that allowed for a more accurate assessment of risk and profitability. Daniel Kahneman at Princeton and Amos Tversky at Stanford, who was a pioneer in behavioral finance, who disputes many of the MPT's findings. The Harry Markowitz Review laid the foundations of the MPT, the greatest contribution to which is the citation necessary creating a formal basis for risk/return for investment decisions; see the Markowitz model. By identifying investment risk in quantitative terms, Markowitz gave investors a mathematical approach to asset selection and portfolio management. But there are important limitations to the original wording of MPT. The two main limitations of MPT are its assumptions that: portfolio profitability is the correct indicator of investment risk, and the investment yield of all securities and portfolios can be adequately represented by joint elliptical distribution, such as normal distribution. In other words, the ACT is limited to risk and profit measures that do not always reflect the realities of investment markets. The assumption of normal distribution is one of the main practical limitations because it is symmetrical. The use of variance (or its square root, standard deviation) means that uncertainty about better-than-expected returns remains equally maintained as the uncertainty over profits is worse than expected. In addition, the use of normal distribution to model the investment yield model makes investment results with more upside-down than downward returns appear more risky than they really are. Reverse distortion is applied to distributions with the predominance of recession profits. The result is that the use of traditional MPT techniques to measure investment portfolio construction and valuation is often not an accurate model of investment reality. It has long been recognized that investors generally do not consider the income they need to earn to achieve their investment goals to be risky. They believe that risk is associated with poor results (i.e. yields below the required target) rather than good results (i.e. yields above target) and that losses carry more time than profit. This view was noted by researchers in finance, economics and psychology, including Sharp (1964). Under certain conditions, it can be shown that MVA leads to unsatisfactory forecasts of (investors) behavior. Markowitz suggests that a half-wagon-based model would be preferable; in the however, it bases its (MV) analysis on the average and standard deviation. Recent advances in portfolio and financial theory, theory, with increasing computing power, overcame these limitations. The resulting extended risk/return paradigm is known as post-modern portfolio theory, or PMPT. Thus, MPT becomes nothing more than a special (symmetrical) case of PMPT. Tools In 1987, the Pension Research Institute at San Francisco State University developed the practical mathematical algorithms PMPT that are used today. These methods provide a framework that recognizes investor preferences for an upside-down in relation to the volatility of the downturn. At the same time, a more reliable model for the cost return pattern, the distribution of the three-parameter lognormal, was introduced. Risk Disadvantage Main Article: Risk Reduction Risk (DR) is measured by targeted semi-loss (square root target semi-variance) and is called downward deviation. It is expressed in percentage and therefore allows the rantier in the same way as the standard deviation. An intuitive way to view the downside risk is to have an annual standard deviation of return below the target. Another is the square root of the probability-weighted square below the target return. Squaring below the target yield results in four times the penalty for failures. This is consistent with comments made about the conduct of individual decisions in accordance with $d = \int_{-\infty}^t (t - \tau)^2 f(\tau) d\tau$ 'displaystyle d^{\text{sqrt}} \int_{-\infty}^t (t - \tau)^2 f(\tau) d\tau, where d - deviation down (usually known in the financial community as a 'risk'). Note: By extension, d2 is a lack of variance. t - annual target yield, originally called the minimum acceptable yield, or MAR. r - Random variable representing the yield for the distribution of annual returns f(r), f(r) - the distribution of annual income, such as three lognormal distribution parameters For the reasons presented below, this continuous formula is preferable to a simpler discrete version that determines the standard deviation below the target periodic return taken from the return series. 1. Continuous form allows you to make all subsequent calculations using annual profits, which is a natural way for investors to specify their investment goals. A discrete form requires a monthly return to ensure that there are enough data points to make a meaningful calculation, which in turn requires converting the annual target into a monthly goal. This significantly affects the number of risks identified. For example, the goal of earning 1% in each month of one year leads to a greater risk than the seemingly equivalent goal of earning 12% in one year. 2. Second reason strongly preferring the continuous form of discrete form was proposed by Sortino and Forsey (1996): Before we make an investment, we do not know what the result will be Once the investment is made and we want to measure its performance, all we know is that was not what it might have been. To cope with this uncertainty, we assume that a reasonable estimate of the range of possible income, as well as the probability associated with the estimate of these revenues ... Statistically, a form of uncertainty is called probability distribution. In other words, looking only at discrete monthly or annual values doesn't tell the whole story. Using observed points to create distribution is one of the main elements of a normal performance measurement. For example, monthly income is used to calculate the average and standard deviation of the fund. Using these values and properties of normal distribution, we can make statements such as the probability of losing money (even if there was no actual negative return) or a range within which two-thirds of all returns lie (even if the specific income identifying this range did not necessarily occur). Our ability to make these statements comes from the process of adopting a continuous form of normal distribution and some of its well-known properties. In PMPT follows a similar process: Watch the monthly returns, fit the distribution, which allows asymmetry to observations, annualize monthly returns, to make sure distribution form characteristics are saved, Apply integral calculus to the distribution result to calculate the reliable statistics. Sortino's Sortino ratio, developed by Rom, An Investment Technology, was the first new element in the PMPT column. It was designed to replace the Sharpe MPT ratio as a profit-adjusted measure. It is defined as: $\frac{r - t}{d}$ 'displaystyle \frac{r - t}{d} where there are - annual return, t - target yield, d - risk of decline. The following table shows that this ratio clearly exceeds the traditional Sharpe ratio as a means of ranking investment results. The table shows risk-adjusted odds for several major indices using Sortino and Sharp coefficients. The data cover the five years 1992-1996 and are based on monthly total profits. The Sortino coefficient is calculated against the target of 9.0%. Sortino Sharp Index Ratio 90-Day T-Bill -1.00 0.00 Lehman Aggregate -0.29 0.63 MSCI EAFE -0.05 0.30 Russell 2000 0.55 0 As an example of different findings, which can be done with these two ratios, note how Lehman Aggregate and MSCI EAFE compare - Lehman takes a higher place using the Sharp coefficient, while EAFE takes a higher place using the Sortino coefficient. In many cases, managers' or indices' ratings will vary depending on the risk-adjusted measure used. These patterns will change again For example, when t is close to an unsalted rate, the Sortino coefficient for the T-Bill will be higher than for the S-P 500, while the Sharp coefficient remains unchanged. March Researchers from the Investment Corporation of NSW and the University of Technology NSW have shown that for uneven profit distribution, sortino's ratio is superior to Sharpe's ratio as a portfolio risk indicator. Volatility volatility is the second portfolio analysis statistic introduced by Rom and Ferguson under the PMPT. It measures the ratio of the distribution share from the total variance from profit above average, to a percentage of the overall deviation of the distribution from the profit below average. Thus, if the distribution is symmetrical (as in the usual case as it is assumed in MPT), it has a volatility skew of 1.00. Values of more than 1.00 indicate positive unevenness; values of less than 1.00 indicate negative unevenness. While closely correlated with the traditional statistical skew measure (e.g. the third point of spread), the authors of PMPT argue that their indicator of skewed volatility has the advantage that is intuitively more understandable for the non-statistics, who are the main practical users of these tools. The importance of the skew lies in the fact that the more abnormal (i.e. distorted) a series of returns, the more its true risk will be distorted by traditional MPT measures such as the Sharpe coefficient. Thus, with the recent emergence of hedging strategies and derivatives that are asymmetrical in design, IPT measures are essentially useless, while THEPTS can obtain much more genuine information contained in the declaration being developed. Many of the general market indices and the yields of mutual funds and bonds alone cannot always be considered to be accurately represented by the usual distribution. Volatility of the index up (%) Volatility Skewed Lehman Aggregate 32.35 67.65 0.48 Russell 2000 37.19 62.81 0.59 GPC 500 38.63 61.11 1.37 0.63 90-day T-Bill 48.26 51.74 0.93 MSCI EAFE 54.67 45.33 1.21 Data: Monthly yield, January, January, 1991 to December, 1996. Cm. also Sketch Finance - Post-Modern Theory of The Endnotes Portfolio - The earliest quote of the term Post-modern portfolio theory in literature appears in an article post-modern portfolio theory comes the age of Brian M. Rom and Kathleen W. Ferguson, published in the journal Investing, Winter, 1993. Generalized versions of this article were subsequently published in a number of other magazines and websites. In MPT terms variance, variability, volatility and standard deviation are used interchangeably to represent investment risk. See Sharp (1964). Markowitz acknowledged these limitations and suggested the risk of reduction (which he called semi-variance) as the preferred measure of investment risk. However, the complex calculations and limited computational resources available in the made it impossible to implement the risk of recession. That's why he's he, and stayed with the variance. The three parameters of lognormal distribution is the only PDF that has so far been developed for reliable solutions to calculate the risk of recession allowing both positive and negative distortions in the distribution of profits. This is a more reliable measure of portfolio profitability than the usual distribution, which requires that the tails of the distribution be identical. Chaudhry, Ashraf; Helen Johnson (March 2008). Efficiency of the Sortino coefficient and other performance benchmarks in uneven profit distribution. Australian Management Journal. 32 (3): 485. doi:10.1177/031289620803200306. References For a comprehensive survey of early literature, see R. Libby and P. C. Fishburne (1977). Bawa, V.S. (1982). Stochastic dominance: bibliography of research. 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