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Market Portfolio

By [JAMES CHEN](#) | Updated Oct 8, 2019

What is a Market Portfolio?

A market portfolio is a theoretical bundle of investments that includes every type of asset available in the investment universe, with each asset weighted in proportion to its total presence in the market. The [expected return](#) of a market portfolio is identical to the expected return of the market as a whole.

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The Basics of Market Portfolio

A market portfolio, by nature of being completely diversified, is subject only to [systematic risk](#), or risk that affects the market as a whole, and not to [unsystematic risk](#), which is the risk inherent to a particular asset class.





billion. The market portfolio consists of each of these companies, which are weighed in the portfolio as follows:

Company A portfolio weight = \$2 billion / \$20 billion = 10%

Company B portfolio weight = \$5 billion / \$20 billion = 25%

Company C portfolio weight = \$13 billion / \$20 billion = 65%

KEY TAKEAWAYS

- A market portfolio is a theoretical, diversified group of every type of investment in the world, with each asset weighted in proportion to its total presence in the market.
- Market portfolios are a key part of the capital asset pricing model, a commonly used foundation for choosing which investments to add to a diversified portfolio.
- Roll's Critique is an economic theory that suggests that it is impossible to create a truly diversified market portfolio—and that the concept is a purely theoretical one.

The Market Portfolio in the Capital Asset Pricing Model

The market portfolio is an essential component of the [capital asset pricing model \(CAPM\)](#).

Widely used for pricing assets, especially equities, the CAPM shows what an asset's expected

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Consumption CAPM formula. Investopedia

Where:

R = expected return

$R(f)$ = the risk-free rate

$R(m)$ = the expected return of the market portfolio

β_c = the [beta](#) of the asset in question versus the market portfolio

For example, if the risk-free rate is 3%, the expected return of the market portfolio is 10%, and the beta of the asset with respect to the market portfolio is 1.2, the expected return of the asset is:

$$\text{Expected return} = 3\% + 1.2 \times (10\% - 3\%) = 3\% + 8.4\% = 11.4\%$$

Limitations of a Market Portfolio

Economist Richard Roll suggested in a 1977 paper that it is impossible to create a truly

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Real World Example of a Market Portfolio

In a 2017 study, "[Historical Returns of the Market Portfolio](#)," the economists Ronald Q. Doeswijk, Trevin Lam, and Laurens Swinkels attempted to document how a global multi-asset portfolio has performed over the period 1960 to 2017. They found that real compounded returns varied from 2.87% to 4.93%, depending on the currency used. In U.S. dollars, the return was 4.45%.

Related Terms

Capital Asset Pricing Model (CAPM)

The Capital Asset Pricing Model is a model that describes the relationship between risk and expected return. [more](#)

How the Consumption Capital Asset Pricing Model Works

The consumption capital asset pricing model is an extension of the capital asset pricing model that focuses on a consumption beta instead of a market beta. [more](#)

Excess Returns

Excess returns are returns achieved above and beyond the return of a proxy. Excess returns will depend on a designated investment return comparison for analysis. [more](#)

Country Risk Premium (CRP) Definition

Country Risk Premium (CRP) is the additional return or premium demanded by investors to compensate them for the higher risk of investing overseas. [more](#)

Understanding Beta and How to Calculate It

Beta is a measure of the volatility, or systematic risk, of a security or a portfolio in comparison to the market as a whole. Beta is used in the capital asset pricing model (CAPM). [more](#)

Capital Market Line (CML) Definition

The capital market line (CML) represents portfolios that optimally combine risk and return. [more](#)

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CAPM Model: Advantages and Disadvantages

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