



Portfolio Management Project

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This presentation includes a Preliminary analysis of the variables, the forecasting models, and the performance of these



Index presentation



Approach



Results and performance



Index presentation

Index presentation

MSCI Europe



Large and mid-cap representation across **15 Developed Markets (DM)** countries in Europe

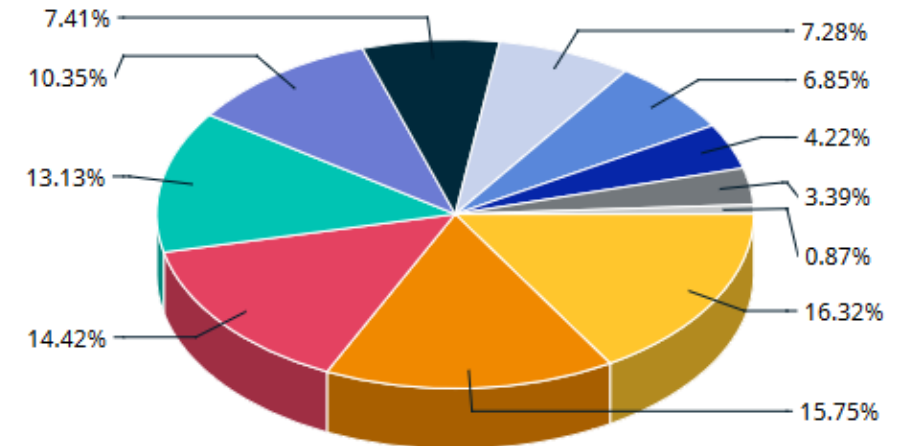


With **427 constituents**, the index covers approximately **85%** of the free float-adjusted market capitalization



Market Cap: **9,272,080.81 USD Millions**

Sector Weights



Financials 16.32% Health Care 15.75% Industrials 14.42%
Consumer Staples 13.13% Consumer Discretionary 10.35% Materials 7.41%
Information Technology 7.28% Energy 6.85% Utilities 4.22%
Communication Services 3.39% Real Estate 0.87%



Approach

Strategy

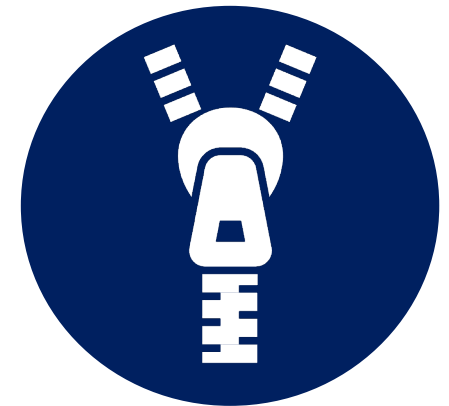
Targeted Audience



ESG criteria



MSCI Europe adjusted



Characteristics

18-30 years old

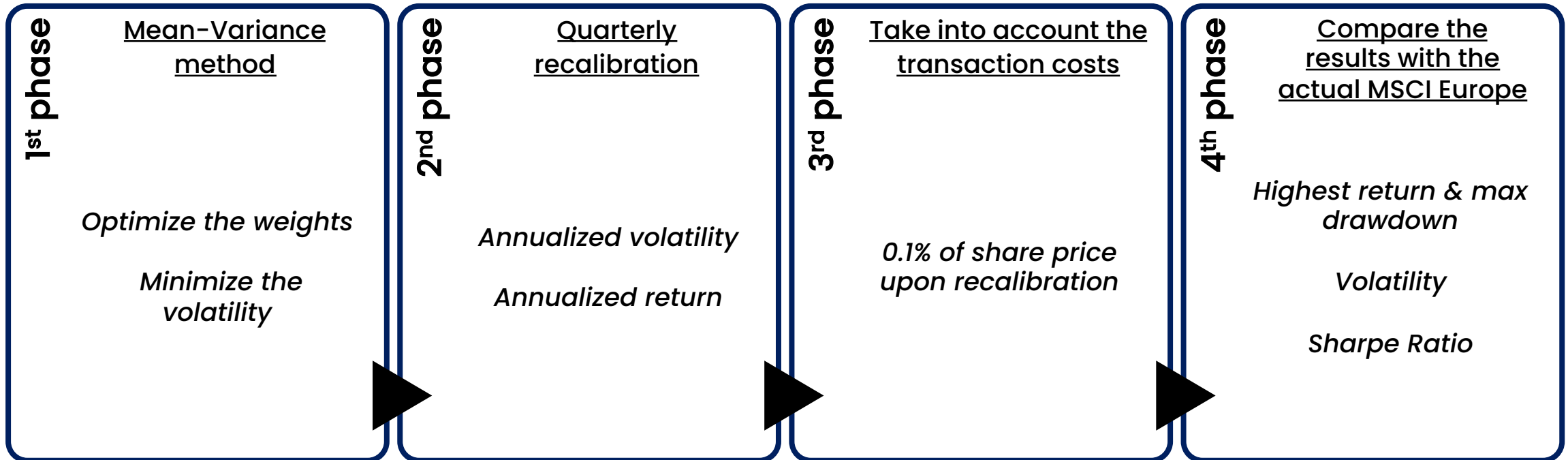
Score

Governmental
Environment
Social & Total

MSCI Europe

As close as possible

Methodology



ESG criteria

Assets selection

ESG total score, social and governance score inferior to the respective median

62 assets



No assets from Energy, Materials, or Public Services sectors because of their high environmental score

53 assets



Environmental score inferior to the quantile 0.25

32 assets



Results and performance

Results and performance

The mean-variance method with transaction costs

MSCI Europe

70%

Proportion of positive returns

0.62

The Sharpe ratio

Portfolio

70%

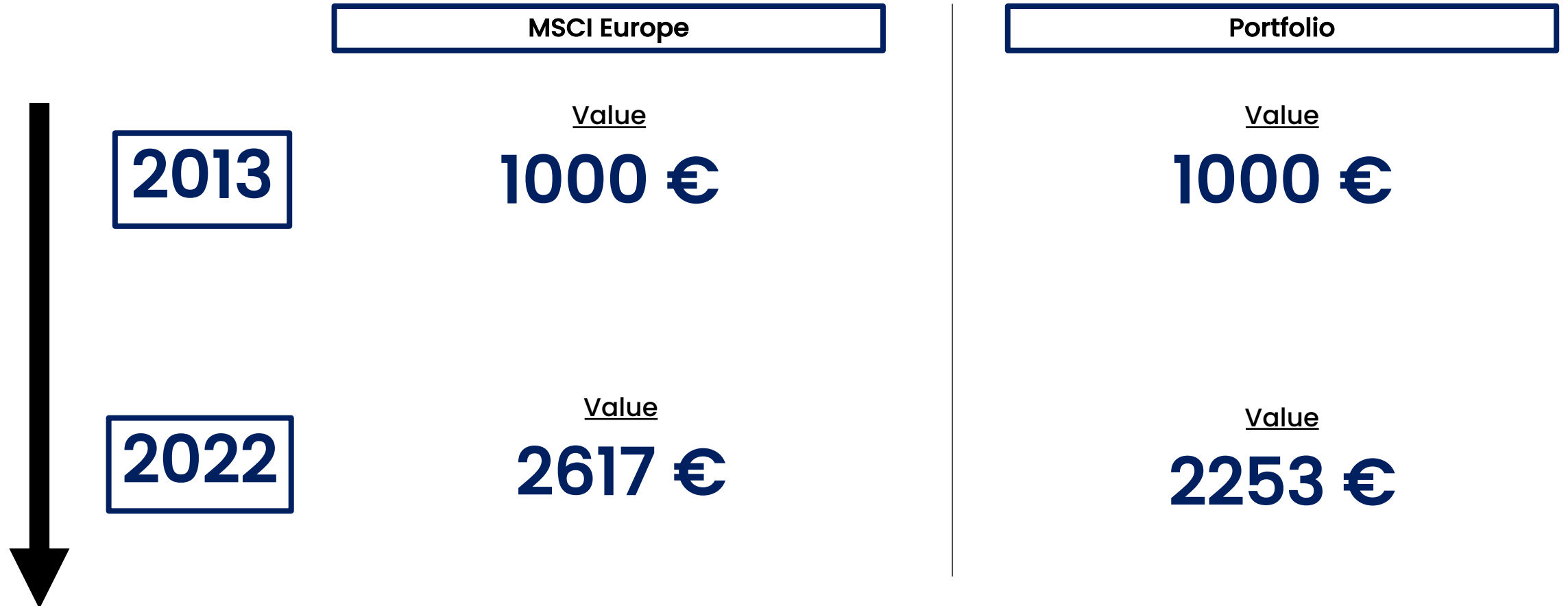
Proportion of positive returns

0.45

The Sharpe ratio

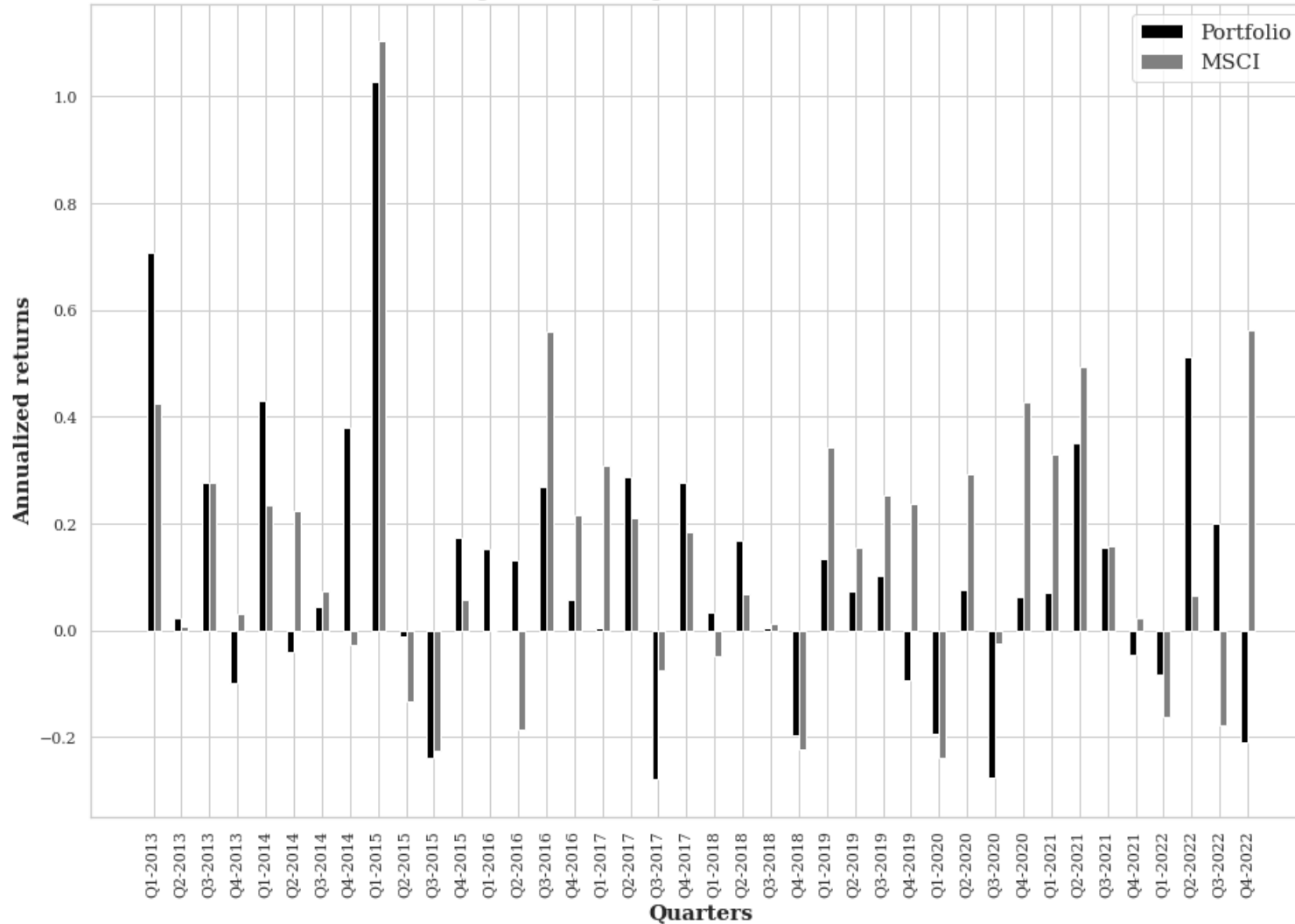
Results and performance

The mean-variance method with transaction costs



Results and performance

Comparison of the portfolio and MSCI returns



Annualized return

MSCI Europe

11.72%

Portfolio

8.27%

Highest return Q1 2015

MSCI Europe

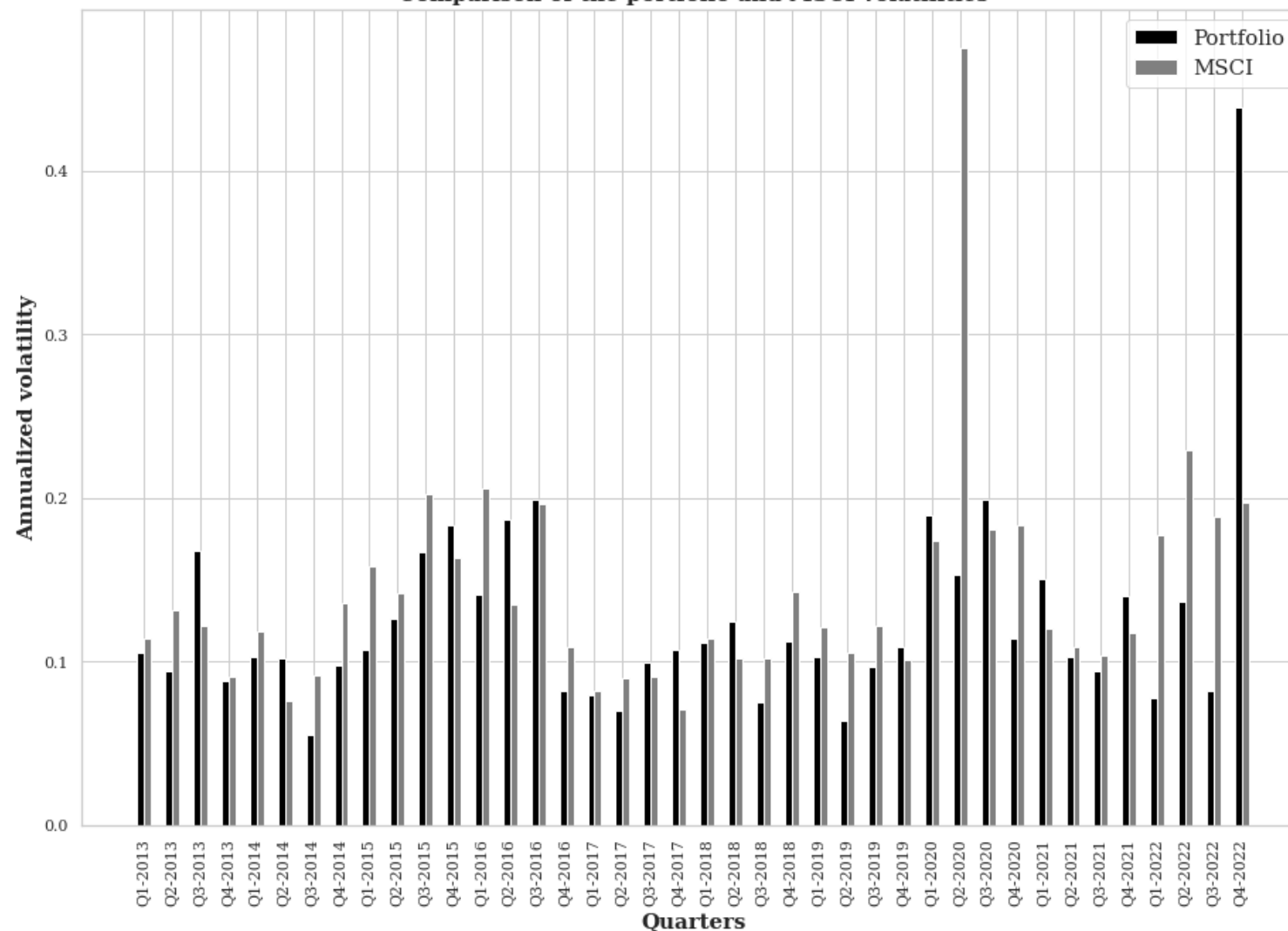
110.42%

Portfolio

102.57%

Results and performance

Comparison of the portfolio and MSCI volatilities



Annualized volatility

MSCI Europe

15.63%

Portfolio

14.04%

Highest drawdown

MSCI Europe Q3 2015

-23.79%

Portfolio Q1 2021

-27.91%