## (平 Fairvalue - Magazin fur Anlagestrategie

Report Parameters

| Start Date | $01 / 01 / 1970$ |
| :--- | :--- |
| End Date | $06 / 30 / 2019$ |
| Initial Balance | $\$ 10,000$ |
| Periodic Adjustment | None |
| Rebalancing | No rebalancing |
| Reinvest Dividends | Yes |

## (₹) Fairvalue - Magazin fur Anlagestrategie

## MSCI World NR EUR

| Ticker | Name | Allocation |
| :---: | :---: | :---: |
| MSCIW1970 | MSCI World NR EUR 1970 | $100.00 \%$ |

## Portfolio Performance

|  | Metric |
| :--- | :---: |
| Start Balance | MSCI World NR EUR |
| End Balance | $\$ 10,000$ |
| End Balance (inflation adjusted) | $\$ 297,085$ |
| CAGR | $\$ 43,726$ |
| CAGR (inflation adjusted) | $7.09 \%$ |
| Stdev | $3.03 \%$ |
| Best Year | $15.23 \%$ |
| Worst Year | $46.36 \%$ |
| Max. Drawdown | $-37.64 \%$ |
| Sharpe Ratio | $-55.97 \%$ |
| Sortino Ratio | 0.23 |
| US Stock Market Correlation |  |

## ( F Fairvalue - Magazin fur Anlagestrategie

Portfolio Growth


## (F) Fairvalue - Magazin fur Anlagestrategie

Annual Returns


## (平Fairvalue - Magazin fur Anlagestrategie

Portfolio Backtest

## Risk and Return Metrics



## ※ Fairvalue - Magazin fur Anlagestrategie

Portfolio Backtest

MSCI World NR EUR Returns

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | Inflation | Balance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | -5.54\% | 3.12\% | 0.31\% | -9.34\% | -6.31\% | -2.46\% | 6.20\% | 3.30\% | 3.23\% | -1.48\% | 2.24\% | 4.96\% | -3.09\% | 5.57\% | \$9,691 |
| 1971 | 4.60\% | 1.05\% | 4.39\% | 3.27\% | -5.20\% | -0.60\% | -2.63\% | 0.26\% | -3.25\% | -3.22\% | -0.00\% | 7.81\% | 5.82\% | 3.27\% | \$10,255 |
| 1972 | 1.65\% | 3.12\% | 0.93\% | 1.53\% | 1.76\% | -2.84\% | 2.22\% | 3.34\% | -1.14\% | 0.89\% | 4.95\% | 2.04\% | 19.84\% | 3.41\% | \$12,290 |
| 1973 | -1.17\% | -9.28\% | -0.14\% | -5.01\% | -4.06\% | -10.71\% | -0.60\% | 0.34\% | 0.91\% | 2.20\% | -6.74\% | 2.39\% | -28.44\% | 8.71\% | \$8,795 |
| 1974 | 3.11\% | -2.02\% | -7.96\% | -4.51\% | -1.12\% | -1.75\% | -4.82\% | -6.96\% | -9.75\% | 6.60\% | -5.52\% | -4.39\% | -33.62\% | 12.34\% | \$5,838 |
| 1975 | 11.44\% | 6.24\% | 3.27\% | 5.73\% | 0.98\% | 1.65\% | 3.27\% | -1.20\% | -1.28\% | 2.55\% | 5.77\% | -0.20\% | 44.66\% | 6.94\% | \$8,446 |
| 1976 | 7.90\% | -2.02\% | 0.08\% | -0.74\% | 0.54\% | 2.40\% | -2.03\% | -1.13\% | -2.44\% | -4.96\% | -0.43\% | 5.58\% | 2.09\% | 4.86\% | \$8,623 |
| 1977 | -0.92\% | -1.43\% | -0.96\% | -0.16\% | -1.50\% | 2.93\% | -3.41\% | 1.86\% | 0.87\% | -4.23\% | 0.03\% | -3.49\% | -10.15\% | 6.70\% | \$7,747 |
| 1978 | -2.92\% | -4.16\% | 3.80\% | 6.87\% | 2.70\% | -0.07\% | 5.45\% | -0.26\% | -1.49\% | -12.60\% | 7.40\% | -2.30\% | 0.65\% | 9.02\% | \$7,797 |
| 1979 | 4.89\% | -2.53\% | 5.17\% | 1.67\% | -1.43\% | -0.35\% | 0.22\% | 3.39\% | -2.49\% | -4.05\% | -1.22\% | 2.10\% | 4.98\% | 13.29\% | \$8,186 |
| 1980 | 7.03\% | 1.99\% | -2.09\% | -1.35\% | 4.01\% | 3.10\% | 4.70\% | 2.31\% | 4.14\% | 8.41\% | 5.07\% | 0.06\% | 43.73\% | 12.52\% | \$11,766 |
| 1981 | 4.22\% | 1.01\% | 2.18\% | 5.44\% | 2.76\% | 2.70\% | 1.26\% | -2.52\% | -12.10\% | -0.34\% | 5.36\% | -0.45\% | 8.56\% | 8.92\% | \$12,772 |
| 1982 | 1.41\% | -3.13\% | -1.58\% | 1.22\% | -1.74\% | -0.35\% | -1.10\% | 9.19\% | 1.58\% | 8.29\% | 1.91\% | 0.34\% | 16.38\% | 3.83\% | \$14,864 |
| 1983 | 5.31\% | 1.14\% | 3.12\% | 8.58\% | 1.62\% | 3.70\% | 2.28\% | 2.86\% | -0.67\% | -1.23\% | 4.96\% | 2.45\% | 39.49\% | 3.79\% | \$20,733 |
| 1984 | 4.11\% | -9.35\% | 4.45\% | 4.61\% | -7.00\% | 2.47\% | 0.34\% | 10.02\% | 5.02\% | 0.78\% | 1.48\% | 3.83\% | 20.95\% | 3.95\% | \$25,078 |
| 1985 | 6.18\% | 5.29\% | -4.01\% | -0.30\% | 5.03\% | -0.14\% | -5.98\% | 0.72\% | -3.54\% | 2.91\% | 1.64\% | 2.45\% | 9.86\% | 3.80\% | \$27,551 |
| 1986 | -1.47\% | 1.09\% | 15.99\% | -4.78\% | 6.64\% | -1.59\% | -4.04\% | 5.65\% | -4.31\% | 0.24\% | -0.51\% | 0.21\% | 11.95\% | 1.10\% | \$30,845 |
| 1987 | 5.82\% | 2.71\% | 4.80\% | 5.22\% | 1.60\% | 0.17\% | 3.76\% | 3.27\% | -0.05\% | -22.16\% | -7.68\% | 0.72\% | -5.45\% | 4.43\% | \$29,163 |
| 1988 | 8.65\% | 6.53\% | 1.19\% | 2.18\% | 1.02\% | 5.30\% | 4.57\% | -4.99\% | 4.21\% | 0.61\% | 1.44\% | 2.90\% | 38.43\% | 4.42\% | \$40,369 |
| 1989 | 9.27\% | -3.39\% | 3.37\% | 1.72\% | 3.35\% | -3.43\% | 6.49\% | 2.37\% | -1.71\% | -5.13\% | 1.08\% | -2.33\% | 11.18\% | 4.65\% | \$44,881 |
| 1990 | -5.08\% | -3.68\% | -5.91\% | -2.56\% | 11.25\% | -2.47\% | -3.42\% | -10.30\% | -11.14\% | 6.08\% | -2.86\% | 1.92\% | -26.47\% | 6.11\% | \$33,000 |
| 1991 | 2.67\% | 11.83\% | 8.20\% | 2.99\% | 1.91\% | -1.64\% | 0.82\% | -0.29\% | -2.27\% | 2.41\% | -7.04\% | 0.06\% | 20.02\% | 3.06\% | \$39,607 |
| 1992 | 4.11\% | -0.23\% | -4.28\% | 2.01\% | 0.93\% | -8.25\% | -3.00\% | -2.69\% | -0.42\% | 6.21\% | 5.48\% | 2.04\% | 0.91\% | 2.90\% | \$39,969 |
| 1993 | -0.22\% | 4.60\% | 3.64\% | 2.89\% | 2.57\% | 5.29\% | 5.25\% | 0.75\% | -4.68\% | 5.46\% | -3.75\% | 6.56\% | 31.39\% | 2.75\% | \$52,516 |
| 1994 | 7.05\% | -3.44\% | -6.43\% | 2.30\% | -0.58\% | -3.46\% | 1.71\% | 2.31\% | -4.30\% | -0.08\% | -0.38\% | -0.36\% | -6.21\% | 2.67\% | \$49,255 |
| 1995 | -3.73\% | -1.98\% | -2.06\% | 4.50\% | 3.08\% | -2.10\% | 4.72\% | 4.03\% | -0.36\% | -2.61\% | 6.17\% | 1.91\% | 11.48\% | 2.54\% | \$54,907 |
| 1996 | 5.81\% | -0.64\% | 2.10\% | 6.30\% | -0.33\% | 0.14\% | -6.68\% | 1.47\% | 7.23\% | -0.12\% | 7.26\% | -1.36\% | 22.18\% | 3.32\% | \$67,088 |
| 1997 | 7.53\% | 4.25\% | -3.15\% | 7.17\% | 4.55\% | 7.25\% | 10.24\% | -8.56\% | 3.42\% | -7.70\% | 4.28\% | 3.16\% | 35.06\% | 1.70\% | \$90,612 |
| 1998 | 4.48\% | 5.97\% | 6.19\% | -2.03\% | -1.91\% | 3.63\% | -1.64\% | -14.09\% | -3.57\% | 8.03\% | 8.14\% | 3.31\% | 15.18\% | 1.61\% | \$104,366 |
| 1999 | 5.65\% | 0.69\% | 5.90\% | 6.05\% | -2.27\% | 5.83\% | -3.95\% | 1.13\% | -1.79\% | 6.58\% | 7.31\% | 8.57\% | 46.36\% | 2.68\% | \$152,752 |
| 2000 | -3.43\% | 1.88\% | 7.55\% | 0.56\% | -4.24\% | -0.00\% | 0.52\% | 7.60\% | -4.62\% | 2.35\% | -8.55\% | -5.79\% | -7.31\% | 3.39\% | \$141,591 |
| 2001 | 2.90\% | -7.43\% | -2.82\% | 7.06\% | 3.23\% | -3.03\% | -4.54\% | -8.31\% | -9.06\% | 3.04\% | 6.53\% | 1.18\% | -12.30\% | 1.55\% | \$124,179 |
| 2002 | 0.28\% | -1.35\% | 3.52\% | -6.48\% | -3.39\% | -11.16\% | -7.77\% | 0.14\% | -11.69\% | 7.15\% | 4.91\% | -9.81\% | -32.02\% | 2.38\% | \$84,411 |
| 08/20/2019 |  |  |  |  |  |  | www. | airvalue-maga |  |  |  |  |  |  | 6 of 11 |

## (F) Fairvalue - Magazin fur Anlagestrategie

## Portfolio Backtest

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | Inflation | Balance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2003 | -5.22\% | -2.14\% | -1.55\% | 6.44\% | 0.29\% | 4.18\% | 4.09\% | 4.72\% | -5.16\% | 6.11\% | -1.55\% | 0.99\% | 10.74\% | 1.88\% | \$93,477 |
| 2004 | 3.16\% | 1.66\% | 0.44\% | 0.42\% | -0.94\% | 2.43\% | -2.24\% | -0.50\% | -0.30\% | 0.03\% | 0.74\% | 1.51\% | 6.46\% | 3.26\% | \$99,514 |
| 2005 | 1.93\% | 1.32\% | 0.15\% | -1.52\% | 6.41\% | 2.87\% | 3.15\% | -0.49\% | 4.66\% | -1.78\% | 4.98\% | 2.16\% | 26.17\% | 3.42\% | \$125,552 |
| 2006 | 1.48\% | 1.70\% | 0.69\% | -1.01\% | -5.28\% | 0.42\% | 0.82\% | 2.28\% | 2.25\% | 2.89\% | -1.35\% | 2.57\% | 7.40\% | 2.54\% | \$134,843 |
| 2007 | 2.68\% | -2.14\% | 1.05\% | 1.84\% | 4.26\% | -1.13\% | -3.52\% | 0.33\% | 0.42\% | 1.31\% | -5.47\% | -0.90\% | -1.66\% | 4.08\% | \$132,606 |
| 2008 | -8.80\% | -3.03\% | -5.11\% | 7.13\% | 1.71\% | -9.23\% | -1.49\% | 4.49\% | -7.65\% | -10.23\% | -6.54\% | -5.79\% | -37.64\% | 0.09\% | \$82,691 |
| 2009 | -1.03\% | -9.43\% | 2.87\% | 11.44\% | 2.10\% | 0.46\% | 7.31\% | 2.87\% | 2.09\% | -2.69\% | 2.29\% | 6.52\% | 25.94\% | 2.72\% | \$104,140 |
| 2010 | -1.04\% | 3.29\% | 7.10\% | 1.78\% | -2.02\% | -3.26\% | 1.64\% | -1.32\% | 1.78\% | 1.88\% | 4.47\% | 4.17\% | 19.53\% | 1.50\% | \$124,476 |
| 2011 | 0.06\% | 2.74\% | -3.63\% | -0.28\% | 1.06\% | -2.41\% | -0.94\% | -7.23\% | -1.96\% | 6.14\% | 1.08\% | 3.64\% | -2.38\% | 2.96\% | \$121,511 |
| 2012 | 4.14\% | 2.64\% | 1.74\% | -0.53\% | -2.20\% | 2.40\% | 4.37\% | 0.18\% | 0.67\% | -1.39\% | 0.91\% | 0.51\% | 14.05\% | 1.74\% | \$138,579 |
| 2013 | 2.07\% | 4.00\% | 4.20\% | 0.47\% | 1.77\% | -2.75\% | 3.04\% | -1.44\% | 2.28\% | 3.47\% | 1.62\% | 0.90\% | 21.20\% | 1.50\% | \$167,961 |
| 2014 | -1.60\% | 2.53\% | 0.36\% | 0.42\% | 3.61\% | 1.45\% | 0.70\% | 3.82\% | 1.44\% | 1.48\% | 2.52\% | 1.36\% | 19.50\% | 0.76\% | \$200,708 |
| 2015 | 5.29\% | 6.50\% | 2.80\% | -1.91\% | 2.56\% | -3.89\% | 2.66\% | -7.92\% | -3.32\% | 9.06\% | 4.07\% | -4.48\% | 10.42\% | 0.73\% | \$221,625 |
| 2016 | -5.61\% | -1.16\% | 1.82\% | 1.07\% | 3.46\% | -0.92\% | 3.54\% | 0.49\% | -0.37\% | 0.53\% | 4.82\% | 2.98\% | 10.73\% | 2.07\% | \$245,397 |
| 2017 | -0.05\% | 4.53\% | 0.41\% | -0.33\% | -1.11\% | -1.03\% | -0.95\% | -0.69\% | 2.82\% | 3.40\% | -0.18\% | 0.64\% | 7.51\% | 2.11\% | \$263,834 |
| 2018 | 1.48\% | -2.09\% | -2.99\% | 2.96\% | 4.15\% | -0.07\% | 2.90\% | 1.81\% | 0.73\% | -5.02\% | 1.21\% | -8.48\% | -4.11\% | 1.91\% | \$252,997 |
| 2019 | 7.38\% | 3.80\% | 2.74\% | 3.74\% | -5.23\% | 4.30\% |  |  |  |  |  |  | 17.43\% | 2.12\% | \$297,085 |

## ※Fairvalue - Magazin fur Anlagestrategie

Portfolio Backtest

## Portfolio Returns Based Style Analysis

| Style Category | MSCI World NR EUR |
| :---: | :---: |
| Large-cap Value | 17.06\% |
| Large-cap Growth | 36.40\% |
| Mid-cap Value | 3.06\% |
| Mid-cap Growth | 5.05\% |
| Small-cap Value | 0.00\% |
| Small-cap Growth | 11.28\% |
| Global ex-US Developed Markets | 0.00\% |
| Emerging Markets | 0.00\% |
| Corporate Bonds | 0.00\% |
| Long-Term Treasuries | 0.00\% |
| Intermediate-Term Treasuries | 0.00\% |
| Short-Term Treasuries | 27.15\% |
| R Squared | 65.96\% |
| Style analysis is based on monthly returns from Apr 2005 to Jun 2019 based on asset class exposures, it does not identify the actual portfolio | analysis aims to explain the portfolio returns |

## ( $⿻$ Fairvalue - Magazin fur Anlagestrategie

Drawdowns


## (F) Fairvalue - Magazin fur Anlagestrategie

## Portfolio Backtest

## Drawdowns for Historical Market Stress Periods



## Rolling Returns

| Roll Period |  | Average |  | High |  | Low |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 year |  |  | 8.77\% |  | 46.36\% |  | -37.64\% |
|  | 3 years |  | 7.79\% |  | 31.56\% |  | -17.94\% |
|  | 5 years |  | 7.63\% |  | 25.40\% |  | -10.20\% |
|  | 7 years |  | 7.79\% |  | 21.11\% |  | -5.64\% |
|  | 10 years |  | 7.90\% |  | 18.55\% |  | -3.76\% |
|  | 15 years |  | 8.12\% |  | 14.56\% |  | 1.84\% |

Result statistics are based on annualized rolling returns over full calendar year periods

## Fairvalue - Magazin fur Anlagestrategie

## MSCI World NR EUR Rolling Returns



## Disclosures:

 Umsetzung. Unsere Beitrage stutzen sich auf eigene quantitative Analysen und andere aktuelle Erkenntnisse der Finanzmarkfforschung. Grunder und Herausgeber von Fairvalue ist der Finanzjournalist und Sachbuchautor Markus Neumann. Er war zuvor u. a. fur die Stiftung Warentest / Finanztest und das Verbraucherportal Finanztip tatig

