

EQUITY RISK SCIENCES, INC

AN INTRODUCTION TO ERS'S PROPRIETARY DATA ANALYTICS TECHNOLOGY

January 14, 2022

ERS'S PREDICTIVE ANALYTICS -VS- S&P 500 INDEX



- **Objective:** Employ a longitudinal study consisting of 331 5-year periods over 32 years to determine the performance results of using **ERS's Predictive Analytics** technology compared to the performance of the S&P 500 index in the same periods.
- Study Period: 331 5-year periods: 12/1988 through 6/2016, monthly
 - Sample: 1,000* largest companies by market cap in each period
 - Minimum market cap of \$100 million

Study Method:

- ERS assigned each company a **PRI Rating™** and an **ERI Rating™** at the beginning of each period.
- Grouped companies into portfolios based on their **PRI Ratings™** and **ERI Ratings™** in each period
- Calculated each portfolio's average return based on each company's 5-year rate of return

*If fewer than 1,000 companies met this criteria, all were used

Conclusions:

ERS's proprietary predictive analytics technology produced far greater profitability than the S&P 500 Index, reduced volatility and reduced losses in flat, rising *and* falling markets.

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ERS'S COMPREHENSIVE 32-YEAR BENCHMARK PERFORMANCE STUDY RESULTS

Below are the results of employing ERS's predictive analytics technology over the 331 5-year periods from 12/31/1988 to 6/30/2021. *We know of no other technology that has demonstrated such positive performance results.*

In Falling Periods:

The S&P 500 fell in 83 out of 331 5-year periods; its average decline was -11.7%, while ERS's portfolios fell just 6 times, producing an average gain of 42.4%.

In Rising Periods:

The S&P 500 rose in 248 out of 331 5-year periods; its average gain was 76.4%, while ERS's portfolios produced an average gain of 119.1%.

In All 331 5-Year Periods:

The S&P 500's average gain was 54.3%, while ERS's portfolios produced an average gain of 99.8%.

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ANALYSIS OF ERS'S PORTFOLIOS USING ERI RATING™

| # Periods | Average 5Y Performance | Average S&P 500 |
|-----------|---------------------------|-----------------------------|
| 165 | 144% | 77% |
| 166 | 56% | 32% |
| | 165 | # PeriodsPerformance165144% |

| Portfolio ERI Rating™ | # Periods | Average 5Y Performance | Average S&P 500 |
|--------------------------|-----------|---------------------------|-----------------|
| 5.9 to 9.6 | 110 | 161% | 84% |
| 9.6 to 12.3 | 110 | 82% | 42% |
| 12.3 to 20.1 | 111 | 56% | 37% |

| Portfolio ERI Rating™ | # Periods | Average 5Y Performance | Average S&P 500 |
|--------------------------|-----------|---------------------------|-----------------|
| 5.9 to 9 | 83 | 162% | 87% |
| 9 to 10.9 | 82 | 125% | 67% |
| 10.9 to 13.1 | 83 | 54% | 24% |
| 13.1 to 20.1 | 83 | 59% | 39% |

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IN 331 5-YEAR TESTS, OVER 32 YEARS IN RISING, FALLING & FLAT MARKETS ERS'S TECHNOLOGY AVERAGE ANNUAL PROFITS: 99.8% VS 54.3% ON THE S&P INDEX

| Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI |
|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|
| 12/88 | 68% | 172% | 9.0 | 4/91 | 74% | 116% | 10.1 | 8/93 | 107% | 133% | 9.5 | 12/95 | 114% | 127% | 7.2 |
| 1/89 | 62% | 165% | 9.6 | 5/91 | 72% | 124% | 10.3 | 9/93 | 122% | 137% | 9.5 | 1/96 | 115% | 147% | 7.2 |
| 2/89 | 62% | 147% | 9.2 | 6/91 | 81% | 137% | 9.6 | 10/93 | 135% | 131% | 9.7 | 2/96 | 94% | 86% | 6.9 |
| 3/89 | 51% | 181% | 9.0 | 7/91 | 65% | 112% | 9.8 | 11/93 | 152% | 141% | 9.9 | 3/96 | 80% | 113% | 6.6 |
| 4/89 | 46% | 135% | 9.9 | 8/91 | 65% | 105% | 10.6 | 12/93 | 164% | 166% | 10.2 | 4/96 | 91% | 151% | 6.9 |
| 5/89 | 42% | 82% | 10.7 | 9/91 | 77% | 243% | 9.8 | 1/94 | 166% | 149% | 10.2 | 5/96 | 88% | 152% | 7.9 |
| 6/89 | 40% | 128% | 10.7 | 10/91 | 80% | 242% | 9.3 | 2/94 | 165% | 159% | 9.9 | 6/96 | 83% | 195% | 7.9 |
| 7/89 | 32% | 149% | 10.9 | 11/91 | 102% | 263% | 8.5 | 3/94 | 189% | 159% | 8.9 | 7/96 | 89% | 233% | 6.8 |
| 8/89 | 35% | 159% | 10.6 | 12/91 | 78% | 130% | 9.5 | 4/94 | 196% | 224% | 8.7 | 8/96 | 74% | 201% | 6.8 |
| 9/89 | 33% | 104% | 10.5 | 1/92 | 92% | 109% | 10.0 | 5/94 | 185% | 240% | 8.7 | 9/96 | 51% | 126% | 7.0 |
| 10/89 | 39% | 153% | 9.5 | 2/92 | 92% | 102% | 10.5 | 6/94 | 209% | 260% | 8.1 | 10/96 | 50% | 182% | 6.7 |
| 11/89 | 31% | 186% | 9.5 | 3/92 | 88% | 89% | 9.6 | 7/94 | 190% | 254% | 8.1 | 11/96 | 51% | 166% | 6.7 |
| 12/89 | 30% | 172% | 9.5 | 4/92 | 93% | 84% | 8.8 | 8/94 | 178% | 230% | 8.8 | 12/96 | 55% | 182% | 7.1 |
| 1/90 | 43% | 207% | 9.5 | 5/92 | 104% | 170% | 8.7 | 9/94 | 177% | 177% | 8.8 | 1/97 | 44% | 187% | 7.2 |
| 2/90 | 47% | 207% | 8.8 | 6/92 | 117% | 241% | 9.0 | 10/94 | 189% | 208% | 9.1 | 2/97 | 40% | 185% | 7.6 |
| 3/90 | 47% | 184% | 9.2 | 7/92 | 125% | 205% | 9.4 | 11/94 | 206% | 188% | 7.7 | 3/97 | 52% | 119% | 6.2 |
| 4/90 | 56% | 187% | 8.6 | 8/92 | 117% | 187% | 9.0 | 12/94 | 220% | 215% | 7.4 | 4/97 | 34% | 194% | 6.5 |
| 5/90 | 48% | 100% | 9.8 | 9/92 | 127% | 228% | 9.1 | 1/95 | 196% | 206% | 7.2 | 5/97 | 26% | 150% | 8.2 |
| 6/90 | 52% | 275% | 9.7 | 10/92 | 118% | 169% | 9.4 | 2/95 | 180% | 202% | 7.5 | 6/97 | 12% | 121% | 8.2 |
| 7/90 | 58% | 342% | 9.4 | 11/92 | 121% | 174% | 10.7 | 3/95 | 199% | 272% | 7.3 | 7/97 | -4% | 91% | 8.9 |
| 8/90 | 74% | 541% | 7.6 | 12/92 | 123% | 138% | 11.3 | 4/95 | 182% | 166% | 7.2 | 8/97 | 2% | 75% | 9.3 |
| 9/90 | 91% | 554% | 7.0 | 1/93 | 123% | 120% | 11.1 | 5/95 | 166% | 148% | 7.8 | 9/97 | -14% | 38% | 9.5 |
| 10/90 | 91% | 661% | 7.0 | 2/93 | 137% | 195% | 10.3 | 6/95 | 167% | 128% | 8.8 | 10/97 | -3% | 58% | 8.7 |
| 11/90 | 88% | 376% | 7.1 | 3/93 | 144% | 157% | 10.0 | 7/95 | 155% | 108% | 8.7 | 11/97 | -2% | 45% | 9.0 |
| 12/90 | 87% | 234% | 8.2 | 4/93 | 153% | 183% | 9.5 | 8/95 | 170% | 116% | 8.6 | 12/97 | -9% | 14% | 8.0 |
| 1/91 | 85% | 211% | 9.0 | 5/93 | 142% | 139% | 9.3 | 9/95 | 146% | 114% | 8.3 | 1/98 | -13% | 19% | 7.8 |
| 2/91 | 74% | 223% | 10.0 | 6/93 | 152% | 146% | 9.0 | 10/95 | 146% | 96% | 7.9 | 2/98 | -20% | 14% | 8.8 |
| 3/91 | 72% | 172% | 10.5 | 7/93 | 150% | 166% | 8.6 | 11/95 | 117% | 107% | 7.6 | 3/98 | -23% | 12% | 8.5 |

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IN 331 5-YEAR TESTS, OVER 32 YEARS IN RISING, FALLING & FLAT MARKETS ERS'S TECHNOLOGY AVERAGE ANNUAL PROFITS: 99.8% VS 54.3% ON THE S&P INDEX

| Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI |
|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|
| 4/98 | -18% | 24% | 8.6 | 8/00 | -20% | 98% | 12.0 | 12/02 | 67% | 107% | 11.4 | 4/05 | 3% | 21% | 11.2 |
| 5/98 | -12% | 38% | 8.9 | 9/00 | -14% | 91% | 11.1 | 1/03 | 61% | 89% | 10.7 | 5/05 | -9% | 24% | 12.4 |
| 6/98 | -14% | 25% | 8.2 | 10/00 | -16% | 96% | 10.8 | 2/03 | 58% | 95% | 9.0 | 6/05 | -13% | 22% | 12.1 |
| 7/98 | -12% | 45% | 7.0 | 11/00 | -5% | 90% | 9.2 | 3/03 | 56% | 99% | 9.3 | 7/05 | -11% | 19% | 13.0 |
| 8/98 | 5% | 132% | 6.4 | 12/00 | -5% | 99% | 9.2 | 4/03 | 51% | 92% | 10.7 | 8/05 | -14% | 10% | 13.6 |
| 9/98 | -2% | 152% | 6.2 | 1/01 | -6% | 49% | 10.5 | 5/03 | 45% | 77% | 12.0 | 9/05 | -7% | 14% | 12.7 |
| 10/98 | -4% | 101% | 6.9 | 2/01 | 3% | 63% | 9.7 | 6/03 | 31% | 43% | 12.4 | 10/05 | -2% | 29% | 11.6 |
| 11/98 | -9% | 91% | 8.5 | 3/01 | 12% | 74% | 8.7 | 7/03 | 28% | 45% | 12.9 | 11/05 | -6% | 29% | 13.2 |
| 12/98 | -10% | 59% | 11.8 | 4/01 | 5% | 39% | 10.0 | 8/03 | 27% | 40% | 13.8 | 12/05 | 1% | 25% | 13.1 |
| 1/99 | -12% | 62% | 11.5 | 5/01 | 1% | 37% | 10.3 | 9/03 | 17% | 35% | 13.3 | 1/06 | 0% | 22% | 14.0 |
| 2/99 | -8% | 88% | 11.2 | 6/01 | 4% | 32% | 10.1 | 10/03 | -8% | 7% | 15.2 | 2/06 | 4% | 12% | 13.3 |
| 3/99 | -12% | 81% | 11.0 | 7/01 | 5% | 39% | 10.3 | 11/03 | -15% | 6% | 15.2 | 3/06 | 2% | 5% | 13.2 |
| 4/99 | -17% | 58% | 11.6 | 8/01 | 15% | 62% | 10.0 | 12/03 | -19% | 9% | 15.8 | 4/06 | 4% | 6% | 12.9 |
| 5/99 | -14% | 66% | 13.2 | 9/01 | 28% | 95% | 7.7 | 1/04 | -27% | -12% | 15.8 | 5/06 | 6% | 16% | 11.9 |
| 6/99 | -17% | 71% | 13.7 | 10/01 | 30% | 81% | 9.0 | 2/04 | -36% | -16% | 14.6 | 6/06 | 4% | 22% | 11.9 |
| 7/99 | -17% | 65% | 13.2 | 11/01 | 23% | 86% | 12.3 | 3/04 | -29% | -7% | 14.3 | 7/06 | 1% | 42% | 10.9 |
| 8/99 | -16% | 66% | 11.0 | 12/01 | 24% | 56% | 13.8 | 4/04 | -21% | 8% | 13.4 | 8/06 | -7% | 38% | 11.6 |
| 9/99 | -13% | 75% | 11.3 | 1/02 | 27% | 58% | 13.7 | 5/04 | -18% | 15% | 12.8 | 9/06 | -15% | 15% | 11.6 |
| 10/99 | -17% | 71% | 11.2 | 2/02 | 27% | 76% | 13.7 | 6/04 | -19% | 15% | 12.2 | 10/06 | -9% | 13% | 12.0 |
| 11/99 | -15% | 69% | 12.1 | 3/02 | 24% | 61% | 13.8 | 7/04 | -10% | 15% | 11.7 | 11/06 | -11% | 5% | 12.1 |
| 12/99 | -18% | 90% | 13.6 | 4/02 | 38% | 75% | 13.3 | 8/04 | -8% | 27% | 11.3 | 12/06 | -11% | 7% | 11.8 |
| 1/00 | -15% | 83% | 13.3 | 5/02 | 43% | 91% | 12.7 | 9/04 | -5% | 32% | 11.5 | 1/07 | -9% | 13% | 12.1 |
| 2/00 | -12% | 108% | 14.1 | 6/02 | 52% | 87% | 11.3 | 10/04 | -8% | 22% | 12.0 | 2/07 | -3% | 11% | 11.9 |
| 3/00 | -21% | 86% | 14.3 | 7/02 | 60% | 117% | 10.0 | 11/04 | -7% | 19% | 12.4 | 3/07 | -1% | 28% | 11.7 |
| 4/00 | -20% | 82% | 13.6 | 8/02 | 61% | 108% | 10.2 | 12/04 | -8% | 25% | 13.1 | 4/07 | -6% | 9% | 11.6 |
| 5/00 | -16% | 101% | 13.9 | 9/02 | 87% | 111% | 9.8 | 1/05 | -9% | 20% | 12.5 | 5/07 | -14% | -8% | 13.2 |
| 6/00 | -18% | 114% | 13.4 | 10/02 | 75% | 122% | 10.6 | 2/05 | -8% | 13% | 12.2 | 6/07 | -9% | -2% | 12.7 |
| 7/00 | -14% | 109% | 12.4 | 11/02 | 58% | 84% | 11.6 | 3/05 | -1% | 13% | 11.9 | 7/07 | -5% | 11% | 12.2 |

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| Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI | Date | S&P 500 | ERS's Portfolio | Avg. ERI |
|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|-------|---------|--------------------|-------------|
| 8/07 | -5% | 23% | 12.3 | 12/09 | 85% | 137% | 12.5 | 4/12 | 71% | 77% | 12.9 | 8/14 | 46% | 19% | 18.2 |
| 9/07 | -6% | 28% | 11.9 | 1/10 | 86% | 123% | 12.5 | 5/12 | 84% | 76% | 11.8 | 9/14 | 51% | 34% | 16.6 |
| 10/07 | -9% | 21% | 12.1 | 2/10 | 91% | 131% | 13.2 | 6/12 | 78% | 63% | 12.3 | 10/14 | 51% | 43% | 15.9 |
| 11/07 | -4% | 27% | 12.3 | 3/10 | 77% | 120% | 13.6 | 7/12 | 79% | 72% | 12.3 | 11/14 | 52% | 37% | 18.2 |
| 12/07 | -3% | 28% | 12.4 | 4/10 | 76% | 113% | 13.5 | 8/12 | 76% | 61% | 13.2 | 12/14 | 57% | 27% | 17.7 |
| 1/08 | 9% | 34% | 10.8 | 5/10 | 93% | 140% | 12.2 | 9/12 | 75% | 103% | 13.2 | 1/15 | 62% | 33% | 16.7 |
| 2/08 | 14% | 47% | 10.8 | 6/10 | 100% | 156% | 10.9 | 10/12 | 82% | 128% | 13.1 | 2/15 | 40% | 11% | 19.8 |
| 3/08 | 19% | 50% | 10.0 | 7/10 | 91% | 147% | 11.3 | 11/12 | 87% | 112% | 14.1 | 3/15 | 25% | -8% | 18.7 |
| 4/08 | 15% | 41% | 10.6 | 8/10 | 88% | 109% | 10.2 | 12/12 | 87% | 122% | 14.1 | 4/15 | 40% | 6% | 17.8 |
| 5/08 | 16% | 46% | 11.9 | 9/10 | 68% | 74% | 11.5 | 1/13 | 88% | 126% | 15.6 | 5/15 | 44% | 20% | 20.1 |
| 6/08 | 25% | 65% | 10.1 | 10/10 | 76% | 70% | 12.3 | 2/13 | 79% | 121% | 15.5 | 6/15 | 50% | 35% | 18.8 |
| 7/08 | 33% | 82% | 9.9 | 11/10 | 76% | 66% | 12.4 | 3/13 | 68% | 96% | 15.6 | 7/15 | 55% | 42% | 18.0 |
| 8/08 | 27% | 54% | 10.6 | 12/10 | 63% | 55% | 13.0 | 4/13 | 66% | 108% | 15.7 | 8/15 | 77% | 49% | 17.8 |
| 9/08 | 44% | 82% | 8.5 | 1/11 | 51% | 43% | 13.4 | 5/13 | 66% | 89% | 17.2 | 9/15 | 75% | 69% | 16.2 |
| 10/08 | 81% | 133% | 6.6 | 2/11 | 46% | 27% | 13.0 | 6/13 | 69% | 99% | 16.7 | 10/15 | 57% | 56% | 17.0 |
| 11/08 | 101% | 164% | 6.3 | 3/11 | 55% | 35% | 12.4 | 7/13 | 67% | 105% | 17.6 | 11/15 | 74% | 55% | 19.4 |
| 12/08 | 105% | 159% | 6.4 | 4/11 | 51% | 29% | 12.5 | 8/13 | 78% | 107% | 17.4 | 12/15 | 84% | 73% | 18.4 |
| 1/09 | 116% | 173% | 5.9 | 5/11 | 56% | 36% | 11.3 | 9/13 | 73% | 99% | 18.0 | 1/16 | 91% | 100% | 16.7 |
| 2/09 | 153% | 173% | 7.1 | 6/11 | 59% | 44% | 11.5 | 10/13 | 54% | 75% | 18.6 | 2/16 | 97% | 122% | 18.0 |
| 3/09 | 135% | 164% | 7.1 | 7/11 | 68% | 49% | 11.1 | 11/13 | 53% | 54% | 19.3 | 3/16 | 93% | 93% | 18.9 |
| 4/09 | 116% | 116% | 8.1 | 8/11 | 78% | 59% | 10.2 | 12/13 | 36% | 27% | 19.9 | 4/16 | 102% | 121% | 18.0 |
| 5/09 | 109% | 137% | 9.2 | 9/11 | 92% | 65% | 8.7 | 1/14 | 52% | 38% | 18.5 | 5/16 | 100% | 109% | 19.3 |
| 6/09 | 113% | 105% | 8.7 | 10/11 | 70% | 38% | 10.3 | 2/14 | 50% | 21% | 19.5 | 6/16 | 105% | 143% | 18.4 |
| 7/09 | 96% | 100% | 9.8 | 11/11 | 76% | 70% | 10.9 | 3/14 | 51% | 24% | 17.8 | | | | |
| 8/09 | 96% | 136% | 10.8 | 12/11 | 78% | 75% | 10.8 | 4/14 | 56% | 36% | 17.6 | | | | |
| 9/09 | 87% | 124% | 11.2 | 1/12 | 74% | 55% | 12.0 | 5/14 | 43% | 20% | 17.6 | | | | |
| 10/09 | 95% | 143% | 10.9 | 2/12 | 73% | 44% | 13.4 | 6/14 | 50% | 27% | 17.3 | | | | |
| 11/09 | 89% | 145% | 12.1 | 3/12 | 68% | 53% | 13.5 | 7/14 | 54% | 28% | 16.4 | | | | |

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CONCLUSIONS

ERS's Portfolios

Sreatly Reduces Losses



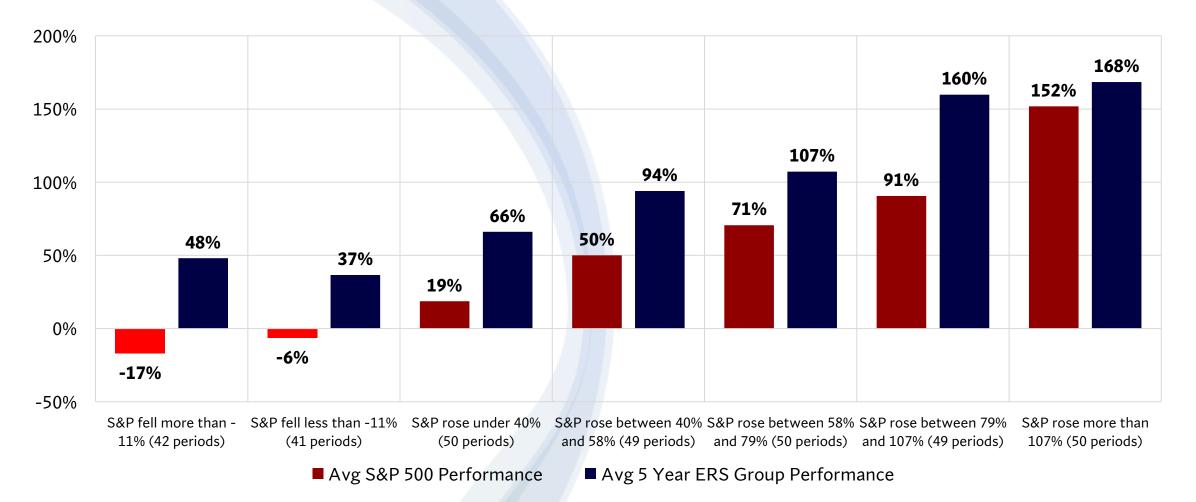
Greatly Improves Profitability



No other research that we know of is as reliable or as valuable.

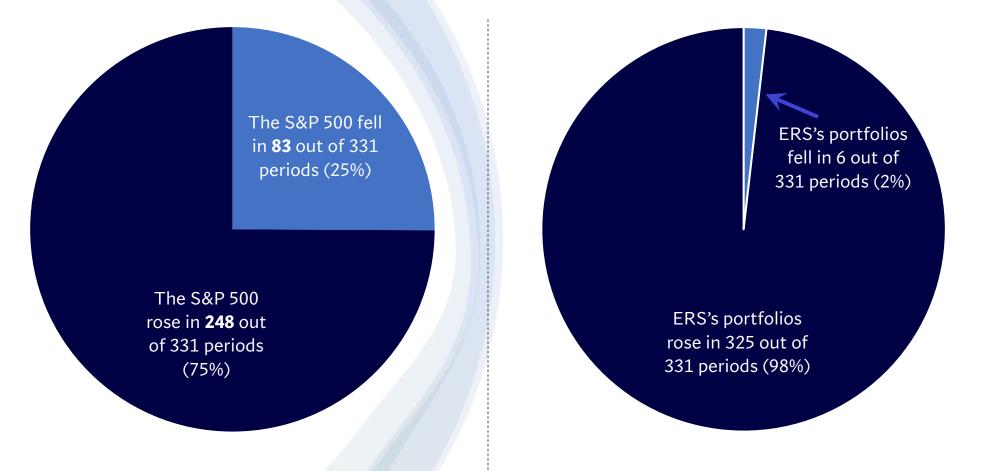
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THE ALPHA OF ERS'S PORTFOLIOS BY 7 CATEGORIES



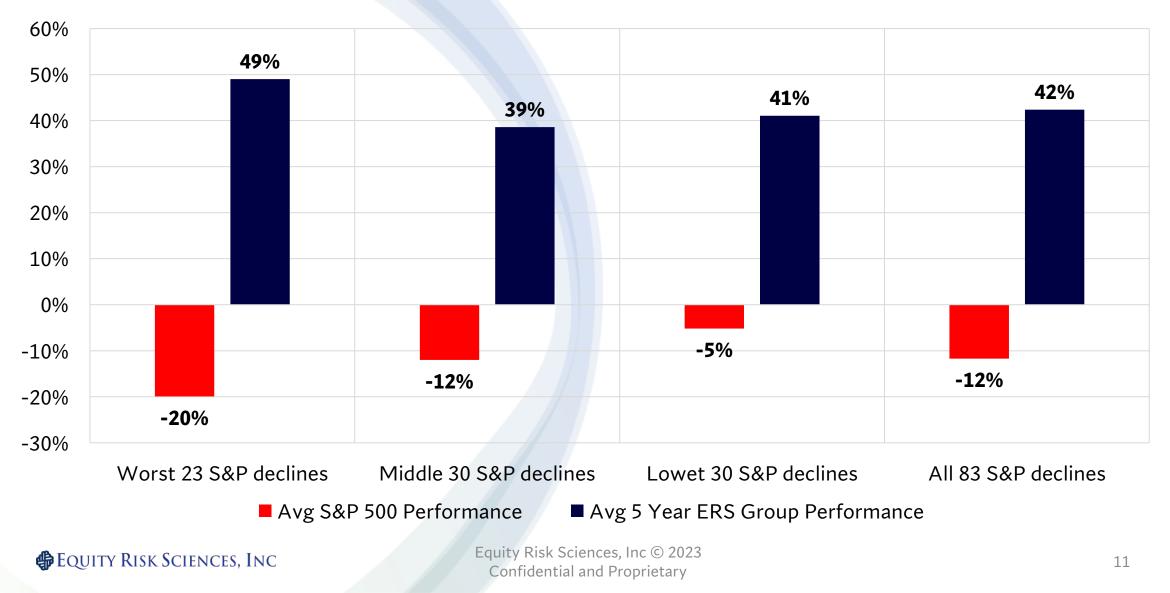
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ERS's PORTFOLIOS PROVIDED CONSISTENT PROFITABILITY

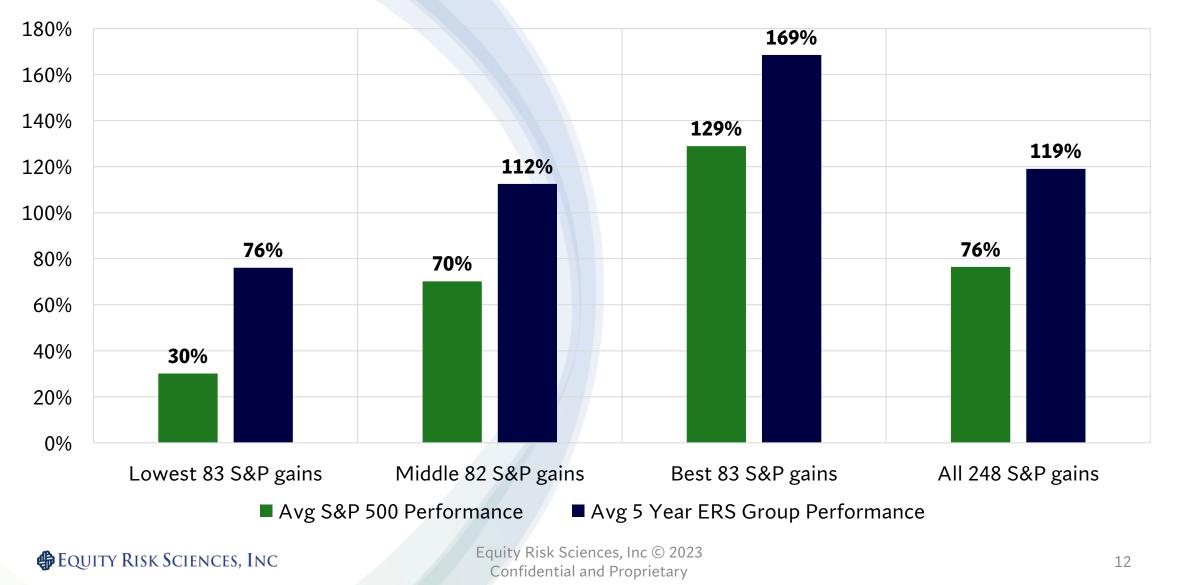


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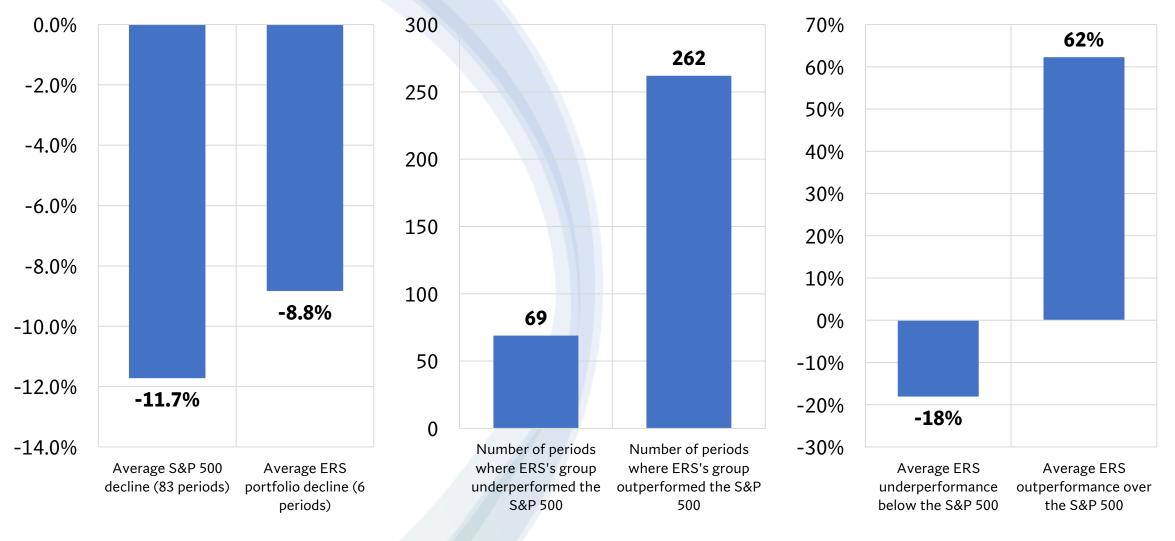
IN THE 83 PERIODS WHEN THE S&P 500 FELL, ERS'S PORTFOLIOS OUTPERFORMED



IN THE 248 PERIODS WHEN THE S&P 500 ROSE, ERS'S PORTFOLIOS OUTPERFORMED



AVERAGE ALPHA OF ERS'S PORTFOLIOS



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