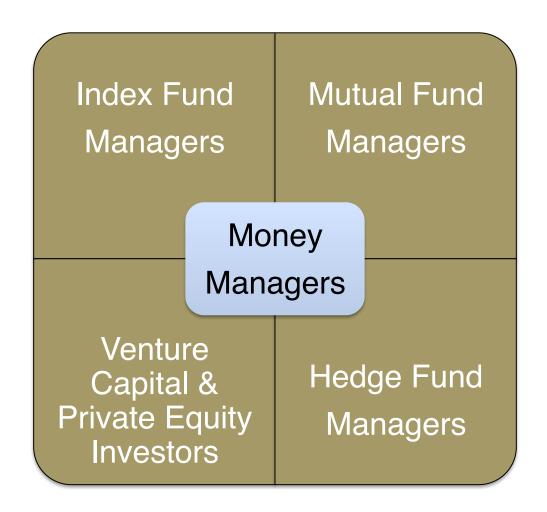
Four Types of Money Managers and Their Performance Metrics

Daniel Egger





Index Fund Managers

Stock indexes track performances of entire market

S&P 500

^GSPC

= Market capitalization

(\$52)(\$5,000,000)

= \$260 million



Total market capitalization Approx. \$15 trillion

S&P 500

Market-capitalization weighted index



\$666 billion \$15 trillion

= .0444

=4.44%

Index investing = passive investing



SPDR® S&P 500® ETF
"SPY"

Expense Ratio

\$\$ spent on operating fund

total market value of fund assets

SPY

Expense ratio 0.0945%

(\$135 billion)(.000945) = \$127 million iShares Trust - iShares Core S&P 500 ETF (IVV)

Vanguard S&P 500 ETF (voo)

Mutual Fund Managers

Judged on 3 measures

- 1. Excess return
- 2. Tracking error
- 3. Information ratio

Excess return

Tracking error

= Information ratio

Manager "excess 27% 25% 121/0 -2010 - 23º/o -18°/0 3.030 b Tracking excess return 3,0310

