

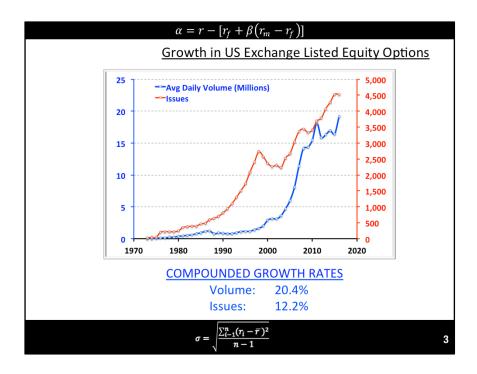
## $\alpha = r - [r_f + \beta (r_m - r_f)]$

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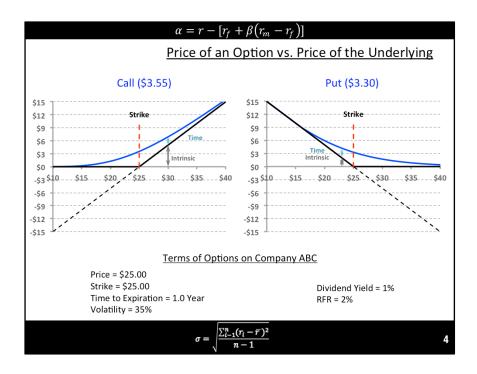
- \* Fundamentals & Background
- \* Typical Approach to Directional Option Trading
- \* Index Options Returns
  - ✓ Characteristics
  - ✓ Implication
- \* Idea Generation Methodology
- **★ Track Record**

 $\sigma = \sqrt{\frac{\sum_{i=1}^{n} (r_i - \overline{r})^2}{n-1}}$ 

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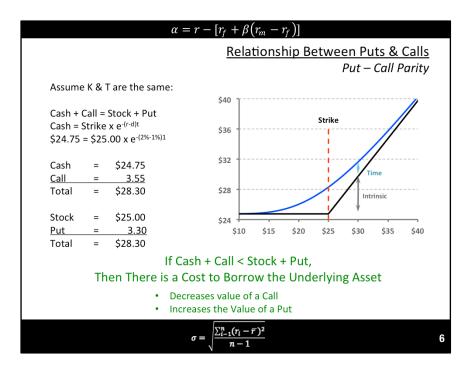
 Listed options are the fastest growing financial product in the market place today.



- The greatest feature of an option is "limited risk"
  - Payoff for a call
    - If you bought a stock, your gain and loss would follow the dotted line in the found on the left hand side of the slide above.
    - If you bought a call options, your gain and loss would follow the blue line.
  - Payoff for a put
    - If you sold short a stock, your gain and loss would follow the dotted line in the found on the right hand side of the slide above.
    - If you bought a call options, your gain and loss would follow the blue line.

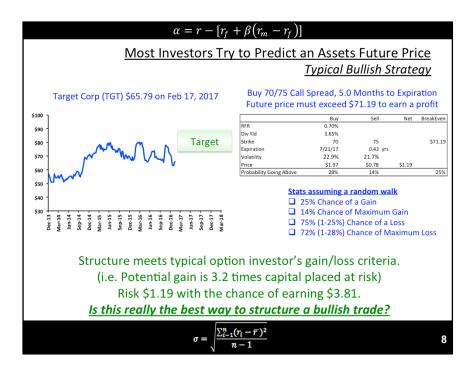
t happened to the price of an op			
Priver	Call	Put	Greek
Price of the Underlying (S)	<b>↑</b>	¥	Delta
Strike Price (K)	Ψ	<b>^</b>	
Volatility (σ)	<b>^</b>	<b>^</b>	Vega
Time to Expiration (T)	<b>↑</b>	<b>↑</b>	Theta
Interest Rates (I)	<b>^</b>	¥	Rho
Dividend Rate (D)	•	<b>^</b>	Phi
Security Borrowing Rate (B)	•	<b>↑</b>	Phi
Probability of Expiring In-the-Money			Zeta
	cial Case		

- There are a number of factors that drive the value of an option
- The chart above shows what happens to the price of put & call options given a change in a valuation factor
- The most important factors to keep an eye on are delta, vega and theta
  - Delta
    - The price of a call rises if the price of the underlying rises (delta positive)
    - The price of a put rises if the price of the underlying falls (delta negative)
  - Vega
    - The price of both a put and call rises when implied volatility rises
  - Theta
    - The price of both a put and call rises as the time to expirations increases



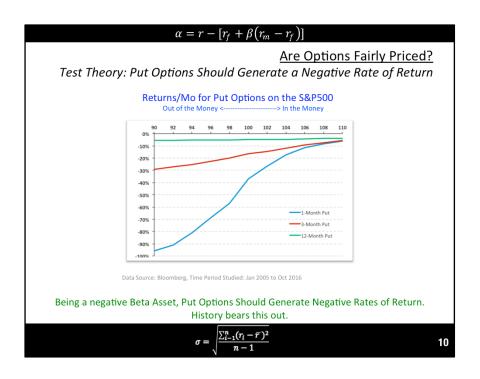
- Put call Parity
- Cash plus a call will give you the same return as owning the stock along with a protective put
  - Assumptions
  - Time to expiration is the same
  - Strike price is the same.



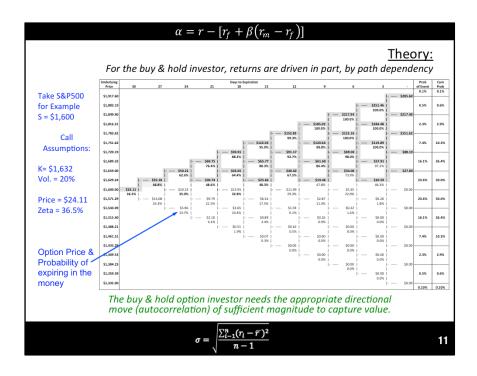


- When an options investor is bullish, they typically buy an at or more typically an out of the money call or call spread
  - Risk is limited to the premium paid
  - Potential returns is a multiple of money put at risk
  - The probability of success is less than 50%
- Is this the best way to go.

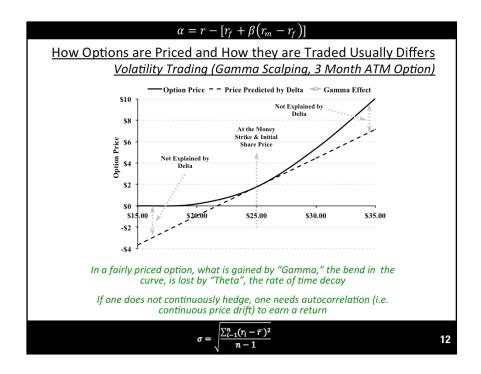




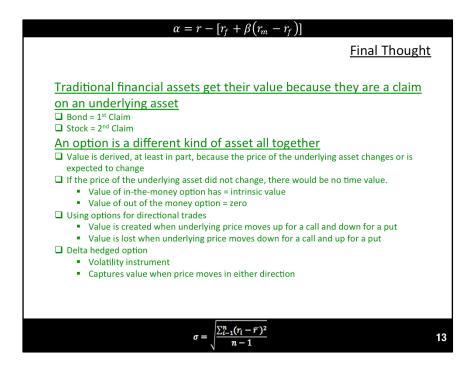
- Longer dated options outperform shorter dated options
- In the money options outperform out of the money options



- Most people trade options with a directional objective in mind
- To be successful, the investor must get the timing and direction right

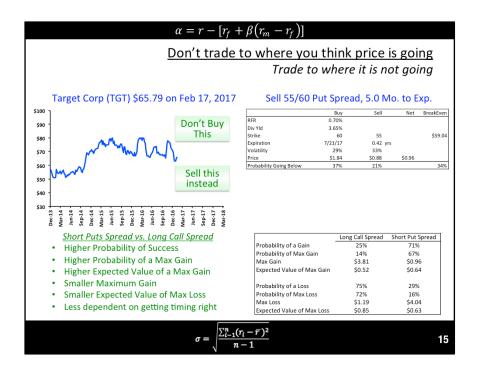


- Options are priced assuming the are continuously hedged against the underlying instrument
- The value of an options is dependent on volatility, not the expected return of the underlying asset
- How the typical investor uses an option is inconsistent with how they are priced

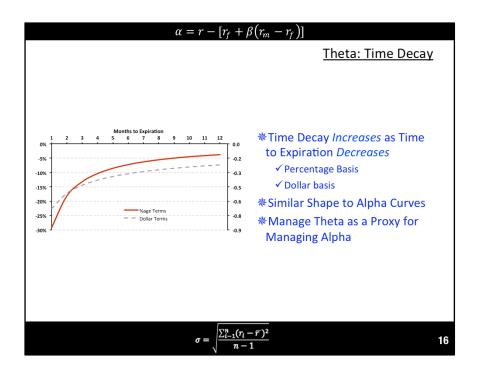


- The typical asset has value because it exists.
- An option has value because the price of the underlying is expected to change



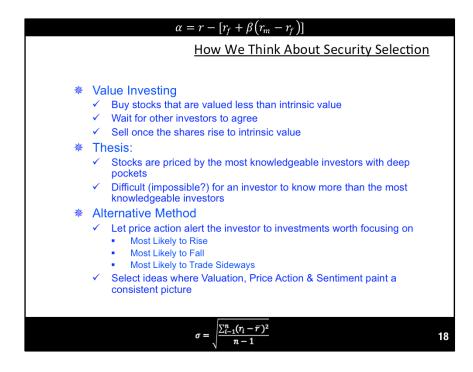


- Instead of buying a call spread when you are bullish, sell a put spread instead
- You put more capital at risk than a call spread, but
- The probability of success is much higher

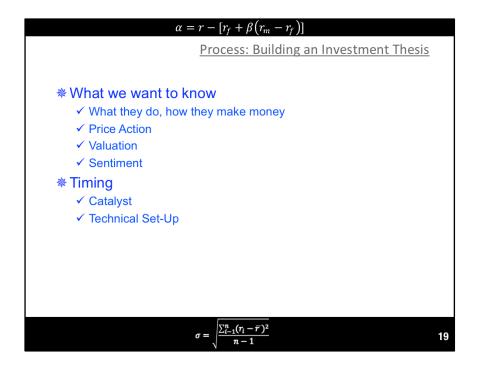


- The rate of price decay increases as the time to expiration falls.
- When buying options, buy longer dated ones
- When selling options, sell shorter dated ones

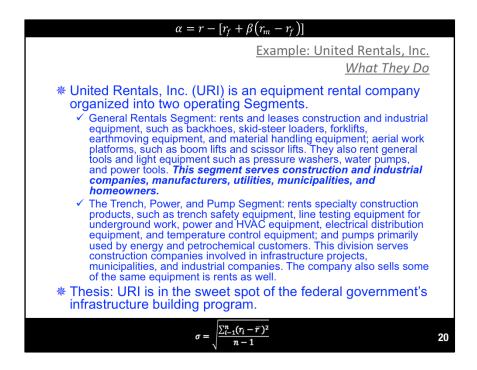




- Most investors look for stocks they believe are under priced
  - Buy and wait for the price to rise
  - The downside is that cheap stocks cheaper
- Our approach starts with running our "Expert System" over a universe of stocks (typically large cap stocks with liquid options)
  - Divide those stock into 3 categories
    - Those like to rise
    - Those like to fall
    - Those likely to trade sideways
  - Select the opportunities that with those categories
    - Buy those with highest probability of rising
    - Sell those with highest probability of rising
    - Sell volatility of those most like to trade sideways



 We look for price action, valuation and sentiment to come together to find the opportunities with the highest probability of success



 We start our reports with a company description so our readers will understand what the company does and how it makes money



We then analyze who the stock is trading

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\alpha = r - [r_f + \beta(r_m - r_f)]
\underline{\text{Example: United Rentals, Inc.}}
\underline{\text{Valuation}}
** Trailing PE = 18 (median stock in S&P500 = 22)

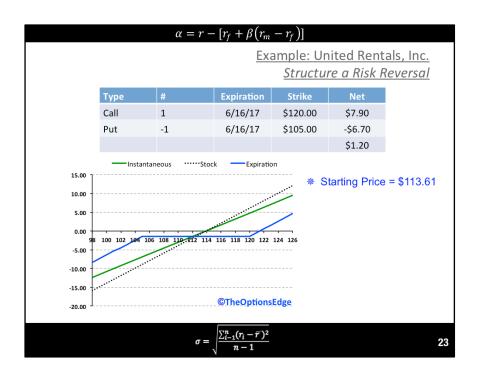
** Forward PE = 13

** EV/EBITDA = 9.3

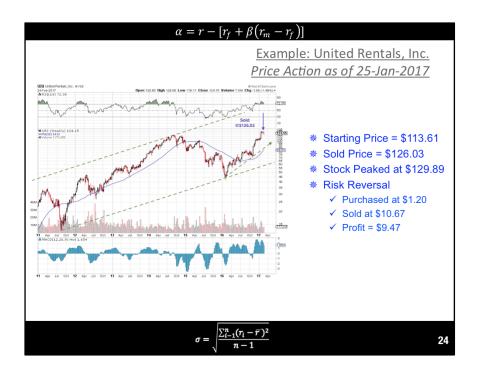
** 20% EPS Growth

\sigma = \sqrt{\frac{\sum_{l=1}^{n}(r_l - \bar{r})^2}{n-1}}
22
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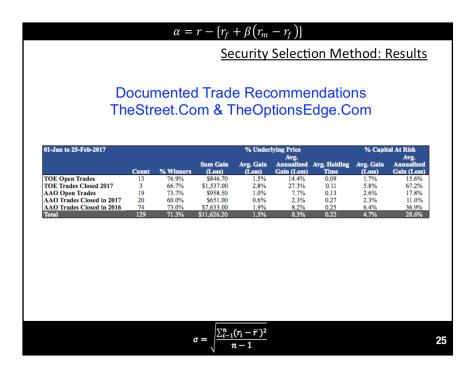
Next step is to understand valuation



- We then match a strategy that is consistent with the fundamentals, technicals and investor sentiment.
- In this case, since we were looking for a big move, we chose a stock replacement strategy



 The stock traded higher as the company reported good earnings which drew peoples attention to a company that will benefit from a growth in construction and infrastructure investing



- Our track record shows that this process works
- Since inception, our ideas have generated a 28.6% annualized return on capital placed at risk

## $\alpha = r - [r_f + \beta (r_m - r_f)]$

## Mark W. Guthner, CFA



Executive Editor and Senior Contributor Mark W. Guthner is a veteran of the financial services industry. His skills and experience stretch across multiple disciplines including trading, portfolio and risk management, securities analysis and valuation, investment banking and financial technology as well.

Mark served as a Principal, Portfolio Manager, Proprietary Trader and Equity Derivative Strategist at Banc of America Securities, CRT Capital Group LLC and Dash Financial LLC. In these roles, Mark advised institutional investors on the use of options to express market views and to hedge or eliminate unwanted risks from institutional portfolios. In his proprietary trading activities, Mark generated returns on capital in excess of \$5% ner year.



Options Edge Executive Editor and Senior Contributor Michael Khouw is a veteran of the financial services industry whose derivatives trading experience began in the 1990s as a member and floor trader in the open-outcry pits of the Philadelphia Stock Exchange, the American Stock Exchange and the New York Mercantile Exchange. Since then Mike has broad experience working as a strategist, analyst, portfolio manager and proprietary trader of equities, commodities and equity and index derivatives.

Mike has shared his insights as a contributor on CNBC's Fast Money and Options Action, the first television show educating self-directed investors on the proper use of listed options. He also publishes articles and frequently speaks on a broad array of topics including trading strategy, market structure and regulation at investment conferences



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