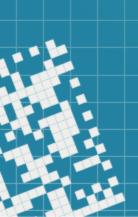
Options Fundamentals Ep 8

Demystifying the Greeks Rho & Wrap up

Gab: Finance Group @MidwayGab

BitChute: MidwayTrades



Disclaimer

This presentation is for educational purposes only. Nothing in this presentation is intended to be trading or financial advice.



Cost to Carry

- Any time you put money somewhere, you have to measure the cost of not putting it somewhere (i.e. interest)
 - By putting money (or margin) into an option, you are giving up the potential interest you could be earning on that money
 - This is a cost to carry and it can be quantified

What is Rho?

- Rho is the Greek that quantifies the cost to carry of an options contract
- Calls have positive Rho while puts have negative Rho
 - This is because call options tend to go up with interest rates while put options tend to go down
- Rho is higher ITM than OTM
- Rho is higher as you go further out in time

Rho @ 9 days

SPX	- 0	S&P 500 I	INDEX 279	92.67 ^{+17.}	.79 B: 2757 54% A: 2810	.10 .54			ASESSON.		
 Underlyi 	ing										
		Last X		Net Chng		В	id X		Ask X Si	ize	
,	2792.67			+17.79			2757.10		54 0 x	0 × 0	
✓ Option (Chain Filt	er: Off	Spread: Single	Layout:	Last X, Ne	t Change,	Impl Vol, I	Delta, Ve			
		-		CALLS					Strikes: 30 ▼		
	Last X	Net C	Impl Vol	Delta ,	Vega ,	Rho	Bid X	Ask X	Exp	Strike	
✓ 4 MAR		100 (Weel									
	74.95 C	+47.00		1.00	.00	.82	73.10 C	75.70 C	4 MAR 19	2720	
	52.10 C		7.01%	.98	.22	.80	68.50 C	71.00 C	4 MAR 19	2725	
	57.45 C			.96	.43	.79	63.90 C	66.40 C	4 MAR 19	2730	
	60.35 C			.94	.60	.77	59.40 C	61.80 C	4 MAR 19	2735	
	51.55 C	+4.05	8.38%	.91	.76	.75	55.00 C	57.30 C	4 MAR 19	2740	
	49.80 C			.89	.92	.73	50.60 C	52.90 C	4 MAR 19	2745	
	41.90 C		8.55%	.86	1.07	.71	46.40 C	48.50 C	4 MAR 19	2750	
	40.50 C		8.53%	.83	1.21	.69	42.20 C	44.20 C	4 MAR 19	2755	
	36.50 C		8.50%	.80	1.35	.66	38.10 C	40.10 C	4 MAR 19	2760	
	35.00 C		8.44%	.77	1.48	.64	34.20 C	36.00 C	4 MAR 19	2765	
	30.28 C		8.36%	.73	1.60	.61	30.40 C	32.10 C	4 MAR 19	2770	
	26.58 C		8.25%	.69	1.71	.57	26.80 C	28.30 C	4 MAR 19	2775	
	23.20 C		8.18%	.65	1.80	.54	23.40 C	24.80 C	4 MAR 19	2780	
	21.40 C		8.09%	.60	1.87	.50	20.20 C	21.50 C	4 MAR 19	2785	
	18.40 C		8.00%	.55	1.92	.46	17.30 C	18.40 C	4 MAR 19	2790	
	15.50 C	+6.55	8.00%	.50	1.93	.41	14.90 C	15.60 C	4 MAR 19	2795	
	12.55 C	+4.40	7.83%	.45	1.92	.37	12.40 C	12.80 C	4 MAR 19	2800	
	10.30 C	+3.65	7.82%	.39	1.87	.33	10.20 C	10.80 C	4 MAR 19	2805	
	8.93 C	+3.69	7.72%	.34	1.78	.29	8.20 C	8.80 C	4 MAR 19	2810	
	7.18 C	+2.03	7.64%	.29	1.67	.24	6.50 C	7.10 C	4 MAR 19	2815	
	5.48 C	+1.98	7.57%	.25	1.53	.21	5.10 C	5.60 C	4 MAR 19	2820	
	4.95 C	+1.85	7.46%	.20	1.37	.17	3.90 C	4.30 C	4 MAR 19	2825	
	3.71 C	+1.67	7.43%	.17	1.21	.14	3.00 C	3.30 C	4 MAR 19	2830	
	2.45 C	+.65	7.36%	.13	1.03	.11	2.25 C	2.45 C	4 MAR 19	2835	
	1.73 C	+.38	7.34%	.10	.87	.09	1.65 C	1.85 C	4 MAR 19	2840	
	1.25 C	+.25	7.30%	.08	.72	.07	1.20 C	1.35 C	4 MAR 19	2845	
	.90 C	+.10		.06	.58	.05	.85 C	1.00 C	4 MAR 19	2850	
	.65 C	+.09		.05	.46	.04	.60 C	.70 C	4 MAR 19	2855	
	.50 C	+.05	7.29%	.03	.37	.03	.40 C	.55 C	4 MAR 19	2860	
	.50 C	(7.36%	.03	.29	.02	.30 C	.40 C	4 MAR 19	2865	

Rho @ 327 days

					/3 B: //5/				203 Oct.	
SPX	- U	S&P 500	INDEX 279 2	2.67	54% A: 2810	.54				
 Underly 	ring									
		Last X		Net Chng		Е	id X	Ask X		Size
>	27	792.67		+17.79		2757.1		2810.54		0 × 0
 Option (Chain Filt	er: Off .	Spread: Single	. Layout:	Last X, Ne	t Change,	Impl Vol.	Delta, Ve		
		1		CALLS					Strikes: 30	▼
	Last V	Not C		Delta ,	Moga	Dho	Did V	A - I. V		_
			_ Impl Vol _	Delta ,	Vega 🔏	Rho 🔏	Bid X	Ask X	Exp	Str
→ 17 JAN	1 20 (327)	100								
	0		0 13.16%	.91	4.22	19.06	429.30 C	433.10 C	17 JAN 20	24
	322.00 C		0 13.40%	.89	4.83	18.81	408.90 C	412.50 C	17 JAN 20	24
	272.36 C		0 13.55%	.88	5.39	18.55	388.60 C	392.20 C	17 JAN 20	24
	367.42 C		13.63%	.86	5.92	18.28	368.60 C	372.10 C	17 JAN 20	25
	287.35 C		0 13.68%	.84	6.43	17.99	348.90 C	352.30 C	17 JAN 20	2
	318.00 C		0 13.68%	.82	6.92	17.68	329.40 C	332.80 C	17 JAN 20	2
	252.25 C		0 13.66%	.80	7.38	17.35	310.30 C	313.60 C	17 JAN 20	2
	287.50 C		13.59%	.78	7.83	17.01	291.40 C	294.60 C	17 JAN 20	2
	268.32 C		0 13.49%	.76	8.24	16.64	272.80 C	275.90 C	17 JAN 20	2
	253.92 C		13.38%	.74	8.64	16.25	254.60 C	257.60 C	17 JAN 20	2
	236.70 C		0 13.25%	.71	9.01	15.83	236.70 C	239.70 C	17 JAN 20	2
	217.50 C		13.09%	.69	9.35	15.38	219.20 C	222.10 C	17 JAN 20	2
	193.50 C		0 12.93%	.67	9.66	14.90	202.60 C	204.60 C	17 JAN 20	2
	185.50 C			.64	9.93	14.39	185.90 C	187.90 C	17 JAN 20	2
	171.02 C	+10.0		.61	10.16	13.84	169.80 C	171.70 C	17 JAN 20	2
	150.80 C	+8.0		.58	10.34	13.27	154.20 C	155.90 C	17 JAN 20	2
	139.30 C		0 12.11%	.55	10.48	12.65	139.20 C	140.80 C	17 JAN 20	2
	125.55 C	+1.7		.52	10.56	12.01	124.80 C	126.40 C	17 JAN 20	2
	108.70 C	+5.1		.49	10.57	11.33	111.20 C	112.70 C	17 JAN 20	2
	97.04 C	+2.4		.46	10.51	10.62	98.30 C	99.70 C	17 JAN 20	2
	87.00 C		0 11.21%	.42	10.38	9.89	86.20 C	87.50 C	17 JAN 20	2
	74.98 C	+5.7		.39	10.17	9.14	75.10 C	76.40 C	17 JAN 20	2
	64.85 C	-1.1		.36	9.88	8.38	64.80 C	66.00 C	17 JAN 20	2
	55.37 C	-3.7		.32	9.52	7.62	55.60 C	56.80 C	17 JAN 20	3
	47.51 C	-1.8		.29	9.08	6.87	47.30 C	48.40 C	17 JAN 20	3
	42.40 C		0 10.27%	.26	8.57	6.14	40.00 C	41.00 C	17 JAN 20	3
	24.90 C		0 10.14%	.23	8.03	5.45	33.60 C	34.70 C	17 JAN 20	3
	31.50 C		0 10.03%	.20	7.45	4.81	28.20 C	29.20 C	17 JAN 20	3
	22.80 C		0 9.93%	.18	6.86	4.21	23.50 C	24.40 C	17 JAN 20	31
	18.95 C		0 9.87%	.15	6.27	3.67	19.60 C	20.50 C	17 JAN 20	31

Why Do We Care?

- Most of the time, we don't
- When would we care?
 - High interest rate environment
 - Trading LEAPS (>1 yr options)

Summary of Greeks

- Delta / Gamma
 - Helps us determine the price risk of our position
- Theta
 - Helps us determine the time risk of our position
- Vega
 - Helps us determine the volatility risk of our position
- Rho
 - Helps us determine the cost to carry risk of our position

Putting It All Together

- Understand the goals of your trade
 - How does your trade make money?
- Are the assumptions of your position still valid?
 - Do you need to adjust?
 - Do you need to exit?
 - Is the risk still worth the reward?
- All of this leads to the creation of a trade plan!

Greeks as Physics

- Some Greeks will work against each other at certain times
 - Delta/Gamma may make your trade explode if it moves in the right direction
 - But Theta is highest near expiration as well
 - Delta may benefit you if a stock goes up, but Vega may push back against that
- Sometimes the Greeks work together and can really help you in one direction, but really hurt you in the opposite direction
- Successful traders understand these forces and build trade plans to account for them

Anatomy of a Trade Plan

- Initial Setup
 - Underlying, DTE, which options to buy/sell
 - When do you put this trade on? (Market conditions, timing, etc)
 - Initial Greeks
- Profit Goal / Max Loss
- Adjustment Points (if any)
 - How do you respond when the market conditions change the assumptions of your trade?
 - Where and when should you adjust?
- How long should you stay in?
- All of these things are based on the Greeks!

