OPTIONS AND FUTURE Hedging vs Speculation





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DERIVATIVES

1. CONCEPT

What is a derivative instrument?

Derivatives are financial instruments whose pay-off is reliant on the future realization of a reference variable or a basket of references. Hence, their value depends on another asset or a basket of assets, called «underlying».

Depending on the strategy used, derivatives can serve as instruments to hedge a position, or speculate on the future variation of the underlying asset.

MOST COMMON UNDERLYING ASSETS



Stocks



Interest rates



Currencies



Indexes



Commodities

OPTIONS

1. CONCEPT

What is an option?

An option is a derivative instrument which gives the holder the right, but not the obligation, to buy or sell an underlying asset at a specified price throughout a limited period of time.

What are the different exercise style of options?

1

American options

American options give owners the right to exercise the option at any time before the expiration date.

What are the different types of options?





European options

European options give owners the right to exercise the option only when the expiration date comes.

A call option enables the owner to BUY the underlying asset over a specified period of time.

A put option enables the owner to SELL the underlying asset over a specified period of time.

2. KEY CHARACTERISTICS



The price (S) – As shown earlier, the underlying asset associated with option contracts may vary from stocks to bonds to indexes, among others.

The strike price (X) – The exercise price, or strike price, corresponds to the price at which the underlying can be bought or sold when the option is exercised.

The maturity date (T) – The expiration date, or maturity date, represents the last day on which the option can still be exercised. Over that date, the option is said to be expired.

The price of the option (C/P) – The premium corresponds to the current market price of the option contract. In other words, this is the price investors have to pay to get the benefit associated with this contract.

Call vs Put – Depending on the strategy, as well as the convictions regarding the future movements of the underlying asset, investors have the opportunity to buy or sell both call and put options.

3. PROFIT DIAGRAMS

Position: (buy) long call



As can be seen, an investor with a long call position enters in the positive profit zone whenever the price of the underlying security goes beyond the sum of the option's premium and the strike price (S > X + C).

Position: (sell) short call



As can be seen, an investor with a **short call position** is in positive profit zone if the price of the underlying security remains below the sum of the option's premium and the strike price (S < X + C).

3. PROFIT DIAGRAMS

Position: (buy) long put



As can be seen, an investor with a **long put position** is in the positive profit zone **if the price of the underlying security remains below the strike price minus the option's premium** (S < X - P). Position: (sell) short put



As can be seen, an investor with a **short put position** enters in the positive profit zone **whenever the price of the underlying security is above the strike price minus the option's premium** (S > X - P).

Positive profit

Underlying price

4. ADVANTAGES & DISADVANTAGES

Advantages

1

Risk/Reward profile

When used efficiently, options give traders the opportunity to earn substantial returns from relatively small variations in the price of the underlying asset.

2 Leverage

Options allow investors to take huge positions with low initial capital requirements.

3

Hedging possibilities

While sometimes used as speculation tools, options can also be part of hedging strategies. Investors can then reduce portfolio exposure to the risk of significant drop in prices, by taking a position in the option market which is inversely correlated to the targeted stock market position.

Disadvantages



Ownership benefit

By taking a position in the option market, investors do not enjoy any benefit associated with ownership (dividends, votes...).

2

3

Expiration date

Option's holders have limited time to benefit from the option's potential, before it can become entirely worthless.

Liquidity

For many individual stock options, trading volumes can be low, reducing the liquidity of such instruments.

FUTURES

1. CONCEPT

What is a futures contract?

A futures contract is a legal agreement between a buyer and a seller to buy or sell an underlying asset at a defined price at a specified date in the future.

Futures are standardized in terms of quality and quantity, allowing the trading on dedicated exchanges.

FUTURES BUYER

OBLIGATION

COST OR

PROCEEDS

Obligation

The buyer of the futures contract has the obligation to buy the specified quantity of underlying asset at the defined date.

Margin and daily cash settlement

A margin requirement to open positions is requested.

In a daily settlement, your net profit or loss is automatically reflected in your margin account based on the settlement price at the end of every trading day.

Buyer's vs seller's perspective

FUTURES SELLER

Obligation

On his side, the seller of the
futures contract has the
obligation to sell the agreed
quantity of underlying asset
at the expiration date.

2. CHARACTERISTICS

Futures contract

STANDARDIZED	EXCHANGE-TRADED	TRADED ON MARGIN
To facilitate trading on	Futures contracts are	Futures contracts are
dedicated exchanges,	traded on futures	traded on margin, which
futures contracts	exchanges, wherein	means that investors must
are standardized,	different types of futures	first deposit a certain
in terms of quality	can be bought and sold	amount with a broker
(standard deliverable	daily.	before being able to open
grade), quantity (size of	Futures exchanges play the	a futures position.
contracts), and delivery	role of clearer and settler,	Margins usually represent
options (physical delivery	providing traders with	a percentage of the total
vs cash settlements,	more «safety» than the	contract value (typically,
delivery location, etc).	OTC market.	2%-10%).

3. PROFIT DIAGRAMS

Position: (buy) long futures

Profit

Futures price







Underlying price

3. PROFIT DIAGRAMS

Position: (sell) short futures



As can be seen, an investor with a **short futures position** is in the positive profit zone if the price of the underlying security remains below the agreed futures price.

4. ADVANTAGES & DISADVANTAGES

Advantages

Low margin

Usually, futures contracts offer a relatively low-cost profile, since the commission charged for futures trading are small when compared to some other type of instruments.

Liquidity

Most futures markets provide investors with a comfortable level of liquidity, particularly when trading commodity / indexes futures.

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Hedging possibilities

While often used as speculation tools, there are also very efficient hedging strategies to be built on futures contracts. Indeed, it is often the case with commodity futures, which serve as useful tools for reducing exposure to the risk of, for example, oil or corn price fluctuations.

Disadvantages

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Leverage risk

Investors must be very careful when trading futures with high leverage, which can lead to very rapid changes in futures prices.

Partial hedge

Since futures contracts are standardized products with fixed terms, investors can often only hedge part of their portfolio.

Lack of control over unexpected events

Unexpected events such as natural disasters or geopolitical conflicts can cause significant disruptions in the future market.

OPTIONS VS FUTURES

1. KEY DIFFERENCES

	OPTION	FUTURES
OBLIGATION OR RIGHT	Right Options give the buyer the right, but not the obligation, to buy or sell the underlying asset.	Obligation On the contrary, the buyer / seller of a futures contract is legally forced to buy / sell the underlying asset.
STRIKE	Written in the contract	Set by supply/demand
PRICE	The strike price is specified at time 0 and is written within the contract. It cannot be changed over the life of the option.	The delivery price depends on the supply and demand for the underlying asset, and therefore is not known in advance.
PRICE OR PROCEEDS	Upfront	Margin requirement
	The buyer pays the seller an upfront payment called «premium».	Initial margin, mantenaince margin and daily cash settlement.
LOSS POTENTIAL	Limited	Unlimited
	The maximum loss is the price paid for the option if you are a buyer. If you are a seller, the risk is unlimited.	There is no limit to the potential loss incurred.

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Bloomberg

FINANZ und WIRTSCHAFT



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- Most comprehensive trading platform on the market
- Multilingual customer support
- Training and education with online webinars
- High-performance mobile applications
- International Group listed on the SIX Swiss Exchange (SIX:SQN)



LE TEMPS

Rene Zürcher Zeitung

