

# FAIR VALUE RE-DESIGNATION

EQUITY DERIVATIVES



## **FAIR VALUE AND REDESIGNATION EXPLAINED**

When a company makes a takeover offer for another company, the takeover offer will usually be in shares, in cash, or a combination of both.

### **WHAT HAPPENS TO MY DERIVATIVES WHEN THE UNDERLYING SHARES ARE SUBJECT TO A TAKEOVER BID?**

When a company makes a takeover offer for another company, the takeover offer will usually be in shares, in cash, or a combination of both.

#### **Re-designation of the derivatives when the offer is in shares**

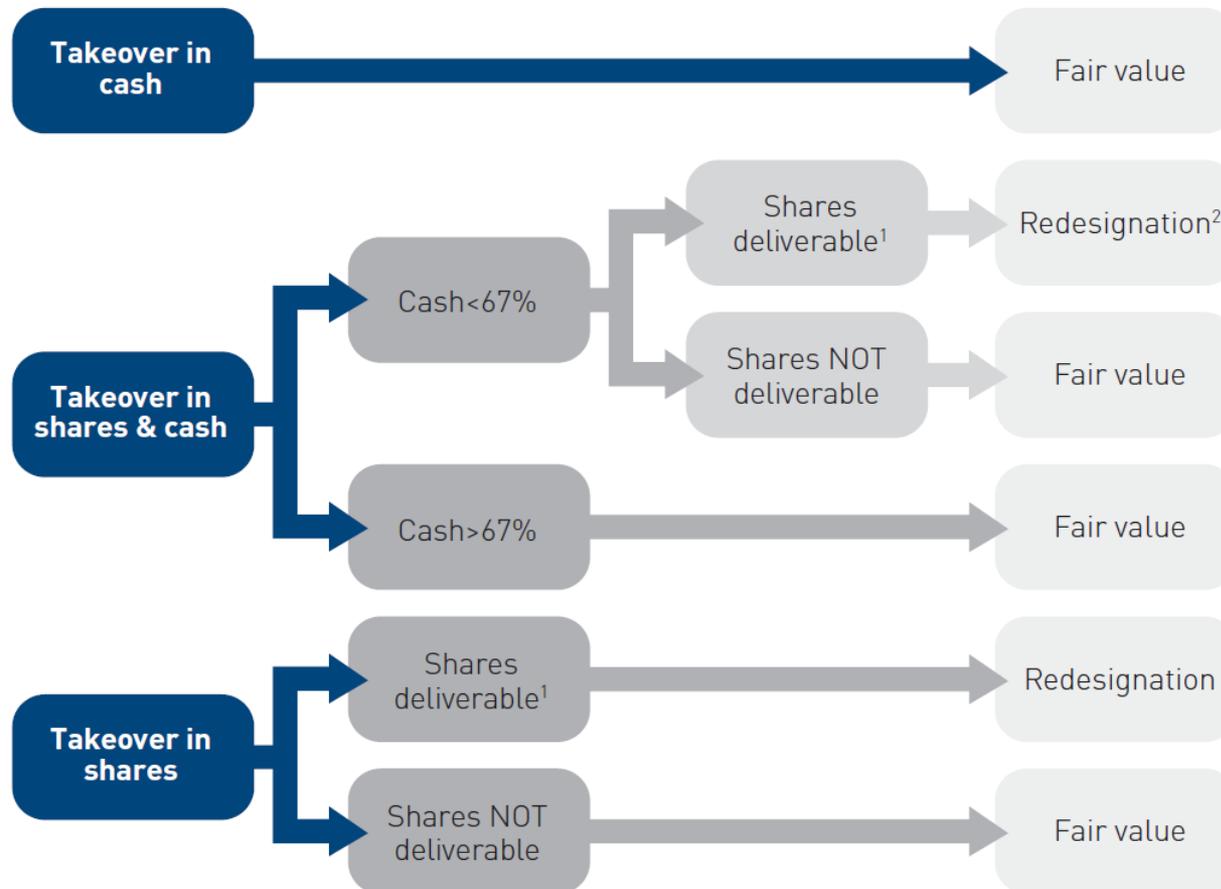
When company A makes a takeover offer for company B, solely in shares. The derivatives are re-designated as derivatives based on the shares of company A, using the exchange ratio of the bid. Re-designation can only take place if the shares<sup>1</sup> of the offering company A are deliverable in the domestic market.

#### **De-listing of the derivatives and settlement at Fair Value when the offer is in cash**

When company X receives a takeover offer from company Y, solely in cash. The derivatives listed on company X cannot be continued. As soon as the offer becomes effective, the derivatives will be de-listed. The derivatives are then settled in cash, using the Fair Value method. This method preserves, besides the intrinsic value, also the remaining time value.

## Other situations

The Fair Value method is also used when the cash component represents more than 67% of the total consideration of the offer, and when the takeover offer is in shares which are not deliverable in the domestic market.



1 In the UK market, the deliverable could be in Crest Depository Interest (CDI) form.

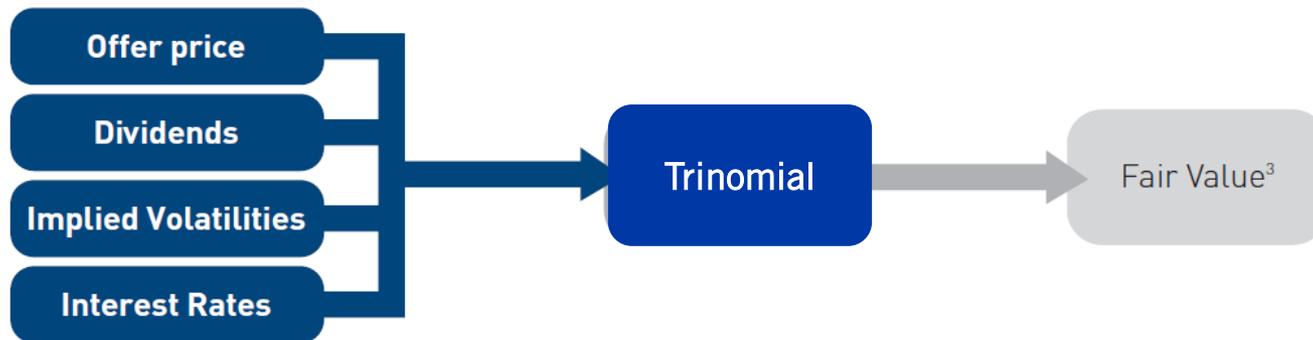
2 Please note that the ratio method is used to replace the cash element with shares.

## Fair Value Method Explained

Fair values are calculated using the Trinomial option valuation model.

The necessary inputs to calculate fair values using this model are:

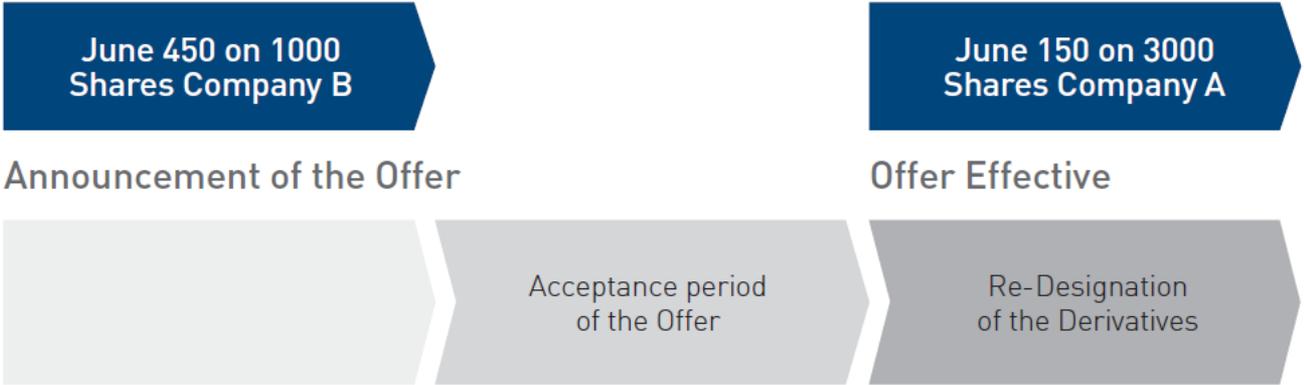
- The price of the takeover offer
- Interest rate (i.e. Overnight Index Swap, the applicable rate for the remaining life time of the option)
- Dividend forecast by an independent provider, i.e. “Markit Dividends”
- Implied volatilities for each option series, determined on the basis of the daily closing prices of these series, 10 days prior to the announcement of the offer



<sup>3</sup> Fair Values are calculated for each series and take into account strike price, remaining lifetime and the option style (European or American) and type (call or put).

# Re-Designation Example

Company A takes over company B, whereby shareholders receive three shares in company A for each share in company B, the derivatives listed on company B are re-designated and will continue to trade with the company A shares as underlying value. The original lot size is multiplied by three and the exercise prices of the options are divided by three.



## Fair Value Example

When company X takes over company Y, whereby shareholders receive €50.00 for each share held in company Y, the derivatives will be de-listed and settled at Fair Value, using the implied volatilities that are based on the closing prices of these series 10 days prior to the announcement of the offer.

