

## Interactive Calculators for Internet Websites

### Background

The use of the Internet for financial trading has pushed the main on-line traders to consider the interactivity with the user as one of the most important key factors of success.

For this reason the production of calculators available on Internet websites is required. These technologies are excellent decision support tools for users and, at the same time, are attraction elements for the website.

### Interactive Calculators

Interactive calculators are easy calculation tools that allow one to measure a series of variables related to a specific financial instrument.

### The performances

The calculator runs through an exchange of information between the customer's and FMR's facilities. Particularly the customer website satisfies users' requirements by taking data and information from its databases as well as from FMR Consulting's databases. Available data usually is updated periodically using technologies that provide real time data. All calculations made to measure results are performed using FMR3000 libraries. The method chosen to link the customer's website and FMR Consulting's web server includes the exchange of XML files using the HTTP protocol.

FMR Consulting organized the technical features to allow calculators to operate and delegated other companies to build the graphical interface and to integrate the calculator with the customer's website.

### The advantages

Calculators available on-line contribute many advantages to the users as well as to the websites that show them. Particularly, calculators are tools that use very complex calculation models and evaluate very sophisticated financial instruments, but inexperienced users can easily use them. Moreover, being placed on an Internet website, they are available to a large number of potential users and, consequently, if they are well structured, increase website contacts and encourage the subscription of the offered products.

### Forward Exchange-rate Calculator

It applies to corporate users who have to plan or simulate the use of forward exchange-rate contracts related to a series of future flows in order to verify the convenience of these activities with regard to the budget.

### Covered Warrant Calculator

It applies to private investors who wanted to use these financial instruments. This tool allows one to calculate implicit volatility, "greeks" and to make scenario analysis.

### Bond Calculator

It applies to bond investors and offers a series of financial scenario calculations and graphics that allows one to evaluate and to compare different securities.

### FX Options Calculator

It is an exchange-rate options calculator. It supports Plain Vanilla options as well as exotic ones.

### Mortgage Calculator

It lets the user know the main elements of a possible mortgage. In addition to the variables usually related to the instruments, it calculates the economic benefit of writing out a new loan compared to rescheduling the existing ones.

### Cap and Floor Calculator

The calculator applies to private and financial operators who are interested in using complex instruments such as cap, floor and zero-cost collar.