FIDA for

RISK MANAGEMENT

ENGINE SERIES

Risk statistics computing and monitoring for financial instruments and portfolios

Data, Analysis and Software for Finance Specialists

FIDA Finanza Dati Analisi

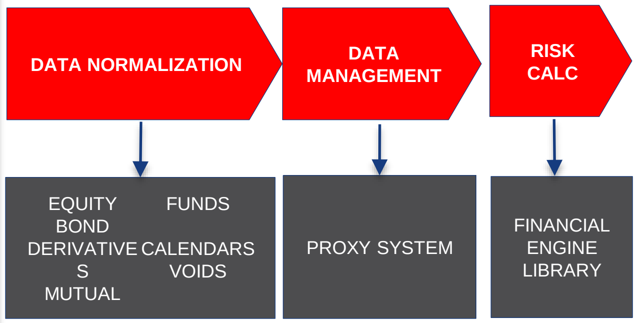
FIDA INFORMATICA

RISK MANAGEMENT

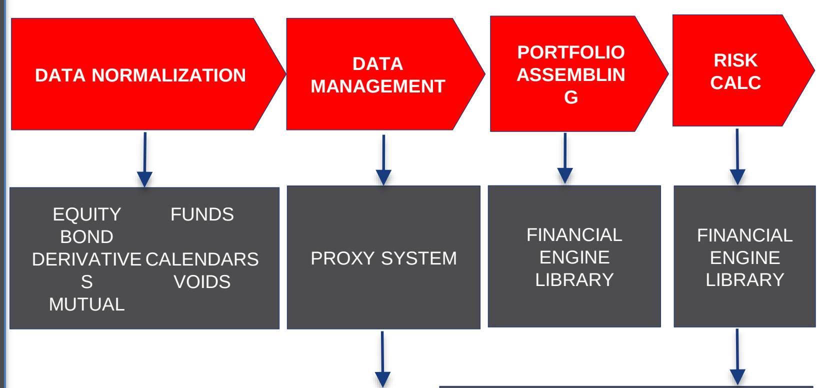
Risk statistics computing and monitoring for financial instruments and portfolios

Workflow

Financial Assets



Portfolio Analytics



Fida Proxy System

Every financial instruments has an associated proxy that extends its time series

Methodology has a hierarchical structure of representative indices (proxies) with descending specificity. We join the historical series taking in consideration progressively less representative indices until the minimum required length is reached. This system warranties that there is always an answer to the time series demands.

Every instruments has its own category and specific treatment.

Computed Risk Metrics

- ✓ Variance and volatility (standard deviation)
- ✓ Annualized volatility (standard deviation)
- ✓ Skewness
- ✓ Kurtosis
- ✓ Excess kurtosis
- ✓ Confidence intervals for the average return
- ✓ Correlation coefficient
- ✓ Value at Risk (VaR)
- ✓ Expected shortfall (ES) or conditional VaR
- ✓ Downside risk
- ✓ Annualized downside risk
- ✓ Maximum drawdown
- ✓ Shortfall probability
- ✓ Semi-deviation
- ✓ CAPM ***(full set)***
- ✓ Quadratic CAPM ***(full set)***
- ✓ Gain/Loss
- ✓ Gain/Loss ratio
- ✓ Black Traynor ratio
- ✓ Tracking Error ***(full set)***
- ✓ Risk Adjusted Performance Measures ***(full set)***
- ✓ Fama decomposition ***(full set)***
- ✓ Bull, bear indicators
- ✓ Volatility Cone

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RISK MANAGEMENT

✧ **Risk Clustering**
We can compute the probability of scenario realizations even for complex instruments

✧ **Monte Carlo Var method**

✧ **Portfolio building**

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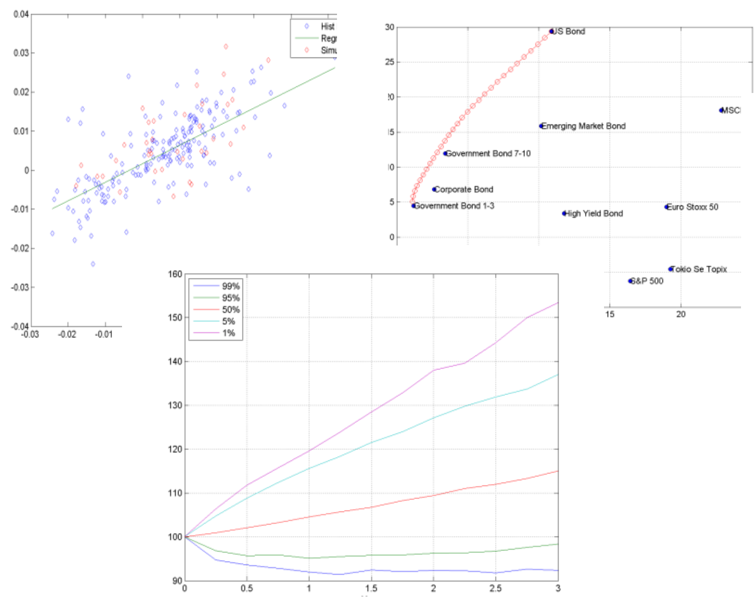
Monte Carlo Simulation

from theory to practice



Clients & Cases

ZENIT SGR
SOCIETÀ GESTIONE RISPARMIO

- **Mifid compliance e risk management ex-post for mutual funds and managed accounts**
- **Every night we receive all of the portfolios and perform risk calculations and limit checks.**
- **Fida is in charge even in data management service to verify no data missing or data errors are present.**
- **In case of missing data an external – on demand connection let us integrate data and complete computing.**
- **The engine at hte end compute volatility and var.**
- **Risk manager receive reporting on daily basis and alerting.**

copernico

- **Use FidaWorkstation completely integrated with backoffice data of portolios.**
- **Every statistics and Mifid verification is performed onboard.**

BCC Servizi Bancari Associati

- **Servizi Bancari Associati – SBA, provides different backoffice services to 47 banks.**
- **Final customers – the banks asked for complete reporting services from FidaWorkstation, together with performwence and risk calculations on every portfolio coming from the backoffice services.**

FIDA, your partner

Flexibility, tailored solutions
indipendence and expertise
more than 20 years in financial data management
and FinTech project development

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