OSL Risk Management

Risk Management Products & Services

Advanced Analytics Software and Technologies for Risk Analysis and Decision Making Support

OSL Risk Management is a software, training, and consulting business, specialising in state-of-the-art decision and risk analysis tools and techniques. We help clients to analyse projects and make decisions so that they can identify, quantify, value, hedge, mitigate, and diversify risk, creating new business opportunities.

We offer 20+ advanced analytics software and IT solutions, plus modelling standards for risk management, corporate decisions, financial and investment strategies, project management, R&D, risk analysis, and economic and financial analysis.

Our training programmes and webinars (in-company and open courses) help you to further develop necessary skills and competencies to successfully apply risk management in practice. In turn, this allows you to deal with the most common concerns faced by a business:

- How do we consider risks in projects and decisions?
- Can we value and rank our strategies and options under risky environments?
- Once we understand what risk is, how can we model and quantify it?

Our products and services have been implemented by thousands of users across several sectors, including Oil and Gas, Banking and Insurance, and Consulting Services.

OSL Risk Management offers analytics, solutions, and expertise to businesses worldwide, helping clients to make informed decisions in highly complex or uncertain environments.

Clever Thinking®

Leading Products Available

Risk Simulator

It is a powerful Excel add-in software used for applying simulation, forecasting, statistical analysis, decision trees, econometric analysis, and optimization in your existing Excel spreadsheet models. Risk Simulator was developed specifically to be extremely easy to use. For instance, running risk simulations is as simple as 1-2-3 (set an input, set an output, and run); and performing forecasting (i.e., Auto-econometrics, GARCH models, Stochastic Processes, Time-Series, Multivariate analysis, and so forth) relies on simple clicks in the software. Users are more focused on the analysis, reports, and numerical results.

Real Options SLS

It is standalone software with Excel add-in for analyzing and valuing real options, financial options, exotic options and employee stock options. With Real Options SLS, all inputs could be incorporated into custom spreadsheet models, allowing creating your own “à la carte” fully customized models, where all the mathematical equations and functions are visible. Consequently, option valuations and results are easier to understand and explain, especially, allowing users valuing to financial and real assets, quantifying flexibility, and mitigating uncertainty.

Modeling Toolkit

Modeling Toolkit is a unique technology that comprises over 1100 advanced analytical models, functions and tools, and about 300 analytical model Excel/SLS templates and example spreadsheets covering the areas of risk analysis, Six Sigma valuation, Decision Analysis, simulation, forecasting, Basel II and Basel III risk analysis, debt analysis, credit and default risk, among other statistical models.

ROV Biz Stats

ROV BizStats is an applied statistics toolkit that comprises over 170 business intelligence and business statistics methods for the day-to-day statistical analysis. It includes Charts (2D/3D Area/Bar/Line/Point, Box-Whisker, Pareto, Q-Q, Scatter), Distributional Fitting (Akaike, Chi-Square, Kolmogorov-Smirnov, Kuiper’s Statistic, among others), Generalized Linear Models (Logit, Probit, and Tobit), Data Diagnostics (Autocorrelation, ACF/PACF, Heteroscedasticity, Descriptive Statistics), Forecast Prediction (ARIMA, Fuzzy Logic, GARCH models), Econometric Analysis, J/S Curves, Neural Network, Time-Series, ANOVA, Multivariate Analysis, and so forth.

ROV QuanData Modeler

The ROV QuanData Modeler (QDM) is used for analytical data crunching and modelling linked to large datasets at extreme high speeds. This software comes in three separate modules: 1) ROV Quantitative Data Miner (QDM) with about 150 methods for running Data Modelling and Analytics, Forecasting, Simulation, Data Computation, and Charts. 2) ROV Optimizer for running fast static, dynamic, and stochastic optimization with a large number of decision variables and restrictions. 3) ROV Valuator, with over 600 closed-form, partial differential, lattice and analytical models and mathematical functions.

ROV PEAT

Project Economics Analysis Tool (PEAT) is an IT solution to perform an integrated risk management analysis on corporate investments and financing strategies (Dynamic Discounted Cash Flows). PEAT's users can introduce multiples assumptions, auto-generate cash flow statements on multiple projects, obtain KPIs and financial metrics (NPV, IRR, MIRR, PP, DPP, ROI), and run risk simulations and sensitivity analysis. As information systems, PEAT compares multiple projects; draws multiple investment pathways, implements advance forecasting and real options valuations, optimizes the portfolio subject to multiple constraints, and presents the results in management dashboards and reports.

ROV CMOL Risk

CMOL Risk is an IT solution to perform comprehensive analysis for banks on credit, market, operational, and liquidity risks. CMOL Risk takes all of our advance risk and decision methodologies, and incorporates them into a simple-to-use and integrated software application used by small and midsize banks. It simplifies the risk-based Basel II and Basel III requirements providing to managers, shareholder and stakeholder powerful analytics with user-friendly results and compliance reports.

ROV Enterprise Risk Management

Enterprise Risk Management (ERM) performs qualitative and quantitative enterprise risk management on firms' risk registers and events. ROV ERM helps users to: 1) enter-save multiple risk registers to generate Key Risk Indicators (KRIs) by risk divisions or other taxonomies (i.e., locations, products, activities, process, and departments). 2) Assign risk to supervisors and managers. 3) Create risk dashboards, reports and diagrams. 4) Perform and run risk controls on KRIs. 6) Perform risk forecasts and sensitivity analysis on quantitative risk metrics. 7) Run risk simulations on risk metrics and obtain risk reports. 8) Encrypt data-files for high-level of security.

ROV Project Management

Project Management (Cost and Schedule Risk) allows users drawing project pathways (linear or complex-parallel tasks, and recombining projects). According to the latest project management requirements and methodologies, users can identify critical paths, model and estimate risks on cost and schedule through advance simulations and sensitivity analysis, determine probabilities of cost-schedule overruns, and compute cost-schedule buffers at various probabilities of completion.

ROV PEAT Oil And Gas

PEAT Oil and Gas performs advanced analytics and models for oil and gas industry on analyzing the economics of oil field reserves, availability studies, project evaluations, oil recovery analysis based on uncertainty and risks analysis, as well as generating oil-well–specific type curves and economics. Therefore, PEAT Oil and Gas integrates all the capabilities of PEAT to perform an integrated risk management analysis on corporate investments and financing strategies (Dynamic Discounted Cash Flows).

ROV Goal Analytics

Goal Analytics allows managers and practitioners estimating, developing and maintaining corporate sales goals. It contains a Web-based SaaS and desktop-based PEAT module, focused on the creation and use of goals for a more accurate and sustainable sales performance (sales forecasting, goal deviations, probability of hitting corporate revenues, ROI, sales pipeline analysis, and other sales-based metrics analysis).

ROV Knowledge Value Added

Public Sector Analysis (Knowledge Value Added) models government and non-profit organizations' value, value to society, or intangible value using both the Knowledge Value Added (KVA) methodology and market comparables to identify and monetize such projects and assets.

ROV Lease vs Buy

ROV Lease vs Buy runs lease versus buy analysis, compares capital and operating leases with interest payments and tax advantages, values lease contracts from the point of view of the lessee and lessor, and generates complete cash flows to compute the net advantages to leasing vs buying under risky and uncertain environments.

ESO Valuation

It allows decision makers valuing employee stock options (ESO) and their expenses associated using the same software the Financial Accounting Standards Board (FASB) uses to generate its FAS 123R examples and recommendations. ESO helps to combine thousands of assumptions and inputs to compute the fair value per option; for example: share options granted, employees granted options, expected forfeitures per year, share price at the grant date, exercise price, contractual terms (CT), interest rate, and expected volatility, and so forth.

ROV Modeler ROV Optimizer ROV Valuator

It is an integrated IT platform (desktop or server), which several advance analytics' modules, to clean and filter data-sets, run individual or multiples models on specific schedules, provide advance methods of variable mapping to extract and downloading data (including data fitting, distributional assumptions and simulations) at very high speeds. The implementation of this full comprehensive IT platform needs to include consulting and training.

Risk Simulator RUNTIME

Risk Simulator Runtime is the FREE* basic runtime version of Risk Simulator 2012 to 2016. In the full version of Risk Simulator, you can set up and run advanced simulation, forecasting, analytics, and optimization. Runtime, however, is a scaled down version that can only run simulations and optimisations on models that have been previously set up using the full version.

The following products are not available as a download.
Please contact us for further information and a demonstration.

ROV LSRisk Optimiser

ROV LSRO is both a standalone tool written in C++ for the purposes of performing large-scale optimization, as well as a set of DLL or dynamic link libraries that can be called from other proprietary software tools (C++ and C#.NET software). LSRisk Optimiser can be used to run hundreds of thousands of decision variables in linear and nonlinear models.

ROV Software Development (SDK-OEM)

SDK-OEM is a technology for large customized projects, where the analytical code base SDK for C# .NET AND C++ as it appears in any of our other software and ROV Modeller software is available for OEM and SDK deployment into your own proprietary software tools.

ROV Compiler

ROV Compiler is a technology to compile and encrypt models, giving military-strength protection. With this software, users can assemble their existing Excel models into license-controlled executable EXE files. ROV's patented methods can be used to encrypt and lock up the intellectual property and mathematical algorithms of the model, and issue hardware-controlled and timed licenses to the purchaser's own users or customers.

ROV Extractor ROV Evaluator

ROV Extractor & ROV Evaluator software is meant to be used inside of Microsoft Excel 2007 to extract an existing model into pure mathematical relationships and code such that the model can be run outside of Excel. With this software, all of the business intelligence and relationships are maintained but will no longer be visible to the end-user, allowing the model creator to safely and securely distribute the model without losing control of any intellectual property or company secrets.

ROV Dashboard

ROV Dashboard help companies to create and set companies' reports, charts and tables that are highly intuitive to monitor businesses and support the decision-making process. Our final dashboards are protected by login and password encryption using a 2048 bit RSA encryption, giving military-strength protection and implemented via consulting projects on a corporate server with multiple users or utilised as a standalone software application on a desktop computer. This product requires consulting and training before implementation, and the typical implementation is on a server-based environment.

ROV Web Models

ROV Web Models to help companies to create and set web models of ANY of our software applications and technologies (see our list of OSL Risk Management products or visit our website www.oslriskmanagement.com). ROV WEB MODELS are purely IT development and consulting projects, where companies can protecte their tecnologies by login and password encryption using a 2048 bits RSA encryption (more powerful and secure than military-strength protection).

ROV Healthcare Economics

ROV Healthcare Economics (HEAT and REJ) runs economic and financial analysis on healthcare strategies in private and public hospitals, health insurance companies. For been one of the leading technologies to model and value healthcare strategies under the U.S. Affordable Care Act. Therefore, HEAT provides estimations for employer-sponsored healthcare, makes use of employee-census data or company-specific information to perform rapid economic justification (REJ) of each option by simulating its high-level inputs (financial and non-financial information).

We are confident that once you start using our tools, they will become an indispensable part of your daily operations and decisions support. Using our Software Development Kit and customised Visual Basic for Applications (VBA), our IT solutions and software are available for deployment into your own proprietary software tools.

Our models are customised to the client's specifications and can be used, royalty-free, throughout the corporation, providing a tailored modelling standard for your firm. We also offer academic licenses for professors, researcher, lecturers and their students in the field of risk analysis or other associated courses using our products.

Additionally, OSL Risk Management brings to the UK and Europe an advanced CQRM (Certified in Quantitative Risk Management) offering in a joint venture with the International Institute of Professional Education and Research (IIPER) and Real Options Valuation Inc.

Market Competitors

Our stand-alone products and IT products are sold in more than 42 countries, with business models that integrate software, training, consulting and support.

To learn more about what OSL Risk Management can do for you, please arrange a meeting or demonstration by emailing info@oslriskmanagement.com

For further details, pricing, quotes, special requirements and trial versions, please contact:
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