

RM software tools – Market overview – last update 22 jan. 2006

Disclaimer:

This list is provided as a free service to the reader, it is not meant to be exhaustive,. The fact that a product is listed here is not an indication that Pro Temporis has evaluated it nor that we recommend it. The descriptive text is generally taken from the vendor's own product literature. The buyer has the ultimate responsibility to ensure that the product is suitable for its intended use. Please follow the links to the vendor pages to obtain more detailed information on a particular product.

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Enterprise Risk & Operational Risk Management tools

Active Risk Manager (ARM), by Strategic Thought Group plc (London)

<http://www.strategicthought.com/wps/portal/arm>

1. Features

A base tenet of Active Risk Manager is to implement processes of an enterprise, integrate with its existing systems and do so in a highly secure manner. For this reason, Active Risk Manager supports international risk management standards and integrates into industry leading enterprise tools

2. Supported Standards

Active Risk Manager can reflect recognised standards and guides including: COSO Enterprise and Control Framework's, BS6079 Parts 1-3, IEC 62198, PMIBoK, APM, Project Pathway, Turnbull Report, RAMP, AS/NZS 4360:1999, CAN/CSA-Q850-97, PRAM, MoD/CA/DoD Guidelines, LGA/DTLR/SOLACE, Common Defense Guidelines.

3. Integration

Active Risk Manager integrates with project planning, requirements management, business process modeling, and communication tools. We currently integrate with following application types: Project Management, Data Migration, Process Modelling, Requirements Analysis, Shared Environments, Reporting, Email Communication

4. Sales price

Licence sales span between UK£20,000 and UK£1 million. Support and updates, including new releases, are charged at 18% of the licence fee per annum

GAIN Risk Management, by AIM (Austria, Switzerland, the US, Hong Kong or France)

<http://www.aim-sw.com/products/gainriskmanagement/>

AIM is specialised in creating software solutions for financial markets

GAIN Risk Management focuses on the quality of upstream or downstream processes to move from pure risk analysis to efficient risk control.

1. Areas of application

- **Market Risk Management:** Calculate Value at Risk + other risk and performance measures | Attribute specific risk components | Easily switch valuation currencies, benchmarks and yield curves | Actively identify and steer risk exposures.
- **Credit Risk Management:** Analyze the influence of term structure effects | Support for JPMorgan CreditMetrics® and CreditRisk+ | Define custom yield curves and apply shocks to yield curves
- **Operational Risk Management:** Basel II compliant operational risk module | Definition and monitoring of KRI and mitigating actions | Data quality checks | Workflow control and exception handling | Provides assistance for SOX compliance
- **Pricing / Mark-to-market:** Compute theoretical prices with extended support for derivative instruments and structured products | Define proprietary benchmarks using model portfolios or synthetic instruments and baskets
- **Asset Allocation:** Assign positions to portfolios using Boolean operators | Extract user specific reports and store allocation definitions for further use
- **Simulation:** Apply scenarios, stress tests and simulations to portfolios and groups | Use Monte Carlo simulations to analyze the foreign exchange and price effects of buy and sell transactions | Supports Boolean operators for defining groups.
- **Workflow Management:** Define conditions and rules for routing and archiving data and reports
- **Exception Handling:** Clean and reconcile several data sources | Define the desired exception handling and quality checks for faulty data
- **Limit Management:** Use flexible triggers and alarms if limits or thresholds are broken | Initiate workflows (e.g. notification by e-mail) | Support volume, performance and risk limits.

- **Data Visualization:** Use consolidated out-of-the-box or customized risk and performance reports and enrich them with data from your internal applications
2. Supported methods
 - **Basel II:** Revised Standardized Approach (RSA) | Foundation IRB | Advanced IRB | Basic Indicator Approach (BIA) | Standardized Approach (Operational Risk) | Advanced Measurement Approaches (AMA)
 - **Analyses:** Present Value Analysis | Maturity Ladder Analysis | Time Horizon Analysis | Key Rate Analysis | Cashflow Analysis | Cashflow Projection
 - **Statistical:** Binomial and trinomial tree calculations | Multi variable analysis | GARCH | Backtesting
 3. Supported measures
 - **Value at Risk:** Variance/Covariance | Historical | Monte Carlo (GARCH) | Risk Metrics
 - **Risk:** Specific Risk | Risk Aversion | Volatility | T-Statistics | Implied volatility
 - **Skill:** Information Coefficient | Value Added | Information Ratio
 - **Fixed Income:** Price | BPV | Duration | Convexity | Modified / Price Duration | Accrued
 - **Yield:** Fast yield calculators | AIBD | ISMA | Moosmüller | Braes Fangmeyer | IRR
 - **Options:** Price | Delta | Gamma | Rho | Theta | Vega | Cost of Carry
 - **Benchmarking:** Alpha | Beta | Tracking Error
 - **Return:** Active + Specific Return | Excess Return
 - **Risk-adjusted performance:** Sharpe Ratio | Treynor Ratio
 - **Statistical indicators:** MAV | MACD | Stochastics
 4. Supported instruments
 - **Non-Derivatives:** Equities | Funds | Commodities | Currencies | Indexes | Interest rates | Swaps
 - **Bonds:** (Zero) Coupon Bonds | Convertible Bonds | Floaters
 - **Derivatives:** Futures | Forwards | FRA | Options | Warrants | Asian Options | Barrier Options | Binary Options | Compound Options | Quanto Options | Dual Asset Options | Collar Swaptions | Ratchet Options
 5. Formats and platforms (Import + Export)
 - Input and Output: Oracle | DB2 | MS-SQL | Informix | InterBase | Sybase | Access | ODBC | XML | ASCII | CSV | HTML | Excel, etc.
 - Reporting: User-specific reports | Formats: Print, Onscreen, Text, DB, PDF, HTML
 - System connectivity: OLYMPIC | GAIN Wrapper for other systems
 - Additional Modules: Further modules: Data Management | Reconciliation
 - Supported Scripting Languages: SQL | VBScript | JScript | Perl | Python | Delphi Script

Horizon, by JP Morgan and Ernst&Young

A Web-based, automated control self-assessment system. Horizon identifies and documents a broad range of business risks and analyses how these risks are mitigated, with a strong focus on the identification of control gaps and the creation and monitoring of action plans to mitigate risk issues. The Web-based design, coupled with self-distribution and self-administration capabilities, emphasises ease of use and quick start-up at bank offices around the world.

The makers say the tool is a substantial departure from traditional self-assessment approaches, which tend to focus on internal audit initiatives and control-centered questionnaires. Instead, Horizon focuses on business risks, and helps managers to mark out those risks that have been consciously accepted, and those that require attention. It allows central risk groups to monitor specific risk issues at remote locations and to see whether these issues are being resolved. Users can view graphical and text-based risk data from many dimensions, including risk category, organisational hierarchy and geographic location, and identify firm-wide risk trends. The makers claim the system is more robust, scaleable and platform-independent than many of its self-assessment competitors. The system has a

qualitative focus (risks are scored red, yellow and green), but offers trend analysis and forecasting capabilities. Ernst & Young says it is also generally compatible with many of the probabilistic (ie, quantitative) operational risk solutions, and that it can be integrated with other kinds of operational risk management tools. Features: automated and on-demand e-mail interface, which allows for the sending of queries on risk issues and enables automated management follow-up of open risk issues.

CARD@map, by Paisley Consulting

<http://www.paisleyconsulting.com/Paisley/basel-operational-risk.html>

Designed to help companies comply with Sarbanes-Oxley and the emerging Basel II operational risk requirements, and establish long-term corporate governance and risk management practices. These solutions offer the capacity for full control and Enterprise Risk Management - software for the future.

CARD[®]map software is designed to help organizations meet risk and control governance responsibilities including Sarbanes-Oxley and the emerging Basel II operational risk requirements.

It is an easy-to-learn, easy-to-use web-enabled software program that charts and monitors any facet of an organization's operation. It is a systematic approach that allows users to create an accurate and up-to-date survey of objectives, risks, controls, and residual risk status. It identifies problems, monitors process performance, assigns responsibility and prioritizes action items. Over time, an integrated database of loss history, risk exposures, controls, residual risk status, action plans and quality assurance work for an entire organization is built.

Highlights include:

- Reporter fields that alert and allow senior management to monitor significant control and risk issues and problems.
- Robust assessment scheduling capabilities and reminder calendars—particularly important for SOX 302 and 404.
- Ability to assign accountability for risk/control assessments, action plans and quality assurance work for SOX 404 audits and regulatory reviews.
- High impact, drill down graphs and custom reports.
- Ability to attach working papers and other documents directly or via easy to use URL links.
- Control and risk model flexibility – COSO 1992, COSO ERM 2004, CoCo, customized versions.

Isiman Risques, by Keyword (Montpellier)

[http://www.keyword.fr/sitekeyw/html_val/ru\\$45_.htm](http://www.keyword.fr/sitekeyw/html_val/ru$45_.htm)

About 40 customers in France (Banks, Industry, Public Sector)

RiskXplorer, by Pro Temporis (Brussels)

www.protemporis.com

RiskXplorer-SME is a collaborative, Web-based Operational Risk Management tool, mainly designed for experts as well as beginners in Risk Management. Using questionnaires and keyword-based search, users build their own risk register from a structured knowledge base, fed by professional and academic experts. In this knowledge base, each risk scenario is described as a logical suite of causes, dysfunctions, symptoms and consequences. The selected risk scenarios can be contextualised, assessed and treated, to produce an action plan. RiskXplorer complies with major Risk Management standards.

Algo Suite, by Algorithmics, (Toronto)

www.algorithmics.com

Algo Suite is an enterprise-wide risk management suite of solutions for market, credit and operational risk, as well as collateral and capital management, across the trading and banking books. Using Algorithmics' solutions, financial institutions can calculate the optimal risk and reward trade-offs to maximize shareholder value and comply with industry best practices and regulatory requirements. Algorithmics' success at measuring and managing risk is borne out through experience working with over 60 of the world's top 100 financial institutions.

Amadeus Compliance Process Control Solutions

<http://www.amadeussolutions.com/>

At the heart of the Basel II requirements for international credit-risk management is the need to have sound data behind customer identification and risk assessment. Information technology represents the greatest area of risk on an operational level for the successful implementation of Basel II compliance. Data quality and audit-ability is the cornerstone of an end-to-end global compliance solution.

To achieve compliance with Basel II requirements, organizations must establish a secure compliance framework consisting of integrated technologies specifically designed for secure, regulated environments. Basel II brings enhanced data and reporting requirements that require specific technologies to help achieve compliance objectives. Specific technological features necessary for Basel II compliance includes:

- Audit management
- Advanced data warehouse/storage management
- Integrated document/content management
- Custom report generation
- Business intelligence capability to consolidate data reports from different systems
- Audit trail capability
- Electronic or digital signature capability
- Search and retrieval
- Documented API's for interoperability with other financial systems

Agena Limited, by BayesRisk (£1.175)

www.agenaco.uk

Tool that allows managers to model operational risks using "Bayesian net" techniques. Each operational risk attribute becomes a variable in the model, which also makes use of "target variables" such as "financial loss". Each variable is awarded a probability distribution, which is presented graphically. Users can enter specific values for variables, whereupon all the risk probabilities are updated using a Bayesian inference technique.

Agena has worked on safety critical/business critical areas outside the financial industry. It is developing a generic modelling tool that is executed using a special-purpose, third-party Bayesian net modelling tool (Hugin). Agena says it will tailor the generic tool to suit specific organisations and specific types of risk, including building appropriate user interfaces. Bayesian modelling is seen by some researchers as the most promising way to analyse cause-effect relationships at the same time as quantifying operational risks.

Operational Risk software, by Amelia Financial Systems

www.ameliaco.uk

Amelia's operational risk software offers comprehensive operational risk management profiling, with full drill-down capacity and slice-and-dice reporting of risk. It uses the "control self-assessment" approach to gather data – that is, business units provide data on their own operations and controls. The system then consolidates this data to allow risk managers to compare results from different units and locations, or to generate a firm-wide operational risk profile. Business units can be benchmarked against each other or against themselves over a period of time.

London-based Amelia says its assignments include retailing and industrial organisations, as well as financial institutions. It claims its system conforms to all the latest regulatory requirements on corporate operational risk, including the UK's Internal Control Guidance for Directors on the Combined Code (Turnbull Report). Amelia has focused on building a practical risk assessment tool. But the company says its product provides an infrastructure that would support a wide range of approaches to quantitative modelling. It plans to link the system to more sophisticated modelling tools in the future, and is working on a database of industry-wide operational losses.

RiskPRiSM, by PricewaterhouseCoopers

www.pwcglobal.com

RiskPRiSM is a totally web-enabled application running under a browser that facilitates the comprehensive analysis and management of business and operational risk. It implements PwC's ORCA business risk framework, which helps organisations, business units, business processes or individuals to describe and prioritise their strategies and objectives and understand and manage the key risks that may prevent these objectives from being met. RiskPRiSM runs on Windows NT and 2000, Solaris, AIX and Linux operating systems and can use Oracle, SQL Server and Sybase databases. A standalone version is also available based on a MS Access database.

An organisation records in RiskPRiSM its organisational structure, its objectives at each layer of the organisation, the perceived risks inherent in these objectives and the controls in place to mitigate the risks. Employing a user-defined risk exposure matrix, RiskPRiSMTM analyses the probability and impact defined for each risk and aligns this analysis to the appropriate objective. Users are then able to view online heat maps analysing the risks inherent in the separate organisational units, risk categories and objectives. RiskPRiSMTM also allows users to record and monitor the actions they are carrying out to improve their control systems. The information recorded on these actions is used to display heat maps that simulate the risk exposure profile after the control improvements have been implemented. RiskPRiSMTM can also produce a variety of hard copy reports.

Operational Risks, by Searchspace

www.searchspace.com

Operational Risks is an "intelligent transaction monitor" that offers an enterprise-wide framework for profiling transactions that take place within enterprises and across the Web. The system can thus alert managers to various operating risks and opportunities. It makes use of specialist intelligent modules or "Sentinels" that can be deployed within high-volume and/or high-value/low-volume transaction environments. Because the framework continuously monitors transactions as they occur, Operational Risks adapts in line with the business and "learns" in real-time, reducing the need to amend preset rules.

Tools such as Operational Risks help management keep in touch with what is actually happening at the transaction level. Unlike most self-assessment systems, they capture what the enterprise and its customers, suppliers and employees are doing at a given moment. However, the system would form only one component – real-time transaction, process and activity monitoring – of a more comprehensive operational risk management system. Searchspace says it is targeting retail banks, investment banks, insurance companies and exchanges. It says the system's most obvious applications are for monitoring fraud, money laundering, continuous audit and general operational risks.

Project Risk Management

Intelligent Risk Exchange 1.0, by CSIRO (Australia's Commonwealth Scientific and Industrial Research Organisation)

<http://www.hearne.com.au/products/ire/>

Intelligent Risk Exchange is the first risk management software designed for concurrent engineering projects that links the entire project management process from product or project design, development, manufacturing to delivery. It is a dynamic web-based tool for project managers that helps minimise the risks in current and future engineering projects by learning from previous project successes and failures. Due to the high interdependency of tasks in multi-site projects, a failure of one task may propagate throughout the project network, causing a project failure. The software ranks risks by likelihood and consequence, and suggests mitigation strategies based on lessons learned from previous projects and best practices.

WelcomRisk, by Welcom (Houston, London)

<http://www.welcom.com/content.cfm?page=490>

Structured means of identifying, tracking and reporting project risks and opportunities. Powerful risk modeling and reporting functionality, combined with an easy and intuitive interface, delivers a risk solution for the whole project team. Fully web-based, its flexible integration capabilities and tight security controls provide companies with a better solution for enterprise risk management.

Riskradar, by American Systems Corporation (also exists at "Enterprise Risks" level)

<http://www.ascriskradar.com/>

Risk Radar is a Risk Management database from the Software Program Managers Network (SPMN). Its purpose is to help project managers identify, prioritize, and communicate project risks in a flexible and easy-to-use form. Risk Radar provides standard database functions to add and delete risks, as well as specialized functions for prioritizing and retiring project risks. Each risk can have a user-defined Risk Management plan and a log of historical events.

@Risk for projects, by Palisade (also exists as a Decision Support tool)

<http://www.palisade-europe.com/>

@RISK is an add-in to Microsoft Excel. It is integrated with your spreadsheet, adding risk analysis, to your existing models. @RISK uses a technique known as Monte Carlo simulation to show you all possible outcomes.

RISKMAN, by Risk Management Expert System

<http://www.eas.asu.edu/~sdm/merrill/riskman.html>

Riskman is intended for use by software engineers with minimal software project planning experience who are interested in planning a small team software development project.

RiskTrack, by RST

<http://www.risktrak.com/feature.htm>

RiskTrak is specifically designed to effectively track identified risks and risk mitigation actions, then communicate mid-course adjustments to the project team.

S:PRIMER, by GRafP Technologies (Montréal, Toronto)

<http://www.grafp.com/fr/grafp.html>

Targeted to organizations in the information technology sector.

PRIMER stands for “Probabilistic Risk Identification, Mapping and Evaluation”

Web-based product line for predicting what can go wrong, identifying the root causes of potential failures and recommending the best countermeasures (SEI-CMM based).

Information Security Risks

OCTAVE® (Operationally Critical Threat, Asset, and Vulnerability EvaluationSM)

<http://www.cert.org/octave/>

OCTAVE is self-directed. A small team of people from the operational (or business) units and the IT department work together to address the security needs of the organization. The team draws on the knowledge of many employees to define the current state of security, identify risks to critical assets, and set a security strategy.

OCTAVE is flexible. It can be tailored for most organizations.

OCTAVE is different from typical technology-focused assessments. It focuses on organizational risk and strategic, practice-related issues, balancing operational risk, security practices, and technology.

OCTAVE-S also exists for smaller organizations (less than 100 employees)

Property Risks

NB. Insurance Cies proprietary tools are not described here.

Global Asset Protection, by GE Insurance Solutions

<http://www.gegapservices.com/>

The Global Asset Protection service provides solutions for a more cost-effective approach to loss prevention. We help to build a sound risk management strategy by enabling the customer to:

- Better understand his property risk potential
- Create a property exposure management strategy
- Implement property risk mitigation strategies
- Effectively represent your company to the insurance marketplace
- Train your staff and manage risk mitigation strategie

GE doesn't offer a software, but software-based services, with a tool allowing three things:

1) gapservices.com: central storage of documents (in MSWord or pdf) selectively accessible via UserName and PassWord, meaning that the Corporate customer can filter the types and quality of documents a viewer can see.

2) MyAnalysis: summary tables and charts of the information contained in the reports. MyAnalysis allows the customer to view the benchmark of his facilities without reading a single page of report. He can then focus on those locations that have an unfavourable benchmark.

3) RecResponse: Management of Improvements via the tracking and management of the Recommendations made by the auditors. This tool includes two-way communication with automatic creation of a trail of documentation from the moment the REC is issued until final completion; management of the completion process through the embedded milestone and deadline tracker; storage of completed RECS for statistical analysis purposes.

Health & Safety, HR risks

Intern Hygiëne Risico-evaluatie Systeem (IHRS), by Prebes

<http://www.prebes.be/ihrs.htm>

Één van de analyse- en evaluatiemiddelen is ongetwijfeld het IHRS, gebaseerd op een reeks van controlelijsten en een kwantitatieve en kwalitatieve evaluatie door het opnemen van de "Good Manufacture and Maintenance Practices" (GMMP) of codes van goede praktijk, naast de wettelijke voorschriften, is dit een verrijkt systeem, teneinde de kwaliteit van het welzijn op het werk en de kwaliteit van de productie of de dienstverlening te verhogen.

Safeguard, by Rivo Software

<http://www.rivo.co.uk/Products/Health-And-Safety/Safeguard.aspx>

With its step by step approach and extensive tool-set it's the ideal system for companies with branch networks or where a number of individuals are responsible for Health and Safety implementation

European Agency for Safety and Health at Work

http://osha.eu.int/good_practice

This site proposes numerous sector-specific or purpose-specific tools for the detection and the evaluation of Health & Safety risks.

Industrial Equipment risks

EFFECTs & DAMAGE, by TNO (Apeldoorn - NL)

<http://www.mep.tno.nl/software/Milieuv/Uitgebred/EFFECTSuitgebreiden.html>

For calculating the physical effects due to hazardous materials releases

- Calculate environmental risks
- Models for the efflux of fluids and gases, vaporization, dispersion, development of fires
- Database including physical properties of more than 100 hazardous chemicals

GoldSim, by Golder associates

<http://www.goldsim.com>

GoldSim is used to create computer models that simulate the performance of complex systems in business, engineering and science. In general, the purpose of such models is to simulate the future behavior of the system, and determine what can be done to improve its performance. These models are used to gain a diagnostic understanding of the system, ask "what if" questions about it, and evaluate alternative designs, policies, and plans. For example, a NASA research project focused on development of a new module for the software (the Reliability Module), that added features to the software to facilitate simulation of space missions, and applied the tool to several representative NASA missions.

Technical Risk Identification and Mitigation System (TRIMS), by BMP (free)

<http://www.bmpcoe.org/pmws/download/trims.html>

TRIMS operates as a process-oriented tool based on a solid Systems Engineering approach. Process analysis and monitoring provide the earliest possible indication of potential problems. Early identification provides the time necessary to apply corrective actions, thereby preventing problems and mitigating their impact. TRIMS is extremely user-friendly

and tailorable. This tool identifies areas of risk, tracks program goals and responsibilities, and can generate a variety of reports to meet the user's needs.

Validatool, by CyberConseil (France)

<http://www.cyberconseil.com/>

Le logiciel Validatool a été développé pour répondre aux exigences des Agences réglementaires en terme de Risk Based Approach tout en tenant compte des besoins de nos clients en terme de productivité, de réactivité et de cohérence globale des validations. Validatool supporte la méthodologie d'analyse de risque CVO-Risk Manager de CyberConseil et permet de donner du sens aux validations.

Basé sur la réglementation, les risques et la définition des processus, fonctions et composants, Validatool permet d'analyser un système et de justifier l'effort de validation.

Validatool a été conçu pour répondre aux besoins de validation et de revalidation des systèmes informatisés, automatisés et des équipements, qu'il s'agisse d'une validation prospective ou rétrospective.

Decision support tools

Analytica, by Lumina

<http://www.lumina.com/> (\$1000-\$10000)

Analytica is a visual tool for creating, analyzing, and communicating decision models.

You can express any uncertainty or risk as a probability distribution. Integrated Monte Carlo quickly propagates the uncertainties to find the uncertainty in the results. Powerful sensitivity analysis tells you what assumptions really matter and why.

Risk Calc, by RAMAS (Ecological & Environmental Software)

<http://www.ramas.com/riskcalc.htm>

Risk Calc supports [probability bounds analysis](#), standard [fuzzy arithmetic](#), and classical [interval analysis](#). Its applications are like those of Monte Carlo packages such as @Risk or Crystal Ball, but Risk Calc does not require you to specify precise details of statistical distributions and their dependency relationships when empirical data are lacking. Risk Calc makes new methods available for conducting distribution-free or nonparametric risk analyses. **The user** decides what information or assumptions should be used, and the software calculates bounding estimates of risks. Often these bounds can be shown to be the best possible. Using Risk Calc, you can do quality assurance reviews for probabilistic risk and safety assessments.

Decisioneering, by Crystal Ball (United States, United Kingdom, Germany)

<http://www.crystalball.com/> (€ 1.500)

Crystal Ball 7 Standard Edition is the easiest way to perform Monte Carlo simulations in your own spreadsheets. Crystal Ball automatically calculates thousands of different "what if" cases, saving the inputs and results of each calculation as individual scenarios. Analysis of these scenarios reveals to you the range of possible outcomes, their probability of occurring, which input has the most effect on your model and where you should focus your efforts.

For Six Sigma applications, capabilities metrics calculated with the simulation results let you better integrate simulation into your methodology.

ModelAssist (for @RISK and Crystal Ball), by Vose Consulting Risk Analysis Services (about £ 200)

<http://www.risk-modelling.com/software.htm>

Risk Analyzer, by Add-Ins.com (\$ 80)

<http://www.add-ins.com/analyzer/>

The Risk Analyzer works by doing Monte Carlo simulations

The R Project for Statistical Computing (free)

<http://www.r-project.org/>

R is a free, open source software environment for statistical computing and graphics. R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible. It compiles and runs on a wide variety of UNIX platforms, Linux, Windows and MacOS.

Environmental Risks

Human Health Risk Exposure Model, by the Risk Assessment Information System :

<http://risk.lsd.ornl.gov/>

Adaptive Risk Assessment Modelling System (ARAMS), by The U.S. Department of Defence and the Army

<http://el.erd.c.usace.army.mil/arams/>

Benchmark Dose Software (BMDS), by U.S. Environmental Protection Agency (EPA)

<http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=20167>

Computer-Aided Management of Emergency Operations (CAMEO), by EPA

<http://www.epa.gov/ceppo/cameo/what.htm>

The Vulnerability Self Assessment Tool™ for Water & Wastewater Utilities

<http://www.vsatusers.net/>

Financial Risks

We have not included this category in the scope of our investigations; however, a good overview of the tools for managing Credit- and other financial risks can found at:

http://www.plexxa.com/s/credit_risk_management_tools

Many tools “d'aide à la Décision Financière” also available at:

<http://cerefia.eco.univ-rennes1.fr/cerefia/logiciels/Default.htm>

Other specific areas, for which RM-tools are being developed

- Targeted Marketing and Campaign Optimization;
- New Methods for Personalization;
- Analytical CRM;
- Fraud Detection;
- Military Applications;
- Crime Analysis;
- Drug Discovery;
- Epidemiology,
- Clinical Medicine,
- Proteomics and Genomics,
- Mass Spectrometry
- Demographic Data
- etc.

Other information sources

- List of Risk Analysis, Assessment and Management Tools (PUBLISHED BY THE INSTITUTE OF INTERNAL AUDITORS)
<http://www.theiia.org/itaudit/index.cfm?fuseaction=forum&fid=207>
- Risk Management Specific Interest Group
<http://www.risksig.com/resource/tools.htm>
- Alphabetical List of Risk Management Products
<http://www.timberlinetechnologies.com/products/riskmgt.html>
- Operational Risk
http://www.financewise.com/public/edit/riskm/oprisk/opr-soft00_2.htm