

OptiRisk  
SYSTEMS



INVESTOR IN PEOPLE  
BS EN ISO 9000 : 2000

Help businesses capture value  
through optimisation and risk  
management solutions



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OptiRisk Systems is a UK-based company with a global reach that provides products and services for Optimisation and Risk Management solutions. OptiRisk serves customers across a number of business sectors including finance, defence, transportation and supply chain logistics.

## Our Mission

The mission of OptiRisk Systems is to be a global yet niche player and a leader in the provision of optimisation and risk solutions. Within OptiRisk Systems we foster a culture of research and team building thus empowering our staff to achieve their full potential. We are highly customer focused and motivate our staff to provide an excellent service, which matches the business needs of the clients.

We set out to achieve our mission through:

- Development of models, algorithms, software systems
- Acquisition and value added reselling of optimisation software and specialist applications,
- Utilising leading edge networking, computing and software technologies.
- Provision of services covering training and customised applications for a number of sectors including:
  - Finance
  - Utilities
  - Supply Chain and Logistics





## Products

OptiRisk Systems offers an extensive range of software for Optimisation and Risk applications. These include both our own products and third party products. Our software range includes Modelling Systems for Mathematical Programming, Optimisation Tools, and a number of Optimisation Software Suites. Whether you are an analyst, developer, or an optimisation specialist, we have the software to match your requirement.

Our state-of-the-art mathematical programming modelling systems all have seamless database connections. The optimisation inference engines are embedded and include Linear, Integer, Quadratic, and Integer Quadratic programming features. Our modelling systems are suitable for developing business analytics through rapid prototyping.

## Customers

OptiRisk has clients across a number of business sectors including defence, transportation, energy, banking, consumer electronics, insurance and government. Some of the industry leaders that rely on our products and services to power mission-critical applications are set out below:

- HBOS Plc/ INSIGHT (UK)
- UBS Investment Research (UK)
- Fidelity Investment Ltd. (UK)
- Deutsche Bank (UK)
- APT INC (USA)
- MOD (UK)
- UNILEVER (UK/Netherlands)
- US Coast Guard (USA)
- British Gas (UK)
- Southern Electric (UK)
- DTI (UK)
- Allocare (Switzerland)
- NATO (Belgium)

## Services

As a technology leader in the domain of optimisation and risk analytics, we offer software solutions and consultancy in the areas of:

- Portfolio Planning.
- Asset & Liability Management.
- Uncertainty and Risk Analysis/Modelling
- News Analytics in Finance
- Supply Chain Planning.

In addition, we offer services of rapid prototyping and training in the areas of:

- Algebraic Modelling Systems.
- Decision Analysis/Decision Support.
- Optimisation (Linear/Integer/Quadratic and Stochastic)
- Databases/Data Management.
- Scenario Generation and Simulation.
- Logistics Planning and Supply Chain Management.

Further, our competency and service offerings include:

- Customised Software development.
- Quality Assurance and Benchmark Testing.

## Partners

- IBM ILOG
- AMPL LLC
- GUROBI
- MOSEK
- Northfield Information Services
- RavenPack
- Xenomorph





## Products

### ✓ Modelling Tools

- AMPL
- AMPLStudio

### ✓ Solvers

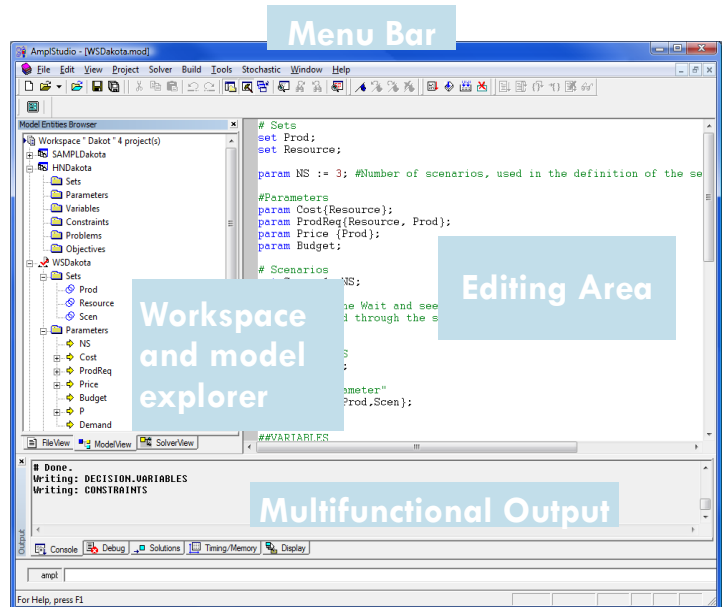
- CPLEX(Full Range with AMPL)
- FortMP (SSX, IPM, MIP, QP, QMIP)
- FortSP (Stochastic Solver: Benders & Stochastic Decomposition)
- MOPS

### ✓ Add-on

- FortMP (MEX file for MATLAB)

### ✓ Stochastic Extensions

- SAMPL/SPInE

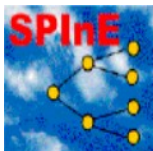
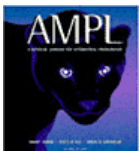
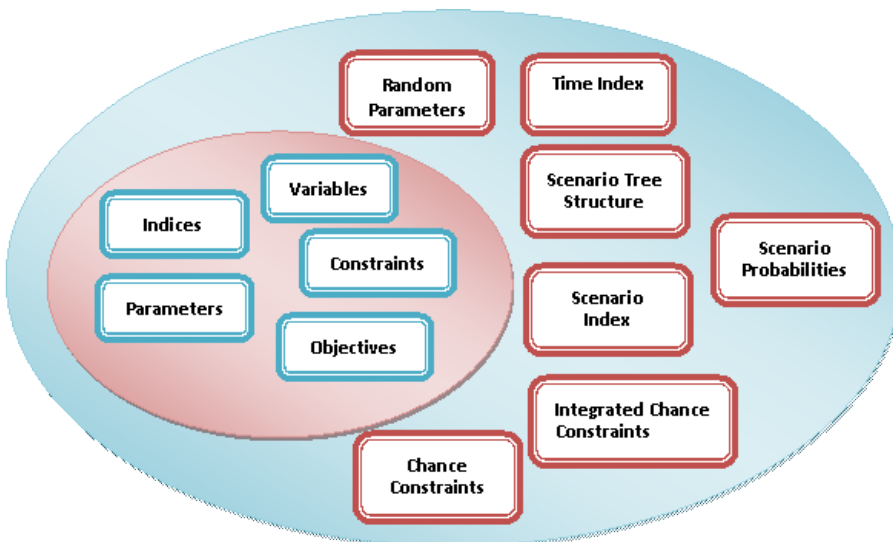


## Services

- ✓ MP Modelling
- ✓ MP Solver Tuning
- ✓ Uncertainty and Risk Analysis/Modelling
- ✓ Outsourced MP Modelling

## Training

- ✓ Linear and Integer Programming
- ✓ Stochastic Programming
- ✓ Quadratic Programming
  - ✓ Portfolio Planning
- ✓ Asset and Liability Management



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