

## The Knowledge-based Risk Management System

IREX<sup>®</sup> is a risk management system based on the Australia/New Zealand Standard on Risk Management (AS 4360) that caters to the complexities of managing multi-site concurrent engineering projects. IREX<sup>®</sup> captures the best practices as well as lessons learnt from previous and on-going projects. It provides hindsight for project managers to efficiently identify risks, assess or analyse risks, and effectively mitigate risks to achieve program goals. Information on the risk mitigation strategies and action plans are available in structured reports to project members and managers throughout all stages of projects.

### IREX<sup>®</sup>'s Functional Modules

IREX<sup>®</sup> consists of four main modules: **profile**, **identification**, **analysis**, and **mitigation & monitoring**.

**The Profile Module** aims to establish the project profile by collecting project background information such as the project personnel, budget, type, applicable risk policies, as well as information on suppliers, contractors, and clients. The collected information enables IREX<sup>®</sup> to formulate tailored risk models that are suitable for specific project profiles.

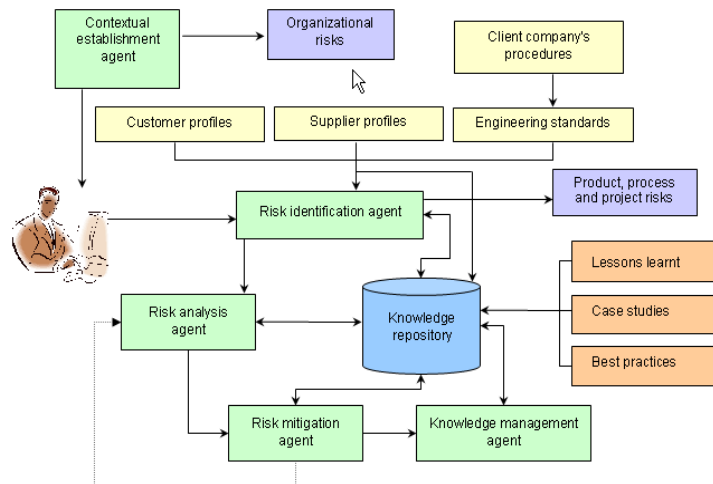
**The Identification Module** displays collections of questions that are relevant to the context of your project. In most situations, responses to these questions are determined through discussions with the stakeholders and/or team members of your projects.

Subsequently, **the Analysis Module** suggests consequence and likelihood values using these responses as well as the interdependencies between risk types and lessons learnt. You can override these suggested values where necessary.

**The Mitigation & Monitoring Module** extracts identified risks whose magnitudes are greater than a user-defined project-specific threshold. These risks are placed within your project's risk register where you have access to a myriad of tools designed to help you monitor significant risks. For instance, you can search the knowledge repository for existing mitigation strategies as well as download risk reports in PDF files. In addition, risk matrices and charts that track the historical values of significant risks are available in both the Monitoring Module and the risk reports.

Event logs are maintained for all significant user interactions with the system to facilitate auditing. For instance, the timestamp, user, and IP address of user machine are recorded when a user updates an action plan in the Risk Register. The granularity of logged events is customizable.

IREX<sup>®</sup> allows users to maintain risk profiles and lessons learnt by assigning groups of authorized users. For instance, these authorized users will be able to import and validate new lessons learnt from projects before they are assimilated into the system's knowledge repository. Moreover, they can add/modify profiles of suppliers and customers as your business relationships become more extensive.



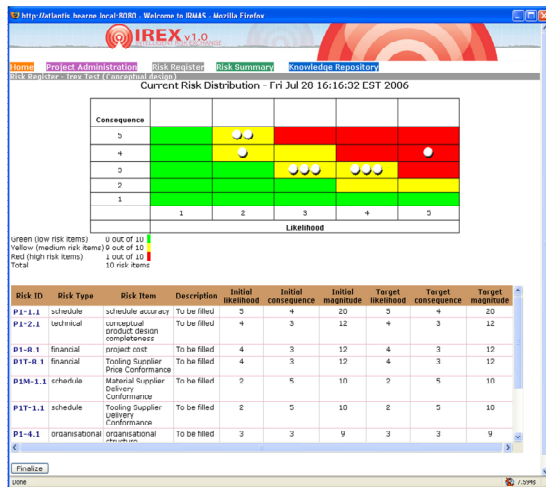
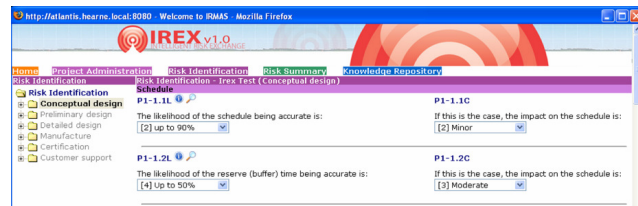
## Key Benefits

**Retain and reuse corporate knowledge and experience** - IREX<sup>®</sup> provides a knowledge management solution to your company through which critical information such as mitigation strategies and supplier risk profiles are stored in a central repository. The efficacy of this solution is correlated to the frequency of use and quality of encapsulated information. Our consultants will work with you to establish an initial cache of knowledge as well as maintain and accrue experience gained in your ongoing projects.

**Effective management of risks in projects** – IREX<sup>®</sup> supports clearly-defined role-based user access. You see only what you need to see. There are no functions that you will never use to clutter up your valuable screen estate. IREX<sup>®</sup> offers robust and convenient solutions to identifying, analysing, and monitoring your project risks. These solutions include the risk matrix which shows you the current distribution of significant risks, the risk chart that presents visual representations of the historical trends of risks, as well as the report generator that creates PDF reports of your projects whenever you require them.

**Intuitive interface and comprehensive documentation** – IREX<sup>®</sup> uses a familiar Internet browser environment to interface with industry-leading web-based servers. As such, minimal training is needed for you to use the system. This translates to lower start-up costs and less time that you need to spend on learning how to use the system.

Managing risks in your projects is now as straightforward as answering a series of questions customized according to the requirements of your projects. Explanations of technical terms and user guides are available online to all IREX<sup>®</sup> users. In addition, tooltips, informative dialog boxes, and search buttons are placed strategically throughout the system to help you use the system efficiently and effectively.

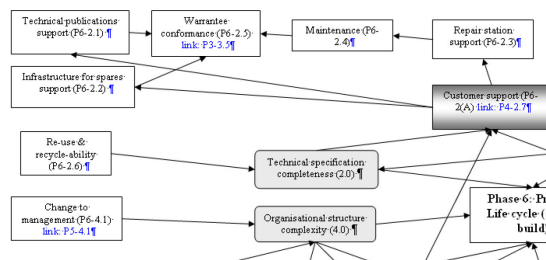


**Rapid return on investment** - Clear and easy-to-understand risk reports are generated according to Australian/New Zealand Standards on Risk Management. As such, you will have complete understanding of potential risks in your projects at an ongoing basis. These reports are customized when our consultants work with you prior to system deployment.

## The IREX<sup>®</sup> Solution

The full power of IREX<sup>®</sup> is achieved through a customised risk model for your company. Our consultants will work closely with you risk and project managers to ascertain the relevant risk profiles, policies, as well as lessons learnt. The results will be encapsulated in intelligent risk models that will be used by IREX<sup>®</sup> to help you leverage off unified corporate knowledge when identifying and analysing risks.

IREX<sup>®</sup> intelligent risk models can be optimized to incorporate your specific risk management policies and meet your evolving business requirements. In addition, these models capture the interdependencies between risk types and allow you to propagate the effects of residual risks using Bayesian Belief Network (BBN) and Analytic Hierarchy Process (AHP) methodologies. IREX<sup>®</sup> uses the BBN and AHP models to derive likelihood and consequence values of risks respectively.



## The next steps

Our consultants will work with your risk and project managers to prepare a brief report that outlines the work involved in creating a customised risk model to suit the activities of your organisation. **For more information, please contact Cezar Mincu, Product Manager [cezarm@hearne.com.au](mailto:cezarm@hearne.com.au)**



**Australia**  
 Phone +61 3 9602 5088  
 Fax +61 3 9602 5050  
 E-mail [info@hearne.com.au](mailto:info@hearne.com.au)  
 Web [www.hearne.com.au](http://www.hearne.com.au)

**New Zealand**  
 Phone +64 9 358 0350  
 Fax +64 9 358 0325  
 E-mail [info@hearne.co.nz](mailto:info@hearne.co.nz)  
 Web [www.hearne.co.nz](http://www.hearne.co.nz)

