

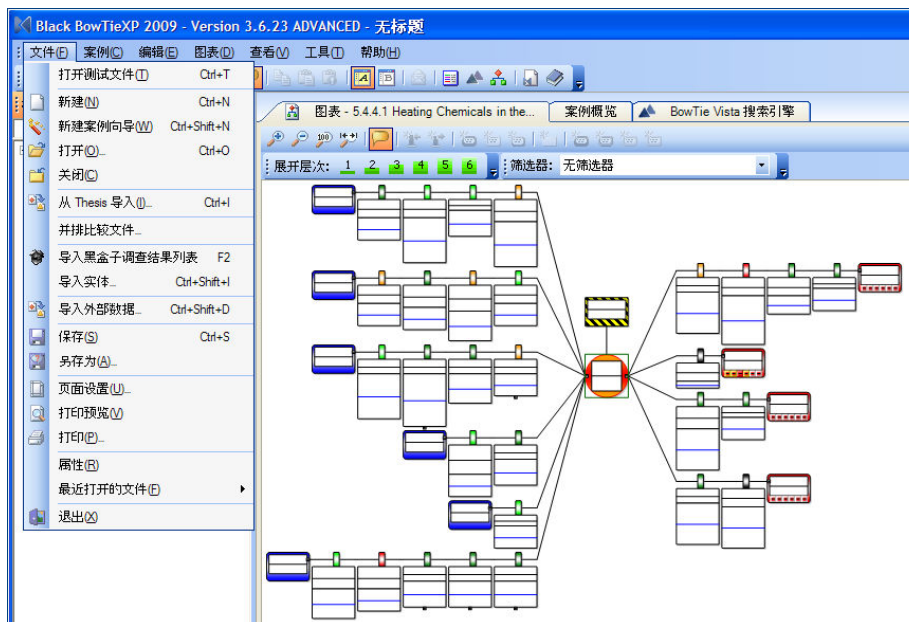
## Distributors of

# BowTieXP

RPS Safety and Risk are authorised suppliers and distributors of BowTieXP software, training and product methodology.

- Used by **\*some of the largest companies in the world** to qualitatively demonstrate risk
- BowTieXP delivers more by visualising risk and identifying how to manage risks
- A visual insight into **the cause and effect** relations in your organisation
- For the **most effective qualitative risk management**, BowTieXP is an essential tool.
- Now available in 5 European languages plus Chinese

The BowTieXP software brings a new level of rigour and control to the BowTieXP methodology, through **direct integration with your existing business systems** such as the safety management system and emergency response plan.



**Example of a BowTieXP model**

BowTieXP models provide a simple, graphical representation of the relationship between the causes and consequences of business upsets, the control measures in place and the tasks, procedures, responsible individuals and competencies which support and enforce the controls.

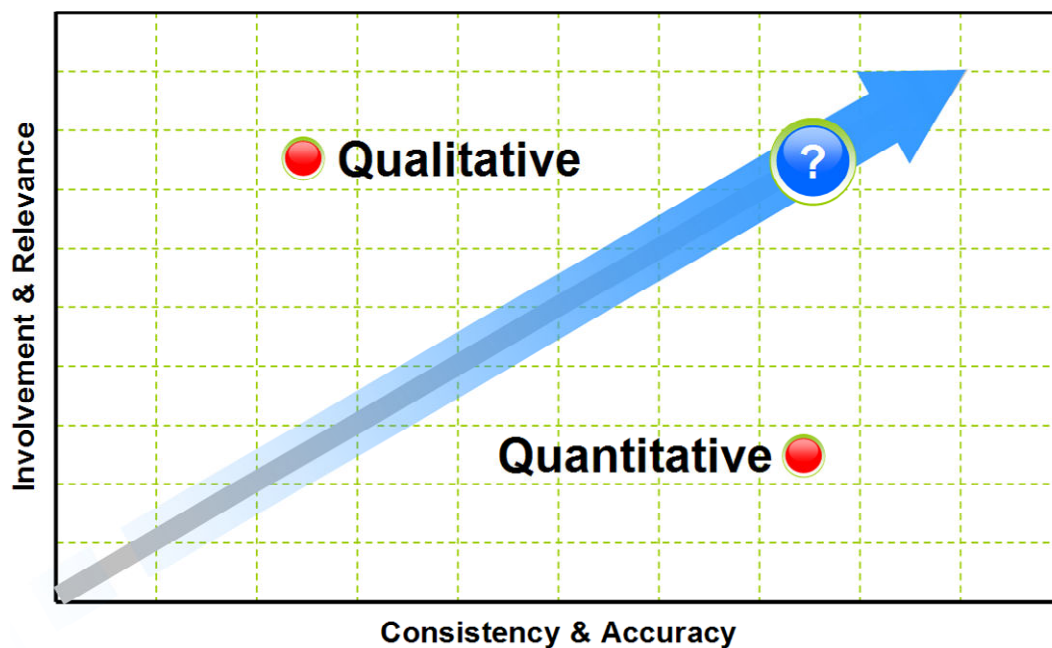
## The BowTieXP Risk Management Methodology

There are many ways to assess risk, but few match the elegance and simplicity of the increasingly popular BowTieXP methodology, used for several decades in the offshore oil and gas industry. Organisations which are already managing risks according to well accepted standards (e.g. AS/NZS 4360:2004 Risk Management) will find that the BowTieXP method supports these principles. Further, they espouse and extend them in key areas of risk communication, identification, analysis, evaluation and treatment. Implementing the BowTieXP approach, results in the true “management” of risks, rather than just an analysis of them.

### Qualitative V Quantitative

BowTieXP is an easy to use qualitative risk assessment technique that supports the facilitation of workforce based risk assessment activities such as HAZID workshops. The qualitative approach to risk assessment has often been considered too subjective for major risks. While traditionally major risks have been assessed utilising quantitative assessment techniques (QRA), this approach usually lacks workforce involvement and therefore suffers from a lack of operational relevance and understanding. The goal then should be to close the gap between these two approaches to overcome their limitations and maximise their benefits.

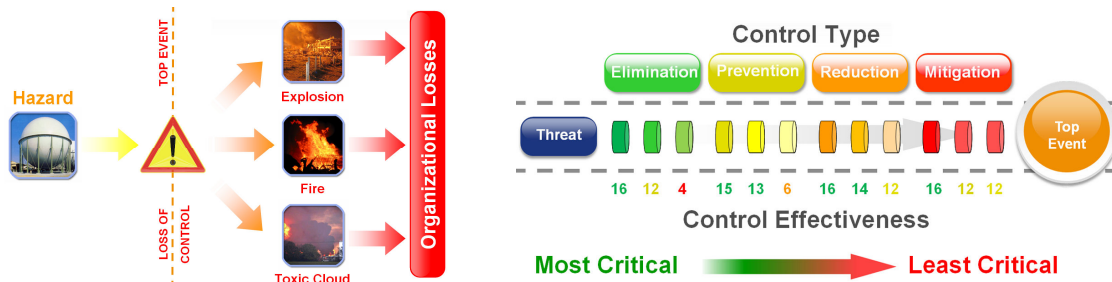
The BowTieXP software tool achieves this goal by allowing utilisation of the QRA-based assessment information for likelihood and severity of risks, and at the same time using the bow-tie analytical method and guiding principals to model the full risk scenario. This modelling identifies all consequences, threats, escalation factors (how controls can fail) and then rigorously analyses all of the controls to determine responsibility, effectiveness and the reasons that they might fail.



## Comprehensive and Structured Approach

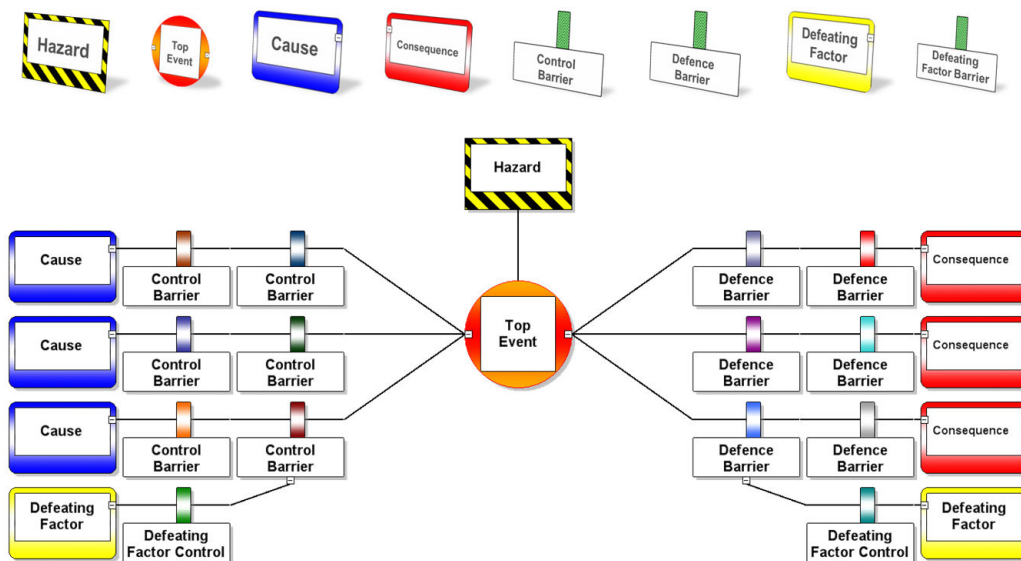
Risk assessments can have a tendency to concentrate only on the level of risk, rather than committing sufficient time to analysing how the risk is actually managed. The structured approach of BowTieXP results in an appraisal of how well all initial causes are being controlled and how prepared the organisation is to recover should things start to go wrong. The BowTieXP method helps you to systematically identify and show the relationships between the causes and consequences of business upsets and then allows you to target controls directly onto these unwanted events.

The analytical process is documented in the form of a diagram which has the general appearance of a bowtie - but it would be a mistake to think that the BowTieXP method is simply about drawing diagrams. Correctly implementing the BowTieXP method ensures that a detailed and quality process is followed in the initial and ongoing management of risks; the BowTieXP diagram simply allows you to easily visualise, understand and then communicate the risk to all of the stakeholders.



## A Picture Paints a Thousand Words

You will find that BowTieXP diagrams are easy to understand at all levels of an organisation - even including personnel who are not connected with the day-to-day operation you are assessing. This makes it much easier to discuss your risk assessment with others, and receive feedback from people who, realistically, are not going to read large, technical risk documents. Yet these are often the very people who really know how well the controls are working. With BowTieXP you can talk through the components of a particular scenario with them, to build a BowTieXP diagram layer-by-layer that clearly illustrates how the risk is managed. In this sense it is true that a "picture paints a thousand words".



## Benefits of the BowTieXP Qualitative Approach to Risk Management

**Logical Structured Approach** - A structured approach which delivers an assessment of how effectively causes are being controlled and how well prepared the organisation is to recover should things start to go wrong.

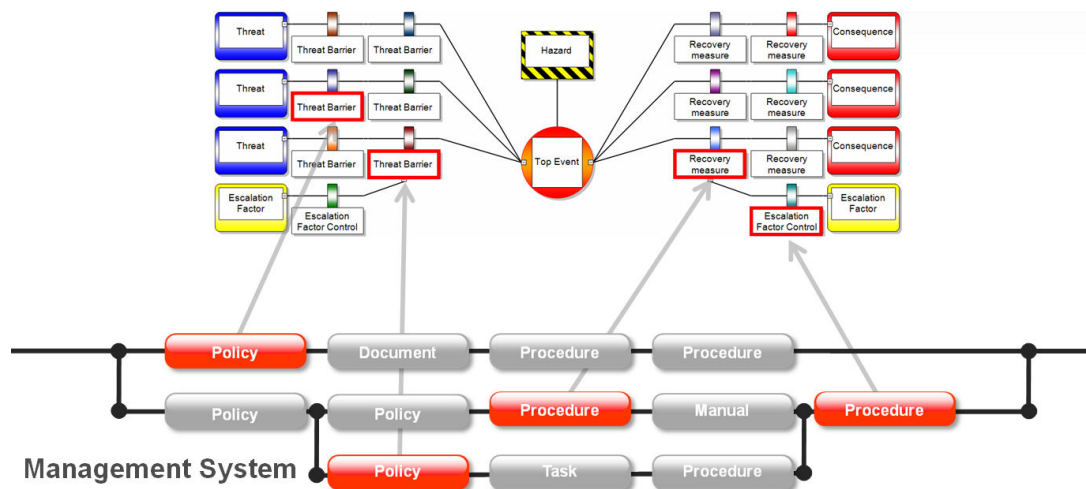
**Communication** – A diagram which is easily understood at all levels of an organisation, and even by personnel who are not immediately familiar with the day-to-day operation being assessed.

**Organisational Improvements** - BowTieXP can highlight areas where organisational controls are weak or missing, enabling resources to be directed to those areas where most benefit will be realised.

**Procedures And Competence** - A completed assessment which identifies critical tasks that are undertaken to assure the ongoing integrity of controls. This ensures that people know what they need to do, why and when it needs to be done.

**Critical Systems** - Systems such as fire protection or emergency power are clearly visible along the threat and consequence branches of the bowtie diagram and these can be linked to defined standards for system performance and how system performance is verified.

**Practical Assessment** – Structured workshops which facilitate communication between key stakeholders involved in managing the risk. Focusing on risk management from the perspective of what people do on a day-to-day basis, rather than just relying on analytical studies by technical risk specialists.



Enquiries:

[bowtiexp@bowtiexp.com.au](mailto:bowtiexp@bowtiexp.com.au)

Tel: +61 8 9211 1150 / +61 8 9211 1151

<http://www.bowtiexp.com.au>

\*Users include BP, BHP Billiton, Woodside, ENI, Xstrata, Transocean, Apache, Noble, Hess, Universities and Governments (Health, Defence), HSE Consultancies, Jetstar Aviation, Bristow, BC Hydro, Sydney Ferries.

RPS HSE Services profile is available at

<http://www.sarp.com.au/bowtiexp/library/RPS-Health-Safety-Risk-Services-Profile.pdf>