

Risk Management Made Simple

Welcome to the FREE Online Newsletter about **Systematic Risk Management**
for **executives** and **management professionals**
from **Risk Wise Inc.** and **Diana Del Bel Belluz**

July 2009

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"This newsletter provides a **comprehensive overview of key concepts for implementation** of risk management."

Sandra Parkins

Director
Integrated Risk Management
Fraser Health

FEATURE ARTICLE: Are Your Risk Models Flawed?

By Diana Del Bel Belluz, M.A.Sc., P.Eng.

Have you found yourself having to defend risk management lately? People at the water cooler, in the executive suite and in the boardroom are asking **'Why should we invest our time and money into implementing risk management in our company when it's failed so spectacularly elsewhere?'**

Much of the disenchantment with risk management stems from **the corporate sector's inability to foresee and prevent the financial meltdown** that has resulted in the current global economic recession. It has made people **question the value of sophisticated risk assessment models and highly paid risk executives**, and the massive investments made by publicly traded companies to comply with **Sarbanes-Oxley regulations**.

The disappointment in risk management also extends to public institutions over their handling of the recent swine flu outbreak. Some argue **the response was too little, too late**, e.g, the H1N1 virus spread for many weeks before it was detected and identified as a potential pandemic. **Others say the response was too much, too soon**, e.g., public health agencies declaring it a pandemic when most infections only produce mild symptoms, and stirring up fear when the impact is less severe than that of typical seasonal influenza.

Will recent failures of the risk management discipline lead to its demise? Let's not throw the baby out with the bathwater! Instead of abandoning the discipline, as a risk management leader you need to **understand the risk modeling weaknesses that lead to the recent failures** so that you can **guard against those flaws in your organization**.

Here are **3 risk management lessons** that can be drawn from recent failures and **9 tips to help you avoid making the same risk management mistakes**.

LESSON #1: Blind faith in models is

dangerous. It would appear that analysts and executives working in the financial sector forgot the famous quote by **George E.P. Box: "All models are wrong, but some are useful."**

The financial risk analysts created models that showed they could increase profits by getting into sub-prime mortgages. **Analysts and executives didn't question the risk models** that showed by spreading the risk amongst many investors, it could be lowered to almost zero! They blindly believed wild risk estimates that were based on faulty assumptions.

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TIP# 1: Ensure that assumptions that underlie your risk model are reasonable. Ask yourself: **Does our risk model produce an adequate approximation of real world cause and effect?** For example, is it responsive to factors that could realistically affect the risk level? **In building a model, it can be perilous to ignore factors that are difficult to describe or quantify.** In the sub-prime mortgage case, the risk models were built on the assumption that housing prices would always go up. The models didn't account for the possibility of prices falling and therefore didn't provide a realistic account of the risk.

TIP# 2: Constantly test to ensure that the model assumptions hold true as factors in the business environment change over time. Ask yourself: **Do any factors deviate from how the risk model designer expected them to behave?** For example, globalization has made us rethink our assumptions about being able to geographically contain the effects of either an influenza virus or an economic downturn.

TIP# 3: Risk assessment models are typically built for a particular risk scenario. If you want to use your model to estimate the risk of different scenarios, you need to make sure the assumptions still hold true for any new context in which you apply the model.

LESSON #2: Quantitative models can inspire over-confidence in our ability to measure risk. When something is expressed a number, as humans we ascribe accuracy to it, particularly if the model used to generate that number appears scientific. For example 'a **95%** chance' sounds more accurate than 'a **high** chance'.

TIP# 4: Rate the quality of your model inputs and outputs. Ask yourself: **Is the quality of risk estimates disclosed to and understood by the managers who rely on them?** Don't be fooled by numbers. As with any model, 'garbage in equals garbage out'.

TIP# 5: Use the best information available in your qualitative and quantitative risk models. Where possible, **use objective facts based on experience** with the risk you are modeling.

TIP# 6: Where facts are not available, develop guidelines to ensure that expert opinion and judgment is applied consistently with as little room for subjective bias as possible.

LESSON #3: Risk models are better suited to anticipating the future than predicting it.

We misuse risk models when we expect them to provide a single, exact prediction of the future. In his book *The Prediction Trap and how to avoid it*, **Randy Park** observes that "if you are predicting the future you are invested in your guess ... and you will look for evidence to confirm your prediction." This prediction bias explains why the brightest financial analysts didn't see their models were wrong.

TIP# 7: Express all risk estimates as a range of possible values rather than as a single point value. It is critical to recognize and communicate that **risk models produce estimates of risk, NOT definitive measurements of risk.**

TIP# 8: Let go of the notion that the purpose of a risk model is to predict what is most likely to happen. Instead, use the risk modeling process to **create stories about the range of outcomes that could occur.** By considering **multiple** views of how things might unfold, you'll be in a **much better position to plan your response options.** For example, do your risk response plans consider alternate scenarios of how the H1N1 virus might re-emerge during the coming flu season?

TIP# 9: In anticipating the future, seek out information that contradicts your current worldview. You will **dramatically reduce the chance of being blindsided.** Ask yourself: **Whose views does the model NOT consider?**

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The Risk Wise bottom line... Risk models are powerful management tools, but only when properly designed and applied. **Do you know how to find the flaws in your risk models that could undermine your risk management implementation efforts?**

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To explore how you can fortify your risk models, contact **Diana Del Bel Belluz** at **Risk Wise**: (416) 214.7598 Diana.Belluz@riskwise.ca

BONUS RESOURCE: How NOT to reinvent the 'risk management' wheel

Think fast; **can you name 3 publications on risk management?** More importantly, **what risk management literature have you read within the past year?** If your answers are blanks, you are in danger of wasting your time and resources trying to reinvent the risk management wheel.

I have noticed that many executives with risk management responsibilities read surprising little about the discipline. But the most successful ones do keep current with risk and management literature. This observation is confirmed by the paper ***Who Reads What Most Often? A Survey of Enterprise Risk Management Literature Read by Risk Executives*** by **John R.S. Fraser, Karen Schoening-Thiessen, and Betty J. Simkins**. Their study, published in the **Journal Of Applied Finance – Spring/Summer 2008**, found that experienced risk executives are much more familiar with the literature than their less experienced counterparts.

The paper also lists those titles that **experienced risk executives found very useful at early and advanced stages of ERM implementation**. Any risk executive would be well served to consult the risk and management resources (books, papers, and reports) featured in the paper by Fraser et al.

Research and learning from others can help you to **shorten your learning curve, avoid expensive mistakes** and **reduce the chance of failure in change initiatives** associated with enhancing risk management practices. **What is your plan to stay current with the risk management literature?**

Enter the RISK MANAGEMENT SUMMER READING CONTEST

Summer is here and many of you are no doubt planning some downtime. If you like to **catch up on your reading over the summer**, why not **take the Risk Wise Summer Reading Challenge?**

This summer, I challenge you to **expand your knowledge** and **contribute to the risk management discipline** by writing a brief review of any risk-related publication. If your review is selected for posting on the **Risk Wise** website, you will **win a \$50 giftcard** for your favourite bookstore. If you're wondering where to go for ideas on risk-relevant literature, check out:

- **The Conference Board of Canada's e-library** at www.e-library.ca
- The **Risk Wise Reading List** at https://www.riskwise.net/Reading_List.html

Contest Rules:

The contest is open to all readers of the **Risk Management Made Simple E-Zine**.

To be eligible, your review should be approximately **150-250 words** in length and **must:**

- **Summarize the main theme** of a **book, paper or research report** on any topic **relevant to the practice of risk management**
- **Include an example of how any key idea in the book can be applied** to enhance the practice of risk management in your business or sector.
- Be emailed to me at **Diana.Belluz @ riskwise.ca** by **September 15, 2009**.

IN MEMORIAM: Peter Bernstein, 1919-2009

On June 7, 2009, the field of risk management lost one of its great thinkers, **Peter Bernstein**. He was celebrated for his book ***Against the Gods: The Remarkable Story of Risk***.

To see a brief video in which Peter explores the history of risk and how it works in real-world markets and in our lives, visit:

http://www.mckinseyquarterly.com/Organization/Strategic_Organization/Peter_L_Bernstein_on_risk_2211

Special Offer for Subscribers Only

Special rate* for the Intergovernmental Forum on Risk Management (\$300 value)

Risk Wise has partnered with **The Conference Board of Canada** for the **2009 Intergovernmental Forum on Risk Management**. **Subscribers** to the **Risk Management Made Simple E-Zine**, are eligible for a special rate of **\$300 off*** of the total registration fee!

September 16-17, 2009

The Conference Board of
Canada's

2009 Intergovernmental Forum on Risk Management *Rethinking Risk and Rising to New Challenges*

Fairmont Château Laurier,
Ottawa, Ontario

Learn how to apply proven risk management discipline to today's challenges.

This exciting event will help you address today's risk management issues. Meet leading risk practitioners from all levels of government, and benefit from their real-world examples of successful risk management. Examine new measurement, governance, and risk management integration techniques, and new insights into regulation, best practices, and common risk management challenges.

At this event, **Tom Hopwood** of the **Centre for Public Management** and **Diana Del Bel Belluz** from **Risk Wise** will deliver a joint presentation explaining **how you can use a risk management maturity model to integrate strategic and operational risk management**. For details and to register, visit:

<http://www.conferenceboard.ca/conf/09-0161/default.aspx>

The special conference rate code was emailed to all **Risk Management Made Simple E-Zine** subscribers on June 23 and July 8, 2009. If you wish to receive the special rate code, please send an email to Diana.Belluz@riskwise.ca

* **Note:** This special rate is valid only for E-Zine subscribers who are not currently registered for the event.

About Us



Diana Del Bel Belluz
President
Risk Wise Inc.

Diana Del Bel Belluz, M.A.Sc., P.Eng., is a risk management advisor who **helps executives in complex organizations to implement systematic and sustainable risk management practices**. Since 1990, Diana has been doing **leading-edge risk work** for companies in a wide range of industries and government organizations.

In addition, Diana **advances the field of risk management** by **teaching** university courses and management training seminars, **speaking** at conferences and **authoring** publications on a wide range of risk management topics.

To learn more about Risk Wise, contact Diana Del Bel Belluz directly at: Diana.Belluz@riskwise.ca



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