

Financial Risk Measures

— What is financial risk?

eg Loss associated with an investment

Let $X =$ Loss associated with an investment

— What is a financial risk measure?

eg probabilities associated with X .

$$P(X > \text{£1 million}) > 0.9$$

\Rightarrow not start the investment

$$P(X > \text{£1 million}) < 10^{-30}$$

\Rightarrow ok to start the investment





NGO Financial Risk Management: Balancing Risks and Controls

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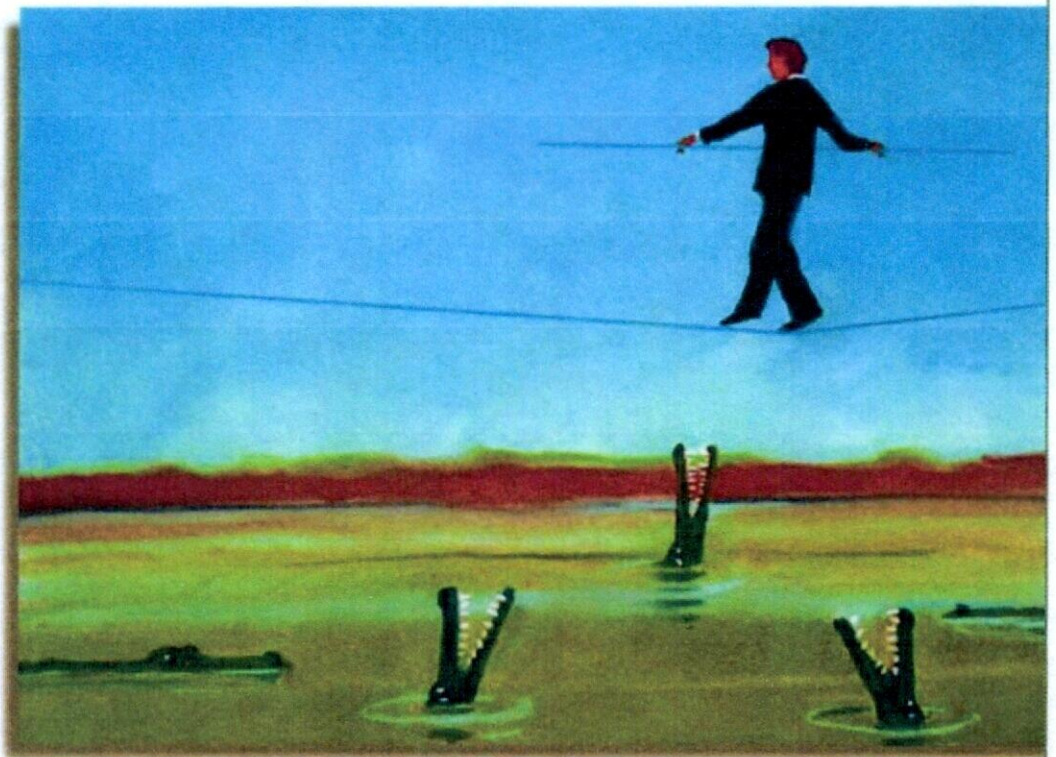
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A tip of the hat to you!

I would like to welcome everyone to my Frankenstein project for Fall 2009's Finance Function at the Monterey Institute of International Studies! Enjoy browsing! Thanks for passing by!

Why this website?



The intention for creating this website is to help those in the non-profit sector understand the implications of financial risk management for their given organization paying special attention to the ideas of risks vs. controls, illiquidity and conflict of interest. There are a couple major ideas that I would like to explore. One idea that will be examined is that of controls. Is there such a thing as having too many controls in an organization?

I want to stress the importance of organizational liquidity as well as explore a hypothetical financial conflict of interest situation. This is not a page about general risk management but instead focuses on financial risk in non-profits. I hope that this

Definition of a risk measure

A risk measure $\rho(\cdot)$ from a set of random variables to $(0, \infty)$ must satisfy

- $\rho(0) = 0$ normalised property

- $\rho(X+c) = \rho(X) + c$ translative property

- $X \leq Y \Rightarrow \rho(X) \leq \rho(Y)$ monotone property

Definition of a coherent risk measure

A risk measure is coherent if it satisfies

- normalised property
- translative "
- monotone "
- $\rho(cX) = c \cdot \rho(X)$ positive homogeneity
- $\rho(X+Y) \leq \rho(X) + \rho(Y)$ sub-additivity