

# The consistency keys: A Full risk management system for forex and futures

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## Abstract

Risk management is essential in finance and insurance, focusing on minimizing and controlling the impact of adverse events through risk identification, assessment, and prioritization. At its core, the discipline relies on mathematical models and methods, including stochastic processes, probability theory, and statistics, to predict and mitigate financial risks. This paper highlights the key mathematical tools used in financial risk management, particularly in measuring and managing credit risk. It underscores the importance of a multidisciplinary approach, combining mathematical finance and quantitative disciplines, to effectively address the challenges in risk management.

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## 1 Introduction

## **2 Risk Management Framework**

## **2.1   Mathematical Models for Risk Assessment**

### 3 Conclusion