

CONTENTS

<i>Foreword</i>	<i>xi</i>
<i>About the Author</i>	<i>xv</i>
<i>About the Contributors</i>	<i>xvii</i>
<i>Acknowledgments</i>	<i>xix</i>
<i>Introduction</i>	<i>xxi</i>
<i>Prologue</i>	<i>xxv</i>

SECTION 1: The Need for a New Approach to Tail-Risk Management

1. Sustainability Management is Critical	3
1.1. Disciplined Emphasis on Protection from Extreme Operational Risk	3
1.2. No Similar Emphasis on Protection from Extreme Financial Risk	3
1.3. Absence of Objective Parameters Accounts for the Lack of Proactive Emphasis	4
1.4. Do Regulatory Requirements Address Effective Management of Tail Risk?	4
1.5. Stress Testing	5
1.6. Living-Will Provision	6
1.7. Liquidity Reserves	6
1.8. Going-Concern Management and Tail Risk	7
1.9. Is the Need For Tail-Risk Management New?	7
2. Tail Risk is the Culprit	9
Prologue	9
2.1. Credit Policy: A Watchdog Function without Any Glamor	12
2.2. Credit Policy Role at Continental Bank	13
2.3. Evolution of Revenue Models and the Watchdog Function	14
2.4. Could the Problems of 2008 Have Been Avoided?	15
Epilogue	15
References	16
3. Need for a Distinct Focus on Tail Risk	17
3.1. Why a Distinct Approach?	18
3.2. Effective Management Calls for a Distinct Focus on Sustainability Issues	23
3.3. Sustainability Management Needs Distinct Parameters	23
3.4. Three Distinct Legs of Risk Governance	24
3.5. Is the Sole Focus on Risk Management Prudent?	25

4. Sole Focus On Traditional Risk Management Can Be Dangerous	27
4.1. A Mature Industry	27
4.2. A New Driver of Revenues	28
4.3. Days of Future Passed	29
4.4. And Then a Blind-Side Blow	29
4.5. A False Sense of Security	30
4.6. Misplaced Use of Models	30
4.7. Missing Focus on Tail Risk	31
4.8. Regulatory Emphasis Encouraged Improper Use	32
4.9. Sole Focus on Traditional Risk Management—Driven By Statistical Models—Can Be Misleading	32
References	33
5. Usefulness and Limits of Quant Models	35
5.1. Chaos Theory Given Assumption of Normality	36
5.2. Chaos Theory Given Assumption of Extreme Crisis	42
References	46

SECTION 2: Elements of Sustainability Management

6. If you Can't Measure it, You Can't Manage it	49
6.1. Prerequisite to an Effective Management Process	49
6.2. An Example	50
6.3. You Can Manage Exposure from Tail Risk Only if you can Measure it	52
7. Simplicity to Counter Complexities of Revenue Models	53
7.1. Decision Making Enhanced by Advances in Technology	53
7.2. Despite Technology and Quant Advances Human Decision Making Remains Simple	54
7.3. Decisions Regarding Unquantifiable Uncertainty Require A Different Approach	54
7.4. The Need for Simplicity is Critical In Complex Models	55
7.5. Post-2008 Developments Have Increased Complexity	56
7.6. A Simple Measure is Needed as Responding to Complexity with Complexity is a Recipe for Disaster	57
References	58
8. A New Measure for Effective Sustainability Management	59
8.1. A Simple Measure to Gauge the Sustainability of a Complex Model	59
8.2. PML, As a Measure of Exposure from Extreme Tail Risk, Has Several Advantages	62
8.3. PML Provides a Solid Tool for the Effective Management of Tail Risk	65

9. Continuous Readiness is Critical	67
9.1. Plans Are Useless, Planning is Indispensable	67
9.2. Readiness Defined	68
9.3. Degrees of Readiness	68
9.4. Ready Intellectually and Emotionally	68
9.5. Ready Intellectually, but Not Emotionally	70
9.6. Ready Neither Intellectually, Nor ...	71
References	73
SECTION 3: Implementation Issues and the Wide-Reaching Impact on Institutions and the Financial System	
10. Effective Sustainability Management	77
10.1. Key Parameters to Drive Risk Governance	77
10.2. PML as a Measure of the Extreme Exposure Parameter	80
10.3. Effective Tail-Risk or Sustainability Management	83
10.4. Effective Sustainability Management to Protect Capital	85
11. Paradoxical Capital Problem	87
11.1. The Need for a Bigger Cushion is Real Because of the Increased Pressure on Capital	87
11.2. Increased Capital Solutions are Not Sustainable	88
11.3. Increased Capital Solutions are Not Realistic	88
11.4. A New Approach to Addressing the Need for a Bigger Cushion is Required	88
11.5. Sustainability Management Offers a New Solution by Alleviating the Pressure on Capital	89
11.6. Another Reason for a New Approach	89
11.7. A Change is Needed in How Capital is Deployed	90
References	91
12. Capital as the Last Defense vs the First Defense	93
12.1. More and Stronger Defenses Mean Less Pressure on Capital	94
12.2. Sustainability-Enhancement Programs	95
13. Tail Risk, Regulatory Supervision, and Systemic Risk	99
13.1. Regulatory Objectives	99
13.2. Institutional Response	101
13.3. Reconciling Objectives	102
References	103
14. Convergence of Regulatory Objectives and Institutional Interests	105
14.1. Apparent Conflict	105
14.2. The Challenge	106

14.3. Convergence towards Common Goals	107
14.4. Reduction of Systemic Risk	108
15. Telling Your Story Effectively to Alleviate Marketplace Anxiety	109
15.1. High Level of Anxiety	109
15.2. A New Approach to Communicating Tail Risk is Needed	111
15.3. Reducing Anxiety, Building Greater Confidence, and Adding Shareholder Value	111
15.4. Objective Public Policy Debate	112
15.5. Too Complex to Manage?	112
16. Critical Factors in Preparing for an Extreme Financial Crisis	113
16.1. AIG Timeline	113
16.2. Key Observations	115
16.3. Sound Human Judgment, Not Rocket Science	116
16.4. Readiness at the Senior-Most Level	118
16.5. Simplicity to Counter Complexities and Maintain Control	119
16.6. Conclusions	119
17. From the Bane of the Revenue Model to a Competitive Advantage	121
17.1. The Bane of a Financial Institution's Revenue Model	121
17.2. Urgent Need for Proactive Tail-Risk or Sustainability Management	122
17.3. Proactive Tail-Risk Management Enhances the Ability to Respond to Crisis	123
17.4. Effective Sustainability Management Leads to Many Significant Advantages	123
18. Adapting Organizations to Effective Sustainability Management	125
18.1. Organization Focus	125
18.2. Implementation	128
18.3. Conclusion	131
Epilogue	133
Appendix	135
Index	137