Praise for SURVIVING and THRIVING in UNCERTAINTY

“The financial crisis prompted too many observers to conclude that corporate risk is fundamentally unmanageable. They need to read Funston and Wagner. Surviving and Thriving in Uncertainty is clear in its purpose, practical in its format that shows breadth, balance, and precision. The book clearly downstreams what that effective market transparency and strength are important, we must also create responsible risk-taking in order to pursue our enterprise economically forward.”
—Thomas J. Donahue, President and CEO, U.S. Chamber of Commerce

“This book is not about broad-based complex risk, but in the concept of risk intelligence for value creation and value protection. He is a frequent speaker and writer of risk intelligence for value creation and preservation. This book reveals risk management to be an integral part of value creation and preservation. It is must reading for executives and organizations hoping to proactively instead of reactively to improve performance, manage risk, and perform better. The authors offer broad views of experienced directors, along with this wisdom and practical advice, on implementing this most challenging of board responsibilities.”
—Ira M. Millstein, Senior Partner, Weil, Gotshal & Manges LLP

Get smart about risk management.

“Risk intelligence is dynamic. There is no set of rules to follow, no permanent certification, no way to make mistakes in the same way you can make mistakes in a production process. Rather, there is only a path to creating value and managing risks that enables better decisions.”

—from Surviving and Thriving in Uncertainty: Creating the Risk Intelligent Enterprise

With a fascinating discussion on decision making and risk management, Surviving and Thriving in Uncertainty: Creating the Risk Intelligent Enterprise challenges you to a new, multifaceted, proactive, way of thinking about risk that encompasses both risk prevention and risk creation. Promotion, finance, communication, and sometimes challenging times on the subject of risk management. The affordable guidebook in a number of traditions that you must confront if your business is to survive and thrive.

Here’s what you can expect in this book:

• What the Risk Intelligent Enterprise looks like
• Why conventional risk management has failed
• The ten fatal flaws of conventional risk management
• How you can correspond to enterprise risk management skills
• The rewards of risk intelligence

Drawing from the experiences and perspectives of risk warriors in and out of the business world, the authors offer practical advice on Surviving and Thriving in Uncertainty: Creating the Risk Intelligent Enterprise helps you get smart about managing risk—before it manages you.
More Praise for
*Surviving and Thriving in Uncertainty*

“*Surviving and Thriving in Uncertainty* is proof that effective risk intelligence doesn’t have to be an arcane venture requiring a Ph.D. The authors’ practical, common sense insights and actionable methods make efforts to improve decision quality and manage enterprise value not only achievable, but oddly enjoyable. Simplifying complexity is perhaps one of the book’s biggest strengths. Whether you’re an experienced director, a seasoned executive, or just starting out, this book is a must-read.”

—Chris DePippo, ERM Director and Chief Compliance Officer, Computer Sciences Corporation (CSC)

“Funston and Wagner’s excellent user’s guide for managing risk in today’s rapidly changing global business world is also a great tool for how to win in high-threat competitive environments. As skilled practitioners, they provide just the right mix of insightful reflection and timely practical guidance for readers to incorporate into their own disciplines.”

—William O. McCabe, former B-52 commander, Pentagon official, and DuPont executive

“*Surviving and Thriving in Uncertainty* provides a refreshing risk-management framework. Funston and Wagner provide unique insights into creating the Risk Intelligent Enterprise. Their focused questions and real-world examples transferred easily to our own risk program. The common sense approach resonated with our board and staff and rapidly advanced the WSIB’s risk program.”

—Theresa Whitmarsh, Executive Director, Washington State Investment Board
Surviving and Thriving in Uncertainty
Surviving and Thriving in Uncertainty

Creating the Risk Intelligent Enterprise

FREDERICK FUNSTON
STEPHEN WAGNER

John Wiley & Sons, Inc.
To our wives Irina and Charlie for their unflagging support and sage advice throughout this journey. To the partners, principals, and directors of the Deloitte firms for their support of this project.
Contents

Acknowledgments xiii
Foreword xv
Preface xix
Introduction xxiv

PART I WHEN RISKS BECOME BRUTAL REALITIES 1

CHAPTER 1 To Survive and Thrive: A Matter of Judgment 3
The Revolving Door to the Corner Office 4
Barriers to Board Effectiveness 8
The Imperatives of the Enterprise 11

CHAPTER 2 Conventional Risk Management Has Failed 17
What Goes Up Must Come Down 19
The Evolution of Finance, Market, and Risk Management Theory 24
Taking a (Random) Walk 26

CHAPTER 3 An Unconventional Approach to Risk Management 33
Calculated Risk Taking Creates Value 35
Calculated Risk Taking and Risk Aversion 44
Risk Intelligence: An Unconventional Approach 46
<table>
<thead>
<tr>
<th>PART II</th>
<th>TEN ESSENTIAL RISK INTELLIGENCE SKILLS</th>
<th>51</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAPTER 4</td>
<td>Check Your Assumptions at the Door</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Fatal Flaw #1: Failing to Challenge</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>Your Assumptions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Risk Intelligence Skill #1: Check Your</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>Assumptions at the Door</td>
<td></td>
</tr>
<tr>
<td>CHAPTER 5</td>
<td>Maintain Constant Vigilance</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>Fatal Flaw #2: Lack of Vigilance</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>Risk Intelligence Skill #2: Maintain</td>
<td>83</td>
</tr>
<tr>
<td></td>
<td>Constant Vigilance</td>
<td></td>
</tr>
<tr>
<td>CHAPTER 6</td>
<td>Factor in Velocity and Momentum</td>
<td>93</td>
</tr>
<tr>
<td></td>
<td>Fatal Flaw #3: Failure to Consider</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>Velocity and Momentum</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Risk Intelligence Skill #3: Factor in</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>Velocity and Momentum</td>
<td></td>
</tr>
<tr>
<td>CHAPTER 7</td>
<td>Manage the Key Connections</td>
<td>111</td>
</tr>
<tr>
<td></td>
<td>Fatal Flaw #4: Failure to Make Key</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>Connections and Manage Complexity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Risk Intelligence Skill #4: Manage Your</td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>Key Connections</td>
<td></td>
</tr>
<tr>
<td>CHAPTER 8</td>
<td>Anticipate Causes of Failure</td>
<td>131</td>
</tr>
<tr>
<td></td>
<td>Fatal Flaw #5: Failure to Anticipate</td>
<td>132</td>
</tr>
<tr>
<td></td>
<td>Failure of Failure</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Risk Intelligence Skill #5: Anticipate</td>
<td>137</td>
</tr>
<tr>
<td></td>
<td>Causes of Failure</td>
<td></td>
</tr>
<tr>
<td>CHAPTER 9</td>
<td>Verify Sources and Corroborate</td>
<td>149</td>
</tr>
<tr>
<td></td>
<td>Information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fatal Flaw #6: Failure to Verify Sources</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>and Corroborate Information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Risk Intelligence Skill # 6: Verify</td>
<td>158</td>
</tr>
<tr>
<td></td>
<td>Sources and Corroborate Information</td>
<td></td>
</tr>
</tbody>
</table>
Contents

CHAPTER 10  Maintain a Margin of Safety 165
   Fatal Flaw #7: Failing to Maintain a Margin of Safety 166
   Risk Intelligence Skill #7: Maintain a Margin of Safety 170

CHAPTER 11  Set Your Enterprise Time Horizons 183
   Fatal Flaw #8: Short-Termism 184
   Risk Intelligence Skill #8: Set Your Enterprise Time Horizons 190

CHAPTER 12  Take Enough of the Right Risks 203
   Fatal Flaw #9: Failure to Take Enough of the Right Risks 204
   Risk Intelligence Skill #9: Taking Enough of the Right Risks 208

CHAPTER 13  Sustain Operational Discipline 219
   Case Example: The U.S. Submarine Force 220
   Fatal Flaw #10: Lack of Operational Discipline 222
   Risk Intelligence Skill #10: Develop and Sustain Operational Discipline 227

PART III  CREATING THE RISK INTELLIGENT ENTERPRISE 235

CHAPTER 14  Risk Intelligence Is Free 237
   A Closer Look at Costs 239
   The Rewards of Risk Intelligence 253

CHAPTER 15  Risk Intelligent Governance 257
   The Risk Intelligent Board 258
   Committees of the Board and Risk Intelligence 271
   Where Does Risk Oversight End and Risk Management Begin? 277
CHAPTER 16  Risk Intelligent Enterprise Management 281  
ERMs and Risk Intelligence 282  
Developing Risk Intelligent Enterprise Management 284  
Act as One 287  
A New Way of Doing Business 291  

CHAPTER 17  The Way Forward: Creating the Risk  
Intelligent Enterprise 293  
The Benefits of Improved Risk Intelligence 294  
What's Your Enterprise Risk IQ? 295  
Making the Transformation 298  
Conclusion 304  

Notes 307  
About the Authors 325  
Index 327
We wish to express our sincere appreciation to the following people for their support:

To Elizabeth Harrington, John Cardis, Ellen Hexter, Debbie Van Opstal, and John Olson for their insights and advice.

To Tom Gorman, Max Russell, and Samantha Clutter for their editorial assistance.

To Barbara Tysell for her research and fact checking throughout numerous drafts.

To Bill Sandy and George Peck for reviewing early drafts and providing highly constructive feedback.

To Mike Gardner and Jim Laney for their willingness to be partners in developing these concepts.

To Duncan Galloway and Bill Foote for the years of collaboration that formed the initial foundation of the risk intelligent enterprise.

To Alex Zmoira, Ian Waxman, Lane Kimbrough, Linda Igarashi, and other members of the Governance and Risk Oversight team for their support in researching various aspects of the manuscript.

To Kristy Coviello, Jack Burlingame, and Mark Baylis for their help in taking this manuscript through to publication.

To John DeRemigis, Emilie Herman, Chris Gage, and the entire team at John Wiley & Sons for their efforts and support.

And lastly, to the innumerable directors and executives we have met with who have shared their experiences, their challenges, and their visions.