CONTENTS

Acknowledgements	
- Tenno II real-	xxiii
Preface	XXV
Introduction 1: The Challenge—A Conversation with	
	xxix
Introduction 2: Technology and Simulations:	
Why Timing Matters	xxiii
SECTION ONE	
Building and Buying the Right Simulation in	
Corporations and Higher Education Today	
1. Four Traditional Simulation Genres	2
Four Traditional Simulation Genres Controlling People with Branching Stories	7
Controlling People with Branching Stories Introduction to Systems Thinking: Interactive	/
Spreadsheets as Simulations	18
Making the Boring Fun: Game-Based Models	33
5. Getting a Good Feel for Things: Virtual Products	33
and Virtual Labs	42
SECTION TWO	
The Broader Opportunities of Simulations	
6. A More Complete Perspective: Looking to the Broader	
World of Educational Simulations	59
7. Recognizing New Types of Scalable Content: Systems,	0,
Cyclical, and Linear	70
8. The Three Essential Elements to Successful Educational	
Experiences: Simulations, Games, and Pedagogy	79
9. Learning from Live Role Plays	96
10. Role Plays Redux: The Revolutionary Role of	
New Technologies	106

11. Using Simple, People-Based Game and Simulation Elements	
for Devastating Effectiveness	118
12. Learning from Flight Simulators	125
13. The Most Popular Simulations: Computer Games	
as Expectation Setters and Places to Start	134
14. Computer Games Redux: The Right Model? How Right?	148
15. The Mosquitoes of the Educational Simulations	
Ecosystem: Marketing Mini-Games	162
SECTION THREE	
Next Gen Sims	
16. The Advent of Next Generation Simulations	173
17. What If We REALLY REALLY Simulated History?	
First Flight: The Wright Experience Flight Simulator	178
18. Virtual University and Understanding the Value of	
a Classroom	186
19. Military + Computer Game = Full-Spectrum Experiences	195
SECTION FOUR	
Managing the Simulation Process	
20. When Are Simulations a Solution?	205
21. Researching a Simulation: A New Competency	
22. Designing a Simulation: Keys to Success	
23. Deploying an Educational Simulation:	
It's Not What You Think	241
24. Iterations: Because You Won't Get It Right the First Time	254
25. One Branching Story Business Model	259
26. The Business Impact of Next Generation Simulations	264
27. Conclusion: Scalable Skills (a.k.a. a Heapen'	204
Helpin' o' Hype)	270
respir o riype	270
SECTION FIVE	
Appendices	
The same of the light	
tions to engine the age to business with his arms and a	
Appendix 1: Aligning the Right Instructional Solution for the	14
Right Problem	281
Appendix 2: e-Learning Architecture Considerations Today	292
Appendix 3: Traditional Corporate Simulation Vendors	301

CONTENTS

xí

Appendix 4: Advanced Techniques for Branching Stories	304
Appendix 5: Advanced Techniques for Interactive Spreadsheets	312
Appendix 6: Getting What You Want: The Black Art of	
Customizing the Four Traditional Simulation Genres	316
Appendix 7: e-Learning and Computer Game Milestones	327
Appendix 8: Full Interviews with Jane Boston, Warren	
Spector, and Will Wright	334
Index	343
About the Author	353
Pfeiffer Publications Guide	354