Jan vom Brocke • Theresa Schmiedel Editors

BPM – Driving Innovation in a Digital World





, Contents

Part I Introduction

Business Process Management: Potentials and Challenges of Driving Innovation	3
Theresa Schmiedel and Jan vom Brocke	J
Business Process Innovation as an Enabler of Proactive Value Chains Charles Møller	17
Thinking Tri-laterally About Business Processes, Services and Business Models: An Innovation Perspective Richard J. Welke	31
Part II Driving Innovation Through Emerging Technologies	
Emerging Technologies in BPM	51
Leveraging Social Media for Process Innovation. A Conceptual Framework	59
The Role of Enterprise Systems in Process Innovation	75
Process Innovation with Disruptive Technology in Auto Insurance: Lessons Learned from a Smartphone-Based Insurance Telematics Initiative	85
Jens Ohlsson, Peter Händel, Shengnan Han, and Richard Welch	
Part III Driving Innovation Through Advanced Process Analytics	
Extracting Event Data from Databases to Unleash Process Mining	105

x Cor	tents
Evidence-Based Business Process Management: Using Digital Opportunities to Drive Organizational Innovation Jan Recker	129
Enabling Process Innovation via Deviance Mining and Predictive Monitoring Marlon Dumas and Fabrizio Maria Maggi	145
Identification of Business Process Models in a Digital World Peter Loos, Peter Fettke, Jürgen Walter, Tom Thaler, and Peyman Ardalani	155
Part IV Driving Innovation Through New Generation Process Modeling	
Designing Process Modeling Tools to Facilitate Semantic Standardization: Increasing the Speed of Innovation in a Digital World Jörg Becker	177
(Air)port Innovations as Ecosystem Innovations	193
Leveraging Innovation Based on Effective Process Map Design: Insights from the Case of a European Insurance Company Monika Malinova and Jan Mendling	215
Part V Driving Innovation Through Organizational Capabilities	
Implementing a Digital Strategy through Business ProcessManagementCésar A.L. Oliveira, Ricardo M.F. Lima, and Hajo A. Reijers	231
Flexible Workflows and Compliance: A Solvable Contradiction?! Stefan Sackmann and Kai Kittel	247
On the Importance of Non-technical Process Capabilities to Support Digital Innovations Amy Van Looy	259
Driving Process Innovation: The Application of a Role-Based Governance Model at Lufthansa Technik	275
Curricula Vitae	287
Index	305