

CONTENTS

Author biography: Tom McGuffog ix

Acknowledgements xi

01 Realizing value and value chain management 1

Executive summary 1

Your value chain can become far more valuable 2

Value 7

02 Introduction 8

03 Overarching values 13

Summary 13

Giving list to values 13

Relative values 14

A valuable conclusion 16

04 The optimal sequence of decisions 18

Summary 19

The decision sequence 19

05 The value in value chain management 22

Summary 22

Definition 22

How to do more with less – frugal innovation 25

Value chain linkages and interactions 25

Value chain management measures 25

Valuing human life 26

Stocks and flows 27

Net present value 27

Earned value management 28

Transfer prices	29
Conclusions on value	29
06 A review of some modern value chains	31
6A Finance; food; automotive; electronics	31
6A.1 The financial value chain	31
6A.2 The food value chain	41
6A.3 The automotive value chain	49
6A.4 The electronics value chain	55
6B Public sector; health; defence equipment; public transport; water	60
6B.1 The public sector value chain	60
6B.2 Health and care value chains	65
6B.3 Defence equipment (material) value chain	77
6B.4 Passenger transport – rail, road, air, sea	84
6B.5 The water value chain: structure and added value	89
6C Reform of key institutions	99
6C.1 Reform of the government value chain	99
6C.2 Reforming our democratic value chain	111
6D Voluntary and charitable; sport ; the arts	116
6D.1 Voluntary and charitable sector value chains	116
6D.2 Sports club value chain	127
6D.3 The arts value chains	130
07 A question of identity	135
Introduction	135
Barcodes	136
Master data	137
Electronic business	138
Banking	141

Electronic tags and RFID	142
Healthcare identification	142
Building and maintaining aircraft	143
Defence	145
A better future for us all	145
Identify us well	146

08 Constructing sound value chain process and data architectures 149

Introduction	149
Structuring the process architecture	150
The plan to payment process	151
Defining a sound data architecture	156
Single window	161
Financial flows	161
Recommendations	162
Value chain process analysis and driving business change	163

09 Value chain collaboration and competition 165

Introduction to competition and collaboration issues – legal and practical	165
9A Staying within the law	165
9B Effective value chain collaboration and competition	170

10 Effective and integrated value chain planning 176

Summary	176
Dynamic planning	177
Integrated business planning	179

11 Managing uncertainty 182

Introduction	182
Definitions	185
Uncertainty explored	188

	Uncertainty and lack of understanding	191
	Attitudes to uncertainty, opportunity and risk	191
	Integrated planning and risk methodology	193
	Risk lists and matrices	196
12	Dynamic management of projects and initiatives	198
	Methodology	199
	Application to financial investment and to value chain operations management	207
	Conclusion	208
13	Valuable steps to success and future value chain R&D	209
	Twelve practical steps to success	209
	Proposed areas for value chain research and development	211
14	Practical exercises in value chain management	215
	Exercise 1	215
	Exercise 2	216
	Exercise 3	216
	Exercise 4	216
	Exercise 5	217
15	Key references	218
	15A Value chain management references	218
	<i>Index</i>	225