

CONTENTS

About the authors xviii

Foreword by Laurence Prusak xx

Introduction 1

PART ONE Orientation to knowledge management implementation 5

01 What is knowledge management? 7

Introduction 7

Definition 7

The seven main components of knowledge management 9

Translating KM into business terms 11

The supply chain analogy 14

The essential elements of knowledge management 14

Knowledge management as orchestration 18

Summary 20

References 20

02 The stages of KM implementation 22

The different implementation approaches 22

Our recommended approach 22

The parallel opportunity-led programme 28

Escalating levels of management decision 29

Summary 30

Reference 30

03 Barriers and pitfalls 31

Survey evidence 32

Lessons from the field 34

Summary 43

References 44

PART TWO Preparation and resources 45

04 Knowledge management strategy 47

- Deciding the strategic principles 47
- Identifying the business drivers 48
- Defining the knowledge management vision 49
- Agreeing the knowledge management scope 50
- Defining the strategic knowledge areas 50
- Assessing the current state of knowledge management 51
- Creating a draft knowledge management framework 52
- Deciding how to handle change management 52
- Creating a business case 53
- Summary 53
- References 54

05 The role, skills and characteristics of the knowledge management leader 55

- The role of the knowledge management leader 56
- Should the knowledge management leader be an internal or external appointment? 57
- The most important characteristic for an external appointment 58
- What competencies does the knowledge management leader need? 59
- The personality trap 60
- A metaphor 61
- Summary 63
- References 63

06 The KM team members 64

- How big should your KM team be? 64
- What skillsets will you need on your team? 66
- Attitude and values 68
- Team roles 68
- Summary 69
- Reference 70

- 07 The role of senior management 71**
The role of the sponsor 71
The risks to effective sponsorship 73
The knowledge management steering team 74
Working with the other senior managers 75
Summary 76
- 08 Budget and timescale 77**
The need for a budget 77
How big will the budget need to be? 78
Assigning your budget among the four KM enablers 78
Benchmarking your budget 80
How long will it take to implement knowledge management? 81
Beware the self-funding trap 83
Summary 84
Reference 84
- 09 Aims and objectives for the KM implementation programme 85**
Benefits mapping 85
The interim objectives 89
Making the objectives SMART 90
Impact metrics for knowledge management 91
Setting the value targets and estimating ROI 95
Dealing with imposed targets 96
What if you can't measure value in monetary terms? 97
Not all measures should be targets 97
Summary 98
References 99
- 10 Finding partners to help you 100**
Who should be responsible for KM? 100
KM as partnering 103
Initiating a partnership 105
Transitioning the partnerships 107
Identifying non-obvious partners 108
Summary 111
References 111

PART THREE Assessment and planning 113

11 Conducting the knowledge resources audit 115

What is a knowledge resources audit? 116

How does the audit help a KM implementation? 117

What are we auditing? 117

What are the steps in a knowledge resources audit? 120

Analysing the results of the audit 121

Summary 124

References 125

12 The knowledge management framework 126

What is a management framework? 126

Why we need a framework for KM 128

A template for your KM framework 129

When you might need more than one framework 132

Summary 133

Reference 133

13 The knowledge discussion elements of the KM framework 134

Dialogue as the preferred form of discussion 134

Roles for knowledge discussion 135

Processes for knowledge discussion 139

Technologies for knowledge discussion 142

Governance for knowledge discussion 143

Summary 144

References 144

14 The knowledge capture and documentation elements of the KM framework 145

The difference between documented knowledge
and information 145

Roles for knowledge documentation 146

Processes for knowledge documentation 148

Technology for knowledge documentation 153

Governance for knowledge documentation 155

Summary 156

References 156

- 15 The knowledge synthesis elements of the KM framework 157**
- What is knowledge synthesis? 157
 - What does synthesized knowledge look like? 158
 - Roles for knowledge synthesis 160
 - Processes for knowledge synthesis 161
 - Technologies for knowledge synthesis 163
 - Governance for knowledge synthesis 165
 - Summary 166
 - References 166
- 16 The knowledge-finding and re-use elements of the KM framework 167**
- The challenges of knowledge re-use 168
 - Incentivizing knowledge seeking 168
 - The importance of making knowledge findable and accessible 169
 - Roles for knowledge finding and re-use 170
 - Processes for knowledge finding and re-use 172
 - Technologies for knowledge finding and re-use 174
 - Governance for knowledge finding and re-use 176
 - Summary 177
 - References 178
- 17 Knowledge organization 179**
- Grounding knowledge organization in the business drivers 179
 - The three components of knowledge organization 180
 - Taking an evidence-based approach to knowledge organization 184
 - Using the knowledge resources audit to focus on what counts 185
 - Testing and validating your knowledge organization system 186
 - Summary 187
 - Reference 188
- 18 Influencing the stakeholders 189**
- The steps of the buy-in ladder 189
 - The knowledge manager as salesperson 191
 - Segmenting your audience 192
 - Influencing tactics 194

When to use the influencing techniques 198
Summary 198
References 199

19 Culture, communications and change 200

KM as an agent of culture change 200
Mapping the current culture 201
Understanding the cultural drivers 205
The KM paradigm shift 206
Communication and change 207
The communication plan 209
Summary 210
References 210

20 Preparing the KM implementation plan 212

How to create the implementation plan 212
Potential elements of the KM plan 216
Summary 223

PART FOUR The implementation activity 225

21 Building the KM champion network 227

What is a KM champion? 227
What KM champions do 228
How to identify potential KM champions 229
Maintaining the motivation of the KM champions 231
Supporting the KM champions 234
Summary 237
References 237

22 Trials and pilots 238

Proof-of-concept trials 238
Where to look for quick wins 241
Selecting KM pilot projects 241

The ‘minimum viable KM framework’ 243
Delivering KM pilots 244
Reaching the organizational decision point 248
Summary 249
Reference 249

23 Roll-out, embedding and governance 250

What does embedding mean? 250
Examples of embedded KM 251
Finalizing the KM framework 254
The governance elements of the KM framework 254
The KM policy 255
KM roll-out 258
Celebrating the successes 259
Tracking the roll-out phase 261
Summary 262
References 262

24 Setting up the KM metrics and reporting system 263

The different kinds of metrics and their purposes 263
Examples of KM metrics 267
KM performance management 270
KM metrics reporting 271
KM metrics as a learning opportunity 272
Summary 273
References 273

25 Dealing with bumps in the road 274

Dealing with common objections 274
Challenge scenario 1: over-enthusiastic support 276
Challenge scenario 2: death by a thousand cuts 278
Challenge scenario 3: perpetual reset mode 279
Challenge scenario 4: the showstopper 281
Summary 282
Reference 283

26 Transition to the operational team 284

The decision to close the implementation programme 285

The role of the KM team after implementation 286

Knowledge management refresh and update 287

Summary 289

References 289

PART FIVE Deepening and extending your KM programme 291

27 Working with external frameworks and standards 293

The benefits and limitations of generic KM frameworks 294

KM maturity models – opportunities and dangers 295

KM awards – benefits and limitations 298

Standards development in KM 300

Using the ISO 30401:2018 KM standard 303

Self-audit or external audit? 304

Summary 308

References 308

28 Working externally 310

Building your KM peer networks 310

Working with trusted consultants 312

Working with technology vendors 316

Scoping and issuing tenders for KM projects 317

Summary 324

Reference 324

29 Knowledge management and digital transformation 325

The relationship between KM and digital transformation 325

The core technologies of digital transformation 327

The limitations of artificial intelligence (AI) 329

KM implications of digital transformation and AI 331

Summary 337

References 337

PART SIX Case histories 339

30 **Implementing KM at Mars** 341

By Linda Davies, former Knowledge

Management Director, Mars, Incorporated

Know why you're doing what you are doing 341

Focus on critical activities that help deliver strategy 342

Plan the roll-out to build the KM story 344

Go where there is 'pull' and keep all activities relevant
to the business and to associates 344

Measure the business impact of KM activities 345

Be consistent 346

Select the team members carefully 346

Build top-down support 347

Embed critical knowledge via existing business processes 348

When is it over? 348

Summary 349

31 **NASA – emergence, evolution and resilience of a KM programme** 350

By Barbara Fillip, former KM lead within the Flight Projects

Directorate, Goddard Space Center

Building a resilient KM programme 351

The NASA KM Community 351

KM at NASA Headquarters: a tight bond
with internal training 352

KM at a NASA Center: Goddard Space Flight Center 354

Evolution of KM at headquarters and at the Centers 355

Strengthening of the programme at the Agency
and Center levels 356

A new beginning for a resilient KM programme
and a focus on continuous improvement 359

Summary 360

References 361

- 32 Using the ISO KM standard 30401:2018 to sense-check KM at Petroleum Development Oman 363**
By Hank Malik and Suleiman Al Toubi, Hank Malik is KM Programme Lead, PDO and Dr Suleiman Al Toubi is former Asset Oil Director, PDO and visiting industry academic, Muscat University, Oman
 Introduction 364
 The standard's key requirements and PDO KM reflections 364
 Conclusions 373
 Summary 373
- 33 KM implementation in a global oil and gas company 374**
By Dan Ranta, KM Leader at GE
 A focus on collaboration 374
 Connecting sharing to the business – a bold approach 375
 The link between knowledge networks and business results 376
 Connecting people and governance 377
 Visible leadership led to knowledge network growth 378
 Building sustainability 378
 Knowledge discussions and lesson learning 379
 Promoting knowledge re-use 379
 Knowledge synthesis: closed discussions
 and an enterprise wiki 380
 Measuring knowledge network activity 381
 Summary 381
 Reference 382
- 34 KM implementation at Huawei 383**
By Tan Xinde, former leader of the Huawei KM programme
 The value of KM to Huawei 384
 The start of Huawei's KM journey 385
 Going from the HQ to the frontline 388
 Explicit vs tacit knowledge management 389
 The current state of KM in Huawei 389
 Summary 391

35 KM implementation at the Singapore Youth Olympics 392

By Doreen Tan, former Head Knowledge Management, Singapore Youth Olympic Games Organizing Committee

Facilitating the smooth flow and exchange of information 393

Cultivating a learn-as-you-go culture 394

Retaining and transferring Games know-how 396

Summary 397

36 Implementing and sustaining KM in the Public Works Department Malaysia 398

By Roznita Othman, former Knowledge Management Director, PWD

PWD Malaysia is a knowledge-intensive organization 399

The beginning of the KM journey 399

KM initiatives 401

Key challenges for KM 405

How KM was sustained 406

Areas of future improvement 407

Summary 408

Summary 409

Glossary 410

Index 421