Contents

Preface: The report update that became a book xi

A changing landscape xi
Changing us, changing the book xii
Acknowledgments xv

Itinerary: A reader's guide xvi

How we envision you, the readers xvi
What this book is not xvii
How we structured the book xvii
Part I – Introduction (Chapters 1-3) xviii
Part II – Literacy (Chapters 4-6) xviii
Part III – Practice (Chapters 7-10) xix
Part IV – Future (Chapters 11-12) xix
Where you should focus xx
The online component of the book xx

Part I: Introduction 1

Chapter 1: Communities of practice: a glimpse of theory 3

Seeing community in technology 4
The "domain" dimension 4
The "practice" dimension 6
The "community" dimension 8
Seeing technology through community 10

Chapter 2: Technology and community: a glimpse of history 13

Technologies ➡ communities 14
Communities ➡ technologies 18
Technology and communities: a productive intertwining 19

Chapter 3: Technology stewardship: an emerging practice 23

A working definition of technology stewarding 24
Streams of activity 26

The role of technology steward 27
Why take on the role of technology steward? 28
Stewarding technology in diverse circumstances 29
Stewarding within an organization 30
Stewarding across organizational boundaries 30
Stewarding outside organizations 31
Stewarding across multiple communities 31
What about you as a technology steward? 32

Part II: Literacy 35

Chapter 4: Constructing digital habitats: community experience in technology configurations 37

Constitution of the habitat 38
The tool perspective: habitat enabling activities 39
The platform perspective: packaged suites of tools 40
The feature perspective: habitat as habitability 43
The configuration perspective: a habitat's full technology substrate 45
Integration of the habitat 48
Integration through platforms 49
Integration through interoperability 51
Integration through tools 52
Integration through practice 53

Chapter 5: Making sense of the technology landscape 55

Three inherent polarities 56
A snapshot of community tools 60
The "classics" at the core of the regions 62
New generations of hybrid tools 63
Technology and community dynamics 67

Chapter 6: Community orientations:activities and tools 69

Orientation 1: Meetings 72
Orientation 2: Open-ended conversations 75
Orientation 3: Projects 79
Orientation 4: Content 81
Orientation 5: Access to expertise 84
Orientation 6: Relationships 86
Orientation 7: Individual participation 89
Orientation 8: Community cultivation 93
Orientation 9: Serving a context 96
Using orientations to think about technology needs 99

Part III: Practice **101**

Chapter 7: Assesssing your community context **103**

Your community's state of readiness for technology change 103
Your community's relationship with its environment 105
Time and sequence issues 106
Your community's budget and resource considerations 107
Technology infrastructure considerations 108
A note on platform pricing 110

Chapter 8: Technology acquisition strategies **113**

Strategy 1. Use what you have 115
Strategy 2. Go for the free stuff 117
Strategy 3. Build on an enterprise platform 119
Strategy 4. Get a commercial platform 121
Strategy 5. Build your own 123
Strategy 6. Use open-source software 125
Strategy 7. Patch elements together 127

Chapter 9: Stewarding technology in use **131**

Stewarding in the foreground is different than in the background 133
Major transitions: technology stewarding in the foreground 135
1. Implementation and deployment of a community platform (new or migration) 135
2. Community closure and end-of-life issues 138
Ongoing concerns: technology stewarding moving into the background 138
1. Supporting new members in their use of the community's technology 139
2. Identifying and spreading good technology practices 140
3. Supporting community experimentation 142
4. Attending to community boundaries created by technology 143
5. Ensuring continuity across technology disruptions 144

Chapter 10: Action notebook **147**

Preamble: Being a tech steward 148
Step 1. Understand your community 149
1.1 Community characteristics 150
1.2 Orientations 152
1.3 Technology configuration: inventory 154
1.4 An emerging picture 156
Step 2. Provide technology 157
2.1 Resources and constraints 157
2.2 Select an acquisition strategy 158
2.3 Seek a solution 161

2.4 Plan for change 165
Step 3. Stewarding technology in use 166
3.1 Everyday stewardship 166
3.2 Community end-of-life closure 168

Part IV: Future 169

Chapter 11: A more distributed future 171

A vortex of inventiveness 172
Trends in digital habitats: reconfiguring community polarities 173
1. Increased connectivity across time and space 174
2. New modes of engagement for interacting and publishing 176
3. Changing geographies of community and identity 177
4. Toward a socially active medium 179
Challenges and opportunities 181

Chapter 12: A learning agenda 183

A literacy of technology stewardship 184
1. Serving existing communities 186
2. Making new communities possible 188
People finding each other on a wider scale: size and meaningful engagement 188
Digital habitats as community catalysts 189
Access to living practice through virtual presence 189
Complex geographies of identity and domain-based relationships 190
Seeing the social in the technological 191
3. Stretching our very notion of community 192
Proto-communities: emerging patterns of communities and networks 192
Emerging practices of stewardship: balancing network and community processes 196
Learning between the old and the new 197
Technology stewardship: a latent community 197

Glossary 200

Additional online material 217

Index 218

List of figures

Figure 1.1: The range of activities in which communities of practice engage 6
Figure 3.1: The centrality of the community perspective in all tasks 27
Figure 4.1: The tools view. Tools support specific community activities 39
Figure 4.2: The platform view. Vendors and developers package tools into platforms .. 41
Figure 4.3: The feature view. Features make technology usable 43
Figure 4.4: The configuration view. A complex configuration of technologies serves as substrate to a digital habitat 45
Figure 5.1: The tools landscape 60
Figure 5.2: A geo-map of the MPD community 66
Figure 6.1: The potential configuration of technologies serving a community's orientation to meetings 71
Figure 8.1: Seven acquisition strategies 114
Figure 8.2: How community orientations and context can interact with acquisition strategy 115
Figure 8.3: Use what you have 116
Figure 8.4: Go for the free stuff 117
Figure 8.5: Build on an enterprise platform 119
Figure 8.6: Five possible platforms for a community 121
Figure 8.7: An open-source selection example 125
Figure 9.1: Sources of knowledge for good stewardship 132
Figure 9.2: Foreground and background stewarding effort over time 134
Figure 10.1: Community orientations spidergram 152
Figure 10.2: Polarities as slider bars 162
Figure 10.3: The tools landscape as a community worksheet 162
Figure 12.1: Bounded Communities 193
Figure 12.2: Community arising around a primary blogger 194
Figure 12.3: Topic-centric communities 195