TABLE OF CONTENTS

Acknowledgments——8

[A] Abstract——10

Research papers——16

[P] Prologue——18

[1] Introduction——22

[1.1] When designers and users work together——28
[1.2] Participatory design extends into communities——32
[1.3] Where designers and users work together——34
[1.4] What do they make together?——38
[1.5] Research questions and objectives——41
[1.6] Dissertation structure——44

[2] Research design——48

[2.1] Research approaches——49
[2.1.1] Positioning in a transdisciplinary context——50
[2.1.2] Mode 2 research and the introspective designer——52
[2.2] Research approaches——54
[2.2.1] Research through design——54
[2.2.2] Constructing theory with research through design——56
[2.2.3] Following a programmatic approach——58
[2.2.4] A qualitative research approach——62
[2.2.5] Combining two research approaches and different methods——64
[2.3] The experiments in short——66
[2.4] The interplay of theory and practice——73

[3] Program——80

[3.1] Extended participatory design——81
[3.1.1] The blurred spectrum spanning design and use in extended PD——82
[3.1.2] Infrastructuring and its social and material considerations——85
[3.1.3] Changing participants' (designers' and users') roles in extended PD——89
[3.1.4] Participation (as skillful acts of use) becoming design——91
[3.1.5] Skillful participation in alternative spaces of peer production——93
[3.2] Summarizing the program frames——95

[4] Results—100

[4.1] Research questions—101
[4.2] Summary and results of the papers—102
[4.2.1] Paper 1: Summary and results—103
[4.2.2] Paper 2: Summary and results—104
[4.2.3] Paper 3: Summary and results—105
[4.2.4] Paper 4: Summary and results—107

[5] Contributions—112

[5.1] Answering the research questions—113
[5.2] Summarizing the contributions—118

[6] Conclusions—124

[6.1] Limitations—128
[6.2] Future research—129

[*] References—134

[E] Epilogue—146

Reflections on implementing a co-sewing café

[P1]...[p4] Original research papers—162