

Table of Contents

Abstract (English)	iii
Abstract (Deutsch)	iv
Submission Record	v
Acknowledgements to my crowd.....	vii
Table of Contents.....	ix
List of Tables	xii
List of Figures	xiii
1. Introduction	2
1.1 Proudly found elsewhere	2
1.2 Open innovation	3
1.3 Internal open innovation as a complementary strategy.....	5
1.4 Not all that glitters is gold	7
1.5 Problem formulation and thesis overview	7
1.5.1 Leveraging Crowdsourcing: The Moderating Role of External Search Breadth	11
1.5.2 Triggers of collaborative innovation in online user communities: A netnographic study	11
1.5.3 Internal Open Innovation – Lessons Learned from Internal Crowdsourcing at SAP	12
References	12
2. Leveraging Crowdsourcing: The Moderating Role of External Search Breadth.....	18
2.1 Introduction	19
2.2 Conceptual background	20
2.2.1 Innovation search and external sources of knowledge.....	20
2.2.2 Crowdsourcing for innovation	21
2.3 Hypothesis	22
2.3.1 Crowdsourcing and innovation performance.....	22
2.3.2 Crowdsourcing and search breadth	24
2.4 Methodology.....	27
2.4.1 Dataset	27
2.4.2 Variables	27
2.4.3 Econometric model	29
2.5 Results	30
2.5.1 Descriptive results.....	30
2.5.2 Model estimation results	33
2.5.3 Robustness checks	35
2.6 Discussion and conclusion.....	39
2.6.1 Contribution.....	39
2.6.2 Limitations.....	40
2.6.3 Conclusion	41
References	41
3. Triggers of Collaborative Innovation in Online User Communities: A Netnographic Study.....	48

3.1	Introduction	49
3.2	Theoretical background	50
3.2.1	Individual user activities	50
3.2.2	Collaborative innovation.....	51
3.3	Materials and methods.....	52
3.3.1	Setting: OpenEnergyMonitor	52
3.3.2	Data collection and cleansing	54
3.3.3	Content analysis.....	54
3.3.4	Variables	54
3.3.5	Regression analysis.....	58
3.4	Results	58
3.4.1	Descriptive statistics	58
3.4.2	Regression results	59
3.4.3	Robustness checks	61
3.5	Discussion	61
3.5.1	Effects of individual user activities on collaborative innovation	61
3.5.2	Explaining collaborative innovation in user communities	62
3.5.3	The importance of the written format and user characteristics	63
3.6	Conclusions	64
3.6.1	Limitations and future research	65
	References	65
	Appendix A	71
4.	Internal Open Innovation - Lessons Learned from Internal Crowdsourcing at SAP	72
4.1	Introduction	73
4.2	Theoretical background	75
4.2.1	Internal crowdsourcing	75
4.2.2	Internal open innovation with crowdsourcing.....	76
4.3	Managing the crowd.....	76
4.3.1	Corporate culture and change management	78
4.3.2	Incentive design	78
4.3.3	Task definition and decomposition	78
4.3.4	Quality assurance	79
4.3.5	Crowd selection	79
4.3.6	Regulations management.....	79
4.4	Methodology and case description	80
4.4.1	Company description	81
4.5	SAP's internal crowdsourcing initiatives	81
4.5.1	Initiative 1: The InnOvaTor challenge.....	82
4.5.2	Initiative 2: One Billion Lives (1BL).....	83
4.5.3	Initiative 3: Intrapreneurship with SAP.iO	85
4.5.4	Initiative 4: Internal crowdsourcing of human resources (HR).....	86
4.5.5	Initiative 5: SAP Blue	87

4.6	Lessons learned	91
4.6.1	Lesson 1: Provide dedicated time continuously.....	91
4.6.2	Lesson 2: Selection of solutions should be made by experts	91
4.6.3	Lesson 3: Promote bottom-up development, demand top-down support.....	92
4.6.4	Lesson 4: Better integration of internal crowdsourcing into the overall company-wide innovation process	93
4.6.5	Lesson 5: Encourage ownership of ideas	94
4.6.6	Lesson 6: Openness and transparency of the internal crowdsourcing process is key	94
4.7	Conclusion and limitations	95
4.7.1	Limitations	96
	References	97
5.	Final Conclusions.....	104
5.1	Results and contributions.....	104
5.2	Implications for practice.....	107
5.3	Suggestions for future research and final outlook	109
	References	114