



Maike Greve (Autor)

Exploring Mobile Health Technology for Development

An Investigation of Design and Action to foster Utility,
Scalability, and Sustainability of Interventions in the Global
South



Göttinger Wirtschaftsinformatik

Herausgeber: J. Biethahn[†] • L. M. Kolbe • M. Schumann

Maike Greve

Exploring Mobile Health Technology for Development

An Investigation of Design and Action to foster
Utility, Scalability, and Sustainability of
Interventions in the Global South

Band 113



Cuvillier Verlag Göttingen
Internationaler wissenschaftlicher Fachverlag

<https://cuvillier.de/de/shop/publications/8593>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentzsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen,
Germany

Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>

Table of Contents

Table of Contents	i
List of Figures	iv
List of Tables	v
List of Abbreviations	vi
A. Foundations	1
I. Introduction.....	2
I.1 Motivation	2
I.2 Research Gap and Research Questions	4
I.3 Structure of Thesis.....	9
I.4 Research Positioning, Design, and Space.....	11
I.5 Anticipated Contribution and Implications.....	15
II. Research Background.....	20
II.1 The Advent of Mobile Technology	21
II.2 Digitizing Healthcare and the Role of mHealth	24
II.3 Supporting Development Through Technology	27
II.4 Towards an Understanding of mHealth4D	29
B. Studies on mHealth in the Global South	33
I. Assessing the Status Quo	34
1. Study 1: Framing Research Questions Intersecting IS and Health.....	35
1.1 Introduction	36
1.2 Health in Information System Research	37
1.3 The Belief-Action-Outcome Framework Intervention Research.....	38
1.4 Research Approach	40
1.5 Results.....	41
1.6 Directions for Future Research.....	46
1.7 Concluding Remarks	48
II. Research in the Global South.....	49
1. Study 2: Fostering NCD Prevention in The Global South	50
1.1 Introduction	51

1.2	Background.....	52
1.3	Guiding Research Framework	55
1.4	NCD Prevention in Decentralized Healthcare: The Case of eSwatini	57
1.5	Research Approach	58
1.6	Results of the ADR Process of Designing an mHealth App	61
1.7	Discussion	74
1.8	Conclusion	78
1.9	Appendix.....	78
2.	Study 3: Overcoming Digital Challenges.....	82
2.1	Introduction.....	83
2.2	Conceptual Background.....	84
2.3	Hypotheses Development and Research Model.....	89
2.4	Research Design	90
2.5	Analysis and Results.....	93
2.6	Discussion	98
2.7	Concluding Remarks.....	101
III.	Synthesis of Knowledge	102
1.	Study 4: Healing the ‘Pilotitis’ in mHealth.....	103
1.1	Introduction	104
1.2	Background.....	105
1.3	Research Approach	110
1.4	A Holistic Stakeholder Perspective on the mHealth Intervention Process .	114
1.5	Discussion	125
1.6	Conclusion.....	131
1.7	Appendix.....	132
C.	Contributions	137
I.	Findings and Synthesis.....	138
I.1	Findings for the Status Quo of Health IS Research	138
I.2	Findings through Research in the Global South.....	140
I.3	Findings for Fostering Scalability and Sustainability	143
I.4	Synthesis of Findings.....	144

II.	Limitations and Implications	151
II.1	Limitations	151
II.2	Implications for Research and Practice	153
III.	Concluding Remarks.....	157
References		159
Appendix.....		xi
Appendix A.	Overview of the Contributions in the Studies of this Thesis	xii
Appendix B.	Overview of Further Published Studies (VHB A and B Only)	xiii
Appendix C.	Curriculum Vitae	xiv