

Table of Contents

| | |
|---|-----------|
| General Introduction | 1 |
| 1.1 Horticultural value chains in Kenya..... | 2 |
| 1.2 African Leafy Vegetables in Kenya | 3 |
| 1.3 Smallholder commercialization..... | 4 |
| 1.4 Social Networks Analysis..... | 6 |
| 1.5 Rationale of the study..... | 7 |
| 1.6 Objectives | 8 |
| 1.7 Theoretical framework | 8 |
| 1.8 Conceptual Framework | 10 |
| 1.9 Thesis outline | 12 |
| Chapter two..... | 19 |
| Who Really Links Smallholders to Agricultural Markets? A Social Network Analysis Perspective | 19 |
| 2.1 Introduction | 20 |
| 2.2 Data and Methods..... | 23 |
| 2.2.1 Study Area | 23 |
| 2.2.2 Data Collection..... | 24 |
| 2.2.3 Data analysis..... | 25 |
| 2.3 Results and Findings | 26 |
| 2.3.1 ALV Market Channels and Setbacks in Accessing Preferred Markets | 26 |
| 2.3.2 Smallholder market linkage channels..... | 28 |
| 2.3.3 How smallholder market linkage occurs | 31 |
| 2.4 Discussion | 35 |
| 2.5 Conclusion | 38 |
| Chapter three..... | 45 |
| Institutional Analysis of Rules Governing Trade in African Leafy Vegetables and Implications for Smallholder Inclusion: Case of Schools and Restaurants in Rural Kenya . | 45 |
| 3.1 Introduction | 46 |
| 3.2 Data and Methods..... | 51 |
| 3.3 Results..... | 55 |
| 3.3.1 Information rules | 55 |
| 3.3.2 Market entry and participation rules..... | 59 |
| 3.4 Discussion | 64 |
| 3.5 Conclusion and recommendations | 68 |

| | |
|--|------------|
| Chapter Four | 77 |
| Social Networks and Commercialization of African Indigenous Vegetables in Kenya: A Cragg’s Double Hurdle Approach | 77 |
| 4.1 Introduction | 78 |
| 4.2 Data and methods | 82 |
| 4.2.1 Model description | 83 |
| 4.2.2 Descriptive statistics | 85 |
| 4.3 Results | 89 |
| 4.4 Discussion | 91 |
| 4.5 Conclusion and Policy recommendations | 93 |
| Chapter 5 | 99 |
| General Discussion | 99 |
| 5.1 Introduction | 100 |
| 5.2 Methodological approaches | 100 |
| 5.2.1 Household survey..... | 100 |
| 5.2.2 Qualitative interviews | 101 |
| 5.2.3 Network survey | 101 |
| 5.3 Data analytical methods | 102 |
| 5.3.1 Network analysis..... | 102 |
| 5.3.2 Institutional analysis | 103 |
| 5.3.3 Econometric Analysis | 104 |
| 5.4 Empirical findings | 105 |
| 5.4.1 Objective 1: Network mapping and analysis | 105 |
| 5.4.2 Objective 2: Institutional analysis of rules..... | 106 |
| 5.4.3 Objective 3: Effects of social networks on ALV commercialization..... | 107 |
| 5.5 Recommendations | 109 |
| 5.5.1 Policy Recommendations..... | 109 |
| 5.5.2 Recommendation for further studies..... | 110 |
| ZUSAMMENFASSUNG | 116 |
| AUTOBIOGRAPHY | 118 |
| ACKNOWLEDGMENTS | 121 |