



Contents

Acknowledgments	iii
Table of Contents	v
List of Tables	xi
List of Figures	xiii
List of Abbreviations	xvii
Abstract	xix
Zusammenfassung	xxv
Chapter 1	
Introduction	1
1.1 Background	1
1.2 Problem Statement	2
1.3 Research Objectives	5
1.4 Structure of the Study	5
Chapter 2	
General Research Design	9
2.1 Conceptual Framework	9
2.2 Research Approach	10
2.3 The Research Steps	10
2.4 Study Area	11
2.5 Data Needs and Collection	11
2.6 Data Processing and Analysis	14
2.6.1 Cluster Analysis	14
2.6.2 GIS Application	16
2.6.3 Scenario Building.....	17
Chapter 3	
Urbanization and Rural-Urban Transition in Asia: Some Empirical Evidences, Theoretical Perspectives, and Policy Implementation	19
3.1 Urbanization in Asian Developing Countries	20
3.1.1 Challenges to Urbanization in Asia	20
3.1.2 What is Urbanization?	21
3.1.3 Urbanization and Its Implication to Rural-Urban Transition in Asian Developing Countries	22



3.1.4 Spatial Implication: the Emergence of Mega Urban, Peri-Urban, and the Important Role of Small-Intermediate Urban Centres.....	28
3.1.5 Disparities: Some Emerging Issues and Policy Distortion.....	34
3.2 Theoretical Perspective on Urbanization and Rural-Urban Transition.....	36
3.2.1 Perspectives on Development Economics.....	37
3.2.1.1 Dualism in Development Economics.....	38
3.2.1.2 Agricultural Transformation.....	39
3.2.2 Perspectives on Regional Development Approaches.....	41
3.2.2.1 What is Regional Development?.....	41
3.2.2.2 Top-Down Approach: Balanced and Unbalanced Development	43
3.2.2.3 Bottom-up Approach: Response to the Failure of Growth-Centre Approach.....	46
3.2.2.4 The Changing Paradigm: Local Economic Development and Sustainable Development Concept.....	48
3.2.2.5 Rural-Urban Linkages: Scopes and Issues in Regional Development Planning.....	51
3.3 International Experiences to Promote Balanced Development.....	54
3.3.1 Polycentric Development.....	54
3.3.2 Rural Based Development.....	55
3.3.3 Success Story of Rural-Urban Transformation in Asia: ‘East Asian Model’.....	57
3.3.4 Endogenous Growth and Decentralization Policy in Asian Developing Countries.....	59
3.4 Concluding Remarks: the Existence of Rural-Urban Regions as Particular form of Urbanization and Rural-Urban Transition in Asia’s Developing Countries.....	62

Chapter 4

Development Planning Policies Implementation in Indonesia:

From Unbalanced to Balanced Development Approaches.....	63
4.1 Government Hierarchy.....	63
4.2 Development Planning Policies in Indonesia.....	65
4.2.1 Sectoral Development Planning Towards Integrated Spatial Development Planning Policies.....	65
4.2.2 Development Planning Policies in Indonesia.....	67
4.3 Historical Context: Indonesia Towards a Balanced Development.....	69
4.3.1 New Order Era: Unbalanced Development.....	69
4.3.2 Decentralization Era: Course to Balanced Development.....	74
4.4 Concluding Remarks: Policy Outcome and Trend for the Future.....	77



Chapter 5	
Brief View of Urbanization in Central Java Province:	
Inter and Intra - Regional Perspectives	79
5.1 Urban Population and Density.....	79
5.2 Share of Built-up Areas and Land Conversion	83
5.3 Performance of GDP, Employment, and Unemployment	86
5.4 Concluding Remarks: Urbanization in Urban and Non-Urban Districts in Central Java Province	89

Chapter 6	
Applying Cluster Analysis to Create Rural-Urban Typology in Central Java Province	91
6.1 Steps of Clustering Analysis	91
6.2 Stepwise Analysis: Assessment of the Variables	92
6.3 Cluster Solution and Dendogram Interpretation	96
6.4 Cluster Validation based on Discriminant Analysis	105
6.5 Robustness Analysis of the Clustering Solution.....	107
6.6 Rural-Urban Transition in Central Java Province: Some Discussions on Clustering Result	109
6.6.1 Urbanization and Rural-Urban Transition: the Need to Seek more Balanced Patterns	109
6.6.2 Rural and Urban Population Changes	110
6.6.3 Economic Structural Changes.....	115
6.6.4 Poverty and Unemployment	118
6.6.5 Some Remarks for Future Spatial Development Pattern	120

Chapter 7	
Scenario for Future Spatial Formations in Central Java Province	121
7.1 Steps in Scenario Building.....	121
7.2 Macro Framework: Scenario Building for Future Spatial Formation.....	122
7.2.1 Step One: Define Core Issue for Options of Future Possibilities.....	122
7.2.2 Step Two: Outline Driving Forces	123
7.2.3 Step Three: Analyze Scenario Logics.....	127
7.2.4 Step Four: Identify Key Factors Affecting Options of Future Possibilities	134
7.3 Flesh Out Scenarios: National Setting	135
7.3.1 A Brief View of Trend and the Current National Situation	135
7.3.2 General Scenario Path	140



7.4 Flesh Out Scenarios: Scenario Path for Central Java Province	145
7.4.1 Economic Stimulus	145
7.4.2 Infrastructure Development.....	148
7.4.3 Population Distribution	149
7.4.3.1 Population Projection: Some Assumptions	149
7.4.3.2 Kernel Density	151
7.4.3.3 Trend of Population Distribution: Shrinking and Developed Regions	155
7.4.4 Land Allocation: Land Use Coefficient, Land Demand, and Land Potential.....	156
7.4.5 Good Governance Implementation.....	166
7.4.6 Scenarios for Future Spatial Formations in Central Java Province ...	167

Chapter 8

Conclusions and Policy Recommendations	173
8.1 Brief Overview of Research Findings: Rationale for Policy Recommendations	173
8.2 Policy Challenges	177
8.2.1 A Shift to a New Format of Regional Development Policy	177
8.2.2 From Decentralization to Regional Urbanization	181
8.2.3 Environmental Sustainability and Food Security	182
8.3 Policy Recommendations	184
8.3.1 New National Regional Policy Framework	184
8.3.2 Regional Policy Framework for Central Java	189
8.3.3 Institutional Basis	194
8.4 Future Research Agenda.....	197
REFERENCES	199

APPENDIX:

Appendix A: Thematic Maps

A.1 Administrative Map.....	211
A.2 Topographic Map	212
A.3a Land Use 1994.....	213
A.3b Land Use 2006.....	213
A.4 Disaster Prone Area.....	214
A.5a Population in Sub-district Level, 2000.....	215
A.5b Gross Population Density with Proportional Symbols, 2000	215
A.6 Gross Domestic Product (GDP), 2000.....	216



Appendix B: Classification to Define Urban / Rural Places217

Appendix C: Cluster Analysis

C.1 List of Parameters for Cluster Analyses (Before selection)220
C.2 Data Compilations: Physical Environment and Population222
C.3 Data Compilations: Economic224
C.4 Data Compilations: Socio-Political.....227

Appendix D: GIS Application

D.1 Network Analyst: Closest Facility Analysis228
D.2 Kernel Density Calculation229
D.3 Model Builder for Land Use Change Scenario230