List of Figures

Figure 2.1	Gross Domestic Product (expenditure, nominal) and Local Public Finance (FY2017)	17
Figure 2.2	Share of Expenditures by Purpose of Central and Local Governments (final expenditure based)	18
Figure 2.3	Population Projections for Japan	19
Figure 2.4	Relationship Between Size and Political Competence in Local Government	21
Figure 2.5	Need for Regional Administrative Involvement	21
Figure 2.6	Regional Governence	23
Figure 2.7	Change in Number of Basic Local Government Municipalities	25
Figure 2.8	Change in Number of Affiliated Entities of IMC	30
Figure 2.9	Change in Number of Affairs of IMC	31
Figure 2.10	The Structure of a Partial Affairs Association	32
Figure 2.11	Number of Affiliated Entities of Partial Affairs Association (FY2018)	34
Figure 2.12	Change in Number of Affairs	35
Figure 2.13	Relationship Between the Number of Municipalities and that of Inter-Municipal Cooperation by Prefecture $(r = .489)$	36
Figure 2.14	Relationship Between the Number of Municipalities per Prefecture and the Number of Partial Affairs Associations per Prefecture ($r = .821$)	37
Figure 2.15	Structure of Partial Affairs Associations	38
Figure 2.16	Required Items of Partial Affairs Associations	39
Figure 2.17	Partial Affairs Associations' Administrator: Change of Election Methods	40
Figure 2.18	Types of Problems with Partial Affairs Associations	44
Figure 2.19	Distribution of Affiliates as of 2018	45
Figure 2.20	Relationship of the Number of Municipalities and the Number of Mini-Partial Affairs Associations by Prefecture	45

Figure 2.21	Change in Number of Partial Affairs Associations by Number of Affiliated Entities	46
Figure 2.22	Affairs, Delegation of Duty	47
Figure 2.23	Types of Problems with the Delegation of Duties	48
Figure 2.24	Garbage Disposal, Situation of Cooperation (FY2018)	49
Figure 2.25	Average Number of Affiliated Entities (FY 2018)	50
Figure 2.26	Garbage Disposal Cooperation, Change of Number	51
Figure 2.27	Garbage Disposal: Change in Numbers	52
Figure 2.28	Garbage Disposal: Change of Number of Affiliated Entities	53
Figure 2.29	Expenditure Size of Environment: Public Affairs Associations and other Municipal Methods	54
Figure 2.30	Change of Environmental Sanitation Expense by Function	54
	(FY2011/2010)	
Figure 2.31	Change of Environmental Sanitation Expense by Characteristics (FY2011/2010)	55
Figure 2.32	Environment Public Affairs Associations: Change of Expenditure Size	55
Figure 2.33	Number of Cases, Delegation of Duties of Environment	56
Figure 2.34	Survey at Osaka Bay	57
Figure 2.35	Plastic Garbage Harvested from Osaka Bay	57
Figure 3.1	Waste Disposal Methods by Region	63
Figure 3.2	SWOT Analysis of Inter-municipal Cooperation on MSW Management in Japan	76
Figure 6.1	West Java Province	137
Figure 6.2	Scheme Cooperation for Waste-to Energy Development	147
	in TPPAS Legok Nangka	
Figure 7.1	IFLS Communities in Urban Areas (2000)	159
Figure 7.2	Descriptive Statistics: Access to Public Garbage Pickup Service by Households in Districts that did or did not Experience a Split from 1993 to 2014	160
Figure 8.1	Types of Public–Private Partnership	174

List of Tables

Table 1.1	Some Cases of Regional Waste Management in India	4
Table 1.2	Types of Regional Municipal Solid Waste Management	6
Table 2.1	Classification and Number of Ordinary Local Governments (as of 1 July 2019)	12
Table 2.2	Authority and Responsibilities of Three Tiers of Government, Japan	15
Table 2.3	Changes in the Number of Municipalities	24
Table 2.4	Comparison of Countries	27
Table 2.5	Types of Inter-Municipal Cooperation	29
Table 2.6	Merits of Partial Affairs Associations	33
Table 2.7	Issues of Wide-area Government (as of 31 December 2012)	43
Table 3.1	Inter-municipal Cooperation for MSW in Three Perspectives	65
Table 3.2	Different Types of Regional Cooperation and Centralisation	68
Table 4.1	Literature of Economies of Scale and Contracting out to Private Companies in Waste Management	88
Table 4.2	Descriptive Statistics of Municipalities and Inter-Municipalities for Waste Collection in Japan	93
Table 4.3	Descriptive Statistics of Municipalities and Inter-Municipalities for Intermediate Disposal in Japan	94
Table 4.4	Descriptive Statistics of Municipalities and Inter-Municipalities for Final Disposal in Japan	95
Table 4.5	Descriptive Statistics of Municipalities and Inter-Municipalities for Collection in Japan	97
Table 4.6	Descriptive Statistics of Municipalities and Inter-Municipalities for Intermediate Disposal in Japan	99
Table 4.7	Descriptive Statistics of Municipalities and Inter-Municipalities for Final Disposal in Japan	101

Table 4.8	Estimation Results of Average Costs of Waste Collection in Japan	103
Table 4.9	Estimation Results of Average Costs of Intermediate Disposal in Japan	104
Table 4.10	Estimation Results of Average Costs of Final Disposal in Japan	104
Table 4.11	Estimation Results of Average Costs of Waste Collection in Japan	108
Table 4.12	Estimation Results of Average Costs of Intermediate Disposal in Japan	110
Table 4.13	Estimation Results of Average Costs of Final Disposal in Japan	112
Table 4.14	Descriptive Statistics in the Philippines	117
Table 4.15	Estimation Results of Waste Management Costs in the Philippines	118
Table 6.1	Internal–external Analysis the Role of BPSR	143
Table 6.2	Internal-external Analysis of TPPAS Legok Nangka Cooperation	151
Table 7.1	Estimation Results: All Households in Urban Areas from 1993 to 2014	162
Table 7.2	Robustness Check	164
Table 8.1	Important Actions of Thai Government for Municipal Solid Waste Management Between 2014 and 2019	168