

Contents

I INTRODUCTION	1
1.1 OVERVIEW	1
1.2 GOAL	2
1.3 STRUCTURE OF THE PROJECT	3
2 INTRODUCTION TO LOCAL PUBLIC TRANSPORT IN CROSS-BORDER AGGLOMERATIONS	4
2.1 BASIC DEFINITIONS AND DELIMITATIONS	4
2.1.1 Introduction	4
2.1.2 Cross-Border Agglomerations	4
2.1.3 Local Public Transport	10
2.2 CHARACTERISTICS OF CROSS-BORDER AGGLOMERATIONS	11
2.2.1 Introduction	11
2.2.2 Borders	11
2.2.3 Cross-Border Mobility	18
2.2.4 Organisational Structures	23
2.3 ORGANISING LOCAL PUBLIC TRANSPORT	25
2.3.1 Introduction	25
2.3.2 Legislator	25
2.3.3 Governments and Public Transport Authorities	26
2.3.4 Transport Operator Companies	28
2.3.5 Transport Associations	29
2.3.6 Process of Establishing Service Offers	29
2.3.7 Rolling Stock / Fleet of Vehicles	31
2.3.8 Infrastructures	34
2.3.9 Fares	35
2.3.10 Personnel and Customers	38
2.4 HISTORICAL DEVELOPMENT OF CROSS-BORDER LOCAL PUBLIC TRANSPORT ..	43
2.4.1 Introduction ..	43
2.4.2 Before 1914	43
2.4.3 1914-1939 ..	48
2.4.4 1939-1970 ..	49
2.4.5 1970-Today ..	51
2.5 LITERATURE SYNTHESIS	53
2.5.1 Border Effect on Public Transport Framework Conditions	53
2.5.2 Border Effect on Demand for Public Transport	53
2.5.3 Border Effect on the Provision of Public Transport	54
3 RESEARCH INTERESTS	55
3.1 FRAMEWORK CONDITIONS	55
3.2 DEMAND	56
3.3 SERVICE OFFER ..	57
4 METHODOLOGY	58
4.1 OVERVIEW	58
4.2 SPATIAL ANALYSIS	59
4.3 PASSENGER SURVEY	64
4.4 CASE STUDIES	68
4.4.1 Introduction	68
4.4.2 Basel	69
4.4.3 Geneva	70
4.4.4 Lille	71
4.4.5 Strasbourg	72

5	SPECIFIC DEMAND CHARACTERISTICS	73
5.1	TOPOLOGY AND LAND USE.....	73
5.1.1	Introduction.....	73
5.1.2	Cross-Border Transport Network	73
5.1.3	Settlement Density	81
5.1.4	Public Transport Coverage	88
5.2	DEMAND STRUCTURE	93
5.2.1	Introduction.....	93
5.2.2	Quantities and Modal Split	93
5.2.3	Trip Purposes	95
5.2.4	Temporal Distribution	99
5.2.5	Consequences.....	100
5.3	CUSTOMERS' PERSPECTIVE.....	100
5.3.1	Introduction.....	100
5.3.2	Motivation to Use Local Public Transport.....	101
5.3.3	Motivation for Domestic / Cross-Border Trip.....	103
5.3.4	Frequency of Use	106
5.3.5	Satisfaction about Local Public Transport.....	107
5.3.6	Consequences.....	112
6	SPECIFIC SERVICE CHARACTERISTICS	114
6.1	ORGANISATIONAL STRUCTURES.....	114
6.1.1	Cross-Border Cooperation of Authorities	114
6.1.2	Cross-Border Cooperation of Transport Operator Companies	118
6.2	QUANTITY AND QUALITY OF SERVICES.....	121
6.2.1	Service Quantity.. ..	121
6.2.2	Service Quality.....	135
6.3	FARES.....	137
6.3.1	Fare Areas	137
7	SYNTHESIS OF RESULTS.....	141
7.1	CHARACTERISTICS OF CROSS-BORDER AND DOMESTIC LOCAL PUBLIC TRANSPORT.....	141
7.1.1	Framework Conditions.....	141
7.1.2	Demand	143
7.1.3	Service Offer.....	145
7.2	FIELDS OF ACTION AND APPROACHES	148
7.2.1	Introduction.....	148
7.2.2	Political Will	148
7.2.3	Legal and Administrative Framework	149
7.2.4	Cooperation, Coordination and Exchange among Local / Regional Governments and Authorities	150
7.2.5	Uniformity of Public Transport and Its Limits	151
8	CONCLUSION.....	154
8.1	RECAPITULATION OF KEY RESULTS.	154
8.1.1	Nature of Differences.....	154
8.1.2	Key Approaches.....	155
8.2	CONCLUDING REMARKS AND PERSPECTIVES FOR FURTHER RESEARCH.....	157
8.2.1	Discussion of Applied Methods.....	157
8.2.2	Generalisability of Findings.....	157
8.2.3	Success Factors	158
8.2.4	Perspectives for Further Research	159
	BIBLIOGRAPHY	160
	APPENDIX	170