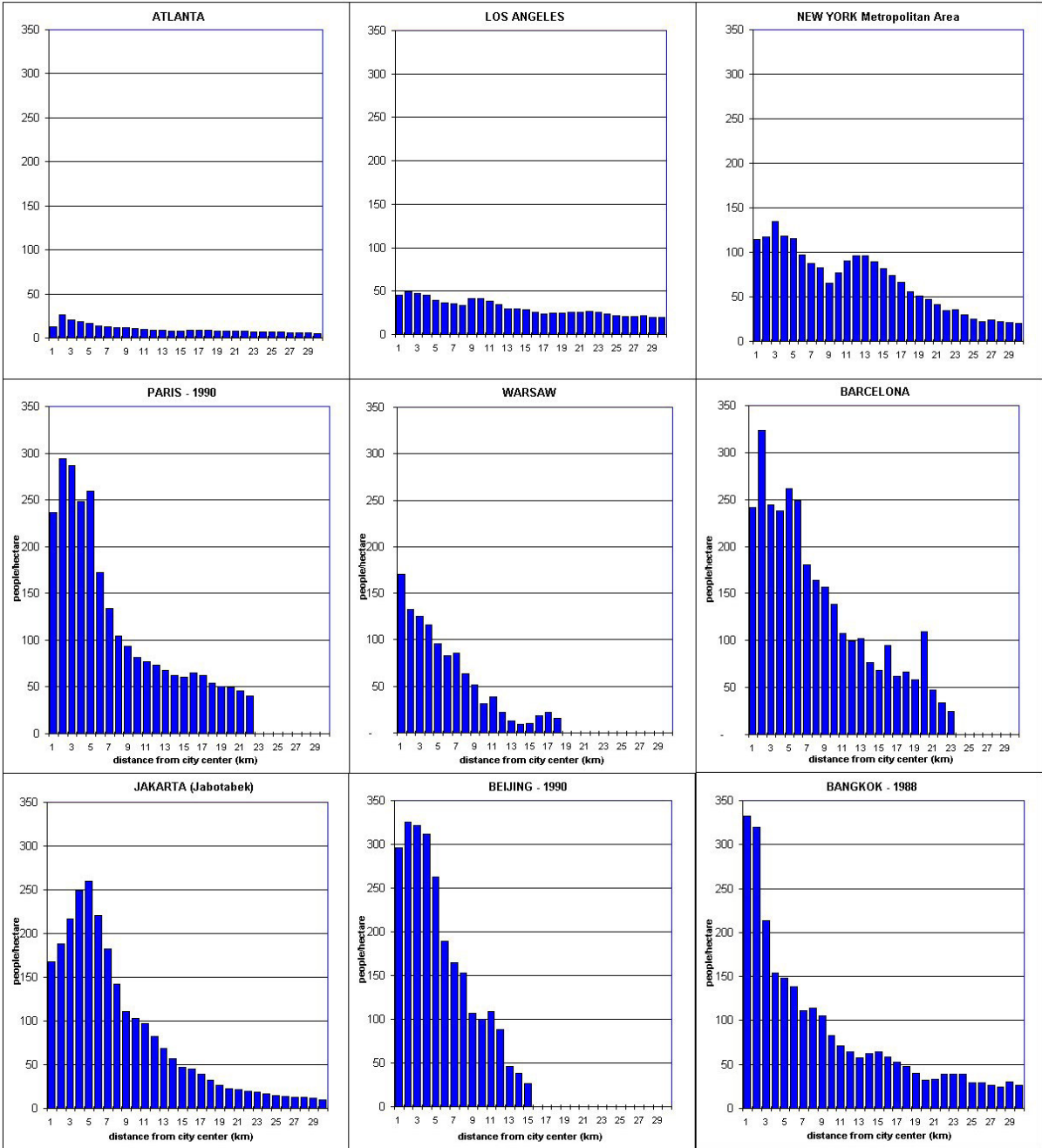


APPENDIX 1: Density profile examples (1)

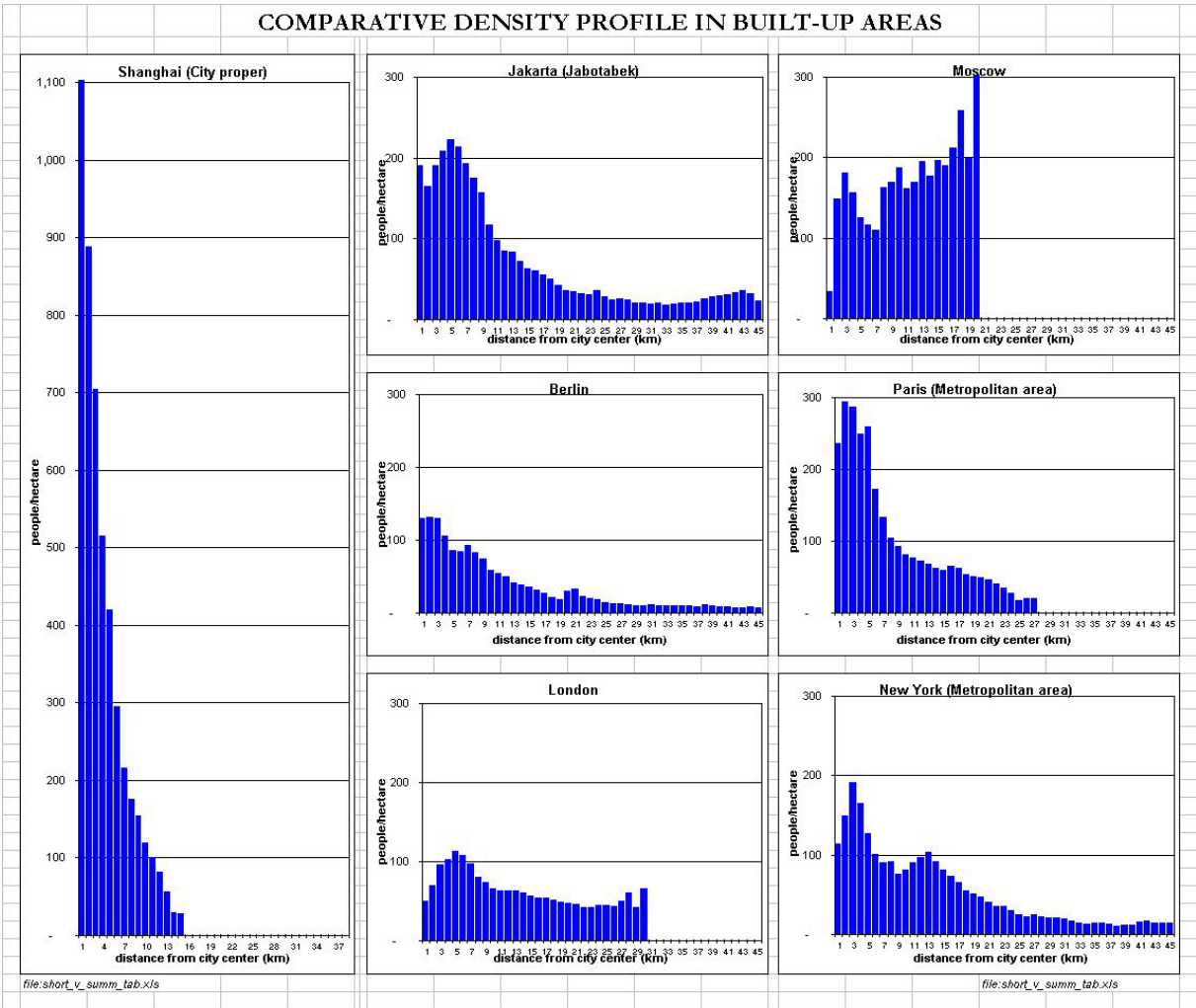
COMPARATIVE POPULATION DENSITIES IN THE BUILT-UP AREAS OF SELECTED METROPOLITAN AREAS



from "Order Without Design", Alain Bertaud, 2002

From *order without design*, Alain Bertaud, 2002

APPENDIX 2: Density profiles examples (2)



From *order without design*, Alain Bertaud, 2002

APPENDIX 3: Evolution and prediction of land uses area

Table 1. Land use in the Netherlands 1890-1996 (*hectares*)

	1890	1930	1950	1970	1985	1996
Agriculture	2,157,269	2,340,610	2,512,900	2,519,497	2,395,924	2,350,807
Wood&nature	835,014	681,528	506,319	497,087	450,024	461,177
Urb. functions	123,739	144,093	191,405	268,868	416,217	441,317
Infrastructure	29,218	41,178	89,591	92,255	129,682	134,048
Water	1,007,378	945,209	852,403	774,911	760,771	765,269
<i>Total</i>	<i>4,152,618</i>	<i>4,152,618</i>	<i>4,152,618</i>	<i>4,152,618</i>	<i>4,152,618</i>	<i>4,152,618</i>

Source: Ministerie VROM 2001/CBS Bodemstatistiek

Table 2. Predicted land use demand 2000-2030 (*hectares*)

	Low growth scenario	High growth scenario	Present land use total
Housing	39,000	85,000	224,000
Business sites	32,000	54,000	96,000*
			454,000
Infrastructure	35,000	60,000	134,000
Recreation	144,000	144,000	83,000
Wood&nature	333,000	333,000	461,000
Agriculture	-170,000	-475,000	2,351,000
Water	490,000	490,000	765,000

Source: Ministerie VROM 2001

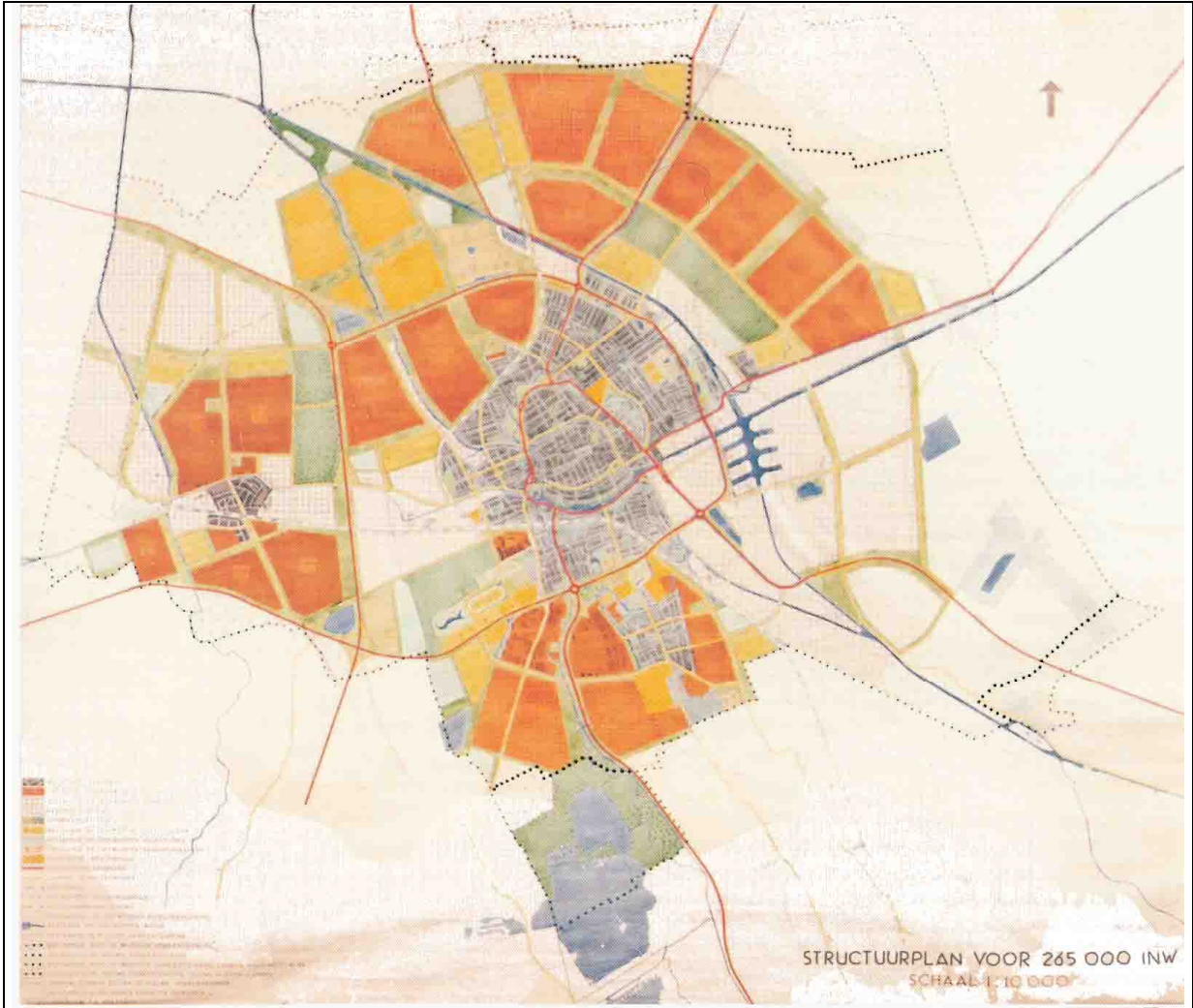
*estimate

Source: VROM (2001) in Pellenburg and van Steen, (2001)

APPENDIX 4 : List of interviewees

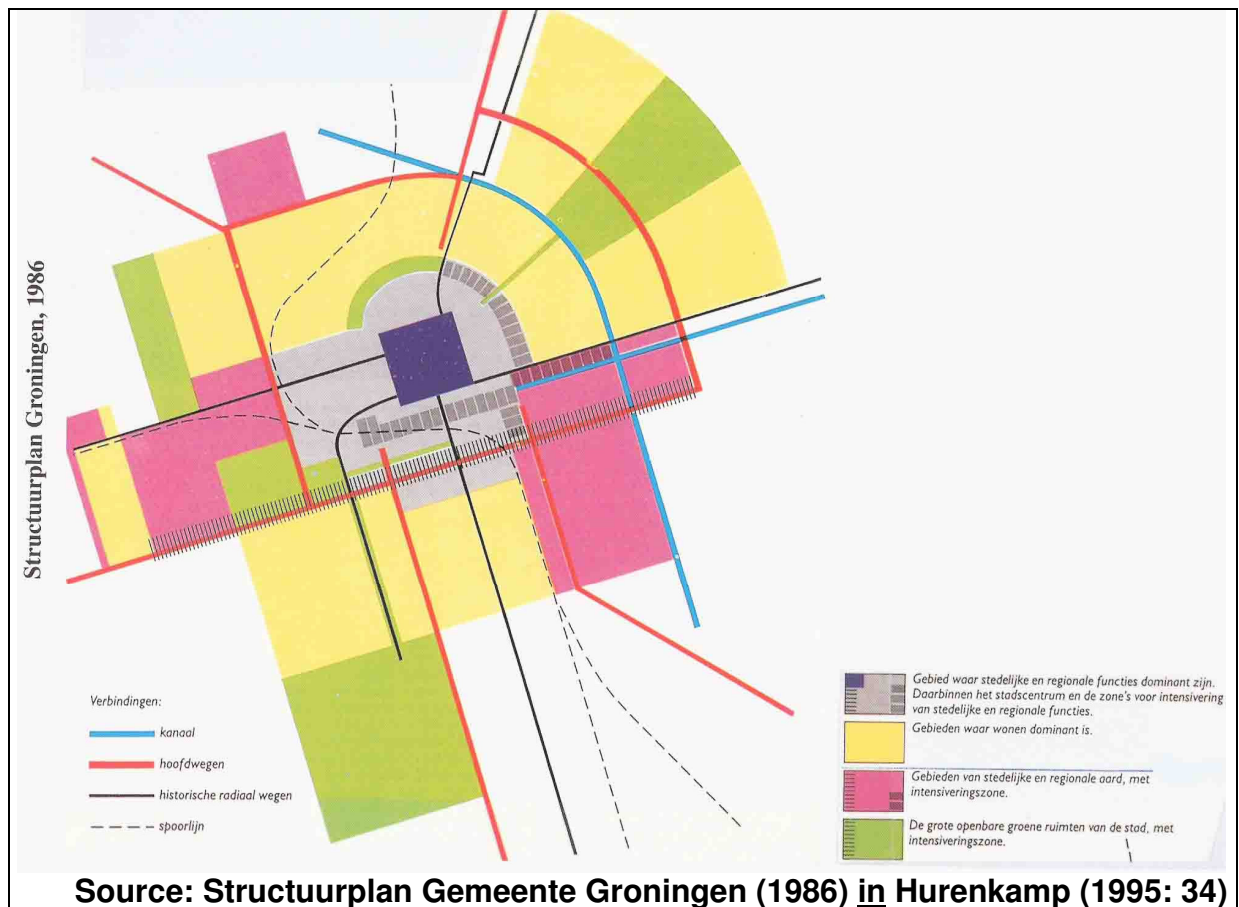
- Gerard Tolner and (*municipality of Groningen*)
- Laurens Huis in 't Veld (*municipality of Groningen*)
- Frans Spakman (*Province of Groningen*)
- Hero Havenga (*Region Groningen-Assen*)
- Hans Westra (*Bureau Meerstad*)
- Martin Elfrink (*HKB*)

APPENDIX 5 : Structure plan of 1961

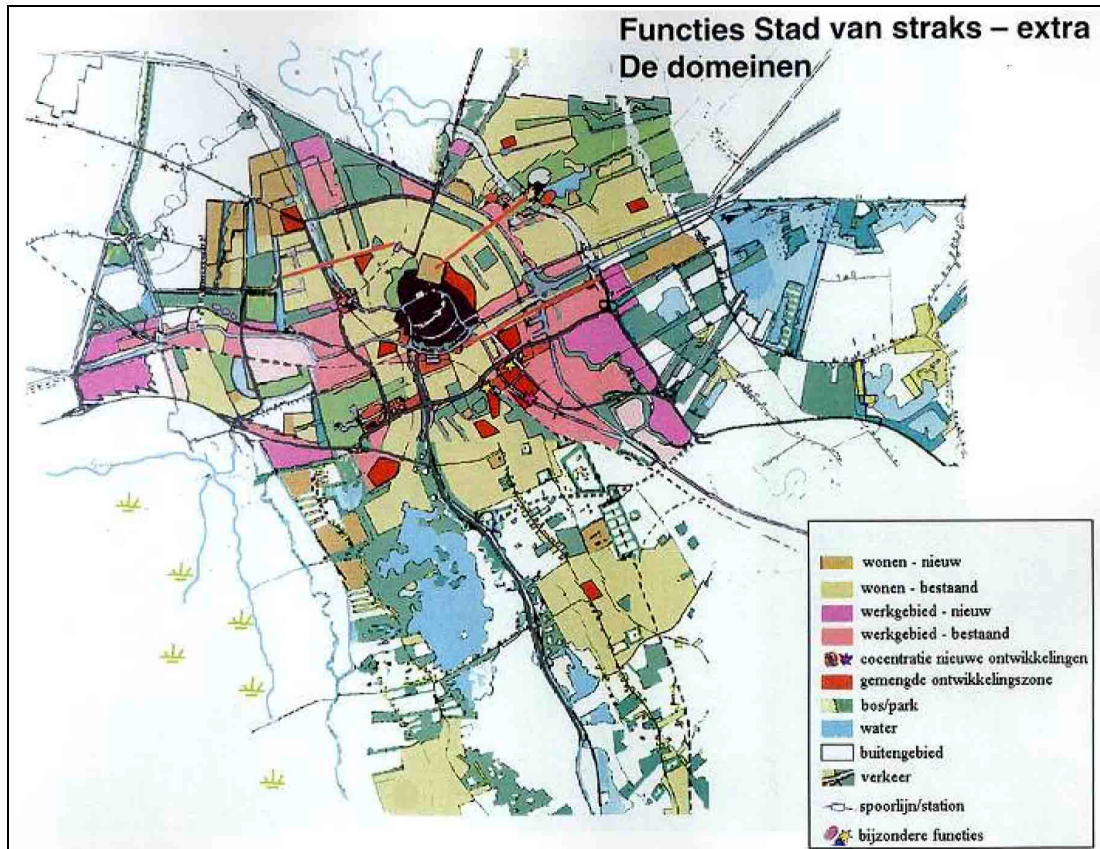


Source : Structuurplan Gemeente Groningen (1961) in Hurenkamp (1995 : 28)

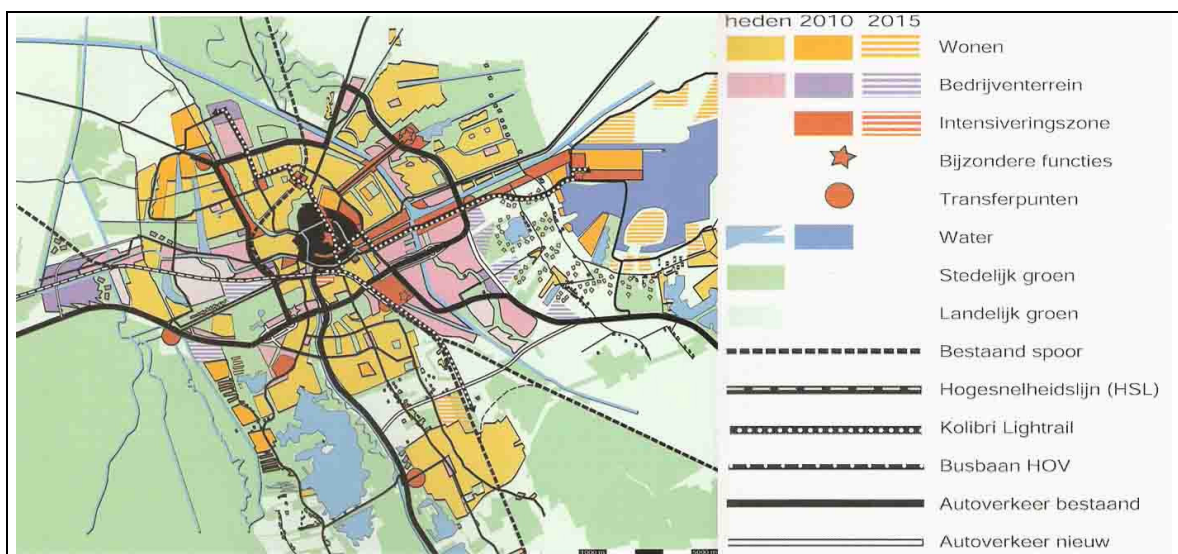
APPENDIX 6 : Structure plan of 1986 (compact city)



APPENDIX 7 : Actualisations of structure plan (1999 & 2004)

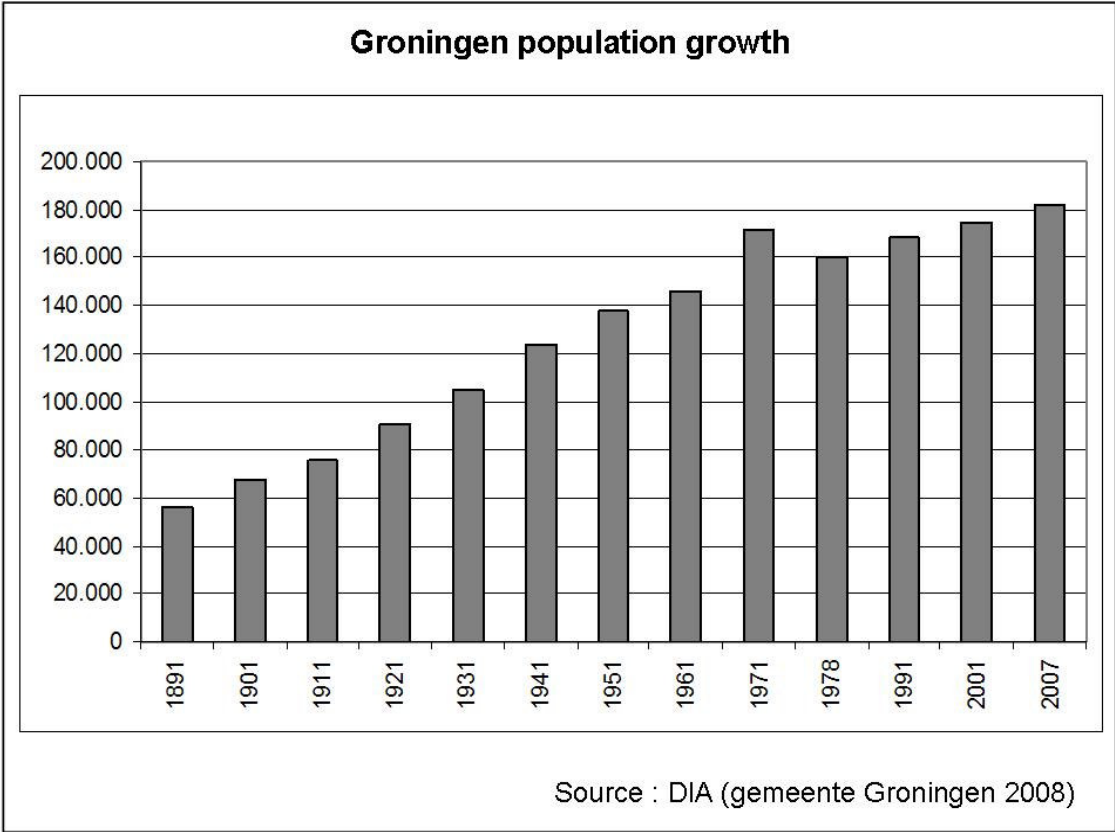


Source: Structuurplan (actualisation) Gemeente Groningen (1999)

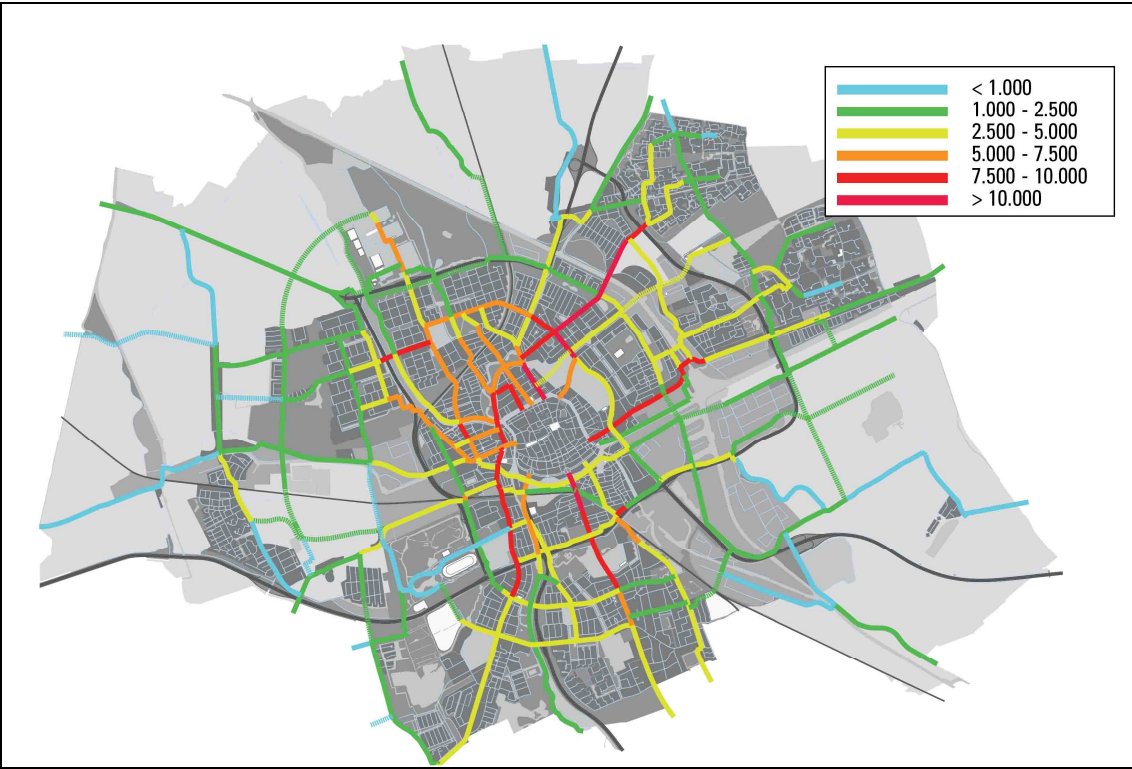
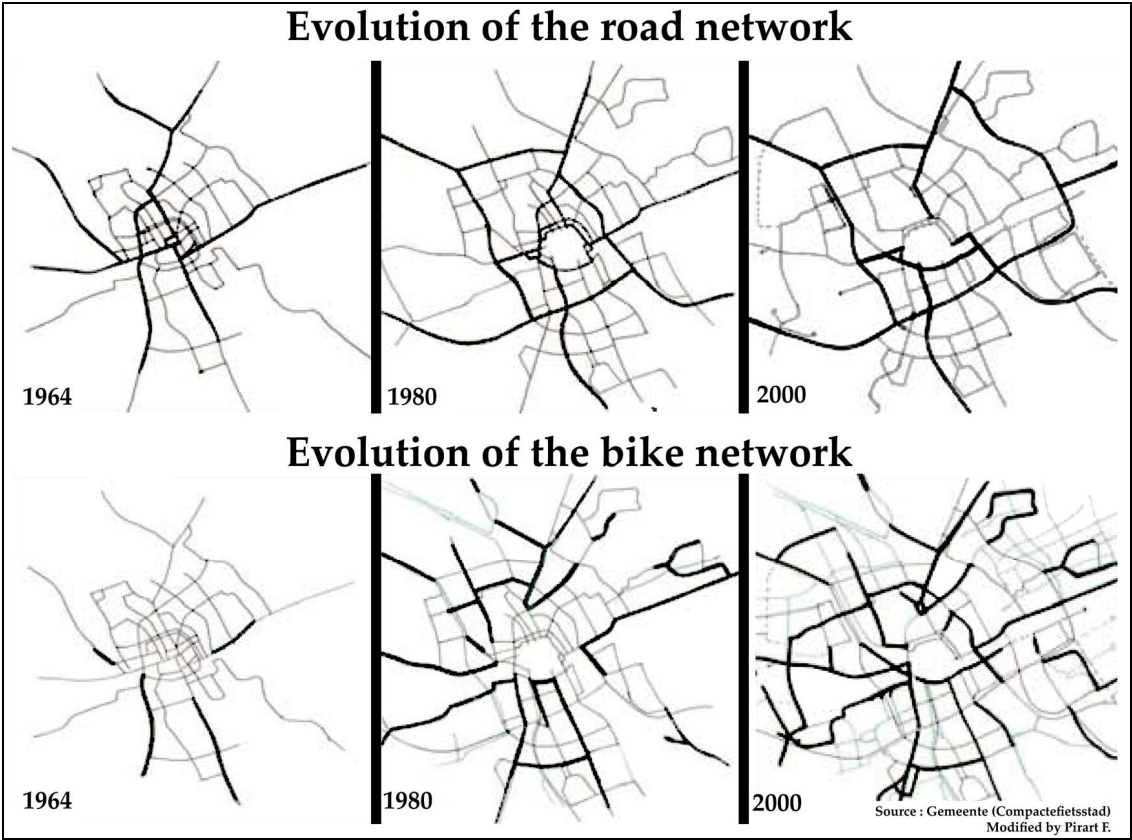


Source: Structuurplan (actualisation) Gemeente Groningen (2004)

APPENDIX 8 : Historical population growth in Groningen



APPENDIX 9 : Road and bike network evolution



Source : Fiets Beraad (2006)