









































Model	Best W-matrix	\overline{R}^{2}
Weighted least squares (WLS)	not needed	0.5347
Spatial error model (SEM)	W _a : <i>not needed</i> W _e : 3 network neighbours	0.5749
Spatial autoregressive model (SAR)	W _a : 4 network neighbours W _e : <i>not needed</i>	0.5518
General spatial model (SAC)	W _a : 4 network neighbours W _e : 3 network neighbours	0.5827



	SAR error	SAR lag	SAC
Explanatory variables	coeff.	coeff.	coeff
Speed-limit	0.254	0.272	0.26
Highways: Constant	96.456	38.421	83.897
Trunk roads: Constant	56.704	26.84	51.512
Collector roads: Constant	54.042	30.047	51.287
Distributor roads: Constant	38.941	24.363	38.9
Urban roads: Constant	30.332	20.189	30.428
Curveness	-3.592	-4.248	-3.59
Distributor: PuT stops density,r=0.5km	-0.083	-0.186	-0.14
Urban: PuT stops density, r=0.2km	-0.095	-0.073	-0.094
Highways: In(popul, r=5km)	-7.978	-2.073	-5.962
Trunk roads: In(popul,r=2km)	-3.602	-1.497	-3.1
Collector roads: In(employm,r=2km,kernel)	-3.429	-2.04	-3.452
Distributor roads: In(employm,r=1km,kernel)	-1.081	-0.881	-1.244
Urban roads: In(employm,r=0.5km,kernel)	-0.501	-0.404	-0.554
Urban roads: Ramps' dens, r=1km	0.346*	-0.054	-0.049
Distributor roads: Road density, r=500 m	-0.271	-0.133	-0.256
Urban roads: Road density, r=100 m	-0.112	-0.093	-0.11

Estimation and	comparison	of models	(cont.)	
Estimation and	companison	or modely	(

Y = Average daily speed	SAR error	SAR lag S	AC
Lamda	0.928	-	0.742
Rho	-	0.459	0.215
Log-likelihood	-705197	-733084	-694294
AIC	1410453	1466226	1388647
Residuals spatial auto-correlation	0.013	0.342	-0.034
OLS AIC		1615760	
OLS Log-likelihood		-807851.	8

Model	2% range	5% range	15% range	30% range	SDE	ME
OLS	8.01%	20.35%	57.07%	84.69%	27.25%	-5.13%
SARerror	21.25%	47.20%	81.07%	93.68%	16.81%	-2.05%
SARlag	14.57%	35.27%	75.31%	90.88%	19.33%	-2.58%
Durbin	20.63%	46.19%	81.18%	93.95%	16.81%	-2.05%
SAC	21.09%	47.26%	81.92%	94.05%	17.04%	-1.92%





























Variable	beta (All)		beta (Agglo)	
Intercept	6.26	***	6.18	***
Year 2005 dummy (time-effect)	0.08	***	0.08	***
Year 2010 dummy (time-effect)	0.12	***	0.11	***
Ln car accessibility	0.01	***	0.03	***
Ln public transport accessibility	0.02	***	0.02	***
Ln number of local employed	0.02	***	0.01	***
Commuter from outside Switzerland	-0.10	***	-0.12	***
Short residence permit	-0.15	***	0.06	
Average duration in-post	0.003	***	0.004	***
Ln average age	0.41	***	0.34	***
Men	0.14	***	0.09	***
Ν	1374			
Rho	0.28	***	0.28	***

Variable	beta (All)		beta (Agglo)	
Tertiary education	0.76	***	0.70	***
Professional training	0.37	***	0.33	***
Further vocational training	0.23	***	0.19	***
Teaching degree	0.35	***	0.43	***
Highschool diploma	0.34	***	0.43	***
Vocational training	0.07	***	0.09	***
Positions with highest demands	0.45	***	0.55	***
Positions with qualified indep. work	0.24	***	0.30	***
Positions with professional skills	0.17	***	0.16	***
Working (3rd sector)	0.18	***	0.26	***
Working (private sector)	-0.08	***	-0.03	**
Working (manufacturing)	-0.21	***	-0.21	***
Working (FIRE)	0.13	***	0.17	***
Working (hotel, restaurants)	-0.12	***	-0.160	***

Model	2000	2005	2010
OLS	1.80%	1.60%	1.50%
Spatial error	1.60%	1.30%	1.20%
Pooled OLS			1.20%
Pooled OLS for 2005-2010			0.70%
Time-effects			2.00%
Time-effects for 2005-2010			1.50%
SER pooled OLS			0.90%
SER pooled OLS for 2005-2010			0.20%
SER with time-effects			1.70%
SER with time-effects for 2005-2010			1.20%











