

Supplementary Material

Tabel S1: Description of vehicle counters used in the study. The table include number of counting place, naming of traffic section, locations of the counters in Slovenian coordinate system D96/TM (EPSG:3794), average number of vehicles in year 2021 and average daily vehicle number.

Number	Counting place	Traffic section	E	N	Average number of vehicles in year 2021	Average daily number of vehicles
1	1005	Razcep Zadobrova	467338	103509	33,965	2,913
2	¹	Ind. cona Moste - Zaloška	465948	103176	69,000	3,396
3	¹	Zaloška – Litijska	465947	103156	60,000	3,357
4	180	Litijska – Malence	466666	99075	57,633	3,394
5	1018	Litijska - Malence	465687	97380	37,092	2,867
6	2408	Malence - Dolenjska c.	465136	97162	69,667	5,335
7	2409	Dolenjska - Peruzijeva	463686	97438	60,607	5,318
8	178	Peruzijeva – Barjanska	462713	97888	65,000	5,273
9	¹	Barjanska - Vič	457256	101053	62,500	5,270
10	2403	Vič - Kozarje	458361	99691	72,724	5,510
11	1016	Razcep Kozarje	457816	99904	35,614	4,213
12	2404	Razcep kozarje - Brezovica	456821	98889	73,550	7,495
13	¹	Šmartno - Brod	458285	103688	54,600	2,001
14	¹	Brod - Šentvid	458058	103384	52,000	2,066
15	832	Šentvid - Podutik	458276	104826	55,357	2,179
16	¹	Podutik – Koseze	458021	103512	53,500	2,106
17	2402	Koseze - Brdo	457749	102188	87,001	4,709
18	855	Brdo - Kozarje	457260	101051	73,578	4,692
19	1017	Razcep Kozarje	457298	100229	37,110	1,297
20	1019	Razcep Malence	465535	97076	33,020	2,500
21	179	Zadobrova - Leskovškova c.	466456	103180	66,505	3,416
21	891	Leskovškova c. – Šmartinska	465948	103176	48,402	2,920
22	¹	Šmartinska - Tomačevo	466765	103204	67,000	3,199
23	¹	Tomačevo - Dunajsk	467149	103194	68,500	3,469
24	¹	Dunajska - Savlje	466259	103175	68,000	3,384
25	174	Savlje - ind. cona Šiška	461430	105074	66,000	3,180
26	¹	ind. cona Šiška - Celovška	467471	103977	72,000	3,415
27	¹	Celovška - Vodnikova	465698	97376	65,500	3,427

¹ The Counting place is temporary.

Tabel S2: Slovenian Data Fleet in year 2021, categorized by COPERT model with number of vehicles by each category and its main activities in kilometers.

Category	Fuel	Segment	Stock [n]	Mean [km]	Activity
Passenger Cars	Petrol	Mini	29611	39,652	
		Small	333822	74,075	
		Medium	196518	85,672	
		Large-SUV-Executive	37845	95,608	
		2-Stroke	62	791	
	Petrol Hybrid	Mini	264	13,181	
		Small	4090	44,165	
		Medium	5330	67,653	
		Large-SUV-Executive	915	86,258	
	Petrol PHEV ¹	Small	164	44,139	
		Medium	775	47,203	
		Large-SUV-Executive	562	39,599	
	Diesel	Mini	1370	57,509	
		Small	68682	111,066	
		Medium	332116	132,336	
	Diesel PHEV ¹	Large-SUV-Executive	243349	231,975	
		Mini	145	67,024	
	LPG Bifuel	Small	3030	122,773	
		Medium	4236	120,293	
		Large-SUV-Executive	2306	158,084	
	CNG Bifuel	Mini	108	34,775	
		Small	28	95,396	
		Medium	193	87,542	
		Large-SUV-Executive	29	62,398	
Light Commercial Vehicles	Petrol	N1-I	3068	98,337	
		N1-II	891	91,937	
		N1-III	197	75,981	
	Diesel	N1-I	6005	139,444	
		N1-II	27854	138,857	
		N1-III	62513	152,756	
Heavy Trucks	Petrol	>3,5 t	25	353	
		Rigid <=7,5 t	3429	56,655	
	Diesel	Rigid 7,5 - 12 t	2365	106,830	
		Rigid 12 - 14 t	643	47,423	
		Rigid 14 - 20 t	5744	121,710	
		Rigid 20 - 26 t	4055	151,607	
		Rigid 26 - 28 t	1623	166,807	
		Rigid 28 - 32 t	481	93,006	
		Rigid >32 t	1928	88,386	
		Articulated 14 - 20 t	8	12,502	
		Articulated 20 - 28 t	17	88,206	
		Articulated 28 - 34 t	17	14,679	
		Articulated 34 - 40 t	3687	282,032	
		Articulated 40 - 50 t	12754	371,572	
		Articulated 50 - 60 t	957	196,368	

Buses	Diesel	Urban Buses Midi <=15 t	119	110,330
		Urban Buses Standard 15 - 18 t	251	164,736
		Urban Buses Articulated >18 t	718	188,675
		Coaches Standard <=18 t	928	127,454
		Coaches Articulated >18 t	524	147,904
	Diesel Hybrid	Urban Buses Diesel Hybrid	1	43,990
	CNG	Urban CNG Buses	113	107,799
	Biodiesel	Urban Biodiesel Buses	0	0
L-Category	Petrol	Mopeds 2-stroke <50 cm ³	27786	7,741
		Mopeds 4-stroke <50 cm ³	43099	6,379
		Motorcycles 2-stroke >50 cm ³	1359	9,091
		Motorcycles 4-stroke >750 cm ³	64629	38,859
		Quad & ATVs	7767	4,582
	Diesel	Micro-car	601	17,627

1 PHEV = Plug-in Hybrid Electric Vehicle