

Part 2 OD Matrices and Analysis

2.1. OD Matrices

The approach for demand forecast in this study adopts basically “the four step method” as stated in Chapter 11, where future modal share is affected by the network conditions. In other words, future OD matrix can be forecast only after a future network is given.

As the first step, future OD matrix was forecast assuming no change on the present network. This is called “Do nothing” OD. The second OD matrix was made assuming all the railway projects including even premature ones in an idea stage, but not including any road projects. This OD matrix is called “Maximum Railway” OD matrix. The last OD matrix was forecast assuming the maximum network, that is, present network plus all the road and railway projects. This is called “Do maximum” OD matrix.

Here in this section, four kinds of OD matrices including present OD matrices and three future OD matrices stated above are presented by mode for 32 integrated zones. They are listed in the following order:

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006)

- (1) Public Transport Passenger
- (2) Service Vehicle Passenger
- (3) Car Passenger
- (4) Walking

Table 2.1.4 Future Person Trip OD Matrix of “Do Nothing” Case (2023)

- (1) Public Transport Passenger
- (2) Service Vehicle Passenger
- (3) Car Passenger
- (4) Walking

Table 2.1.2 Future Person Trip OD Matrix of “Maximum Railway” Case (2023)

- (1) Public Transport Passenger
- (2) Service Vehicle Passenger
- (3) Car Passenger
- (4) Walking

Table 2.1.3 Future Person Trip OD Matrix of “Do Maximum” Case (2023)

- (1) Public Transport Passenger
- (2) Service Vehicle Passenger
- (3) Car Passenger
- (4) Walking

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006)

(1) Public Transport Passenger

Zone 1 – 10

Passenger/ day

	Zone Name	Destination Zone									
		1	2	3	4	5	6	7	8	9	10
Origin Zone	1 Adalar	3,053	361	2,522	700	1,223	548	238	124	200	1,136
	2 Beykoz	357	40,569	6,235	1,679	2,164	1,057	734	252	479	8,143
	3 Kadikoy	2,522	6,442	116,211	13,199	27,723	7,970	4,680	1,232	2,876	36,955
	4 Kartal	689	1,657	13,171	72,251	18,396	21,046	8,362	544	5,022	16,260
	5 Maltepe	1,236	2,131	27,724	18,450	50,602	7,895	2,635	509	3,109	12,564
	6 Pendik	549	1,069	7,871	21,023	7,954	75,608	7,323	417	12,889	6,870
	7 Sultanbeyli	230	706	4,703	8,358	2,643	7,307	24,404	361	2,499	6,748
	8 Sile	129	350	1,285	742	633	627	424	7,200	218	1,619
	9 Tuzla	205	531	2,911	5,096	3,160	12,957	2,507	165	16,248	3,167
	10 Umranyye	1,133	8,078	36,857	16,154	12,520	6,857	6,727	1,413	3,026	105,286
	11 Uskudar	917	5,648	37,174	5,015	8,716	2,855	1,847	461	1,314	28,816
	12 Avcilar	116	326	1,042	278	379	245	113	60	100	596
	13 Bagcilar	247	1,030	1,943	784	1,027	674	323	148	237	1,722
	14 Baahcelievler	260	851	1,851	652	937	579	280	149	219	1,508
	15 Bakirkoy	347	992	1,304	958	1,296	856	437	194	251	1,893
	16 Bayrampasa	439	1,464	3,750	1,175	1,576	1,029	492	353	351	2,512
	17 Besiktas	451	2,678	2,626	1,706	2,689	1,433	754	271	346	3,876
	18 Beyoglu	362	1,557	1,822	1,398	1,832	1,253	656	209	304	2,792
	19 Buyukcekmece	269	806	1,967	851	1,128	763	371	140	242	1,698
	20 Catalca	176	417	932	645	784	577	287	96	162	1,088
	21 Eminonu	1,089	2,917	3,805	3,239	4,387	3,017	1,566	604	737	6,301
	22 Esenler	274	1,006	2,200	682	939	581	285	149	224	1,631
	23 Eyup	268	1,226	1,785	776	1,077	662	334	139	206	1,867
	24 Fatih	337	987	1,183	924	1,290	821	444	127	210	1,844
	25 Gaziosmanpasa	508	2,454	4,950	1,327	1,776	1,092	538	310	457	3,448
	26 Gungoren	201	771	1,885	671	846	582	283	142	186	1,402
	27 Kagithane	198	1,792	1,965	798	1,087	636	349	92	197	2,138
	28 Kucukcekmece	631	2,007	5,123	1,754	2,394	1,573	755	424	540	3,750
	29 Sariyer	236	1,290	2,374	578	950	453	244	104	176	1,667
	30 Silivri	150	330	879	432	544	410	204	69	126	799
	31 Sisli	688	3,509	3,743	2,971	4,093	2,642	1,367	512	637	6,091
	32 Zeytinburnu	335	1,224	1,833	1,318	1,684	1,217	584	236	320	2,522
	33 Gebze	534	1,225	6,491	6,034	5,023	10,456	3,043	581	13,098	5,680
	Total	19,136	98,401	312,117	192,618	173,472	176,278	73,590	17,787	67,206	284,389

Zone 11 - 20

	Zone Name	Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	911	106	232	245	327	433	413	327	242	152
	2 Beykoz	5,427	343	988	823	672	1,369	2,290	1,218	671	250
	3 Kadikoy	37,243	1,095	1,948	1,865	1,086	3,711	2,487	1,758	1,972	825
	4 Kartal	4,897	239	657	586	640	996	1,239	930	595	362
	5 Maltepe	8,691	338	909	873	1,048	1,484	2,365	1,508	910	573
	6 Pendik	2,813	197	544	498	550	855	1,019	814	509	341
	7 Sultanbeyli	1,814	100	303	246	314	459	596	467	260	170
	8 Sile	575	78	128	135	83	259	140	67	115	55
	9 Tuzla	1,381	101	216	201	158	307	226	190	193	84
	10 Umranyye	28,654	591	1,617	1,425	1,467	2,370	3,393	2,281	1,403	746
	11 Uskudar	100,812	454	1,174	1,048	975	1,767	2,493	1,652	932	435
	12 Avcilar	433	35,214	2,859	3,334	4,906	1,726	868	1,049	26,426	1,709
	13 Bagcilar	1,178	2,865	63,754	25,554	7,516	7,476	2,444	2,617	5,124	1,258
	14 Baahcelievler	1,045	3,344	25,563	41,722	15,098	4,924	2,406	2,728	5,042	1,336
	15 Bakirkoy	1,290	4,928	7,586	15,111	34,978	3,588	819	1,519	4,641	889
	16 Bayrampasa	1,828	1,744	7,492	4,931	3,567	21,164	2,645	3,083	3,516	1,367
	17 Besiktas	2,712	1,033	2,724	2,596	841	2,815	33,720	6,119	1,592	461
	18 Beyoglu	1,952	1,207	2,806	2,787	1,471	3,157	5,682	45,793	1,647	455
	19 Buyukcekmece	1,093	26,429	5,102	5,019	4,455	3,483	1,165	1,314	84,060	5,626
	20 Catalca	690	1,685	1,234	1,299	639	1,251	231	213	5,478	12,939
	21 Eminonu	4,255	3,119	6,187	6,891	3,790	7,165	2,561	6,764	4,218	1,200
	22 Esenler	1,152	1,634	14,813	6,001	5,170	10,101	2,879	3,040	3,589	1,120
	23 Eyup	1,272	889	3,601	2,538	1,938	6,032	3,215	4,752	1,712	529
	24 Fatih	1,208	1,460	3,776	3,779	4,469	5,553	1,689	4,945	1,842	463
	25 Gaziosmanpasa	2,444	2,602	11,874	7,033	6,104	18,616	8,007	7,872	6,311	3,499
	26 Gungoren	1,085	1,537	9,323	6,798	7,298	5,300	2,105	2,457	2,434	790
	27 Kagithane	1,499	608	2,296	1,687	1,278	2,903	10,624	6,863	1,117	311
	28 Kucukcekmece	2,555	12,940	21,993	21,578	15,878	8,861	3,989	4,365	19,777	4,141
	29 Sariyer	1,074	462	1,497	1,268	1,014	2,023	5,496	1,950	938	348
	30 Silivri	494	1,372	1,063	1,064	734	1,183	280	285	5,983	2,449
	31 Sisli	4,182	1,770	4,523	3,957	1,462	4,964	11,980	14,948	2,783	859
	32 Zeytinburnu	1,789	2,209	4,978	7,687	14,346	5,550	1,840	2,981	2,879	732
	33 Gebze	2,776	265	671	582	657	1,039	988	925	710	504
	Total	231,224	112,958	214,431	181,161	144,929	142,884	122,294	137,794	199,621	46,978

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) cont'd
(1) Public Transport Passenger cont'd

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	1,067	252	243	261	496	193	180	616	233	127
	2 Beykoz	2,642	956	1,143	559	2,481	679	1,806	1,974	1,415	193
	3 Kadikoy	3,615	2,209	1,834	1,052	5,012	1,827	2,193	5,114	2,749	783
	4 Kartal	2,991	547	605	365	1,249	564	665	1,627	499	202
	5 Maltepe	4,212	845	947	809	1,717	769	1,005	2,279	889	365
	6 Pendik	2,723	465	453	304	1,019	500	498	1,444	352	170
	7 Sultanbeyli	1,461	244	288	192	532	256	290	702	196	91
	8 Sile	440	152	81	26	345	109	81	425	144	42
	9 Tuzla	656	206	175	81	478	176	193	524	216	57
	10 Umranyye	5,949	1,483	1,692	1,177	3,439	1,280	2,100	3,605	1,681	478
	11 Uskudar	4,006	1,139	1,299	847	2,576	1,055	1,729	2,559	1,245	287
	12 Avcilar	3,042	1,624	884	1,303	2,616	1,529	574	12,948	452	1,394
	13 Bagcilar	6,063	14,788	3,547	3,666	11,885	9,321	2,243	21,985	1,528	1,085
	14 Baahcelievler	6,806	6,014	2,517	3,807	7,076	6,793	1,730	21,577	1,314	1,093
	15 Bakirkoy	3,721	5,229	2,062	4,697	6,258	7,305	1,454	15,945	1,369	962
	16 Bayrampasa	7,101	10,128	6,077	5,603	18,639	5,311	2,877	8,877	2,174	1,247
	17 Besiktas	2,622	3,178	3,529	2,339	8,459	2,235	10,954	4,383	6,048	526
	18 Beyoglu	6,747	3,184	4,840	5,255	8,152	2,536	7,034	4,669	2,449	536
	19 Buyukcekmece	3,962	3,588	1,686	1,538	6,355	2,418	1,094	19,790	1,078	6,081
	20 Catalca	965	1,103	514	210	3,511	746	306	4,110	536	2,394
	21 Eminonu	22,844	7,079	5,178	18,870	12,104	5,736	3,728	11,947	3,750	1,461
	22 Esenler	6,981	24,617	3,855	4,187	11,761	10,791	2,337	11,004	1,543	907
	23 Eyup	5,088	3,872	26,225	4,627	20,154	2,473	6,037	4,678	2,345	480
	24 Fatih	18,754	4,166	4,677	74,826	6,559	3,866	2,466	5,684	1,495	513
	25 Gaziosmanpasa	11,932	11,716	20,086	6,452	116,589	5,709	8,151	17,193	3,989	1,751
	26 Gungoren	5,675	10,802	2,470	3,853	5,716	20,328	1,731	6,573	1,140	697
	27 Kagithane	3,585	2,319	6,003	2,426	8,222	1,716	35,053	3,133	3,711	303
	28 Kucukcekmece	11,804	11,000	4,632	5,442	17,212	6,578	3,095	72,455	2,768	3,654
	29 Sariyer	3,467	1,457	2,216	917	3,995	1,062	3,659	2,732	41,255	284
	30 Silivri	1,220	910	470	232	1,826	669	283	3,614	404	18,586
	31 Sisli	4,142	5,376	6,831	4,493	13,883	3,693	18,385	7,309	6,584	1,003
	32 Zeytinburnu	6,795	5,223	3,024	11,579	6,712	8,594	2,113	8,485	1,621	780
	33 Gebze	2,529	605	603	527	1,245	579	593	1,605	566	336
	Total	175,607	146,476	120,686	172,522	318,273	117,396	126,637	291,565	97,738	48,868

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	642	329	531	18,663
	2 Beykoz	2,983	1,095	1,170	94,816
	3 Kadikoy	3,471	1,784	6,457	311,900
	4 Kartal	2,407	1,153	6,019	187,432
	5 Maltepe	3,743	1,579	4,978	169,691
	6 Pendik	2,074	1,025	10,428	171,168
	7 Sultanbeyli	1,167	562	3,029	71,698
	8 Sile	258	135	583	17,683
	9 Tuzla	484	284	13,097	66,631
	10 Umranyye	5,417	2,357	5,610	278,266
	11 Uskudar	3,757	1,704	2,718	229,426
	12 Avcilar	1,605	2,178	273	112,201
	13 Bagcilar	4,228	4,942	678	213,880
	14 Baahcelievler	3,804	7,660	588	181,273
	15 Bakirkoy	1,381	14,355	727	149,342
	16 Bayrampasa	4,790	5,545	1,057	143,904
	17 Besiktas	12,112	1,946	1,093	130,867
	18 Beyoglu	14,686	3,025	1,019	143,274
	19 Buyukcekmece	2,280	2,815	738	199,404
	20 Catalca	460	610	522	46,810
	21 Eminonu	4,098	6,873	2,581	180,061
	22 Esenler	5,094	5,200	594	146,341
	23 Eyup	6,604	2,986	613	121,000
	24 Fatih	3,671	11,663	654	176,345
	25 Gaziosmanpasa	13,525	6,665	1,213	316,193
	26 Gungoren	3,544	8,565	589	117,779
	27 Kagithane	18,218	2,084	618	125,829
	28 Kucukcekmece	6,941	8,448	1,602	290,659
	29 Sariyer	5,981	1,504	537	93,208
	30 Silivri	631	708	367	48,770
	31 Sisli	54,178	3,390	2,160	209,108
	32 Zeytinburnu	3,272	34,868	1,066	150,396
	33 Gebze	2,043	1,041	109,460	183,014
	Total	199,549	149,078	183,369	5,097,032

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) cont'd
(2) Service Vehicle Passenger

Zone 1 – 10

Passenger/ day

		Zone Name	Destination Zone									
			1	2	3	4	5	6	7	8	9	10
Origin Zone	1	Adalar	0	77	212	142	220	132	63	33	48	274
	2	Beykoz	77	12,846	1,861	898	1,089	672	408	160	373	3,996
	3	Kadikoy	212	2,106	31,534	4,137	7,483	2,541	1,655	371	1,158	14,147
	4	Kartal	145	890	4,107	24,054	7,064	8,046	3,557	321	2,668	8,384
	5	Maltepe	217	1,065	7,483	7,030	15,608	3,142	1,532	328	1,705	6,859
	6	Pendik	130	629	2,482	8,057	3,156	31,040	3,473	301	6,536	3,996
	7	Sultanbeyli	64	406	1,661	3,570	1,534	3,510	10,868	207	1,863	3,296
	8	Sile	30	191	381	426	425	446	251	2,624	177	819
	9	Tuzla	55	478	1,192	2,698	1,729	6,552	1,856	194	8,021	2,556
	10	Umranyye	271	4,097	14,124	8,324	6,825	3,979	3,303	723	2,439	53,106
	11	Uskudar	170	2,239	12,156	2,077	3,268	1,396	846	255	859	12,226
	12	Avcilar	21	160	167	118	132	119	65	37	46	292
	13	Bagcilar	58	614	539	412	478	427	226	111	151	1,007
	14	Baahcelievler	54	502	477	333	409	351	184	124	139	827
	15	Bakirkoy	43	372	283	324	381	333	192	87	72	686
	16	Bayrampasa	62	620	498	461	550	492	262	151	138	1,039
	17	Besiktas	98	1,435	942	926	1,303	961	515	294	205	2,168
	18	Beyoglu	70	723	602	658	750	656	373	135	139	1,318
	19	Buyukcekmece	81	601	583	537	626	569	296	152	177	1,211
	20	Catalca	50	379	398	477	511	500	267	100	120	903
	21	Eminonu	159	1,105	979	1,120	1,353	1,230	662	321	275	2,227
	22	Esenler	49	489	455	303	372	302	156	98	126	801
	23	Eyup	50	550	444	369	462	388	204	95	114	926
	24	Fatih	62	437	339	395	485	403	245	92	82	852
	25	Gaziosmanpasa	97	1,182	1,172	632	744	611	313	209	322	1,799
	26	Gungoren	43	406	418	328	368	340	178	94	109	737
	27	Kagithane	48	820	583	460	555	463	256	84	132	1,164
	28	Kucukcekmece	132	1,125	1,069	879	1,078	930	513	320	310	2,102
	29	Sariyer	39	584	489	341	542	358	183	113	113	976
	30	Silivri	39	265	302	320	331	331	166	69	90	619
	31	Sisli	152	1,780	1,461	1,588	2,011	1,672	914	459	378	3,363
	32	Zeytinburnu	63	560	503	546	613	580	322	132	136	1,110
	33	Gebze	124	834	1,952	2,550	2,352	4,627	1,905	561	4,916	3,803
		Total	2,965	40,567	91,848	75,490	64,807	78,099	36,209	9,355	34,137	139,589

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	168	16	46	51	24	54	67	46	61	42
	2	Beykoz	2,065	146	572	472	177	504	1,130	426	476	240
	3	Kadikoy	12,277	209	607	501	187	515	823	440	591	340
	4	Kartal	2,070	89	363	288	158	351	579	324	367	290
	5	Maltepe	3,186	108	421	366	240	485	1,063	500	491	390
	6	Pendik	1,362	81	347	282	179	368	622	360	365	321
	7	Sultanbeyli	839	49	206	161	121	238	400	240	232	197
	8	Sile	334	48	96	105	26	98	164	40	114	67
	9	Tuzla	961	62	171	141	39	121	122	83	161	98
	10	Umranyye	12,088	269	988	804	440	968	1,746	903	982	670
	11	Uskudar	35,155	131	509	416	201	485	898	472	432	310
	12	Avcilar	153	11,883	1,425	1,550	1,233	562	365	360	12,922	984
	13	Bagcilar	552	1,441	32,284	13,832	2,601	3,091	1,475	1,192	3,535	1,156
	14	Baahcelievler	462	1,545	13,852	22,676	4,918	1,944	1,369	1,189	3,176	1,080
	15	Bakirkoy	407	1,285	2,650	4,919	6,608	662	186	347	1,605	444
	16	Bayrampasa	614	570	3,107	1,933	626	7,472	831	894	1,535	684
	17	Besiktas	1,208	486	1,663	1,486	232	942	10,991	2,331	1,054	566
	18	Beyoglu	761	463	1,315	1,285	330	937	2,010	12,941	868	375
	19	Buyukcekmece	654	12,920	3,519	3,159	1,492	1,488	747	641	47,555	3,712
	20	Catalca	502	945	1,002	986	241	560	290	146	3,493	6,399
	21	Eminonu	1,256	951	2,381	2,687	647	1,334	466	1,174	1,744	791
	22	Esenler	429	666	6,618	3,075	1,364	3,863	1,504	1,220	2,185	907
	23	Eyup	482	370	1,822	1,238	465	1,957	1,633	1,738	1,014	446
	24	Fatih	463	468	1,558	1,615	884	1,574	529	1,470	852	333
	25	Gaziosmanpasa	907	1,230	5,861	3,650	1,821	6,600	5,117	3,479	4,301	2,511
	26	Gungoren	471	641	4,207	3,172	1,964	1,934	1,071	998	1,414	585
	27	Kagithane	663	329	1,429	1,022	333	1,206	4,929	3,015	836	356
	28	Kucukcekmece	1,093	4,879	11,387	11,037	4,077	2,904	1,797	1,578	10,319	2,775
	29	Sariyer	437	227	984	837	221	730	2,502	668	674	400
	30	Silivri	343	665	805	731	260	498	266	174	3,273	1,677
	31	Sisli	1,929	828	2,554	2,249	433	1,609	4,257	5,490	1,792	857
	32	Zeytinburnu	668	750	2,019	3,163	2,695	1,381	620	885	1,370	470
	33	Gebze	1,418	109	367	302	181	344	466	333	432	388
		Total	86,377	44,859	107,135	90,191	35,418	47,779	51,035	46,097	110,221	30,861

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) cont'd
 (2) Service Vehicle Passenger Cont'd

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	148	41	35	20	85	35	33	118	50	29
	2 Beykoz	918	437	519	144	1,264	335	746	1,081	616	152
	3 Kadikoy	867	484	509	168	1,319	398	677	1,126	645	245
	4 Kartal	960	224	260	77	634	263	335	826	239	139
	5 Maltepe	1,235	295	370	193	716	317	461	993	453	218
	6 Pendik	1,037	222	239	95	589	264	297	856	208	158
	7 Sultanbeyli	613	126	150	79	309	169	179	489	111	100
	8 Sile	205	94	58	13	229	65	59	283	120	46
	9 Tuzla	223	136	119	22	386	108	143	326	157	64
	10 Umranyye	2,016	705	776	350	1,868	676	1,063	2,039	922	381
	11 Uskudar	1,094	380	440	146	1,033	391	636	1,047	414	159
	12 Avcilar	908	671	335	386	1,241	646	289	4,874	223	686
	13 Bagcilar	2,318	6,633	1,812	1,542	5,897	4,212	1,353	11,359	992	896
	14 Baahcelievler	2,642	3,083	1,255	1,607	3,691	3,177	1,012	11,034	837	792
	15 Bakirkoy	592	1,437	564	1,091	1,958	2,005	451	4,130	396	409
	16 Bayrampasa	1,308	3,862	1,943	1,663	6,597	1,939	1,183	2,927	821	589
	17 Besiktas	467	1,722	1,893	957	5,440	1,134	5,187	2,079	2,876	508
	18 Beyoglu	1,137	1,357	1,802	1,708	3,679	1,041	3,087	1,758	988	384
	19 Buyukcekmece	1,591	2,179	998	660	4,370	1,421	784	10,302	781	3,408
	20 Catalca	598	814	385	139	2,451	508	281	2,705	488	1,616
	21 Eminonu	2,761	2,505	1,609	3,698	4,669	2,003	1,276	3,651	1,222	836
	22 Esenler	2,425	11,921	1,645	1,527	5,103	5,151	1,233	5,179	868	650
	23 Eyup	1,544	1,645	9,219	1,453	7,365	1,074	2,612	2,169	1,175	349
	24 Fatih	3,655	1,541	1,450	23,448	2,498	1,477	1,009	1,952	525	313
	25 Gaziosmanpasa	4,537	5,074	7,324	2,428	47,114	2,684	4,404	9,582	2,812	1,283
	26 Gungoren	1,974	5,147	1,081	1,474	2,680	8,832	923	2,921	632	459
	27 Kagithane	1,179	1,237	2,574	945	4,464	928	16,088	1,729	2,029	299
	28 Kucukcekmece	3,509	5,182	2,122	1,771	9,589	2,913	1,650	30,271	1,563	2,214
	29 Sariyer	1,004	813	1,103	241	2,821	585	1,952	1,518	15,066	266
	30 Silivri	634	583	302	120	1,262	404	236	2,147	359	8,474
	31 Sisli	835	2,692	3,033	1,770	7,713	1,848	7,984	3,413	2,750	880
	32 Zeytinburnu	1,618	1,825	1,009	3,413	2,646	3,014	861	2,954	667	478
	33 Gebze	743	263	276	156	671	267	319	763	286	244
	Total	47,295	65,330	47,209	53,504	142,351	50,284	58,803	128,601	42,291	27,724

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	121	54	125	2,670
	2 Beykoz	1,415	442	776	37,433
	3 Kadikoy	1,301	477	1,938	91,988
	4 Kartal	1,186	430	2,509	72,197
	5 Maltepe	1,745	540	2,314	62,069
	6 Pendik	1,273	450	4,588	74,363
	7 Sultanbeyli	772	282	1,899	34,940
	8 Sile	258	83	550	8,925
	9 Tuzla	263	120	4,902	34,259
	10 Umranyye	2,906	989	3,770	135,510
	11 Uskudar	1,539	539	1,364	83,683
	12 Avcilar	701	742	103	44,399
	13 Bagcilar	2,403	2,007	340	106,946
	14 Baahcelievler	2,146	3,163	282	90,332
	15 Bakirkoy	376	2,680	212	38,187
	16 Bayrampasa	1,523	1,378	335	48,607
	17 Besiktas	4,409	688	504	57,670
	18 Beyoglu	5,238	899	396	50,183
	19 Buyukcekmece	1,445	1,325	404	110,388
	20 Catalca	541	361	355	29,511
	21 Eminonu	810	1,642	779	50,323
	22 Esenler	2,481	1,836	242	65,243
	23 Eyup	2,890	984	253	47,499
	24 Fatih	1,259	3,344	234	55,843
	25 Gaziosmanpasa	7,487	2,622	631	140,540
	26 Gungoren	1,768	3,024	263	50,656
	27 Kagithane	7,928	843	314	59,240
	28 Kucukcekmece	3,158	2,933	742	127,921
	29 Sariyer	2,323	544	252	39,906
	30 Silivri	578	379	230	26,932
	31 Sisli	19,196	1,167	994	90,051
	32 Zeytinburnu	1,133	9,809	382	48,395
	33 Gebze	950	374	24,749	58,025
	Total	83,522	47,150	57,731	2,074,834

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) cont'd
(3) Car Passenger

Zone 1 – 10

		Zone Name	Destination Zone										Passenger/ day
			1	2	3	4	5	6	7	8	9	10	
Origin Zone	1	Adalar	0	202	1,317	345	715	291	112	76	116	650	
	2	Beykoz	222	27,012	5,647	1,576	2,305	1,091	652	306	518	7,535	
	3	Kadikoy	1,311	5,706	142,258	10,749	26,875	6,045	3,353	1,074	2,962	35,871	
	4	Kartal	358	1,586	10,877	40,764	12,908	13,978	5,097	418	3,589	12,449	
	5	Maltepe	706	2,238	26,859	12,840	38,911	6,048	2,014	531	2,467	11,277	
	6	Pendik	277	1,065	6,030	13,906	6,071	47,474	4,876	388	8,797	5,968	
	7	Sultanbeyli	112	652	3,382	5,097	2,027	4,901	12,969	245	1,665	4,736	
	8	Sile	84	368	1,239	612	675	580	290	6,020	269	1,291	
	9	Tuzla	121	554	3,030	3,650	2,515	8,867	1,687	237	11,315	2,843	
	10	Umranyye	653	7,525	35,851	12,315	11,309	5,978	4,693	1,087	2,775	76,123	
	11	Uskudar	602	5,396	39,653	4,428	8,334	2,659	1,551	484	1,484	27,299	
	12	Avcilar	40	220	482	113	189	95	49	34	45	335	
	13	Bagcilar	98	800	1,351	464	692	395	178	105	161	1,173	
	14	Baahcelievler	92	615	1,187	345	547	296	137	94	124	909	
	15	Bakirkoy	115	591	1,220	380	632	318	163	99	128	957	
	16	Bayrampasa	135	942	1,732	560	863	480	225	165	184	1,375	
	17	Besiktas	145	2,453	3,250	929	1,642	738	362	151	256	2,781	
	18	Beyoglu	126	947	1,818	624	1,072	526	256	84	159	1,508	
	19	Buyukcekmece	116	653	1,545	425	710	348	159	96	155	1,058	
	20	Catalca	69	332	853	266	488	225	106	69	81	589	
	21	Eminonu	263	1,439	3,040	1,174	1,909	1,006	453	237	329	2,553	
	22	Esenler	90	634	1,113	302	527	257	124	76	105	877	
	23	Eyup	98	906	1,406	404	719	346	176	84	125	1,162	
	24	Fatih	122	566	1,114	379	692	314	158	54	86	928	
	25	Gaziosmanpasa	204	2,018	2,948	807	1,292	696	325	216	315	2,464	
	26	Gungoren	82	555	1,211	345	541	283	131	82	122	880	
	27	Kagithane	76	1,245	1,565	457	798	368	184	63	138	1,424	
	28	Kucukcekmece	222	1,429	2,927	865	1,374	750	343	273	314	2,154	
	29	Sariyer	102	1,093	1,774	334	703	277	141	88	141	1,371	
	30	Silivri	54	200	635	151	326	132	60	46	55	368	
	31	Sisli	220	2,458	4,238	1,520	2,534	1,296	592	301	396	3,676	
	32	Zeytinburnu	105	724	1,455	556	843	468	210	111	164	1,209	
	33	Gebze	223	959	4,131	3,127	2,732	5,370	1,681	575	7,041	3,913	
		Total	7,243	74,083	317,138	120,809	134,470	112,896	43,507	13,969	46,581	219,706	

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	588	30	97	84	94	121	111	73	101	49
	2	Beykoz	5,336	241	748	616	517	810	2,421	773	652	194
	3	Kadikoy	39,637	494	1,283	1,168	1,115	1,642	3,214	1,588	1,490	665
	4	Kartal	4,531	101	338	308	265	435	807	402	306	129
	5	Maltepe	8,283	178	617	502	529	765	1,481	792	589	312
	6	Pendik	2,756	82	256	239	214	341	605	310	242	103
	7	Sultanbeyli	1,582	40	140	120	115	187	326	163	116	45
	8	Sile	659	47	73	94	73	120	121	50	111	44
	9	Tuzla	1,535	57	128	136	102	148	239	99	139	39
	10	Umranyye	27,293	332	1,050	894	822	1,221	2,744	1,251	990	396
	11	Uskudar	96,335	269	902	758	765	1,141	2,870	1,334	783	329
	12	Avcilar	282	18,008	2,083	2,288	4,001	962	506	507	19,036	1,223
	13	Bagcilar	1,022	2,072	34,874	16,947	6,047	4,468	1,718	1,422	4,590	1,040
	14	Baahcelievler	811	2,269	16,966	28,328	14,261	3,009	1,607	1,568	4,120	969
	15	Bakirkoy	909	3,998	6,083	14,239	40,966	2,377	1,271	1,356	4,661	732
	16	Bayrampasa	1,256	985	4,517	3,039	2,374	11,180	1,887	1,622	2,567	766
	17	Besiktas	2,723	614	1,806	1,685	1,325	1,933	55,939	5,194	1,431	334
	18	Beyoglu	1,516	659	1,614	1,702	1,521	1,668	5,126	27,494	1,286	230
	19	Buyukcekmece	928	18,960	4,567	4,097	4,588	2,456	1,185	920	78,884	5,067
	20	Catalca	544	1,234	988	934	701	648	283	142	5,029	8,740
	21	Eminonu	2,511	1,348	2,912	3,349	3,034	2,948	2,369	3,197	2,595	599
	22	Esenler	774	1,002	8,728	3,909	3,040	5,366	1,602	1,467	2,746	712
	23	Eyup	1,026	597	2,592	1,811	1,502	3,589	2,839	2,940	1,563	418
	24	Fatih	895	880	2,431	2,577	3,620	3,249	1,665	2,704	1,523	243
	25	Gaziosmanpasa	1,941	1,869	8,183	4,951	3,926	11,131	5,616	4,687	5,427	2,518
	26	Gungoren	855	1,025	6,303	5,051	5,669	3,322	1,512	1,458	2,040	598
	27	Kagithane	1,306	444	1,639	1,302	1,066	1,904	9,120	4,236	1,095	268
	28	Kucukcekmece	1,883	7,310	14,445	14,880	12,228	4,839	2,484	2,165	14,574	2,896
	29	Sariyer	917	339	1,326	1,034	923	1,578	6,087	1,532	1,034	394
	30	Silivri	349	895	759	701	613	530	227	122	4,912	2,270
	31	Sisli	3,669	1,064	2,781	2,753	1,958	2,820	16,265	10,719	2,442	618
	32	Zeytinburnu	1,178	1,206	2,762	4,421	7,798	2,637	1,364	1,428	2,076	446
	33	Gebze	2,191	113	280	242	240	336	501	288	331	158
		Total	218,021	68,762	134,271	125,159	126,012	79,881	136,112	84,003	169,481	33,544

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) cont'd
 (3) Car Passenger Cont'd

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	241	80	85	55	201	71	70	207	102	39
	2 Beykoz	1,260	625	870	446	2,024	494	1,334	1,395	1,363	129
	3 Kadikoy	2,859	1,088	1,345	958	2,923	1,138	1,647	2,873	1,991	452
	4 Kartal	1,042	251	311	161	798	283	392	786	450	47
	5 Maltepe	1,766	450	609	429	1,238	468	710	1,276	696	160
	6 Pendik	890	187	224	120	604	234	261	637	323	35
	7 Sultanbeyli	402	109	133	93	317	114	157	307	176	18
	8 Sile	167	70	64	30	240	77	45	252	154	36
	9 Tuzla	272	109	118	48	318	104	128	287	223	25
	10 Umranyye	2,325	829	1,137	679	2,448	784	1,454	2,110	1,657	225
	11 Uskudar	2,326	717	1,028	704	1,999	801	1,378	1,804	1,219	159
	12 Avclar	1,277	1,002	559	734	1,878	1,024	393	7,342	362	893
	13 Bagcilar	2,816	8,731	2,550	2,368	8,197	6,310	1,626	14,474	1,469	815
	14 Baahcelievler	3,246	3,912	1,791	2,505	4,967	5,057	1,288	14,889	1,104	697
	15 Bakirkoy	2,938	3,042	1,511	3,529	4,004	5,683	1,096	12,285	1,150	650
	16 Bayrampasa	2,893	5,397	3,610	3,326	11,205	3,340	1,953	4,865	1,745	670
	17 Besiktas	2,332	1,747	2,933	1,876	5,813	1,518	9,263	2,706	6,406	302
	18 Beyoglu	3,204	1,603	3,015	3,133	5,036	1,525	4,401	2,467	2,000	249
	19 Buyukcekmece	2,351	2,702	1,499	1,143	5,415	2,002	1,000	14,551	1,177	4,917
	20 Catalca	450	714	413	176	2,600	539	228	2,840	604	2,287
	21 Eminonu	9,060	2,866	2,871	9,665	5,918	2,777	2,012	4,922	2,609	609
	22 Esenler	2,743	12,079	2,390	2,364	7,287	6,105	1,493	7,185	1,193	555
	23 Eyup	2,742	2,405	15,696	2,869	13,215	1,701	4,277	3,247	2,280	346
	24 Fatih	9,462	2,338	2,878	41,421	4,327	2,539	1,690	3,294	1,278	251
	25 Gaziosmanpasa	5,747	7,269	13,165	4,243	69,736	3,982	6,212	11,877	3,705	1,270
	26 Gungoren	2,714	6,099	1,686	2,508	4,013	14,882	1,286	4,369	1,024	467
	27 Kagithane	1,931	1,492	4,214	1,709	6,295	1,251	20,948	2,233	3,108	218
	28 Kucukcekmece	4,751	7,133	3,228	3,036	11,909	4,377	2,153	40,601	2,446	2,236
	29 Sariyer	2,366	1,045	2,098	738	3,642	890	2,963	2,347	38,931	222
	30 Silivri	490	529	298	126	1,306	427	161	2,251	395	14,090
	31 Sisli	2,770	2,848	4,926	3,183	9,291	2,564	13,366	4,445	6,102	614
	32 Zeytinburnu	3,007	2,517	1,702	6,075	3,750	4,911	1,244	4,399	1,298	430
	33 Gebze	614	212	268	173	612	225	274	610	397	110
	Total	83,454	82,197	79,225	100,623	203,526	78,197	86,903	180,133	89,137	34,223

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	175	96	221	6,815
	2 Beykoz	2,068	574	931	72,685
	3 Kadikoy	3,905	1,313	4,056	315,048
	4 Kartal	1,202	408	3,071	118,848
	5 Maltepe	2,205	740	2,699	131,385
	6 Pendik	941	322	5,323	110,101
	7 Sultanbeyli	479	165	1,661	42,751
	8 Sile	153	54	582	14,744
	9 Tuzla	322	111	7,027	46,533
	10 Umranyye	3,269	1,020	3,809	217,048
	11 Uskudar	3,398	1,060	2,139	216,108
	12 Avclar	909	1,188	107	68,166
	13 Bagcilar	2,599	2,740	296	134,608
	14 Baahcelievler	2,590	4,415	252	124,967
	15 Bakirkoy	1,789	7,825	271	126,968
	16 Bayrampasa	2,748	2,670	359	81,635
	17 Besiktas	16,266	1,392	560	138,805
	18 Beyoglu	10,581	1,527	368	89,045
	19 Buyukcekmece	2,031	1,984	344	168,033
	20 Catalca	390	341	196	34,099
	21 Eminonu	2,789	3,043	647	87,053
	22 Esenler	2,628	2,465	230	82,168
	23 Eyup	4,795	1,670	287	79,833
	24 Fatih	2,581	6,093	249	102,601
	25 Gaziosmanpasa	9,022	3,701	605	202,068
	26 Gungoren	2,457	4,898	238	78,706
	27 Kagithane	13,219	1,215	293	86,824
	28 Kucukcekmece	4,133	4,369	626	179,353
	29 Sariyer	5,568	1,133	343	83,474
	30 Silivri	364	310	135	34,287
	31 Sisli	47,169	2,002	831	162,431
	32 Zeytinburnu	1,932	14,829	301	77,556
	33 Gebze	727	275	36,944	75,873
	Total	155,404	75,948	76,001	3,590,619

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) Cont'd
(4) Walking Passenger

Zone 1 – 10

Passenger/ day

	Zone Name	Destination Zone									
		1	2	3	4	5	6	7	8	9	10
Origin Zone	1 Adalar	7,453	2	221	71	160	30	5	0	1	58
	2 Beykoz	0	177,746	279	23	48	0	16	1	0	2,567
	3 Kadikoy	230	451	550,510	2,038	14,480	168	285	0	5	19,173
	4 Kartal	60	32	1,945	317,979	10,901	12,203	5,509	0	438	6,695
	5 Maltepe	156	62	14,433	10,888	262,173	1,305	756	0	82	4,611
	6 Pendik	13	0	94	12,217	1,297	350,157	3,713	0	5,747	205
	7 Sultanbeyli	0	12	243	5,533	774	3,697	183,163	0	402	1,984
	8 Sile	0	0	0	0	0	0	0	18,997	0	11
	9 Tuzla	1	0	6	530	133	5,797	443	0	88,797	31
	10 Umranyye	44	2,620	18,989	6,562	4,631	200	1,976	15	7	536,908
	11 Uskudar	48	1,800	27,311	241	1,947	7	39	0	0	20,987
	12 Avcilar	0	0	0	0	0	0	0	0	0	0
	13 Bagcilar	0	0	23	0	0	0	0	0	0	4
	14 Baahcelievler	1	3	39	0	6	0	0	0	0	10
	15 Bakirkoy	2	0	9	0	3	0	0	0	0	9
	16 Bayrampasa	7	25	209	0	15	0	0	0	0	69
	17 Besiktas	10	711	341	13	156	2	6	0	0	756
	18 Beyoglu	14	88	235	0	75	0	0	0	0	301
	19 Buyukcekmece	0	0	0	0	0	0	0	0	0	0
	20 Catalca	0	0	0	0	0	0	0	0	0	0
	21 Eminonu	32	138	484	28	185	1	4	0	0	444
	22 Esenler	2	3	62	0	2	0	0	0	0	15
	23 Eyup	3	33	63	0	10	0	0	0	0	50
	24 Fatih	12	9	73	0	18	0	0	0	0	83
	25 Gaziosmanpasa	3	33	152	0	5	0	0	0	0	43
	26 Gungoren	1	0	61	0	0	0	0	0	0	14
	27 Kagithane	0	289	95	0	5	0	0	0	0	156
	28 Kucukcekmece	0	0	23	0	1	0	0	0	0	2
	29 Sariyer	1	425	47	0	17	0	0	0	0	136
	30 Silivri	0	0	0	0	0	0	0	0	0	0
	31 Sisli	17	649	404	4	184	0	1	0	0	737
	32 Zeytinburnu	7	11	88	0	19	0	0	0	0	52
	33 Gebze	2	0	6	120	56	679	68	0	2,467	4
Total		8,119	185,142	616,445	356,247	297,301	374,246	195,984	19,013	97,946	596,115

Zone 11 - 20

	Zone Name	Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	46	0	0	0	0	2	5	1	0	0
	2 Beykoz	1,615	0	2	0	0	16	524	35	0	0
	3 Kadikoy	27,479	3	43	47	16	223	301	197	0	0
	4 Kartal	227	0	0	0	0	0	2	0	0	0
	5 Maltepe	1,861	0	0	1	0	3	65	10	0	0
	6 Pendik	11	0	0	0	0	0	0	0	0	0
	7 Sultanbeyli	24	0	0	0	0	0	0	0	0	0
	8 Sile	0	0	0	0	0	0	0	0	0	0
	9 Tuzla	0	0	0	0	0	0	0	0	0	0
	10 Umranyye	20,840	0	3	5	0	25	506	141	0	0
	11 Uskudar	499,311	0	18	16	1	92	942	414	0	0
	12 Avcilar	0	207,432	262	538	965	16	1	0	19,656	19
	13 Bagcilar	3	281	479,900	30,815	2,842	5,117	82	269	125	0
	14 Baahcelievler	13	540	30,829	322,851	12,444	1,924	116	237	136	0
	15 Bakirkoy	16	1,006	2,919	12,460	187,372	802	15	145	195	0
	16 Bayrampasa	132	47	5,103	1,935	732	184,986	359	1,187	16	0
	17 Besiktas	1,196	1	219	203	15	501	148,424	4,187	1	0
	18 Beyoglu	640	3	395	373	77	1,237	3,716	221,009	0	0
	19 Buyukcekmece	0	19,659	138	168	130	12	0	0	387,516	425
	20 Catalca	0	24	0	0	0	0	0	0	433	38,318
	21 Eminonu	886	40	983	1,218	464	2,316	701	3,846	6	0
	22 Esenler	21	65	18,977	4,000	1,533	11,097	212	549	40	0
	23 Eyup	87	10	1,185	506	167	4,999	835	2,567	0	0
	24 Fatih	123	25	1,087	1,368	1,274	3,399	282	3,346	0	0
	25 Gaziosmanpasa	80	31	5,245	1,497	510	19,134	1,388	2,484	31	177
	26 Gungoren	32	115	11,105	8,319	4,804	4,066	170	470	25	0
	27 Kagithane	252	0	271	147	22	862	10,152	6,552	0	0
	28 Kucukcekmece	1	4,542	15,316	14,299	6,338	1,402	33	55	1,911	10
	29 Sariyer	91	1	45	29	0	103	3,708	132	0	0
	30 Silivri	0	0	0	0	0	0	0	0	538	273
	31 Sisli	1,206	4	531	374	35	1,342	12,298	15,652	0	0
	32 Zeytinburnu	104	89	1,964	4,496	8,517	3,428	151	784	15	0
	33 Gebze	1	0	0	0	0	0	0	0	0	0
Total		556,298	233,918	576,540	405,665	228,258	247,104	184,988	264,269	410,644	39,222

Table 2.1.1 Present Person Trip Origin and Destination Matrix (2006) cont'd
(4) Walking Passenger cont'ed

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	21	0	0	0	2	1	0	0	0	0
	2 Beykoz	51	5	39	1	87	1	322	0	539	0
	3 Kadikoy	371	86	71	89	217	83	146	44	67	0
	4 Kartal	0	0	0	0	0	0	0	0	0	0
	5 Maltepe	88	0	0	0	3	0	3	0	9	0
	6 Pendik	0	0	0	0	0	0	0	0	0	0
	7 Sultanbeyli	0	0	0	0	0	0	0	0	0	0
	8 Sile	0	0	0	0	0	0	0	0	0	0
	9 Tuzla	0	0	0	0	0	0	0	0	0	0
	10 Umranyye	305	8	19	11	47	5	139	0	147	0
	11 Uskudar	708	48	83	58	174	37	333	6	115	0
	12 Avcilar	16	65	0	2	27	100	0	4,538	0	0
	13 Bagcilar	869	19,004	1,151	988	5,291	11,102	189	15,264	31	0
	14 Baahcelievler	1,147	4,015	483	1,235	1,548	8,322	104	14,319	24	0
	15 Bakirkoy	460	1,675	252	1,508	718	4,842	89	6,446	3	0
	16 Bayrampasa	2,254	11,087	4,999	3,500	19,167	4,056	915	1,482	128	0
	17 Besiktas	727	417	1,126	564	1,799	252	10,495	89	4,094	0
	18 Beyoglu	3,819	751	2,714	3,640	2,707	534	6,773	179	233	0
	19 Buyukcekmece	1	54	0	0	55	36	0	2,000	0	530
	20 Catalca	0	0	0	0	186	0	0	19	0	273
	21 Eminonu	106,373	1,690	1,573	17,141	2,835	1,603	939	628	194	0
	22 Esenler	1,581	228,660	2,055	1,752	9,937	15,626	391	4,298	70	0
	23 Eyup	1,476	2,089	178,528	2,874	21,877	870	4,499	374	421	0
	24 Fatih	17,053	1,906	3,005	323,018	2,832	2,088	788	593	27	0
	25 Gaziosmanpasa	2,687	9,912	21,798	2,551	736,953	2,039	3,863	2,438	596	0
	26 Gungoren	1,538	15,662	900	2,108	2,072	152,448	227	1,932	21	0
	27 Kagithane	803	491	4,418	583	3,925	213	235,065	71	2,438	0
	28 Kucukcekmece	476	4,286	319	330	2,455	1,903	39	408,944	13	0
	29 Sariyer	77	90	383	4	667	30	2,349	23	219,587	0
	30 Silivri	0	0	0	0	0	0	0	0	0	77,246
	31 Sisli	1,304	986	3,161	1,836	4,091	542	22,099	229	2,474	0
	32 Zeytinburnu	2,568	2,860	1,194	10,217	2,109	6,848	351	1,152	22	0
	33 Gebze	0	0	0	0	0	0	0	0	0	0
Total		146,773	305,847	228,271	374,010	821,781	213,581	290,118	465,068	231,253	78,049

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	2	0	0	8,081
	2 Beykoz	375	1	0	184,293
	3 Kadikoy	213	64	2	617,102
	4 Kartal	0	0	68	356,059
	5 Maltepe	33	0	33	296,575
	6 Pendik	0	0	631	374,085
	7 Sultanbeyli	0	0	41	195,873
	8 Sile	0	0	0	19,008
	9 Tuzla	0	0	2,455	98,193
	10 Umranyye	429	14	0	594,596
	11 Uskudar	766	61	0	555,563
	12 Avcilar	0	61	0	233,698
	13 Bagcilar	260	1,942	0	575,552
	14 Baahcelievler	200	4,471	0	405,017
	15 Bakirkoy	40	8,510	0	229,496
	16 Bayrampasa	1,158	3,428	0	246,996
	17 Besiktas	12,502	232	0	189,039
	18 Beyoglu	15,456	857	0	265,826
	19 Buyukcekmece	0	0	0	410,724
	20 Catalca	0	0	0	39,253
	21 Eminonu	1,230	2,605	0	148,587
	22 Esenler	629	2,844	0	304,421
	23 Eyup	2,965	1,129	0	227,617
	24 Fatih	1,066	10,266	0	373,741
	25 Gaziosmanpasa	3,742	2,078	0	819,470
	26 Gungoren	393	6,866	0	213,349
	27 Kagithane	21,918	298	0	289,026
	28 Kucukcekmece	54	1,107	0	463,859
	29 Sariyer	2,036	10	0	229,991
	30 Silivri	0	0	0	78,057
	31 Sisli	313,717	626	0	384,503
	32 Zeytinburnu	459	223,794	0	271,299
	33 Gebze	0	0	342,621	346,024
Total		379,643	271,264	345,851	10,044,973

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing Case (2023)

(1) Public Transport Passenger

Zone 1 – 10

Passenger/ day

	Zone Name	Destination Zone									
		1	2	3	4	5	6	7	8	9	10
Origin Zone	1 Adalar	5,255	625	2,042	1,794	1,488	947	167	1,254	2,866	1,468
	2 Beykoz	263	21,054	4,328	2,795	2,095	1,245	326	1,782	3,552	6,235
	3 Kadikoy	1,050	2,657	108,133	22,098	31,030	7,071	1,825	3,408	21,640	33,740
	4 Kartal	666	1,746	10,397	151,783	29,931	31,289	5,943	3,532	33,053	17,713
	5 Maltepe	1,375	2,262	22,052	40,576	72,695	12,197	1,930	3,917	24,627	13,918
	6 Pendik	596	1,683	7,454	69,908	15,164	141,590	12,935	4,243	114,670	10,624
	7 Sultanbeyli	154	707	2,696	11,582	2,930	11,482	14,473	1,654	19,737	5,882
	8 Sile	80	396	665	748	359	404	136	18,460	1,068	1,305
	9 Tuzla	231	524	2,596	9,609	3,690	18,592	1,576	1,200	99,474	3,053
	10 Umranyye	1,000	6,901	44,754	38,261	17,898	12,524	5,148	8,791	35,821	123,511
	11 Uskudar	827	4,964	46,918	14,210	13,049	5,196	1,270	3,952	18,026	36,171
	12 Avclar	39	344	553	423	248	189	24	392	804	409
	13 Bagcilar	67	984	1,337	1,072	651	459	70	682	1,815	1,118
	14 Baahcelievler	62	678	972	774	453	339	50	574	1,372	778
	15 Bakirkoy	20	145	318	171	128	67	3	107	295	207
	16 Bayrampasa	160	1,136	1,567	1,150	739	586	104	1,118	1,974	1,309
	17 Besiktas	93	1,663	1,841	929	741	381	94	291	1,201	1,660
	18 Beyoglu	26	407	627	328	228	83	10	118	572	471
	19 Buyukcekmece	173	1,493	2,526	1,992	1,141	890	130	1,788	3,748	1,878
	20 Catalca	74	341	649	447	281	193	29	508	861	459
	21 Eminonu	8	74	175	81	65	22	0	25	131	123
	22 Esenler	100	1,008	1,356	1,059	648	469	90	767	1,850	1,133
	23 Eyup	111	1,531	1,806	1,352	872	580	117	731	2,125	1,648
	24 Fatih	22	268	468	283	176	61	1	139	636	335
	25 Gaziosmanpasa	218	3,058	3,711	3,083	1,813	1,314	230	1,949	5,182	3,279
	26 Gungoren	72	522	830	586	357	275	45	487	1,045	625
	27 Kagithane	119	2,409	2,399	1,534	1,120	698	155	613	2,113	2,367
	28 Kucukcekmece	343	3,020	4,774	3,880	2,185	1,795	277	3,743	7,276	3,660
	29 Sariyer	183	1,885	2,252	1,755	1,149	758	144	1,100	2,873	2,089
	30 Silivri	193	1,234	2,187	1,668	950	785	122	1,730	3,124	1,576
	31 Sisli	70	1,235	1,655	856	656	337	64	299	1,197	1,323
	32 Zeytinburnu	32	447	694	466	294	203	30	283	768	535
	33 Gebze	515	1,617	6,329	17,283	7,118	18,139	2,062	4,081	108,821	7,001
	Total	14,197	69,018	291,061	404,536	212,342	271,160	49,580	73,718	524,317	287,603

Zone 10 - 20

	Zone Name	Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	917	525	2,731	2,427	1,327	1,449	376	768	1,550	1,838
	2 Beykoz	3,578	424	2,897	2,362	1,228	1,547	632	748	1,414	1,226
	3 Kadikoy	24,138	620	3,300	2,765	2,244	2,287	1,015	1,437	2,160	2,546
	4 Kartal	3,418	577	3,197	2,806	1,518	1,734	566	834	1,782	1,907
	5 Maltepe	6,319	782	4,256	3,601	2,385	2,585	1,007	1,452	2,656	3,132
	6 Pendik	2,690	719	3,907	3,489	1,916	2,088	685	1,033	2,101	2,379
	7 Sultanbeyli	973	141	700	605	490	502	195	304	501	642
	8 Sile	295	144	806	792	322	387	76	115	431	396
	9 Tuzla	1,007	363	1,960	1,846	706	864	235	327	973	808
	10 Umranyye	19,454	841	4,648	3,802	3,310	3,391	1,484	2,181	3,253	4,031
	11 Uskudar	79,113	750	4,389	3,668	3,017	3,089	1,316	1,855	2,722	3,328
	12 Avclar	257	29,338	3,923	3,206	6,054	1,924	480	1,016	51,850	5,312
	13 Bagcilar	696	2,363	85,307	35,600	12,902	8,551	1,554	2,681	8,611	4,447
	14 Baahcelievler	512	2,484	31,225	50,362	19,287	4,905	1,054	2,224	7,509	3,898
	15 Bakirkoy	171	2,680	4,993	16,406	34,352	1,878	378	928	3,761	931
	16 Bayrampasa	889	1,299	10,755	6,183	6,012	25,794	1,661	2,860	5,602	4,696
	17 Besiktas	1,389	335	3,177	2,739	1,569	2,518	26,820	3,532	1,051	629
	18 Beyoglu	393	376	4,018	3,578	2,169	3,319	4,388	35,771	982	507
	19 Buyukcekmece	1,172	60,031	18,276	13,271	19,284	8,989	2,126	4,042	315,656	38,286
	20 Catalca	273	3,494	4,602	3,326	2,975	2,146	410	819	18,673	60,777
	21 Eminonu	114	200	2,133	2,076	1,425	2,104	720	3,365	469	176
	22 Esenler	736	1,721	22,558	9,441	9,202	11,179	1,548	2,818	7,142	4,270
	23 Eyup	1,061	918	7,949	5,153	4,937	11,359	2,779	4,965	3,828	2,801
	24 Fatih	259	803	7,795	7,965	10,345	10,848	1,633	5,950	1,889	871
	25 Gaziosmanpasa	1,986	2,602	18,706	10,092	11,954	20,339	4,822	7,804	12,478	15,338
	26 Gungoren	479	1,127	7,715	6,703	8,944	5,482	904	1,890	3,542	2,528
	27 Kagithane	1,655	628	5,991	4,464	3,498	5,641	7,478	7,113	2,389	1,513
	28 Kucukcekmece	2,398	19,241	46,867	29,819	34,041	16,260	4,091	7,824	69,112	31,471
	29 Sariyer	1,158	697	4,874	3,658	2,932	3,550	3,078	2,453	2,752	2,545
	30 Silivri	1,032	12,286	16,822	13,473	10,652	7,129	1,632	3,062	73,584	37,830
	31 Sisli	1,219	432	4,548	3,821	2,379	3,978	11,207	8,859	1,474	836
	32 Zeytinburnu	441	1,208	5,860	11,784	21,032	6,451	1,125	2,783	3,008	1,402
	33 Gebze	2,675	1,311	7,845	7,258	2,512	3,149	938	1,321	3,281	2,984
	Total	162,867	151,460	358,730	278,541	246,920	187,416	88,413	125,134	618,186	246,281

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023 cont'd)
 (1) Public Transport Passenger cont'd

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	1,303	1,391	825	598	2,050	936	479	8,775	452	1,724
	2 Beykoz	1,025	1,465	967	376	2,592	892	957	7,435	743	1,292
	3 Kadikoy	2,034	1,684	1,440	803	2,673	1,293	1,260	9,100	947	2,487
	4 Kartal	1,293	1,547	937	509	2,630	1,042	740	9,997	621	1,952
	5 Maltepe	2,111	2,149	1,552	959	3,525	1,521	1,238	12,811	1,069	3,046
	6 Pendik	1,629	1,853	1,106	608	3,060	1,279	834	12,508	719	2,264
	7 Sultanbeyli	463	354	311	178	564	283	254	2,072	198	593
	8 Sile	281	407	166	61	648	237	117	3,013	119	491
	9 Tuzla	531	931	404	225	1,572	558	292	6,777	291	964
	10 Umranyye	3,055	2,420	2,248	1,329	3,845	1,872	1,951	12,476	1,464	3,792
	11 Uskudar	2,645	2,223	1,980	1,093	3,521	1,764	1,700	11,282	1,265	3,148
	12 Avcilar	1,625	1,753	1,113	1,080	1,617	1,311	714	14,968	420	5,531
	13 Bagcilar	3,702	14,132	4,134	3,075	6,703	8,848	2,820	30,445	1,205	4,376
	14 Baahcelievler	3,350	5,257	2,541	2,626	3,249	5,985	1,688	27,212	820	3,853
	15 Bakirkoy	1,462	1,568	953	1,727	1,065	3,897	559	10,533	215	1,179
	16 Bayrampasa	3,794	9,009	6,463	3,574	17,021	5,006	2,893	15,467	1,380	4,842
	17 Besiktas	1,450	1,876	2,534	1,203	4,015	1,383	8,791	4,609	3,555	701
	18 Beyoglu	2,210	2,296	5,080	2,793	6,794	1,806	6,367	4,415	673	561
	19 Buyukcekmece	6,544	8,442	5,005	3,922	8,649	5,137	3,237	81,770	1,984	53,966
	20 Catalca	1,476	2,148	1,262	764	7,769	1,208	676	19,495	454	14,821
	21 Eminonu	15,880	1,293	1,406	6,146	1,613	778	620	1,841	147	253
	22 Esenler	3,891	26,862	4,571	3,329	9,304	12,119	2,679	23,125	1,187	4,126
	23 Eyup	3,629	4,915	27,671	3,625	28,406	3,530	7,649	10,507	2,593	2,601
	24 Fatih	9,118	4,880	7,977	57,745	6,162	4,466	2,656	6,663	421	926
	25 Gaziosmanpasa	7,295	10,638	16,658	5,523	90,362	6,595	10,402	33,021	3,738	9,100
	26 Gungoren	2,826	7,557	2,317	2,349	3,089	16,061	1,344	8,646	621	2,496
	27 Kagithane	2,774	3,496	10,492	2,596	13,220	2,867	51,170	7,887	4,065	1,606
	28 Kucukcekmece	12,321	27,825	9,507	7,659	21,095	9,347	6,314	172,144	3,903	30,815
	29 Sariyer	2,488	2,675	3,252	1,356	5,254	1,839	4,208	10,305	44,197	2,539
	30 Silivri	5,133	6,870	3,814	2,788	9,207	4,394	2,385	80,339	1,730	474,776
	31 Sisli	2,140	2,693	5,246	2,025	7,423	2,103	17,338	5,657	2,608	976
	32 Zeytinburnu	4,077	3,636	3,213	7,132	3,221	9,244	1,654	7,772	543	1,523
	33 Gebze	1,930	3,519	1,440	909	6,122	2,211	1,103	26,927	1,135	3,054
	Total	115,485	169,764	138,585	130,685	288,040	121,812	147,089	699,994	85,482	646,374

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	2,067	2,382	1,804	56,600
	2 Beykoz	2,906	2,068	2,033	84,482
	3 Kadikoy	5,148	3,917	8,589	316,539
	4 Kartal	3,059	2,688	12,315	343,722
	5 Maltepe	5,100	4,284	11,098	274,187
	6 Pendik	3,813	3,422	26,547	459,516
	7 Sultanbeyli	1,125	931	5,245	88,921
	8 Sile	500	562	756	34,743
	9 Tuzla	1,098	1,141	30,686	195,104
	10 Umranyye	7,770	5,966	13,652	402,844
	11 Uskudar	6,928	5,315	7,591	298,285
	12 Avcilar	2,389	3,013	435	142,754
	13 Bagcilar	6,756	7,271	900	265,334
	14 Baahcelievler	4,724	6,499	717	198,033
	15 Bakirkoy	1,487	3,840	207	96,631
	16 Bayrampasa	7,118	7,199	1,259	160,619
	17 Besiktas	15,064	2,231	708	100,773
	18 Beyoglu	17,423	2,530	299	111,618
	19 Buyukcekmece	10,878	13,471	2,008	701,905
	20 Catalca	2,413	3,192	605	157,620
	21 Eminonu	1,917	1,741	94	47,215
	22 Esenler	7,053	7,954	984	186,279
	23 Eyup	11,465	5,889	1,102	170,205
	24 Fatih	6,747	12,476	307	171,291
	25 Gaziosmanpasa	20,491	13,829	2,477	360,087
	26 Gungoren	4,125	7,074	613	103,276
	27 Kagithane	25,276	4,550	1,111	185,007
	28 Kucukcekmece	20,772	24,715	3,908	642,402
	29 Sariyer	10,292	4,649	1,624	136,563
	30 Silivri	8,918	11,330	1,847	804,602
	31 Sisli	65,420	3,064	666	163,804
	32 Zeytinburnu	4,427	25,964	406	131,658
	33 Gebze	4,571	4,358	327,156	590,675
	Total	299,240	209,515	469,749	8,183,294

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023 cont’d)
 (2) Service Vehicle Passenger

Zone 1 – 10		Destination Zone										Passenger/ day
Zone Name		1	2	3	4	5	6	7	8	9	10	
Origin Zone	1 Adalar	0	159	385	524	303	211	22	593	1,085	368	
	2 Beykoz	19	5,614	1,865	1,492	948	554	108	1,159	3,006	3,104	
	3 Kadikoy	67	1,389	40,968	10,337	11,313	3,199	606	2,730	15,821	16,089	
	4 Kartal	62	923	4,376	55,570	11,932	10,598	2,401	2,572	19,086	8,948	
	5 Maltepe	85	1,181	8,614	16,200	26,641	4,176	638	3,120	14,141	6,987	
	6 Pendik	71	1,179	4,032	33,937	8,049	59,930	7,441	3,850	67,086	7,076	
	7 Sultanbeyli	11	428	1,402	5,657	1,535	4,456	6,595	1,278	14,258	2,982	
	8 Sile	16	178	364	432	237	231	70	6,731	965	664	
	9 Tuzla	43	371	1,420	4,205	1,920	7,399	1,067	1,142	42,493	2,341	
	10 Umranyye	65	3,523	20,183	20,388	8,487	6,419	1,805	6,027	31,076	58,451	
	11 Uskudar	52	2,417	21,586	8,101	5,968	2,838	432	3,314	15,788	19,626	
	12 Avcilar	0	195	190	250	113	108	8	359	691	210	
	13 Bagcilar	1	685	621	786	375	345	28	812	1,981	732	
	14 Baahcelievler	0	412	389	514	229	220	18	606	1,328	446	
	15 Bakirkoy	0	38	46	55	26	13	0	79	184	54	
	16 Bayrampasa	2	451	411	493	230	215	18	608	1,284	466	
	17 Besiktas	0	449	516	375	202	123	2	211	875	522	
	18 Beyoglu	0	180	197	172	77	51	0	120	478	188	
	19 Buyukcekmece	6	1,236	1,239	1,644	733	725	58	2,341	4,384	1,354	
	20 Catalca	3	298	340	410	195	196	13	692	1,102	356	
	21 Eminonu	0	7	7	14	8	0	0	12	55	18	
	22 Esenler	2	555	514	659	298	281	25	706	1,681	572	
	23 Eyup	0	837	741	881	421	361	28	744	2,192	842	
	24 Fatih	0	163	168	171	67	46	0	151	545	159	
	25 Gaziosmanpasa	6	2,220	1,896	2,465	1,152	1,029	86	2,340	6,135	2,250	
	26 Gungoren	1	258	279	326	147	146	12	434	891	278	
	27 Kagithane	1	927	817	782	417	307	22	490	1,768	906	
	28 Kucukcekmece	13	1,889	1,869	2,509	1,120	1,166	107	3,752	6,740	2,077	
	29 Sariyer	1	672	711	865	404	347	19	845	2,183	828	
	30 Silivri	20	1,199	1,286	1,609	748	757	75	2,539	4,264	1,396	
	31 Sisli	0	424	502	381	202	135	4	251	922	480	
	32 Zeytinburnu	1	180	183	198	96	91	3	209	510	180	
	33 Gebze	106	1,116	3,316	7,277	3,422	7,452	1,429	4,051	49,009	5,648	
Total		654	31,753	121,433	179,679	88,015	114,125	23,140	54,868	314,007	146,598	

Zone 11 - 20

Zone Name		Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	182	132	941	666	298	337	93	172	453	662
	2 Beykoz	1,047	429	4,101	2,658	648	1,034	302	311	1,261	986
	3 Kadikoy	9,214	293	2,278	1,527	841	1,011	454	555	1,201	1,808
	4 Kartal	1,421	324	2,860	1,955	606	855	277	343	1,140	1,306
	5 Maltepe	2,440	367	3,057	2,021	872	1,108	436	546	1,464	1,992
	6 Pendik	1,548	499	4,423	3,055	937	1,321	431	531	1,737	2,004
	7 Sultanbeyli	496	113	890	620	273	347	133	165	417	603
	8 Sile	158	240	1,919	1,406	221	405	51	49	624	393
	9 Tuzla	604	278	2,608	1,851	329	591	136	133	854	575
	10 Umranyye	7,575	593	4,521	2,988	1,569	1,891	825	992	2,331	3,320
	11 Uskudar	29,063	438	3,311	2,205	1,263	1,486	654	779	1,681	2,504
	12 Avcilar	84	11,029	2,081	1,504	2,098	862	231	410	23,052	2,968
	13 Bagcilar	302	1,231	41,925	17,683	5,989	4,241	908	1,331	5,180	3,798
	14 Baahcelievler	187	1,081	15,671	23,845	7,280	2,196	557	983	3,735	2,679
	15 Bakirkoy	22	923	2,327	7,881	8,331	528	104	243	1,210	401
	16 Bayrampasa	204	409	5,464	2,440	1,825	9,558	651	936	1,971	1,880
	17 Besiktas	301	252	3,485	2,546	651	1,244	7,592	1,070	651	416
	18 Beyoglu	108	288	4,157	3,074	932	1,699	1,673	8,174	654	358
	19 Buyukcekmece	571	33,407	17,493	10,493	9,297	5,729	1,402	2,219	161,081	23,169
	20 Catalca	146	3,214	7,557	4,515	1,696	1,589	314	491	13,026	24,591
	21 Eminonu	5	99	1,514	1,233	406	706	157	608	170	67
	22 Esenler	269	805	12,208	5,182	3,737	4,490	777	1,222	3,757	2,948
	23 Eyup	376	561	6,699	3,547	2,216	4,710	1,420	2,056	2,426	2,150
	24 Fatih	100	508	6,996	6,290	4,161	5,058	722	2,180	1,091	612
	25 Gaziosmanpasa	941	1,567	11,493	6,062	5,881	9,154	3,052	4,141	8,015	10,673
	26 Gungoren	154	482	3,578	3,124	3,319	2,128	422	755	1,629	1,607
	27 Kagithane	477	451	6,159	4,075	1,654	3,029	3,137	2,428	1,613	1,201
	28 Kucukcekmece	918	8,194	25,035	15,623	12,938	7,597	2,123	3,394	34,047	21,433
	29 Sariyer	326	492	4,647	2,815	1,202	1,708	1,213	875	1,756	1,799
	30 Silivri	604	13,516	37,766	21,743	6,812	7,004	1,320	2,004	56,837	26,764
	31 Sisli	290	325	4,958	3,524	1,052	2,103	3,811	2,878	972	608
	32 Zeytinburnu	106	477	3,046	6,117	6,301	2,214	409	882	1,251	747
	33 Gebze	1,528	928	8,410	5,842	1,146	1,899	458	493	2,802	2,034
Total		61,767	83,945	263,578	180,110	96,781	89,832	36,245	44,349	340,089	149,056

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023) cont'd
 (2) Service Vehicle Passenger Cont'd

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	225	344	171	123	631	261	130	2,330	130	616
	2 Beykoz	334	1,442	447	171	4,060	830	472	9,438	444	1,100
	3 Kadikoy	589	855	583	312	2,004	671	627	5,168	590	1,718
	4 Kartal	397	1,006	392	191	2,660	672	391	7,430	457	1,352
	5 Maltepe	604	1,101	617	316	2,815	791	625	7,502	673	1,922
	6 Pendik	608	1,559	628	303	4,053	1,063	604	11,766	721	2,009
	7 Sultanbeyli	187	328	180	95	791	240	175	2,277	179	558
	8 Sile	83	687	120	25	1,716	389	88	6,208	149	618
	9 Tuzla	159	921	219	80	2,464	555	186	7,377	278	785
	10 Umranyye	1,050	1,677	1,070	584	4,022	1,242	1,158	10,747	1,099	3,108
	11 Uskudar	830	1,233	859	455	2,825	976	936	7,205	835	2,306
	12 Avcilar	528	725	465	388	716	535	398	5,466	269	2,902
	13 Bagcilar	1,477	5,715	2,058	1,433	2,896	3,739	1,777	13,679	869	3,698
	14 Baahcelievler	1,180	2,288	1,114	1,069	1,378	2,200	991	11,578	558	2,529
	15 Bakirkoy	318	465	237	355	402	1,177	175	3,657	68	484
	16 Bayrampasa	967	3,507	2,026	1,079	7,939	1,889	1,293	4,353	585	1,834
	17 Besiktas	378	1,426	914	325	4,732	971	3,253	4,007	1,959	455
	18 Beyoglu	597	1,816	2,006	750	7,013	1,228	2,572	3,584	445	372
	19 Buyukcekmece	2,842	5,908	2,867	2,015	7,508	3,281	2,504	66,693	1,794	28,835
	20 Catalca	665	2,257	696	417	7,769	1,216	564	31,009	506	9,725
	21 Eminonu	2,885	717	345	1,242	1,091	355	156	986	40	92
	22 Esenler	1,344	11,691	1,820	1,335	4,277	5,079	1,415	9,994	726	2,810
	23 Eyup	1,370	2,739	8,854	1,343	18,749	1,846	3,627	7,498	1,730	2,027
	24 Fatih	2,769	3,438	3,040	15,828	5,118	2,529	1,185	4,517	291	602
	25 Gaziosmanpasa	3,118	4,640	6,355	2,670	41,637	3,381	6,649	21,272	3,000	7,760
	26 Gungoren	910	2,488	865	834	1,370	6,339	664	3,399	367	1,517
	27 Kagithane	953	2,493	3,973	946	13,737	1,889	20,666	6,522	2,366	1,194
	28 Kucukcekmece	4,174	12,049	4,271	3,097	9,463	3,874	3,658	68,061	2,708	19,992
	29 Sariyer	743	1,690	1,194	472	5,607	1,104	1,814	8,417	15,237	1,810
	30 Silivri	2,591	11,078	2,828	1,721	20,613	5,677	2,272	155,079	2,113	214,784
	31 Sisli	637	2,094	2,176	617	8,525	1,476	6,778	4,835	1,313	680
	32 Zeytinburnu	1,075	1,479	970	1,851	1,627	3,460	644	3,023	241	772
	33 Gebze	561	2,906	763	307	7,933	1,813	657	23,758	964	2,448
	Total	37,148	94,762	55,123	42,749	208,141	62,748	69,104	538,835	43,704	323,414

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	545	492	336	13,920
	2 Beykoz	1,338	952	862	52,536
	3 Kadikoy	2,383	1,428	3,366	141,995
	4 Kartal	1,534	1,030	3,840	148,907
	5 Maltepe	2,367	1,486	3,223	120,128
	6 Pendik	2,346	1,602	9,787	246,186
	7 Sultanbeyli	728	467	2,238	51,102
	8 Sile	301	325	464	26,527
	9 Tuzla	597	510	10,245	94,736
	10 Umranyye	4,285	2,544	6,424	222,039
	11 Uskudar	3,396	2,027	3,569	150,958
	12 Avcilar	1,217	1,116	215	61,383
	13 Bagcilar	4,041	3,123	579	134,038
	14 Baahcelievler	2,650	2,314	397	92,622
	15 Bakirkoy	503	844	67	31,217
	16 Bayrampasa	2,854	1,983	381	60,206
	17 Besiktas	5,612	881	221	46,617
	18 Beyoglu	6,792	1,160	114	51,029
	19 Buyukcekmece	7,440	6,703	1,380	418,351
	20 Catalca	1,806	1,776	424	119,574
	21 Eminonu	478	662	23	14,158
	22 Esenler	3,603	2,852	476	88,110
	23 Eyup	5,886	2,458	586	91,921
	24 Fatih	3,057	5,797	132	77,491
	25 Gaziosmanpasa	12,834	6,318	1,677	201,869
	26 Gungoren	2,096	2,320	268	43,407
	27 Kagithane	11,208	1,935	456	98,999
	28 Kucukcekmece	11,142	9,433	2,098	306,564
	29 Sariyer	4,103	1,737	632	68,268
	30 Silivri	7,237	7,210	1,438	622,904
	31 Sisli	24,268	1,298	252	78,771
	32 Zeytinburnu	1,741	7,058	147	47,289
	33 Gebze	2,196	1,762	87,827	242,261
	Total	142,584	83,603	144,144	4,266,083

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023 cont'd)
 (3) Car Passenger

Zone 1 – 10

		Zone Name	Destination Zone									
			1	2	3	4	5	6	7	8	9	10
Origin Zone	1	Adalar	0	336	801	932	698	504	98	566	1,385	789
	2	Beykoz	161	16,607	3,957	2,903	2,131	1,565	444	1,861	3,930	6,395
	3	Kadikoy	1,077	5,505	140,421	35,003	44,784	12,252	3,143	5,956	39,252	52,058
	4	Kartal	350	2,093	7,473	102,231	19,258	24,886	4,436	3,010	27,581	14,664
	5	Maltepe	760	2,742	17,508	32,947	51,810	10,693	1,951	3,628	21,062	13,364
	6	Pendik	295	1,876	5,113	47,276	9,882	97,339	8,911	3,445	95,067	9,272
	7	Sultanbeyli	65	571	1,549	6,512	1,757	6,846	7,084	894	12,684	3,661
	8	Sile	64	768	788	1,002	536	729	198	18,784	1,580	1,553
	9	Tuzla	143	1,021	2,510	8,863	3,157	16,645	1,612	1,860	81,737	3,953
	10	Umranyye	541	6,703	35,443	30,442	14,693	11,291	4,026	5,988	33,210	89,176
	11	Uskudar	639	6,369	46,617	16,048	14,142	6,586	1,641	4,118	22,730	37,660
	12	Avcilar	18	259	271	240	151	133	25	201	420	292
	13	Bagcilar	36	783	763	623	415	344	68	357	960	854
	14	Baahcelievler	34	645	668	576	371	301	62	397	973	716
	15	Bakirkoy	25	404	452	349	234	191	33	282	628	464
	16	Bayrampasa	48	775	748	588	396	333	71	451	920	814
	17	Besiktas	114	4,065	3,110	1,870	1,429	899	240	688	2,686	3,541
	18	Beyoglu	9	268	338	153	130	44	2	45	316	326
	19	Buyukcekmece	131	1,952	2,019	1,912	1,140	1,040	182	1,690	3,572	2,136
	20	Catalca	47	422	475	360	257	220	42	375	576	504
	21	Eminonu	1	86	107	50	45	19	2	21	75	93
	22	Esenler	41	753	739	621	407	327	59	393	1,022	829
	23	Eyup	57	1,253	1,081	834	575	414	94	422	1,340	1,239
	24	Fatih	1	131	189	118	70	18	0	37	314	186
	25	Gaziosmanpasa	98	2,365	2,039	1,774	1,149	901	183	988	2,908	2,406
	26	Gungoren	33	431	475	370	237	209	42	290	638	482
	27	Kagitthane	52	1,901	1,547	1,000	755	510	120	361	1,371	1,766
	28	Kucukcekmece	176	2,481	2,513	2,329	1,423	1,310	243	2,131	4,228	2,739
	29	Sariyer	139	2,481	2,144	1,819	1,198	917	202	1,235	3,205	2,691
	30	Silivri	123	1,148	1,214	1,073	699	643	133	1,101	1,866	1,304
	31	Sisli	57	1,807	1,775	1,049	785	519	122	401	1,503	1,827
	32	Zeytinburnu	14	274	323	209	149	104	20	124	337	326
	33	Gebze	185	1,392	2,969	8,177	3,149	10,019	1,354	3,359	57,448	4,788
Total		5,534	70,667	288,139	310,253	178,012	208,751	36,843	65,459	427,524	262,868	

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	417	104	651	470	313	402	110	215	434	518
	2	Beykoz	3,371	241	1,690	1,066	655	1,001	427	400	1,135	1,061
	3	Kadikoy	30,613	528	3,055	2,012	2,078	2,489	1,309	1,608	2,561	3,321
	4	Kartal	2,770	176	1,185	790	570	775	326	381	949	1,051
	5	Maltepe	5,545	292	1,773	1,154	1,009	1,294	626	788	1,488	1,812
	6	Pendik	2,118	189	1,400	959	636	854	343	434	955	1,103
	7	Sultanbeyli	596	34	250	165	140	191	69	88	196	230
	8	Sile	437	88	515	341	198	288	113	101	469	508
	9	Tuzla	1,199	126	808	537	309	438	218	219	630	654
	10	Umranyye	15,077	347	2,166	1,388	1,362	1,757	887	1,053	1,832	2,144
	11	Uskudar	76,916	437	2,781	1,807	1,851	2,291	1,088	1,330	2,098	2,643
	12	Avcilar	141	16,413	3,170	2,382	3,332	1,268	290	515	38,291	3,848
	13	Bagcilar	476	1,692	48,567	22,946	6,940	5,515	979	1,413	6,780	3,135
	14	Baahcelievler	412	2,046	26,401	38,303	16,935	4,222	880	1,576	6,628	3,023
	15	Bakirkoy	296	4,735	10,800	22,387	42,404	3,094	642	1,412	8,203	2,158
	16	Bayrampasa	494	591	6,002	2,690	2,616	14,742	1,070	1,554	3,045	2,158
	17	Besiktas	2,604	518	4,864	3,232	2,346	4,394	42,902	5,281	2,165	1,518
	18	Beyoglu	242	151	1,735	1,152	942	1,798	2,493	20,413	589	286
	19	Buyukcekmece	1,111	54,126	22,144	13,832	16,194	9,766	2,145	3,475	333,286	42,886
	20	Catalca	264	2,346	3,899	2,232	1,701	1,680	348	501	15,844	45,795
	21	Eminonu	66	65	670	460	553	910	360	1,448	247	114
	22	Esenler	451	1,306	17,821	7,822	5,284	7,029	977	1,524	6,343	3,127
	23	Eyup	720	568	5,354	2,737	2,552	6,764	1,928	2,959	2,878	2,145
	24	Fatih	118	378	3,518	2,835	4,593	5,848	887	3,178	1,117	449
	25	Gaziosmanpasa	1,289	1,646	12,526	6,226	5,735	12,606	3,197	4,444	8,846	10,179
	26	Gungoren	325	770	5,329	3,783	5,551	3,999	654	1,168	2,757	1,800
	27	Kagitthane	1,172	398	3,697	2,170	1,923	3,875	5,202	4,517	1,918	1,226
	28	Kucukcekmece	1,488	11,852	37,070	22,781	18,281	11,539	2,642	4,243	49,789	22,700
	29	Sariyer	1,292	720	5,138	3,078	2,479	3,730	3,507	2,249	3,399	3,255
	30	Silivri	698	6,462	13,185	7,888	5,462	5,069	1,061	1,682	51,737	37,942
	31	Sisli	1,495	432	4,220	2,663	2,067	4,153	12,707	8,058	1,936	1,231
	32	Zeytinburnu	231	594	3,020	4,143	8,389	3,451	585	1,212	1,779	740
	33	Gebze	1,515	229	1,654	1,133	570	776	353	408	1,007	1,014
Total		155,959	110,600	257,058	187,564	165,970	128,008	91,325	79,847	561,331	205,774	

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023 cont'd)
 (3) Car Passenger Cont'd

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	308	337	259	185	515	250	170	1,611	129	421
	2 Beykoz	489	835	774	209	1,827	523	827	3,681	546	1,072
	3 Kadikoy	1,774	1,524	1,822	959	2,752	1,324	1,884	6,472	1,421	2,945
	4 Kartal	495	564	548	199	1,151	411	535	2,818	455	1,079
	5 Maltepe	889	900	962	490	1,734	700	960	4,025	794	1,661
	6 Pendik	574	634	579	251	1,313	482	550	3,422	467	1,039
	7 Sultanbeyli	124	116	129	48	233	95	117	591	81	211
	8 Sile	158	253	203	69	523	160	189	1,461	197	638
	9 Tuzla	257	388	315	144	810	255	324	2,052	314	777
	10 Umranyye	1,165	1,114	1,300	613	2,006	908	1,348	4,685	1,040	1,897
	11 Uskudar	1,485	1,398	1,642	764	2,422	1,205	1,714	5,708	1,176	2,213
	12 Avclar	666	1,376	736	632	1,401	852	553	9,349	345	3,849
	13 Bagcilar	1,530	9,214	2,859	1,840	4,844	5,404	2,115	20,948	974	3,033
	14 Baahcelievler	1,899	4,907	2,245	2,186	3,107	6,427	1,633	23,700	812	2,854
	15 Bakirkoy	1,787	3,057	1,609	2,620	2,132	5,344	1,090	18,023	509	2,518
	16 Bayrampasa	1,470	4,858	3,963	2,168	9,344	2,748	2,177	6,111	930	2,054
	17 Besiktas	1,988	2,807	4,793	2,114	6,944	2,296	18,864	6,391	7,713	1,491
	18 Beyoglu	989	997	2,801	1,675	2,991	893	4,089	1,733	390	353
	19 Buyukcekmece	4,520	10,638	5,458	3,795	10,831	5,255	4,085	73,801	2,586	55,220
	20 Catalca	721	1,954	1,075	555	4,749	880	752	12,848	558	15,487
	21 Eminonu	5,596	431	665	3,173	600	298	412	597	98	163
	22 Esenler	1,687	19,091	3,059	2,042	6,144	6,474	2,068	19,896	930	2,935
	23 Eyup	1,791	3,181	16,698	2,334	16,333	2,137	5,622	6,796	2,405	1,731
	24 Fatih	4,341	2,216	3,907	33,453	3,024	2,293	1,808	2,941	227	484
	25 Gaziosmanpasa	3,228	6,779	10,620	3,361	49,387	3,962	7,845	21,571	3,138	5,595
	26 Gungoren	1,388	5,192	1,699	1,672	2,387	11,655	1,132	5,614	533	1,663
	27 Kagithane	1,404	2,203	7,364	1,800	8,045	1,826	33,836	4,554	2,816	1,196
	28 Kucukcekmece	5,319	23,139	6,910	4,714	17,738	6,050	5,018	103,109	3,270	19,368
	29 Sariyer	1,932	2,712	3,992	1,357	6,556	1,869	5,213	9,550	51,940	2,962
	30 Silivri	2,252	5,945	2,884	1,786	8,225	2,955	2,024	45,697	1,519	448,336
	31 Sisli	1,744	2,427	5,655	2,194	7,254	2,052	22,067	5,022	3,440	1,320
	32 Zeytinburnu	1,418	1,806	1,728	3,428	1,806	4,384	1,042	3,681	348	842
	33 Gebze	453	724	519	285	1,563	495	516	4,171	508	1,057
Total		55,841	123,717	99,772	83,115	190,691	82,862	132,579	442,629	92,609	588,464

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	600	603	760	15,891
	2 Beykoz	1,889	1,110	1,842	66,625
	3 Kadikoy	6,343	3,779	11,657	433,681
	4 Kartal	1,649	1,048	8,187	234,094
	5 Maltepe	3,091	1,891	7,379	197,722
	6 Pendik	1,938	1,222	16,916	316,854
	7 Sultanbeyli	433	271	2,823	48,854
	8 Sile	450	330	1,171	34,862
	9 Tuzla	803	515	19,629	153,222
	10 Umranyye	4,365	2,506	9,718	292,191
	11 Uskudar	5,708	3,339	7,275	285,841
	12 Avclar	1,299	1,546	225	94,489
	13 Bagcilar	3,738	3,638	478	164,261
	14 Baahcelievler	3,638	4,688	459	163,724
	15 Bakirkoy	2,524	4,912	334	145,652
	16 Bayrampasa	3,922	3,149	503	83,503
	17 Besiktas	25,630	3,421	1,209	174,127
	18 Beyoglu	10,407	1,118	168	60,036
	19 Buyukcekmece	10,266	11,065	1,664	713,923
	20 Catalca	1,611	1,752	457	121,287
	21 Eminonu	998	589	45	19,057
	22 Esenler	4,014	4,033	506	129,754
	23 Eyup	7,399	3,222	616	106,179
	24 Fatih	3,795	5,643	143	88,260
	25 Gaziosmanpasa	12,394	6,874	1,253	217,512
	26 Gungoren	2,771	4,208	332	69,589
	27 Kagithane	16,052	2,498	654	119,729
	28 Kucukcekmece	12,579	13,062	2,086	424,320
	29 Sariyer	10,423	3,989	1,467	148,840
	30 Silivri	5,262	5,877	1,144	674,396
	31 Sisli	62,630	2,747	716	168,075
	32 Zeytinburnu	2,141	11,457	184	60,289
	33 Gebze	1,495	974	104,784	219,043
Total		232,257	117,076	206,784	6,245,882

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023 cont'd)
(4) Walking Passenger

Zone 1 – 10

Passenger/ day

	Zone Name	Destination Zone									
		1	2	3	4	5	6	7	8	9	10
Origin Zone	1 Adalar	12,976	0	206	171	174	38	2	0	18	71
	2 Beykoz	0	87,500	234	10	15	0	3	37	1	1,483
	3 Kadikoy	187	84	625,854	3,415	18,243	189	235	0	119	25,893
	4 Kartal	83	18	2,289	620,231	19,412	19,266	4,367	1	2,315	8,329
	5 Maltepe	197	20	14,994	16,488	369,110	1,592	401	0	436	5,386
	6 Pendik	36	0	242	41,634	2,714	740,127	11,036	0	36,206	715
	7 Sultanbeyli	2	9	227	4,107	492	6,073	127,470	0	3,609	1,742
	8 Sile	0	8	0	0	0	0	0	35,593	0	17
	9 Tuzla	3	0	12	881	140	9,199	399	0	399,600	53
	10 Umranyye	58	1,148	30,603	9,051	4,677	552	1,972	37	454	672,159
	11 Uskudar	55	1,029	37,617	523	2,405	22	30	0	25	29,380
	12 Avcilar	0	0	0	0	0	0	0	0	0	0
	13 Bagcilar	0	0	4	0	0	0	0	0	0	0
	14 Baahcelievler	0	0	6	0	0	0	0	0	0	0
	15 Bakirkoy	0	0	0	0	0	0	0	0	0	0
	16 Bayrampasa	1	4	39	0	0	0	0	0	0	5
	17 Besiktas	0	504	207	0	0	0	0	0	0	188
	18 Beyoglu	0	6	24	0	0	0	0	0	0	5
	19 Buyukcekmece	0	0	0	0	0	0	0	0	0	0
	20 Catalca	0	0	0	0	0	0	0	0	0	0
	21 Eminonu	0	0	3	0	0	0	0	0	0	0
	22 Esenler	0	0	11	0	0	0	0	0	0	1
	23 Eyup	0	33	21	0	0	0	0	0	0	7
	24 Fatih	0	0	12	0	0	0	0	0	0	0
	25 Gaziosmanpasa	0	30	56	0	0	0	0	0	0	12
	26 Gungoren	1	0	10	0	0	0	0	0	0	2
	27 Kagithane	0	357	110	0	3	0	0	0	0	107
	28 Kucukcekmece	0	0	2	0	0	0	0	0	0	0
	29 Sariyer	0	594	25	0	0	0	0	0	0	108
	30 Silivri	0	0	0	0	0	0	0	0	0	0
	31 Sisli	0	123	91	0	0	0	0	0	0	38
	32 Zeytinburnu	0	0	11	0	0	0	0	0	0	0
	33 Gebze	1	0	5	194	51	1,046	48	0	10,628	7
Total		13,600	91,467	712,915	696,705	417,436	778,104	145,963	35,668	453,411	745,708

Zone 11 - 20

	Zone Name	Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	43	0	27	29	1	15	1	9	0	0
	2 Beykoz	1,336	0	54	32	0	24	47	2	0	0
	3 Kadikoy	21,716	0	109	111	1	80	54	92	0	0
	4 Kartal	196	0	3	11	0	0	0	0	0	0
	5 Maltepe	1,526	0	57	63	0	26	7	10	0	0
	6 Pendik	19	0	3	3	0	1	0	0	0	0
	7 Sultanbeyli	20	0	0	0	0	0	0	0	0	0
	8 Sile	0	0	0	0	0	0	0	0	0	0
	9 Tuzla	0	0	0	0	0	0	0	0	0	0
	10 Umranyye	14,243	0	62	55	3	65	109	131	0	0
	11 Uskudar	452,810	0	257	258	13	250	398	458	0	0
	12 Avcilar	0	190,609	370	495	850	18	0	0	45,944	87
	13 Bagcilar	7	216	546,690	42,254	3,586	4,985	30	187	240	6
	14 Baahcelievler	4	348	36,159	408,592	11,885	1,705	12	142	248	1
	15 Bakirkoy	0	837	2,201	18,397	161,151	453	0	27	190	0
	16 Bayrampasa	40	21	8,205	2,788	1,000	194,067	150	706	53	1
	17 Besiktas	585	0	595	501	34	651	137,816	2,235	0	0
	18 Beyoglu	65	2	1,592	1,348	214	2,066	2,952	150,654	2	0
	19 Buyukcekmece	0	42,033	770	557	498	32	0	0	1,260,957	2,120
	20 Catalca	0	130	40	12	1	0	0	0	2,168	149,615
	21 Eminonu	12	0	580	650	193	806	176	1,625	0	0
	22 Esenler	14	74	24,402	5,768	1,982	10,145	70	359	167	5
	23 Eyup	50	0	2,851	1,165	370	9,146	570	1,573	10	3
	24 Fatih	22	14	3,999	5,334	3,397	7,855	295	3,532	1	0
	25 Gaziosmanpasa	72	13	6,945	1,994	752	16,305	517	1,397	92	784
	26 Gungoren	13	98	8,998	9,394	4,538	4,044	37	244	67	1
	27 Kagithane	314	0	1,633	1,033	197	2,274	6,216	5,390	6	0
	28 Kucukcekmece	1	4,704	32,150	16,640	6,982	1,753	4	75	7,588	224
	29 Sariyer	110	0	189	94	0	166	1,385	112	0	0
	30 Silivri	0	56	4	2	0	0	0	0	6,868	2,037
	31 Sisli	242	0	1,238	937	121	1,564	11,550	8,132	0	0
	32 Zeytinburnu	13	57	2,723	9,406	10,454	4,145	72	601	12	0
	33 Gebze	1	0	0	0	0	0	0	0	0	0
Total		493,474	239,212	682,906	527,923	208,223	262,641	162,468	177,693	1,324,613	154,884

Table 2.1.2 Future Person Trip OD Matrix of “Do Nothing” Case (2023 cont'd)
(4) Walking Passenger cont'ed

Zone 21 – 30

Passenger/ day

		Zone Name	Destination Zone									
			21	22	23	24	25	26	27	28	29	30
Origin Zone	1	Adalar	21	13	4	1	17	14	0	21	1	0
	2	Beykoz	1	22	6	0	126	11	69	35	76	0
	3	Kadikoy	142	45	30	15	91	42	28	62	12	0
	4	Kartal	0	1	0	0	1	0	0	3	0	0
	5	Maltepe	28	21	6	0	50	20	4	35	8	0
	6	Pendik	0	1	0	0	1	1	0	1	0	0
	7	Sultanbeyli	0	0	0	0	0	0	0	0	0	0
	8	Sile	0	0	0	0	0	0	0	0	0	0
	9	Tuzla	0	0	0	0	0	0	0	0	0	0
	10	Umranyye	108	27	34	24	62	27	92	36	22	0
	11	Uskudar	385	132	124	95	299	111	317	166	71	0
	12	Avcilar	0	56	3	0	11	58	0	3,192	0	1
	13	Bagcilar	352	13,456	1,177	586	3,216	10,046	207	21,567	1	0
	14	Baahcelievler	349	2,100	464	599	727	5,779	70	20,521	0	0
	15	Bakirkoy	124	379	108	364	108	2,745	6	5,737	0	0
	16	Bayrampasa	858	9,785	4,604	1,750	20,720	3,962	660	2,842	24	0
	17	Besiktas	392	428	811	258	1,682	255	8,631	196	4,023	0
	18	Beyoglu	1,126	1,171	3,723	1,997	5,084	792	6,578	428	152	0
	19	Buyukcekmece	0	204	2	0	109	58	0	12,180	0	5,084
	20	Catalca	0	6	1	0	1,195	1	0	705	0	1,250
	21	Eminonu	73,738	443	455	4,877	557	285	90	105	6	0
	22	Esenler	569	234,276	1,943	1,032	7,805	17,664	334	11,106	7	0
	23	Eyup	690	2,250	170,423	1,526	35,139	1,155	4,519	965	381	0
	24	Fatih	6,690	3,246	5,783	240,008	4,122	3,158	706	915	17	0
	25	Gaziosmanpasa	954	5,290	11,292	1,450	571,315	2,004	3,329	6,121	143	0
	26	Gungoren	504	11,352	825	968	1,338	120,163	129	2,926	2	0
	27	Kagithane	572	1,150	7,951	768	10,423	719	286,732	541	2,991	0
	28	Kucukcekmece	215	15,065	440	266	3,063	1,664	66	1,290,038	1	0
	29	Sariyer	48	104	288	1	834	48	1,584	144	186,774	0
	30	Silivri	0	0	0	0	4	0	0	108	0	1,151,988
	31	Sisli	606	905	2,788	687	4,598	560	21,328	341	1,531	0
	32	Zeytinburnu	1,260	2,538	1,311	5,086	1,432	8,304	228	1,228	2	0
	33	Gebze	0	0	0	0	0	0	0	0	0	0
		Total	89,732	304,466	214,596	262,358	674,129	179,646	335,707	1,382,265	196,245	1,158,323

Zone 31 - 33

		Zone Name	Destination Zone			Total
			31	32	33	
Origin Zone	1	Adalar	9	27	4	13,913
	2	Beykoz	283	19	0	91,426
	3	Kadikoy	272	153	2	697,276
	4	Kartal	2	0	153	676,681
	5	Maltepe	65	49	42	410,641
	6	Pendik	0	0	1,142	833,882
	7	Sultanbeyli	0	0	52	143,803
	8	Sile	0	0	0	35,618
	9	Tuzla	0	0	7,023	417,310
	10	Umranyye	461	103	2	736,377
	11	Uskudar	1,520	360	0	529,110
	12	Avcilar	0	56	0	241,750
	13	Bagcilar	316	2,920	0	652,049
	14	Baahcelievler	158	2,555	0	492,424
	15	Bakirkoy	18	2,059	0	194,904
	16	Bayrampasa	1,075	4,652	0	258,012
	17	Besiktas	14,734	367	0	175,093
	18	Beyoglu	15,801	1,180	0	196,962
	19	Buyukcekmece	0	44	0	1,324,648
	20	Catalca	0	0	0	155,124
	21	Eminonu	473	900	0	85,974
	22	Esenler	556	4,568	0	322,858
	23	Eyup	3,224	1,951	0	238,022
	24	Fatih	1,904	14,299	0	305,309
	25	Gaziosmanpasa	2,934	4,291	0	638,092
	26	Gungoren	288	4,736	0	170,678
	27	Kagithane	25,550	990	0	356,027
	28	Kucukcekmece	126	1,792	0	1,382,859
	29	Sariyer	3,175	92	0	195,875
	30	Silivri	0	0	0	1,161,067
	31	Sisli	379,623	707	0	437,710
	32	Zeytinburnu	498	191,329	0	240,710
	33	Gebze	0	0	1,071,427	1,083,408
		Total	453,065	240,199	1,079,847	14,895,592

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023)

(1) Public Transport Passenger

Zone 1 – 10

Passenger/ day

	Zone Name	Destination Zone									
		1	2	3	4	5	6	7	8	9	10
Origin Zone	1 Adalar	3,549	536	1,775	1,458	1,585	1,077	228	1,041	1,888	1,513
	2 Beykoz	542	23,333	4,048	2,599	2,565	1,965	755	1,268	3,206	7,286
	3 Kadikoy	1,785	4,366	82,274	14,932	22,954	8,719	3,006	2,179	15,163	39,212
	4 Kartal	1,461	2,756	14,923	93,667	29,106	48,885	10,128	2,813	23,201	28,381
	5 Maltepe	1,570	2,691	22,965	29,145	48,435	13,903	2,987	3,101	15,913	16,872
	6 Pendik	1,094	2,030	8,701	48,966	13,953	120,760	14,738	3,833	68,631	13,305
	7 Sultanbeyli	223	791	3,001	10,132	2,991	14,744	15,896	1,360	16,033	6,904
	8 Sile	1,055	1,564	2,344	3,049	3,236	4,061	1,408	17,000	1,666	6,722
	9 Tuzla	1,895	3,275	15,150	23,201	15,950	68,653	16,044	1,600	76,470	31,542
	10 Umranyye	1,524	7,397	39,148	28,394	16,797	13,300	6,927	6,483	31,475	110,681
	11 Uskudar	936	4,289	27,222	8,598	9,403	4,817	1,473	2,205	14,335	26,082
	12 Avcilar	381	932	1,346	893	898	697	178	802	1,057	1,311
	13 Bagcilar	1,852	4,586	4,278	3,780	4,149	3,692	800	2,126	3,072	5,597
	14 Baahcelievler	1,548	3,201	3,258	2,809	3,106	2,800	587	1,758	2,287	4,048
	15 Bakirkoy	847	1,391	1,964	1,454	1,974	1,703	471	491	816	2,916
	16 Bayrampasa	998	2,291	3,108	2,259	2,447	2,136	568	1,485	2,177	3,735
	17 Besiktas	280	1,327	2,158	923	1,175	706	250	267	1,135	2,109
	18 Beyoglu	415	970	1,804	979	1,260	945	301	227	840	2,067
	19 Buyukcekmece	1,444	4,229	6,576	4,151	3,854	2,873	788	4,362	5,984	6,095
	20 Catalca	1,332	1,954	4,025	2,364	3,233	2,650	742	1,499	1,802	4,786
	21 Eminonu	636	1,675	3,347	1,509	2,065	1,371	490	493	756	3,247
	22 Esenler	898	2,279	2,441	2,078	2,089	1,821	406	1,312	2,277	2,967
	23 Eyup	574	1,941	2,354	1,854	1,775	1,455	352	855	2,520	2,948
	24 Fatih	314	588	1,086	666	876	644	182	180	777	1,352
	25 Gaziosmanpasa	1,590	6,194	6,088	5,430	4,928	4,221	860	3,480	6,964	7,103
	26 Gungoren	620	1,304	1,715	1,302	1,401	1,259	312	858	1,335	2,013
	27 Kagithane	375	2,153	2,545	1,535	1,562	1,077	331	540	2,097	2,906
	28 Kucukcekmece	5,823	12,029	13,196	11,426	12,010	10,924	2,199	9,382	10,771	15,135
	29 Sariyer	412	1,362	1,787	1,424	1,363	1,089	289	851	2,514	2,205
	30 Silivri	1,768	3,866	7,177	3,986	4,181	3,158	913	4,697	5,144	6,579
	31 Sisli	1,084	2,304	3,641	2,417	3,199	2,817	899	523	1,697	5,539
	32 Zeytinburnu	1,140	1,546	2,301	1,902	2,460	2,332	672	592	1,243	3,888
	33 Gebze	1,812	3,555	10,491	20,182	12,728	36,363	6,204	3,629	81,229	17,595
	Total	41,777	114,705	308,237	339,464	239,708	387,617	92,384	83,292	406,475	394,641

Zone 11 - 20

	Zone Name	Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	931	380	1,842	1,538	817	988	253	388	1,418	1,309
	2 Beykoz	4,190	962	4,494	3,158	1,103	2,185	1,852	1,298	4,392	2,012
	3 Kadikoy	27,613	1,353	4,242	3,231	1,801	3,063	2,844	2,336	6,691	4,065
	4 Kartal	8,982	883	3,659	2,740	1,230	2,095	1,223	1,072	4,172	2,319
	5 Maltepe	9,583	854	4,082	3,062	1,778	2,396	1,410	1,346	3,795	3,225
	6 Pendik	4,931	679	3,570	2,717	1,452	1,989	831	860	2,914	2,554
	7 Sultanbeyli	1,561	169	750	568	402	517	324	299	830	724
	8 Sile	2,619	858	2,190	1,802	434	1,498	518	412	4,594	1,663
	9 Tuzla	14,507	1,044	3,031	2,235	743	2,122	1,248	874	6,019	1,788
	10 Umranyye	26,196	1,281	5,468	3,930	2,595	3,563	2,590	2,251	6,177	4,698
	11 Uskudar	64,425	1,054	4,442	3,404	1,936	2,613	2,691	2,111	4,828	3,818
	12 Avcilar	1,069	35,619	5,542	4,262	6,837	3,184	781	1,272	59,351	7,891
	13 Bagcilar	4,599	5,554	66,891	36,142	10,290	12,041	4,055	5,411	32,451	12,465
	14 Baahcelievler	3,477	4,264	36,153	47,327	13,605	6,070	2,795	4,151	20,312	8,223
	15 Bakirkoy	2,244	6,845	10,251	13,603	27,924	4,147	1,436	2,514	25,136	5,078
	16 Bayrampasa	2,756	3,186	12,017	6,027	4,131	28,344	2,428	3,819	18,108	6,951
	17 Besiktas	2,018	755	3,828	2,660	1,091	2,245	19,656	4,380	3,464	1,217
	18 Beyoglu	1,715	1,259	5,174	4,001	2,140	3,589	4,139	26,163	5,497	1,663
	19 Buyukcekmece	4,641	59,316	32,374	20,235	24,929	18,036	3,383	5,255	303,305	43,288
	20 Catalca	3,939	7,818	12,325	8,113	4,852	6,812	1,285	1,529	43,124	63,763
	21 Eminonu	3,056	1,967	5,958	4,332	6,890	8,043	2,199	5,904	8,127	2,378
	22 Esenler	2,298	2,915	19,614	7,349	5,828	10,775	2,233	3,348	16,798	7,108
	23 Eyup	2,002	2,058	8,966	5,041	3,402	8,168	3,049	6,463	11,122	4,656
	24 Fatih	969	1,618	7,478	6,426	7,518	8,357	1,346	4,431	6,242	2,039
	25 Gaziosmanpasa	5,094	4,492	17,530	8,816	8,296	19,979	6,839	10,681	27,153	22,879
	26 Gungoren	1,678	1,854	9,198	5,163	6,129	5,320	1,370	2,283	8,578	3,930
	27 Kagithane	2,145	1,289	7,350	4,774	2,505	5,265	6,266	6,657	6,406	2,449
	28 Kucukcekmece	12,335	23,467	44,729	30,770	23,660	19,792	7,321	8,817	137,576	57,506
	29 Sariyer	1,328	1,168	5,089	3,289	1,497	2,576	2,500	1,545	5,652	3,099
	30 Silivri	5,266	19,356	40,452	25,412	16,652	17,394	2,820	4,251	98,622	42,452
	31 Sisli	4,056	2,566	8,111	5,422	2,002	5,480	8,974	13,671	13,628	3,811
	32 Zeytinburnu	2,776	3,241	7,120	8,712	11,990	6,351	1,550	2,939	15,641	4,416
	33 Gebze	7,963	1,081	2,685	2,050	1,792	2,699	1,603	1,518	5,988	3,814
	Total	242,962	201,205	406,605	288,311	208,251	227,696	103,812	140,249	918,111	339,251

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
 (1) Public Transport Passenger cont’d

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	623	872	545	293	1,569	603	349	5,816	377	1,752
	2 Beykoz	1,708	2,256	1,976	1,024	6,160	1,241	2,437	11,972	1,622	4,009
	3 Kadikoy	3,427	2,466	2,468	1,763	6,019	1,676	2,913	13,150	2,258	7,327
	4 Kartal	1,509	1,979	1,825	832	5,301	1,214	1,705	11,298	1,608	4,065
	5 Maltepe	2,052	2,035	1,764	937	4,831	1,316	1,650	11,905	1,489	4,211
	6 Pendik	1,387	1,705	1,361	598	4,081	1,136	1,142	10,806	1,115	3,205
	7 Sultanbeyli	494	374	385	186	835	273	376	2,145	312	951
	8 Sile	520	1,354	987	426	3,571	881	821	9,431	1,148	4,871
	9 Tuzla	771	2,233	2,483	870	6,923	1,292	2,127	10,714	2,594	5,167
	10 Umranyye	3,286	2,818	2,924	1,541	6,956	1,901	3,171	14,974	2,459	6,714
	11 Uskudar	3,132	2,218	2,086	1,460	5,048	1,596	2,595	12,170	1,633	5,431
	12 Avcilar	1,971	2,904	2,109	1,709	4,483	1,847	1,307	23,477	1,165	19,384
	13 Bagcilar	6,105	19,646	9,122	7,944	17,612	9,221	7,518	44,770	5,296	40,667
	14 Baahcelievler	4,404	7,392	5,122	6,758	8,879	5,168	4,841	30,776	3,381	25,527
	15 Bakirkoy	7,019	5,864	3,564	8,132	8,412	6,126	2,782	23,673	1,842	16,882
	16 Bayrampasa	8,122	10,772	8,214	8,686	19,938	5,299	5,373	19,766	2,794	17,515
	17 Besiktas	2,287	2,047	2,889	1,550	6,665	1,202	6,199	7,131	2,253	2,966
	18 Beyoglu	6,077	3,114	6,147	4,624	10,468	2,072	6,400	8,670	1,397	4,555
	19 Buyukcekmece	8,136	16,701	11,090	6,230	27,009	8,502	6,433	137,514	5,536	98,729
	20 Catalca	2,332	6,988	4,566	1,944	22,725	3,800	2,426	57,341	3,138	42,537
	21 Eminonu	20,702	4,813	6,441	17,864	9,009	2,937	3,145	10,470	1,800	6,545
	22 Esenler	4,908	27,565	5,708	5,143	11,892	6,225	4,120	25,786	2,533	17,830
	23 Eyup	6,555	5,585	30,826	7,303	30,016	3,205	10,283	15,113	2,941	10,012
	24 Fatih	17,938	4,717	6,890	39,143	8,019	3,458	2,723	9,327	829	4,931
	25 Gaziosmanpasa	9,121	11,861	30,097	8,527	97,022	5,772	18,661	39,934	7,723	33,985
	26 Gungoren	2,996	6,223	3,298	3,810	5,803	13,983	2,648	9,799	1,492	9,601
	27 Kagithane	3,262	3,968	10,131	3,089	18,554	2,517	37,677	11,240	3,805	5,443
	28 Kucukcekmece	10,525	25,779	15,200	9,719	39,985	9,806	11,442	192,229	12,855	172,806
	29 Sariyer	1,794	2,421	2,831	1,004	7,571	1,376	3,980	12,632	28,888	6,055
	30 Silivri	6,470	17,682	9,850	4,702	33,815	9,493	5,250	172,658	5,882	476,225
	31 Sisli	5,087	5,355	8,659	4,901	18,336	3,171	17,285	18,109	4,472	12,358
	32 Zeytinburnu	6,466	5,160	4,564	9,779	9,629	6,848	3,191	17,201	2,086	14,313
	33 Gebze	2,190	1,879	2,105	1,160	4,473	1,381	1,935	8,990	2,217	6,812
	Total	163,376	218,746	208,227	173,651	471,609	126,538	184,905	1,010,987	120,940	1,093,381

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	1,059	1,129	1,810	41,311
	2 Beykoz	2,438	1,509	3,484	115,049
	3 Kadikoy	3,988	2,315	10,479	312,078
	4 Kartal	2,438	1,819	20,141	339,430
	5 Maltepe	3,215	2,430	12,720	239,668
	6 Pendik	2,713	2,220	36,349	386,326
	7 Sultanbeyli	907	647	6,207	92,311
	8 Sile	641	614	3,572	87,530
	9 Tuzla	1,690	1,185	81,234	406,674
	10 Umranyye	5,625	3,778	17,568	394,590
	11 Uskudar	4,394	2,728	7,871	243,044
	12 Avcilar	2,544	3,275	1,080	201,558
	13 Bagcilar	8,323	7,190	2,745	409,990
	14 Baahcelievler	5,513	8,743	2,071	290,354
	15 Bakirkoy	2,284	12,033	1,811	213,629
	16 Bayrampasa	5,593	6,362	2,693	230,098
	17 Besiktas	9,025	1,450	1,464	98,772
	18 Beyoglu	13,399	2,824	1,443	136,338
	19 Buyukcekmece	13,422	15,616	5,994	916,030
	20 Catalca	3,610	4,352	3,774	337,480
	21 Eminonu	4,875	6,413	2,166	161,623
	22 Esenler	5,542	5,205	1,884	221,175
	23 Eyup	8,844	4,561	2,108	208,907
	24 Fatih	4,171	9,596	1,064	165,895
	25 Gaziosmanpasa	18,555	9,678	4,490	474,043
	26 Gungoren	3,335	6,879	1,406	128,895
	27 Kagithane	17,438	3,151	1,897	182,399
	28 Kucukcekmece	18,243	17,247	9,020	1,013,724
	29 Sariyer	4,490	1,984	2,087	118,152
	30 Silivri	12,057	14,201	6,758	1,089,189
	31 Sisli	39,927	3,485	3,616	236,602
	32 Zeytinburnu	3,538	17,591	2,605	185,783
	33 Gebze	3,707	2,611	329,978	594,419
	Total	237,543	184,821	593,589	

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
 (2) Service Vehicle Passenger

Zone 1 – 10

Passenger/ day

		Zone Name	Destination Zone									
			1	2	3	4	5	6	7	8	9	10
Origin Zone	1	Adalar	34	25	98	107	92	48	3	81	110	83
	2	Beykoz	48	3,848	504	455	403	375	168	244	345	1,631
	3	Kadikoy	108	789	24,094	2,727	4,562	1,308	500	414	1,495	9,347
	4	Kartal	109	491	2,571	40,748	7,877	12,767	2,575	580	3,800	7,387
	5	Maltepe	90	461	4,544	7,900	21,093	2,870	612	570	2,153	3,818
	6	Pendik	41	296	1,122	12,724	2,815	42,939	3,554	795	14,155	2,645
	7	Sultanbeyli	4	104	452	2,576	608	3,562	5,677	326	2,515	1,386
	8	Sile	91	325	463	670	620	911	360	4,099	398	1,518
	9	Tuzla	107	357	1,432	3,769	2,140	14,139	2,504	355	25,045	3,664
	10	Umranyye	83	1,703	9,195	7,373	3,767	2,707	1,402	1,424	3,655	43,879
	11	Uskudar	48	647	7,798	1,438	1,609	598	165	438	1,326	7,051
	12	Avcilar	6	7	12	6	21	13	4	1	3	33
	13	Bagcilar	36	267	160	141	148	110	33	114	99	326
	14	Baahcelievler	25	150	87	82	92	69	17	85	60	195
	15	Bakirkoy	41	112	106	96	118	112	41	18	27	242
	16	Bayrampasa	46	198	162	145	169	140	47	85	95	341
	17	Besiktas	19	108	93	86	115	105	42	12	48	251
	18	Beyoglu	41	121	116	112	144	140	55	14	37	322
	19	Buyukcekmece	28	48	65	45	84	71	18	8	12	165
	20	Catalca	18	33	52	29	54	46	15	7	8	106
	21	Eminonu	50	120	120	104	140	130	52	17	35	286
	22	Esenler	23	165	87	83	88	58	18	86	84	188
	23	Eyup	30	158	129	120	129	96	41	51	98	287
	24	Fatih	29	39	57	55	75	75	24	7	19	187
	25	Gaziosmanpasa	29	546	299	268	229	137	32	245	257	494
	26	Gungoren	24	97	88	67	73	61	20	53	53	162
	27	Kagithane	23	217	153	148	165	129	50	34	99	370
	28	Kucukcekmece	48	358	244	221	218	167	46	271	198	444
	29	Sariyer	24	159	124	137	154	130	43	58	112	319
	30	Silivri	17	30	68	41	70	50	17	8	12	122
	31	Sisli	111	444	427	400	521	519	193	77	158	1,127
	32	Zeytinburnu	84	183	177	164	234	219	73	53	65	458
	33	Gebze	78	541	1,274	4,075	1,800	7,886	1,349	1,608	20,188	2,836
Total		1,593	13,147	56,373	87,112	50,427	92,687	19,750	12,238	76,764	91,670	

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	50	2	23	15	29	35	11	24	9	7
	2	Beykoz	700	2	246	143	25	165	95	91	11	3
	3	Kadikoy	8,235	1	165	105	41	173	136	117	11	12
	4	Kartal	1,638	2	128	84	22	120	55	44	8	3
	5	Maltepe	1,790	2	125	73	65	130	68	76	22	17
	6	Pendik	680	0	83	45	46	94	24	34	4	7
	7	Sultanbeyli	186	0	13	8	13	24	8	9	2	2
	8	Sile	605	5	144	97	6	109	29	22	19	3
	9	Tuzla	1,372	5	101	70	17	88	58	37	16	2
	10	Umranyye	7,206	8	233	138	128	256	157	165	43	25
	11	Uskudar	18,409	1	127	79	74	155	107	101	13	15
	12	Avcilar	23	7,009	366	301	313	130	9	27	12,081	330
	13	Bagcilar	241	345	38,565	11,036	2,454	2,983	518	1,115	1,144	221
	14	Baahcelievler	131	269	11,038	18,165	4,141	1,334	389	793	789	163
	15	Bakirkoy	191	291	2,410	4,116	5,178	720	142	325	430	27
	16	Bayrampasa	236	104	2,929	1,302	695	7,816	396	874	422	121
	17	Besiktas	174	16	472	317	33	315	4,120	901	45	6
	18	Beyoglu	216	42	970	683	179	740	749	7,332	99	11
	19	Buyukcekmece	130	12,119	1,311	907	452	511	28	92	73,044	2,898
	20	Catalca	85	389	316	233	32	169	16	20	2,978	14,423
	21	Eminonu	209	61	922	695	354	893	195	586	120	11
	22	Esenler	120	150	5,380	1,945	1,250	2,870	384	824	660	166
	23	Eyup	186	64	1,659	840	517	2,363	500	1,325	272	97
	24	Fatih	110	54	1,911	1,770	1,227	2,015	186	962	146	14
	25	Gaziosmanpasa	293	223	3,626	1,663	1,551	5,992	1,342	2,900	1,189	1,498
	26	Gungoren	120	112	2,503	1,753	1,349	1,324	232	513	326	95
	27	Kagithane	261	32	1,121	674	292	989	1,683	1,821	133	27
	28	Kucukcekmece	295	1,856	9,753	6,580	3,989	2,430	509	974	7,709	1,830
	29	Sariyer	183	23	473	289	109	366	658	302	82	41
	30	Silivri	100	344	321	234	34	174	19	24	5,363	4,751
	31	Sisli	749	88	1,724	1,059	224	1,361	2,265	3,829	244	38
	32	Zeytinburnu	319	139	1,915	2,687	2,622	1,624	265	694	345	43
	33	Gebze	998	5	121	79	76	152	94	101	35	20
Total		46,241	23,763	91,194	58,185	27,537	38,620	15,447	27,054	107,814	26,927	

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
 (2) Service Vehicle Passenger Cont’d

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	45	11	21	13	11	14	16	33	17	8
	2 Beykoz	62	187	237	44	623	89	302	338	171	3
	3 Kadikoy	111	158	223	39	393	89	275	272	169	4
	4 Kartal	26	118	168	31	348	67	153	233	147	1
	5 Maltepe	89	91	140	33	252	66	152	186	133	14
	6 Pendik	57	56	88	1	161	48	76	118	90	4
	7 Sultanbeyli	17	7	13	0	18	10	14	22	19	0
	8 Sile	3	120	117	27	325	64	91	313	116	0
	9 Tuzla	11	102	131	38	288	49	126	201	140	0
	10 Umranyye	169	171	258	71	458	122	313	355	243	23
	11 Uskudar	122	92	149	42	243	75	180	188	121	10
	12 Avcilar	41	192	93	116	268	122	60	1,919	25	282
	13 Bagcilar	990	5,410	1,777	2,301	3,664	2,505	1,233	9,751	541	224
	14 Baahcelievler	734	1,964	914	2,068	1,715	1,757	760	6,585	381	161
	15 Bakirkoy	414	1,300	611	1,655	1,622	1,366	420	3,962	215	3
	16 Bayrampasa	960	2,863	2,373	2,420	5,956	1,298	1,094	2,393	427	117
	17 Besiktas	239	361	506	373	1,271	185	1,647	453	626	0
	18 Beyoglu	655	754	1,181	1,129	2,770	438	1,668	878	324	1
	19 Buyukcekmece	99	804	408	232	1,385	363	209	7,937	138	5,159
	20 Catalca	3	249	177	51	1,668	133	70	1,958	109	4,701
	21 Eminonu	3,066	816	671	2,092	1,418	431	415	1,028	237	0
	22 Esenler	879	8,975	1,254	1,641	2,773	3,139	831	4,646	371	175
	23 Eyup	731	1,159	6,528	1,551	7,292	643	2,226	1,435	620	64
	24 Fatih	2,117	1,384	1,319	13,642	2,172	919	584	1,216	152	0
	25 Gaziosmanpasa	1,466	2,763	7,368	2,486	31,363	1,294	4,569	4,465	1,170	573
	26 Gungoren	500	3,149	720	1,141	1,310	4,687	546	1,529	226	97
	27 Kagithane	461	770	2,091	704	4,438	471	16,538	950	1,034	11
	28 Kucukcekmece	1,094	4,684	1,552	1,509	4,535	1,536	1,056	42,500	754	1,743
	29 Sariyer	194	317	653	175	1,161	186	1,099	646	9,231	23
	30 Silivri	3	264	164	65	734	138	94	1,889	100	91,193
	31 Sisli	622	1,460	2,228	1,442	5,057	781	6,012	2,134	1,293	6
	32 Zeytinburnu	894	1,607	1,050	3,035	2,357	2,114	697	2,543	357	28
	33 Gebze	100	100	154	56	231	70	161	225	181	18
	Total	16,974	42,458	35,337	40,223	88,280	25,269	43,687	103,301	19,878	104,646

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	95	78	81	1,329
	2 Beykoz	365	182	500	12,605
	3 Kadikoy	409	207	1,253	57,942
	4 Kartal	281	161	4,047	86,790
	5 Maltepe	432	220	1,785	50,072
	6 Pendik	350	186	7,873	91,211
	7 Sultanbeyli	121	64	1,342	19,122
	8 Sile	77	58	1,566	13,371
	9 Tuzla	129	75	20,194	76,762
	10 Umranyye	910	443	2,809	89,892
	11 Uskudar	552	294	909	43,176
	12 Avcilar	60	179	16	24,068
	13 Bagcilar	1,786	1,995	131	92,364
	14 Baahcelievler	1,134	2,727	77	59,051
	15 Bakirkoy	297	2,665	101	29,374
	16 Bayrampasa	1,402	1,665	158	39,449
	17 Besiktas	2,273	240	93	15,545
	18 Beyoglu	3,530	621	127	26,199
	19 Buyukcekmece	195	448	78	109,491
	20 Catalca	49	77	49	28,323
	21 Eminonu	496	843	111	16,724
	22 Esenler	1,516	1,665	87	42,581
	23 Eyup	2,322	1,032	133	34,698
	24 Fatih	1,044	2,816	72	36,399
	25 Gaziosmanpasa	5,166	2,414	220	88,130
	26 Gungoren	848	2,146	83	26,007
	27 Kagithane	6,144	669	142	42,844
	28 Kucukcekmece	2,171	2,617	214	104,105
	29 Sariyer	1,229	344	163	19,207
	30 Silivri	40	80	52	106,615
	31 Sisli	17,284	901	509	55,287
	32 Zeytinburnu	887	6,774	232	34,938
	33 Gebze	478	240	78,897	124,227
	Total	54,072	35,126	124,104	1,697,898

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
 (3) Car Passenger

Zone 1 – 10

Passenger/ day

		Zone Name	Destination Zone									
			1	2	3	4	5	6	7	8	9	10
Origin Zone	1	Adalar	2,279	346	1,993	967	1,592	636	84	326	575	907
	2	Beykoz	360	35,073	6,738	2,649	3,060	1,635	457	1,555	1,685	8,203
	3	Kadikoy	2,002	6,875	361,522	28,323	55,342	10,242	2,876	4,773	21,037	66,762
	4	Kartal	973	2,726	28,377	195,579	42,027	48,212	6,939	2,608	17,379	26,722
	5	Maltepe	1,581	3,142	55,360	41,995	130,424	13,176	2,259	2,904	12,197	18,172
	6	Pendik	628	1,616	10,286	48,211	13,167	147,701	12,905	2,783	60,302	10,132
	7	Sultanbeyli	92	515	2,924	6,962	2,266	12,929	9,719	482	4,081	4,227
	8	Sile	327	1,751	4,843	2,739	3,000	2,968	518	37,179	1,756	4,732
	9	Tuzla	585	1,655	21,068	17,372	12,218	60,298	4,072	1,720	100,151	12,602
	10	Umranyye	918	8,382	66,858	26,830	18,241	10,280	4,195	4,592	12,629	137,881
	11	Uskudar	909	7,538	76,426	12,148	15,459	4,797	1,112	3,088	10,814	42,674
	12	Avcilar	24	40	224	36	82	30	2	11	23	81
	13	Bagcilar	145	623	1,421	339	576	282	30	147	173	681
	14	Baahcelievler	130	482	1,103	292	434	175	22	187	249	542
	15	Bakirkoy	175	524	1,704	409	701	347	46	181	310	814
	16	Bayrampasa	243	816	1,987	523	905	458	68	222	290	1,078
	17	Besiktas	187	2,741	3,362	851	1,158	339	122	322	939	2,428
	18	Beyoglu	136	599	1,702	327	715	312	56	60	132	982
	19	Buyukcekmece	128	383	1,170	262	441	153	17	218	228	548
	20	Catalca	44	120	939	95	285	97	8	20	53	223
	21	Eminonu	170	540	1,723	335	699	319	58	72	119	896
	22	Esenler	141	583	1,075	322	503	214	28	181	251	605
	23	Eyup	159	816	1,551	467	746	395	43	151	295	943
	24	Fatih	109	241	900	170	436	207	16	24	89	489
	25	Gaziosmanpasa	203	1,415	1,945	706	958	464	49	316	491	1,192
	26	Gungoren	118	366	985	242	398	180	27	131	163	524
	27	Kagitthane	110	1,106	1,716	432	755	329	43	97	267	1,127
	28	Kucukcekmece	436	1,577	3,096	994	1,222	581	105	1,053	892	1,726
	29	Sariyer	184	1,827	2,407	1,003	1,161	502	85	610	1,153	1,811
	30	Silivri	32	88	739	82	212	77	2	18	37	175
	31	Sisli	353	2,227	5,677	1,310	2,472	1,159	179	334	787	3,431
	32	Zeytinburnu	272	634	2,607	551	1,184	569	66	142	246	1,293
	33	Gebze	603	1,878	11,829	13,592	9,259	26,238	2,279	3,086	55,437	8,599
Total			14,756	89,245	686,257	407,115	322,098	346,301	48,487	69,593	305,230	363,202

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	907	22	134	120	174	235	178	118	119	19
	2	Beykoz	7,532	59	531	543	596	734	3,450	617	489	44
	3	Kadikoy	76,604	174	1,320	1,108	1,808	1,934	3,959	1,723	1,103	667
	4	Kartal	12,360	22	230	300	379	438	1,304	282	300	25
	5	Maltepe	15,587	55	508	415	708	845	1,453	614	367	136
	6	Pendik	4,930	10	153	170	245	333	602	175	155	34
	7	Sultanbeyli	1,289	2	17	35	45	43	246	42	38	1
	8	Sile	3,445	36	130	252	253	207	616	71	344	10
	9	Tuzla	10,872	23	142	250	299	238	1,081	106	254	21
	10	Umranyye	43,108	78	616	621	881	1,011	3,079	966	582	118
	11	Uskudar	191,835	119	1,002	863	1,468	1,640	4,032	1,688	753	360
	12	Avcilar	178	26,517	1,259	1,531	4,554	626	288	178	48,975	1,314
	13	Bagcilar	1,275	1,244	57,919	26,863	11,259	6,127	2,985	1,665	6,776	349
	14	Baahcelievler	933	1,490	26,874	64,178	37,294	5,004	2,293	1,696	5,572	697
	15	Bakirkoy	1,494	4,494	11,127	37,241	122,833	4,638	2,366	1,868	10,111	763
	16	Bayrampasa	1,833	626	6,064	4,960	4,665	22,670	3,973	2,577	4,260	308
	17	Besiktas	3,293	159	2,606	2,095	2,178	3,692	79,323	6,896	897	269
	18	Beyoglu	1,677	203	1,437	1,637	1,909	2,415	7,076	46,176	1,124	31
	19	Buyukcekmece	934	48,997	6,870	5,688	10,281	4,310	1,185	988	448,099	21,799
	20	Catalca	620	1,407	441	837	957	389	511	48	22,103	49,602
	21	Eminonu	1,602	340	2,275	2,289	3,935	5,098	2,262	3,345	1,561	30
	22	Esenler	900	843	15,689	7,549	6,250	7,981	2,364	1,688	4,981	645
	23	Eyup	1,436	357	3,239	2,718	2,765	6,829	5,023	4,485	2,470	364
	24	Fatih	837	336	2,850	3,167	6,270	6,788	2,186	3,481	1,518	47
	25	Gaziosmanpasa	1,625	884	7,880	5,145	5,163	15,897	7,065	5,088	6,140	3,243
	26	Gungoren	896	558	6,931	8,949	9,620	5,033	1,812	1,386	2,348	299
	27	Kagitthane	1,725	185	1,844	1,579	1,700	3,077	16,850	5,976	1,274	92
	28	Kucukcekmece	2,285	7,866	32,366	26,733	29,181	11,316	3,674	3,214	39,465	6,108
	29	Sariyer	1,825	237	2,417	1,828	2,044	2,857	8,642	2,089	1,533	704
	30	Silivri	484	1,102	333	681	894	281	429	45	38,346	17,929
	31	Sisli	5,747	443	3,642	3,746	3,305	5,200	32,204	18,664	3,015	235
	32	Zeytinburnu	2,493	668	3,300	6,131	11,504	4,431	2,566	1,725	3,581	105
	33	Gebze	6,405	41	192	266	368	333	1,021	259	298	28
Total			408,966	99,597	202,338	220,488	285,785	132,650	206,098	119,939	658,951	106,396

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
 (3) Car Passenger Cont’d

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	163	127	147	92	183	111	98	422	176	13
	2 Beykoz	524	562	820	319	1,360	372	1,290	1,603	2,144	18
	3 Kadikoy	1,753	1,012	1,573	912	1,886	952	1,912	3,034	2,659	535
	4 Kartal	284	283	411	122	631	223	476	990	1,201	9
	5 Maltepe	694	422	712	306	887	367	782	1,189	1,213	102
	6 Pendik	225	156	246	52	321	144	223	544	581	19
	7 Sultanbeyli	51	37	35	7	51	30	69	133	160	0
	8 Sile	70	214	185	35	352	163	189	1,140	867	2
	9 Tuzla	96	237	261	82	432	142	261	883	1,229	16
	10 Umranyye	916	592	924	470	1,165	505	1,277	1,766	2,126	71
	11 Uskudar	1,598	749	1,305	829	1,378	813	1,785	2,126	1,955	269
	12 Avcilar	338	883	360	391	909	572	168	7,916	321	985
	13 Bagcilar	2,386	15,726	3,361	3,383	7,940	6,943	1,937	32,385	2,630	190
	14 Baahcelievler	2,330	7,575	2,765	3,456	5,183	8,963	1,609	26,788	1,921	519
	15 Bakirkoy	3,930	6,176	2,702	6,431	5,069	9,559	1,672	29,107	2,119	687
	16 Bayrampasa	5,184	7,996	6,917	7,160	15,863	5,035	3,155	11,308	3,029	177
	17 Besiktas	2,249	2,012	4,634	1,953	6,650	1,593	16,552	3,351	8,236	202
	18 Beyoglu	3,486	1,498	4,286	3,778	4,857	1,287	5,795	3,171	2,188	6
	19 Buyukcekmece	1,536	5,103	2,487	1,469	6,263	2,390	1,212	39,649	1,690	37,996
	20 Catalca	44	776	476	96	3,439	378	148	6,390	967	17,903
	21 Eminonu	14,206	2,585	3,541	15,596	4,485	1,899	1,805	4,515	1,797	25
	22 Esenler	2,673	35,082	3,380	3,247	8,089	8,549	1,901	27,269	1,901	466
	23 Eyup	3,607	3,338	25,581	4,774	16,518	2,259	8,168	6,667	4,132	120
	24 Fatih	15,657	2,854	4,410	64,815	4,574	2,717	1,885	4,282	1,278	9
	25 Gaziosmanpasa	4,561	8,158	16,623	5,140	67,863	3,924	8,363	17,885	5,059	687
	26 Gungoren	1,963	8,578	2,299	2,937	3,913	21,550	1,423	6,583	1,407	213
	27 Kagithane	1,877	1,818	8,017	2,279	8,228	1,359	47,372	3,540	5,210	29
	28 Kucukcekmece	4,528	27,310	6,730	4,574	17,894	6,559	3,608	146,071	4,752	4,360
	29 Sariyer	1,786	1,714	3,985	1,130	4,847	1,304	5,223	4,597	99,872	450
	30 Silivri	56	622	236	87	866	306	115	4,644	686	677,663
	31 Sisli	3,850	3,575	8,418	4,511	11,613	2,937	26,037	8,856	10,979	135
	32 Zeytinburnu	3,725	3,510	2,704	7,634	4,713	6,105	1,710	10,104	2,757	53
	33 Gebze	230	257	300	148	405	199	351	1,009	1,034	15
	Total	86,576	151,537	120,831	148,215	218,827	100,209	148,571	419,917	178,276	743,944

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	336	267	594	14,460
	2 Beykoz	2,448	575	1,838	89,883
	3 Kadikoy	5,938	2,545	11,775	686,640
	4 Kartal	1,365	487	13,546	407,210
	5 Maltepe	2,522	1,109	9,217	321,420
	6 Pendik	1,005	471	26,206	344,731
	7 Sultanbeyli	196	56	2,258	49,038
	8 Sile	415	121	3,045	71,975
	9 Tuzla	760	209	55,432	305,067
	10 Umranyye	3,627	1,249	8,524	365,078
	11 Uskudar	5,996	2,353	6,282	406,163
	12 Avcilar	459	700	29	100,004
	13 Bagcilar	3,837	3,408	191	205,196
	14 Baahcelievler	3,865	6,178	238	221,037
	15 Bakirkoy	3,288	11,512	330	284,728
	16 Bayrampasa	5,370	4,483	348	134,551
	17 Besiktas	32,152	2,347	857	196,645
	18 Beyoglu	18,640	1,645	237	119,580
	19 Buyukcekmece	3,032	3,634	275	659,435
	20 Catalca	319	133	49	109,917
	21 Eminonu	3,718	3,666	234	85,740
	22 Esenler	3,796	3,584	248	152,978
	23 Eyup	8,733	2,693	295	122,137
	24 Fatih	4,091	7,446	113	144,292
	25 Gaziosmanpasa	11,885	4,779	410	221,206
	26 Gungoren	3,121	6,121	194	101,268
	27 Kagithane	26,304	1,686	305	148,308
	28 Kucukcekmece	8,958	10,175	990	420,399
	29 Sariyer	11,107	2,616	943	174,493
	30 Silivri	257	97	35	747,656
	31 Sisli	138,487	3,015	991	317,534
	32 Zeytinburnu	3,050	17,679	365	108,177
	33 Gebze	1,058	377	228,801	376,195
	Total	320,135	107,416	375,195	8,213,141

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
 (4) Walking Passenger

Zone 1 – 10

Passenger/ day

	Zone Name	Destination Zone									
		1	2	3	4	5	6	7	8	9	10
Origin Zone	1 Adalar	19,248	0	147	110	165	39	2	0	7	50
	2 Beykoz	0	89,467	49	12	9	0	6	17	0	878
	3 Kadikoy	168	151	560,833	1,731	11,035	174	160	0	23	19,393
	4 Kartal	121	9	1,725	534,877	13,651	21,389	3,867	0	949	6,877
	5 Maltepe	179	6	10,993	13,631	358,245	1,472	314	0	143	3,231
	6 Pendik	41	0	71	21,366	1,427	595,744	6,737	0	16,358	295
	7 Sultanbeyli	1	3	138	3,871	319	6,728	131,234	0	1,401	1,638
	8 Sile	0	23	0	0	0	0	0	35,724	0	25
	9 Tuzla	9	0	34	998	170	16,356	1,399	0	273,022	149
	10 Umranyye	50	954	19,154	6,693	3,125	328	1,610	18	123	586,024
	11 Uskudar	43	644	20,664	182	1,202	19	14	0	1	16,605
	12 Avcilar	0	0	0	0	0	0	0	0	0	0
	13 Bagcilar	12	38	68	0	32	0	0	0	0	35
	14 Baahcelievler	14	18	65	4	18	0	0	0	0	19
	15 Bakirkoy	3	0	0	0	0	0	0	0	0	2
	16 Bayrampasa	12	16	70	0	19	0	0	0	0	39
	17 Besiktas	1	82	77	0	0	0	0	0	0	70
	18 Beyoglu	5	8	117	0	6	0	0	0	0	84
	19 Buyukcekmece	0	0	0	0	0	0	0	0	0	0
	20 Catalca	0	0	0	0	0	0	0	0	0	0
	21 Eminonu	11	8	229	0	18	0	0	0	0	82
	22 Esenler	12	16	34	0	14	0	0	0	0	16
	23 Eyup	4	4	13	0	1	0	0	0	0	14
	24 Fatih	0	0	20	0	0	0	0	0	0	12
	25 Gaziosmanpasa	12	85	68	0	29	0	0	0	0	38
	26 Gungoren	7	7	36	0	8	0	0	0	0	10
	27 Kagithane	0	101	22	0	1	0	0	0	0	45
	28 Kucukcekmece	10	20	35	0	16	0	0	0	0	16
	29 Sariyer	1	121	8	0	4	0	0	0	0	12
	30 Silivri	0	0	0	0	0	0	0	0	0	0
	31 Sisli	5	110	119	0	23	0	0	0	0	177
	32 Zeytinburnu	16	7	56	0	22	0	0	0	0	34
	33 Gebze	8	0	14	349	89	1,750	100	0	10,822	29
	Total	19,993	91,898	614,859	583,824	389,648	643,999	145,443	35,759	302,849	635,899

Zone 11 - 20

	Zone Name	Destination Zone									
		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	31	0	9	10	0	6	1	0	0	0
	2 Beykoz	550	0	3	2	0	7	284	46	0	0
	3 Kadikoy	21,169	0	22	33	9	85	302	250	0	0
	4 Kartal	180	0	0	0	0	0	0	0	0	0
	5 Maltepe	1,266	0	0	6	0	1	9	18	0	0
	6 Pendik	1	0	0	0	0	0	0	0	0	0
	7 Sultanbeyli	8	0	0	0	0	0	0	0	0	0
	8 Sile	0	0	0	0	0	0	0	0	0	0
	9 Tuzla	10	0	0	0	0	0	0	0	0	0
	10 Umranyye	16,681	0	1	6	0	11	175	99	0	0
	11 Uskudar	429,583	0	56	55	6	100	818	528	0	0
	12 Avcilar	0	156,832	216	301	720	15	0	2	33,437	107
	13 Bagcilar	157	269	495,793	27,928	2,315	5,884	339	1,075	656	30
	14 Baahcelievler	149	337	27,945	337,961	10,670	1,955	325	853	489	11
	15 Bakirkoy	1	779	2,286	10,669	171,569	741	66	294	556	2
	16 Bayrampasa	156	50	5,867	1,932	661	196,737	371	1,462	111	2
	17 Besiktas	379	0	239	211	2	212	90,273	2,225	0	0
	18 Beyoglu	392	0	896	726	71	1,198	2,079	161,909	0	0
	19 Buyukcekmece	0	33,412	417	289	393	42	0	2	895,483	1,642
	20 Catalca	0	92	15	2	0	0	0	0	1,620	110,820
	21 Eminonu	428	2	633	607	771	2,252	381	2,594	0	0
	22 Esenler	93	67	15,201	2,836	1,119	9,280	264	887	252	7
	23 Eyup	44	6	1,644	691	145	6,293	512	2,617	15	3
	24 Fatih	46	1	2,223	2,891	1,935	4,629	160	2,235	0	0
	25 Gaziosmanpasa	185	40	4,295	1,096	314	17,108	926	3,411	226	1,225
	26 Gungoren	74	69	7,303	5,334	3,075	3,331	152	566	90	1
	27 Kagithane	151	0	756	454	36	1,080	4,161	4,993	0	0
	28 Kucukcekmece	84	3,269	17,332	11,823	5,020	1,823	128	302	9,241	464
	29 Sariyer	36	0	54	25	0	31	1,268	120	0	0
	30 Silivri	0	22	0	0	0	0	0	0	6,062	1,494
	31 Sisli	601	0	779	557	21	1,013	7,441	12,146	0	0
	32 Zeytinburnu	123	64	2,245	5,152	6,730	3,474	178	916	78	0
	33 Gebze	1	0	0	0	0	0	0	0	0	0
	Total	472,579	195,311	586,230	411,597	205,582	257,308	110,613	199,550	948,316	115,808

Table 2.1.3 Future Person Trip OD Matrix of “Maximum Railway” Case (2023) cont’d
(4) Walking Passenger cont’ed

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	4	5	0	0	2	5	0	4	0	0
	2 Beykoz	50	2	22	2	40	0	251	1	298	0
	3 Kadikoy	327	31	44	103	77	27	143	18	17	0
	4 Kartal	0	0	0	0	0	0	0	0	0	0
	5 Maltepe	30	0	0	1	0	0	3	0	0	0
	6 Pendik	0	0	0	0	0	0	0	0	0	0
	7 Sultanbeyli	0	0	0	0	0	0	0	0	0	0
	8 Sile	0	0	0	0	0	0	0	0	0	0
	9 Tuzla	0	0	0	0	0	0	0	0	0	0
	10 Umranyye	98	3	10	12	15	2	90	0	39	0
	11 Uskudar	499	48	84	137	114	35	357	20	58	0
	12 Avcilar	6	51	0	17	10	56	0	3,265	0	54
	13 Bagcilar	723	15,230	1,779	2,635	4,370	7,310	879	17,334	125	7
	14 Baahcelievler	669	2,878	766	3,159	1,198	5,338	552	11,792	87	4
	15 Bakirkoy	955	1,212	286	2,571	459	3,069	164	5,055	0	2
	16 Bayrampasa	2,380	9,285	6,331	5,023	17,117	3,335	1,217	1,821	94	0
	17 Besiktas	473	156	373	219	708	87	4,043	41	1,124	0
	18 Beyoglu	2,722	719	2,304	2,442	3,090	405	4,765	171	71	0
	19 Buyukcekmece	3	121	6	4	92	40	4	9,061	0	6,179
	20 Catalca	0	0	3	0	1,211	0	0	433	0	1,565
	21 Eminonu	97,551	750	1,343	13,919	1,243	572	420	178	10	0
	22 Esenler	851	199,800	1,794	2,364	5,987	13,370	692	7,210	73	0
	23 Eyup	1,423	1,723	163,171	3,522	19,755	711	5,349	538	214	0
	24 Fatih	13,952	1,944	3,173	237,334	2,494	1,653	425	475	2	0
	25 Gaziosmanpasa	1,334	5,965	19,789	3,000	560,933	1,304	6,027	4,469	470	7
	26 Gungoren	644	13,390	795	1,996	1,346	101,641	388	1,454	33	0
	27 Kagithane	459	611	5,245	571	5,927	276	243,125	149	1,505	0
	28 Kucukcekmece	229	7,244	577	658	4,542	1,432	269	1,092,078	92	82
	29 Sariyer	48	24	194	18	307	7	1,568	27	158,767	0
	30 Silivri	0	0	0	0	1	0	0	59	0	837,183
	31 Sisli	1,226	696	2,198	1,379	3,165	332	17,495	175	1,398	0
	32 Zeytinburnu	2,364	2,964	1,189	9,673	2,080	5,169	445	1,052	28	0
	33 Gebze	0	0	0	0	0	0	0	0	0	0
Total		129,020	264,852	211,476	290,759	636,283	146,176	288,671	1,156,880	164,505	845,083

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	1	4	2	19,852
	2 Beykoz	157	1	0	92,154
	3 Kadikoy	234	47	1	616,607
	4 Kartal	0	0	266	583,911
	5 Maltepe	8	1	46	389,603
	6 Pendik	0	0	1,709	643,749
	7 Sultanbeyli	0	0	66	145,407
	8 Sile	0	0	0	35,772
	9 Tuzla	0	0	10,804	302,951
	10 Umranyye	160	17	2	635,500
	11 Uskudar	732	85	0	472,689
	12 Avcilar	0	52	0	195,141
	13 Bagcilar	873	2,321	0	588,217
	14 Baahcelievler	629	5,185	0	413,090
	15 Bakirkoy	141	6,776	0	207,658
	16 Bayrampasa	1,130	3,517	0	258,755
	17 Besiktas	7,422	90	0	108,507
	18 Beyoglu	11,783	740	0	196,703
	19 Buyukcekmece	3	14	0	947,207
	20 Catalca	0	0	0	115,761
	21 Eminonu	1,049	2,305	0	127,356
	22 Esenler	721	3,020	0	265,980
	23 Eyup	2,374	1,170	0	211,956
	24 Fatih	782	9,459	0	285,845
	25 Gaziosmanpasa	3,326	2,111	0	637,793
	26 Gungoren	400	5,218	0	147,368
	27 Kagithane	17,651	353	0	287,672
	28 Kucukcekmece	264	1,091	0	1,158,141
	29 Sariyer	1,363	6	0	164,009
	30 Silivri	0	0	0	844,821
	31 Sisli	324,447	448	0	375,951
	32 Zeytinburnu	468	167,933	0	212,460
	33 Gebze	0	0	967,300	980,462
Total		376,118	211,964	980,196	12,669,048

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023)

(1) Public Transport Passenger

Zone 1 – 10

Passenger/ day

		Zone Name	Destination Zone									
			1	2	3	4	5	6	7	8	9	10
Origin Zone	1	Adalar	774	51	330	171	168	112	40	93	120	173
	2	Beykoz	778	13,245	9,066	5,021	3,779	2,992	1,466	2,569	4,169	9,741
	3	Kadikoy	963	3,318	66,412	13,802	17,680	5,985	2,307	2,997	10,000	24,478
	4	Kartal	1,397	3,239	22,051	86,361	27,808	30,180	9,410	5,100	21,885	23,084
	5	Maltepe	1,026	2,337	29,731	27,852	41,616	9,560	2,281	2,907	10,850	13,791
	6	Pendik	1,428	3,270	17,108	59,075	17,643	92,947	14,404	6,247	68,464	16,412
	7	Sultanbeyli	422	1,374	6,046	12,384	3,827	12,052	11,305	2,396	12,639	10,022
	8	Sile	373	1,022	3,119	2,676	1,611	1,916	1,018	16,947	2,476	3,779
	9	Tuzla	625	1,570	7,846	12,115	5,523	20,501	3,765	3,049	46,936	6,595
	10	Umranyye	1,728	8,557	50,359	30,574	15,867	13,316	9,089	8,596	21,531	81,885
	11	Uskudar	881	5,396	39,585	9,896	9,197	4,641	1,964	3,250	8,622	26,516
	12	Avcilar	52	487	957	764	416	384	92	560	1,230	793
	13	Bagcilar	115	1,404	2,501	1,894	1,057	909	239	1,072	2,924	2,130
	14	Baahcelievler	60	629	1,282	889	508	427	120	559	1,351	991
	15	Bakirkoy	31	441	1,259	544	465	248	100	328	549	722
	16	Bayrampasa	69	818	1,826	1,078	679	504	149	557	1,500	1,309
	17	Besiktas	57	1,042	3,008	899	863	378	174	293	804	1,804
	18	Beyoglu	96	1,137	3,538	1,269	1,108	547	253	504	1,269	2,196
	19	Buyukcekmece	186	2,021	3,769	3,312	1,707	1,654	400	2,587	5,540	3,296
	20	Catalca	158	979	1,997	1,660	938	932	285	1,517	2,517	1,709
	21	Eminonu	140	1,489	4,928	1,746	1,719	875	396	753	1,285	2,876
	22	Esenler	62	805	1,533	1,088	610	503	129	611	1,688	1,256
	23	Eyup	96	1,240	2,460	1,527	920	714	222	726	2,151	2,003
	24	Fatih	109	951	2,782	1,295	948	548	210	587	1,644	1,765
	25	Gaziosmanpasa	204	2,772	4,742	3,813	1,977	1,822	475	2,124	6,015	4,366
	26	Gungoren	34	348	837	538	322	250	68	309	812	600
	27	Kagithane	124	2,135	3,954	1,973	1,318	900	326	749	2,495	3,130
	28	Kucukcekmece	120	2,018	3,760	3,386	1,674	1,631	324	2,422	5,897	3,244
	29	Sariyer	104	1,317	2,467	1,644	1,050	731	238	748	2,318	2,013
	30	Silivri	207	1,906	3,704	3,421	1,765	1,783	427	3,151	5,742	3,197
	31	Sisli	99	1,705	4,726	1,726	1,465	773	318	630	1,746	2,909
	32	Zeytinburnu	54	540	1,419	800	524	377	109	412	1,126	959
	33	Gebze	459	2,161	8,568	13,916	5,908	12,717	2,003	4,226	44,073	6,982
Total			13,031	71,724	317,670	309,109	172,660	223,809	64,106	79,576	302,368	266,726

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	159	24	47	34	39	26	17	12	88	63
	2	Beykoz	7,650	589	2,082	1,281	1,234	1,250	1,373	822	2,463	1,376
	3	Kadikoy	26,759	606	1,693	1,091	1,658	1,282	1,637	1,299	2,715	2,081
	4	Kartal	9,777	657	1,839	1,159	1,422	1,194	1,104	945	2,916	2,266
	5	Maltepe	9,979	488	1,356	840	1,151	938	995	852	2,258	1,828
	6	Pendik	8,356	706	1,994	1,255	1,602	1,356	1,115	1,090	3,339	2,939
	7	Sultanbeyli	3,102	266	795	522	574	509	439	409	1,211	937
	8	Sile	2,056	245	652	469	455	389	194	196	1,035	759
	9	Tuzla	4,100	368	1,006	659	791	645	520	451	1,597	1,159
	10	Umranyye	30,174	1,204	3,841	2,344	2,893	2,543	2,854	2,396	5,691	4,246
	11	Uskudar	56,331	847	2,606	1,857	2,294	1,971	3,012	2,239	3,371	2,412
	12	Avcilar	642	17,114	5,104	4,416	6,647	2,430	739	967	38,872	4,601
	13	Bagcilar	1,698	4,253	53,496	26,264	17,010	12,578	2,160	2,993	14,675	6,024
	14	Baahcelievler	939	3,280	21,522	31,742	18,122	5,031	1,065	1,588	8,202	3,105
	15	Bakirkoy	885	2,013	4,701	6,963	18,935	2,727	712	968	4,765	1,545
	16	Bayrampasa	1,421	1,626	10,505	5,623	6,425	15,453	1,739	2,724	6,219	2,788
	17	Besiktas	2,986	519	1,685	1,197	1,615	1,537	8,165	2,917	1,758	885
	18	Beyoglu	3,214	1,309	5,425	4,021	4,675	5,430	5,412	19,044	4,261	1,864
	19	Buyukcekmece	2,405	31,844	16,438	11,797	15,997	8,947	2,778	3,376	149,498	24,031
	20	Catalca	1,298	4,781	7,731	5,185	5,443	4,607	1,465	1,758	23,334	31,833
	21	Eminonu	4,257	1,780	7,222	4,707	8,810	9,199	4,883	8,682	6,373	2,850
	22	Esenler	1,040	1,836	17,547	7,799	7,208	10,929	1,414	2,158	7,520	3,171
	23	Eyup	1,919	1,706	7,687	4,865	5,390	8,777	2,716	4,112	6,380	3,063
	24	Fatih	2,281	2,265	10,544	8,355	11,149	11,756	3,432	7,145	7,042	2,976
	25	Gaziosmanpasa	3,243	3,918	21,924	10,310	11,184	20,682	4,503	6,122	17,644	11,721
	26	Gungoren	627	1,216	8,411	7,137	7,501	4,844	720	1,129	3,604	1,643
	27	Kagithane	3,663	1,663	6,712	4,728	4,870	5,998	6,534	6,343	5,808	2,611
	28	Kucukcekmece	2,322	11,581	24,954	17,413	21,273	8,588	2,695	3,416	31,717	11,812
	29	Sariyer	1,574	952	3,147	1,889	2,204	2,200	2,573	1,542	3,894	2,391
	30	Silivri	2,334	8,384	12,460	8,656	9,493	7,632	2,653	3,183	49,650	26,168
	31	Sisli	4,502	1,263	4,592	3,364	4,019	4,349	7,648	7,523	4,251	2,012
	32	Zeytinburnu	1,106	1,707	6,856	8,320	11,842	6,242	1,415	2,538	4,709	1,911
	33	Gebze	4,382	626	1,620	1,017	1,704	1,253	1,099	1,123	3,324	3,454
Total			207,181	111,636	278,194	197,279	215,629	173,292	79,780	102,062	430,184	172,525

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (1) Public Transport Passenger cont’d

Zone 21 – 3

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	17	26	22	4	72	13	26	135	30	96
	2 Beykoz	687	1,064	1,247	595	3,051	535	2,095	4,264	1,828	2,023
	3 Kadikoy	1,141	918	1,228	825	2,072	557	1,840	3,238	1,522	2,804
	4 Kartal	896	958	1,071	676	2,341	522	1,519	4,034	1,428	3,013
	5 Maltepe	793	715	846	600	1,639	416	1,285	2,781	1,163	2,401
	6 Pendik	1,103	1,012	1,162	813	2,337	588	1,602	4,275	1,486	3,759
	7 Sultanbeyli	393	401	459	279	1,016	222	638	1,761	574	1,201
	8 Sile	209	338	347	175	868	180	326	1,602	380	1,082
	9 Tuzla	426	536	550	368	1,314	283	692	2,295	726	1,592
	10 Umranyye	2,116	1,982	2,465	1,602	4,892	1,104	3,904	7,596	3,157	5,558
	11 Uskudar	1,807	1,395	1,889	1,409	3,230	911	3,044	4,730	2,031	3,256
	12 Avcilar	1,006	2,401	1,800	1,508	3,794	1,433	1,311	17,642	1,263	6,965
	13 Bagcilar	3,196	15,536	6,728	5,267	17,872	8,925	4,403	37,133	3,269	8,485
	14 Baahcelievler	1,677	4,815	2,933	3,053	5,811	6,912	1,854	21,044	1,419	4,516
	15 Bakirkoy	1,013	2,093	1,548	1,970	2,845	2,759	966	8,451	818	2,459
	16 Bayrampasa	2,567	7,335	6,654	5,217	18,224	4,202	3,154	11,421	1,966	4,212
	17 Besiktas	1,282	1,071	1,836	1,554	2,823	619	3,890	3,097	2,306	1,447
	18 Beyoglu	4,097	3,591	6,875	6,056	8,835	2,241	6,746	8,443	2,792	3,052
	19 Buyukcekmece	3,610	8,596	6,571	4,883	14,493	4,234	5,006	53,308	5,010	40,999
	20 Catalca	1,680	4,152	3,662	2,575	11,610	1,998	2,520	22,567	3,221	22,904
	21 Eminonu	12,409	5,492	7,827	17,701	10,366	3,250	4,656	10,058	3,031	4,732
	22 Esenler	2,272	14,325	5,131	4,083	13,119	6,211	2,787	15,598	1,902	4,548
	23 Eyup	2,738	4,976	15,006	5,199	23,800	2,811	7,396	12,316	3,522	4,651
	24 Fatih	7,521	7,396	10,049	30,684	13,791	5,038	5,246	14,500	2,670	4,653
	25 Gaziosmanpasa	5,079	12,987	19,557	7,943	75,515	5,760	10,635	35,282	6,597	13,821
	26 Gungoren	1,164	4,815	2,302	2,330	4,294	7,660	1,208	6,957	782	2,346
	27 Kagithane	2,956	4,068	9,136	4,517	13,389	2,476	22,546	11,665	5,941	4,234
	28 Kucukcekmece	3,916	11,043	5,882	4,840	11,839	4,903	4,813	103,614	4,029	16,039
	29 Sariyer	1,154	1,749	2,553	1,305	4,919	869	4,381	6,282	16,645	3,611
	30 Silivri	3,285	6,532	5,873	4,272	13,864	3,393	4,509	35,210	5,154	249,360
	31 Sisli	2,910	2,913	5,697	3,920	7,427	1,816	9,910	7,601	4,611	3,249
	32 Zeytinburnu	2,767	3,703	4,034	6,067	6,095	4,801	2,264	9,357	1,330	2,837
	33 Gebze	1,144	906	1,017	844	1,535	548	1,417	2,901	1,328	4,241
	Total	79,031	139,840	143,957	133,134	309,092	88,190	128,589	491,158	93,931	440,146

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	54	26	363	3,425
	2 Beykoz	3,278	1,100	8,603	103,316
	3 Kadikoy	4,161	1,436	11,953	222,458
	4 Kartal	3,043	1,320	29,340	303,955
	5 Maltepe	2,718	1,086	14,232	193,311
	6 Pendik	3,378	1,621	61,348	405,234
	7 Sultanbeyli	1,262	578	12,047	102,062
	8 Sile	627	385	6,951	54,857
	9 Tuzla	1,416	668	57,601	188,288
	10 Umranyye	7,585	2,812	26,259	370,720
	11 Uskudar	7,130	2,201	10,716	230,637
	12 Avcilar	2,296	2,369	1,109	132,164
	13 Bagcilar	6,948	8,595	2,410	284,163
	14 Baahcelievler	3,366	5,789	1,220	165,821
	15 Bakirkoy	2,066	3,707	931	80,527
	16 Bayrampasa	5,693	5,805	1,396	140,858
	17 Besiktas	9,485	1,237	1,159	64,392
	18 Beyoglu	15,900	4,176	1,671	141,047
	19 Buyukcekmece	8,403	7,946	4,874	459,516
	20 Catalca	4,125	3,638	2,928	187,707
	21 Eminonu	11,322	7,625	2,562	176,001
	22 Esenler	4,752	5,611	1,388	150,634
	23 Eyup	9,915	4,782	1,835	157,621
	24 Fatih	10,541	10,993	1,818	202,684
	25 Gaziosmanpasa	15,264	10,046	4,542	362,589
	26 Gungoren	2,341	4,382	718	82,249
	27 Kagithane	21,992	4,459	2,204	175,617
	28 Kucukcekmece	8,617	8,521	4,539	352,842
	29 Sariyer	7,658	1,792	2,174	90,088
	30 Silivri	7,860	6,776	5,473	507,477
	31 Sisli	30,884	3,288	2,140	145,986
	32 Zeytinburnu	4,402	12,646	1,058	114,327
	33 Gebze	3,312	1,654	143,657	285,119
	Total	231,794	139,070	431,219	6,637,692

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (2) Service Vehicle Passenger

Zone 1 – 10

Passenger/ day

		Zone Name	Destination Zone									
			1	2	3	4	5	6	7	8	9	10
Origin Zone	1	Adalar	26	116	1,166	763	797	777	306	73	414	1,259
	2	Beykoz	48	2,547	3,321	2,396	1,693	1,671	647	799	2,781	5,013
	3	Kadikoy	104	1,352	34,602	8,904	11,041	4,735	1,706	1,179	7,476	18,322
	4	Kartal	101	1,230	9,423	41,986	15,048	17,681	4,441	1,709	15,335	13,496
	5	Maltepe	80	1,034	14,102	16,396	20,757	6,368	1,421	1,172	8,022	9,782
	6	Pendik	99	1,315	7,462	32,354	9,336	46,878	5,948	2,344	43,813	9,910
	7	Sultanbeyli	29	501	2,671	6,325	2,045	6,503	4,680	848	9,246	5,263
	8	Sile	37	248	1,018	1,014	606	896	384	3,360	1,307	1,532
	9	Tuzla	54	583	3,266	6,005	2,768	10,688	1,730	819	25,692	4,185
	10	Umranyye	120	3,111	23,870	17,133	9,008	8,913	4,248	3,152	17,550	46,008
	11	Uskudar	99	2,079	23,529	7,345	6,857	4,380	1,649	1,279	7,321	22,192
	12	Avcilar	0	163	286	367	159	173	13	273	804	286
	13	Bagcilar	0	545	845	1,018	458	464	54	585	2,099	887
	14	Baahcelievler	0	230	419	464	223	214	29	306	974	389
	15	Bakirkoy	1	95	275	171	134	75	21	106	268	190
	16	Bayrampasa	0	278	557	536	273	243	31	288	1,026	486
	17	Besiktas	0	159	551	241	196	87	16	88	384	399
	18	Beyoglu	2	217	689	409	285	170	30	163	684	474
	19	Buyukcekmece	3	856	1,384	1,888	815	933	104	1,520	4,131	1,460
	20	Catalca	3	300	543	766	332	372	40	685	1,657	553
	21	Eminonu	4	240	792	380	344	195	63	169	433	485
	22	Esenler	1	303	499	593	268	265	32	336	1,204	506
	23	Eyup	0	399	694	741	348	329	29	368	1,473	681
	24	Fatih	0	189	628	501	259	193	16	233	1,001	445
	25	Gaziosmanpasa	1	1,173	1,734	2,196	960	993	97	1,221	4,550	1,931
	26	Gungoren	0	125	259	281	132	124	13	168	570	230
	27	Kagithane	0	565	1,012	863	442	377	33	362	1,628	931
	28	Kucukcekmece	6	947	1,514	2,009	864	980	112	1,496	4,323	1,616
	29	Sariyer	0	351	591	643	291	277	20	321	1,289	632
	30	Silivri	8	777	1,322	1,915	815	935	108	1,758	4,165	1,401
	31	Sisli	3	397	1,108	626	437	261	41	250	1,010	784
	32	Zeytinburnu	1	180	398	388	195	174	23	205	743	325
	33	Gebze	40	976	3,137	6,496	2,465	5,861	883	2,153	25,249	3,919
		Total	870	23,581	143,667	164,113	90,651	123,185	28,968	29,788	198,622	155,972

Zone 11 - 20

		Zone Name	Destination Zone									
			11	12	13	14	15	16	17	18	19	20
Origin Zone	1	Adalar	685	46	149	115	26	42	11	4	167	24
	2	Beykoz	2,274	233	930	592	449	454	415	280	1,213	728
	3	Kadikoy	13,976	293	973	669	665	606	567	518	1,508	1,115
	4	Kartal	4,161	301	997	655	642	583	410	428	1,634	1,311
	5	Maltepe	4,820	241	810	516	564	498	401	411	1,352	1,106
	6	Pendik	3,573	362	1,146	749	842	718	511	567	2,060	1,874
	7	Sultanbeyli	1,281	130	436	286	291	260	189	202	707	585
	8	Sile	588	78	266	178	156	127	53	55	422	340
	9	Tuzla	1,708	163	515	352	342	290	191	188	861	633
	10	Umranyye	12,761	601	2,125	1,334	1,396	1,273	1,223	1,119	3,300	2,552
	11	Uskudar	27,108	430	1,562	1,160	961	958	1,114	945	1,934	1,328
	12	Avcilar	133	7,172	3,287	2,888	2,238	895	256	334	20,779	1,957
	13	Bagcilar	415	2,225	29,404	16,944	6,680	5,342	926	1,228	8,903	3,200
	14	Baahcelievler	217	1,692	14,523	21,475	6,712	2,053	429	604	4,719	1,431
	15	Bakirkoy	154	1,458	4,960	9,449	5,268	1,058	215	248	2,994	443
	16	Bayrampasa	316	934	7,981	4,630	2,238	6,177	670	964	3,903	1,269
	17	Besiktas	424	856	3,944	3,263	750	1,344	3,892	1,084	2,755	343
	18	Beyoglu	461	819	4,486	3,765	1,417	2,248	1,682	5,100	2,732	645
	19	Buyukcekmece	654	18,714	13,931	9,850	6,571	4,247	1,254	1,482	87,312	11,516
	20	Catalca	248	2,281	5,084	3,334	1,643	1,594	474	538	11,743	10,956
	21	Eminonu	561	409	1,991	1,597	1,262	1,481	699	1,294	1,539	502
	22	Esenler	267	1,127	11,718	6,257	2,932	4,954	613	899	5,052	1,713
	23	Eyup	362	1,268	7,192	4,852	2,158	4,076	1,185	1,482	5,094	1,561
	24	Fatih	313	1,339	8,149	7,586	3,508	4,796	1,128	2,347	4,391	1,138
	25	Gaziosmanpasa	882	2,487	15,496	8,118	4,944	9,198	2,201	2,629	11,903	6,289
	26	Gungoren	143	701	5,914	6,248	2,828	2,077	295	438	2,289	794
	27	Kagithane	648	1,367	7,108	5,502	2,089	3,326	3,033	2,426	5,109	1,389
	28	Kucukcekmece	762	5,980	17,583	12,576	9,097	4,218	1,298	1,643	19,487	7,042
	29	Sariyer	279	1,167	4,876	3,252	1,058	1,587	1,373	666	4,617	1,192
	30	Silivri	645	4,589	9,798	6,428	3,683	3,381	1,124	1,323	25,976	12,296
	31	Sisli	836	1,349	6,685	5,508	1,720	2,813	3,622	3,008	4,465	913
	32	Zeytinburnu	226	1,012	5,268	7,557	4,335	2,846	549	944	3,022	868
	33	Gebze	1,574	304	866	557	826	638	462	505	1,847	1,909
		Total	83,455	62,128	200,153	158,242	80,291	76,158	32,465	35,903	255,789	80,962

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (2) Service Vehicle Passenger Cont’d

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	4	64	23	7	216	31	27	500	36	85
	2 Beykoz	260	424	335	177	1,161	224	758	1,982	523	1,013
	3 Kadikoy	459	477	450	315	1,017	290	829	1,939	602	1,589
	4 Kartal	427	473	419	300	1,037	277	691	2,115	589	1,777
	5 Maltepe	382	391	368	271	796	231	629	1,588	522	1,494
	6 Pendik	566	552	515	417	1,056	343	839	2,306	733	2,422
	7 Sultanbeyli	198	210	179	150	411	127	316	877	260	757
	8 Sile	68	116	82	46	274	63	99	677	115	473
	9 Tuzla	189	250	200	140	563	143	299	1,137	285	897
	10 Umranyye	988	1,001	966	738	2,071	616	1,893	4,047	1,381	3,345
	11 Uskudar	749	746	726	563	1,662	497	1,419	3,038	825	1,847
	12 Avcilar	390	1,210	519	427	2,005	728	561	10,607	454	2,676
	13 Bagcilar	1,446	7,422	2,450	1,838	7,739	4,885	2,117	24,001	1,324	4,275
	14 Baahcelievler	726	2,718	1,048	1,023	3,086	3,901	895	15,085	575	2,014
	15 Bakirkoy	295	1,620	520	621	2,328	1,936	442	9,642	335	902
	16 Bayrampasa	1,042	4,169	2,388	1,720	9,869	2,515	1,501	9,378	816	1,891
	17 Besiktas	391	1,903	1,174	821	5,966	970	3,493	8,940	2,399	997
	18 Beyoglu	1,171	2,374	2,078	1,811	5,296	1,402	2,706	7,742	998	1,233
	19 Buyukcekmece	1,677	5,878	2,468	1,819	10,520	2,797	2,732	46,006	2,328	19,061
	20 Catalca	614	2,196	925	634	5,615	1,047	1,057	16,125	973	8,833
	21 Eminonu	2,008	1,165	1,050	2,331	2,123	736	775	3,177	442	899
	22 Esenler	1,044	6,797	1,986	1,503	6,902	3,804	1,393	12,703	830	2,360
	23 Eyup	1,142	3,586	4,920	1,798	15,266	1,988	3,817	13,271	1,736	2,423
	24 Fatih	2,756	4,546	3,283	9,710	7,752	3,084	2,252	12,274	974	1,953
	25 Gaziosmanpasa	2,546	7,544	6,639	3,089	35,366	3,742	5,951	26,984	3,149	7,107
	26 Gungoren	504	2,609	884	815	2,365	4,294	595	5,460	344	1,139
	27 Kagithane	1,230	3,513	3,625	1,759	11,554	2,006	11,869	14,022	2,976	2,359
	28 Kucukcekmece	1,934	6,391	2,429	1,994	6,598	2,904	2,650	52,345	1,962	9,107
	29 Sariyer	482	2,139	1,287	647	7,471	1,006	2,768	12,705	6,845	2,330
	30 Silivri	1,458	4,314	1,997	1,507	8,729	2,078	2,316	29,022	2,235	90,961
	31 Sisli	1,053	3,361	2,778	1,756	9,248	1,843	6,719	13,280	2,796	1,925
	32 Zeytinburnu	1,172	2,373	1,498	2,188	3,824	3,074	1,116	7,631	571	1,337
	33 Gebze	504	453	476	393	709	292	696	1,478	682	2,434
	Total	29,875	82,985	50,685	43,328	180,595	53,874	66,220	372,084	41,615	183,915

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	31	30	2,413	10,433
	2 Beykoz	1,403	516	4,168	41,428
	3 Kadikoy	1,935	742	8,472	129,427
	4 Kartal	1,576	753	15,219	157,225
	5 Maltepe	1,443	643	8,253	106,864
	6 Pendik	1,946	998	25,432	209,986
	7 Sultanbeyli	720	353	6,151	53,187
	8 Sile	244	160	2,819	17,901
	9 Tuzla	672	352	21,721	87,881
	10 Umranyye	4,196	1,626	15,852	199,517
	11 Uskudar	3,521	1,189	9,283	140,295
	12 Avcilar	1,075	1,132	452	64,699
	13 Bagcilar	3,822	4,555	1,092	149,188
	14 Baahcelievler	1,804	2,872	544	93,394
	15 Bakirkoy	775	1,982	289	49,270
	16 Bayrampasa	2,835	3,031	573	74,528
	17 Besiktas	5,382	1,108	331	54,651
	18 Beyoglu	6,018	2,082	480	61,869
	19 Buyukcekmece	4,856	4,625	2,404	275,796
	20 Catalca	1,849	1,689	1,062	85,765
	21 Eminonu	2,060	1,523	518	33,247
	22 Esenler	2,597	3,171	624	85,253
	23 Eyup	5,116	2,875	757	92,987
	24 Fatih	4,377	5,743	597	97,461
	25 Gaziosmanpasa	9,180	6,242	2,250	198,792
	26 Gungoren	1,247	2,316	318	46,519
	27 Kagithane	11,726	2,901	808	108,558
	28 Kucukcekmece	5,214	4,925	2,406	194,412
	29 Sariyer	4,286	1,334	732	68,514
	30 Silivri	4,272	3,753	2,567	237,656
	31 Sisli	15,843	2,380	727	99,545
	32 Zeytinburnu	2,219	5,606	417	62,285
	33 Gebze	1,663	898	46,246	117,591
	Total	115,903	74,105	185,977	3,506,124

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (3) Car Passenger

Zone 1 – 10

		Destination Zone										Passenger/ day
Zone Name		1	2	3	4	5	6	7	8	9	10	
Origin Zone	1 Adalar	3,074	1,939	6,660	5,488	3,933	3,429	1,074	3,006	6,048	5,327	
	2 Beykoz	829	13,889	10,951	6,396	4,888	4,023	1,864	3,549	5,883	13,001	
	3 Kadikoy	3,878	16,116	260,492	66,075	80,760	30,138	11,645	10,994	52,383	120,271	
	4 Kartal	2,244	7,153	35,389	155,837	54,647	59,248	14,895	6,920	45,393	39,092	
	5 Maltepe	2,335	7,320	71,644	72,694	98,106	26,690	6,408	5,418	29,037	36,683	
	6 Pendik	2,804	8,141	32,552	105,382	33,056	152,032	34,658	9,498	146,639	38,181	
	7 Sultanbeyli	364	1,517	5,391	11,446	3,711	10,851	8,939	1,624	13,925	9,171	
	8 Sile	402	1,227	2,022	1,786	1,091	1,371	657	12,854	1,779	2,795	
	9 Tuzla	1,137	3,377	12,186	21,672	9,993	34,099	5,911	3,572	69,094	12,782	
	10 Umranyye	2,698	17,463	102,221	56,261	33,581	26,974	13,942	11,413	48,424	147,069	
	11 Uskudar	2,327	16,263	112,746	33,084	29,845	16,583	6,256	7,549	32,065	78,682	
	12 Avcilar	101	688	1,305	1,049	651	581	186	521	1,454	1,187	
	13 Bagcilar	150	1,783	2,995	2,235	1,436	1,211	375	894	2,988	2,783	
	14 Baahcelievler	142	1,386	2,667	1,976	1,239	1,068	302	861	2,788	2,308	
	15 Bakirkoy	150	1,403	3,125	1,917	1,425	1,051	355	874	2,313	2,370	
	16 Bayrampasa	97	1,277	2,631	1,632	1,145	848	277	605	1,999	2,075	
	17 Besiktas	256	5,183	9,764	4,460	3,442	2,210	796	1,274	5,087	7,709	
	18 Beyoglu	115	1,694	5,029	2,073	1,911	1,066	402	557	1,902	3,321	
	19 Buyukcekmece	912	6,172	10,578	9,954	5,492	5,503	1,520	5,742	15,552	10,465	
	20 Catalca	210	892	1,661	1,312	881	744	240	800	1,716	1,456	
	21 Eminonu	106	1,816	5,665	2,171	2,326	1,165	509	631	1,501	3,489	
	22 Esenler	138	1,509	2,563	2,034	1,225	1,094	306	889	2,927	2,410	
	23 Eyup	134	2,031	3,401	2,435	1,543	1,247	338	903	3,385	3,074	
	24 Fatih	124	1,419	3,797	1,998	1,573	1,091	358	595	2,175	2,710	
	25 Gaziosmanpasa	292	3,813	5,801	4,586	2,814	2,376	650	1,761	6,548	5,650	
	26 Gungoren	67	649	1,431	979	645	512	152	390	1,329	1,142	
	27 Kagithane	160	3,155	5,196	2,817	2,014	1,410	435	824	3,471	4,380	
	28 Kucukcekmece	856	7,105	11,963	10,839	6,037	5,814	1,581	5,675	16,789	11,735	
	29 Sariyer	297	4,826	6,472	4,846	2,911	2,501	744	1,914	6,740	6,770	
	30 Silivri	1,006	4,402	8,064	7,670	4,334	4,492	1,316	5,346	11,719	7,806	
	31 Sisli	245	4,585	10,403	4,792	3,853	2,393	825	1,391	5,400	7,638	
	32 Zeytinburnu	66	784	1,878	1,152	829	602	195	400	1,393	1,391	
	33 Gebze	3,433	9,252	31,481	52,811	25,221	65,023	12,929	13,892	160,893	35,226	
Total		31,149	160,229	790,124	661,859	426,558	469,440	131,040	123,136	710,739	630,149	

Zone 11 - 20

		Destination Zone									
Zone Name		11	12	13	14	15	16	17	18	19	20
Origin Zone	1 Adalar	3,843	412	1,252	841	910	840	522	587	2,045	1,734
	2 Beykoz	9,199	627	2,727	1,590	1,548	1,747	1,913	1,145	2,990	1,317
	3 Kadikoy	100,580	2,208	7,927	5,210	5,933	5,797	6,000	5,483	10,707	6,398
	4 Kartal	17,791	991	3,526	2,345	2,278	2,301	1,716	1,620	4,756	2,444
	5 Maltepe	26,047	1,013	3,675	2,403	2,466	2,479	2,116	1,991	4,952	2,701
	6 Pendik	18,349	1,246	4,403	2,927	2,716	2,773	1,957	1,911	5,882	3,234
	7 Sultanbeyli	3,039	212	798	516	486	500	348	332	1,002	502
	8 Sile	1,348	142	515	343	336	312	145	127	715	352
	9 Tuzla	7,248	542	1,805	1,235	1,226	1,163	802	734	2,506	1,235
	10 Umranyye	59,554	1,892	7,440	4,641	4,740	4,917	4,870	4,241	9,209	4,829
	11 Uskudar	142,267	1,998	7,708	5,395	5,980	6,182	7,932	6,943	8,914	4,965
	12 Avcilar	941	21,683	8,716	7,224	10,642	3,748	1,056	1,500	58,533	6,062
	13 Bagcilar	2,184	4,756	62,581	33,350	21,852	17,466	2,782	3,999	18,985	6,531
	14 Baahcelievler	2,068	6,212	51,028	65,155	47,477	13,622	2,567	4,039	18,005	5,579
	15 Bakirkoy	2,398	7,304	21,487	29,685	59,348	9,842	2,404	3,759	18,173	4,895
	16 Bayrampasa	2,086	1,869	15,466	7,356	8,489	19,758	2,490	4,026	8,440	3,137
	17 Besiktas	10,419	1,980	8,330	5,469	7,037	8,210	33,141	13,271	8,291	4,037
	18 Beyoglu	4,661	1,341	6,468	4,487	5,890	7,353	7,826	30,189	5,201	2,005
	19 Buyukcekmece	7,123	95,443	69,390	46,129	53,196	32,685	9,138	11,912	490,290	79,268
	20 Catalca	1,078	3,873	7,677	4,381	4,525	4,081	1,181	1,483	23,546	23,669
	21 Eminonu	4,740	1,431	6,522	4,404	8,048	9,027	4,301	7,973	5,783	1,998
	22 Esenler	1,916	3,810	30,562	14,522	12,951	17,247	2,585	3,856	17,693	6,221
	23 Eyup	2,679	2,020	11,167	6,318	7,540	11,994	4,106	5,857	9,341	4,260
	24 Fatih	3,221	2,160	11,849	9,019	13,238	15,042	4,145	9,425	7,942	2,836
	25 Gaziosmanpasa	4,195	4,610	29,507	13,706	14,754	28,710	6,499	8,513	22,887	12,971
	26 Gungoren	1,155	1,928	15,301	13,381	14,029	9,473	1,384	2,253	6,588	2,419
	27 Kagithane	4,951	1,915	9,787	6,301	7,094	9,545	10,051	9,423	8,166	3,411
	28 Kucukcekmece	8,146	36,547	120,691	70,617	68,029	43,367	10,913	14,476	151,004	45,866
	29 Sariyer	4,982	2,460	10,160	5,721	6,655	7,610	8,490	5,371	12,000	6,378
	30 Silivri	5,405	29,035	57,561	37,216	26,531	25,376	7,284	8,989	171,787	76,722
	31 Sisli	10,452	2,654	12,025	8,143	10,055	12,235	22,631	20,830	10,823	4,829
	32 Zeytinburnu	1,517	1,806	8,718	10,205	15,462	8,968	1,851	3,476	5,938	1,944
	33 Gebze	18,849	1,781	5,924	4,024	3,746	3,616	2,347	2,405	8,125	4,704
Total		494,431	247,901	622,693	434,259	455,207	347,986	177,493	202,139	1,141,219	339,453

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (3) Car Passenger Cont’d

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	563	651	673	548	1,494	382	819	2,831	863	2,248
	2 Beykoz	752	1,481	1,823	1,020	4,512	717	3,115	5,473	2,655	1,804
	3 Kadikoy	4,198	4,268	5,119	4,352	10,059	2,631	8,012	15,470	6,457	8,421
	4 Kartal	1,304	1,890	2,022	1,551	4,932	1,032	2,589	7,947	2,615	3,480
	5 Maltepe	1,566	1,971	2,204	1,738	4,953	1,111	3,052	7,843	2,838	3,696
	6 Pendik	1,625	2,277	2,402	1,849	5,941	1,275	3,056	10,052	3,032	4,510
	7 Sultanbeyli	278	407	437	334	1,048	231	550	1,720	536	676
	8 Sile	117	271	227	131	734	133	244	1,340	314	539
	9 Tuzla	572	991	1,017	759	2,569	536	1,167	4,174	1,287	1,863
	10 Umranyye	3,205	3,846	4,418	3,446	9,876	2,198	7,089	14,868	6,017	6,275
	11 Uskudar	4,719	4,178	5,487	4,973	9,425	2,857	9,387	13,747	5,970	6,326
	12 Avclar	1,352	3,928	2,771	2,435	6,482	2,324	2,137	25,777	1,917	8,697
	13 Bagcilar	3,628	19,696	9,590	7,039	21,719	12,032	6,290	47,712	4,435	8,724
	14 Baahcelievler	3,809	12,895	7,621	8,328	14,459	23,162	5,069	50,732	3,556	7,843
	15 Bakirkoy	3,608	8,384	6,010	7,793	11,301	10,600	4,211	38,881	3,189	7,585
	16 Bayrampasa	3,328	10,292	9,489	7,354	25,208	6,136	5,147	16,016	3,027	4,353
	17 Besiktas	5,323	5,307	9,530	7,813	14,625	3,251	24,615	14,569	11,290	6,091
	18 Beyoglu	5,636	4,471	8,130	8,990	10,073	2,922	9,022	9,563	3,513	3,207
	19 Buyukcekmece	11,097	36,388	24,007	17,853	63,109	15,948	19,215	232,716	18,084	138,513
	20 Catalca	1,271	4,285	3,320	2,152	10,717	1,757	2,544	21,395	2,521	19,868
	21 Eminonu	9,609	5,032	7,148	16,461	9,656	3,223	4,479	8,876	2,767	3,424
	22 Esenler	3,571	16,890	9,069	6,868	21,448	8,983	5,728	47,221	4,009	8,444
	23 Eyup	3,798	6,959	17,830	7,120	27,743	4,055	11,510	16,993	5,632	5,616
	24 Fatih	8,969	8,425	11,596	38,917	15,011	6,535	6,825	15,465	3,261	4,360
	25 Gaziosmanpasa	6,684	17,999	25,559	11,584	83,100	8,426	17,295	45,691	9,818	13,081
	26 Gungoren	2,075	8,291	4,455	4,793	7,776	13,410	2,587	13,045	1,637	3,361
	27 Kagithane	4,147	6,068	13,030	6,994	19,389	3,751	34,533	16,062	8,244	4,817
	28 Kucukcekmece	13,613	63,344	30,681	22,362	85,676	21,564	23,611	245,374	20,174	60,986
	29 Sariyer	3,520	5,848	8,790	4,804	17,460	2,889	15,092	20,068	41,009	9,151
	30 Silivri	7,901	28,578	18,820	13,466	64,361	12,861	15,145	177,202	16,550	725,528
	31 Sisli	7,190	7,657	14,831	11,001	19,830	4,946	33,169	19,407	11,679	7,126
	32 Zeytinburnu	3,519	4,829	5,262	8,251	7,957	6,910	3,340	11,299	1,844	2,836
	33 Gebze	2,080	3,024	3,000	2,334	7,640	1,699	3,656	13,688	3,784	6,411
	Total	134,627	310,821	276,368	245,413	620,283	190,487	294,300	1,193,217	214,524	1,099,860

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	1,700	989	8,472	75,197
	2 Beykoz	4,926	1,474	8,070	127,898
	3 Kadikoy	16,962	6,336	47,305	948,585
	4 Kartal	5,004	2,307	44,787	542,046
	5 Maltepe	6,076	2,599	30,338	476,163
	6 Pendik	5,872	2,869	93,096	746,197
	7 Sultanbeyli	1,103	519	9,202	91,715
	8 Sile	496	291	3,556	38,712
	9 Tuzla	2,245	1,104	65,561	276,164
	10 Umranyye	14,049	5,117	42,136	688,919
	11 Uskudar	21,836	6,676	29,190	658,455
	12 Avclar	3,657	3,918	1,383	194,606
	13 Bagcilar	9,956	12,073	2,536	356,766
	14 Baahcelievler	9,273	16,125	2,327	395,688
	15 Bakirkoy	7,975	13,565	2,467	299,847
	16 Bayrampasa	9,423	8,930	1,817	196,223
	17 Besiktas	55,789	6,815	4,101	309,485
	18 Beyoglu	24,805	6,052	2,226	192,101
	19 Buyukcekmece	30,525	28,929	13,173	1,616,021
	20 Catalca	3,987	3,247	2,058	164,528
	21 Eminonu	11,642	7,784	2,651	166,358
	22 Esenler	9,314	10,177	2,313	280,493
	23 Eyup	16,504	7,859	2,536	217,928
	24 Fatih	14,680	14,702	2,191	245,654
	25 Gaziosmanpasa	24,517	15,969	4,900	465,266
	26 Gungoren	5,089	9,095	1,105	151,926
	27 Kagithane	37,353	7,405	2,657	258,956
	28 Kucukcekmece	37,138	35,765	13,435	1,321,773
	29 Sariyer	26,927	6,284	4,853	274,543
	30 Silivri	22,859	20,552	11,822	1,637,706
	31 Sisli	93,657	9,858	4,606	401,159
	32 Zeytinburnu	6,825	15,576	1,254	148,277
	33 Gebze	7,173	3,823	356,387	880,381
	Total	549,337	294,784	824,511	14,845,736

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (4) Walking Passenger

Zone 1 – 10

Passenger/ day

		Zone Name	Destination Zone												
			1	2	3	4	5	6	7	8	9	10			
Origin Zone	1	Adalar	5,240	0	0	0	0	0	0	0	0	0	0	0	0
	2	Beykoz	0	26,115	0	0	0	0	0	0	0	0	0	0	6
	3	Kadikoy	0	0	252,248	218	3,987	0	0	0	0	0	0	0	10,342
	4	Kartal	0	0	346	234,828	8,335	8,690	1,635	0	0	0	0	0	3,087
	5	Maltepe	0	0	8,727	1,970	191,077	0	0	0	0	0	0	0	457
	6	Pendik	0	0	0	15,771	0	267,908	0	0	0	3,197	0	0	0
	7	Sultanbeyli	0	0	0	1,127	0	676	48,643	0	0	0	0	0	0
	8	Sile	0	0	0	0	0	0	0	18,255	0	0	0	0	0
	9	Tuzla	0	0	0	0	0	1,936	0	0	135,725	0	0	0	0
	10	Umranyye	0	7	12,626	1,984	116	0	0	0	0	0	0	209,849	0
	11	Uskudar	0	275	15,502	0	0	0	0	0	0	0	0	0	9,762
	12	Avcilar	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	Bagcilar	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	Baahcelievler	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	Bakirkoy	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	Bayrampasa	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	Besiktas	0	6	0	0	0	0	0	0	0	0	0	0	0
	18	Beyoglu	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	Buyukcekmece	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	Catalca	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	Eminonu	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	Esenler	0	0	0	0	0	0	0	0	0	0	0	0	0
	23	Eyup	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	Fatih	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	Gaziosmanpasa	0	0	0	0	0	0	0	0	0	0	0	0	0
	26	Gungoren	0	0	0	0	0	0	0	0	0	0	0	0	0
	27	Kagithane	0	0	0	0	0	0	0	0	0	0	0	0	0
	28	Kucukcekmece	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	Sariyer	0	71	0	0	0	0	0	0	0	0	0	0	0
	30	Silivri	0	0	0	0	0	0	0	0	0	0	0	0	0
	31	Sisli	0	0	0	0	0	0	0	0	0	0	0	0	0
	32	Zeytinburnu	0	0	0	0	0	0	0	0	0	0	0	0	0
	33	Gebze	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	5,240	26,474	289,449	255,898	203,515	279,210	50,278	18,255	138,922	233,503			

Zone 11 - 20

		Zone Name	Destination Zone												
			11	12	13	14	15	16	17	18	19	20			
Origin Zone	1	Adalar	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	Beykoz	214	0	0	0	0	0	24	0	0	0	0	0	0
	3	Kadikoy	14,705	0	0	0	0	0	0	0	0	0	0	0	0
	4	Kartal	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	Maltepe	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	Pendik	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	Sultanbeyli	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	Sile	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	Tuzla	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	Umranyye	7,880	0	0	0	0	0	0	0	0	0	0	0	0
	11	Uskudar	161,564	0	0	0	0	0	260	156	0	0	0	0	0
	12	Avcilar	0	65,134	0	0	0	0	0	0	17,300	0	0	0	0
	13	Bagcilar	0	0	209,750	24,021	0	1,212	0	0	0	0	0	0	0
	14	Baahcelievler	0	0	20,484	152,142	8,027	0	0	0	0	0	0	0	0
	15	Bakirkoy	0	0	0	4,806	79,416	0	0	0	0	0	0	0	0
	16	Bayrampasa	0	0	750	0	0	73,227	0	38	0	0	0	0	0
	17	Besiktas	306	0	0	0	0	0	28,280	1,707	0	0	0	0	0
	18	Beyoglu	311	0	0	0	0	479	2,471	60,164	0	0	0	0	0
	19	Buyukcekmece	0	12,758	0	0	0	0	0	0	356,792	0	0	0	0
	20	Catalca	0	0	0	0	0	0	0	0	0	0	0	34,211	0
	21	Eminonu	80	0	0	0	0	0	49	5,446	0	0	0	0	0
	22	Esenler	0	0	19,393	1,048	0	12,481	0	0	0	0	0	0	0
	23	Eyup	0	0	0	0	0	5,894	0	721	0	0	0	0	0
	24	Fatih	0	0	0	0	379	3,328	0	3,423	0	0	0	0	0
	25	Gaziosmanpasa	0	0	0	0	0	13,190	0	170	0	0	0	0	0
	26	Gungoren	0	0	6,662	9,423	2,862	2,166	0	0	0	0	0	0	0
	27	Kagithane	0	0	0	0	0	0	3,616	1,865	0	0	0	0	0
	28	Kucukcekmece	0	0	6,913	3,599	2,289	0	0	0	0	0	0	0	0
	29	Sariyer	3	0	0	0	0	0	387	0	0	0	0	0	0
	30	Silivri	0	0	0	0	0	0	0	0	0	0	0	93	0
	31	Sisli	69	0	0	0	0	0	7,299	7,836	0	0	0	0	0
	32	Zeytinburnu	0	0	0	1,368	6,217	3,215	0	0	0	0	0	0	0
	33	Gebze	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	185,132	77,892	263,952	196,407	99,190	115,192	42,386	81,526	374,092	34,304			

Table 2.1.4 Future Person Trip OD Matrix of “Do Maximum” Case (2023) cont’d
 (4) Walking Passenger cont’ed

Zone 21 – 30

Passenger/ day

	Zone Name	Destination Zone									
		21	22	23	24	25	26	27	28	29	30
Origin Zone	1 Adalar	0	0	0	0	0	0	0	0	0	0
	2 Beykoz	0	0	0	0	0	0	0	0	100	0
	3 Kadikoy	0	0	0	0	0	0	0	0	0	0
	4 Kartal	0	0	0	0	0	0	0	0	0	0
	5 Maltepe	0	0	0	0	0	0	0	0	0	0
	6 Pendik	0	0	0	0	0	0	0	0	0	0
	7 Sultanbeyli	0	0	0	0	0	0	0	0	0	0
	8 Sile	0	0	0	0	0	0	0	0	0	0
	9 Tuzla	0	0	0	0	0	0	0	0	0	0
	10 Umranyye	0	0	0	0	0	0	0	0	0	0
	11 Uskudar	0	0	0	0	0	0	0	0	6	0
	12 Avcilar	0	0	0	0	0	0	0	0	0	0
	13 Bagcilar	0	11,270	0	0	0	6,464	0	7,514	0	0
	14 Baahcelievler	0	429	0	0	0	7,496	0	5,187	0	0
	15 Bakirkoy	0	0	0	54	0	1,459	0	1,193	0	0
	16 Bayrampasa	0	8,893	4,370	727	17,032	1,879	0	0	0	0
	17 Besiktas	58	0	0	11	0	0	1,834	0	211	0
	18 Beyoglu	2,711	0	2,356	3,976	563	0	1,849	0	0	0
	19 Buyukcekmece	0	0	0	0	0	0	0	0	0	0
	20 Catalca	0	0	0	0	0	0	0	0	0	119
	21 Eminonu	39,306	0	319	21,721	0	0	0	0	0	0
	22 Esenler	0	73,918	403	52	2,858	7,326	0	633	0	0
	23 Eyup	44	190	44,993	1,507	14,341	27	2,365	0	0	0
	24 Fatih	6,735	151	4,499	85,913	382	553	15	0	0	0
	25 Gaziosmanpasa	0	1,144	10,204	105	227,559	0	35	0	0	0
	26 Gungoren	0	4,883	81	190	0	39,428	0	0	0	0
	27 Kagithane	0	0	2,095	14	78	0	82,139	0	827	0
	28 Kucukcekmece	0	1,494	0	0	0	0	0	534,426	0	0
	29 Sariyer	0	0	0	0	0	0	309	0	56,873	0
	30 Silivri	0	0	0	0	0	0	0	0	0	535,134
	31 Sisli	202	0	52	206	0	0	10,306	0	506	0
	32 Zeytinburnu	205	1,036	920	6,123	0	4,677	0	0	0	0
	33 Gebze	0	0	0	0	0	0	0	0	0	0
Total		49,261	103,408	70,292	120,599	262,813	69,309	98,852	548,953	58,523	535,253

Zone 31 - 33

	Zone Name	Destination Zone			Total
		31	32	33	
Origin Zone	1 Adalar	0	0	0	5,240
	2 Beykoz	0	0	0	26,459
	3 Kadikoy	0	0	0	281,500
	4 Kartal	0	0	0	256,921
	5 Maltepe	0	0	0	202,231
	6 Pendik	0	0	0	286,876
	7 Sultanbeyli	0	0	0	50,446
	8 Sile	0	0	0	18,255
	9 Tuzla	0	0	0	137,661
	10 Umranyye	0	0	0	232,462
	11 Uskudar	48	0	0	187,573
	12 Avcilar	0	0	0	82,434
	13 Bagcilar	0	0	0	260,231
	14 Baahcelievler	0	318	0	194,083
	15 Bakirkoy	0	2,076	0	89,004
	16 Bayrampasa	0	3,059	0	109,975
	17 Besiktas	10,215	0	0	42,628
	18 Beyoglu	13,490	0	0	88,370
	19 Buyukcekmece	0	0	0	369,550
	20 Catalca	0	0	0	34,330
	21 Eminonu	3	801	0	67,725
	22 Esenler	0	1,714	0	119,826
	23 Eyup	53	945	0	71,080
	24 Fatih	165	11,879	0	117,422
	25 Gaziosmanpasa	0	249	0	252,656
	26 Gungoren	0	2,253	0	67,948
	27 Kagithane	22,263	0	0	112,897
	28 Kucukcekmece	0	0	0	548,721
	29 Sariyer	1,091	0	0	58,734
	30 Silivri	0	0	0	535,227
	31 Sisli	115,978	0	0	142,454
	32 Zeytinburnu	0	65,830	0	89,591
	33 Gebze	0	0	564,278	564,278
Total		163,306	89,124	564,278	5,704,788

2.2. Desire Line Chart

In the previous section, total sixteen OD motrices are tabulated for present OD and three future cases. Out of them, present OD and “Do Nothing”OD were illustrated in desire line chart already in Chapter 11 of the main text volume. Here, the other two cases of “Maximum Railway” and “Do Mximum”are presented in desire line chart. They are shown in the following order.

Figure 2.2.1 Desire Line Chart of Car Passenger under “Maximum Rail” Case (2023)

Figure 2.2.2 Desire Line Chart of Service Vehicle Passenger under “Maximum Rail” Case (2023)

Figure 2.2.3 Desire Line Chart of Public Transport Passenger under “Maximum Rail” Case (2023)

Figure 2.2.4 Desire Line Chart of Car Passenger under “Do Maximum” Case (2023)

Figure 2.2.5 Desire Line Chart of Service Vehicle Passenger under “Do Maximum” Case (2023)

Figure 2.2.6 Desire Line Chart of Public Transport Passenger under “Do Maximum” Case (2023)

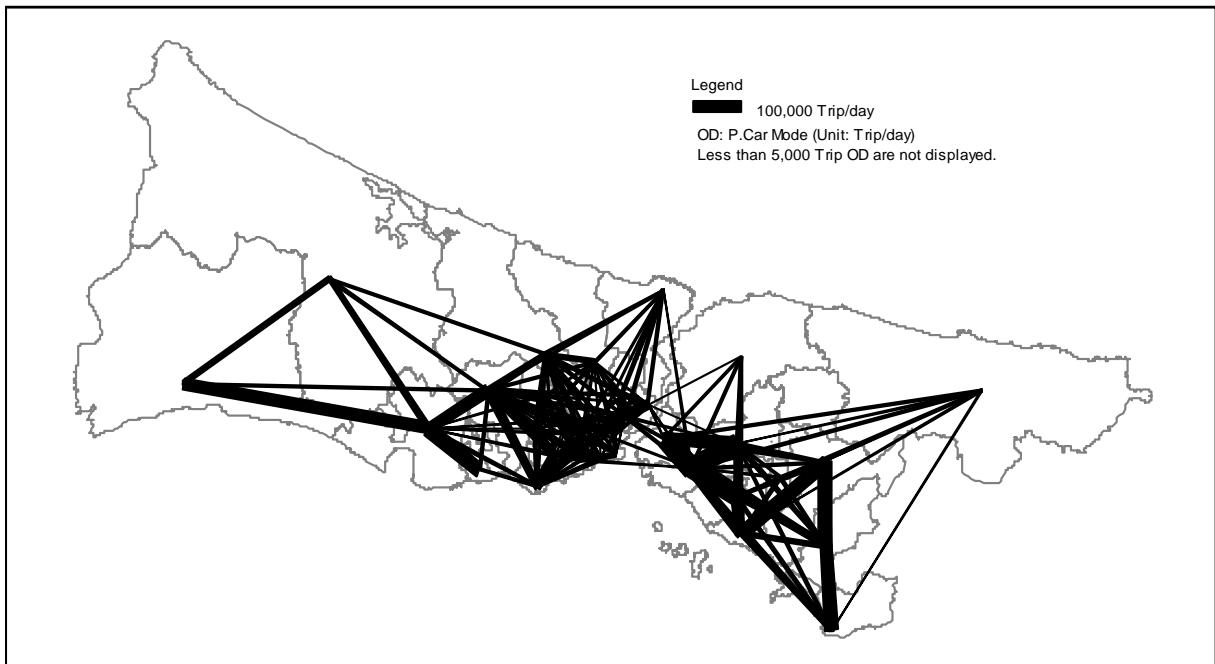


Figure 2.2.1 Desire Line Chart of Car Passenger under “Maximum Rail” Case (2023)

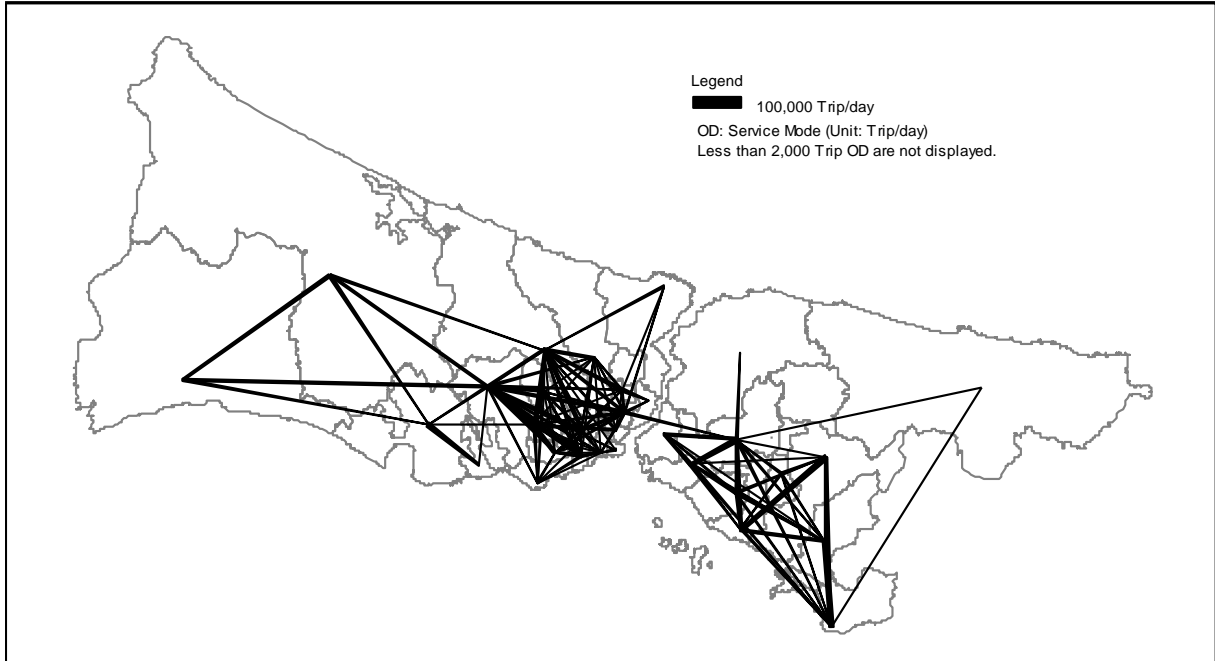


Figure 2.2.2 Desire Line Chart of Service Vehicle Passenger under
“Maximum Rail” Case (2023)

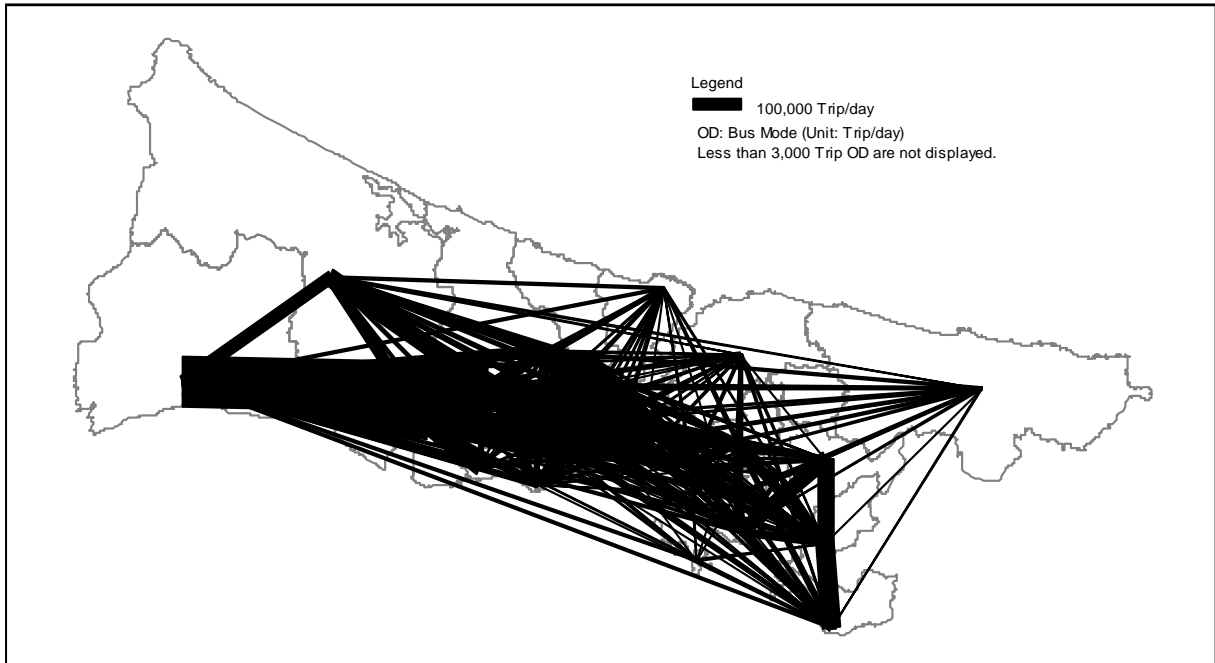


Figure 2.2.3 Desire Line Chart of Public Transport Passenger under
“Maximum Rail” Case (2023)

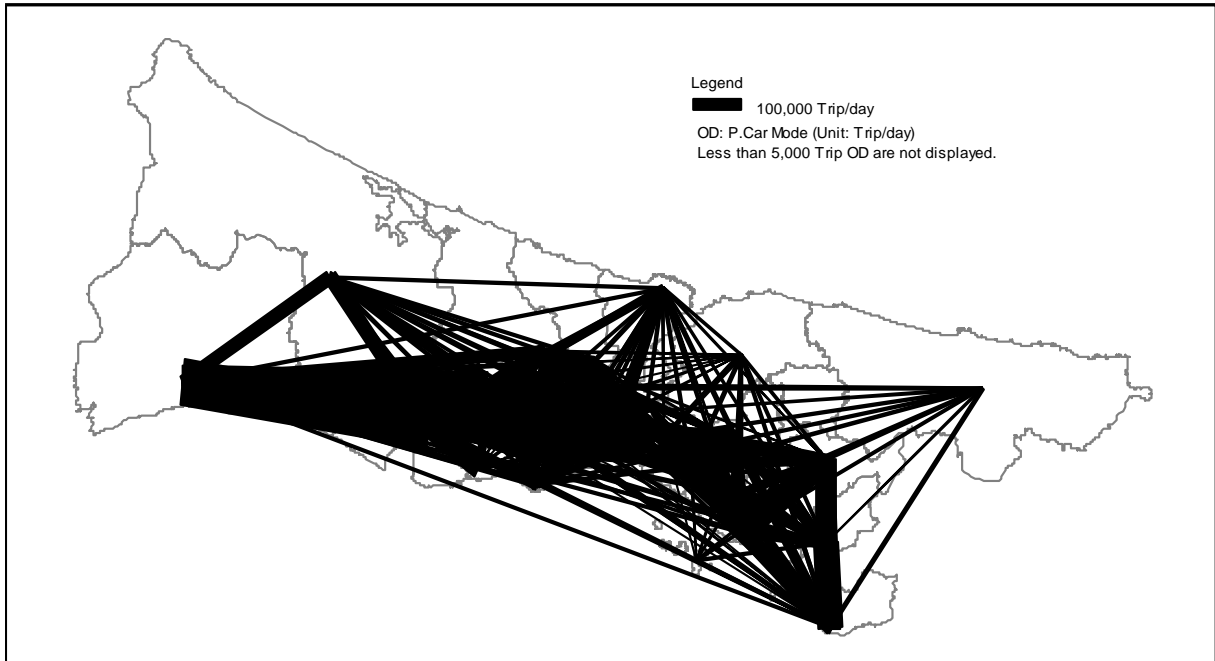


Figure 2.2.4 Desire Line Chart of Car Passenger under “Do Maximum” Case (2023)

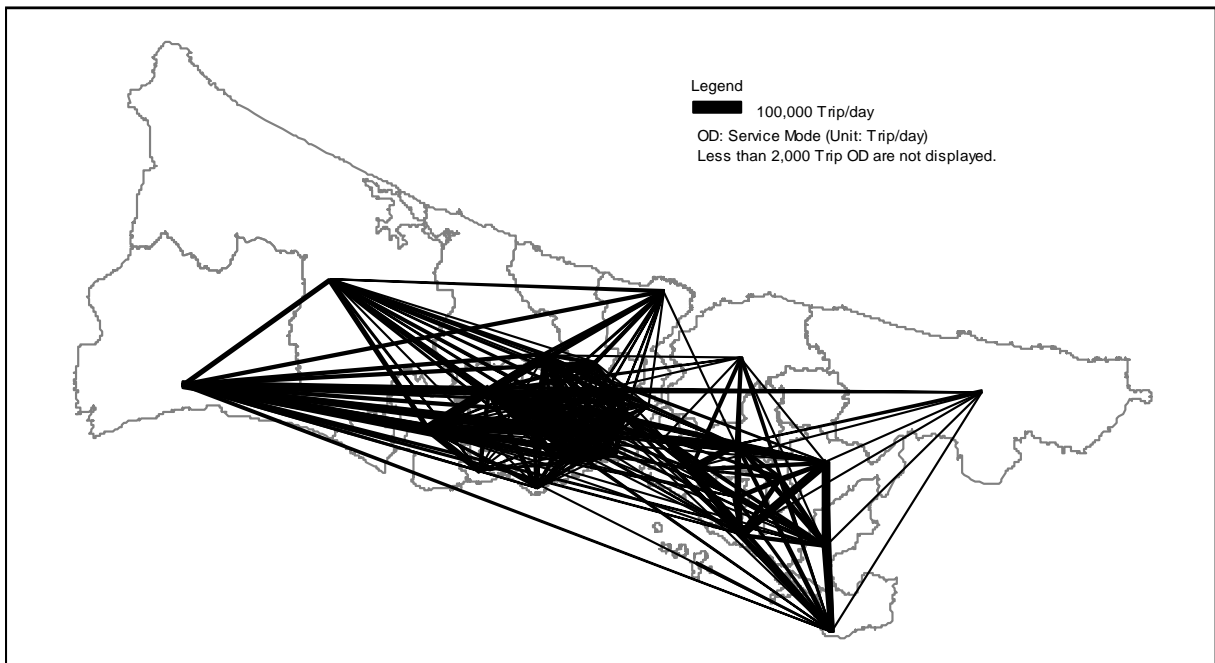


Figure 2.2.5 Desire Line Chart of Service Vehicle Passenger under “Do Maximum” Case (2023)

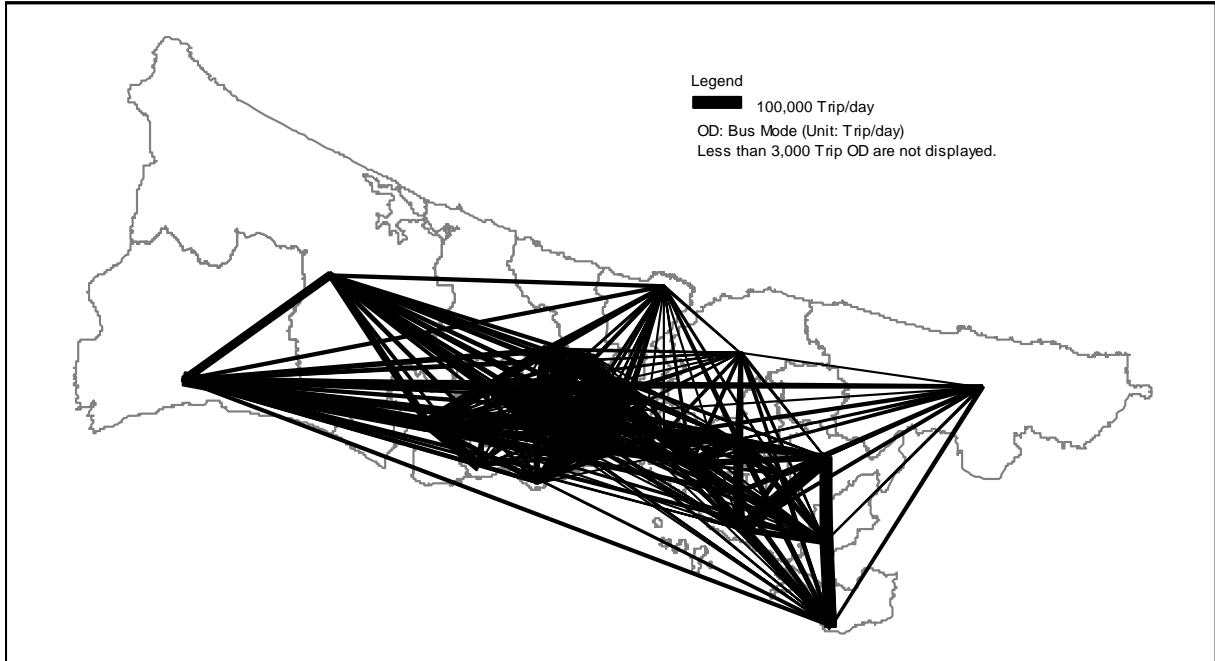


Figure 2.2.6 Desire Line Chart of Public Transport Passenger under
“Do Maximum” Case (2023)

2.3 Modal Shift by Network Development

2.3.1. OD Matrix by Mode

The approach for demand forecast in this study adopts basically “the four step method” as stated in Chapter 11 of the main text volume, where future modal share is affected by the network conditions. In other words, future OD matrix can be forecast only after a future network is given.

As the first step, future OD matrix was forecast assuming no change on the present network. This is called “Do nothing” OD. The second OD matrix was made assuming all the railway projects including even premature ones in an idea stage, but not including any road projects. This OD matrix is called “Maximum Railway” OD matrix. The last OD matrix was forecast assuming the maximum network, that is, present network plus all the road and railway projects. This is called “Do maximum” OD matrix.

In this section, some comparative analyses were made on the above-mentioned four OD matrices. Total number of trips of the present OD matrix is about 365 million trips, while Do nothing OD in 2023 has 645 million trips, 1.8 times of the present. Their compositions by trip purpose are as shown in Table 2.3.1.

Table 2.3.1 Trip Composition by Purpose in 2006 and 2023

(Percent)

Case	Year	HBW	HBS	HBO	NHB	Total
Present	2006	60.2	8.0	19.6	12.3	100.0
Do Nothing	2023	35.1	24.4	30.6	9.9	100.0
Max. Railway	2023	46.7	19.4	27.6	6.3	100.0
Do Maximum	2023	31.5	32.1	29.1	7.3	100.0

Source: Study Team

2.3.2. Trip Length Distribution

Table 2.3.2 shows the average trip length by mode. As the urbanized areas will expand in the future, the average trip length tends to become longer in general. In 2023, average trip length will be 1.4 to 1.6 times of the present.

It is noted that passenger car and service vehicle passenger in the Maximum railway OD shows shorter length than present, while public transport makes its average length double of the present. This suggests that longer trips will shift to railway due to heavier traffic and more serious congestion on roads.

Figure 2.3.1 and Table 2.3.3 shows distribution of trip length by mode. The Do maximum OD shows the lengthening of car trips due to improvement of road network.

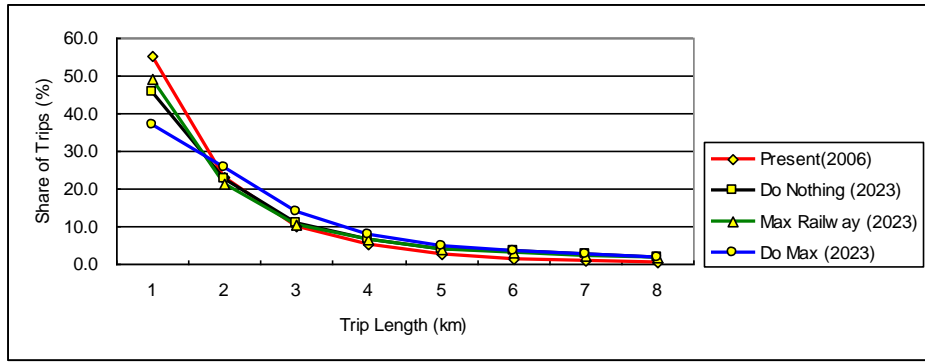
Table 2.3.2 Trip Length Distribution by Mode

(Kilometer/ Trip)

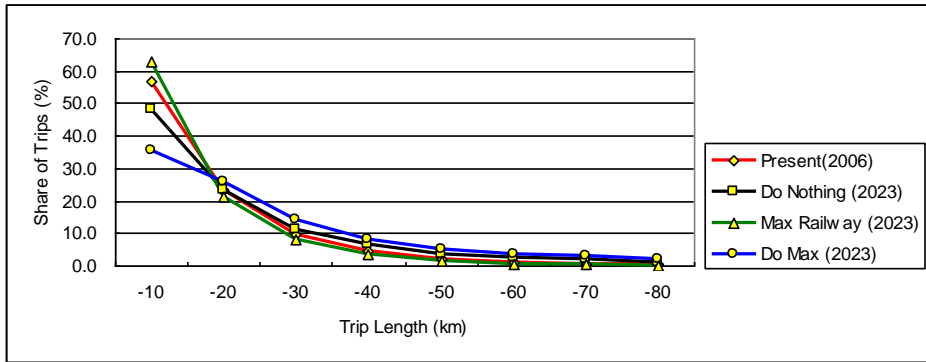
Case	Year	Passenger Car	Service Vehicle	Public Transport	All Mode Without Walk
Present	2006	10.1	11.8	10.5	10.6
Do Nothing	2023	13.3	19.6	14.2	15.1
Max Railway		9.1	9.5	19.1	14.2
Do Maximum		16.5	15.9	16.0	16.3

Source: Study Team

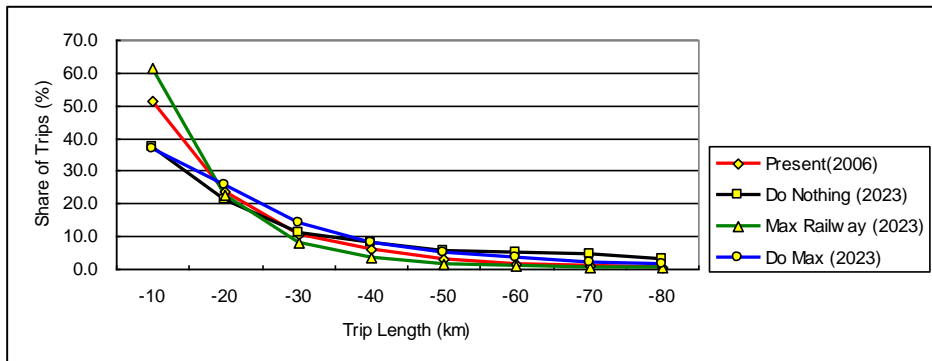
(1) All Mode excluding Walk Trip



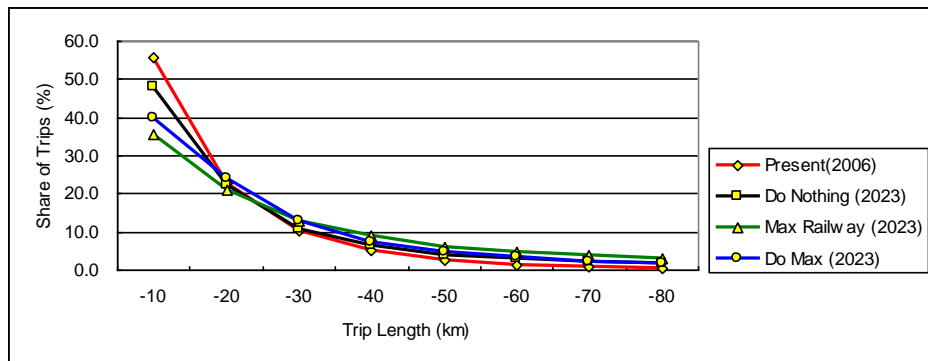
(2) Passenger Car Trip



(3) Service Vehicle passengers Trip



(4) Public Transport Passengers Trip



Source: Study Team

Figure 2.3.1 Trip Length Distribution by Mode

Table 2.3.3 Distribution of Trip Length By Case

(1000trip/day)

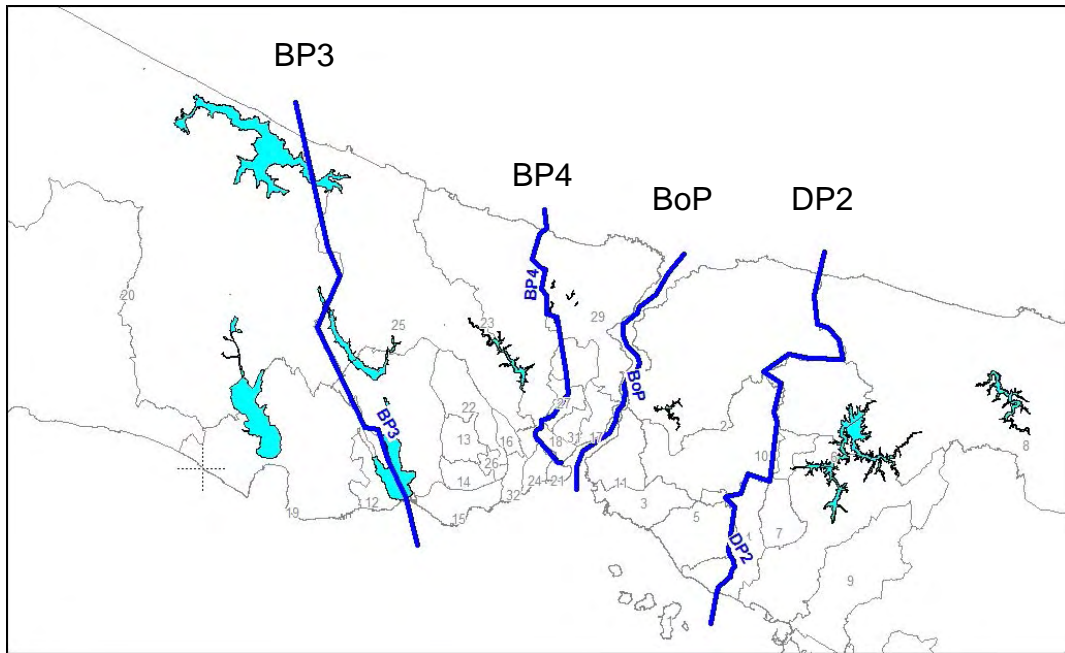
Distance Range (km)		-10	-20	-30	-40	-50	-60	-70	-80
2006	Walk	9,791	231	14	1	0	0	0	0
	P.Car	2,045	829	353	172	79	40	23	12
	Service	1,065	487	223	127	62	36	22	14
	Public	2,847	1,162	519	260	124	68	39	20
	Total	15,749	2,710	1,109	560	265	144	85	46
Total excl. Walking		5,957	2,478	1,095	559	265	144	85	46
Do Nothing Case in 2023	Walk	14,474	370	35	5	0	0	0	0
	P.Car	3,012	1,454	705	404	225	146	116	73
	Service	1,595	906	483	336	236	224	200	139
	Public	3,943	1,832	870	515	310	240	182	125
	Total	23,024	4,561	2,093	1,260	771	610	498	337
Total excl. Walking		8,550	4,191	2,058	1,255	770	610	498	337
Max Rainway in 2023	Walk	12,320	299	32	4	0	0	0	0
	P.Car	5,168	1,732	671	305	132	60	38	20
	Service	1,047	383	134	58	27	15	11	7
	Public	3,674	2,146	1,335	916	623	497	409	289
	Total	22,209	4,561	2,173	1,284	783	572	458	316
Total excl. Walking		9,889	4,262	2,140	1,279	783	572	458	316
Do Maximum in 2023	Walk	5,698	4	0	1	0	0	0	0
	P.Car	5,307	3,876	2,111	1,198	736	494	416	309
	Service	1,281	893	499	289	171	123	75	54
	Public	2,646	1,606	858	497	312	231	151	110
	Total	14,932	6,380	3,468	1,984	1,219	848	642	473
Total excl. Walking		9,234	6,376	3,468	1,983	1,219	848	642	473

Distance Range (km)		-100	-110	-120	-130	-140	-150	150-	Total
2006	Walk	0	0	0	0	0	0	7	10,045
	P.Car	5	2	1	1	0	0	21	3,591
	Service	6	3	2	1	1	0	16	2,075
	Public	9	4	2	1	1	0	26	5,097
	Total	20	9	6	3	1	1	70	20,807
Total excl. Walking		20	9	6	3	1	1	63	10,762
Do Nothing Case in 2023	Walk	0	0	0	0	0	0	12	14,896
	P.Car	21	11	8	4	2	1	29	6,246
	Service	27	15	13	9	4	2	20	4,266
	Public	29	17	12	8	4	2	36	8,183
	Total	77	43	33	21	10	5	96	33,591
Total excl. Walking		77	43	33	21	10	5	84	18,695
Max Rainway in 2023	Walk	0	0	0	0	0	0	12	12,669
	P.Car	9	3	1	1	0	0	59	8,213
	Service	2	1	0	0	0	0	9	1,698
	Public	72	42	31	21	11	6	58	10,273
	Total	82	46	32	22	11	6	138	32,853
Total excl. Walking		82	46	32	22	11	6	126	20,184
Do Maximum in 2023	Walk	0	0	0	0	0	0	2	5,705
	P.Car	72	39	28	16	9	4	78	14,846
	Service	21	13	10	6	4	2	26	3,506
	Public	45	26	18	11	7	4	32	6,638
	Total	138	78	56	33	20	9	138	30,694
Total excl. Walking		138	78	56	33	20	9	137	24,990

Source: Study Team

2.3.3. Traffic Volume crossing Screen Lines

In order to check the fitness of the model to actual traffic volume, four screen lines were drawn so to cross the study area as shown in Figure 12.3.1. On the other hand, traffic volume by the model can be obtained by integrating zones into 2x2 sized matrix. Traffic volumes of each case are as shown in Table 2.3.4.



Source: Study Team

Figure 2.3.2 Screen Lines for Demand/ Capacity Analysis

Table 2.3.4 Traffic Volume crossing Screen Line

Screen Line	Direction	Year/ Case	(pcu/day)			
			Passenger Car	Service Vehicle	Public Transport	Total
BoP	to east	2006	159,107	107,338	261,792	528,237
		2023 Do Nothing Case	269,699	378,635	551,246	1,199,580
		2023 Max Railway Case	169,789	27,108	658,561	855,458
		2023 Do Maximum Case	833,766	190,795	376,831	1,401,392
	to west	2006	175,592	128,450	290,991	595,033
		2023 Do Nothing Case	187,612	147,523	235,776	570,911
		2023 Max Railway Case	168,374	32,715	650,982	852,071
		2023 Do Maximum Case	736,699	147,909	372,628	1,257,236
BP3	entrance	2006	119,565	93,053	170,600	383,218
		2023 Do Nothing Case	294,301	247,604	406,090	947,995
		2023 Max Railway Case	148,151	26,086	1,131,168	1,305,405
		2023 Do Maximum Case	855,916	245,972	424,153	1,526,041
	exit	2006	118,140	90,618	169,360	378,118
		2023 Do Nothing Case	432,227	573,312	550,670	1,556,209
		2023 Max Railway Case	156,275	31,433	1,123,477	1,311,185
		2023 Do Maximum Case	1,640,344	327,094	556,526	2,523,964
BP4	entrance	2006	257,749	179,198	411,408	848,355
		2023 Do Nothing Case	433,196	512,651	719,539	1,665,386
		2023 Max Railway Case	301,169	72,107	940,774	1,314,050
		2023 Do Maximum Case	1,237,790	399,540	570,018	2,207,348
	exit	2006	265,214	185,008	422,333	872,555
		2023 Do Nothing Case	308,919	273,841	451,662	1,034,422
		2023 Max Railway Case	316,213	78,770	948,381	1,343,364
		2023 Do Maximum Case	1,142,272	255,623	584,841	1,982,736
DP2	entrance	2006	143,670	105,949	221,422	471,041
		2023 Do Nothing Case	440,535	286,894	460,828	1,188,257
		2023 Max Railway Case	316,436	62,087	570,794	949,317
		2023 Do Maximum Case	1,112,506	280,437	466,060	1,859,003
	exit	2006	138,757	97,637	208,200	444,594
		2023 Do Nothing Case	191,850	266,650	380,449	838,949
		2023 Max Railway Case	318,731	60,915	574,663	954,309
		2023 Do Maximum Case	766,996	193,555	395,388	1,355,939

Source: Study Team

2.3.4. Modal Shift

Improvement of a mode will attract transportation demand to the mode. Table 2.3.5 compares the modal shares of three future OD matrices. The table means a comparison of three assumptions stated at the definition of three OD matrices.

Do nothing OD shows a similar pattern of modal share to the present. Considering a significant increase of passenger cars in the future, the almost same share of car passengers shows implicitly a strong suppression of demand by road congestion. If a railway network is developed without road improvement, a significant modal share will occur from service vehicle use to public transport use and road traffic would become less. Consequently, car user will increase for that.

If road projects are implemented to the maximum extent, the share of passenger car will

rise up to almost 60%. Thus, almost a half of passenger car users were shifted to public transport use in case of Do nothing assumption.

Table 2.3.5 Modal Share by Alternative OD Matrices

(Percent)					
Case	Year	Passenger Car	Service Vehicle	public Transport	Total
Present	2006	32.8	23.8	43.4	100.0
Do Nothing	2023	31.8	26.4	41.9	100.0
Max. Railway	2023	37.3	6.3	56.4	100.0
Do Maximum	2023	59.5	16.1	24.3	100.0

Source: Study Team

2.3.5. Average Congestion Rate

The average congestion ratio (or the average V/C ratio of all the network links, weighted by the link distances) is 0.47 for the present metropolitan network as a whole and 0.75 for the CBD. The same ratio estimated for 2023 is 0.79 for the entire base network and 0.81 for the CBD. The average congestion level of the entire base network will be just as high as that of the present CBD (Table 2.3.6 and Figure 2.3.2)

The traffic volume (in person kilometers) on the links with congestion of 1.5 or more makes up 20% of the total on the present network. The same share forecast for the base network in 2023 is nearly 40%. This clearly shows that the base network will not be able to cope with the expected growth of demand. The network is in need of investment larger than the committed projects.

Table 2.3.6 Average Congestion Ratio

Year	Network	Metrop. Area	CBD*
2006	Present	0.47	0.75
2023	Present	0.93	1.00
	Base	0.79	0.81

*The area surrounded by TEM, Basin Expressway and Kozyayag Anadolu Expressway.

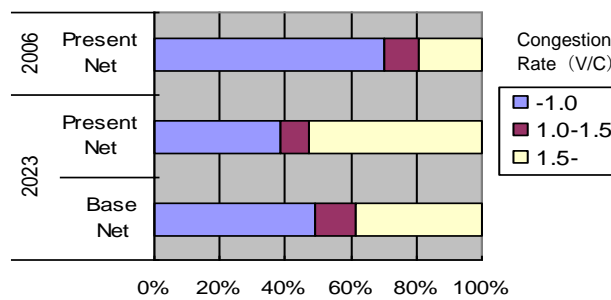


Figure 2.3.3 Percentage Composition of Traffic Volume by Level of Link Congestion

In the same way, Table 2.3.7 shows the road extension and traffic volume in terms of passenger-km by congestion rate.

Table 2.3.7 Congested Distance and Passengers in Congestion
 (Percentage)

Indicator	Case	Year	Congestion Rate (Volume/Capacity)				
			-1.0	1.0-1.2	1.2-1.5	1.5-	Total
Road Length	Do Nothing	2006	95.3	2.1	1.3	1.3	100.0
	Do Nothing	2023	81.6	4.9	4.6	8.9	100.0
	Max Railway	2023	77.9	10.1	6.0	6.0	100.0
	Do Maximum	2023	88.4	5.8	3.5	2.3	100.0
Passenger -Km	Do Nothing	2006	82.2	6.1	6.0	5.7	100.0
	Do Nothing	2023	44.1	7.4	9.9	38.6	100.0
	Max Railway	2023	51.5	14.8	11.9	21.8	100.0
	Do Maximum	2023	73.3	9.5	7.5	9.7	100.0

Source: Study Team