

付 録

1. 関係者リスト
2. 最大交通網プロジェクトの評価ランキングと優先度
3. プロジェクトの実施スケジュール
4. プロジェクトの位置図

付録 1 関係者リスト

トルコ側

IMM Transportation Department	
Muzaffer Hacimustafaoglu	Deputy Secretary General and Director of Transportation Department

IMM Project Team	
Atilla Alkan	Team Leader & Manager of Transportation Planning
Ihsan Hadi Karadeniz	Deputy Team Leader & Deputy Manager of Transportation Planning
Neriman Şahin	Msc.Civil Engineer
Mehmet Çakır	Urban Planner
Serap Çetinkaya	Msc.Urban Planner
Serkan Şimşek	Geophysics Engineer
Dilek ÇOL	Msc.Urban Planner
Emel Günay	Msc.Urban Planner
Orhan Aktaş	Msc. Statistician
Nilüfer Dünya	Urban Planner
Aysun Sarı	Urban Planner
Çare Olgun Çalışkan	Msc.Urban Planner
Gizem Erdoğan	Msc.Urban Planner
Berna Çalışkan	Msc.Civil Engineer
Eray Sezer	Msc.Urban Planner
Evren Posacı	Urban Planner

Advisors	
Prof.Dr.Gökmen Ergün	Transportation Planner
Prof.Dr.Aykut Toros	Demographer
Doç Dr. Murat Çelik	Transportation Planner
Yrd.Doç.Dr.Darçın Akın	Transportation Planner

Steering Committee	
Mesut Pektas	Istanbul Metropolitan Municipality General Secretary
Muzaffer Hacimustafaoglu	Deputy Secretary General and Director of Transportation Department
Metin Akbaş	Turkish State Railways (TCDD)
Kemal Tuncer	Turkish State Railways (TCDD)
İsmail Özdemir	Turkish State Railways (TCDD)
C.Yaşar Tangül	Turkish State Railways (TCDD)
A. Ufuk Kınık	Turkish State Railways (TCDD)
M.Rahmi Gül	Turkish State Railways (TCDD)
Hikmet Erkut	TCK 17. Regional Directorate
Mehmet Küçüköğlü	TCK 17. Regional Directorate
Asım Öztürk	TCK 17. Regional Directorate
Celal Mahmut Solak	City Gendarmerie Commandership
M.Ziya Erdem	DLH Marmaray Regional Management
D.Sema Yılmazkardeşler	DLH Marmaray Regional Management
Erhan Kura	DLH Marmaray Regional Management
Mehmet Arslan	DLH Marmaray Regional Management
Erdal Şahin	Istanbul Regional Directorate in Ministry of Transportation
Emre Sinan Purtul	Istanbul Regional Directorate in Ministry of Transportation
Yb. Yavuz Geçim	Istanbul Regional Directorate of Marine Undersecretariat
Erkan Tuncer	Istanbul Regional Directorate of Marine Undersecretariat
Kazım Alpay	Istanbul Regional Directorate of Marine Undersecretariat
Şükrü Uçar	DHMI Atatürk Airport Adiminstration General Directorate
Fevzi Sünbül	National Defence Ministry 1st Army Commandership Logistics Department
Ali Özsoylar	Istanbul Security Directorate
Gürzel Fırat	Istanbul Security Directorate
Turan Odabaş	Istanbul Security Directorate
Abdullah Çınar	Istanbul Chamber of Trades
Ömer Kuray	Istanbul Chamber of Trades
Meltem Duran	Istanbul Chamber of Trades
Mustafa Silah Yürekli	Istanbul Chamber of Trades
Suat Yalkın	Istanbul Chamber of Trades

日本側

JICA 調査団	
涌井 哲夫	総括 / 都市交通計画
田中 健次	都市計画
池西 登	GIS (1)/ 防災計画
酒井 夕子	GIS (2)
関根 憲一	交通需要モデル分析 (1)
堀江 哲雄	交通需要モデル分析 (2)
桂田 俊貞	道路系交通計画 (インフラ・交通管理)
松岡 誠也	交通管理計画 (2)
奥野 健太郎	道路系施設計画
井沢 滉	軌道系交通計画 (インフラ・施設)
三嶋 照宣	軌道系施設設計
内田 正吾	軌道系経営計画
庄山 高司	非軌道系公共交通・サービス経営計画
飯尾 彰敏	環境管理計画
高橋 克彦	行財政制度計画
熊沢 憲	経済 / 財務分析
渡辺 玉興	パイロット・プロジェクト
山田 泰子	業務調整

国際協力機構 (JICA)	
兵藤 哲朗	東京海洋科学技術大学 教授 支援委員長
讚井 一将	国際協力機構 東京本部 プロジェクト担当者
梅永 哲	国際協力機構 アンカラ事務所 次長
Ali BEKIN	国際協力機構 アンカラ事務所 プログラムマネージャー

Cooperator	
Dr.Metin Şenbil	Transport Engineer
Selim Çevik	Urban Planning and Transport Expert
Selen Zora	Secretary
Ece Işın Doğan	Secretary
Kosuke NASU	Transport Researcher

Özkan Eker	Directorate of Transport Coordination
Boğaçhan Akalın	Directorate of Transport Coordination
Yavuz Delice	Directorate of Transport Coordination
Namık Kaya	Public Transportation Service Directorate
Can Onur Gotuk	Public Transportation Service Directorate
Abdurrahman Uçak	Science Affairs Directorate
Nihat Cirit	Istanbul Sea Buses General Directorate (IDO)
Ali Osman Tekkenat	Istanbul Sea Buses General Directorate (IDO)
Fatih Karahacıoğlu	Istanbul Sea Buses General Directorate (IDO)
Hayrettin Oğuz	Istanbul Sea Buses General Directorate (IDO)
Yusuf Boztepe	Istanbul Sea Buses General Directorate (IDO)
Ömer Yıldız	Transportation Corporation (Istanbul Ulasim A.Ş.)
Ali Metin Yazar	Transportation Corporation (Istanbul Ulasim A.Ş.)
Kaan Yıldızgöz	Transportation Corporation (Istanbul Ulasim A.Ş.)
Faruk Karaosman	IETT General Directorate
Mustafa Hatipoğlu	IETT General Directorate
Şükrü Var	IETT General Directorate
Köksal Altinkaynak	IETT General Directorate

Participants Attendance in Weekly Routine Meetings		Times of Attendance*
Gülşen Teslime Aydın	BIMTAS	30
M.Metin Yazar	Transportation Corporation (Istanbul Ulasim A.S.)	12
Metin Küçükkoğlu	TCK 17. Regional Directorate	11
Hikmet Erkut	TCK 17. Regional Directorate	10
Evren Posacı	IMM City Planning Department	10
A.Ufuk Kınık	Turkish State Railways (TCDD)	8
Oğuzhan İmamoğlu	IMM City Planning Department	6
Hayrettin Oğuz	Istanbul Sea Buses General Directorate (IDO)	6
İsa Cerrah	IMM City Planning Department	5
Ömer Yıldız	Transportation Corporation (Istanbul Ulasim A.S.)	5
Abdullah Kazdal	IETT General Directorate	4
Mustafa Murteza	IMM Transportation Planning Department	4
Hasan Üstündağ	Istanbul Sea Buses General Directorate (IDO)	4
Yusuf Boztepe	Istanbul Sea Buses General Directorate (IDO)	4
Mustafa D.Güler	Transportation Corporation (Istanbul Ulasim A.S.)	4
D.Sema Yılmazkardeşler	DLH Marmaray Regional Management	3
Erhan Kura	DLH Marmaray Regional Management	3
Murat Dil	IMM City Planning Department	3
M.Tarık DüNDAR	Transportation Corporation (Istanbul Ulasim A.S.)	3
M.Rahmi Gül	Turkish State Railways (TCDD)	3
Mevlüt Mert	DLH Marmaray Regional Management	2
Erhan Şimşek	IMM Transportation Planning Department	2
Eser Dağ	IMM Transportation Planning Department	2
Murat Arısal	Transportation Corporation (Istanbul Ulasim A.S.)	2
Kamil Demircan	Transportation Corporation (Istanbul Ulasim A.S.)	2
İbrahim Eren	Turkish State Railways (TCDD)	2
Gülşen Çevik	BIMTAS	1
Murat Diren	BIMTAS	1
Mehmet Tekgül	DLH Marmaray Regional Management	1
Gülbin Saldır	DLH Marmaray Regional Management	1
Faruk Karaosman	IETT General Directorate	1
Kadri Yapıcıoğlu	IETT General Directorate	1
Yavuz Fırıncı	IETT General Directorate	1
İhsan Yılmaz	IMM City Planning Department	1
Engin Yetkin	IMM Planning Department	1
Tülay Mesutol	IMM Transportation Planning Department	1
Hale Erez Külekçi	IMM Transportation Planning Department	1
Melda Haznedaroğlu	IMM Transportation Planning Department	1
Lokman Yengin	Istanbul Sea Buses General Directorate (IDO)	1
Fahrettin Ulku	Istanbul Sea Buses General Directorate (IDO)	1
Şefika Demirci	Istanbul Sea Buses General Directorate (IDO)	1
Güngör Evren	Istanbul Technical University	1
Mümin Kahveci	Transportation Corporation (Istanbul Ulasim A.S.)	1
Soner Kazaca	Turkish State Railways (TCDD)	1
Metin Akbaş	Turkish State Railways (TCDD)	1

*金曜定例ミーティングは合計 50 回開催された。

付録 2 最大交通網プロジェクトの評価ランキングと優先度

(1) 道路

Code	Project	Length (km)	Const. Cost (US\$ mil.)	Economic Return	Demand	Congestion Alleviation	Land Use	Financial Return	Environment		Non-Economic Aggregated
									Natural	Social	
RD001	Tophane - Iplikci Tunnel	1.67	62.8	A	B	B	B	C	B	B	C
RD002	Widening of Hatboyu street (Coastal road Linkage) in Umraniye	8.07	195.2	B	C	B	B	C	A	A	B
RD003	Bakirkoy between D-100 Land Route (Incirli Junction) - Coastal Road (Atakoy Junction) underpass - flyover project	9.45	118.3	B	B	C	B	C	A	C	C
RD004	Widening project between Kiraç and Esenyurt construction road	2.83	9.4	A	A	C	B	C	A	A	B
RD005	Between Hadimkoy bridge- Yassioren road, road, junction project	9.23	28.6	A	A	C	B	C	A	B	B
RD006	Beykoz, Miharabat Street-TEM Highway Linkage project	1.44	12.3	A	B	C	B	C	A	A	B
RD007	Umraniye, between Kucuksu junction- İsfalt association (Kucuksu street) road rehabilitation project	12.85	50.6	A	C	B	B	C	A	B	C
RD008	Beylerbeyi - Harem Tunnel	4.15	210.0	A	B	C	B	C	B	B	C
RD009	Beylerbeyi - Hekimbasi Tunnel	3.09	175.8	C	B	C	B	C	B	B	C
RD010	Kadikoy - Kusdili Tunnel	1.03	48.4	A	C	C	B	C	A	B	C
RD011	Tophane - Haskoy Tunnel	1.19	24.9	A	B	C	B	C	A	B	C
RD012	Road Construction For W. Trade Center by Private Sector	9.24	40.3	A	C	C	B	C	A	A	C
RD013	Kucukcekmece D-100 Highway Cbancesme Junction - Olympics Road Linkage Road and Junction Project	26.54	291.8	C	B	B	B	C	A	A	B
RD014	Yakuplu Kumcular Servis Road Project	7.29	24.5	A	B	C	B	C	A	A	B
RD015	Derbent Haciosman Tunnel Project	2.87	61.9	B	B	C	B	C	C	B	C
RD016	Armutlualti - Poligon Mah. Tunnel Project	2.68	68.1	A	B	B	C	C	B	BB	C
RD017	Armutlualti - Ayazaga Tunnel Project	2.55	73.5	B	B	B	B	C	A	B	B
RD018	Kuyumcu Kent - Otogar - Eyüp Tunnel Project	13.83	332.8	B	B	C	B	C	A	B	C
RD019	Road rehabilitation project between Bagcilar, Malazgirt underpass-Mehmet Akif avenue (8.St-1/3St-1/13 St-2/13 St)	3.10	8.8	C	B	C	B	C	A	A	B
RD020	Tuzla Formula-1 Road Network 6 numbered road project	5.70	25.0	A	A	C	B	C	A	A	B
RD021	Link Road between Malazgirt Rd and Mahmat Akif Bulbari	0.90	4.3	A	B	A	B	C	A	B	B
RD022	Road project in Bakirkoy,(D-100 Highway Sefakoy junction - airport A-14 Apron linkage road)	0.52	9.7	A	B	C	B	C	A	A	B
RD023	Sultanbeyli Necip Fazil street - Kartal TEM linkage road project	0.33	4.1	A	B	C	B	C	A	B	C
RD024	Between Umraniye Mandira st - Bag st road project	0.60	4.5	C	C	C	B	C	A	A	C
RD025	New linkage road project between Umraniye Karadeniz street - Mandira street (continuous section of Hatboyu street)	0.21	4.5	A	C	C	B	C	A	A	C
RD026	Kartal Sehith Ahmet Yalcin St - Arkoz St - Cavusoglu St, Adnan Kahveci Viaduct Linkage road junction project	2.02	12.7	A	B	C	B	C	A	A	B
RD027	Umraniye, between Sile Road Yenidogan junction - Pasakoy junction road, junction implementation project	4.24	19.3	A	A	C	B	C	A	A	B
RD028	Re-organizing The existing road in Umraniye Cekmekoy Cavusbasi street according to the construction plan as 20m	2.49	7.5	A	B	C	B	C	A	A	B
RD029	Kartal between Tekel street - D-100 road, junction implementation project	2.48	25.0	A	B	C	B	C	A	A	B
RD030	Uskudar between Zubeyde Hanim Street - Hekimbasi Ciftlik street construction roads implementation projects	1.34	13.8	A	C	C	B	C	A	B	C
RD031	Beykoz , between Kavacik junction - Cekmekoy junction (Cavusbasi road) road, junction implementation project	11.10	31.6	A	B	C	B	C	A	B	C
RD032	West Buyukcekmece Road Network Package	40.46	495.6	A	A	B	A	C	A	B	A
RD033	East Silivri Road network Package	66.30	842.0	B	B	A	A	C	A	B	A
RD034	Silivri Center Road network Package	74.57	827.2	B	B	A	A	C	A	B	A
RD035	West Silivri (Port Area and University Area) Road Network Package	91.85	844.6	C	B	A	A	C	A	B	A
RD037	Tuzla Center Road Network Package	58.51	477.7	C	A	A	A	C	A	B	A
RD038	New Motorway west section Package	102.43	965.4	A	A	A	A	AA	A	B	A
RD039	New Motorway Kucucekmece section Package	40.49	547.7	B	A	A	A	C	A	B	A
RD040	New Motorway Kagithane section Package	17.30	520.5	C	A	B	B	B	A	B	C
RD041	New Bosphorus Crossing	7.77	843.0	C	A	C	B	A	C	C	B
RD042	New Motorway Kadikoy Branch Package	10.97	332.5	B	B	A	B	C	B	C	C

トルコ国イスタンブール市都市交通マスタープラン調査
最終報告書・要約

RD043	New Motorway Uskudar-Umraniye Package	20.75	360.0	B	B	C	B	B	A	A	B
RD044	New Motorway Umraniye-Tuzla Package	55.98	683.5	B	A	A	A	C	C	B	B
RD045	Widening of TEM Highway (Umraniye-Tuzla) Package	69.48	490.4	B	A	A	B	C	A	B	A
RD046	Widening of Connection road (TEM-D100) in Kartal	15.23	112.0	B	B	C	B	C	A	B	A
RD047	Kucucekmece Road Network Package	17.50	135.8	Z	A	B	A	C	A	B	C
RD048	Bahcesehir Road Network Package in Avclar	10.68	202.7	B	A	A	A	C	A	B	A
RD049	New Truck Route for Ambarli Port - Logistic Center(tunnel for about half length)	11.89	358.9	B	B	A	B	C	A	B	A
RD050	E-W Missing Linkage in Gungoren (tunnel)	1.10	57.4	A	B	C	B	C	A	B	B
RD051	N-S Missing Link in Bahcelievler (tunnel)	2.40	121.4	C	B	C	B	C	A	B	C
RD052	Connection Tunnel between Bosna Bulvari and Hatboyu St (tunnel)	1.13	52.4	A	B	C	B	C	A	A	C
RD053	Re-Construction of Ankara Road between Pendik and Baglanti Road (incl. 2km new road)	15.43	63.0	A	B	B	B	C	A	A	B
RD054	Connection Road between New Motorway and Uskudar Tunnel (50% tunnel)	4.06	123.9	A	B	C	B	C	A	B	C
RD055	Widening of Kennedy Street between Road Tunnel and Mustafa Kemal St. in Eminonu	1.93	38.2	A	A	B	B	C	A	A	A

(2) 鉄道

Code	Project	Length (km)	Project Cost (US\$ Mil)	Economic Return	Demand	Congestion Alleviation	Land Use	Financial Return	Environment		Non-Economic Aggregated
									Natural	Social	
RL001	Bagcilar - Halkali Light Metro (Extension of C-5 line)	7.5	493.7	A	A	B	B	A	A	B	A
RL002	Tekstilkent - Istoc - Olimpiyat Koyu - Bahcesehir (Ispartakule) Metro (Extension of D-2 line)	12.0	1196.8	B	A	A	B	C	A	B	A
RL003	Umraniye - Bostanci Metro	14.0	1225.4	C	B	B	B	C	A	B	B
RL004	Kartal - Pendik (S. Gokcen Airport) - Tuzla Metro (Extension of C-3)	18.1	1261.3	B	B	A	A	C	A	B	A
RL005	Seyrantepe - Alibeykoy - Gop - Kazlicesme Metro	19.5	1186.8	B	B	A	B	B	A	A	A
RL006	Kartal D-100 - Kartal IDO Monorail	3.0	94.3	C	C	C	B	C	A	A	C
RL007	S. Gokcen Airport - Formula 1 Monorail	7.7	242.2	A	C	B	A	C	A	A	B
RL008	Darusafaka - Cayirbasi Metro (Extension of C-4 line)	2.7	193.5	A	C	C	C	C	A	B	C
RL009	4. Levent - Gultepe Mah. - Sanayi Mah. - Celiktepe Mah. Monorail	8.6	248.0	A	C	B	B	C	A	B	C
RL010	Besiktas - Sariyer Metro	14.1	787.0	C	C	C	C	C	C	C	C
RL011	Ispartakule - Ambarli - Yakuplu Metro	10.5	1197.0	B	A	A	A	C	A	B	A
RL012	Ispartakule - Kirac - Buyukcekmece - Silivri Suburban Railway	25.8	1319.2	A	A	A	A	A	C	B	A
RL013	Uskudar - Beykoz Metro	15.0	881.0	C	C	C	C	C	C	C	C
RL014	Ikiteilli Olimpiyat Koyu - Altinsehir Metro (Extension of C-6 line)	13.0	932.0	B	B	C	B	C	B	B	C
RL015	Ataturk Airport Access Rail (Extension of Marmaray railway)	2.5	160.0	C	C	C	B	C	A	A	C
RL017	Seyrantepe - Bosphorus Crossing - Umraniye metro	9.8	816.2	B	B	A	B	B	C	C	C
RL018	Topkapi - 2nd Bosphorus Bridge - Goztepe AGT	8.6	776.4	C	B	B	B	B	A	A	A
RL019	Kadikoy - Ibrahimaga - Esensehir - Sabiha Gokcen Airport Metro	36.8	2364.8	C	B	A	A	C	A	B	A
RL020	Bakirkoy - Beylikpuzu Extension	1.0	65.8	B	A	C	A	A	A	B	A
RL021	Silivri - Gumusyaka Extension	48.9	2200.0	A	B	A	A	B	B	B	A
RL022	Halkali - Hadimkoy Suburban Railway (Extension of Marmaray Project)(Electrification)	20.4	536.0	A	A	A	B	A	B	A	A

出典: Study Team

Note 1: A; 環境影響は予測されない, B; 環境影響は予測される、若しくは、現時点では不明, C: 多大な環境影響が予測される

ランキング定義

評価基準		指標	A	B	C
経済的効果		Economic IRR	X>30%	30>X>15%	15%>X
需要		V-km/km	X>30000	30000-10000	10000<X
混雑緩和		ΔV/Q	X>2%	2>X>1%	1%>X
土地利用計画の実現に寄与		-	非常に寄与	かなり寄与	寄与なし
財務的収益性		Financial IRR	X>15%	15>X>5%	5%>X or No income
環境面の評価	自然	(SEA の結果)	影響なし	ある影響(+)	深刻な影響(++)
	社会	(SEA の結果)	影響なし	ある影響(+)	深刻な影響(++)
その他緊急性		-	緊急性の有無		

(2) マスタープラン交通網の道路プロジェクト

Project		Length (km)	Cost mill.US\$	Short-Term					Medium-Term					Long-Term					Beyond 2023 2024
Code	Name			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
RD001	Tophane - İplikci Tunnel	1.67	62.8																
RD002	Widening of Hatboyu street (Coastal road Linkage) in Ümraniye	8.07	195.2																
RD003	Bakırköy between D-100 Land Route (İncirli Junction) - Coastal Road (Ataköy Junction) underpass - flyover project	9.45	118.3																
RD004	Widening project between Kırac and Esenyurt construction road	2.83	9.4																
RD005	Between Hadimköy bridge- Yassıören road, road, junction project	9.23	28.6																
RD006	Beykoz, Miharabat Street-TEM Highway Linkage project	1.44	12.3																
RD007	Ümraniye, between Küçükörsenli junction- İsfalt association (Küçükörsenli street) road rehabilitation project	12.85	50.6																
RD008	Beylerbeyi - Harem Tunnel	4.15	210.0																
RD009	Beylerbeyi - Hekimbasi Tnel	3.09	175.8																
RD010	Kadıkoy - Moda Tunnel	1.03	48.4																
RD011	Tophane - Haskoy Tunnel	1.19	24.9																
RD012	Road Construction For W. Trade Center by Private Sector	9.24	40.3																
RD013	Küçükçekmece D-100 Highway Çobançeşme Junction - Olympics Road Linkage Road and Junction Project	26.54	291.8																
RD014	Yakuplu Kumcular Servis Road Project	7.29	24.5																
RD015	Derbent Hacıosman Tunnel Project	2.87	61.9														→ 2027		
RD016	Armutlualtı - Poligon Mah. Tunnel Project	2.68	68.1																
RD017	Armutlualtı - Ayazağa Tunnel Project	2.55	73.5																
RD018	Kuyumcu Kent - Otogar - Eyüp Tunnel Project	13.83	332.8														→ 2030		
RD019	Road rehabilitation project between Bağcılar, Malazgirt underpass-Mehmet Akif avenue (8.St-1/3St-1/13 St-2/13 St)	3.10	8.8																
RD020	Tuzla Formula-1 Road Network 6 numbered road project	5.70	25.0																
RD021	Link Road between Malazgirt Rd and Mahmat Akif Bulvarı	0.90	4.3																
RD022	Road project in Bakırköy,(D-100 Highway Sefaköy junction - airport A-14 Apron linkage road)	0.52	9.7																
RD023	Sultanbeyli Necip Fazıl street - Kartal TEM linkage road project	0.33	4.1																
RD024	Between Ümraniye Mandıra st - Bağ st road project	0.60	4.5																
RD025	New linkage road project between Ümraniye Karadeniz street - Mandıra street (continuous section of Hatboyu street)	0.21	4.5																
RD026	Kartal Şehit Ahmet Yalçın St - Arkoz St - Çavuşoğlu St, Adnan Kahveci Viaduct Linkage road junction project	2.02	12.7																
RD027	Ümraniye, between Şile Road Yenidoğan junction - Paşaköy junction road, junction implementation project	4.24	19.3																
RD028	Re-organizing The existing road in Ümraniye Çekmeköy Çavuşbaşı street according to the construction plan as 20m	2.49	7.5																
RD029	Kartal between Tekel street - D-100 road, junction implementation project	2.48	25.0																
RD030	Üsküdar between Zübeyde Hanım Street - Hekimbasi Çiftlik street construction roads implementation projects	1.34	13.8																
RD031	Beykoz , between Kavacık junction – Çekmeköy junction (Çavuşbaşı road) road, junction implementation project	11.10	31.6																
RD032	West Buyukçekmece Road Network Package	40.46	495.6																
RD033	East Silivri Road network Package	66.30	842.0																
RD034	Silivri Center Road network Package	74.57	827.2																
RD035	West Silivri (Port Area and University Area) Road Network Package	91.85	844.6																
RD037	Tuzla Center Road Network Package	58.51	477.7																
RD038	New Motorway west section Package	102.43	965.4																
RD039	New Motorway Kucukçekmece section Package	40.49	547.7																
RD040	New Motorway Kagithane section Package	17.30	520.5																
RD041	New Bosphorus Crossing	7.77	843.0																
RD042	New Motorway Kadıkoy Branch Package	10.97	332.5																
RD043	New Motorway Üsküdar-Ümraniye Package	20.75	360.0																
RD044	New Motorway Ümraniye-Tuzla Package	55.98	683.5																
RD045	Widening of TEM Highway (Ümraniye-Tuzla) Package	69.48	490.4																
RD046	Widening of Connection road (TEM-D100) in Kartal	15.23	112.0														→ 2026		
RD047	Kucukçekmece Road Network Package	17.50	135.8																
RD048	Bahçeşehir Road Network Package in Avclar	10.68	202.7																
RD049	New Truck Route for Ambarlı Port - Logistic Center(tunnel for about half length)	11.89	358.9																
RD050	E-W Missing Linkage in Gungoren (tunnel)	1.10	57.4																
RD051	N-S Missing Link inBahçelievler (tunnel)	2.40	121.4																
RD052	Connection Tunnel between Bosna Bulvarı and Hatboyu St (tunnel)	1.13	52.4																
RD053	Re-Construction of Ankara Road between Pendik and Bağlantı Road (incl. 2km new road)	15.43	63.0																
RD054	Connection Road between New Motorway and Üsküdar Tunnel (50% tunnel)	4.06	123.9																
RD055	Widening of Kennedy Street between Road Tunnel and Mustafa Kemal St. in Eminonu	1.93	38.2																
		893.25	11495.6														457		

■ : Detail Design and Land Acquisition
■ : Construction Period

(3) 基本交通網の鉄道プロジェクト

Code	Project Name	Length (km)	Cost (US\$ mill.)	Short-Term					Middle-Term					Long-Term						
				2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
C-1	Taksim - Yenikapi Metro (Extension of E-1)	5.2	468																	
C-2	Edirnekapi - Sultanciftligi Tramway (Extension to Topkapi and Habipler)	3.0	62																	
C-3	Kadikoy - Kartal Metro	21.7	1,547																	
C-4	4. Levent - Ayazoga - Darussafaka (Extension of E-1)	8.0	480																	
C-5	Otogar - Bafcalar (Kilazli) Light Metro	5.6	358																	
C-6	Bagcilar - Ikitelli - Olimpiyat Koyu Metro	15.9	1,069																	
C-7	Marmaray Project	76.5	3,000																	
C-8	Aksaray - Yenikapi (Extension of E-2)	0.7	42																	
T-1	Uskdar - Cekmekoy Light Metro	19.0	1,314																	
T-2	Bakirkoy - Beylikduzu Light Metro	25.0	1,464																	
D-1	Bakirkoy - Bahcelievler Bagacilar Metro (Extension of C-6)	9.0	710																	
D-2	Kabatas - Besiktas - Sisli - Giyimkent - Bagcilar Metro	25.0	1,912																	
D-3	Yenikapi - Bakirkoy Metro (Extension of E-1)	7.0	481																	
D-4	Halic - Cevresi Tramway	9.6	243																	
D-5	Yesilkoy - Ataturk Airport - Ikitelli Metro	14.3	1,130																	
D-6	Sishane - Kulakasz - Cemal kamaci Guzergahi Monorail	5.8	289																	
Total		251.3	14,569	10960					3609											

: Detail Design and Land Acquisition
 : Construction Period

(4) マスタープラン交通網の鉄道プロジェクト

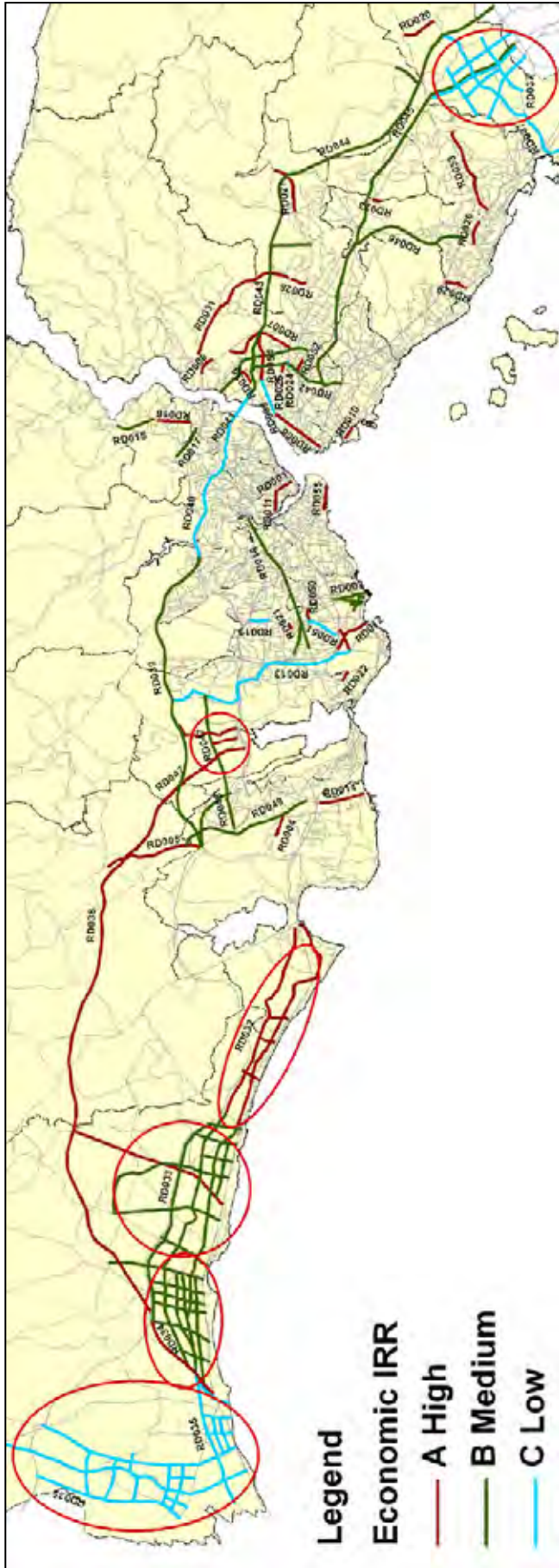
Code	Project Name	Length (km)	Cost (US\$ mill.)	Short-Term					Middle-Term					Long-Term					Beyond 2023	
				2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
RL001	Bagcilar - Halkali Light Metro (Extension of C-5 line)	7.5	494																	
RL002	Tekstikent - Istoc - Olimpiyat Koyu - Bahcesehir (Ispartakule) Metro (Extension of D-2 line)	12.0	1,197																	
RL003	Umraniye - Bostanci Metro	14.0	1,225																	
RL004	Kartal - Pendik (S. Gokcen Airport) - Tuzla Metro (Extension of C-3)	18.1	1,261																	
RL005	Seyrantepe - Alibeykoy - Gop - Kazlicesme Metro	19.5	1,187																	
RL006	Kartal D-100 - Kartal IDO Monorail	3.0	94																	
RL007	S. Gokcen Airport - Formula 1 Monorail	7.7	242																	
RL008	Darssafaka - Cayirbasi Metro (Extension of C-4 line)	2.7	193																	
RL009	4. Levent - Gultepe Mah. - Sanayi Mah. - Celiktepe Mah. Monorail	8.6	248																	2030
RL010	Besiktas - Sariyer Metro	14.1	787																	2030
RL011	Ispartakule - Ambarli - Yakuplu Metro	10.5	1,197																	2030
RL012-1	Ispartakule - Kirac - Buyukekmece - Silivri Suburban Railway (Phase 1)	15.8	651																	
RL012-2	Ispartakule - Kirac - Buyukekmece - Silivri Suburban Railway (Phase 2)	10.0	668																	
RL013	Uskdar - Beykoz Metro	15.0	881																	2030
RL014	Ikitelli Olimpiyat Koyu - Altinsehir Metro (Extension of C-6 line)	13.0	932																	2030
RL015	Ataturk Airport Access Rail (Extension of Marmaray railway)	2.5	160																	2028
RL017	Seyrantepe - Bosphorus Crossing - Bahcelievler.M metro	9.8	816																	
RL018	Sogutlucesme - Bahcelievler N. Metro	8.6	776																	
RL019	Kadikoy - Ibrahimaga - Esensehir - Sabiha Gokcen Airport Metro	36.8	2,365																	
RL022	Halkali - Hadimkoy Suburban Railway (Extension of Marmaray Project)	20.4	536																	
RL020	Bakirkoy - Beylukzudu Extension	1.0	66																	
RL021-1	Silivri - Gumusyaka Extension (Phase 1)	18.9	990																	
RL021-2	Silivri - Gumusyaka Extension (Phase 2)	30.0	1,210																	2029
Total		299.5	18,176	1,408					6,275					6,324					4,169	

: Detail Design and Land Acquisition
 : Construction Period

注：表中の総事業費には 2023 年以降に完成する事業の費用が含まれている。

付録 4 プロジェクトの位置図

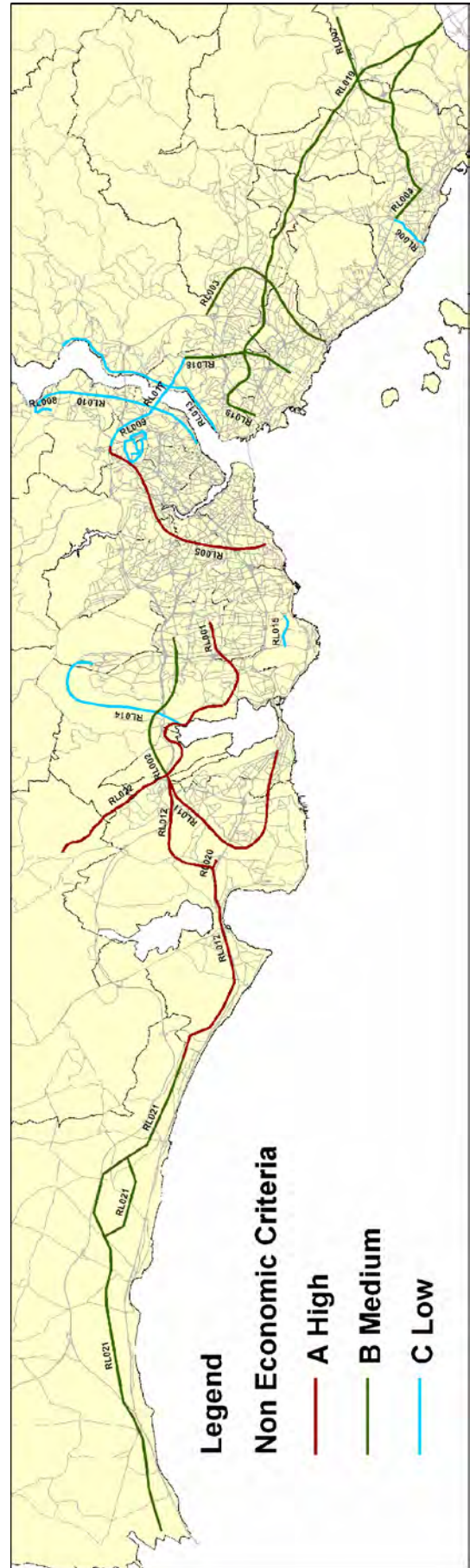
道路プロジェクトのランキング



道路整備スケジュール



鉄道プロジェクトのランキング



鉄道整備スケジュール

