

A19.8.4 Social Environmental Survey

1) Objectives and Method

(1) Objectives

The social survey was implemented to do IEE for proposed projects/programs by the local consulting firm in three priority areas of the Master Plan, Ulaanbaatar, Harhorin and Omnogovi, from December 1998 to January 1999. The main objectives were to identify the followings:

- positive and negative impacts of tourism development to local people/communities,
- attitude and acceptance of tourism development by the local people/communities, and
- potential human resource supply of local communities to tourism development.

(2) Method

Available data published by the related agencies regarding socio-economic activities were studied before interview surveys. Face to face interviews were implemented to the 342 samples (256 are married and 223 are nomads) in Ulaanbaatar area, 431 (158 and 276) in Harhorin and 231 (158 and 131) in Omnogovi as shown. A stratified random sampling method was applied for the selection of the samples to check the characteristics of the residents among those of the different geographical locations, nomadic area and city/town area. Interviews of the local governments and private tourism sector were carried out.

2) Summary of Survey Results

Ulaanbaatar Area

As shown in the table below, one of the major issues of the nomadic districts in Ulaanbaatar area was unemployment because the average unemployment rate of Nalaikh and Terej was 58.9 % of the total respondents. Equally at the family level major issues in nomadic area were pointed out unemployment and cash income. Tourism development, which is possible to generate job opportunities was supported by all nomadic respondents and 70 % of the respondents of tourist trail in Ulaanbaatar.

Education is also important for their life. Compared to other districts and areas, the educational level of Ulaanbaatar trail area's respondents was very high. 39.6 % of the total respondents was educated at the level of university/college and knew importance of education. Nevertheless only a few high-educated respondents exist in Terej and Underdov tourist camp districts, educational problem was selected because many respondents may be influenced by socio-culture of the capital routinely and hoped for finding work with good condition such as tourism sector.

30 % of the residents of Ulaanbaatar tourist trail area expected the following negative impacts by promotion of tourism development: increase of prices because of tourists paying higher rates for goods and services, increase of prostitution problems, and pollution of surrounding environment and the Tuul river.

Summary of Interview Survey in Ulaanbaatar Area

ULAANBAATAR AREA	Nomads / Herders				Residents in the tourist trail project area in UB	Total/Average
	Nalaikh	Terej	Uudenjov tourist camp	Sub-total/Average		
Number of respondents	49	109	65	223 /-	119	342 /-
Number of married person	39	86	52	177 /-	79	256 /-
Average family member (person)	7.0	7.8	7.3	7.4	5.6	6.9
Educational level						
- university /college	5	1	2	8 /-	46	54 /-
- secondary school	43	105	63	211 /-	70	281 /-
- uneducated	1	3	0	4 /-	0	4 /-
Unemployment rate (%)	67.9	50.0		- 158.9		
Average monthly income (Tg.)	30,000	30,000	25,000	- 128,333	35,000	- 130,000
Support rate on tourism development (%)	100	100	100	- 1100	70	- 192.5
Possibility on laborforce for tourist sector	yes	yes	yes		yes	
Major issues in the area *1	A/E	A/B	A/B		B/C	
Major issues for family *2	E/A	E/A	EC		B/C yes (30% of the respondents)	
Possibility on expected negative impacts from tourism development	no	no	no			

Note:

*1 A: unemployment, B: education, C: health, D: livestock, E: environmental degradation

*2 A: unemployment, B: education, C: health, D: livestock, E: cash income

Source: Social Environmental Survey implemented by the local consulting firm, January 1999

Harhorin

The respondent of all survey districts expressed unemployment related to poverty was major issue in community. Compared to the national average about 30 %, the unemployment rates of Hujirt and But-Ulziit are high, 45.2 % and 54.8 % respectively as shown in the table below. Though the rate is currently 20.4 % in Harhorin district, the rate is increasing rapidly, 7.9 % in 1995, 10.2 % in 1996, and 16.1 % in 1998. At the family level unemployment including cash income was major issue in all survey districts, too. Thus, generation of job opportunities, especially income generation for small livestock-nomads, is driven by necessity. 94 % of total respondents supported tourism development and 74.5 % of nomadic respondents and 87.5 % of town respondents were possible to work in tourism sector.

6 % of the respondents expected the negative impacts on pollution of surrounding environment and western influence through promotion of tourism development to the local people and their traditions.

Summary of Interview Survey in Harhorin Area

HARHORIN AREA	Nomads / Herders					Residents in the center of town			Total/Average
	Harhorin	Harbalgas	Hujirt	Burd	Sub-total/Average	Harhorin	Hujirt	Sub-total/Average	
		Khesho Tsaidam	Orkhon						
Number of respondents	122	49	56	49	276/-	107	49	156/-	431/-
Number of married person	35	20	22	18	60/-	45	19	64/-	158/-
Average family member (person)	7.9	7.0	7.9	7.0	7.4	7.6	6.4	7.0	7.3
Educational level									
- university / college	13	-	3	5	21/-	21	10	31/-	52/-
- secondary school	101	47	52	42	242/-	81	29	110/-	352/-
- uneducated	8	2	1	2	13/-	5	-	5/-	18/-
Unemployment rate (%)	20.4*	54.8	45.2	16.7	-/34.2	20.4*	54.8	-/37.6	
Average monthly income (Tg)	15,000	15,000	15,000	15,000	-/15,000	20,000	20,000	-/20,000	-/16,666
Support rate on tourism development (%)	yes (94 % of total respondents in Harhorin area)								
Possibility on laborforce for tourist sector (%)	90	70	65	73	-/74.5	85	90	-/87.5	-/78.8
Major issues in the area *1	A	A	A	A		A	A		
Major issues for family *2	A/E	A/E	AC	DE		A/B	EC		
Possibility on expected negative impacts (%) from tourism development	yes (6% of total respondents in Omnogovi area)								

Note:

*1 A: unemployment, B: education, C: health, D: livestock, E: environmental degradation

*2 A: unemployment, B: education, C: health, D: livestock, E: cash income

* the figure is the average of nomadic area and Harhorin-town.

Source: Social Environmental Survey implemented by the local consulting firm, January 1999

Omnogovi

The table showed health problem was major issue in the whole Omnogovi area because not a few people in both rural area and Dalanzadgad town had gastrointestinal health problems due to the inappropriate treatment of underground water and insanitary food supply.

Economic factors, livestock and cash income, in rural area and unemployment in the town were pointed out as well. All respondents supported tourism development and were possible to work in tourism sector. They wanted to get better cash income in tourism sector because average monthly income Tg.12,500 in Omnogovi was lower than that of the other areas, Tg.16,666 in Harhorin and Tg.30,000 in Ulaanbaatar area.

The respondents in Omnogovi area did not expect major negative impacts on local people and community from tourism development.

Summary of Interview Survey in Omnogobi Area

OMNOGOBI AREA	Nomads / Herders	Residents in the center part of Dalarzadgad	Total/Average
	Yol valley, Bayanzag, Guvansaikhan		
Number of respondents	131	100	231 / -
Number of married person	71	44	115 / -
Average family member (person)	9.4	7.3	8.3
Educational level			
- university / college	3	13	16 / -
- secondary school	125	80	205 / -
- uneducated	3	7	10 / -
Unemployment rate (%)	5.6% (Average of Omnogobi Aimag)		
Average monthly income (Tg.)	10,000	15,000	- / 12,500
Support rate on tourism development (%)	100	100	- / 100
Possibility on laborforce for tourist sector	yes	yes	
Major issues in the area *1	C/D	A/C	
Major issues for family *2	C/E	C/A	
Possibility on expected negative impacts from tourism development	no	no	

Note:

*1 A: unemployment, B: education, C: health, D: livestock, E: environmental degradation

*2 A: unemployment, B: education, C: health, D: livestock, E: cash income

Source: Social Environmental Survey implemented by the local consulting firm, January 1999

A19.9 Cost of the Priority Projects and Programs

Table A19.1 Detailed Development Cost of Priority Projects (1/2)

Priority Projects	Development Cost	
	(million Tg)	equivalent to (US\$1,000)
1 Culture Tourism Enhancement		
B-1 Improvement of Bogd Khan Museum	1,293	1,486
1 Restoration of Winter Palace	486	559
2 Restoration of costume storage building	41	47
3 Restoration and renewal of palisade & wall	47	54
4 Construction of new service, office storage building	229	263
5 Improvement of pavement and square	27	31
6 Restoration of temple building	452	520
7 Construction of interpretation board	10	12
B-2 Mongolian Culture Park	2,538	2,917
1 Central museum	747	859
a Building	407	468
b Display & equipment	340	391
2 Management office	221	254
3 Symbolic ger	28	32
4 Gers	896	1,030
a Building	396	455
b Display	500	575
5 Landscape, facility, utility. etc.	646	742
B-3 Erdenezuu Surrounding Improvement	151	174
1 Landscape	40	46
2 Planting	7	8
3 Pedestrian deck	69	79
4 Car parking, etc.	36	41
B-4 Harhorin Visitor Center	3,644	4,188
1 Building	1,543	1,774
2 Display & equipment	1,829	2,102
3 Landscape, facility, utility. etc.	271	312
2 Development of Gateway Tourism in UB		
B-5 UB Tourist Trail Development	187	215
1 Guide board, sign, etc.	39	45
2 Construction of new trail	34	39
3 Improvement of trail	74	85
4 Construction of information center	40	46
B-6 UB Tourist Street	514	591
1 Tourist plaza	163	187
2 Pedestrian precinct (east)	25	29
3 Pedestrian precinct (west)	326	375
B-7 UB Souvenir and Handicraft Center	420	483
1 Building	360	414
2 Landscape, facility, utility. etc.	60	69

Table A19.9.1 Detailed Development Cost of Priority Projects (2/2)

Priority Projects	Development Cost	
	(million Tg)	equivalent to (US\$1,000)
3 Nature Tourism Development		
B-8 Terej Visitor Center	261	300
1 Building	48	55
2 Display & equipment	104	120
3 Landscape, facility, utility. etc.	109	125
B-9 Govi Visitor Center	611	702
1 Building	280	322
2 Display & equipment	151	174
3 Ger	8	9
4 Landscape, facility, utility. etc.	171	197
B-10 Bird Watching Site Preparation (UB & Harhorin)	27	31
1 UB	11	13
2 Harhorin	16	18
4 Others		
B-11 Harhorin Tourist Road	2,297	2,640
1 Harhorin - Khar Balgas (30km)	757	870
2 Harhorin - Khoshoo Tssaidam (47km)	1,540	1,770
B-12 Traffic Sign Facilities along UB-Harhorin Highway	6	7
B-13 Upgrading of Major Spas	1,629	1,872
1 UB spa	974	1,120
2 Hujirt spa	151	174
3 Shargaljuut spa	503	578
3 Private Project		
C-1 Rest Areas along UB-Harhorin Highway (per 1 set)	490	563
1 Restaurant	185	213
2 Toilet	49	57
3 Gas station	174	200
4 Others	82	94
(213+56) x 2 rest areas=540		
C-2 Upgrading of Ger Camp	1,375	1,580
1 Upgrading of existing camp facility (9 camps)	731	840
2 Assistance to new ger camp (8 camps)	644	740
C-3 South Govi Air Strip Improvement	572	657
C-4 Horse park	867	997
1 Building (ger, training school, museum, restaurant, etc.)	532	612
2 Display & equipment	53	61
3 Landscape, facility, utility. etc.	47	54
4 Others (inclusive of horses)	235	270

A20.1 Methodology of the Economic Evaluation
A20.1.1 Projection of Economic Benefits from the Priority Programs and Projects

Table A20.1.1 Economic Benefit Generation (Conservative Case) (1/19)

Country/Region	1997						1997						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas	301	17.0	5,124	173	886,506	2,216,264	301	17.0	5,124	173	886,506	2,216,264	0
USA	1,857	17.0	31,565	173	5,460,672	13,651,681	1,857	17.0	31,565	173	5,460,672	13,651,681	0
East Asia/Pacific	644	7.0	4,505	137	617,117	1,542,791	644	7.0	4,505	137	617,117	1,542,791	0
Japan	9,748	8.0	77,982	180	14,036,774	35,091,936	9,748	8.0	77,982	180	14,036,774	35,091,936	0
Korea rep	1,285	7.0	8,993	137	1,231,989	3,079,972	1,285	7.0	8,993	137	1,231,989	3,079,972	0
China	65	7.0	455	50	22,750	56,875	65	7.0	455	50	22,750	56,875	0
Australia	371	15.0	5,572	111	618,514	1,546,286	371	15.0	5,572	111	618,514	1,546,286	0
Cent/East Europe	939	7.0	6,573	113	742,796	1,856,991	939	7.0	6,573	113	742,796	1,856,991	0
Russian Fed	9	6.5	57	69	3,906	9,764	9	6.5	57	69	3,906	9,764	0
Northern Europe	1,535	15.0	23,018	111	2,554,943	6,387,356	1,535	15.0	23,018	111	2,554,943	6,387,356	0
UK	799	15.0	11,986	103	1,234,517	3,086,292	799	15.0	11,986	103	1,234,517	3,086,292	0
Southern Europe	826	15.0	9,397	111	1,043,039	2,607,598	826	15.0	9,397	111	1,043,039	2,607,598	0
Western Europe	868	15.0	13,027	111	1,445,969	3,614,923	868	15.0	13,027	111	1,445,969	3,614,923	0
France	1,271	18.0	22,882	111	2,539,858	6,349,644	1,271	18.0	22,882	111	2,539,858	6,349,644	0
Germany	1,469	13.0	19,099	109	2,081,800	5,204,499	1,469	13.0	19,099	109	2,081,800	5,204,499	0
Switzerland	598	15.0	8,976	111	996,336	2,490,840	598	15.0	8,976	111	996,336	2,490,840	0
East/Med Europe	122	15.5	1,887	120	226,418	566,045	122	15.5	1,887	120	226,418	566,045	0
Middle East	23	15.5	361	120	43,357	108,392	23	15.5	361	120	43,357	108,392	0
South Asia	186	15.5	2,890	137	395,990	989,976	186	15.5	2,890	137	395,990	989,976	0
Africa	30	15.5	465	120	55,744	139,361	30	15.5	465	120	55,744	139,361	0
	22,747		254,812		36,238,994	90,597,485	22,747		254,812		36,238,994	90,597,485	0

Source: JICA Study Teams

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Country/Region	1997						1997						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas													
USA	301	17.0	5,124	173	886,506	2,216,264	301	17.0	5,124	173	886,506	2,216,264	0
	1,857	17.0	31,565	173	5,460,672	13,651,681	1,857	17.0	31,565	173	5,460,672	13,651,681	0
East Asia/Pacific													
Japan	644	7.0	4,505	137	617,117	1,542,791	644	7.0	4,505	137	617,117	1,542,791	0
	9,748	8.0	77,982	180	14,036,774	35,091,936	9,748	8.0	77,982	180	14,036,774	35,091,936	0
Korea rep	1,285	7.0	8,993	137	1,231,989	3,079,972	1,285	7.0	8,993	137	1,231,989	3,079,972	0
China	65	7.0	455	50	22,750	56,875	65	7.0	455	50	22,750	56,875	0
Australia	371	15.0	5,572	111	618,514	1,546,286	371	15.0	5,572	111	618,514	1,546,286	0
Cent/East Europe													
Russian Fed	939	7.0	6,573	113	742,796	1,856,991	939	7.0	6,573	113	742,796	1,856,991	0
	9	6.5	57	69	3,906	9,764	9	6.5	57	69	3,906	9,764	0
Northern Europe													
UK	1,535	15.0	23,018	111	2,554,943	6,387,356	1,535	15.0	23,018	111	2,554,943	6,387,356	0
	799	15.0	11,986	103	1,234,517	3,086,292	799	15.0	11,986	103	1,234,517	3,086,292	0
Southern Europe													
Western Europe	626	15.0	9,397	111	1,043,039	2,607,598	626	15.0	9,397	111	1,043,039	2,607,598	0
	868	15.0	13,027	111	1,445,969	3,614,923	868	15.0	13,027	111	1,445,969	3,614,923	0
France	1,271	18.0	22,882	111	2,539,858	6,349,644	1,271	18.0	22,882	111	2,539,858	6,349,644	0
Germany	1,469	13.0	19,099	109	2,081,800	5,204,499	1,469	13.0	19,099	109	2,081,800	5,204,499	0
Switzerland	598	15.0	8,976	111	996,336	2,490,840	598	15.0	8,976	111	996,336	2,490,840	0
East/Med Europe													
Middle East	122	15.5	1,887	120	226,418	566,045	122	15.5	1,887	120	226,418	566,045	0
	23	15.5	361	120	43,357	108,392	23	15.5	361	120	43,357	108,392	0
South Asia	186	15.5	2,890	137	395,990	989,976	186	15.5	2,890	137	395,990	989,976	0
	30	15.5	465	120	55,744	139,361	30	15.5	465	120	55,744	139,361	0
Africa													
	22,747		254,812		36,238,994	90,597,485	22,747		254,812		36,238,994	90,597,485	0

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (2/19)

Country/Region	1998						1998						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas													
USA	347	17.0	5,893	173	1,019,481	2,548,704	2,235	17.0	37,999	173	6,573,873	16,434,683	0
East Asia/Pacific													
Japan	603	7.0	4,220	137	578,114	1,445,285	603	7.0	4,220	137	578,114	1,445,285	0
Korea rep	9,240	8.0	73,920	180	13,305,600	33,264,000	9,240	8.0	73,920	180	13,305,600	33,264,000	0
China	1,263	7.0	8,839	137	1,210,968	3,027,419	1,263	7.0	8,839	137	1,210,968	3,027,419	0
Australia	65	7.0	455	50	22,750	56,875	65	7.0	455	50	22,750	56,875	0
	427	15.0	6,410	111	711,538	1,778,844	427	15.0	6,410	111	711,538	1,778,844	0
Cent/East Europe													
Russian Fed	777	7.0	5,438	113	614,449	1,536,122	777	7.0	5,438	113	614,449	1,536,122	0
	9	6.5	57	69	3,921	9,803	9	6.5	57	69	3,921	9,803	0
Northern Europe													
UK	1,809	15.0	27,130	111	3,011,444	7,528,610	1,809	15.0	27,130	111	3,011,444	7,528,610	0
	1,034	15.0	15,508	103	1,597,369	3,993,423	1,034	15.0	15,508	103	1,597,369	3,993,423	0
Southern Europe													
Western Europe	764	15.0	11,466	111	1,272,755	3,181,888	764	15.0	11,466	111	1,272,755	3,181,888	0
	999	15.0	14,981	111	1,662,865	4,157,162	999	15.0	14,981	111	1,662,865	4,157,162	0
France	1,462	18.0	26,314	111	2,920,836	7,302,091	1,462	18.0	26,314	111	2,920,836	7,302,091	0
	1,890	15.0	24,572	109	2,678,300	6,695,750	1,890	15.0	24,572	109	2,678,300	6,695,750	0
Germany	732	15.0	10,982	111	1,219,046	3,047,616	732	15.0	10,982	111	1,219,046	3,047,616	0
Switzerland													
East/Med Europe													
Middle East	127	15.5	1,961	120	235,364	588,411	127	15.5	1,961	120	235,364	588,411	0
	24	15.5	379	120	45,421	113,553	24	15.5	379	120	45,421	113,553	0
South Asia													
Africa	194	15.5	3,005	137	411,704	1,029,260	194	15.5	3,005	137	411,704	1,029,260	0
	31	15.5	482	120	57,809	144,522	31	15.5	482	120	57,809	144,522	0
	24,031		280,011		39,153,608	97,884,021	24,031		280,011		39,153,608	97,884,021	0

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (2/19)

Country/Region	1998						1998						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	AUS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitΔ2.5	Leisure Tourist	AUS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitΔ2.5	Economic Benefit
Americas	347	17.0	5,893	173	1,019,481	2,548,704	347	17.0	5,893	173	1,019,481	2,548,704	0
USA	2,235	17.0	37,999	173	6,573,873	16,434,683	2,235	17.0	37,999	173	6,573,873	16,434,683	0
East Asia/Pacific	603	7.0	4,220	137	578,114	1,445,285	603	7.0	4,220	137	578,114	1,445,285	0
Japan	9,240	8.0	73,920	180	13,305,600	33,264,000	9,240	8.0	73,920	180	13,305,600	33,264,000	0
Korea rep	1,263	7.0	8,839	137	1,210,968	3,027,419	1,263	7.0	8,839	137	1,210,968	3,027,419	0
China	65	7.0	455	50	22,750	56,875	65	7.0	455	50	22,750	56,875	0
Australia	427	15.0	6,410	111	711,538	1,778,844	427	15.0	6,410	111	711,538	1,778,844	0
Gen/East Europe	777	7.0	5,438	113	614,449	1,536,122	777	7.0	5,438	113	614,449	1,536,122	0
Russian Fed	9	6.5	57	69	3,921	9,803	9	6.5	57	69	3,921	9,803	0
Northern Europe	1,809	15.0	27,130	111	3,011,444	7,528,610	1,809	15.0	27,130	111	3,011,444	7,528,610	0
UK	1,034	15.0	15,508	103	1,597,369	3,993,423	1,034	15.0	15,508	103	1,597,369	3,993,423	0
Southern Europe	764	15.0	11,466	111	1,272,755	3,181,888	764	15.0	11,466	111	1,272,755	3,181,888	0
Western Europe	999	15.0	14,981	111	1,662,865	4,157,162	999	15.0	14,981	111	1,662,865	4,157,162	0
France	1,462	18.0	26,314	111	2,920,836	7,502,091	1,462	18.0	26,314	111	2,920,836	7,502,091	0
Germany	1,890	13.0	24,572	109	2,678,300	6,695,750	1,890	13.0	24,572	109	2,678,300	6,695,750	0
Switzerland	732	15.0	10,982	111	1,219,046	3,047,616	732	15.0	10,982	111	1,219,046	3,047,616	0
East/Med Europe	127	15.5	1,961	120	235,364	588,411	127	15.5	1,961	120	235,364	588,411	0
Middle East	24	15.5	379	120	45,421	113,553	24	15.5	379	120	45,421	113,553	0
South Asia	194	15.5	3,005	137	411,704	1,029,260	194	15.5	3,005	137	411,704	1,029,260	0
Africa	31	15.5	482	120	57,809	144,522	31	15.5	482	120	57,809	144,522	0
	24,031		280,011		39,153,608	97,884,021	24,031		280,011		39,153,608	97,884,021	0

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (3/19)

Country/Region	1999						1999						
	With project/program			Without project/program			Without project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas													
USA	399	17.0	6,784	170	1,160,051	2,875,263	379	17.0	6,444	173	1,114,898	2,787,245	38,018
	4,518	17.0	6,806	170	1,321,689	32,554,223	4,292	17.0	72,966	173	12,623,066	31,557,665	996,558
East Asia/Pacific													
Japan	656	7.0	4,595	134	616,870	1,542,174	624	7.0	4,366	137	597,986	1,494,965	47,209
Korea rep	1,140	8.0	113,443	176	20,011,268	50,028,169	13,471	8.0	107,770	180	19,398,678	48,496,694	1,531,475
China	1,342	7.0	9,391	134	1,260,963	3,152,156	1,275	7.0	8,922	137	1,222,265	3,055,662	36,495
	65	7.0	435	49	22,295	55,738	62	7.0	432	50	21,613	54,031	1,706
Australia	491	15.0	7,370	109	801,752	2,004,380	467	15.0	7,002	111	777,209	1,943,022	61,559
Cen/East Europe													
Russian Fed	866	7.0	6,060	111	671,035	1,677,586	822	7.0	5,757	113	650,493	1,626,232	51,355
	9	6.5	57	68	3,858	9,645	8	6.5	54	69	3,740	9,350	295
Northern Europe													
UK	2,060	15.0	30,893	109	3,360,486	8,401,215	1,957	15.0	29,348	111	3,257,614	8,144,035	257,180
	1,257	15.0	18,830	101	1,902,679	4,756,697	1,194	15.0	17,907	103	1,844,433	4,611,083	145,613
Southern Europe	849	15.0	12,733	109	1,585,069	3,462,671	806	15.0	12,096	111	1,342,668	3,356,671	106,090
Western Europe	1,148	15.0	17,276	109	1,873,844	4,684,611	1,091	15.0	16,365	111	1,816,482	4,541,204	143,406
France	1,681	18.0	30,265	109	3,292,248	8,230,621	1,597	18.0	28,752	111	3,191,465	7,978,663	251,958
Germany	2,076	13.0	26,990	107	2,883,080	7,207,701	1,972	13.0	25,641	109	2,794,823	6,987,057	220,644
Switzerland	481	15.0	13,222	109	1,438,262	3,595,655	437	15.0	12,561	111	1,394,234	3,485,584	110,071
East/Med Europe													
Middle East	131	15.5	2,036	118	239,425	594,562	125	15.5	1,934	120	232,095	580,239	18,329
South Asia	25	15.5	390	118	45,862	114,654	24	15.5	370	120	44,458	111,144	3,510
Africa	202	15.5	3,126	154	419,640	1,049,099	192	15.5	2,969	137	406,794	1,016,984	32,115
	33	15.5	505	118	59,350	148,376	31	15.5	479	120	57,534	143,834	4,542
	32,869		381,194		54,459,679	136,149,197	31,226		362,134		52,792,546	131,981,265	4,167,853

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (3/19)

Country/Region	1999						1999						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit X 2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit X 2.5	Economic Benefit
Americas	399	17.0	6,784	170	1,150,105	2,875,263	399	17.0	6,444	173	1,114,898	2,787,245	88,018
USA	4,518	17.0	76,806	170	13,021,689	32,556,223	4,292	17.0	72,966	173	12,623,066	31,557,665	996,558
East Asia/Pacific	656	7.0	4,595	134	616,870	1,542,174	624	7.0	4,365	137	597,986	1,494,965	47,209
Japan	14,180	8.0	113,443	176	20,011,268	50,028,169	13,471	8.0	107,770	180	19,398,678	48,496,694	1,531,475
Korea rep	1,342	7.0	9,391	134	1,260,863	3,152,156	1,275	7.0	8,922	137	1,222,265	3,055,662	96,495
China	65	7.0	455	49	22,295	55,738	62	7.0	452	50	21,613	54,031	1,706
Australia	491	15.0	7,370	109	801,752	2,004,380	467	15.0	7,002	111	777,209	1,943,022	61,359
Cent/East Europe	866	7.0	6,060	111	671,035	1,677,386	822	7.0	5,757	113	650,493	1,626,232	51,255
Russian Fed	9	6.5	57	68	3,858	9,645	8	6.5	54	69	3,740	9,356	295
Northern Europe	2,060	15.0	30,893	109	3,260,486	8,401,215	1,957	15.0	29,348	111	3,257,614	8,144,035	257,180
UK	1,257	15.0	18,850	101	1,902,679	4,756,697	1,194	15.0	17,907	103	1,844,433	4,611,083	145,613
Southern Europe	849	15.0	12,733	109	1,385,069	3,462,671	806	15.0	12,096	111	1,342,668	3,356,671	106,000
Western Europe	1,148	15.0	17,236	109	1,873,844	4,684,611	1,091	15.0	16,365	111	1,816,482	4,541,204	143,406
France	1,681	18.0	30,265	109	3,292,248	8,230,621	1,597	18.0	28,752	111	3,191,465	7,978,663	251,958
Germany	2,076	13.0	26,990	107	2,883,080	7,207,701	1,972	13.0	25,641	109	2,794,823	6,987,057	220,644
Switzerland	881	15.0	13,222	109	1,438,262	3,595,655	837	15.0	12,561	111	1,394,234	3,485,584	110,071
East/Med Europe	131	15.5	2,036	118	239,425	598,562	125	15.5	1,934	120	232,095	580,239	18,223
Middle East	25	15.5	390	118	45,862	114,654	24	15.5	370	120	44,458	111,144	3,510
South Asia	202	15.5	3,126	134	419,640	1,049,099	192	15.5	2,969	137	406,794	1,016,984	32,115
Africa	33	15.5	505	118	59,350	148,376	31	15.5	479	120	57,534	143,834	4,542
	32,869		381,194		54,459,679	136,149,197	31,226		362,134		52,792,546	131,981,265	4,167,833

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (4/19)

Country/Region	2000 With project/program						2000 Without project/program						
	Leisure Tourist	ALS	Tourist- night	Expenditure	Direct Benefit	Direct Benefit/ALS	Leisure Tourist	ALS	Tourist- Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas USA	459 6,544	17.0 17.0	7,800 77,256	166 166	1,295,926 12,835,993	3,239,814 32,089,982	431 4,272	17.0 17.0	7,332 72,620	173 173	1,268,399 12,563,341	3,170,996 31,408,354	68,637 681,628
East Asia/Pacific Japan	663 16,407	7.0 8.0	4,641 130,458	132 173	610,639 22,552,577	1,526,397 46,381,442	623 15,329	7.0 8.0	4,363 122,631	197 180	597,668 22,073,534	1,494,170 55,183,836	33,427 1,197,607
Korea rep	1,371	7.0	9,599	132	1,262,944	3,157,361	1,289	7.0	9,023	137	1,236,118	3,090,295	87,066
China	65	7.0	455	48	21,849	54,623	61	7.0	428	50	21,385	53,463	1,160
Australia	765	15.0	11,475	107	1,223,269	3,058,174	719	15.0	10,786	111	1,197,286	2,993,215	64,959
Cent/East Europe Russian Fed	906 9	7.0 6.5	6,344 57	109 66	688,333 3,796	1,721,332 9,490	852 8	7.0 6.5	5,964 54	113 69	673,907 3,715	1,684,769 9,289	36,563 202
Northern Europe UK	2,474 1,698	15.0 15.0	37,105 25,475	107 99	3,955,510 2,520,057	9,888,824 6,300,143	2,325 1,596	15.0 15.0	34,878 23,947	111 103	3,871,510 2,466,528	9,678,774 6,166,321	210,050 133,822
Southern Europe	1,023	15.0	15,347	107	1,636,084	4,090,211	962	15.0	14,426	111	1,601,332	4,003,330	86,681
Western Europe	1,421	15.0	21,308	107	2,271,553	5,678,883	1,335	15.0	20,030	111	2,223,303	5,558,257	120,626
France	1,933	18.0	34,801	107	3,709,961	9,274,903	1,817	18.0	32,713	111	3,631,157	9,077,893	197,010
Germany	2,320	13.0	30,159	105	3,157,149	7,892,871	2,181	13.0	28,349	109	3,090,087	7,725,218	167,654
Switzerland	1,036	15.0	15,544	107	1,657,032	4,142,580	974	15.0	14,611	111	1,621,835	4,054,587	87,593
East/Med Europe Middle East	137 26	15.5 15.5	2,122 407	115 115	244,550 46,927	611,376 1,173,138	129 25	15.5 15.5	1,995 383	120 120	239,356 45,930	598,390 1,148,826	12,986 2,492
South Asia	210	15.5	3,252	132	427,848	1,069,619	197	15.5	3,057	137	418,760	1,046,899	22,720
Africa	34	15.5	522	115	60,146	150,366	32	15.5	491	120	58,869	147,172	3,194
	37,402		434,127		60,182,363	150,455,908	35,158		408,080		58,904,021	147,260,052	3,195,856

Source: JICA Study Teams

Table A20.1.1: Economic Benefit Generation (Conservative Case) (4/19)

Country/Region	2000						2000						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas	459	17.0	7,800	166	1,295,926	3,239,814	31	17.0	7,332	173	1,268,999	3,170,996	68,817
USA	4,544	17.0	77,256	166	12,835,993	32,089,982	4,222	17.0	72,020	173	12,563,341	31,408,354	681,628
East Asia/Pacific	663	7.0	4,641	132	610,639	1,526,597	623	7.0	4,363	137	597,668	1,494,170	32,427
Japan	16,307	8.0	130,458	173	22,552,577	56,381,442	15,329	8.0	122,631	180	22,073,534	55,183,836	1,197,607
Korea rep	1,371	7.0	9,599	132	1,262,944	3,157,361	1,289	7.0	9,023	137	1,236,118	3,090,295	67,066
China	65	7.0	455	48	21,849	54,623	61	7.0	428	50	21,385	53,463	1,166
Australia	765	15.0	11,475	107	1,223,269	3,058,174	719	15.0	10,786	111	1,197,286	2,993,215	64,959
Cent/East Europe	906	7.0	6,344	109	688,533	1,721,332	852	7.0	5,964	115	673,907	1,684,769	36,563
Russian Fed	9	6.5	57	66	3,796	9,490	8	6.5	54	69	3,715	9,289	202
Northern Europe	2,474	15.0	37,105	107	3,955,530	9,888,824	2,325	15.0	34,878	111	3,871,510	9,678,774	210,050
UK	1,698	15.0	25,475	99	2,520,057	6,300,143	1,506	15.0	23,947	105	2,466,528	6,166,321	133,822
Southern Europe	1,023	15.0	15,347	107	1,636,084	4,090,211	962	15.0	14,426	111	1,601,332	4,003,330	86,881
Western Europe	1,421	15.0	21,308	107	2,271,553	5,678,883	1,335	15.0	20,030	115	2,223,503	5,558,257	120,626
France	1,933	18.0	34,801	107	3,709,961	9,274,903	1,817	18.0	32,713	111	3,631,157	9,077,893	197,010
Germany	2,320	13.0	30,159	105	3,157,149	7,892,871	2,181	13.0	28,349	109	3,090,087	7,725,218	167,654
Switzerland	1,036	15.0	15,544	107	1,657,032	4,142,580	974	15.0	14,611	111	1,621,835	4,054,587	87,992
East/Med Europe	137	15.5	2,122	115	244,550	611,376	129	15.5	1,995	120	239,256	598,390	12,989
Middle East	26	15.5	407	115	46,927	117,318	25	15.5	383	120	45,930	114,826	2,492
South Asia	210	15.5	3,252	132	427,848	1,069,619	197	15.5	3,057	137	418,760	1,046,899	22,720
Africa	34	15.5	522	115	60,146	150,366	32	15.5	491	120	58,869	147,172	3,194
	37,402		434,127		60,182,363	150,455,908	35,158		408,080		58,904,021	147,260,052	3,195,856

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (5/19)

Country/Region	2001						2001						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit%LS	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit%LS	Economic Benefit
Americas	599	17.0	10,190	163	1,689,250	4,148,124	553	17.0	9,406	173	1,627,179	4,067,946	80,178
USA	4,726	17.0	30,345	163	13,082,237	32,705,844	4,362	17.0	74,159	173	12,829,473	32,073,683	632,161
East Asia/Pacific	768	6.5	4,900	129	643,408	1,608,521	709	6.5	4,606	137	630,972	1,577,430	31,091
Japan	19,201	7.5	141,009	169	24,397,272	60,992,180	17,723	7.5	132,921	180	23,925,705	59,814,263	1,178,918
Korea rep	1,494	6.5	9,712	129	1,252,244	3,130,610	1,379	6.5	8,964	137	1,228,040	3,070,099	60,511
China	67	6.5	436	47	20,404	51,236	62	6.5	402	50	20,098	50,246	990
Australia	783	15.0	11,740	104	1,226,542	3,066,354	722	15.0	10,836	111	1,202,834	3,007,085	59,269
Cent/East Europe	1,120	7.0	7,843	106	834,096	2,083,241	1,034	7.0	7,239	113	817,974	2,044,936	40,505
Russian Fed	9	6.5	60	65	3,906	9,766	9	6.5	56	69	3,831	9,577	189
Northern Europe	3,971	15.0	43,817	104	4,577,689	11,444,224	2,696	15.0	40,443	111	4,489,209	11,223,022	221,202
UK	1,908	15.0	28,618	97	2,774,270	6,935,674	1,761	15.0	26,414	103	2,720,647	6,801,617	134,057
Southern Europe	250	15.0	18,752	104	1,959,091	4,897,727	1,154	15.0	17,308	111	1,921,224	4,803,061	94,667
Western Europe	1,675	15.0	25,118	104	2,624,162	6,560,404	1,546	15.0	23,184	111	2,573,440	6,433,600	126,804
France	1,297	18.0	41,350	104	4,319,888	10,799,721	2,120	18.0	38,166	111	4,236,391	10,590,976	208,744
Germany	2,973	13.0	38,646	103	3,964,678	9,911,695	2,744	13.0	35,670	109	3,888,046	9,720,115	191,580
Switzerland	211	15.0	18,158	104	1,896,956	4,742,390	1,117	15.0	16,759	111	1,860,290	4,650,726	91,664
East/Med Europe	142	15.5	2,202	113	248,728	621,819	131	15.5	2,033	120	243,920	609,800	12,019
Middle East	27	15.5	424	113	47,932	119,830	25	15.5	392	120	47,005	117,514	2,316
South Asia	218	15.5	3,384	129	436,299	1,090,748	201	15.5	3,123	137	427,866	1,069,665	21,083
Africa	36	15.5	551	113	62,182	155,455	33	15.5	508	120	60,980	152,450	3,005
	43,425		490,344		66,031,425	163,078,561	40,082		452,588		64,755,124	161,887,810	3,190,751

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (5/19)

Country/Region	2001						2001						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit X2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit X2.5	Economic Benefit
Americas	599	17.0	10,190	163	1,659,250	4,148,124	553	17.0	9,436	173	1,627,179	4,067,946	80,178
USA	4,726	17.0	80,345	163	13,082,337	32,705,844	4,362	17.0	74,189	173	12,829,473	32,073,683	632,161
East Asia/Pacific	768	6.5	4,990	129	643,408	1,608,521	709	6.5	4,608	137	639,972	1,577,430	31,091
Japan	19,201	7.5	144,009	169	24,397,272	60,993,180	17,721	7.5	132,921	180	23,925,705	59,814,263	1,178,918
Korea rep	1,494	6.5	9,712	129	1,252,244	3,130,610	1,379	6.5	8,964	137	1,228,040	3,070,099	60,511
China	67	6.5	436	47	20,494	51,236	62	6.5	402	50	20,098	50,246	990
Australia	783	15.0	11,740	104	1,226,542	3,066,354	722	15.0	10,836	111	1,202,834	3,007,085	59,269
Gen/East Europe	1,120	7.0	7,843	106	834,056	2,085,241	1,034	7.0	7,239	113	817,974	2,044,936	40,305
Russian Fed	9	6.5	60	65	3,906	9,766	0	6.5	56	69	3,831	9,577	189
Northern Europe	2,921	15.0	43,817	104	4,577,689	11,444,224	2,696	15.0	40,443	111	4,489,209	11,223,022	221,202
UK	1,908	15.0	28,618	97	2,774,270	6,935,674	1,761	15.0	26,414	103	2,720,647	6,801,617	134,057
Southern Europe	1,250	15.0	18,752	104	1,959,091	4,897,727	1,154	15.0	17,308	111	1,921,224	4,803,061	94,667
Western Europe	1,675	15.0	25,118	104	2,624,162	6,560,404	1,536	15.0	23,184	111	2,573,440	6,433,600	126,304
France	2,297	18.0	41,350	104	4,319,888	10,799,721	2,120	18.0	38,166	111	4,236,391	10,590,976	208,744
Germany	2,973	13.0	38,646	103	3,964,678	9,911,695	2,744	13.0	35,670	109	3,888,046	9,720,115	191,580
Switzerland	1,211	15.0	18,158	104	1,896,956	4,742,390	1,117	15.0	16,759	111	1,860,290	4,659,726	91,664
East/Med Europe	142	15.5	2,202	113	248,728	621,819	131	15.5	2,035	120	243,920	609,800	12,019
Middle East	27	15.5	424	113	47,932	119,830	25	15.5	392	120	47,005	117,514	2,316
South Asia	218	15.5	3,384	129	436,299	1,090,748	201	15.5	3,123	137	427,866	1,069,665	21,083
Africa	36	15.5	551	113	62,182	155,455	33	15.5	508	120	60,980	152,450	3,005
	43,425		490,344		66,031,425	165,078,561	40,082		452,588		64,755,124	161,887,810	3,190,751

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (6/19)

Country/Region	2002 With project/program						2002 Without project/program						Economic Benefit
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	
Americas	684	17.0	11,625	160	1,854,934	4,637,335	619	17.0	10,520	173	1,820,005	4,550,014	37,221
USA	4373	17.0	84,534	160	13,489,069	33,722,673	4,500	17.0	76,503	173	13,235,070	33,087,676	634,997
East Asia/Pacific	788	6.5	5,121	126	647,074	1,617,686	713	6.5	4,634	137	634,890	1,587,225	30,461
Japan	22,337	7.5	167,530	166	27,814,364	69,531,911	20,215	7.5	151,615	180	27,290,621	68,226,552	1,309,359
Korea rep	1,662	6.5	10,801	126	1,564,819	3,412,048	1,504	6.5	9,775	137	1,339,120	3,347,800	64,249
China	65	6.5	423	46	19,485	48,713	59	6.5	382	50	19,118	47,795	917
Australia	910	15.0	13,653	102	1,397,379	3,494,698	824	15.0	12,356	111	1,371,557	3,428,893	65,805
Cent/East Europe	1,174	7.0	8,217	104	856,448	2,141,119	1,062	7.0	7,436	113	840,321	2,100,802	40,317
Russian Fed	10	6.5	63	64	4,019	10,048	9	6.5	57	69	3,944	9,859	189
Northern Europe	3,370	15.0	30,545	102	5,175,224	12,938,059	3,050	15.0	45,746	111	5,077,774	12,694,436	243,623
UK	1,919	15.0	29,384	95	2,791,376	6,978,940	1,773	15.0	26,592	103	2,739,011	6,847,527	131,413
Southern Europe	1,406	15.0	21,091	102	2,159,331	5,393,329	1,272	15.0	19,087	111	2,118,671	5,296,678	101,650
Western Europe	1,910	15.0	28,654	102	2,933,653	7,334,133	1,729	15.0	25,932	111	2,878,412	7,196,031	138,101
France	2,468	18.0	46,226	102	4,732,730	11,831,825	2,324	18.0	41,834	111	4,643,613	11,609,032	222,793
Germany	3,202	13.0	41,620	101	4,184,425	10,461,063	2,897	13.0	37,666	109	4,105,633	10,264,081	196,981
Switzerland	1,224	15.0	18,359	102	1,879,596	4,698,990	1,108	15.0	16,614	111	1,844,203	4,610,508	88,482
East/Med Europe	143	15.5	2,294	111	253,910	634,774	134	15.5	2,076	120	249,128	622,821	11,953
Middle East	28	15.5	442	111	48,878	122,194	26	15.5	400	120	47,957	119,893	2,301
South Asia	117	15.5	3,516	126	444,241	1,110,603	205	15.5	3,182	137	435,876	1,089,690	20,913
Africa	137	15.5	574	111	63,471	158,693	33	15.5	519	120	62,282	155,705	2,988
	48,681		544,671		72,115,133	180,287,832	44,056		492,928		70,757,207	176,893,018	3,594,414

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (6/19)

Country/Region	2002						2002						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit\$2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit\$2.5	Economic Benefit
Americas	684	17.0	11,625	160	1,854,934	4,657,355	619	17.0	19,830	138	1,829,008	4,550,014	87,321
USA	4,973	17.0	84,534	160	13,489,069	33,722,673	4,860	17.0	76,503	133	13,235,070	33,087,676	634,997
East Asia/Pacific	788	6.5	5,121	126	647,074	1,617,686	713	6.5	4,634	137	634,800	1,587,225	30,461
Japan	22,337	7.5	167,530	166	27,814,364	69,535,911	20,215	7.5	151,615	180	27,299,621	68,226,552	1,309,359
Korea rep	1,662	6.5	10,801	126	1,364,819	3,412,048	1,504	6.5	9,375	137	1,339,120	3,347,800	64,249
China	65	6.5	423	46	19,485	48,713	89	6.5	382	50	19,118	47,795	917
Australia	910	15.0	13,653	102	1,397,879	3,494,698	821	15.0	12,356	111	1,371,557	3,428,893	65,805
Cent/East Europe	1,174	7.0	8,217	104	856,448	2,141,119	1,062	7.0	7,436	113	840,321	2,100,802	40,317
Russian Fed	10	6.5	63	64	4,019	10,048	9	6.5	57	69	3,944	9,859	189
Northern Europe	3,370	15.0	50,548	102	5,175,224	12,938,059	3,056	15.0	45,746	111	5,077,774	12,694,436	243,623
UK	1,959	15.0	29,384	95	2,791,576	6,978,940	1,773	15.0	26,592	103	2,739,031	6,847,527	131,413
Southern Europe	1,406	15.0	21,091	102	2,159,331	5,398,329	1,272	15.0	19,087	113	2,118,671	5,296,678	101,659
Western Europe	1,910	15.0	28,654	102	2,933,653	7,334,133	1,729	15.0	25,932	111	2,878,412	7,196,051	138,101
France	2,568	18.0	46,226	102	4,732,750	11,831,825	2,324	18.0	41,834	111	4,643,613	11,609,032	222,793
Germany	3,202	13.0	41,620	101	4,184,425	10,461,063	2,897	13.0	37,666	109	4,105,633	10,264,081	196,981
Switzerland	1,224	15.0	18,359	102	1,879,596	4,698,990	1,108	15.0	16,614	111	1,844,203	4,610,508	88,482
East/Med Europe	148	15.5	2,294	111	253,910	634,774	134	15.5	2,076	120	239,128	622,821	11,953
Middle East	28	15.5	442	111	48,878	122,194	26	15.5	400	120	47,957	119,893	2,301
South Asia	227	15.5	3,516	126	444,241	1,110,603	205	15.5	3,182	137	435,876	1,089,690	20,913
Africa	37	15.5	574	111	63,477	158,693	33	15.5	519	120	62,282	155,705	2,988
	48,681		544,671		72,115,133	180,287,832	44,086		492,928		70,757,207	176,893,018	3,394,814

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (7/19)

Country/Region	2003													
	With project/program					Without project/program								
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Economic Benefit	
Americas														
USA	793	17.0	13,473	156	2,106,807	5,267,017	705	17.0	11,991	173	2,074,361	5,183,902	81,114	
	5,445	17.0	92,569	156	14,475,715	36,189,289	4,846	17.0	82,386	173	14,252,783	35,631,957	557,332	
East Asia/Pacific														
Japan	839	6.5	5,582	124	691,268	1,728,169	764	6.5	4,968	137	680,622	1,701,554	26,615	
Korea rep	26,114	7.5	195,853	163	31,866,392	79,665,979	23,241	7.5	174,309	180	31,375,635	78,439,086	1,226,893	
China	1,817	6.5	11,841	124	1,462,611	3,656,527	1,617	6.5	10,512	137	1,440,086	3,600,215	56,312	
	65	6.5	4.3	45	19,095	47,738	58	6.5	376	50	18,801	47,003	735	
Australia	1,061	15.0	13,911	100	1,596,413	3,991,034	944	15.0	14,161	111	1,571,828	3,929,570	61,464	
Cent/East Europe														
Russian Fed	1,224	7.0	8,548	102	875,133	2,187,833	1,089	7.0	7,625	113	861,656	2,154,139	33,694	
	10	6.5	66	62	4,136	10,340	9	6.5	59	69	4,072	10,181	159	
Northern Europe														
UK	4,182	15.0	62,736	100	6,294,630	15,736,574	3,722	15.0	55,835	111	6,197,689	15,494,224	242,350	
	2,396	15.0	35,942	93	3,346,370	8,365,799	2,133	15.0	31,988	103	3,294,785	8,236,962	128,817	
Southern Europe	1,663	15.0	24,941	100	2,402,410	6,256,026	1,480	15.0	22,197	111	2,463,872	6,159,680	96,346	
Western Europe	2,285	15.0	34,268	100	3,438,387	8,595,968	2,033	15.0	30,499	111	3,385,435	8,463,586	132,382	
France	2,962	18.0	53,316	100	5,349,472	13,373,680	2,636	18.0	47,451	111	5,267,088	13,167,719	205,961	
Germany	3,784	13.0	49,187	99	4,946,246	12,115,615	3,367	13.0	43,776	109	4,771,611	11,929,029	186,586	
Switzerland	1,406	15.0	21,086	100	2,113,693	5,289,233	1,251	15.0	18,767	111	2,083,111	5,207,777	81,457	
East/Med Europe														
Middle East	194	15.5	2,386	108	258,785	646,961	137	15.5	2,123	120	254,799	636,998	9,964	
South Asia	30	15.5	459	108	49,766	124,416	26	15.5	408	120	49,000	122,500	1,916	
Africa	236	15.5	3,659	124	453,111	1,132,779	210	15.5	3,256	137	446,133	1,115,333	17,445	
	39	15.5	602	108	65,318	163,296	35	15.5	536	120	64,312	160,781	2,515	
	56,423		632,836		81,817,708	204,544,271	50,205		563,224		80,557,678	201,394,195	3,150,076	

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (7/19)

Country/Region	2003						2003						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit \$2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit \$2.5	Economic Benefit
Americas	793	17.0	13,473	156	2,106,807	5,267,017	705	17.0	11,991	173	2,074,361	5,185,902	81,114
USA	5,445	17.0	92,569	156	14,475,715	36,189,289	4,846	17.0	82,386	173	14,252,783	35,631,957	557,332
East Asia/Pacific	859	6.5	5,582	124	691,268	1,728,169	764	6.5	4,968	137	680,622	1,701,554	26,615
Japan	26,114	7.5	195,853	163	31,866,392	79,665,979	23,241	7.5	174,309	180	31,375,635	78,439,086	1,226,893
Korea rep	1,817	6.5	11,811	124	1,462,611	3,656,527	1,617	6.5	10,512	137	1,440,086	3,600,215	56,312
China	65	6.5	423	45	19,095	47,738	58	6.5	376	50	18,801	47,003	735
Australia	1,061	15.0	15,911	100	1,596,413	3,991,034	944	15.0	14,161	111	1,571,828	3,929,570	61,464
Cen/East Europe	1,224	7.0	8,568	102	875,133	2,187,833	1,089	7.0	7,625	113	861,656	2,154,139	33,694
Russian Fed	10	6.5	66	62	4,136	10,340	9	6.5	59	69	4,072	10,181	159
Northern Europe	4,182	15.0	62,736	100	6,294,630	15,736,574	3,722	15.0	55,815	111	6,197,689	15,494,224	242,350
UK	2,396	15.0	35,942	93	3,346,320	8,365,799	2,133	15.0	31,988	103	3,294,785	8,236,962	128,837
Southern Europe	1,663	15.0	24,941	100	2,502,410	6,256,026	1,489	15.0	22,197	111	2,463,872	6,159,680	96,546
Western Europe	2,235	15.0	34,269	100	3,438,387	8,595,968	2,033	15.0	30,499	111	3,385,435	8,463,586	132,382
France	2,962	18.0	53,316	100	5,349,472	13,373,680	2,636	18.0	47,457	111	5,267,088	13,167,719	205,961
Germany	3,784	13.0	49,187	99	4,846,246	12,115,615	3,367	13.0	43,776	109	4,771,611	11,929,029	186,586
Switzerland	1,406	15.0	21,086	100	2,115,693	5,289,233	1,251	15.0	18,767	111	2,083,111	5,207,777	81,457
East/Med Europe	154	15.5	2,386	108	258,785	646,961	137	15.5	2,123	120	254,799	636,998	9,964
Middle East	30	15.5	459	108	49,766	124,416	26	15.5	408	120	49,000	122,500	1,916
South Asia	236	15.5	3,659	124	453,111	1,132,779	210	15.5	3,256	137	446,133	1,115,333	17,445
Africa	39	15.5	602	108	65,318	163,296	35	15.5	536	120	64,312	160,781	2,515
	56,523		632,836		81,817,708	204,544,271	50,305		563,224		80,557,678	201,394,195	3,150,076

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (8/19)

Country/Region	2004 With project/program							2004 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5		Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas														
USA	926	17.0	15,734	153	2,411,275	6,028,187		810	17.0	13,767	173	2,381,761	5,954,404	73,253
	6,109	17.0	103,859	153	15,916,460	39,791,150		5,346	17.0	90,877	173	15,771,649	39,304,121	487,029
East Asia/Pacific														
Japan	935	6.5	6,084	121	738,337	1,845,892		819	6.5	5,224	137	729,320	1,823,299	22,539
Korea rep	30,983	7.5	229,374	159	36,574,058	91,435,145		26,760	7.5	200,702	180	36,126,405	90,316,013	1,119,132
China	1,939	6.5	12,604	121	1,529,629	3,824,072		1,697	6.5	11,029	137	1,510,907	3,777,267	46,806
Australia	68	6.5	442	44	19,577	48,943		60	6.5	387	50	19,338	48,344	599
	1,221	15.0	18,321	98	1,801,447	4,503,618		1,069	15.0	16,031	111	1,779,398	4,448,495	55,123
Cent/East Europe														
Russian Fed	1,283	7.0	8,995	100	900,408	2,251,021		1,124	7.0	7,871	113	889,388	2,223,469	27,552
	31	6.5	70	61	4,256	10,640		9	6.5	61	69	4,204	10,509	130
Northern Europe														
UK	4,411	15.0	26,158	98	6,505,242	16,263,104		3,859	15.0	57,888	111	6,425,620	16,064,050	199,054
Southern Europe	2,906	15.0	43,539	91	3,977,119	9,942,798		2,543	15.0	38,140	103	3,928,441	9,821,102	121,696
Western Europe	1,934	15.0	29,016	98	2,853,100	7,132,750		1,693	15.0	25,389	111	2,818,179	7,045,448	87,502
France	2,704	15.0	40,562	98	3,988,352	9,970,879		2,366	15.0	35,491	111	3,939,536	9,848,839	122,040
Germany	1,337	18.0	60,057	98	5,905,515	14,763,287		2,919	18.0	52,550	111	5,833,036	14,582,590	180,697
Switzerland	4,433	13.0	57,604	97	5,563,971	13,908,927		3,879	13.0	50,421	109	5,495,870	13,739,675	170,252
	1,627	15.0	24,409	98	2,400,076	6,000,196		1,424	15.0	21,358	111	2,370,700	5,926,750	73,444
East/Med Europe														
Middle East	160	15.5	2,483	106	263,973	659,932		140	15.5	2,173	120	260,742	651,854	8,077
South Asia	31	15.5	476	106	50,600	126,500		27	15.5	417	120	49,981	124,951	1,548
Africa	245	15.5	3,802	121	461,449	1,153,623		215	15.5	3,327	137	455,801	1,139,503	14,120
	41	15.5	637	106	67,670	169,174		36	15.5	557	120	66,841	167,104	2,071
	64,907		724,295		91,932,332	229,830,830		56,794		633,758		90,807,115	227,017,786	2,813,044

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (8/19)

Country/Region	2004						2004						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/\$2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/\$2.5	Economic Benefit
Americas	926	17.0	15,734	153	2,411,275	6,023,187	810	17.0	13,267	173	2,381,764	5,954,404	73,783
USA	6,109	17.0	103,859	153	15,916,460	39,791,150	5,346	17.0	90,877	173	15,721,689	39,304,121	487,029
East Asia/Pacific	936	6.5	6,084	121	738,357	1,845,892	819	6.5	5,334	137	729,329	1,823,299	22,592
Japan	30,583	7.5	229,374	159	36,574,058	91,435,145	26,760	7.5	200,702	180	36,126,405	90,316,013	1,119,122
Korea rep	1,939	6.5	12,604	121	1,529,629	3,824,072	1,692	6.5	11,029	137	1,510,907	3,777,267	46,805
China	68	6.5	442	44	19,577	48,943	60	6.5	387	50	19,338	48,344	599
Australia	1,221	15.0	18,321	98	1,801,447	4,503,618	1,069	15.0	16,031	111	1,779,398	4,448,495	55,123
Gen/East Europe	1,285	7.0	8,993	100	900,408	2,251,021	1,123	7.0	7,871	113	889,388	2,223,469	27,552
Russian Fed	11	6.5	70	61	4,256	10,640	9	6.5	61	69	4,264	10,509	130
Northern Europe	4,411	15.0	66,158	98	6,505,242	16,263,104	3,859	15.0	57,888	111	6,425,620	16,064,950	199,054
UK	2,906	15.0	43,589	91	3,977,119	9,942,798	2,543	15.0	38,140	103	3,928,431	9,821,102	121,696
Southern Europe	1,934	15.0	29,016	98	2,853,100	7,132,750	1,693	15.0	25,389	111	2,818,179	7,045,448	87,302
Western Europe	2,704	15.0	40,562	98	3,988,352	9,970,379	2,366	15.0	35,491	111	3,939,536	9,848,839	122,040
France	3,337	18.0	60,057	98	5,905,315	14,765,237	2,919	18.0	52,550	111	5,833,056	14,582,590	180,697
Germany	4,433	13.0	57,624	97	5,563,971	13,909,927	3,879	13.0	50,421	109	5,495,879	13,739,675	170,252
Switzerland	1,627	15.0	24,409	98	2,400,076	6,000,190	1,424	15.0	21,356	111	2,370,700	5,926,750	73,440
East/Med Europe	160	15.5	2,483	106	263,973	659,932	140	15.5	2,173	120	260,742	651,854	8,077
Middle East	31	15.5	476	106	50,600	126,500	27	15.5	417	120	49,981	124,951	1,548
South Asia	245	15.5	3,802	121	461,449	1,153,623	215	15.5	3,327	137	455,801	1,139,503	14,120
Africa	41	15.5	637	106	67,670	169,174	36	15.5	557	120	66,831	167,104	2,071
	64,907		724,295		91,932,332	229,830,830	56,794		633,758		90,807,115	222,017,786	2,813,044

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (9/19)

Country/Region	2005												
	With project/program					Without project/program							
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/CZLS	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/CZLS	Economic Benefit
Americas USA	1,095 6,470	17.0 17.0	18,619 109,984	150 150	2,796,269 16,518,084	6,990,672 41,295,231	942 5,564	17.0 17.0	16,012 94,587	173 173	2,770,096 16,363,478	6,925,240 40,908,694	65,432 386,517
East Asia/Pacific	1,020 15,761 2,236 63 1,410	6.5 7.5 6.5 6.5 15.0	6,629 268,208 14,532 423 21,153	119 156 119 43 96	788,411 41,910,941 1,728,343 10,339 2,038,301	1,971,028 104,777,352 4,320,858 45,848 5,095,752	877 30,755 1,923 56 1,213	6.5 7.5 6.5 6.5 15.0	5,701 230,659 12,498 363 18,191	137 180 137 50 111	781,032 41,518,660 1,712,166 18,168 2,019,222	1,952,579 103,796,651 4,280,415 45,419 5,048,056	18,449 980,701 40,443 429 47,696
Cen/East Europe Russian Fed	1,350 11	7.0 6.5	9,448 73	98 60	926,863 4,384	2,317,158 10,960	1,161 10	7.0 6.5	8,126 63	113 69	918,188 4,243	2,295,469 10,858	21,683 103
Northern Europe UK	5,144 3,340	15.0 15.0	77,162 50,096	96 89	7,435,504 4,479,466	18,588,759 11,198,666	4,424 2,872	15.0 15.0	66,360 43,083	111 103	7,365,908 4,437,539	18,414,771 11,093,848	173,988 104,818
Southern Europe Western Europe	2,197 3,031	15.0 15.0	32,997 45,469	96 96	3,175,752 4,281,457	7,999,380 10,953,642	1,890 2,607	15.0 15.0	28,343 39,103	111 111	3,146,027 4,340,447	7,865,069 10,851,117	74,311 102,525
France Germany Switzerland	3,938 5,175 1,930	18.0 13.0 15.0	70,877 67,279 28,946	96 95 96	6,829,826 6,366,287 2,789,244	17,074,564 15,915,718 6,979,171	3,386 4,451 1,660	18.0 13.0 15.0	60,954 57,860 24,893	111 109 111	6,765,899 6,306,700 2,763,137	16,914,748 15,766,749 6,907,844	159,816 143,969 65,267
East/Med Europe Middle East South Asia Africa	167 32 255 43	15.5 15.5 15.5 15.5	2,581 493 3,957 663	104 104 119 104	268,850 51,380 470,637 69,304	672,124 128,450 1,176,391 173,259	143 27 220 37	15.5 15.5 15.5 15.5	2,219 424 3,403 572	120 120 137 120	266,333 50,899 466,231 68,655	665,834 127,248 1,165,579 171,637	6,291 1,202 11,013 1,622
	74,669		829,550		102,047,641	257,619,103	64,215		713,413		102,083,130	255,207,825	2,412,779

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (9/19)

Country/Region	2005						2005						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(\$2.5)	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(\$2.5)	Economic Benefit
Americas	1,095	17.0	18,619	150	2,796,269	6,990,672	942	17.0	16,012	173	2,270,096	6,925,240	65,432
USA	6,470	17.0	109,984	150	16,518,084	41,295,211	5,564	17.0	94,587	173	16,363,478	40,908,694	366,517
East Asia/Pacific	1,020	6.5	6,629	119	788,411	1,971,028	877	6.5	5,701	137	781,032	1,952,579	18,449
Japan	35,761	7.5	268,208	156	41,910,941	104,777,352	30,755	7.5	230,659	180	41,518,660	103,796,651	980,701
Korea rep	2,236	6.5	14,532	119	1,728,343	4,320,858	1,923	6.5	12,498	137	1,712,166	4,280,415	40,543
China	65	6.5	423	43	18,339	45,848	56	6.5	363	50	18,168	45,419	429
Australia	1,410	15.0	21,153	96	2,038,301	5,095,752	1,213	15.0	18,191	111	2,019,222	5,048,056	47,696
Cent/East Europe	1,350	7.0	9,448	98	926,863	2,317,158	1,161	7.0	8,126	113	918,188	2,295,469	21,688
Russian Fed	11	6.5	73	60	4,384	10,960	10	6.5	63	69	4,343	10,858	103
Northern Europe	5,144	15.0	77,162	96	7,435,504	18,588,759	4,424	15.0	66,360	111	7,365,908	18,414,771	173,988
UK	3,340	15.0	50,096	89	4,479,466	11,198,666	2,872	15.0	43,083	103	4,437,539	11,093,848	104,818
Southern Europe	2,197	15.0	32,957	96	3,175,752	7,939,380	1,890	15.0	28,343	111	3,146,027	7,865,069	74,311
Western Europe	3,031	15.0	45,469	96	4,381,457	10,953,642	2,607	15.0	39,303	111	4,340,447	10,851,117	102,525
France	3,938	18.0	70,877	96	6,829,826	17,074,564	3,386	18.0	60,954	111	6,765,899	16,914,748	159,816
Germany	5,175	13.0	67,279	95	6,366,287	15,915,718	4,451	13.0	57,869	109	6,306,700	15,766,749	148,969
Switzerland	1,930	15.0	28,946	96	2,789,244	6,973,111	1,660	15.0	24,893	111	2,763,137	6,907,844	65,267
East/Med Europe	167	15.5	2,581	104	268,850	672,124	143	15.5	2,219	120	266,333	665,834	6,291
Middle East	32	15.5	493	104	51,380	128,450	27	15.5	424	120	50,899	127,248	1,202
South Asia	255	15.5	3,957	119	470,637	1,176,591	220	15.5	3,403	134	466,231	1,165,579	11,013
Africa	43	15.5	665	104	69,304	173,259	37	15.5	572	120	68,655	171,637	1,622
	74,669		829,550		103,047,641	257,619,103	64,215		713,413		102,083,140	255,307,825	2,411,279

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (10/19)

Country/Region	2006 With project/program						2006 Without project/program						
	Leisure Tourist	ALS	Tourist Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Leisure Tourist	ALS	Tourist Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas USA	1,222 7,696	17.0 17.0	20,780 130,824	147 147	3,038,460 19,254,963	7,646,149 48,137,412	978 6,156	17.0 17.0	16,624 104,659	173 173	2,875,969 18,106,067	7,189,922 45,265,166	356,228 2,372,246
East Asia/Pacific Japan	1,120 39,769	6.5 7.5	7,281 298,266	117 153	848,578 45,675,663	2,121,444 114,189,158	896 31,815	6.5 7.5	5,824 238,613	137 180	797,945 42,990,304	1,994,862 107,375,760	126,582 6,913,398
Korea rep	2,210	6.5	14,366	117	1,674,404	4,186,011	1,768	6.5	11,493	137	1,574,497	3,936,242	249,369
China	65	6.5	423	43	17,972	44,931	52	6.5	338	50	16,900	42,250	2,681
Australia	1,674	15.0	25,106	94	2,370,915	5,927,288	1,339	15.0	20,085	111	2,229,448	5,573,621	353,667
Cen/East Europe Russian Fed	1,423 11	7.0 6.5	9,961 75	96 59	957,626 4,383	2,394,066 10,957	1,138 9	7.0 6.5	7,969 60	113 69	900,487 4,121	2,251,218 10,303	142,848 654
Northern Europe UK	6,346 4,761	15.0 15.0	98,186 63,911	94 88	9,272,189 5,600,466	23,180,472 14,001,163	5,237 3,409	15.0 15.0	78,549 51,129	111 103	8,718,939 5,266,299	21,797,348 13,165,748	1,383,124 835,416
Southern Europe	2,962	15.0	44,429	94	4,195,663	10,489,157	2,370	15.0	35,543	111	3,945,317	9,863,294	625,863
Western Europe	3,936	15.0	59,003	94	5,574,716	13,936,790	3,148	15.0	47,226	111	5,242,086	13,105,215	831,575
France	4,980	15.0	89,647	94	8,465,806	21,164,515	3,984	18.0	71,718	111	7,960,671	19,901,678	1,262,837
Germany	6,084	13.0	79,097	93	7,334,934	18,337,333	4,868	13.0	63,278	109	6,897,276	17,243,190	1,094,146
Switzerland	2,520	15.0	37,802	94	3,569,844	8,924,610	2,016	15.0	30,242	111	3,356,840	8,392,100	532,510
East/Med Europe	176	15.5	2,736	102	279,281	698,203	141	15.5	2,188	120	262,617	656,543	41,660
Middle East	34	15.5	322	102	33,280	132,200	27	15.5	418	120	50,101	125,252	7,948
South Asia	270	15.5	4,192	117	488,630	1,221,573	216	15.5	3,354	137	459,474	1,148,686	72,889
Africa	46	15.5	705	102	72,016	318,040	36	15.5	564	120	67,719	169,297	10,743
	87,005		987,343		118,769,791	296,924,877	69,604		789,874		111,683,077	279,207,694	17,716,783

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (10/19)

Country/Region	2006 With project/program						2006 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(2.5)	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(2.5)	Economic Benefit
Americas	1,222	17.0	20,780	147	3,058,460	7,646,149	928	12.0	16,623	173	2,852,969	7,180,922	456,228
USA	7,696	17.0	130,824	147	19,254,965	48,137,412	6,186	12.0	104,689	173	18,106,067	45,265,146	2,872,246
East Asia/Pacific	1,120	6.5	7,281	117	848,578	2,121,444	896	6.5	5,823	157	797,945	1,994,862	126,582
Japan	39,769	7.5	298,266	153	45,675,663	114,189,158	31,815	7.5	238,613	180	42,950,304	107,375,760	6,813,398
Korea rep	2,210	6.5	14,366	117	1,674,404	4,186,011	1,768	6.5	11,493	137	1,574,497	3,936,242	249,769
China	65	6.5	423	43	17,972	44,931	52	6.5	338	50	16,900	42,250	2,681
Australia	1,674	15.0	25,106	94	2,370,915	5,927,288	1,339	15.0	20,085	111	2,229,448	5,573,621	353,667
Cent/East Europe	1,423	7.0	9,961	96	957,626	2,394,066	1,138	7.0	7,969	113	900,487	2,251,218	142,848
Russian Fed	11	6.5	75	59	4,383	10,957	9	6.5	60	69	4,121	10,303	654
Northern Europe	6,546	15.0	98,186	94	9,272,189	23,180,472	5,237	15.0	78,549	113	8,718,939	21,797,348	1,383,124
UK	4,261	15.0	63,911	88	5,600,466	14,001,165	3,409	15.0	51,129	105	5,266,299	13,165,748	835,416
Southern Europe	2,962	15.0	44,429	94	4,195,663	10,489,157	2,370	15.0	35,543	111	3,945,317	9,863,294	625,863
Western Europe	3,936	15.0	59,033	94	5,574,716	13,936,790	3,148	15.0	47,226	111	5,242,086	13,105,215	831,575
France	4,980	18.0	89,647	94	8,465,806	21,164,515	3,984	18.0	71,718	111	7,960,671	19,901,678	1,262,837
Germany	6,084	13.0	79,097	93	7,334,934	18,337,335	4,868	13.0	63,278	109	6,897,276	17,243,190	1,094,146
Switzerland	2,520	15.0	37,802	94	3,569,844	8,924,610	2,016	15.0	30,242	111	3,356,850	8,392,100	532,510
East/Med Europe	176	15.5	2,736	102	279,281	698,203	141	15.5	2,188	120	262,617	656,543	41,660
Middle East	34	15.5	522	102	53,280	133,200	27	15.5	418	120	50,101	125,252	7,948
South Asia	270	15.5	4,192	117	488,630	1,221,575	216	15.5	3,354	137	459,474	1,148,686	72,888
Africa	46	15.5	705	102	72,016	180,040	36	15.5	564	120	67,719	169,297	10,745
	87,005		987,343		118,769,791	296,924,477	69,604		789,874		111,683,077	279,207,694	17,716,783

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (11/19)

Country/Region	2007							2007						
	With project/program				Without project/program			Without project/program				Without project/program		
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)		Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Economic Benefit
Americas	2,099	17.0	35,348	144	5,098,503	12,746,258		1,643	17.0	27,925	173	4,830,978	12,077,446	668,812
USA	8,206	17.0	139,502	144	20,121,589	50,305,973		6,483	17.0	110,207	173	19,065,785	47,664,462	2,639,511
East Asia/Pacific	2,273	6.5	8,274	114	945,120	2,362,799		1,006	6.5	6,537	137	895,528	2,238,820	123,979
Japan	44,377	7.5	332,828	150	49,948,998	124,872,495		35,058	7.5	262,934	180	47,528,113	118,320,283	6,552,212
Korea rep	2,517	6.5	16,362	114	1,868,946	4,672,364		1,989	6.5	12,926	137	1,770,880	4,427,200	245,165
China	70	6.5	455	42	18,968	47,419		55	6.5	359	50	17,973	44,931	2,488
Australia	1,772	15.0	26,575	93	2,459,415	6,148,537		1,400	15.0	20,994	111	2,330,366	5,824,915	322,621
Cent/East Europe	1,500	7.0	10,502	94	989,473	2,473,681		1,185	7.0	8,297	113	937,554	2,343,884	129,797
Russian Fed	12	6.5	76	38	4,381	10,954		9	6.5	60	69	4,152	10,379	575
Northern Europe	6,916	15.0	103,742	93	9,600,861	24,002,153		5,464	15.0	81,956	111	9,097,092	22,742,730	1,259,422
UK	1,545	15.0	68,177	86	5,854,804	14,637,009		3,591	15.0	53,860	103	5,547,595	13,868,988	768,022
Southern Europe	3,157	15.0	47,361	93	4,383,071	10,957,678		2,494	15.0	37,415	111	4,153,086	10,382,715	579,365
Western Europe	4,280	15.0	64,199	93	5,941,314	14,853,286		3,381	15.0	50,717	111	5,629,566	14,073,916	779,370
France	3,392	18.0	97,056	93	8,982,145	22,455,362		4,260	18.0	76,674	111	8,510,841	21,277,102	1,178,260
Germany	6,670	13.0	36,713	91	2,880,312	7,300,779		5,269	13.0	68,503	109	7,466,822	18,667,055	1,033,274
Switzerland	2,820	15.0	42,293	93	3,914,002	9,785,004		2,227	15.0	33,411	111	3,708,629	9,271,573	513,631
East/Med Europe	187	15.5	2,896	100	289,762	724,404		148	15.5	2,288	120	274,557	686,393	38,010
Middle East	36	15.5	556	100	55,657	139,143		28	15.5	439	120	52,737	131,842	7,201
South Asia	287	15.5	4,445	114	507,680	1,269,201		227	15.5	3,511	137	481,042	1,202,604	66,297
Africa	48	13.5	751	100	75,166	187,915		38	15.5	594	120	71,222	178,055	9,860
	96,145		1,088,111		128,940,165	322,350,413		75,954		859,608		122,174,517	305,436,294	16,914,119

Source: JICA Study Teams

Table A.20.1.1 Economic Benefit: Generation (Conservative Case) (11/19)

Country/Region	2007 With project/program						2007 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit\$2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit\$2.5	Economic Benefit
Americas	2,079	17.0	35,348	144	5,098,503	12,746,258	1,643	17.0	27,925	173	4,830,978	12,077,446	668,832
USA	8,206	17.0	139,502	144	20,121,589	50,303,973	6,483	17.0	110,207	173	19,068,785	47,664,362	2,639,511
East Asia/Pacific	1,273	6.5	8,274	114	945,120	2,362,799	1,006	6.5	6,537	137	895,528	2,238,820	123,979
Japan	44,377	7.5	332,828	150	49,948,998	124,872,495	35,058	7.5	262,934	180	47,328,113	118,320,283	6,552,212
Korea rep	2,517	6.5	16,362	114	1,868,946	4,672,364	1,989	6.5	12,926	137	1,770,880	4,427,200	245,165
China	70	6.5	455	42	18,968	47,419	55	6.5	359	50	17,973	44,931	2,488
Australia	1,772	15.0	26,575	93	2,459,415	6,148,537	1,400	15.0	20,994	111	2,330,366	5,825,915	322,621
Cent/East Europe	1,500	7.0	10,502	94	989,473	2,473,681	1,185	7.0	8,297	113	937,554	2,343,884	129,797
Russian Fed	12	6.5	76	58	4,281	10,954	9	6.5	60	69	4,152	10,379	575
Northern Europe	6,916	15.0	103,742	93	9,600,861	24,002,153	5,464	15.0	81,936	131	9,097,092	22,742,730	1,259,422
UK	4,545	15.0	68,177	86	5,854,804	14,637,009	3,591	15.0	53,860	103	5,547,595	13,868,988	768,022
Southern Europe	3,157	15.0	47,361	93	4,383,071	10,957,678	2,494	15.0	37,415	111	4,153,086	10,382,715	574,963
Western Europe	4,280	15.0	64,199	93	5,941,314	14,853,286	3,381	15.0	50,717	111	5,629,566	14,073,916	779,370
France	5,392	18.0	97,056	93	8,982,145	22,455,362	4,260	18.0	76,674	111	8,530,841	21,277,102	1,178,260
Germany	6,670	13.0	86,713	91	7,880,312	19,700,779	5,269	13.0	68,503	109	7,466,822	18,667,055	1,033,724
Switzerland	2,820	15.0	42,293	93	3,914,002	9,785,004	2,227	15.0	33,411	111	3,708,629	9,271,573	513,431
East/Med Europe	187	15.5	2,896	100	289,762	724,404	148	15.5	2,288	120	274,557	686,393	36,010
Middle East	36	15.5	556	100	55,657	139,143	28	15.5	439	120	52,737	131,862	7,201
South Asia	287	15.5	4,445	114	507,880	1,269,201	227	15.5	3,511	137	481,042	1,202,604	66,597
Africa	48	15.5	751	100	75,166	187,915	38	15.5	594	120	71,222	178,055	9,860
	96,145		1,088,111		128,940,165	322,350,413	75,954		859,608		122,174,517	305,436,293	16,914,119

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (12/19)

Country/Region	2008 With project/program						2008 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas	1,237	17.0	31,230	341	4,414,524	11,036,309	1,415	17.0	24,047	173	4,160,196	10,400,491	635,819
USA	874	17.0	148,595	341	21,004,480	52,511,200	6,730	17.0	114,418	173	19,794,380	49,485,950	3,075,250
East Asia/Pacific	1,403	6.5	9,120	112	1,020,864	2,552,160	1,080	6.5	7,022	137	962,050	2,405,126	147,034
Japan	49,098	7.5	368,237	147	54,157,730	135,394,324	37,806	7.5	283,542	180	51,037,620	127,594,051	7,800,273
Korea rep	2,449	6.5	17,221	112	1,927,734	4,819,335	2,040	6.5	13,260	137	1,816,674	4,541,686	277,649
China	65	6.5	423	41	17,261	43,152	50	6.5	325	50	16,266	40,666	2,386
Australia	1,915	15.0	29,331	91	2,660,150	6,650,376	1,506	15.0	22,585	111	2,506,895	6,267,237	383,138
Cent/East Europe	1,382	7.0	11,075	92	1,022,331	2,556,329	1,218	7.0	8,528	113	963,622	2,409,055	147,274
Russian Fed	12	6.5	78	56	4,381	10,952	9	6.5	60	69	4,128	10,321	631
Northern Europe	7,853	15.0	117,798	91	10,683,699	26,709,248	6,047	15.0	90,704	111	10,068,195	25,170,488	1,538,769
UK	4,971	15.0	74,567	84	6,275,430	15,688,575	3,828	15.0	57,416	103	5,913,893	14,784,732	903,843
Southern Europe	3,374	15.0	53,608	91	4,861,959	12,154,898	2,752	15.0	41,278	111	4,581,854	11,454,636	700,262
Western Europe	4,714	15.0	70,703	91	6,412,369	16,030,923	3,629	15.0	54,441	111	6,042,943	15,107,357	923,566
France	3,983	13.0	107,779	91	9,774,989	24,437,472	4,611	18.0	82,990	111	9,211,837	23,029,592	1,407,890
Germany	7,478	13.0	97,220	89	8,658,479	21,646,198	5,758	13.0	74,859	109	8,159,651	20,399,128	1,247,070
Switzerland	3,104	15.0	46,361	91	4,222,831	10,357,078	2,390	15.0	35,852	111	3,979,547	9,948,868	608,209
East/Med Europe	198	15.5	3,074	98	301,338	753,495	153	15.5	2,367	120	284,034	710,085	43,410
Middle East	38	15.5	585	98	57,356	143,389	29	15.5	450	120	54,051	135,128	8,061
South Asia	304	15.5	4,714	112	327,699	1,319,248	234	15.5	3,630	137	497,298	1,243,244	76,004
Africa	51	15.5	797	98	78,161	195,403	40	15.5	614	120	73,658	184,145	11,257
	105,617		1,192,714		138,084,025	345,210,062	81,325		918,390		130,128,794	325,321,985	19,838,077

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (12/19)

Country/Region	2008						2008						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitΔ2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitΔ2.5	Economic Benefit
Americas	1,837	17.0	31,230	141	4,414,424	11,036,309	1,418	17.0	24,067	173	4,160,396	10,406,691	635,819
USA	8,741	17.0	148,595	141	21,004,480	52,511,200	6,739	17.0	114,438	173	19,794,380	49,485,950	3,025,250
East Asia/Pacific	1,403	6.5	9,120	112	1,020,864	2,552,160	1,080	6.5	7,022	137	963,080	2,405,126	147,034
Japan	49,098	7.5	368,237	147	54,157,730	135,394,324	37,806	7.5	283,562	180	51,037,620	127,592,051	7,800,273
Korea rep	2,649	6.5	17,221	112	1,927,754	4,819,335	2,040	6.5	13,260	137	1,816,674	4,541,686	277,649
China	65	6.5	423	41	17,261	43,152	50	6.5	325	50	16,266	40,666	2,486
Australia	1,955	15.0	29,331	91	2,660,150	6,650,376	1,506	15.0	22,585	111	2,506,895	6,267,237	383,138
Cent/East Europe	1,582	7.0	11,075	92	1,022,331	2,556,329	1,218	7.0	8,328	113	963,622	2,409,055	147,276
Russian Fed	12	6.5	78	56	4,381	10,952	9	6.5	60	69	4,128	10,321	631
Northern Europe	7,853	15.0	117,798	91	10,683,699	26,709,248	6,047	15.0	90,704	111	10,068,195	25,170,488	1,538,760
UK	4,971	15.0	74,567	84	6,275,430	15,688,575	3,828	15.0	57,416	103	5,913,893	14,784,732	903,843
Southern Europe	3,574	15.0	53,608	91	4,861,959	12,154,898	2,752	15.0	41,278	131	4,581,854	11,454,636	700,262
Western Europe	4,714	15.0	70,703	91	6,412,369	16,030,923	3,629	15.0	54,441	111	6,042,943	15,107,357	923,566
France	5,988	18.0	107,779	91	9,774,989	24,437,472	4,611	18.0	82,900	111	9,211,837	23,029,592	1,407,880
Germany	7,478	13.0	97,220	89	8,658,479	21,646,198	5,758	13.0	74,859	109	8,159,651	20,399,128	1,247,070
Switzerland	3,104	15.0	46,561	91	4,222,831	10,557,078	2,390	15.0	35,852	111	3,979,547	9,948,868	608,209
East/Med Europe	198	15.5	3,074	98	301,398	753,495	153	15.5	2,367	120	284,034	710,085	43,410
Middle East	38	15.5	585	98	57,356	143,389	29	15.5	450	120	54,051	135,128	8,261
South Asia	304	15.5	4,714	112	527,699	1,319,248	234	15.5	3,630	137	497,298	1,243,244	76,004
Africa	51	15.5	797	98	78,161	195,403	40	15.5	614	120	73,658	184,145	11,257
	105,617		1,192,714		138,084,025	345,210,062	87,325		918,390		130,128,794	325,321,985	19,888,077

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (13/19)

Country/Region	2009 With project/program						2009 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Economic Benefit
Americas	2,536	17.0	43,113	139	5,972,226	14,930,565	1,927	17.0	32,766	173	5,668,433	14,171,082	759,483
USA	10,107	17.0	171,827	139	23,802,643	59,506,607	7,682	17.0	130,589	173	22,591,857	56,479,643	3,026,963
East Asia/Pacific	1,443	6.5	9,382	110	1,029,211	2,573,028	1,097	6.5	7,130	137	976,857	2,442,144	130,884
Japan	5,555	7.5	409,164	144	58,973,480	147,433,699	41,462	7.5	310,965	180	55,973,635	139,934,088	7,499,611
Korea rep	2,368	6.5	16,693	110	1,831,223	4,578,057	1,952	6.5	12,687	137	1,738,073	4,345,181	232,375
China	70	6.5	455	40	18,217	45,542	53	6.5	346	50	17,290	43,225	2,317
Australia	2,190	15.0	32,846	89	2,919,400	7,294,500	1,664	15.0	24,963	111	2,770,897	6,927,242	371,258
Cent/East Europe	1,668	7.0	11,678	90	1,056,684	2,641,711	1,268	7.0	8,876	113	1,002,933	2,507,333	134,378
Russian Fed	312	6.5	79	55	4,380	10,949	9	6.5	60	69	4,157	10,392	557
Northern Europe	9,923	15.0	148,852	89	13,230,119	33,075,298	7,542	15.0	113,127	111	12,357,134	31,392,834	1,682,464
UK	8,249	15.0	93,739	82	7,731,122	19,327,805	4,749	15.0	71,241	103	7,337,858	18,344,644	983,161
Southern Europe	1,619	15.0	69,290	89	6,158,533	15,396,331	3,511	15.0	52,660	111	5,845,262	14,613,156	783,176
Western Europe	6,016	15.0	90,236	89	8,020,238	20,050,594	4,572	15.0	68,579	111	7,612,267	19,030,667	1,019,927
France	7,737	18.0	139,268	89	12,378,286	30,945,716	5,880	18.0	105,844	111	11,748,632	29,371,579	1,574,157
Germany	9,164	13.0	119,113	87	10,397,833	25,994,632	6,965	13.0	90,541	109	9,868,938	24,672,345	1,322,287
Switzerland	4,058	15.0	60,869	89	5,410,064	13,525,160	3,084	15.0	46,260	111	5,134,867	12,837,167	687,994
East/Med Europe	210	15.5	3,257	96	313,004	782,510	160	15.5	2,476	120	297,082	742,705	39,804
Middle East	40	15.5	625	96	60,066	150,165	31	15.5	475	120	57,010	142,526	7,639
South Asia	322	15.5	4,995	110	547,973	1,369,932	245	15.5	3,796	137	520,099	1,300,247	69,685
Africa	55	15.5	849	96	31,557	203,893	42	15.5	645	120	77,409	193,522	10,372
	123,545		1,426,348		159,936,277	399,840,693	93,894		1,084,025		151,800,689	379,501,722	20,338,971

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (13/19)

Country/Region	2009						2009						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas	2,536	17.0	43,113	139	5,972,226	14,930,565	1,927	17.0	32,766	173	5,668,433	14,171,082	759,483
USA	10,107	17.0	171,827	139	23,802,643	59,506,607	7,682	17.0	130,589	173	22,591,857	56,479,643	3,026,963
East Asia/Pacific	1,443	6.5	9,382	110	1,029,211	2,573,028	1,097	6.5	7,130	137	976,857	2,442,144	130,884
Japan	54,555	7.5	409,164	144	58,973,480	147,433,699	41,462	7.5	310,965	180	55,973,635	139,934,088	7,499,611
Korea rep	2,568	6.5	16,693	110	1,831,223	4,578,057	1,952	6.5	12,687	137	1,738,073	4,345,181	232,875
China	70	6.5	455	40	18,217	45,542	53	6.5	346	50	17,290	43,225	2,317
Australia	2,190	15.0	32,846	89	2,919,400	7,298,500	1,664	15.0	24,963	111	2,770,897	6,927,252	371,258
Central Europe	1,668	7.0	11,678	90	1,056,684	2,641,711	1,268	7.0	8,876	113	1,002,933	2,507,333	134,378
Russian Fed	12	6.5	79	55	4,380	10,949	9	6.5	60	69	4,157	10,392	557
Northern Europe	9,923	15.0	148,852	89	13,230,119	33,075,298	7,542	15.0	113,127	111	12,557,134	31,392,834	1,682,464
UK	6,249	15.0	93,739	82	7,731,122	19,327,805	4,749	15.0	71,241	103	7,337,858	18,344,644	983,161
Southern Europe	4,619	15.0	69,290	89	6,158,533	15,396,331	3,511	15.0	52,600	111	5,845,262	14,613,156	783,176
Western Europe	6,016	15.0	90,236	89	8,020,238	20,050,594	4,572	15.0	68,579	111	7,612,267	19,030,667	1,019,927
France	7,737	18.0	139,268	89	12,378,286	30,945,716	5,880	18.0	105,844	111	11,748,632	29,371,579	1,574,137
Germany	9,164	13.0	119,133	87	10,397,853	25,994,632	6,965	13.0	90,541	109	9,868,938	24,672,345	1,322,287
Switzerland	4,058	15.0	60,869	89	5,410,064	13,525,160	3,084	15.0	46,260	111	5,134,867	12,837,167	687,594
East/Med Europe	210	15.5	3,257	96	313,004	782,510	1,601	15.5	2,476	120	297,082	742,795	39,804
Middle East	40	15.5	625	96	60,066	150,165	31	15.5	475	120	57,010	142,526	7,639
South Asia	322	15.5	4,995	110	547,973	1,369,932	245	15.5	3,796	137	520,099	1,300,247	69,685
Africa	55	15.5	849	96	81,557	203,893	42	15.5	645	120	77,409	193,522	10,372
	123,545		1,426,348		159,836,277	399,840,693	93,894		1,084,025		151,800,689	379,501,722	20,338,971

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (14/19)

Country/Region	2010 With project/program							2010 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Direct Benefit/Leisure Tourist	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit/Leisure Tourist
Americas	2,516	17.0	42,773	136	5,806,625	14,516,561	1,867	17.0	31,737	173	5,490,536	13,726,340	790,221	
USA	10,096	17.0	171,640	136	25,201,203	58,253,009	7,492	17.0	127,357	173	22,032,783	55,081,957	3,171,052	
East Asia/Pacific	1,578	6.0	9,468	108	1,017,830	2,544,573	1,171	6.0	7,025	137	962,423	2,406,059	138,516	
Japan	40,614	7.0	424,300	141	59,931,910	149,829,775	44,976	7.0	314,830	180	56,669,465	141,673,663	8,156,111	
Korea rep	2,725	6.0	16,352	108	1,757,933	4,394,332	2,022	6.0	12,133	137	1,662,238	4,155,595	259,256	
China	65	6.0	390	39	15,302	34,255	48	6.0	289	50	14,469	36,173	2,082	
Australia	2,457	15.0	36,855	87	3,210,162	8,025,406	1,823	15.0	27,346	111	3,035,414	7,588,536	436,870	
Cent/East Europe	1,760	7.0	12,318	89	1,092,277	2,730,694	1,306	7.0	9,140	113	1,032,818	2,582,046	148,648	
Russian Fed	312	6.5	81	54	4,379	10,946	9	6.5	60	69	4,140	10,351	596	
Northern Europe	9,910	15.0	148,657	87	12,948,532	32,371,329	7,354	15.0	110,303	111	12,243,667	30,609,168	1,762,161	
UK	6,247	15.0	93,709	81	7,574,075	18,935,187	4,635	15.0	69,532	103	7,161,773	17,904,434	1,090,353	
Southern Europe	4,498	15.0	67,473	87	5,877,269	14,693,172	3,338	15.0	50,066	111	5,557,335	13,893,337	795,835	
Western Europe	6,083	15.0	91,241	87	7,947,372	19,868,430	4,513	15.0	67,700	111	7,514,750	18,786,875	1,091,555	
France	7,762	18.0	139,718	87	12,169,917	30,424,793	5,759	18.0	103,671	111	11,507,437	28,768,594	1,656,200	
Germany	9,272	13.0	120,537	86	10,309,986	25,774,964	6,880	13.0	89,438	109	9,748,753	24,371,882	1,403,082	
Switzerland	4,031	15.0	60,464	87	5,266,586	13,166,465	2,991	15.0	44,864	111	4,979,895	12,449,737	716,728	
East/Med Europe	223	15.5	3,452	94	325,103	812,763	165	15.5	2,562	120	307,408	768,520	44,243	
Middle East	43	15.5	660	94	62,105	155,262	32	15.5	489	120	58,724	146,810	8,452	
South Asia	342	15.5	5,293	108	569,074	1,422,685	253	15.5	3,928	137	538,096	1,345,239	72,445	
Africa	38	15.5	900	94	84,787	211,967	43	15.5	668	120	80,171	200,428	11,539	
	130,293		1,446,280		159,272,427	398,181,068	96,677		1,073,139		150,602,297	376,505,742	21,675,320	

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (14/19)

Country/Region	2010												
	With project/program					Without project/program							
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas	2,516	17.0	42,773	136	5,806,525	14,516,561	1,867	17.0	31,737	133	5,490,536	13,726,340	790,221
USA	10,096	17.0	171,640	136	23,301,203	58,253,009	7,492	17.0	127,357	173	22,032,783	55,081,957	3,171,052
East Asia/Pacific	1,578	6.0	9,468	108	1,017,830	2,544,575	1,173	6.0	7,025	137	962,423	2,406,059	138,516
Japan	60,614	7.0	424,300	141	59,931,910	149,829,775	41,976	7.0	334,830	180	50,669,465	141,673,663	8,156,111
Korea rep	2,725	6.0	16,352	108	1,757,933	4,394,832	2,022	6.0	12,333	137	1,062,238	4,155,595	239,236
China	65	6.0	390	39	15,302	38,255	48	6.0	289	50	14,469	36,173	2,082
Australia	2,457	15.0	36,855	87	3,210,162	8,025,406	1,823	15.0	27,436	111	3,035,414	7,588,536	436,870
Gen/East Europe	1,760	7.0	12,318	59	1,092,277	2,730,694	1,306	7.0	9,140	113	1,042,818	2,582,046	148,648
Russian Fed	12	6.5	81	54	4,379	10,946	9	6.5	60	69	4,140	10,351	596
Northern Europe	9,910	15.0	148,657	87	12,948,532	32,371,329	7,354	15.0	110,303	111	12,243,667	30,609,168	1,762,161
UK	6,247	15.0	93,709	81	7,574,075	18,935,187	4,635	15.0	69,532	103	7,161,773	17,904,434	1,030,753
Southern Europe	4,498	15.0	67,475	87	5,877,269	14,693,172	3,338	15.0	50,066	111	5,557,335	13,893,337	799,835
Western Europe	6,083	15.0	91,241	87	7,947,372	19,868,430	4,515	15.0	67,700	111	7,514,750	18,786,875	1,081,555
France	7,762	18.0	139,718	87	12,169,917	30,424,793	5,759	18.0	103,671	111	11,507,437	28,768,594	1,650,200
Germany	9,272	13.0	120,537	86	10,309,986	25,774,964	6,880	13.0	89,438	109	9,748,753	24,371,882	1,405,082
Switzerland	4,031	15.0	60,464	87	5,266,586	13,166,465	2,991	15.0	44,864	111	4,979,895	12,449,737	716,728
East/Med Europe	223	15.5	3,452	94	325,105	812,763	165	15.5	2,562	120	307,408	768,520	44,243
Middle East	43	15.5	660	94	62,105	155,262	32	15.5	489	120	58,724	146,810	8,452
South Asia	342	15.5	5,293	108	569,074	1,422,685	253	15.5	3,928	137	538,096	1,345,239	77,445
Africa	58	15.5	900	94	84,787	211,967	43	15.5	668	120	80,171	200,428	11,539
	130,293		1,446,280		159,272,427	398,181,068	96,677		1,073,139		150,602,297	376,505,742	21,675,226

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (15/19)

Country/Region	2011							2011							
	With project/program				Without project/program				Without project/program				Without project/program		
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS		Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit	
Americas	2,809	17.0	97,737	133	6,353,666	15,884,166		2,051	17.0	34,863	173	6,031,263	15,078,158	396,008	
USA	10,647	17.0	180,995	133	24,079,677	60,199,192		7,772	17.0	132,126	173	22,857,806	57,144,514	3,054,679	
East Asia/Pacific	1,132	6.0	10,390	105	1,094,607	2,736,518		1,264	6.0	7,584	137	1,039,064	2,597,660	138,859	
Japan	64,840	7.0	467,880	138	64,765,835	161,914,388		48,793	7.0	341,552	180	61,479,432	153,698,580	8,216,008	
Korea rep	1,909	6.0	17,456	105	1,839,138	4,597,844		2,124	6.0	12,743	137	1,745,815	4,364,536	233,208	
China	45	6.0	390	38	14,996	37,490		47	6.0	285	50	14,235	35,588	1,902	
Australia	2,738	15.0	41,374	85	3,531,776	8,829,440		2,014	15.0	30,203	111	3,352,564	8,381,409	448,031	
Cent/East Europe	1,836	7.0	12,994	87	1,129,175	2,822,938		1,355	7.0	9,486	113	1,071,878	2,679,694	143,244	
Russian Fed	113	6.5	82	53	4,378	10,944		9	6.5	60	69	4,155	10,389	535	
Northern Europe	10,651	15.0	139,764	85	15,637,714	34,094,284		7,775	15.0	116,628	111	12,945,697	32,364,243	1,730,041	
UK	6,770	15.0	101,548	79	8,043,315	20,108,787		4,942	15.0	74,130	103	7,635,364	19,088,410	1,020,377	
Southern Europe	1,638	15.0	69,875	85	5,564,635	14,911,038		3,401	15.0	51,009	111	5,661,992	14,154,979	756,659	
Western Europe	6,479	15.0	97,191	85	8,296,368	20,740,920		4,730	15.0	70,949	111	7,875,387	19,688,467	1,052,453	
France	3,155	18.0	146,795	85	12,510,673	31,326,683		5,953	18.0	107,161	111	11,894,831	29,737,078	1,589,405	
Germany	9,968	13.0	129,589	84	10,862,613	27,156,531		7,277	13.0	94,600	109	10,311,413	25,778,532	1,378,000	
Switzerland	4,236	15.0	63,534	85	5,423,357	13,558,392		3,092	15.0	46,380	111	5,148,160	12,870,400	687,901	
East/Med Europe	236	15.5	3,659	92	337,636	844,140		172	15.5	2,671	120	320,522	801,506	42,834	
Middle East	45	15.5	700	92	64,567	161,419		33	15.5	511	120	61,291	153,228	8,191	
South Asia	362	15.5	5,609	105	590,924	1,477,311		264	15.5	4,094	137	560,939	1,402,348	74,965	
Africa	62	15.5	958	92	88,383	220,958		45	15.5	699	120	83,898	209,746	11,212	
	14,252		1,558,541		168,653,673	421,634,183		103,114		1,137,735		160,095,705	400,239,262	21,594,921	

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (15/19)

Country/Region	2011 With project/program						2011 Without project/program						
	Leisure Tourist	ALS	Tourist- Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist- Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas USA	2,809 10,647	17.0 17.0	47,757 180,995	133 133	6,353,666 24,079,677	15,884,166 60,199,192	2,051 7,772	17.0 17.0	34,863 132,126	173 173	6,031,263 22,857,806	15,078,158 57,144,514	806,008 3,054,679
East Asia/Pacific Japan	1,732 66,840	6.0 7.0	10,390 467,880	105 138	1,094,607 64,765,835	2,736,518 161,914,588	1,264 48,793	6.0 7.0	7,584 341,552	137 180	1,039,064 61,479,432	2,597,660 153,698,580	138,859 8216,008
Korea rep	2,909	6.0	17,456	105	1,639,138	4,597,844	2,124	6.0	12,743	137	1,745,815	4,364,536	233,308
China	65	6.0	390	38	14,996	37,490	47	6.0	285	50	14,235	35,588	1,902
Australia	2,758	15.0	41,374	85	3,531,776	8,829,440	2,014	15.0	30,203	111	3,352,564	8,381,409	448,031
Gen/East Europe Russian Fed	1,856 13	7.0 6.5	12,994 82	87 53	1,129,175 4,378	2,822,938 10,944	1,355 9	7.0 6.5	9,486 60	113 69	1,071,878 4,155	2,679,694 10,389	143,244 555
Northern Europe UK	10,651 6,770	15.0 15.0	159,764 101,548	55 79	13,637,714 8,043,515	34,094,284 20,108,787	7,775 4,942	15.0 15.0	116,628 74,130	111 103	12,945,697 7,635,264	32,364,243 19,088,410	1,730,041 1,020,377
Southern Europe	4,658	15.0	69,875	85	5,964,655	14,911,638	3,401	15.0	51,009	111	5,661,992	14,154,979	756,659
Western Europe	6,479	15.0	97,191	85	8,296,368	20,740,920	4,730	15.0	70,949	111	7,875,387	19,688,467	1,052,453
France	8,155	18.0	146,795	85	12,530,673	31,326,683	5,953	18.0	107,161	111	11,894,831	29,737,078	1,589,605
Germany	9,968	13.0	129,589	84	10,862,613	27,156,531	7,277	13.0	94,660	109	10,311,413	25,778,532	1,378,000
Switzerland	4,236	15.0	63,534	85	5,423,357	13,558,392	3,092	15.0	46,380	111	5,148,160	12,870,300	687,991
East/Med Europe	236	15.5	3,659	92	337,656	844,140	172	15.5	2,671	120	320,522	801,306	42,834
Middle East	45	15.5	700	92	64,567	161,419	33	15.5	511	120	61,291	153,228	8,191
South Asia	362	15.5	5,609	105	590,924	1,477,311	264	15.5	4,094	137	560,929	1,402,348	74,963
Africa	62	15.5	958	92	88,383	220,958	45	15.5	699	120	83,898	209,746	11,212
	141,252		1,538,541		168,653,673	421,634,183	103,114		1,147,735		160,095,705	400,239,262	21,394,921

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (16/19)

Country/Region	2012 With project/program							2012 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5		Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas	2,899	17.0	49,282	130	6,422,454	16,063,634		2,087	17.0	35,483	173	6,138,627	15,346,567	3,177,067
USA	11,639	17.0	198,181	330	25,838,881	64,597,205		8,394	17.0	142,690	173	24,685,455	61,713,638	2,883,565
East Asia/Pacific	11,909	6.0	11,434	103	1,182,644	2,956,611		1,375	6.0	8,247	137	1,129,852	2,824,630	331,981
Japan	73,623	7.0	315,373	136	69,912,213	174,783,032		53,010	7.0	371,069	180	66,792,346	166,980,865	7,802,167
Korea rep	3,126	6.0	18,755	103	1,936,444	4,841,111		2,251	6.0	13,504	137	1,850,003	4,625,008	216,103
China	80	6.0	480	38	19,087	45,219		58	6.0	346	50	17,280	43,200	2,019
Australia	3,095	15.0	46,424	84	3,883,548	9,708,871		2,228	15.0	33,425	111	3,710,190	9,275,475	433,396
Cen/East Europe	1,959	7.0	13,711	85	1,167,089	2,919,223		1,410	7.0	9,872	113	1,115,564	2,788,911	130,312
Russian Fed	13	6.5	84	52	4,377	10,941		9	6.5	61	69	4,181	10,453	488
Northern Europe	11,853	15.0	177,796	84	14,873,371	37,183,428		8,534	15.0	128,013	111	14,209,436	35,523,591	1,659,837
UK	2,293	15.0	109,400	78	8,492,173	21,230,431		5,251	15.0	78,768	103	8,113,089	20,282,723	947,709
Southern Europe	5,134	15.0	77,008	84	6,442,026	16,105,065		3,696	15.0	55,446	111	6,154,459	15,386,148	718,917
Western Europe	7,069	15.0	106,028	84	8,869,714	22,174,286		5,089	15.0	76,340	111	8,473,778	21,184,444	989,841
France	9,121	18.0	164,174	84	13,733,887	34,334,718		6,567	18.0	118,206	111	13,120,818	32,802,045	1,532,073
Germany	11,390	15.0	148,066	82	12,163,203	30,408,008		8,201	15.0	106,608	109	11,620,248	29,050,620	1,357,383
Switzerland	4,472	15.0	67,153	84	5,617,613	14,044,033		3,223	15.0	48,350	111	5,366,848	13,417,119	626,914
East/Med Europe	250	15.5	3,877	90	350,612	876,329		180	15.5	2,791	120	334,961	837,402	39,128
Middle East	48	15.5	740	90	66,907	167,267		34	15.5	533	120	63,920	159,800	7,467
South Asia	384	15.5	5,947	103	614,042	1,535,104		276	15.5	4,282	137	586,631	1,466,578	68,526
Africa	65	15.5	1,015	90	91,802	229,505		47	15.5	731	120	87,704	219,261	10,245
	153,446		1,214,950		31,685,688	454,214,219		111,921		1,234,764		173,575,392	433,938,479	20,275,740

Source: JICA Study Teams

Table A20.1.1: Economic Benefit Generation (Conservative Case) (16/19)

Country/Region	2012						2012						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas	2,899	17.0	49,282	130	6,425,554	16,063,634	2,087	17.0	35,483	173	6,138,623	15,346,567	71,067
USA	11,658	17.0	198,181	130	25,838,881	64,597,203	8,396	17.0	142,699	173	24,685,455	61,713,638	2,883,565
East Asia/Pacific	1,909	6.0	11,454	103	1,182,644	2,936,611	1,628	6.0	8,237	187	1,129,852	2,824,630	131,981
Japan	73,625	7.0	515,373	136	69,912,213	174,783,032	53,910	7.0	371,699	180	66,792,346	166,980,865	7,802,167
Korea rep	3,126	6.0	18,755	103	1,936,444	4,841,111	2,281	6.0	13,504	137	1,850,063	4,625,008	216,103
China	80	6.0	480	38	18,087	45,219	58	6.0	346	50	17,280	43,200	2,019
Australia	3,095	15.0	46,424	84	3,883,548	9,708,871	2,228	15.0	33,425	111	3,710,190	9,275,475	453,396
Central Europe	1,959	7.0	13,711	85	1,167,689	2,919,223	1,410	7.0	9,872	113	1,115,564	2,788,911	130,312
Russian Fed	13	6.5	84	52	4,377	10,941	9	6.5	61	69	4,181	10,453	488
Northern Europe	11,853	15.0	177,796	84	14,873,371	37,183,428	8,533	15.0	128,013	111	14,299,436	35,523,591	1,659,837
UK	7,293	15.0	109,400	78	8,492,173	21,230,431	5,251	15.0	78,768	103	8,113,089	20,282,723	947,709
Southern Europe	5,134	15.0	77,008	84	6,442,026	16,105,065	3,096	15.0	55,446	111	6,154,459	15,386,148	718,917
Western Europe	7,069	15.0	106,028	84	8,869,714	22,174,286	5,089	15.0	76,340	111	8,473,778	21,184,444	989,841
France	9,121	18.0	164,174	84	13,733,887	34,334,718	6,567	18.0	118,296	111	13,120,818	32,802,045	1,532,672
Germany	11,390	13.0	148,066	82	12,165,203	30,408,008	8,201	13.0	106,608	109	11,620,248	29,050,620	1,357,388
Switzerland	4,477	15.0	67,153	94	5,617,613	14,044,033	3,223	15.0	48,350	111	5,366,848	13,417,119	626,914
East/Med Europe	250	15.5	3,877	90	350,612	876,529	180	15.5	2,791	120	334,961	837,402	39,128
Middle East	48	15.5	740	90	66,907	167,267	34	15.5	533	120	63,920	159,800	7,467
South Asia	384	15.5	5,947	103	614,042	1,535,104	276	15.5	4,282	137	586,631	1,466,578	68,526
Africa	65	15.5	1,015	90	91,802	229,505	47	15.5	731	120	87,764	219,261	10,245
	155,446		1,714,950		181,685,688	454,214,219	111,921		1,234,764		173,575,392	433,938,479	20,275,740

Source: JICA Study Teams

Table A.20.1.1 Economic Benefit Generation (Conservative Case) (17/19)

Country/Region	2013 With project/program							2013 Without project/program						
	Leisure Tourist	ALS	Tourist Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit	Leisure Tourist	ALS	Tourist Nights	Expenditure	Direct Benefit	Direct Benefit/ALS	Economic Benefit
Americas	3,281	17.0	55,774	128	7,126,152	17,815,879	990,370	2,297	17.0	39,042	173	6,754,204	16,885,509	990,370
USA	13,103	17.0	222,777	128	28,464,744	71,161,859	3,716,371	9,173	17.0	155,944	173	26,978,275	67,445,688	3,716,371
East Asia/Pacific	2,116	6.0	12,697	101	1,284,717	3,211,792	167,724	1,481	6.0	8,888	137	1,217,627	3,044,067	167,724
Japan	11,094	7.0	367,660	133	75,466,062	188,665,155	9,852,356	56,766	7.0	397,362	180	71,525,120	178,812,799	9,852,356
Korea rep	3,383	6.0	20,297	101	2,053,747	5,134,368	268,124	2,368	6.0	14,208	137	1,946,498	4,866,244	268,124
China	35	6.0	510	37	18,334	47,084	2,459	60	6.0	357	50	17,850	44,625	2,459
Australia	1,470	15.0	52,053	82	4,267,354	10,668,384	571,118	2,429	15.0	36,437	111	4,044,506	10,111,266	571,118
Central Europe	2,068	7.0	14,473	83	1,207,885	3,019,714	157,694	1,447	7.0	10,131	113	1,144,808	2,862,020	157,694
Russian Fed	13	6.5	86	51	4,376	10,939	571	9	6.5	60	69	4,147	10,368	571
Northern Europe	13,235	15.0	198,525	82	16,275,312	40,688,280	2,124,796	9,265	15.0	138,968	111	15,425,593	38,563,481	2,124,796
UK	8,048	15.0	120,715	76	9,183,121	22,957,803	1,198,888	5,633	15.0	84,501	103	8,703,566	21,758,915	1,198,888
Southern Europe	3,524	15.0	82,866	82	6,792,391	16,981,477	886,756	3,867	15.0	57,999	111	6,437,872	16,094,681	886,756
Western Europe	7,904	15.0	118,559	82	9,719,565	24,298,911	1,268,923	5,533	15.0	82,991	111	9,211,995	23,029,989	1,268,923
France	10,187	18.0	133,666	82	15,032,559	37,581,398	1,962,553	7,131	18.0	128,356	111	14,247,538	35,618,846	1,962,553
Germany	12,646	15.0	164,403	81	13,235,079	33,087,697	1,727,885	8,852	13.0	115,082	109	12,543,924	31,359,811	1,727,885
Switzerland	4,981	15.0	74,722	82	6,125,777	15,314,441	799,741	3,487	15.0	52,305	111	5,805,880	14,514,700	799,741
East/Med Europe	263	15.5	4,112	89	364,439	911,098	47,579	186	15.5	2,878	120	345,408	863,519	47,579
Middle East	31	15.5	786	89	69,635	174,087	9,091	35	15.5	550	120	65,998	164,996	9,091
South Asia	407	15.5	6,303	101	637,739	1,594,347	83,250	285	15.5	4,412	137	604,435	1,511,088	83,250
Africa	70	15.5	1,078	89	95,557	238,893	12,475	49	15.5	755	120	90,567	226,418	12,475
	171,302		1,901,749		197,425,442	493,563,606	25,774,576	120,352		1,331,224		187,115,612	467,789,030	25,774,576

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (17/19)

Country/Region	2013												
	With project/program					Without project/program							
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americas	3,281	17.0	55,774	128	7,126,352	17,815,879	2,297	17.0	39,042	173	6,754,204	16,885,509	930,370
USA	13,105	17.0	222,777	128	28,464,744	71,161,859	9,173	17.0	155,944	173	26,978,275	67,445,688	3,716,171
East Asia/Pacific	2,116	6.0	12,697	101	1,284,717	3,211,792	1,481	6.0	8,888	137	1,217,627	3,044,067	167,724
Japan	81,094	7.0	567,660	133	75,466,062	188,665,155	56,766	7.0	397,362	180	71,525,120	178,812,799	9,852,356
Korea rep	3,383	6.0	20,297	101	2,053,747	5,134,368	2,368	6.0	14,208	137	1,946,398	4,866,244	268,124
China	85	6.0	510	37	18,834	47,084	60	6.0	357	50	17,850	44,625	2,459
Australia	3,470	15.0	52,053	82	4,267,354	10,668,384	2,429	15.0	36,437	111	4,044,506	10,111,266	557,118
Cent/East Europe	2,068	7.0	14,473	83	1,207,885	3,019,714	1,447	7.0	10,131	113	1,144,808	2,862,020	157,694
Russian Fed	13	6.5	86	51	4,376	10,939	9	6.5	60	69	4,147	10,368	571
Northern Europe	13,235	15.0	198,525	82	16,275,312	40,688,280	9,265	15.0	138,988	111	15,325,393	38,563,481	2,124,798
UK	8,048	15.0	120,715	76	9,183,121	22,957,803	5,633	15.0	84,501	103	8,703,566	21,758,915	1,198,888
Southern Europe	5,524	15.0	82,856	82	6,792,591	16,981,477	3,867	15.0	57,999	111	6,437,872	16,094,681	886,796
Western Europe	7,904	15.0	118,559	82	9,719,565	24,298,911	5,533	15.0	82,991	111	9,211,995	23,029,989	1,268,923
France	10,187	18.0	183,366	82	15,032,559	37,581,398	7,131	18.0	128,356	111	14,247,538	35,618,816	1,962,553
Germany	12,646	13.0	164,403	81	13,235,079	33,087,697	8,852	13.0	115,082	109	12,543,924	31,359,811	1,727,885
Switzerland	4,981	15.0	74,722	82	6,125,777	15,314,441	3,487	15.0	52,305	111	5,805,880	14,514,709	799,741
East/Med Europe	265	15.5	4,112	89	364,439	911,098	186	15.5	2,878	120	345,408	863,519	47,379
Middle East	51	15.5	786	89	69,635	174,087	35	15.5	550	120	65,998	164,996	9,091
South Asia	407	15.5	6,303	101	637,759	1,594,347	285	15.5	4,412	137	604,435	1,511,088	83,259
Africa	70	15.5	1,078	89	95,557	238,893	49	15.5	755	120	90,567	226,418	12,475
	171,932		1,901,749		197,425,442	493,563,606	120,352		1,331,224		187,115,612	467,789,030	25,774,576

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (18/19)

Country/Region	2014												
	With project/program					Without project/program							
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit %2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit %2.5	Economic Benefit
Americas													
USA	3,774	17.0	63,304	125	7,926,791	19,816,978	2,588	17.0	43,997	173	7,611,408	19,028,520	788,458
	14,078	17.0	239,331	125	29,968,345	74,920,862	9,784	17.0	166,335	173	28,775,995	71,939,988	2,980,874
East Asia/Pacific													
Japan	2,361	6.0	14,169	99	1,404,972	3,512,431	1,641	6.0	9,847	137	1,349,073	3,372,682	139,749
Korea rep	89,123	7.0	625,262	130	81,461,521	203,653,301	62,080	7.0	434,557	180	78,220,221	195,550,553	8,102,748
China	3,691	6.0	22,143	99	2,195,748	5,489,370	2,565	6.0	15,390	137	2,108,386	5,270,964	218,403
Australia	38	6.0	578	36	19,108	47,771	61	6.0	367	50	18,348	45,870	1,901
	3,887	15.0	49,306	80	4,684,386	11,710,966	2,702	15.0	40,523	111	4,498,009	11,245,022	465,944
Cent/East Europe													
Russian Fed	2,183	7.0	15,284	82	1,250,032	3,125,079	1,517	7.0	10,622	113	1,200,297	3,000,742	124,337
	13	6.5	88	50	4,375	10,938	9	6.5	61	69	4,201	10,503	435
Northern Europe													
UK	14,375	15.0	218,628	80	17,564,912	43,912,279	10,130	15.0	151,946	111	16,866,057	42,165,143	1,747,133
Southern Europe	8,887	15.0	133,310	75	9,938,491	24,846,002	6,177	15.0	92,650	103	9,542,982	23,857,455	988,547
Western Europe	8,382	15.0	95,724	80	7,680,614	19,226,516	4,435	15.0	66,528	111	7,384,628	18,461,570	764,966
France	8,744	18.0	131,163	80	10,338,019	26,345,048	6,077	15.0	91,160	111	10,118,743	25,296,858	1,043,190
Germany	11,296	13.0	203,326	80	16,335,541	40,839,854	7,851	18.0	141,312	111	15,685,600	39,213,999	1,624,854
Switzerland	15,761	13.0	178,890	79	14,113,330	35,283,374	9,564	13.0	124,328	109	13,551,803	33,879,507	1,403,817
	5,544	15.0	83,159	80	6,681,083	16,702,706	3,853	15.0	57,795	111	6,415,262	16,038,156	664,550
East/Med Europe													
Middle East	281	15.5	4,359	87	378,569	946,423	195	15.5	3,029	120	363,507	908,768	37,635
South Asia	54	15.5	832	87	72,227	180,568	37	15.5	578	120	69,353	173,383	7,184
Africa	431	15.5	6,681	99	662,517	1,656,293	300	15.5	4,643	137	636,158	1,590,394	63,899
	74	15.5	1,147	87	99,624	249,059	51	15.5	797	120	95,660	239,150	9,909
	189,378		2,095,633		212,989,915	532,474,788	131,618		1,456,466		204,515,691	511,289,227	21,185,560

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (18/19)

Country/Region	2014						2014						
	With project/program			Without project/program			With project/program			Without project/program			
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit X 2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit X 2.5	Economic Benefit
Americas	3,724	17.0	63,304	125	7,926,791	19,816,978	2,588	17.0	43,997	173	7,611,408	19,028,520	788,458
USA	14,078	17.0	239,331	125	29,968,345	74,920,862	9,781	17.0	166,335	173	28,775,995	71,939,988	2,980,874
East Asia/Pacific	2,361	6.0	14,169	99	1,404,972	3,512,431	1,641	6.0	9,867	137	1,849,073	3,372,682	139,749
Japan	89,323	7.0	625,262	130	81,461,321	203,653,301	62,080	7.0	434,557	180	28,220,221	195,550,553	8,102,748
Korea rep	3,691	6.0	22,143	99	2,195,748	5,489,370	2,565	6.0	15,300	137	2,108,386	5,270,964	218,405
China	88	6.0	528	36	19,108	47,771	61	6.0	367	50	18,348	45,870	1,901
Australia	3,887	15.0	58,306	80	4,684,386	11,710,966	2,702	15.0	40,523	111	4,498,009	11,245,022	465,944
Gen/East Europe	2,183	7.0	15,284	82	1,250,032	3,125,079	1,517	7.0	10,622	113	1,200,297	3,000,742	124,337
Russian Fed	15	6.5	88	50	4,375	10,938	9	6.5	61	69	4,201	10,503	435
Northern Europe	14,575	15.0	218,628	80	17,564,912	43,912,279	10,130	15.0	151,946	131	16,866,057	42,165,143	1,747,137
UK	8,887	15.0	133,310	75	9,938,401	24,846,002	6,177	15.0	92,650	103	9,542,982	23,857,555	988,547
Southern Europe	6,382	15.0	95,724	80	7,690,614	19,226,536	4,435	15.0	66,528	111	7,384,628	18,461,570	764,966
Western Europe	8,744	15.0	131,165	80	10,538,019	26,345,048	6,977	15.0	91,160	111	10,118,743	25,296,858	1,048,190
France	11,296	18.0	203,326	80	16,335,841	40,838,854	7,851	18.0	141,312	131	15,685,660	39,213,990	1,624,854
Germany	13,761	13.0	178,890	79	14,113,350	35,283,324	9,564	13.0	124,328	109	13,551,803	33,879,507	1,403,817
Switzerland	5,544	15.0	83,159	80	6,681,083	16,702,706	3,853	15.0	57,795	111	6,415,262	16,038,156	664,550
East/Med Europe	281	15.5	4,359	87	378,569	946,423	195	15.5	3,029	120	363,507	908,768	37,657
Middle East	54	15.5	832	87	72,227	180,568	37	15.5	578	120	69,353	173,383	7,184
South Asia	431	15.5	6,681	99	662,517	1,656,293	300	15.5	4,643	137	636,158	1,590,394	65,899
Africa	74	15.5	1,147	87	99,624	249,059	51	15.5	797	120	95,660	239,150	9,909
	189,378		2,095,635		212,989,915	532,474,788	131,618		1,450,466		204,515,091	511,289,227	21,185,560

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (19/19)

Country/Region	2015 With project/program						2015 Without project/program						
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct Benefit(X2.5)	Economic Benefit
Americas	4,239	17.0	73,769	123	9,052,405	22,631,013	2,959	17.0	50,311	173	8,703,723	21,759,308	871,705
USA	15,767	17.0	268,034	123	32,891,133	82,227,834	10,753	17.0	182,799	173	31,624,228	79,060,569	3,167,264
East Asia/Pacific	2,655	6.0	15,928	97	1,547,873	3,869,684	1,811	6.0	10,863	137	1,488,252	3,720,631	149,053
Japan	98,280	7.0	688,661	128	87,576,818	219,817,045	67,095	7.0	499,667	180	84,540,039	211,350,098	8,466,947
Korea rep	4,060	6.0	24,362	97	2,467,403	5,918,507	2,769	6.0	16,615	137	2,276,215	5,690,537	227,970
China	65	6.0	390	35	13,832	34,579	44	6.0	266	50	13,299	33,248	1,332
Australia	4,352	15.0	65,274	79	5,139,330	12,848,325	2,968	15.0	44,517	111	4,941,372	12,353,431	494,894
Cen/East Europe	2,306	7.0	16,143	80	1,293,953	3,234,883	1,573	7.0	11,010	113	1,244,113	3,110,282	124,502
Russian Fed	14	6.5	89	49	4,375	10,937	9	6.5	61	69	4,206	10,516	421
Northern Europe	16,233	15.0	243,494	79	19,171,392	47,928,479	11,071	15.0	166,063	111	18,432,945	46,082,362	1,846,117
UK	9,501	15.0	142,514	73	10,412,122	26,030,306	6,480	15.0	97,195	103	10,011,067	25,027,666	1,002,639
Southern Europe	7,129	15.0	106,931	79	8,419,143	21,047,856	4,862	15.0	72,927	111	8,094,853	20,237,132	810,725
Western Europe	9,822	15.0	147,325	79	11,599,572	28,998,931	6,698	15.0	100,475	111	11,152,778	27,881,946	1,116,985
France	12,745	18.0	229,406	79	18,062,248	45,155,619	8,692	18.0	156,455	111	17,266,523	43,416,308	1,739,311
Germany	15,641	13.0	203,336	77	15,721,150	39,302,875	10,667	13.0	138,675	109	15,115,600	37,789,001	1,513,974
Switzerland	6,174	15.0	92,606	79	7,291,268	18,228,169	4,210	15.0	63,157	111	7,010,422	17,526,054	702,115
East/Med Europe	298	13.5	4,622	85	393,453	983,633	203	13.5	3,152	120	378,298	945,745	37,888
Middle East	57	15.5	883	85	75,176	187,940	39	15.5	602	120	72,280	180,701	7,239
South Asia	457	15.5	7,083	97	688,279	1,720,696	312	15.5	4,830	137	661,767	1,654,418	66,278
Africa	78	15.5	1,216	85	103,489	258,722	53	15.5	829	120	99,503	248,757	9,966
	210,072		2,332,066		232,174,414	580,436,035	143,269		1,590,469		223,231,484	558,078,709	22,357,326

Source: JICA Study Teams

Table A20.1.1 Economic Benefit Generation (Conservative Case) (19/19)

Country/Region	2015												
	With project/program					Without project/program							
	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Leisure Tourist	ALS	Tourist-Nights	Expenditure	Direct Benefit	Direct BenefitX2.5	Economic Benefit
Americus	4,339	17.0	73,769	123	9,052,405	22,631,013	2,989	17.0	50,311	173	8,703,723	21,759,308	871,705
USA	15,767	17.0	268,034	123	32,891,133	82,227,834	10,753	17.0	182,799	173	31,624,228	79,060,569	3,167,264
East Asia/Pacific	2,655	6.0	15,928	97	1,547,873	3,869,684	1,811	6.0	10,863	137	1,488,252	3,720,631	149,053
Japan	98,380	7.0	688,661	128	87,926,818	219,817,045	67,095	7.0	469,667	180	83,540,039	211,350,098	8,466,947
Korea rep	4,060	6.0	24,362	97	2,367,403	5,918,507	2,769	6.0	16,615	137	2,276,215	5,690,537	227,970
China	65	6.0	390	35	13,832	34,579	44	6.0	266	50	13,289	33,248	1,332
Australia	4,352	15.0	65,274	79	5,139,330	12,848,325	2,968	15.0	44,517	111	4,941,372	12,353,431	494,894
Cent/East Europe	2,306	7.0	16,143	80	1,293,953	3,234,883	1,573	7.0	11,010	113	1,244,113	3,110,282	124,602
Russian Fed	14	6.5	89	49	4,375	10,937	6	6.5	61	69	4,206	10,516	421
Northern Europe	16,233	15.0	243,494	79	19,171,392	47,928,479	11,071	15.0	166,063	111	18,432,945	46,082,362	1,846,117
UK	9,501	15.0	142,514	73	10,412,122	26,030,306	6,480	15.0	97,195	103	10,911,067	25,027,666	1,002,639
Southern Europe	7,129	15.0	106,931	79	8,419,143	21,047,856	4,862	15.0	72,927	111	8,094,853	20,237,132	810,725
Western Europe	9,822	15.0	147,325	79	11,599,572	28,998,931	6,698	15.0	100,475	111	11,152,778	27,881,946	1,116,985
France	12,745	18.0	229,406	79	18,062,248	45,155,619	8,692	18.0	156,455	111	17,366,523	43,416,308	1,739,311
Germany	15,641	13.0	203,336	77	15,721,150	39,302,875	10,667	13.0	138,675	109	15,115,600	37,789,001	1,513,874
Switzerland	6,174	15.0	92,606	79	7,291,268	18,228,169	4,210	15.0	63,157	111	7,010,422	17,526,054	702,115
East/Med Europe	298	15.5	4,622	85	393,453	983,633	203	15.5	3,152	129	378,298	945,745	37,888
Middle East	57	15.5	883	85	75,176	187,940	39	15.5	602	129	72,280	180,791	7,239
South Asia	457	15.5	7,083	97	688,279	1,720,696	312	15.5	4,830	137	661,767	1,654,418	66,278
Africa	78	15.5	1,216	85	103,489	258,722	53	15.5	829	129	99,503	248,757	9,966
	210,072		2,332,066		232,174,414	580,536,035	143,269		1,590,469		223,231,484	558,078,709	22,357,226

Source: JICA Study Teams

