Table A12.1.4 Projection of Tourist-Nights to 2015	Projectio	in of Touri	ist-Nights	ి	Without	"Without project/program"		case) (1/23	()				ļ	
Country/Revion	1997	Leisure	ALS	Tourist-	VFR	ALS	Tourist-	Business	ALS	Tourist-	Other	VIS	Tourist-	Total
				Nights			Nights			Nights			Nights	Tourist- Nights
	104	301	17 0	\$ 124	16	16.5	1.504	245	15.5	3,803	63	24.5	1,546	11,977
Allicited Allici	4318		17.0	31.565	561	16.5	9.262	1,511	15.5	23,425		24.5	9.521	73,773
East Acia/Dacific	1 650		7.0	4.505	116	14.5	1.675	842	10.5	8,836	50	20.5	1,015	16,030
Tanan	11 077	0	8.0	77.982	111	14.5	1,606	1,108	10.5	11,631		20.5	2,271	93,490
Vores ren	200 5		7.0	8.993	231	14.5	3,345	1,680	10.5	17,639		20.5	2,026	32,001
China	32.531		7.0	455	651	14.5	9,434	31,165	1.5	46,748		20.5	13,338	69,974
Australia	1.004	(°)	15.0	, vi	141	16.5	2.319	442	14.5	6,406				15.527
Can/East Rurane	953 6		2.0	6.573	355	· · · 16.5		1.117	14.5	16,192			3,109	31,738
Russian Fed	8.708		6.5	57	1,306	16.0	20,899	6.958	13.5	93,935	435	24.0		125.341
Northern Furne	002 0	1 525	15.0	23.018	279				14.5	.:		x -	2,734	42,896
	5, 50		15.0	11.986	275				14.5		: : :			38,654
Southern Furone	1.139		15.0	9.397	114				14.5					17,512
Western Europe	1.579		15.0	13.027	158				14.5	•	-			24.277
France	1.816		18.0	22,882	91				16.5					32,307
Germany	3.339			<u>,</u>	534				14.0	·				49,067
Switzerland	1,088		15.0	8,976	109		1,795		14.5				-	10.128
Fact/Med Furnne	329	122	15.5	1.887	46	17.0			15.5	2,244	16			5,325
Middle East	63		15.5		6	17.0			15.5	430				1,020
South Asia	504		15.51	67 	71	17.0		222	15.5	3,437	2		630	8,157
Africa	õ				11	17.0			15.5	552	4	25.0	Į	1.311
	81,046	22,747		254,812	<u></u>		83,959	50,317		305,410	2,725		62,922	707,103

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Country/Region	AAG of Total (1990-1997)	AAG of Leisure	AAG of Business	Proportion of Proportion of Total Leisure Business	Proportion of Leisure	Proportion of Business
		(1990-1997)	(2661-0661)			
A mericas	32.1%	32.0%	32.0%	%6.0	1.3%	0.5%
USA	27.2%	27.2%	27.2%	5.3%	8.2%	3.0%
East Asia/Pacific	49.3%	49.3%	25.7%	2.0%	2.8%	1.7%
lanan	30.7%	31.8%	23.4%	13.7%	4	
Korea ren	47.3%	47.3%	47.3%	41%		
China	-1.9%	0.0%	-1.9%	40.1%		Ŷ
Australia	19.0%	19.0%	19.1%	1.2%	1.6%	0.9%
Cen/Fast Furone	-16.3%	6.2%	-22.3%	3.1%		
Russian Fed	-31.6%	-31.3%	-32.1%	10.7%	0.0%	20 20 I 3.8%
Northern Europe	12.3%	12.3%	12.3%	3.4%		
	%6.61	19.9%		3.1%		
Southern Europe	29.9%	29.9%	29.9%			
Western Europe	27.4%	27.4%	27.3%			
France	22.7%	22.7%	22.8%			
Germany	15.7%	22.6%				
Switzerland	52.7%	31.5%	52.7%	1.3%	2.6%	0.7%
East/Med Europe	26.4%	26.7%	26.3%	0.4%		
Middle East	54.7%	56.5%	58.7%			
South Asia	-6.4%	-6.4%	26.0%			
Africa	243.4%	210.7%	230.2%	0.1%	0.1%	0.1%
	702 2-	3110%	-10%	%0.001	100.0%	100.0%

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Study
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ſ	<u>م</u> ٹر	24	85	<u>4 ü</u>	5	8	8	15	18	37	38	11	20	5	5,534	58	8	52	3
	Total Tourist- Nights	13,676 84.324	15,5	32.9	73,857					20,037					5 5 5	1.0	8°.4	 	754,541
	Tourist- Nights	1,544	286	2,050	13,325	3 038	10,492	2,744	3,675	1,127	1,593	1,323	5,758	1,226	428	8	655	105	63,362
	ALS	24.5 24.5	20.5	20.5	20.5	24 5	24.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	25.0	25.0	25.0	25.0	
	Other	63 393	48	100	650	174	437	112	150	46	65	2	235	50	17	Ω.	26	4	2,742
	Tourist- Nights	4,748 29,094	8,762	11,135	50,652	890.06	94.460	15,341	22,156	5,800	8,613	7,953	18,872	5,858	2,356	450	3,574	573	336,700
6	ALS	15.5	10.5	10.5	1.5	14.0	13.5	14.5	14.5	14.5	14.5	16.5	14.0	14.5	15.5	15.5	15.5	15.5	
, case) (3/23)	Business	306 1.877	834	1,061	33,768	1 284	6.997	1,058	1,528	400	594	482	1,348	404	152	29	231	37	54,787
rogram" (Tourist- Nights	1,485 7.607	1,621	3.350	9,425	2.210	20,800	3,795	2,640	1,650	2,607	1,485	4,950	1,073	782	157	1.247	200	74,476
"Without project/program"	ALS	16.5	14.5	14.5	14.5	10.01	16.0	16.5	16.5	I6.5	16.5	16.5	16.5	16.5	17.0	17.0	17.0	17.0	
'Without	VFR	90 461	112	331	650	140	1300	230	160	100	158	8	300	65	46	6	12	12	4,681
\sim	Tourist- Nights	5,899	4,220	73,920	455	0.400	57	27,135	15,510	11,460	14,985	26,316	24,570	10.980	1,969	369	3,007	474	280,004
st-Nights	ALS	17.0	7.0	8.0 7 8	0.4	0.01	6.5	15.0	15.0	15.0	15.0	18.0	13.0	15.0	15.5	15.5	15.5	15.5	
a of Touri	Leisure	347 2.235	603	9,240	65	427	6	1.809	1,034	764	666	1,462	1,890	732	127	24	194	31	24,031
Projection	1998	806 4 966	1,597	10,500	35,133	1,155	8,743	3.209	2.872	1,310	1,816	2,088	3,773	1.251	342	8	524	84	86,240
Table A12.1.4 Projection of Tourist-Nights to 2015	Country/Region	Americas	East Asia/Pacific	Japan Kores ren	China	Australia	Centeast Europe Russian Fed	Northern Europe	N	Southern Europe	Western Europe	France	Germany	Switzerland	East/Med Europe	Middle East	South Asia	Africa	

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Table A12.1.4 Projection of Tourist-Nights to 2015	1 Projectio	n of Tour	ist-Nights	to 2015 ('	'Without	project/p.	rogram"	Without project/program" case) (4/23)						e alu
Country/Region	6661	Leisure	ALS	Tourist-	VFR	ALS	Tourist-	Business	ALS	Tourist- Nichts	Other	ALS	Tourist- Nights	Total Tourist-
				Sugn			Sindin			0				Nights
Amonioco	ove	370	17.0	6 444	95	16.5	1.568	369	15.5	5,720	65	24.5	1,593	15,324
Alifericas 11SA	7 350	4	17.0	72.966	465	16.5	7.673	2.200	15.5	34,100	393	24.5		124,367
Fact Acia/Pacific	1.650		7.0	4.365	118	14.5	1,708		10.5	9,012	50	20.5	1,035	16,121
lanan	15.405	13	8.0	107.770	161	14.5	2,337		10.5	17,819	76	20.5	 	129,483
Korea ren	3,373		7.0	8.922	241	14.5			10.5	18,421	103	20.5	ية. 1	32,950
China	37.941		7.0	432	660	14.5			1.5	54,839	660	20.5		78,371
Australia	1,303	ч	15.0	7.002	150		÷.,			8.990	99			20.094
Cen/East Furne	2 702	822	7.0	5.757	а					20,039	137		3,363	35,098
Russian Fed	8.778		6.5	54	1.317	16.0	21,067	7,014	13.5	94.690	439		-	126.345
Northann Firence	3 587	1 957	15.0	29.348			× .			18,212	-			54,731
	020 0		15.0			• •			-	24,795				49,470
Southern Furne	464		15.0							7,294				22,387
Western Furne	2 031	-	15.0	16,365	, 14 	· .: ·.				10,339			 	30,985
France	2.318		18.0		• •					9,158				41,176
Germany	4,160		13.0			 	5,775		14.0	22,232			6,125	59,773
Switzerland	1.395		15.0	12.561	70					6,2351				105.12
East/Med Europe	348	125	15.5	1,934	50	17.0	845	156	15.5	2,421	13	25.0	44	1000
Middle East	67		15.5	370	10	 			15.5	404	••			1.051
South Asia	535	192	15.5	2,969	76		-		15.5	3,717	5			000.0
Africa	86		15.5						15.5	600	4			66 <u>5</u> .1
	98.641	31.226		362,134	4,923		78.290	59,673		369,094	2,819			874,823

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Table A12.1.4 Projection of Tourist-Nights to 2015	Projectio	n of Tour	ist-Niehts	ా	"Without project/program"	project/p:		case) (5/23)	(Ĩ
Country/Region	2000	Leisure	ALS	Tourist-	VFR	ALS	Tourist-	Business	ALS	Tourist-	Other	ALS	Tourist-	Total Tourist-
				Nights		•	Stagin							Nights
	000	121	0 21	7 332	100	5 91	1.650	412	15.5	6,386	96		2,353	17,721
Americas	7.650	4	17.0	72.620	465	16.5	7,673	2,500	15.5	38,750	413	24.5	10,118	129,161
COM East Asia/Dacific	1 660		2.0	4.363	119	14.51	1.726	867	10.5	9,104	51	20.5	1,046	16,237
Janan	17.553	15		122,631	165	14.5	2.393	1,959	10.5	20,570	001		2,050	147,643
Korea ren	3,434			9,023	246	14.5	3,569		10.5	18,828	105	с.	2,162	53,582
China	40.976		7.0	428	680	14.5	9.860		1.5	59,348	670		13,735	83,370
Australia	1.481	~	15.0	10.786	100	16.5	1.650		14.5	8.773	57		1,397	C00.22
Con/East Furne	108 C	852	7.0	5.964	400	16.5	6.595		14.5	20,390	143		3,497	36,446
Russian Fed	8.813		6.5	S4	1,322	16.0	21.151		13.5	95,067	441	24.0	10,576	126,848
Northern Furone	4 094	2.325	15.0	34.878	:	16.5	ла Мар Мар	1,369	14.5	19,851	•.		3,675	62,529
	3 696			23.947		16.5	77		14.5	25,375			3,920	56,377
Southern Furone	1 677		- •			16.5	· · ·		14.5	7,772	•		1,698	25,629
Western Europe	2315				170	16.5	2,805		14.5	10,730			1,715	35,280
France	2.646					16.5	- 1.		16.5	10,280			1,666	46,957
Germany	4,679					16.5			14.0	26,432	-	•	¢.125	00,840
Switzerland	1.593		15.0	14.611	85	16.5			14.5	6,786			1770'1	774.47
East/Med Europe	362	129	15.5	1,995		17.0			15.5	2,523	61	25.0	463	108.4
Middle East	69				10	17.0	169	1£	15.5	484	4	25.0	68	
South Asia	554			3.057		17.0	-	64	15.5	3,867	28	25.0	6	222'2
Africa	68					17.0			15.5	621	S	25.0	114	7447
	107,178	35,158		408,080	5,049		80,300	64,007		391,934	2,964		68,728	949,042
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Source: JICA Study Team

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Country/Region	Propertion of	Propertion of	Propertion of Propertion of Propertion of AAG of Total	AAG of Total	minuter/Peorien Proportion of Proportion of AAG of Total AAG of AAG of	AAG of
	Total	Leisure	Business	(1997-2000)	Leisure (1997-2000)	Business (1997-2000)
م سمسری د	1.0%	1.2%	0.6%	14.0%	12.7%	18.9%
USA	7.1%	12.2%		21.0%	32.0%	18.3%
Lort Acia/Dacific	1 5%	1.8%	1.4%	0.2%	~1.1%	1.0%
לוווש עשומר וכניור זמסמ	16.4%	4		16.6%	16.3%	6
Korea ren	3.2%			1.4%		
China	38.2%		9	8.0%	-2.0%	
Australia	1.4%			13.8%	24.6%	71.1%
Cen/East Europe	2.6%	2.4%	2.2%	3.3%	-3.2%	
Russian Fed	8.2%		11.0%	0.4%	-1.6%	0.4%
Northern Europe	3.8%	6.6%	2.1%	13.6%		
	3.4%					
Southern Europe	1.6%			13.7%		
Western Europe	2.2%		1.2%			
France	2.5%					
Germany	4.4%	6.2%	2.9%	11.9%		
Switzerland	1.5%	2.8%	0.7%	13.6%	17.6%	
East/Med Europe	0.3%	0.4%	0.3%			
Middle East	0.1%	0.1%	0.0%			
South Asia	0.5%	0.6%	0.4%	-		
Africa	0.1%	0.1%	0.1%	3.2%	1.8%	
	100 0%	100 0%	100.0%	%8 %	15.6%	8.4%

Source: JICA Study Team

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Table A12.1.4 Projection of Tourist-Nights to 2015	1 Projectio	n of Touri	st-Nights	\sim	'Without	project/p	rogram"	"Without project/program" case) (7/23)	(
Country/Region	2001	Leisure	ALS	Tourist-	VFR	ALS	Tourist-	Business	STV	Tourist-	Other	ALS	Tourist-	Total
1				Nights			Nights			Nights			Nights	Fourist- Nights
Americas	1,155	553	17.0	9,406	101	16.5	1,667	420	15.5	6,515	80	24.5	1,960	11,808
USA	8,176	4,362	17.0	74,159	510	16.5	8,418	2.889	15.5	44.780	415	24.5	10,168	71,784
East Asia/Pacific	1,794	604	6.5	4,606	130	14.5	1,881	006	10.5	9,450	56	20.5	0+1,140	14,352
Japan	20,170	17,723	7.5	132,921	165	14.5	2,393	2,171	10.5	22,793	111	20.5	2,276	29,854
Korca rep	3,716	1,379	6.5	8,964	268	14.5	3.888	1,954	10.5	20,515	115	20.5	2,356	30,648
China	44,255	62	6.5	402	385	14.5	12,835	42,423	1.5	63,635	885	20.5	18,147	107,452
Australia	1.677	722	15.0	10,836	103	16.5	1.702	764	14.5	11,082	87	24.5	2,128	16,615
Cen/East Europe	2,915	1,034	7.0	7,239	420	16.5	6,932	1,320	14.5	19,146	140	24.5	3,430	36,441
Russian Fed	9,253	6	6.5	56	1.388	16.0	22,210	7.394	13.5	99,813	463	24.0	11,105	155.337
Northern Europe	4,608	2,696	15.0	40,443	383	16.5	6,320	1,398	14.5	20,274	131	24.5	3,210	36,123
Ä	4,190	1,761	15.0	26,414	207		3,417	2,062	14.5	29.897	3	24.5	3,925	40,656
Southern Europe	1,897	1,154	15.0	17,308	120		1,980	568	14.5	8,234	55	24.5	1,348	13,541
Western Europe	2,632	1,546	15.0	23,184	170		2,805	806	14.5	11,686	110	24.5	2,706	20,001
France	2,999	2,120	18.0	38,166	135		2,228	649	16.5	10,704	3	24.5	2,334	17,493
Germany	5225	2,744	13.0	35,670	400		6,600	1,800	14.0	25,197	282	24.5	6,904	45,301
Switzerland	1,797	1,117	15.0	16,759	89		1,469	536	14.5	7,771	55	24.5	1.348	12,055
East/Med Europe	373	131	15.5	2,033	S 4	17.0	914	169	15.5	2,619	19	25.0	480	4,927
Middle East	9	25	15.5	392	10	17.0	176	33	15.5	505	4	25.0	93	676
South Asia	S73	201	15.5	3,123	83	17.0	1,404	260	15.5	4,024	8	25.0	738	7,570
Africa	- 93	33	15.5	508	13	17.0	228	42	15.5	655	5	25.0	120	1.232
	117,571	40,082		452,588	5,635		89,466	68,557		419,295	3.297		75,912	674,139
Source: JICA Study Team	Team													

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Table A12.1.4 Projection of Tourist-Nights to 2015 (Projectio	n of Tour	ist-Nights	to 2015 ('	"Without	project/p	rogram"	'Without project/program" case) (8/23)	(
Country/Region	2002	Leisure	ALS	Tourist-	VFR	ALS	Tourist-	Business	ALS	Tourist-	Other	ALS	Tourist- Nichts	Total Tourist-
				Nights			Sugar			3				Nights
		210	140	10 500	100	165	1.650	476	15.5	7.378	100	24.5	2,450	21,998
Americas	042-9	410		76,503	805	16.5	9.862	3,225	15.5	49,981	418	24.5	10.241	146.587
Too Asia Marifia	04/10			10290		14.5	2.050		10.5	10,817	61		1.242	18,744
Fast Asia Facilic	73 167	20	25	151.615	170	145	2,465	2,667	10.5	28,002	2112 	20.5	2,358	184,440
K Ores ren	4.019		Ū	9.775		14.5			10.5	22.362			2,460	38,440
China	47.783		6.5	382		14.5			1.5	68,939			18,143	100,225
Australia	1,893	~		12.356	110	16.5	2		14.5	12.626				10,02
Cen/Eact Furnhe	3 040	1_062	7.0	7.436	<u>1</u> 41	16.5			14.5	20,103	150		3,675	38,494
Duccian Fed	9.716			57		16.0	23,318		13.5	104,805				
Northand Curves	5 187	1050 5		45.746		16.5			14.5	23,304	130	24.5	3,185	78,835
	044		•	26 592					14.5	36,650				
UN Constrant Europe) v f								14.5	10,298			1	
Numeran Europe	2003		15.0		170	1999 - 1999 - 299 - 299	2,805		14.5	14,272				45,703
France	3,369	-							16.5	13,115				
Germany	5,870		-						14.0	28,524			9,435	84.048
Switzerland	2,042	1.108		16,614			'n		14.5	9,700				107.10
East/Med Europe	386	134	15.5	2,076					15.5	2,728	2	25.0		6.256
Middle East	74				11	17.0	183	34	15.5	525	4	25.0	8 8	507°1
South Asia	591			3,182			-		15.5	4,181	5	25.0		100.5
Africa	96		15.5	519	14	17.0			15.5	289				1.0
	129.134	44,056		492,928	6,124		97,492	75,361		468,992	3,592		83.071	1,142,482
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Table A12.1.4 Projection of Tourist-Nights to 2015	l Projectio	n of Touri	st-Nights	\sim	"Without	project/p	rogram"	"Without project/program" case) (9/23)				•	•	-
Country/Region	2003	Leisure	ALS	Tourist- Nights	YFR	VIS	Tourist- Nights	Business	ALS	Tourist- Nights	Other	ALS	Iourist- Nights	Iotal Tourist- Nights
Americas	1,463	705	17.0	11,991	105	16.5	1,733	543	15.5	8,409	110	24.5	2,695	24,827
USA	9.348	4.846	17.0	82,386	600	16.5	006.6	3,481	15.5	53,962	420	24.5		156,539
East Asia/Pacific	2,108	764	6.5	4,968	154	14.5	2,235	1,123	10.5	11,792	8	20.5	1,354	20,349
Japan	26.671	23.241	7.5	174,309	180	14.5	2,610		10.5	32,596	145	20.5		212,497
Korea rep	4337	1,617	6.5	10,512	270	14.5	3,915		10.5	24,290	136	20.5		41,506
China	51.614	58	6.5	376	890	14.5	12,905	4	1.5	74,664	890	20.5		106,190
Australia	2,140	944	15.0	14.161	115	16.5	1.898	993	14.5	14,393	88			32,607
Cen/East Eurone	3.173	1.089	7.0	7.625	463	16.5	7.641	1,456	14.5				4,052	40,424
Russian Fed	10,201		6.5	59	1.500		24,000	8.206	15.5		486	24.0		146,498
Northern Europe	6.268	3.722	15.0	55,835	410			c I	14.5	28,792			3,675	95,067
UK	5,402		15.0	31,988	210				14.5	40,450				82,518
Southern Europe	2,451		15.0	22,197	150	16.5	2,475	767	14.5	11,115				37,134
Western Europe	3,400	2,033	15.0	30,499	170		5		14.5	15,691				51,813
France	3,784	2,636	18.0	47,451	170				16.5	14,094				67,371
Germany	6,574	3,367	13.0	43,776	580				14.0	30,894	420			94,530
Switzerland	2,310		15.0	18,767	220	11 14 14			14.5	11,080				35,314
East/Med Europe	399	137	15.5	2,123	*********** 58	17.0			15.5	2,837	21	25.0		6,471
Middle East	1		15.5	408	11	17.0		35	15.5	546		25.0	8	1,244
South Asia	612	<u>ы</u>	15.5	3,256	89	17.0	-4		15.5	4,351	32	25.0		9,924
Africa	101		15.5		15	1 17.0	<u>.</u>		15.5	716	5	25.0		1.633
	142,432	505,02		563,224	6,361		101,300	81,989	-	512,553	3.777		87,380	87,380 1,264,457
				Í										

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	ALS Tourist- Other ALS Tourist- Total a		15 5 9 646 120 24.5 2.940 28,168 3	10.535	1 CCC.01 10.4% 10C4 10C4 10CCC	12,852 72 20.5 1,476	150 20.5 3,075 2	27,486	20.5 18,389 1	.24.5	22,506	24.0	31,464 3 170 24.5 34.165	45.027 250 24.5 6,125	12,886	17,438	16,970	430 24.5 10,535 1	12,653	22 25.0	566 555 4 555 0 55 0 5 5 0 5 5 5 0 5 5 5 0 5	4,522	25.0	550 500 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
n" case) (10/2	t- Business	 	15 622	(18 3.611					80 1.133		00 8,714						735 2,462	3.795 873	161 160'1			264 49	202 80 777
Without project/program" case) (10/23)	ALS Tourist- Nights	1 0	14 5 1 2 15	•	16.5 9.818	14.5 2,436	14.5 2.6	14.5 3.915		16.5 1.980	16.5 7.755							16.5 9.7						
	VFR				7 595	2				120		-						590			7 12		7	оl <u>кил</u>
ts to 2015	Tourist-				0 90.877	5 5,324	5 200.702	~		16			57.8				0 52.550			5 2,173		5 3,327		222 750
rrist-Nigh	ALS				5 17.0	0	0 7.5			15.0							- •	0 13.0		0 15.5				
on of Tou	Leisure				5,346	819	26.760						2 250			7756		3 879		3 140	9 27	215		
4 Projectic	2004			700	9,981	2.283	30,692	4 779	CF7 22	7.421	2 212	10711		0.010 A 1.10	0110 240C	2.054	1950	OVE C	2.611	413	54	632	106	
Table A12.1.4 Projection of Tourist-Nights to 2015 (Country/Region			Americas	USA	Fast Asia/Pacific	lanan	Wares ren	China ter	Auctralia	Configuration	Concast curupe Russian Fed	Marken Fusies			Sourcen Europe	Mesterii Europe	Carmany	Switzerland	East/Med Europe	Middle East	South Asia	Africa	

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Country/Region 2005 Leisure ALS Tourist- Nights VFR ALS Tourist- Nights Business Americas 1,901 942 17.0 16,012 115 16.5 1.898 719 USA 10.563 5,564 17.0 94.587 650 16.5 10.725 3.914 USA 5,117 1,923 6.5 5,701 166 1.334 2.743 1.334 Japan 5,5,317 30,755 7.5 230,659 180 14.5 2.610 4.227 Japan 5,317 1,923 6.5 13,493 1259 1.394 2.743 1.324 Japan 2,7441 1,213 15.0 8.126 4.70 16.5 2.434 1.073 China 2,7441 1,213 15.0 8.126 4.70 16.5 2.433 1.073 China 2,7441 1,213 15.0 8.126 4.70 16.5 2.434 1.073	Table A12.1.4 P	Projectio	rojection of Tourist-Nights to 2015 ("Without project/program" case) (11/23)	ist-Nights	to 2015 ("Withou	t project/p	rogram"	case) (11/.	23)	
1,901 942 17.0 16,012 115 16.5 1.898 10.563 5,564 17.0 94.587 650 16.5 10.725 10.563 5,564 17.0 94.587 650 16.5 10.725 5,117 1,923 6.5 5,701 168 14.5 2,610 5,117 1,923 6.5 12,498 270 14.5 2,610 5,117 1,923 6.5 12,498 270 14.5 2,610 5,117 1,923 6.5 12,498 270 14.5 2,610 5,117 1,923 6.5 15.0 13.0 57 3,915 6,0201 56 6.5 6.360 470 16.5 2,063 11,259 1,161 7.0 8,126 470 16.5 2,475 0pc 3,473 1250 15.0 53,363 2,475 2,475 0pc 4,411 2,607 15.0 <td< th=""><th>Country/Region</th><th>2005</th><th>Leisure</th><th>ALS</th><th>Tourist- Nights</th><th>VFR</th><th>ALS</th><th>Tourist- Nights</th><th>Business</th><th>ALS</th><th>Tourist- Nights</th></td<>	Country/Region	2005	Leisure	ALS	Tourist- Nights	VFR	ALS	Tourist- Nights	Business	ALS	Tourist- Nights
10.563 5.564 17.0 94.587 650 16.5 10.725 iffic 2,472 877 6.5 5,701 168 14.5 2,436 5,117 1,923 6.5 5,701 168 14.5 2,610 5,117 1,923 6.5 12,498 270 14.5 3,915 6,0201 56 6.5 12,498 270 14.5 3,915 6,0201 56 6.5 12,498 270 14.5 2,610 6,0201 56 6.5 15.0 180 16.5 2,610 2,744 1,213 15.0 8,191 1255 16.5 2,063 2,744 1,233 1,500 16.5 2,475 3,630 0pc 7,453 4,424 15.0 6,360 410 16.5 2,475 0pc 6,950 2,872 15.0 13.063 3,630 9,719 0pc 6,950 2,343 15	Americas	1061	942	17.0	16.012	115	16.5	1.898	719	15.5	11,143
ific 2,472 877 6.5 5,701 168 14.5 2,436 5,117 1,923 6.5 12,498 270 14.5 2,610 5,117 1,923 6.5 12,498 270 14.5 3,915 60,201 56 6.5 12,498 270 14.5 2,610 2,3459 1,161 7.0 8,126 470 16.5 7,755 0pc 3,459 1,161 7.0 8,126 470 16.5 7,755 0pc 3,459 1,161 7.0 8,126 470 16.5 2,475 0pc 3,459 1,161 7.0 8,126 470 16.5 2,475 0pc 3,459 11,255 4,424 15.0 66,360 16.5 2,475 0pc 3,174 1,890 15.0 66,360 520 16.5 2,475 0pc 4,411 2,607 15.0 53,343 150 16.5<	USA	10,563	5.564	17.0	94.587			10,725	3,914	15.5	60,669
35,317 30,755 7.5 230,659 180 14.5 2,610 5,117 1,923 6.5 12,498 270 14.5 3,915 60,201 56 6.5 12,498 270 14.5 3,915 2,744 1,213 15.0 18,191 1255 16.5 3,915 0pc 3,459 1,161 7.0 8,126 470 16.5 2,063 0pc 3,453 1,161 7.0 8,126 470 16.5 2,063 0pc 7,453 4,424 15.0 66,360 410 16.5 6,765 0pc 3,174 1,890 15.0 53,345 150 16.5 2,475 0pc 3,174 1,890 15.0 28,345 180 16.5 2,475 0pc 3,174 1,890 15.0 28,345 180 16.5 2,475 0pc 4,411 2,607 15.0 28,345 180 16.5 2,475 0pc 4,411 2,607 15.0 250	East Asia/Pacific	2.472		6.5	5.701			2,436	1,334	10.5	14,003
5,117 1,923 6.5 12,498 270 14.5 3,915 60,201 56 6.5 363 885 14.5 12,833 5 2,744 1,213 15.0 18,191 125 16.5 2,063 5 0pe 3,459 1,161 7.0 8,126 470 16.5 2,063 0pe 3,474 1,213 15.0 8,126 470 16.5 2,000 0pe 3,174 1,890 15.0 66,360 410 16.5 6,765 0pe 3,174 1,890 15.0 28,345 150 16.5 2,475 0pe 3,174 1,890 15.0 28,345 150 16.5 2,475 0pe 4,411 2,607	Japan	35,317		7.5	230,659			2,610		10.5	44,388
60,201 56 6.5 363 885 14.5 12,833 5 ope 3,459 1,161 7.0 8,126 470 16.5 2,063 5 7,755 7,775 7,775 7,775 7,7	Korea rep	5.117		6.5	12,498			3.915	2,769	10.5	29,078
ope 3,459 1,161 7.0 8,126 470 16.5 2,063 ope 3,459 1,161 7.0 8,126 470 16.5 7,755 ope 3,459 1,161 7.0 8,126 470 16.5 7,755 ope 3,174 1,890 15.0 6,360 410 16.5 6,765 ope 3,174 1,890 15.0 53,453 150 16.6 24,000 ope 4,411 2,607 15.0 8,343 150 16.5 3,630 ope 4,411 2,607 15.0 28,343 150 16.5 3,630 ope 4,411 2,607 15.0 28,343 150 16.5 3,630 ope 4,411 2,607 18.0 60,954 182 16.5 3,053 ope 4,766 18.0 60,954 182 16.5 2,475 ope 4,766 15.0 24,893 250 16.5 4,125 200 82.37 143 15.5 2.219 63 17.0 1,071 rope 82 270 15.5 3,403 97 17.0 1,071	China	60.201		6.5	363		1	12,833	58,280	1.5	87,420
Ope 3,459 1,161 7.0 8,126 470 16.5 7,755 0pe 7,453 4,424 15.0 66,360 410 16.5 6,765 0pe 7,453 4,424 15.0 66,360 410 16.5 6,765 0pe 3,174 1,890 15.0 43,083 220 16.5 3,630 0pe 3,174 1,890 15.0 28,345 150 16.5 3,630 0pe 3,174 1,890 15.0 28,345 150 16.5 3,630 0pe 3,174 1,890 15.0 28,345 180 16.5 2,475 0pe 4,411 2,607 15.0 28,345 180 16.5 2,475 0pe 4,766 3,386 18.0 60,954 185 16.5 2,475 0pe 4,766 15.0 28,345 180 16.5 2,475 200 20 18.0 56.5<	Australia	2.744		15.0	18.191	74 74		2,063		14.5	18,764
11.259 10 6.5 6.3 1.500 16.0 24,000 opc 7,453 4,424 15.0 66,360 410 16.5 6,765 opc 3,174 1,890 15.0 63,360 410 16.5 6,765 opc 3,174 1,890 15.0 23,083 15.0 16.5 3,630 opc 3,174 1,890 15.0 28,343 150 16.5 3,630 opc 4,766 3,386 18.0 60,954 188 16.5 2,475 opc 4,766 3,386 18.0 60,954 188 16.5 2,9719 s237 4,451 13.0 57,860 589 16.5 4,125 cope 8237 4,451 13.0 24,893 250 16.5 4,125 cope 8237 4,451 15.0 24,893 250 16.5 4,125 cope 8237 15.5 2,219 <t< td=""><td>Cen/East Europe</td><td>3.459</td><td></td><td>7.0</td><td>8,126</td><td></td><td>-</td><td></td><td></td><td>14.5</td><td>23,970</td></t<>	Cen/East Europe	3.459		7.0	8,126		-			14.5	23,970
Ope 7,453 4,424 15.0 66,360 410 16.5 6,765 ope 3,174 1,890 15.0 43,083 2220 16.5 3,630 ope 3,174 1,890 15.0 43,083 2220 16.5 3,630 ope 3,174 1,890 15.0 28,343 150 16.5 3,630 ope 4,766 3,386 18.0 60,954 1880 16.5 2,970 8,237 4,451 13.0 57,860 589 16.5 3,053 2,944 1.660 15.0 24,893 250 16.5 4,125 2,944 1.660 15.0 24,893 250 16.5 4,125 209 25 24,893 250 16.5 4,125 4,125 209 66,4 270 15.5 3,403 97 17.0 1,071 100 37 15.5 3,403 97 17.0 1,071	Russian Fed	11,259		6.5	63					13.5	124,932
ope 5,950 2,872 15.0 43,083 2220 16.5 3,630 ope 3,174 1,890 15.0 23,345 150 16.5 3,630 ope 3,174 1,890 15.0 28,345 150 16.5 2,475 ope 4,411 2,607 15.0 28,345 180 16.5 2,970 a,766 3,386 18.0 60,954 185 16.5 2,970 s,2970 53,386 18.0 60,954 185 16.5 3,053 s,2970 53,386 18.0 60,954 185 16.5 3,053 s,2970 57,360 589 16.5 4,125 3,053 rope 427 13.0 57,860 589 16.5 4,125 rope 82 270 15.5 2,219 63 17.0 1,071 10 37 15.5 3,403 97 17.0 1,071 110<	Northern Europe	7.453			66.360					14.5	35,288
opc 3,174 1,890 15.0 28,345 150 16.5 2,475 opc 4,411 2,607 15.0 39,105 180 16.5 2,970 opc 4,766 3,386 18.0 60,954 185 16.5 2,970 8,237 4,451 13.0 57,860 589 16.5 9,719 2,944 1.660 15.0 24,893 2590 16.5 4,125 2,944 1.660 15.0 24,893 2590 16.5 4,125 rope 427 143 15.5 2,219 63 17.0 1,071 82 270 15.5 3,403 97 17.0 1,071 110 37 15.5 3,403 97 17.0 1,642 110 37 15.5 3,403 97 17.0 1,642	'n	6.950			43,083					14.5	
pc 4,411 2,607 15.0 39,103 180 16.5 2,970 4,766 3.386 18.0 60,954 185 16.5 3,053 8,237 4,451 13.0 57,860 589 16.5 9,719 2,944 1.660 15.0 24,893 250 16.5 4,125 2,944 1.660 15.0 24,893 250 16.5 4,125 2,944 1.660 15.0 24,893 250 16.5 4,125 2,944 1.660 15.0 24,893 250 16.5 4,125 100e 82 271 15.5 2.219 63 17.0 1,071 654 220 15.5 3,403 97 17.0 1,642 110 37 15.5 572 16 17.0 1,642 110 377 572 16 17.0 276 10.4.62	Southern Europe	3.174		-	28,343					14.5	15,652
4,766 3.386 18.0 60.954 185 16.5 3.053 8,237 4,451 13.0 57,860 589 16.5 9,719 2,944 1.660 15.0 24,893 250 16.5 4,125 2,944 1.660 15.0 24,893 250 16.5 4,125 rope 427 143 15.5 2.219 63 17.0 1,071 82 27 15.5 3,403 97 17.0 1,071 654 220 15.5 3,403 97 17.0 1,642 110 37 15.5 572 16 17.0 1,642	Western Europe	4.411			39,103					14.5	21,733
8.237 4.451 13.0 57,860 589 16.5 9,719 2.944 1.660 15.0 24,893 250 16.5 4,125 rope 427 143 15.5 2,219 63 17.0 1,071 rope 82 27 15.5 2,219 63 17.0 1,071 654 220 15.5 3,403 97 17.0 1,071 110 37 15.5 3,403 97 17.0 1,642	France	4,766			60,954						17,654
2.944 1.660 15.0 24.893 250 16.5 4,125 rope 427 143 15.5 2.219 63 17.0 1.071 82 27 15.5 2.219 63 17.0 1.071 654 220 15.5 3.403 97 17.0 1.642 110 37 15.5 572 16 17.0 276	Germany	8,237	_	~	57,860						
rope 427 143 15.5 2.219 63 17.0 1,071 82 27 15.5 424 12 1,071 205 82 27 15.5 424 12 17.0 1,642 654 220 15.5 3,403 97 17.0 1,642 110 37 15.5 572 16 17.0 276	Switzerland	2,944			24,893					14.5	13,722
East 82 27 15.5 424 12 17.0 205 Asia 654 220 15.5 3,403 97 17.0 1,642 Asia 110 37 15.5 572 16 17.0 276	East/Med Europe	427		15.5	2,219				198		
Asia 554 220 15.5 3,403 97 17.0 1,642 110 37 15.5 572 16 17.0 276	Middle East	8		15.5	424					15.5	587
272 572 110 37 15.5 572 76 15.6 276 276 276	South Asia	654		15.5	3,403	<u> </u>	17.0	1	304		
	Africa	110		15.5	572	16	17.0			15.5	164
C17.40 C17.40 C14.51/ C17.40		172,240	64,215		713,413	6,535		104,163	97,404		618,128

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Country/Beaton	Other	VLS	Tourist-	Total	AAG of Total	AAG of	AAG of
יישאיני לי איניפאיני	;		Nichts	Tourist-	(2001 - 2005)	Leisure	Business
				Nights		(2001-2005)	(2001-2005)
A	174	245	3 063	32,115	2475.8%	14.2%	2060.0%
Americas	SEA.	24.5	Γ	•••	2379.0%	6.3%	3767.0%
	0	2.00			2214.8%	5.5%	6176.0%
East Asia/Facilic				280.834	1705.0%	14.8%	5425.8%
Japan				•	2028.1%	8.7%	6051.9%
Norea rep			ેં		-	-2.5%	8892.0%
	202					13.8%	2817.3%
Austana C/East Eurone	175				2676.0%	2.9%	3411.9%
Contrast curopo Dussian Ped	202		-	-		3.2%	14018.3%
Nother Endan	185			[2578.5%	13.2%	3458.3%
	266					13.0%	3861.8%
CN Control Europe		24.5				13.1%	2670.3%
Soundin Europe			1063			14.0%	3002.5%
western curope	771					12.4%	3002.4%
rance Company			1	-		12.9%	3373.1%
Cermany	1			•		10.4%	2844.0%
SWILLIAMS) C				2777.8%	2.2%	2102.7%
Eastime East		0 Y C	108			2.0%	1161.2%
WILLING COST	, v ,			-		2.2%	2437.5%
South Asia Africa	9	25.0				3.0%	1306.1%
	A 086			94.348 1.530,053	1760.5%	12.5%	12628.5%

: JICA Study Team	
Source: JI	

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Table A12.1.4 Projection of Tourist-Nights to 2015	l Projectio	n of Touri	ist-Nights	\sim	'Without	"Without project/program"	rogram"	case) (13/23)	(3)					
Country/Region	2006	Leisure	ALS	Tourist- Nights	VFR	VIS	Tourist- Nights	Business	ALS	Tourist- Nights	Other	ALS	Tourist- Nights	Total Tourist- Nights
													570 0	22 010
Americas	2 007	826	17.0	16,624	116	. 16.5	1.914	788	15.51	17.21	3	1	200,0	010,00
I ISA	11 239	9	17.0	104.659	610	16.5	10.065	4,022	15.5	62,346	450	24.5	11,025	188,095
Eact Acia/Davifie	212 6		59	5 824	166	14.5	2.407	1,491	10.5	15,653	56	1.5 T.W.	1,948	25,831
Last Asia Fault	36.806	5	2.5	238 613	185		2 683	4,646	10.5	48,783	160		3,280	293,358
Vores Ter	5000		6.5	11.493	250		3.625		10.5	31,890	170		3,485	50,493
China tep	60 EY		6.5	338	885		12,833	61,872	1.5	92,808	1,000	20.5	20,500	126,479
Anstralia	2.913	1.3	15.0	20,085	130	16.5	2,145		14.5	19,272	115		2.818	44,320
Can/East Eurone	195 5	1 138	0.5	7.969	470	16.5	7.755	1,760	14.5	25,523	192	24.5	4,711	45,959
Russian Fed	11 483		6.5	60	1.500	16.0		9,439	13.5	128,104	485			163,804
Northern Eurone	A75'8	5 237	15.0	78.549	400				14.5	37,009		24.5	4,582	126,740
	7.601		15.0	51.129	200		e S		14.5	55,200				116,367
Southern Furne	3.716			35.543	155	16.5		1,136	14.5	16,469	56		5	55,942
Western Furne	\$ 003	3,148		47.226	185				14.5	22,401				75,742
France	5 446				188				16.5	18,929				96,836
Germany	8,969		13.0		590				14.0	42,855				126,892
Switzerland	3.369				265		4,373		14.5	14,509	87	24.5		CCZ.1C
Fast/Med Eurone	442		15.5	2,188	67	17.0		210	15.5	3,253	24	25.0	596	7,173
Middle Fast	28		15.5		13	17.0			15.5	621	S	25.0		1,308
South Acia	677	~	15.5	, cu	, 102				15.5	4,985	37	25.0		10,993
Africa	500 II4		15.5		$\mathbf{L} \in \mathbb{R}^{2}$				15.5	S 39	9	25.0		1.850
	183.577	69.604		789.874	6,494		103,530	103,310		653,668	4,169		96,244	1,643,315

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Source: JICA Study Team

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Table A12.1.4 Projection of Tourist-Nights to 2015	Projectic	nof Tour	ist-Nights	_ U	"Without	"Without project/program"		case) (14/23)	(3)					
Country/Region	2007	Leisure	ALS	Tourist- Nights	VFR	ALS	Tourist- Nights	Business	VTS	Tourist- Nights	Other	ALS	Tourist- Nights	Totai Tourist- Nights
								740	12 21	12 577	301-2	245	3 063	46.473
Americae	759	1.643	17.0	27.925	116	0.01	1, V 14	0/0	1.1	4/2.01	3			001 001
TIS A	102 11	-	17.0	110.207	009	16.5	006'6	4,258	15.5	65.997	450	24.5	11.025	197.129
10.4	220 0			K 537	3YI		2 393	1.593	10.5	16.724	92	20.5	1,886	27,539
East Asia/Pacific	CC2'7		01		100		702 6	4 968	10.5	52.167	150	20.5	3,075	320,902
Japan	40,364	6 19	Ú,	202,934					5 01	2777 15	170	20.5	3.485	51.378
Korea rep	5,405	1,989	0.5	12,920					1.4		200	Y UC	20 308	131 686
China	67.636	55	6.5	359			12,325	Ð	0.1	1400.04				000 101
Australia	3219	1.400	15.0	20,994	125				I4.5	22.911	1.14			201.01
	2 720	1 1 85	0.2	8.297	470		7.755		14.5	27,393	195	24.5	4,778	48,225
Convexus curves	A17 11		5.5	60	. •••	16.0	્રાપ	9.663	13.5	130,452	487			167,080
VUSSIAII FGU			212	1010					14.5	39.014			4,533	132,267
Northern Europe	8, /49		0.01				1		14 5	50 184			6.762	123,271
<u>NK</u>	8,158									16.220			1 348	57.566
Southern Europe	3,825			57,415						20101			2000	70 012
Western Europe	5,220	3,381	15.0	50,717						22,100		•		270101
France	5.688		18.0	76,674		16.5			16.5	18,421				
Germany	9.579		13.0	68,503	600				14.0	45,772			10, 20	202,401
Switzerland	3.538			33,411	267	16.5		958	14.5	13,895			X	25.174
East/Mad Distance	yyv		5 51	2.288	ΓL	17.0	1 2007 - 20	222	15.5	3,444	25	25.0	625	7,559
Eastivica Europe	3		15.5	430					15.5	662	5			1,453
Middle East	2 0) 4) 4) 4						15.5	5.286	39			11,610
South Asia	Ϋ́	•	0.01	110.0	2				5 Y L	803	L			1.962
Africa	121	38	C.CI	574			245		2				L	270 272 1
	195,630	75,954		859,608	6,518		104,031	109,013		684,502	4,140		77/06	c00,C+1,1

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Table A12.1.4 Projection of Tourist-Nights to 2015	I Projectio	n of Louri	ist-Nights	\sim	'Without	project/p	rogram"	"Without project/program" case) (15/23)	(3)		:			
Country/Repion	2008	Leisure	ALS		VFR	ALS	Tourist-	Business	ALS	Tourist-	Other	ALS	Tourist-	Total
				Nights			Nights			Nights			Nights	Tourist- Nights
Americas	2.533	1.415	17.0	24,047	115	16.5	1,898	879	15.5	13,618		24.5	3,063	42,626
USA	12,320	6,730	17.0	114,418	610	16.5	10,065	4,560	15.5	70.672	420	24.5		205,446
East Asia/Pacific	3.072	1,080	6.5	7,022	165	14.5		1,731	10.5	18,180		20.5	1,948	29,542
Japan	43,855	(7)	7.5	283,542	185	14.5		5,665	10.5	59,480		20.5		349,805
Korea rep	5,628		6.5	13,260	220	14.5		3,181	10.5	33,399		20.5		53,685
China .	71,694		6.5	325	850	14.5	1	69,844	1.5	104,766		20.5	. к	136,891
Australia	3,524	1,506	15.0	22.585	150	16.5	2.475	1,749	14.5	25,354		24.5	1	53.354
Cen/East Europe	3.912	1,218	7.0	8.528	450	16.5	7,425	2,048	14.5	29,702	-	24.5	4,778	50,433
Russian Fed	11.951		6.5	60	1.500	16.0	24,000	9.957	13.5	134,414	485	24.0		170.114
Northern Europe	9.658	6,047	15.0	90,704	420	16.5	6,930	3,006	14.5	43,585				
nk N	8,847		15.0	57,416	215	16.5	3,548	4,529	14.5	65,676	275	-	6,738	133,378
Southern Europe	4,145		15.0	41,278	160	16.5	2,640	1,168	14.5	16,933				
Western Europe	5,686		15.0	54,441	200	16.5	3,300	1,727	14.5	25,037				
France	6.214		18.0	82,990	187	16.5	3,086	1,286	16.5	21,219	- - - -			
Germany	10,331	5,758	13.0	74,859	600	16.5	006.6	3,523	14.0	49,320				
Switzerland	3.837	2.390	15.0	35.852	270	16.5	4,455	1.089	14.5	15,788	88			
East/Med Europe	490	153	15.5	2,367	75	17.0	1,276	236	15.5	3,656	27	25.0	670	7,968
Middle East	<u> 3</u> 3		15.5	450	14	17.0	243	45	15.5	696	Ŷ	25.0		
South Asia	752	234	15.5	3,630	115	17.0	1.956	362	15.5	5,606	4	25.0	1	
Africa	127	40	15.5	614	19	17.0	331	61	15.5	948		25.0		
	208,669	81,325		918,390	6,521		104,116	116,644		738,049	4,180		96,481	96,481 1.857.036

Source: JICA Study Team

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Table A12.1.4 Projection of Tourist-Nights to 2015	l Projectio	n of Touri	ist-Niehts	to 2015 ('	"Without	project/p	rogram"	'Without project/program" case) (16/23)	(3)					
Constru/Begion	2000	Leisure	ALS	Tourist-	VFR	ALS	Tourist-	Business	ALS	Tourist-	Other	ALS	Tourist-	Total
				Nights			Nights			Nights			Nights	Nights
	C t	1 002	17.0	377 65		16.5	1 898	945	15.5	14,653	125	S. 42.5	3,063	52,378
Americas	211.5	-	12.0	130.589	612	16.5	10,098	5,798	15.5	89,870	425	24.5		240,969
Con Eact Acia/Davifie	736 6	1 007	6.5	7.130		14.5	2,407		10.5	20,921	66	20.5		32,488
Tanan	48.121	4	7.5	310,965	188	14.5	2,726	6,262	10.5	65,746	210	20.5	4.305	383,741
Kores ren	5.968		6.5	12,687		14.5	2,900		10.5	38,098	188			200010
China	75,994		6.5	346		14.5			1.5	111,209	957			[42,420]
Australia	3.876	1.6	15.0	24,963	150	16.5			14.5	28,085	125			00.00
Cen/Eact Furnine	4 109	1.268	7.0	8.876	455		7,508	2,188	14.5	31,725]			4,851	92,929
Russian Fed	12,192		6.5	09		16.0	•••		13.5	136.973				170.5/1
Northern Furnne	11 707	7 542	15.0	113.127					14.5				4,533	
	10 723		15.0	71.241					14.5					161,185
Contrar Curone	10101			52.660					14.5					79.277
Sources Emore	120			68.579					14.5					108,025
France	7 856	5,880			188	16.5	3,102	1,653	16.5		135	24.5		139,525
Germany	12,641				610				14.0	64,533			11.197	176,336
Switzerland	4 845				280		4.620		14.5				Ń	73,218
East/Med Entone	12		15.5	2.476	80			250	15.5	3,874	28	25.0	210	8,411
Middle Fact	3				s.		-		15.5	743				1,614
South Acia	704	245		(1					15.5	5,940	1	25.0		12,898
Africa	135				21	17.0	352	65	15.5	1,009		25.0		2,192
	233.109	93.8		1,084,025	6,611		105,634	128,364		848,283	4,240		· 97,858	97,858 2,135,800
	and the second													

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	al ist-	51.661 237.946	34,604 394,791	59,567	64.041	55,481	176.834	74,906	159,464	3,465	106,175	5.948	73,721	12.214	8,853	1,691	3,573	2,309	3,610
	Total Tourist- Nights		6				-												2,15
	Tourist- Nights	3,063	2,050	3,834	3.063	4,851		4,582							753	₹	1,154	196	98,406 2,153,610
	ALS	24.5 24.5	20.5	20.5	24.5	24.5	24.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	25.0	25.0	25.0	25.0	
	Other	125 430	730 730	187	125	198	487	187	274	8	135	136	457		8			8	4,264
	Tourist- Nights	14,947 90,071	23,136 72,710	40,686	31,141	33,983	140.286	53,092	79,755	23,862	31,702	26,827	63,021	20.598	4,106	784	6,295	1.071	876,113
3)	ALS	15.5 15.5	10.5	10.5	14.5	14.5	13.5	14.5	14.5	14.5	14.5	16.5	14.0	14.5	15.5	15.5	15.5	15.5	
"Without project/program" case) (17/23)	Business	964 5.811	2,203 6 975	3,875	2,148	2,344	10,392	3,661	5,500	1,646	2,186	1.626	4,502	1.421	265	51	406	69	134,687
rogram" c	Tourist- Nights	1,914 9,983	2,393	2,915	2.492	7,508	24,800	026'9	3,465	2,871	3,465	3,119	10,065	4,620	1,433	274	2,197	374	105,952
project/pi	ALS	16.5 16.5	14.5	14.5	16.5	16.5	16.0	16.5	16.5	I6.5	16.5	16.5	16.5	16.5	17.0	17.0	17.0	17.0	
Without	VFR	116	165	201	•55 151	455	1.550	420	210	174	210	189	610	280	84	16	129	22	6,632
~~	· · · · · · · · · · · · · · · · · · ·	31,737	7,025	12,133	27.346	9,140	60	110,303	69,532	50,066	67,700	103,671	89,438	44.864	2,562	489	3,928	668	1,073,139
st-Nights	ALS	17.0	6.0	9 9 9	0.0	7.0	6.5	15.0	15.0	15.0	15.0	18.0	13.0	15.0	15.5	15.51	15.5	15.5	
1 of Touri	Leisure	1.867 7.492	171,1	2,022	48	1.306	6	7.354	4,635	3,338	4,513	5,759	6.880	2.991	165	32	253	43	96,677
Projection	2010	3,072	3,639	6,285	80,554	4.302	12,438	11.622	10,620	5.225	7,045	7,710	12,448	4,779	545	104	835	142	242,260
Table A12.1.4 Projection of Tourist-Nights to 2015	Country/Region	Americas USA	East Asia/Pacific	Japan Korea rep	China Australia	Cen/East Europe	Russian Fed	Northern Europe	NK	Southern Europe	Western Europe	France	Germany	Switzerland	East/Med Europe	Middle East	South Asia	Africa	

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Table A12.1.4 Projection of Tourist-Nights to 2015 ('	Projectio	n of Tour	ist-Nights	i to 2015 ('	-	project/p	rogram"	Without project/program" case) (18/23)	(<u>3</u>)					
Contraction of the sector	1100	Inieme	ALS	Tourist-		ALS	Tourist-	Business	ALS	Tourist-	Other	ALS	Tourist-	Total
Country Action		111017	2	Nights			Nights			Nights			Nights	Iourist-
				D						-		-		Sinnis
	100		0.41	24 863	001	16.5	1.980	1.020	15.5	15,814	125	24.5	3,063	55.719
Americas	010,0	100.2	0.71	-	009	16.5	006.6	6.271	15.5	97.205	400	24.5	9.800	249.031
NSA	C+0,C1		2.1				0100		305	35 498	125		2.563	37.893
East Asia/Pacific	3,972		6.0					041.4	201	105.07	No.	20.5	4 100	427,852
Japan	56,753	48,793	7.0	ų									703	63 174 5
Kores ren	6.674	2.124	6.0	12.743		- 			C.01	40, 04	، د برک			
	25 287	_					12,325		1.5	125,298	× .		400,41	
		C C	-	30	150	16.5	1	2.383	14.5	34,560	125		3,063	/0.301
Ausuralia	101								14.5	36.431	861	24.5	4,851	58,193
Cen/East Europe	4,510	50 <u>5</u> ,1			•		λ.	11201	2 2 1	123 551	488	24.0	11.712	180.224
Russian Fed	12,688	6	6.5	60	NCC.1	10.01			2				() ()	300 200
Mathen Europe	P02 C1	1 775	150	116.628	400	16.5			14.5	58,484			550.4	
Normen Europe									14.5	86,164			6,738	170,332
	700,11 1		• •						14.5	25.956			1,691	
Southern Europe	5 4 3		-				: :		X X I	2202			3.332	106661111
Western Europe	Sec 7,438	4,730				3			<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				2 200	
Еталсе	8.118			107,161					10.01	50,805	2			
Cermany	13,194	_				16.5	- -)	4,842	14.0	67,789	400		04111	
Switzerland	4.988				280	16.5	4,620		14.5	22,169				100.01
East/Mad Eurone	745		15.5	2.671		17.0				4,351	33	25.0	798	9,338
ALLEN Der									15.5	832				1,/80
MICOLC EAST		ı		V			1		-	6,670				14,315
South Asia	000				23		397	73		1.139	8	25.0		2,444
AIrrea		1 0.0 1		127	Y Y		2	143.742		940,452	4,241		97,842	2,281,034
	200,107	102,114	-	<u> </u>			22.2.2							

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Table A12.1.4 Projection of Tourist-Nights to 2015 (4 Projecti	ion of Tou	rist-Nigh	ts to 2015	E	it project/	program'	Without project/program" case) (19/23)	(23)					
Country/Region	2012	Leisure	ALS	Tourist-	VFR	ALS		Business	ALS	Tourist-	Other	ALS	Tourist-	Total-
• • • • •				Nights			Nights			Nights			Singer	Nights
A more than	TAA C	7 087	17.0	25 483	125	16.5	2.063	1.233	15.5	19,106	122	24.5	2,989	59,641
XIIICUCAD VISA	16.240		17.0	142,690	610	16.5	10,065	6.826	15.5	105,809	410	24.5	10,045	268.610
Eact Avia/Darific	095.5		609	8.247	156		2.262	2.704	10.5	28,397	125		2,563	41,468
Tanan	61 729	Ŷ,	2.0	371,069	185			8.284	10.5	86,986	250		5,125	465,862
Korea ren	7,139		6,0	13.504	201	14.5			10.5	47,246	188	20.5	3,854	67,518
China	90.506		6.0	346	851	-	਼ਿ	00	1.5	132,986	940		19,270	164,941
Australia	5,149	2,2		33,425	152		2.508		14.5	38,382	122		2,989	77.304
Cen/East Furne	4 746		7.0	9.872	451		7,442	2,685	14.5	38,938	661	2.4.5		61,127
Russian Fed	12.944			61	1,555		<u>с</u> і	_	13.5	146,893	499	24.0	11.976	183,810
Northern Furone	13 712	8 534		128.(6.765		14.5	66,404	188			205,788
	12 400						il d Se d			96,715	274	42 14 - A		185,727
Southern Furone	5.929				641	16.5	2,954	1,984		28,765	2	24.5	1,715	88,879
Western Furone	8 182			76,340				2,750	14.5	39,874				122,938
France	8 991						, in F	2,140	16.5	35,305			- 	159,196
Germany	14 373			1			10,230			71,341	457			199,375
Switzerland	5,333			48.350	280		4,620	1.742	14.5	25,259			۲ ۲	80.385
East/Med Europe	606	180	15.5	167.2	89	17.0		303	15.5	4,703	4 E	25.0	845	9,853
Middle Fact							306		15.5	880	9	. 25.0		1.880
South Acia	0/0	~		4					15.5	7,227	52	25.0	-	15,101
Africa	159				25		421		15.5	1,207	6	25.0		2,581
	277.120	111 921		1 234 764	6,625		105,879	154,283		1,022,423	4,291		98,917	98,917 2,461,982

Source: JICA Study Team

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Table A12.1.4 Projection of Tourist-Nights to 2015	4 Projecti	ion of Tou	rist-Night	s to 2015	("Withou	t project/	program"	"Without project/program" case) (20/23)	23)	1				
Country/Region	2013	Leisure	ALS	Tourist-	VFR	STR		Business	ALS	Tourist-	Other	ALS	Tourist- Nichte	Total- Tourist-
				Nights			Nignts			on But				Nights
	0000		0 5	CF0 02	172	16 5	030	1 438	15.51	22.296	125	24.5	3,063	66,430
Americas	584,5		0'/ T	24,044	143	2			2 2 1	110 802	400	245	9.800	286.619
USA	17,333	9,173	17.0	155,944	1000	10.01	252.4	1.134	0.01	1.0.021				
Fact Acia/Parific	4 792	1.481	6.0	8.888	158	14.5	2,291	3,027	10.5	31,786	125		2,563	45,528
לונושה ושוכה וכטול	005 22	v	0.7	397,362		14.5	2,726	9,111	10.5	95,663	255		5,228	500,979
Voras ten	059 C		6.0	14.208		14.5	2,900	4,904	10.5	51,489	187		3,834	72,431
Noice ich	05 024		6.0	357	852	14.5	12,354	94,086	1.5	141,129	936	20.5	19,188	173,028
Auctoria	5 646	10	15.0	36.437	152	16.5	2.508	2,942	14.5	42.663	123		4	84.622
	070 1		0 6	121 01	255	16.5	7.5081	2.866	14.5	41,553	200	24.5	- 	64,091
Centeast Europe	4,700	-	2.4	609	1.525	16.0	24,400	11.172	13.5	150.818	500	24.0	12,000	187,278
KUSSIAII FCU	007-64		0 2 1	128 048	UUT TUUT			5.196	14.5	75.345	189	24.5		225,543
Northern Europe				84 501	205) : 1 : 2 :	7,447	14.5	107.978	275	24.5	رت الا	202,598
UK L	15,000	0000 020 0	12.01	000 45				2.253	14.5	32,662	78	24.5		95,542
Southern Europe	11000 2000		0.51	82 991		165		3.127	14.5	45,344	135			135,141
Western Europe	0 264		18.0	128.356	156			2,442	16.5	40,300	135			174,537
Germany	15.650		13.0	115.082	623		-	5.717	14.0	80,031	458	24.5	11,221	216,614
Switzerland	5.825		15.0	52.305	281		4,637	1,969	14.5	28.549	88			8/.04/
East/Med Eurone	637	186	15.5	2,878	88	17.0		315	15.5	4,890	48	25.0	28	10,464
Middle East	122					17.0	323	60	15.5	934				1,979
South Asia	146	•••		ব	136		2,312	484	15.5	7,495	2			16,043
Africa	167					17.0	442	83	15.5	1.282	6			Z.714
	297,075	120,352		1,331,224	6,584		105,212	165,793		1,113,101	0 45, 4,346		100,289	100,289 2.649,826

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Table A12.1.4 Projection of Tourist-Nights to 2015	4 Projecti	ion of Tou	rist-Night	ts to 2015 (("Withou	"Without project/program"	program'	" case) (21/23)	(23)					ĺ
Country/Region	2014	Leisure	ALS	Tourist- Nights	VFR	ALS	Tourist- Nights	Business	ALS	Tourist- Nights	Other	ALS	Tourist- Nights	Total- Tourist- Nights
Americas	4.518	2.588	17.0	43,997	125	16.5	2,063	1,679	15.5	26,018	126	24.5	3,087	75,164
USA	18.923		-	166,335	600	16.5	9.900	8,129	15.5	125,999	410	24.5		312,279
East Asia/Pacific	5.334		6.0	9,847	160		2,320		10.5	35,774	126	20.5	2,583	50,524
Japan	72.548	<u>د</u>	7.0	434,557	187		2,712		10.5	105,327		20.5		547,720
Korea rep	8.337		6.0	15,390	205		2,973		10.5	56,481	188	20.5		78,697
China	101.679		6.0	367	855		12,398	-	1.5	149,744		20.5		181,655
Australia	6.252	2.702	15.0	40.523	153	16.5	2,525	3,273	14.5	47,454		24.5		93,564
Cen/East Europe	5.235		10.7	10.622	456		7,524		14.5	44,391	200	24.5	4,900	67,437
Russian Fed	13.473		6.5	61	1.526	16.0	24,416	11.436	13.5	154,387	502	24.0		190,912
Northern Europe	16.819	10,130	15.0	151,946	410			6,092	14.5	88,332		24.5	4,582	251,625
UK	14.965		15.0	92,650	200				14.5	120,564				
Southern Europe	7266		-	66,528	187	16.5			14.5	37,058	88			
Western Europe	10,090		15.0		22		2		14.5	52,993			1	
France	11,021		18.0	141,312	155				16.5	47,565				
Germany	17,357	9,564	13.0	124,328	625				14.0	93,979				
Switzerland	6,447	3,853	15.0	57,795	282			~	14.5	32,230				î
East/Med Europe	674	195	15.5	3,029	85		1,445	334	15.5	5,183	59	25.0	1,475	11,132
Middle East	129	37	15.5	578	20				15.5	636	7	25.0		2,093
South Asia	1.033	300	15.5	4,643	136	17:0			15.5	7,945	85	25.0	2	17,032
Africa	177	51	15.5	797	28			88	15.5	1,364	10	25.0		2.887
	322.278	131,618		1,456,466	6,617		105,743	179,658		1,233,776	4,385		101,258	101,258 2,897,243

Table A12.1.4 Projection of Tourist-Nights to 2015	4 Proiecti	on of Tou	rist-Night	ls to 2015 (("Withou	t project/	program'	"Without project/program" case) (22/23)	/23)					
Country/Region	2015	Leisure	ALS	Tourist- Nights	VFR	ALS	Tourist- Nights	Business	ALS	Tourist- Nights	Other	ALS	Tourist- Nights	Total- Tourist- Nights
							0000	1 050	3 31	CUO OC	1201	245	751 2	84 328
Americas	5.072	2.959	17.0	50.311	120	201	2,0/9	000'1		70007	140			
11SA	20,369	.	17.0	182.799	610	16.5	10.065	8,601	15.5	133,316	405	24.5	9,923	336.105
	270 2		60	10 863	591	14.5	2 393	3.860	10.5	40,525	128	20.5	2,624	56,405
East Asia racine				140 667	88	14.5	2.726	11.034	10.5	115.854	255	20.5	5,228	593,474
Japan	2/0.8/	0	<u>, , ,</u>	100,204	200	745	220 0	5 956	10.5	62.534	189	20.5	3.875	86,010
Korea rep	9,120	4		220			104 01	105 930	5	158,909	958	20.5	19.639	191,240
China	107,798			007	100	1 Y Y	145.21	-	14.5	52.826	129	24.5	3.161	103.078
Australia	6,896	2.968	10.01	110.44		1.91								C80 01
Cen/East Europe	5 499	1.573	10.7	11.010	459	16.5	÷		14.5	47,350	202	2.5	N+7.4	700'0/
Precian Fed	13 747		6.5	61		16.0		-	13.5	157,532	509	24.0	12,216	194,709
Monhor Durant	767 81	11 021	10.51	166.062	400	16.5		6.977	14.5	101,172	188	24.5	4,606	278,441
Normicin Emope	16 555		0.21	07 195	213				14.5	138,979	279	24.5	6,836	246,524
Contract Contract	00001		0.21		188			2.897	14.5	42,011	100	24.5	2,450	120,490
Sourcen Emore	001 11				225		3.713	4,140	14.5	60,032	136	24.5	3,332	167,552
	12 151				158			3,165	16.5	52,221	136	24.5	3,332	214,615
Germany	18 947	10.667			628	16.5			14.0	100,715	458	24.5	11,221	260,973
Switzerland	7.091			_	285	16.5		2.507	14.5	36,348	89	24.5	2,181	106.388
East/Med Furone	711	203	15.5	3.152	88	17.0	ŕ		15.5	5,497	65	25.0	1,625	11.770
Middle East	136		15.5		ส	17.0	367	68	15.5	1,050		25.0	193	7777
South Acia	1 090	(**	15.5	4.830	173	17.0	<u>_</u>	543	15.5	8,423	62	25.0	47	05/,/1
Africa	187		15.5			17.0	505	93	15.5	1.446	11	<u></u>	265	3,045
	347,789	143,269		1,590,469	6,736		107,690	193,349		1,345,542	4,434		102,332	3,146,034

Table A12.1.	Table A12.1.4 Projection of Tourist-Nights to 2015	Tourist	t-Nights to 2		hout projec	:t/program'	("Without project/program" case) (23/23)	\sim				
Country/Region	Proportion Proportion Proportion	portion	Proportion	AAG of	AAG of	AAG of	AAG of	AAGof	AAG of	AAG of	AAG of	AAG of
	of Total of Leisure	Leisure		Total 7011-2015)	Leisure	Business	∑006-2015)	Leisure	Business (2006-2015)	Total (1997-2015)	Leisure (1997-2015)	Business (1997-2015)
A		70C.C.	Your Constants	%0 01	0.60%	16.2%			%0 ⁻ 01/2-2/4	11.5%	13.5%	11.9%
Americas	;7! **	877 L		7.8%	8.5%		6.7%		×***	8.8%		10.1%
Bast Asia/Danifia		70L U		10.5%	9.4%	12.3%	%1%	100 C 100 C	%TTI ***	7.2%	5.0%	8.8%
Tanan	18.0%	10 50°	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	8.5%	8.3%			7.8%	NE 10.1%	10.8%		13.6%
Jupui Kores ren	のからいというで	%0 E	の発表で	8.0%	6.9%					5.6%		7.3%
China tep	語言というな	0.0%		5.0%	-1.7%					5.7%		7.0%
Anstrolia		2.8%	20	10.0%			%8.6	の記録		11.1%		12.4%
Can/East Emone	10 Contraction	YoL UNIT	AT WARK BURN	5.1%		6.8%	0.00 A 9%	2.2.2°	%12Lander	4.6%	2.9%	6.1%
Russian Fed				2.0%								2.9%
Nambar Even	ALL ALL AND CONCERNENCE	205.01	Ser an and	10.6%			261-05-02.00 P	2.00	SS 11.8%	11.0%	11.6%	12.3%
		201 7 6		20.04								11.9%
UN Souther Europe	000	No. Cor		10.2%		12.8%			%0.TI >>>			12.4%
Western Europe	5.30			10.6%				8.8%				12.6%
Prosicili Europe		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		10.5%						11.1%		12.2%
Germany	200 B	8 7%	政策论		1							%0.11
Switzerland	S 2 2 406	4.0%				-			10.7%	10.8%	11.4%	11.8%
Eact/Med Eurone	Strate No P. O. Merster and	%C:0-:/~	Sec. Sec.	6.0%	4.2%	6.0%		4.1%	0%) × 0%	4.5%	2.9%	5.1%
Middle Fast		0.0%		5.5%			ol 5.5%					5.1%
South Asia		1 0 3 W		5.5%				×	6.0%	4.4%		5.1%
Africa	01% S	0.1%		5.6%				4.4%	6.2%	4.8%	3.3%	5.5%
	222100:0% 20100:0% 20100:0%	N100.0%	100:0%	8.4%	8.7%	6 9.4%	6 . C. E. N. 7. 5%	\ <u>~</u>		8.6%	10.7%	8.6%
Source: JICA Study Team	Tcam											

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Americas	ODOT LOD IN	Propertion Propertion Propertion	Proportion	AAG of	AAG of	AAG of	AAG of	AAG of	AAG of	AAG of	AAG of	AAG of
Americas	f Total	of Total of Leisure	Contract of the local division of the local	tal 2010)	Leisure	Business	Total	Leisure	Business	Total (1997-2015)	Leisure	Business [1997-2015)]
Americas		* 1 × 1 × 1 × 1	BUSINCSS		(2107-1107)	-17.7						11 00/
1.01	2.7%	32%	2.1%	%6'01	9.6%	16.2%	10.7%		- 4 .	0/ C. 11		0/4.11
	10.7%	× 11 5%		7.8%	8.5%	8.2%	6.7%	6.4%	8.8%	8.8%	10.2%	10.1%
Eact A cia/Davifie	1 20%		%0 E	10.5%	9.4%	12.3%	%1'6	7.2%	11.1%	7.2%	5.0%	8.8%
Last Asturi active	10.0%			8.5%					10.1%	10.8%	10.5%	13.6%
Vapar Par	10			8.0%								7.3%
	× - ×			5.0%	•		-		6.2%			7.0%
Australia	33%			10,0%				9.2%	11.9%	11.1%	12.2%	12.4%
Can/Fact Furnha	1% C C	S. Market Con-	4 UV 1	5.1%	3.8%	6.8%	4.9%	3.7%	7.1%	4.6%	2.9%	6.1%
Russian Fed	6.2%	100 A.		2.0%					2		0.4%	2.9%
Northern Eurone	200 8		1942	10.6%			9.1%	8.7%	. 11.8%	11.0%	11.6%	12.3%
	7 20%			9.7%						-		11.9%
CN Southern Furnha	2 20%			10.2%		12.8%		8.3%	-		12.1%	12.4%
Western Furne	5 3%			10.6%						11.3%		-
France	200			10.5%	_	-					11.3%	12.2%
Germany	8.3%			9.2%	1	10.4%	8.3%	9.1%	53		%9.11	11.0%
Switzerland	3.4%			0.0%			8.5%		10.7%	10.8%	11.4%	11.8%
Fact/Med Furone	0.4%	0.2%		6.0%	1 4.2%	6.0%	5.7%	4.1%	6.0%	4.5%	2.9%	5.1%
Middle East	0.1%			5.5%			5.5%	4.2%	6.0%	4.4%	2.9%	5.1%
South Asia	0.6%			5.5%	4.2%						2.9%	5.1%
Africa	0.1%	N		5.6%				4.4%	6.2%	4.8%	3.3%	5.5%
	100.0%	100.0%	10	S.4%	8.7%	9.4%	7.5%	8.1%	8.4%	8.6%	10.7%	8.6%

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A14.1 Evaluation of Master Plan

A14.1.1 Future Economy in Mongolia and the Tourism Section

1) Impact of Promotion on Tourist Arrivals

One may wonder to what extent would the effort in tourism promotion affect the actual amount of total tourist receipt and arrivals in Mongolia. How much will the number of tourist arrivals increase compared with the case of doing nothing? In reality it is extremely difficult to answer such a question as tourist arrivals is highly depended on a host of factors, of which many are nothing to do with tourism itself such as regional security. Nevertheless it is important to know the rough range of such difference. The Study Team has attempt to carry out an analysis of NTA/NTO promotional budgets and tourist arrivals using data published by WTO titled "Budgets of National Tourism Administrations, WTO, 1996". The promotional budget of a NTA/NTO was taken to represent the level of effort in promotion in that particular country. Available data are not uniform across all countries. The subject of this analysis therefore was limited to those countries with tourism administration budget and tourist arrivals data available for both 1991 and 1995. The total number of subject countries was 98, spreading in all regions of the world.

Each of the subject country was classified into either mature market or immature market based on the Study Tea's market assessment. The designations are shown in Table A14.1.1, which presents data for each of the 98 countries. As expected, high spending countries are found primarily among mature markets, and countries with immature market spend less. It is interesting that among mature markets higher spending per tourists tends to accompany a lower growth rate, suggesting diminishing return on investment.

All countries described in Table A14.1.1 seem to indicate no relationship between the promotional budget and the tourist arrivals. However, a closer inspection of the relationship classified by world regions reveals some basic tendencies as well as regional difference.

Countries in Oceania spend a lot on promotion, indicating the importance of tourism in their respective countries. Barring New Caledonia, where political strife suppresses tourism, the general tendency is more promotion, more tourists. Except for Kiribati, all countries are in the mature market category and the difference between active promotion and not so active promotion resulted in the difference in tourist growth rate of about 3 percent. Countries in Central Europe spend next to nothing in tourism promotion and nothing can be said. African countries tend to have registered low growth and show no pattern, indicating various difficulties these countries are facing. Countries of Americas show a positive co-relationship between promotion budget and growth rate although the rates themselves are not high. The difference in growth rate between active and non-active countries is in the range of 6 percent. The most clear tendency of positive co-relationship between the promotion budget and the growth rate is found among southern European and Mediterranean countries. Here the difference between active and non-active and non-active countries.

Region and Country Tourist Arrivals Promotion Budget Per Tourist (USS 000) 1 2 13 Ext Asia 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 1991 1995 261 11145 14515 Mature Arcea 3,047 4,023 1,663 3,680 0.551 6.66 6.66 0.975 Mature 1375 Mature Tairaa 1,852 2,392 3,634 3,600 0.931 13,8054 12,095 Mature 1375 Mature 138,054 12,095 Mature 14060250 1375 Mature 14060251 12,055 4,031 3,031 0,41 0.22 0.995 33,05 138,054 12,095 Mature 14060251 12,055 14,051 14061 <t< th=""><th>Table A14.1.1</th><th>LOULIS</th><th>ATTIVA</th><th>Sanuri</th><th>Uniotion</th><th>Duugu</th><th>(1/3)</th><th></th><th></th><th></th><th></th></t<>	Table A14.1.1	LOULIS	ATTIVA	Sanuri	Uniotion	Duugu	(1/3)				
Control 1991 1992 1993 1991 1995 AVG 5% 18 East Asia 12,461 23,365 3,148 5,019 0.23 0.22 0.21 17,01% 12,345 Mature Hong Kong 6,795 10,365 16,653 28,617 2,45 2,76 2,61 11,148 14,4515 Mature Korea, Republic (cl 3,169 2,312 3,633 3,600 1,55 8,600 6,83 1,097 1,51 1,75 5,897 0,375 Mature Total 7,357 44,444 2,749 2,877 1,56 1,60 1,2908 14,1996 Mature Southeast Asia - - - 1,000 0,991 1,8694 1,2696 Mature Maturest Asia - - - - 1,000 0,991 1,8694 1,1696 1,3898 9,1794 3,866 Mature Support 4,913 6,422 3,23,353 5,39 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>*1</td> <td>*2</td> <td>*3</td>									*1	*2	*3
East Asia 1971 1972 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1974	Country		Concession of the local division of the loca	And the Party of t		_	the second s	AVC	0/	0/4	
Chins 12,464 23,68 3,148 5,049 0.25 0.22 0.221 12,245 Monto Korea, Republic off 3,196 3,753 17,651 30,308 5,52 8,08 6,60 4,076 14,3096 Mature Warey 3,047 4,633 1,663 5,083 1,0 6,82 10,0886 32,225 Mature Taiwan 1,855 2,332 3,654 3,600 1,97 1,54 1,76 5,896 4,108 Mature Mongoffa 7 19 2 3 0,31 0,14 0,22 3,00655 6,785 Immature Southcast Asia - - 2,212 7,800 2,30 4,46 3,389 0,715 1,8656 1,8696 1,20956 Mature Malaysia 5,847 6,900 1,642 3,233 3,595 7,59 8,33 7,97 6,936 3,4566 Mature 1,811 1,613 1,997 3,419 5,52		<u> </u>	1995			1991	6661		/0		
Linito 12/102 12/102 12/102 12/102 12/102 14/102<		12.44	22.260	2 1 4 9	5 0 10	0.25	0.22	0.23	17.01%	12.54%	Mature
Rome, Republic 0.102											
Norts 1.00 0.82 10.982 10.982 32.22% Mature Taiwan 1,855 2,332 3.654 3.609 107 158 1.75 5.89% 0.32% Mature Margolia 7 19 2 3 0.31 0.14 0.22 30.055 6.783 Immature Southeast 3 0.22 30.055 6.783 Immature 30.055 6.783 Immature Southeast 2.570 4.319 2.636 4.161 1.03 0.96 0.99 13.865 12.099% Mature Matayisis 5.847 6.016 2.2242 2.239 3.80 3.98 3.89 3.80 3.99 3.86 10.78 1.866 Mature Mature 13.15 1.760 2.242 2.299 3.80 3.99 3.595 Mature 17.15 1.456 Mature 13.15 1.866 2.212 17.86 18.856 2.217 18.464 77.22 3.23											
Taiwan 1.855 2.332 3.658 3.660 1.97 1.56 1.66 1.60 1.698 4.001 Mongolia 7 19 2 3 0.31 0.14 0.22 30.0655 6.7856 Immature Southeast Asia -								0.82			
Total 27,357 44,444 42,749 72,677 1.56 1.64 1.60 12,9058 14,1996 Maure Mongolia 7 19 2 3 0.31 0.14 0.22 30.0656 6.7858 Immature Southeast Asia 2,570 4,319 2,636 4,161 1.03 0.96 0.97 13,8656 12.0996 Mature Malaysia 5,847 6,916 6,222,412 23,993 3.80 3.80 0.715 1.8666 Mature Singapore 4,913 6,622 37,293 35,357 7.59 8.35 7.79 32,8676 Mature Total 19,266 25,359 80,724 139,973 4.19 5.22 4.85 7.1194 14,7536 Mature South Asia 113 159 80,724 139,973 4.19 5.22 4.85 7.1194 4.7535 Mature Malaysia 113 159 80,724 139,973 4.19											
Mongolia 7 19 2 3 0.31 0.14 0.22 30.065% 6.78% Minimature Southeast Asia 2,570 4,319 2,636 4,161 1.03 0.96 0.99 13,66% 12,09% Mature Malaysia 5,847 6,016 22,242 23,939 3.80 3.98 3.89 0,715 1.86% Mature Singapore 4,913 6,422 37,293 3.555 7.59 8.33 7.97 6,939 4.97 Mature Total 19,266 25,359 80,724 139,973 4.19 5.52 4.85 7.115% 14.735% Mature South Asia 166 1.11 10.81 7.42 5.52 4.85 7.115% 14.45% Mature Maldives 196 324 413 566 2.11 1.81 19,985 5.63% Inmature Sint Asia 156 3.14 10.1 1.81 1.274 2.93				42,749	72,677	1.56	1.64		the second se	the second s	
Indonesia 2,570 4,319 2,636 4,161 1.00 0.950 0.398 3.80 1.205% Mature Philippines 849 1,702 2,242 2,399 3.80 3.98 3.89 0.716% 1.86% Mature Singapore 4,913 6,412 37,292 53,595 7.97 6.91% 9.495% Mature Total 19,266 25,339 80,724 139,973 4.19 5.52 4.85 7.11% 14.75% Mature South Asia 16,738 2,122 12,291 18,648 7.72 8.79 8.25 6.01% 9.555% Mature Mathives 166 3.34 346 160 1.112 0.48 3.21 18.5 0.89% 6.237% Mature Nepal 3.34 346 160 1.112 0.48 3.21 18.5 0.89% 6.237% Mature Srit Larke 318 451 9990 1.23 3.11	Mongolia		19	2	3	0.31	0.14	0.22	30.06%	6.78%	Immature
Industria 2,223 1,253 1,253 1,253 1,253 1,253 1,253 1,253 1,253 1,253 1,253 1,253 1,253 1,155	Southeast Asia									10.000/	1.6.6
Naraysia John											
Printpines 917 1/102 21.20 3.252 7.25 3.35 7.97 6.93% 9.49% Mature Total and 5,087 6,900 16,431 51,198 3.22 7.42 5.32 7.92% 32.86% Mature Total 19,266 25,359 80,724 139,973 4.19 5.52 4.85 7.11% 14.75% Mature South Asia 113 150 81 74 0.72 0.49 0.61 7.34% -2.23% Immature Maldives 196 3.24 413 586 2.11 1.81 1.96 13.39% 9.14% Mature Negal 313 46 160 1.12 0.48 3.21 1.83 0.89% 62.37% Mature Sri Lanka 318 451 990 1.235 3.11 2.74 2.93 9.13% 63.85 10.37% Immature Oceania 3 3 1.650 2.450 6.37 7.29 <td></td> <td></td> <td>6,016</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			6,016								
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South Asia South Asia South Asia South Asia Bangladesh 113 150 81 74 0.72 0.49 0.61 7.34% -2.23% Immature Maldives 196 324 413 586 2.11 1.81 196 13.39% 9.14% Mature Negal 334 346 160 1.12 0.48 3.21 1.83 0.89% 62.37% Mature Sri Lanka 318 451 920 1.235 5.53 6.38 5.96 6.48% 10.37% Immature Cceania											
Bangladesh 113 150 81 74 0.72 0.49 0.61 7.34% 2.25% Immature Innature Maliatives India 1.678 2.122 12,947 18,648 7.72 8.79 8.25 6.04% 9.55% Mature Nepal 334 346 160 1.112 0.48 3.21 1.85 0.89% 62.37% Mature Sri Lanka 318 451 990 1.235 3.11 2.74 2.33 9.13% 5.6624 Immature Total 2,639 3,393 14,591 21,655 5.53 6.38 5.96 6.48% 10.37% Immature Australia 2,370 3,771 63.382 87,949 26.74 23.32 25.03 12.31% Mature French Polynesia 121 172 3,717 66.629 30.72 38.54 14.03 37.88 1.51% 5.95% Mature Kex Caledonia 81 84 7 48	the second secon	19,200	23,339	00,724	- 137,713	4.17	<i></i>				<u> (</u>
Obsigedesit 113 120 120 18,648 7.72 8.79 8.25 6.04% 9.53% Mature Maldives 196 324 413 586 2.11 1.81 1.96 13.39% 9.14% Mature Nepal 314 346 160 1.112 0.48 3.21 1.83 0.89% 6.237% Mature Sri Lanka 318 451 990 1.233 3.11 2.74 2.93 9.13% 5.68% Immature Oceania		112					<u> 149</u>	0.61	7.34%	-2.23%	Immature
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Australia 2,370 3,771 63,382 87,949 26.74 23.32 25.03 12,31% 85,33% Mature French Polynesia 121 172 3,717 66,29 30,72 38.54 34.63 9,19% 15.56% Mature Kiribati 8 4 7 48 0.88 12.00 6.44 -15.91% 61.82% Immature New Caledonia 81 86 2,807 3,535 34.65 41.10 37.88 1.51% 5.93% Mature New Caledonia 81 86 2,807 3,535 34.65 41.10 37.85 13.06% Mature Nariana Isl. 422 587 1,106 3,295 2.62 5.61 4.12 8.60% 31.38% Mature Tonga 222 29 1,777 2,522 80.77 7.766 79.21 7.15% 6.10% Mature Tonga 5.394 4,339 6,394 9.37 11.575	Oceania										<u> </u>
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Central America Control											
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Canada 14,912 16,854 24,500 31,504 1.64 1.87 1.76 3.11% 6.49% Mature Mexico 16,281 19,870 58,512 22,574 3.59 1.14 2.36 5.11% -21.19% Mature USA 20,432 24,675 12,000 15,000 0.59 0.61 0.60 4.83% 5.74% Mature		t	1	<u> </u>	1	1			1		
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USA 20,432 24,675 12,000 15,000 0.59 0.61 0.60 4.83% 5.74% Mature						3.59	1.14	2.3	6 5.119	6 -21.19	6 Mature
			24,675	12,000	15,000	0.59					
				95,012	69,078	1.84	\$] 1.13	1.4	8 4.439	6 7.669	Mature

Table A14.1.1 Tourist Arrivals and Promotion Budget (1/3)

Source: WTO

Final Report, July 1999

Pasian and	Tourist A	Trivals	Promotion	n Rudget		Per Tourist		• 1	+2	•3
Region and Country	(00		US\$			(US \$ 000)		•	-	•
Coendy	1991	1995	1991	1995	1991	1995	AVG	%	%	
Middle East									[
Egypt	2,112	2,872	586	21,000	0.28	7.31	3.79	7.99%	144.67%	Mature
Iraq	268	330	1,000	600	3.73	1.82	2.77	5.34%	-11.99%	Immature
Lebanon	198	402	770	3,333	3.89	8.29	6.09	19.37%		Immature
Oman	161	350	375	750	2.33	2.14	2.24	21.43%	18.92%	Immature
Qatar	141	250	329	526	2.33	2.10	2.22	15.39%	12.45%	Immature
Yemen	72	60	36	100	0.50	1.67	1.08	-4.46%		Immature
Total	2,952	4,264	3,096	26,309	1.05	6.17	3.61	9.63%	70.74%	Immature
Central Europe										
Czech Rep	11,500	16,600	898	2,398	0.08	0.14	0.11	9.61%	27.83%	Immature
Hungary	21,860	22,087	3,100	6,612	0.14	0.30	0.22	0.26%		
Potand	11,350	19,225	2,670	6,709	0.24	0.35	0.29	14.08%		Mature
Romania	3,000	2,750	852	2,291	0.28	0.83	0.56	-2.15%		Immature
Slovakia	635	1,125	381	547	0.60	0.49	0.54	15.37%	9.46%	Immature
Tota!	48,345	61,787	7,901	18,557	0.16	0.30	0.23	6.33%	23.80%	Immature
Northern Europe										
Finland	786	835	14,666	17,777	18.66	21.29	19.97	1.52%	4.93%	Mature
Iceland	143	182	965	1,877	6.75	10.31	8.53	6.21%		Immature
Ireland	3,571	4,398	37,254	37,811	10.43	8.60	9.51	5.35%	0.37%	Mature
United Kingdom	17,125	22,700	69,469	78,710	4.06	3.47	3.76	7.30%	3.17%	Mature
Total	21,625	28,115	122,354	136,175	5.66	4.84	5.25	6.78%	2.71%	Mature
Sothern Europe										
Albania	45	29	25	54	0.56	1.86	1.21	-10.40%	21.23%	Immature
Croatia	1,521	2,418	4,735	14,498	3.11	6.00	4.55	12.29%	32.28%	Immature
Greece	8,036	9,331	30,215	13,496	3.76	1.45	2.60	3.81%	-18.25%	Mature
Italy	25,878	29,184	16,121	14,198	0.62	0.49	0.55	3.05%	-3.13%	Mature
Portugal	8,657	9,513	25,698	37,271	2.97	3.92	3.44	2.39%		Mature
San Marino	582	550	40	107	0.07	0.19	0.13	-1.40%		Mature
Spain	38,539	45,125	81,990	78,647	2.13	1.74	1.94	4.02%		Mature
Total	83,258	96,150	158,824	158,271	1.91	1.65	1.78	3.66%	-0.09%	Mature
Western Europe	1									
Austria	19,092	17,750	35,035	47,254	1.84	2.66	2.25	-1.81%		Mature
Belgium	4,928	5,224	3,647	4,425	0.74	0.85	0.79			Mature
France	55,041	60,584	68,726	72,928	1.25	1.20	1.23	2.43%		Mature
Germany	15,648	14,535	17,658	20,151	1.13	1.39	1.26			Mature
Liechtenstein	71	63	118	229	1.66	3.63	2.65			Mature
Luxembourg	861	770	1,611	2,367	1.87	3.07	2,47	-2.75%		Mature
Netherlands	5,842	6,304	38,600	49,700	6.61	7.88	7.25			Mature
Switzerland	12,600	11,835								Mature
Total	114,083	117,065	196,244	229,287	1.72	1.96	1.84	0.65%	3.97%	Mature
East Medit. Europe										
Cyprus	1,385	2,150		20,790		9.67	9.20			Immature
Turkey	5,158	6,512	13,733	20,520						Mature
Total	6,543	8,662	25,819	41,310	3.95	4.77	4.36	7.27%	2.47%	Mature
South America							L	 		
Brazil	1,475	1,695		1,790	3.27		2.16			
Chile	1,349	1,750	923	2,737	0.68					Immature
Colombia	857	1,310	2,248	911	2.62					Immature
Ecuador	365	485	796	400	2.18					Immature
Paraguay	361	407	187	151	0.52					Mature
						• A AZ		1 15 656/		Hormsburg
Peru Total	232	386 6,033	2,275 11,245	793 6,782	<u>9.81</u> 2.42					Immature Immature

Table A14.1.1 Tourist Arrivals and Promotion Budget (2/3)

Source: WTO

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Region and Country	Tourist A (00		Promotion (US\$)		-	er Tourist US S 000)		*1	•2	*3
an a	1991	1995	1991	1995	1991	1995	AYG	%	%	
East Africa										
Brundi	125	18	26	69	0.21	3.83	2.02	-38.40%	• · · · · · · · · · · · · · · · · · · ·	Immatur
Comoros	17	18	57	94	3.35	5.22	4.29	1.44%		Immatur
Ethlopia	82	99	261	2,777	3.18	28.05	15.62	4.82%		lenmatur
Mauritius	301	409	2,600	4,390	8.64	10.73	9.69	7.97%		Mature
Seychelles	90	117	2,179	2,013	24.21	17.21	20.71	6.78%		Mature
Zambia	171	136	1,180	1,385	6.90	10.18	8.54	-5.56%		Immatu
Total	786	797	6,303	10,728	8.02	13.46	10.74	0.35%	14.22%	Mature
North Africa										
Algeria	1,193	520	688	1,680	0.58	3.23	1.90	-18.75%		Immatu
Morocco	4,162	2,579	19,942	24,541	4.79	9.52	7.15	-11.28%		Mature
Tunisia	3,224	4,120	12,791	16,423	3.97	3.99	3.98	6.32%		Mature
Total	8,579	7,219	33,421	42,614	3.90	5.91	4.90	-4.22%		Mature
Lesto	182	101	73	364	0.40	3.60	2.00	-13.69%		Immatu
South Africa	1,710	4,676	15,964	23,809	9.34	5.09	7.21	28.59%		Mature
Total	1,892	4,777	16,037	24,173	8.48	5.06	6.77	26.05%	10.80%	Mature
West Africa										1
Benin	117	143	160	120	1.37	0.84	1.10			Immatu
Cameroon	84	85	108	931	1.29	10.95	6.12			Immatu
Cote d'Ivoire	200	164	433	940	2.17	5.73	3.95	-4.84%		Immatu
Gambia	66	79	252	335	3.82	4.24	4.03			Immatu
Mali	38	28	11	31	0.29	1.11	0.70			Immatu
Niger	16	11	326	171	20.38	15.55	17.96			Immatu
Nigeria	214	185	67	205	0.31	1.11	0.71			Immatu
Sierra Leone	89	74		152	1.10	2.05	1.58			Immatu
Total	824	769	1,455	2,885	1.77	3.75	2.76	-1.71%	18.66%	Immatu

Table A14.1.1 Tourist Arrivals and Promotion Budget (3/3)

Source: WTO

2) Expenditure of Each Market

Average daily expenditure by leisure tourists was calculated based on the interview survey results conduct by JICA Study Team and TACIS.

In calculating the average daily expenditure, international airfare component for those leisure tourists travelling on package tour arrangements has been deducted from the package price stated by the respondents. Further, profit margins to overseas tour operators and travels agent have tikewise been deducted from the stated package price.

Hence, the average daily visitor expenditure calculated in this report, can be considered as direct foreign exchange earnings to Mongolia from the surveyed tourists.

	(Unit: US\$
Country / Region	Average Daily Expenditure
Americas	173
USA	173
East Asia / Pacific	137
Japan	180
Korea Rep	137
China	50
Austratia	131
Cent/ East Europe	113
Russian Fed	69
Northern Europe	111
UK	103
Southern Europe	111
Western Europe	111
France	111
Germany	109
Switzerland	111
East / Med Europe	120
Middle East	120
South Asia	137
Africa	120

Table A14.1.2 Average Daily Expenditure by Leisure Tourists of Each Market

A18.3 Examples of Safety Standards

A18.3.1 Horse Back Riding in Japan

Main Qualifications for Instructor's License

Beginner-level

- Three-year experience
- Lecture attendance (2 or 3 days)
- Paper examination (e.g. safety, horse, etc.)
- Practical examination

Medium and Advanced Level

- Additional two or three-years experience after acquisition of the beginner-level license

Protection Tools

- A helmet is mandatory at the majority of horseback riding clubs.
- A protection vest and long leather boots are recommended at many horseback riding clubs.

Other Recommendations

- There should be an instructor or experienced rider both at the head and the rear of the group.
- Those participating who have had injury or serious illness should have a doctor's approval prior to riding.

Hot Air Ballooning in Japan

Main Qualifications for Pilot's License

- Medical examination (e.g. eyesight, hearing, etc.)
- Membership as a student pilot of the Japan Balloon Federation
- Experience as a student pilot (e.g. more than 10 flights and 10 times including inflation and deflation of a balloon, etc.)
- Experience of solo-flight
- Paper examination (score greater then 70%)

Protection Tools

- A helmet and gloves recommended

Canoeing and Kayaking in Japan

Main Qualifications for Instructor's License

- No official license required

- Proper experience (not specific)

Protection Tools

- Life jacket and other equipment suitable for the water temperature required

Rafting in Japan

Main Qualifications for Instructor's License

- No official license required

Protection Tools

- Life jacket and other equipment suitable for the water temperature required.

Rafting in New Zealand

Main Qualifications for Instructor's License

- Paper examination on first aid and rescue
- Practical examination on first aid and rescue

Protection Tools

- Lifejacket and helmet are mandatory.

A19.1 Plane Figure of Museum and Visitor Center Building

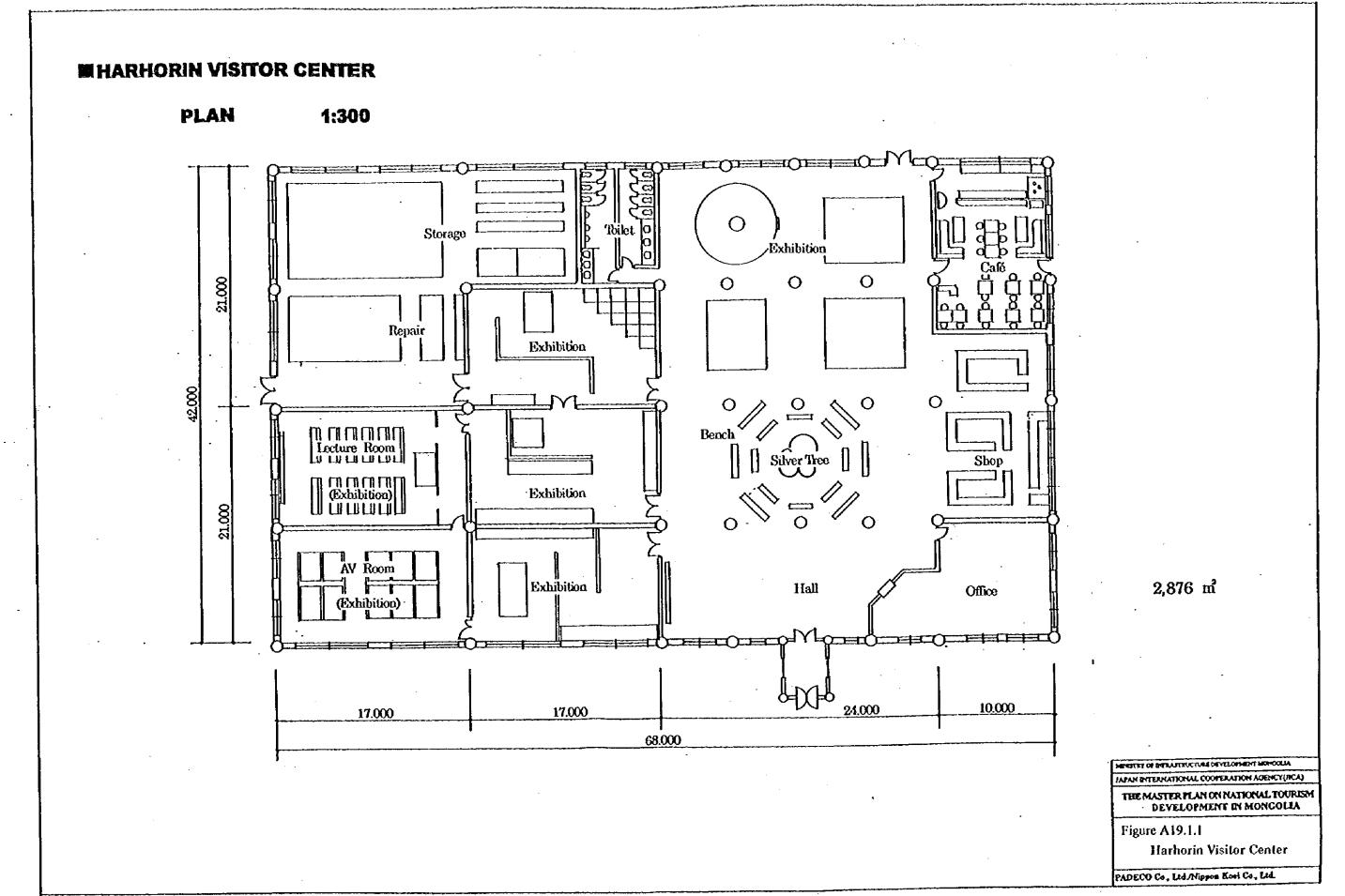
	Building	Design Scale	Floor Area(m ²)
1.	Harhorin Visitor Center	1:300	2,876 m ²
2.	Mongolian Culture Park (Central Museum)	1:250	970 m ²
3.	Handicraft Center	1:250	960 m²
4.	Bogd Khan Museum (New Service, Office and Storage Building)	1:250	620 m²
5	Tereli Visitor Center	1:250	230 m ²
6.	Omnogovi Visitor Center	1:250	360 m ²

The preliminary design of following buildings is made.

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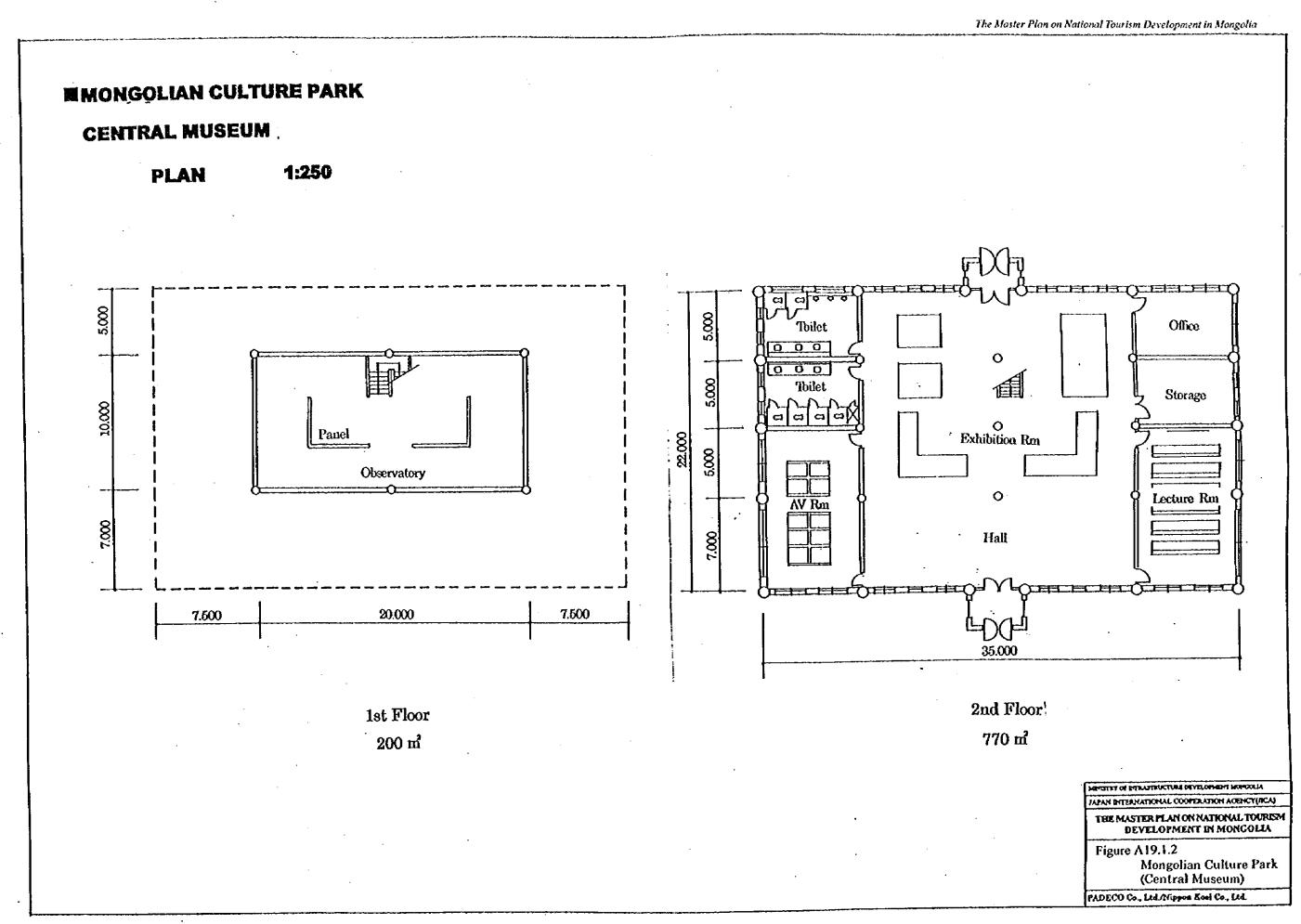
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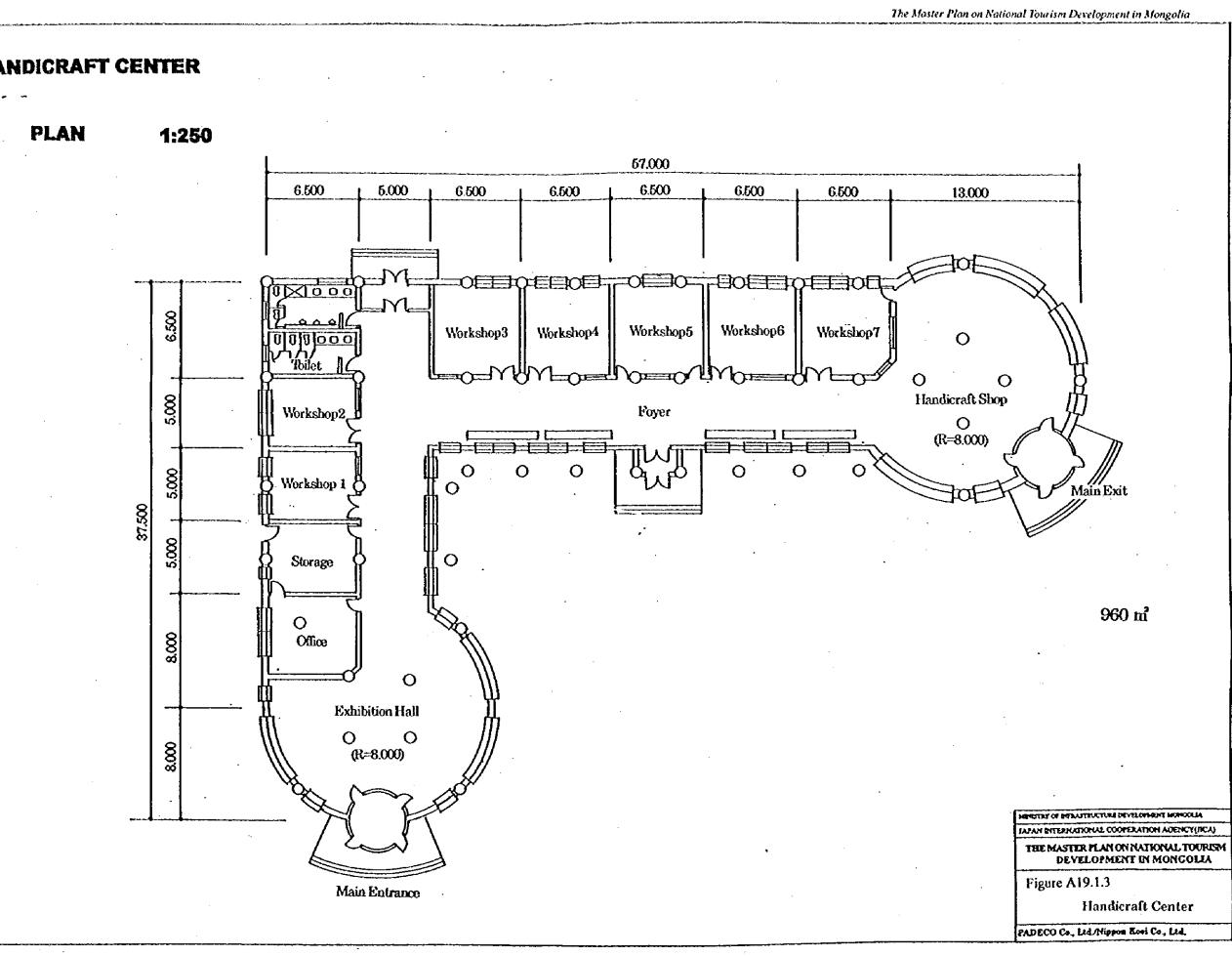


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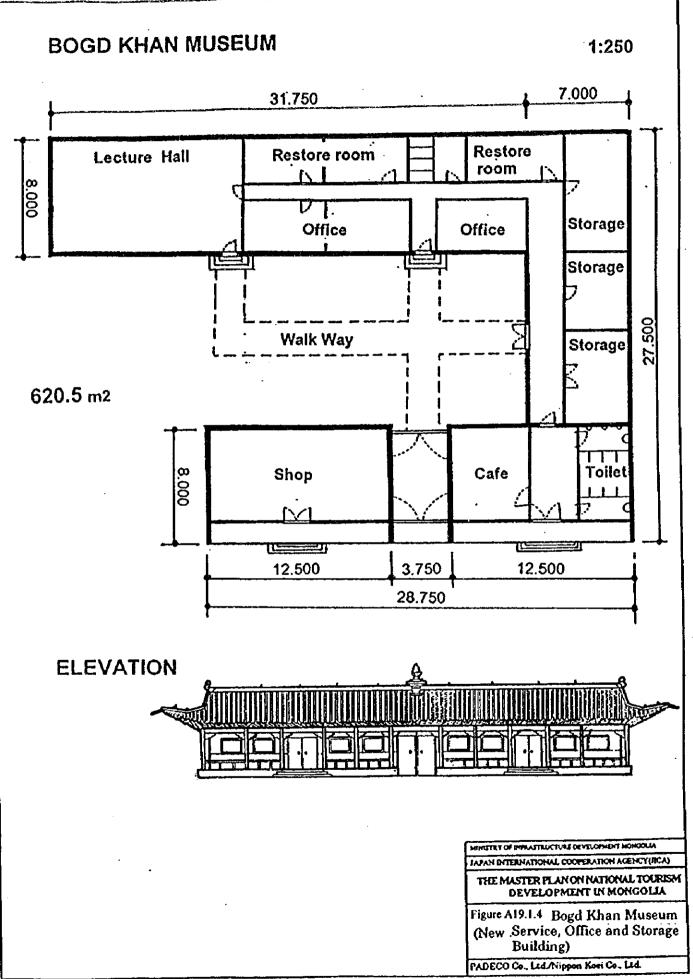
MHANDICRAFT CENTER



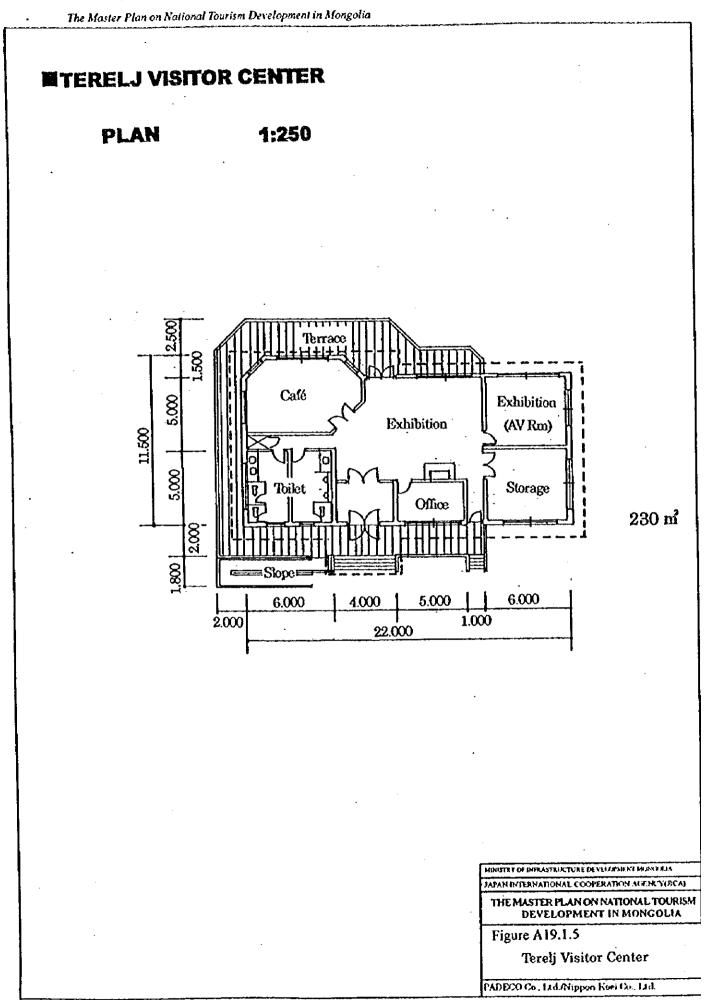
Final Report, July 1999

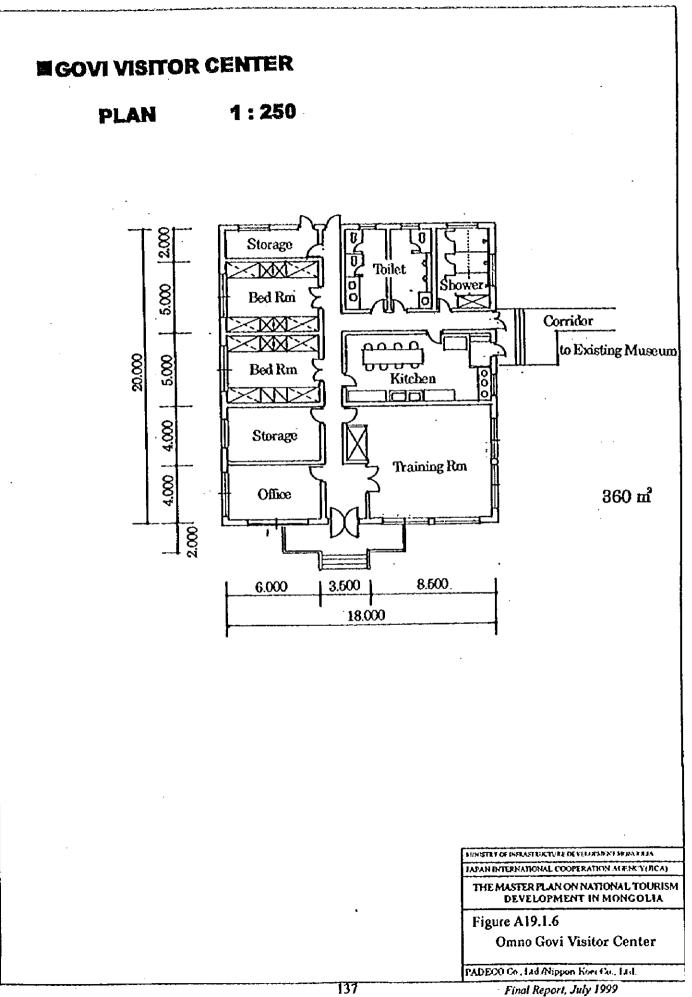
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Final Report, July 1999.





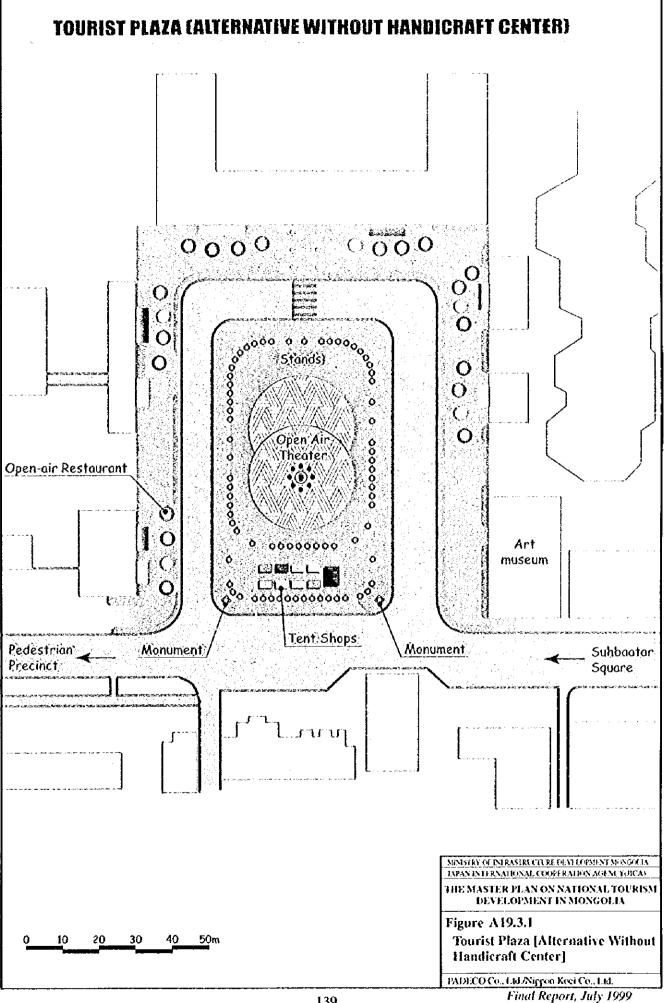
A19.3 Alternative Plan of Tourist Plaza

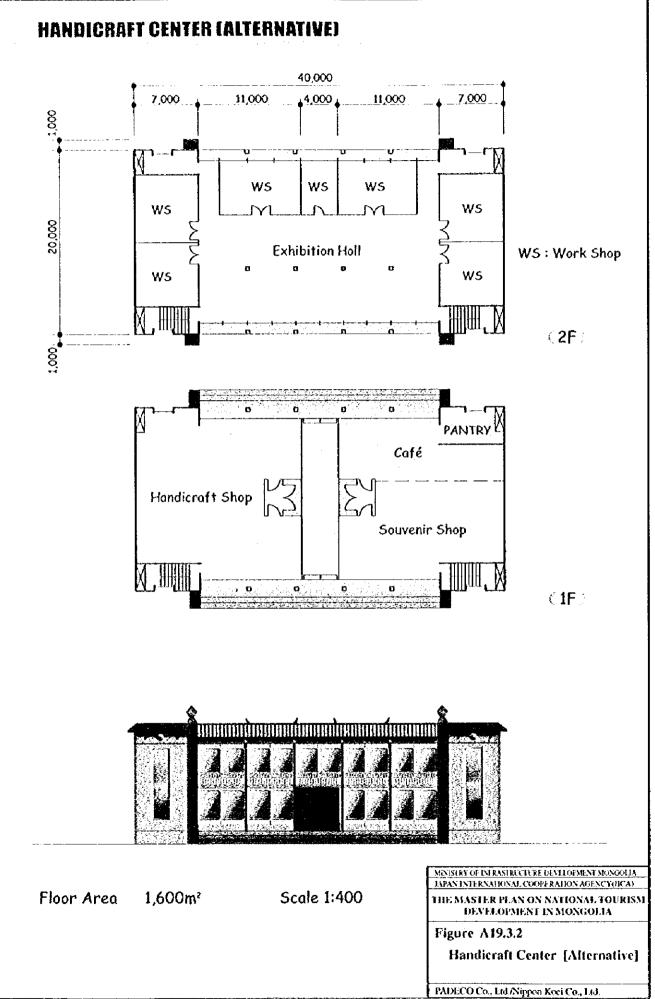
Development of tourist plaza is proposed in the 19.3 of the main text as the priority project. The alternative plan of the tourist plaza, which excludes the souvenir and handicraft center, is conceived in consideration of the limited land extent of the plaza area.

Designs of the alternative plan of the tourist plaza and the souvenir and handicraft center are presented in Figure A19.3.1 and A19.3.2 respectively.

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A19.8 Initial Environmental Examination (IEE)

A19.8.1 Objectives

The Initial Environmental Examination (IEE) is a preliminary environmental impact assessment. The IEE is conducted at an early stage of project development, however, is an effective tool to identify possible environmental and social effects and to guide further project development planning. The original formulation criteria or make-up of any project may be modified, if significant negative impact is predicted by the IEE.

The IEE is carried out for the proposed projects/programs that are expected to cause positive/negative impacts to the surrounding area concerning social and natural environment, and pollution. The main objective of this IEE is to identify possible environmental impacts in implementing the proposed master plan projects/programs based on available data/information and limited field reconnaissance.

However, the official IEE has to be done with the procedure adopted by Mongolian government. The results of IEE described in this Master Plan are the output from the JICA Study Team. It does not mean the decision of the authority of the Mongolian government. Thus, the official IEE results need to be introduced through the Mongolian government procedure. The official Environmental Impact Assessment (EIA) is also to be implemented with the procedure adopted by Mongolian government.

A19.8.2 Results of IEE for Proposed Projects / Programs

The JICA Study Team carried out the IEE for the proposed projects/programs in accordance with the JICA Environmental Survey Guidelines and summarized the projects/programs into the following three categories according to the workflow of the Mongolian Environmental Assessment:

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

Results of the IEE by proposed project/program are presented in the Table A3.1 (1/21-21/21) for Ulaanbaatar area, A3.2 (1/7-7/7) for Omnogovi area and A3.3 (1/9-9/9) for Harhorin area in the form of the environmental impact matrix.

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (1/21) Name of the Project/Program: Design and beautification of Tourist Trail (TACIS scope: design of trail)

UC3	igit			Remarks
			Evaluation	
	1	Resettlement	×	
-		Economic activities	0+	possible skewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	Δ-	potential traffic congestion for increase of tourist passengers at peak season
ë	4	Split of communities	×	
2	5	Cultural property	×	
	6	Water rights/Right of common	×	
Social	7	Public health condition	$\Delta \dagger$	potential decrease in tourist litter & barmful insects
S	8	Waste	Δ-	potential for tourist litter
1	9	Hazarðs	0+	potential decrease in traffic accidents
	10	Topography and geology	Δ	potential for changes
Environment	11	Soil crosion	Δ	potential for changes
Ę.	12	Groundwater	×	
١ <u>ڊ</u>	13	Hydrological situation	×	
ä	14	Coastal zone	×	
2	15	Flora and fauna	?	necessity for further study when designing the details.
Natural	16	Climate	×	
z	17	Landscape	Δ	potential for changes
	18	Air pollution	Δ-	potential for increase of emission from tourist traffic
	19	Water pollution	Δ-	potential for increase of sewage
Li OL	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
ñ	22	Land subsidence	×	
1	23	Offensive odor	×	
<u> </u>	1	Total Evaluation :	MND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (2/21) Name of the Project/Program: Improvement of Bogd Khaan Museum

		Item	Evaluation	Remarks
	1	Resettlement	×	
-	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
ncn	3	Traffic and public facilities	Δ-	potential traffic congestion for increase of tourist traffic at peak season
onr	4	Split of communities	×	
Environment	5	Cultural property	0+	potential for preservation of cultural heritage
Ξ	6	Water rights/Right of common	×	
Social	7	Public health condition	×	
\$°	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	×	
Environment	11	Soil crosion	×	
Ë	\$2	Groundwater	×	
ž	13	Hydrological situation	×	
	14	Coastal zone	×	
Natural	15	Flora and fauna	×	
l a	16	Climate	×	
2	17	Landscape	×	
	18	Air pollution	Δ	potential for increase of emission from tourist traffic
	19	Water pollution	Δ	potential for increase of sewage
Pollution	20	Soil contamination	×	
14	21	Noise and vibration	Δ-	potential for increase of tourist traffic
ě.	22	Land subsidence	×	
1	23	Offensive odor	×	
	1	Total Evaluation :	MND	

Note:

O = Major Impact, Δ = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required EIA.)

+ = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

	Itera		Evaluation	Remarks
	1	Resettlement	×	
Social Environment	2	Economic activities	0+	potential for generation of employment opportunities
	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
ino 1	4	Split of communities	?	necessity for further study
N	5	Cultural property	0+	potential for introduction of the nomadic life, etc. to residents & tourists
B	6	Water rights/Right of common	?	necessity for further study
Cial	7	Public health condition	×	
ŝ	8	Waste	Δ	potential for tourist litter
	9	Hazards	Δ-	potential increase in traffic accidents
	10	Topography and geology	Δ	potential for changes
Environment	T T	Soil crosion	Δ-	potential for soil trampling by construction vehicles
E	112	Groundwater	×	
AILC A	11	Hydrological situation	Δ-	potential for changes by intake and discharge of water
ធិ	14	Coastal zone	×	
Natural	15	Flora and fauna	×	
atu	16	Climate	×	
Z	17	Landscape	Δ	potential for changes
	18	Air pollution	Δ-	potential for increase of emission from trousit traffic
e	19	Water pollution	Δ-	potential for increase of sewage
10	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for tourist traffic
ă,	22	Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	MND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (3/21) Name of the Project/Program: Development of Mongolian Culture Park

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (4/21) Name of the Project/Program: Development of Souvenir & Handicraft Center

		Item	Evaluation	Remarks
ı	1	Resettlement	×	
	2	Economic activities	Δ+	potential for generation of employment opportunities
nen 1	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
No I	4	Split of communities	?	necessity for further study
Environment	5	Cultural property	0+	potential for introduction of ethnology to residents & tourists
ı ق	6	Water rights/Right of common	?	necessity for further study
Social	1	Public health condition	×	
S I	8	Waste	Δ-	potential for tourist litter
	9	Hazards	?	
	10	Topography and geology	Δ	potential for changes
ç	11	Soil crosion	Δ-	potential for soil trampling by construction vehicles
Ē	12	Groundwater	Δ-	potential for changes by intake and discharge of water
Environment	13	Hydrological situation	Δ-	potential for changes by intake and discharge of water
	14	Coastal zone	×	
Natural	15	Flora and fauna	Δ	potential for changes
at.	16	Climate	×	
Z .	17	Landscape	Δ	potential for changes
	18	Air pollution	Δ-	potential for increase of emission from tourist traffic
_	19	Water pollution	Δ-	potential for increase of sewage
ţ	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
Å	22	Land subsidence	×	
	23	Offensive odor	×	
<u> </u>		Total Evaluation :	MND	

Note:

 $O = Major Impact, \Delta = Small Impact, ? = Not Clear (Further study is needed.), X = None (Not required EIA.)$ + = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

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DA = Detailed Assessment: EIA will be required.

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (5/21) Name of the Project/Program: Hotel Development

		of the Project/Program: 1	Evaluation	Remarks
	1	Resettlement	×	
<u>ب</u>	2	Economic activities	0+	possible shewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	×	
u o	4	Split of communities	×	
, vi	5	Cultural property	×	· · · · · · · · · · · · · · · · · · ·
	6	Water rights/Right of common	×	
Social	7	Public health condition	<u>Δ</u> +	potential for improvement of sanitary management
S	8	Waste	∆+	potential for improvement of waste management
	9	Hazards	×	
	10	Topography and geology	?	further evaluation is needed when designs are determined.
ent	11	Soil crosion	?	further evaluation is needed when designs are determined.
Environment	12	Groundwater	Δ-	potential for increase of ground water intake
virc	13	Hydrological situation	×	
ä	14	Coastal zone	×	
ral	15	Flora and fauna	×	
Natural	16	Climate	×	
z	17	Landscape	?	further evaluation is needed when designs are determined.
	18	Air pollution	×	
_	19	Water pollution	Δ-	potential for increase of sewage and solid waste
	20	Soil contamination	×	
Pollution	21	Noise and vibration	×	
ă.	22	Land subsidence	×	
	23	Offensive odor	ж	
F	1	Total Evaluation :	ND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (6/21) Name of the Project/Program: National Bird Watching Circuit Sites

		ltem	Evaluation	Remarks
	1	Resettlement	×	
<u>_</u>	2	Economie activities	0+	possible skewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	Δ-	potential traffic congestion for increase of tourist passeagers at peak season
	4	Split of communities	×	
nvit.	5	Cultural property	×	
1 15	6	Water rights/Right of common	×	
Social	1	Public health condition	×	
S	8	Waste	∆⊸	potential for tourist litter
	9	Hazards	Δ+	potential decrease in traffic accidents
	10	Topography and geology	*	
Environment	11	Soil crosion	×	
1 C	12	Groundwater	×	
Ň	13	Hydrological situation	×	
	14	Coastal zone	×	
Natural	15	Flora and fauna	?	necessity for further study when designing the details.
atu	16	Climate	×	
z	17	Landscape	?	necessity for further study when designing the details.
	18	Air pollution	×	
_	19	Water pollution	к	
Pollution	20	Soil contamination	×	
lin l	21	Noise and vibration	×	
Å	22	Land subsidence	х	
	23	Offensive odor	×	
	1	Total Evaluation :	MND	

Note:

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ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

Table A19.8.1	IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (7/21)
Manual of the De	aloos/Program: Development of Tourist Street in Ulaanbaatar

ltem			Evaluation	Remarks
·	r ī	Resettlement	×	
Environment	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	Δ-	potential traffic congestion for increase of tourist at peak season
	4	Split of communities	×	
INI.	3	Cultural property	×	
5	6	Water rights/Right of common	×	
Social	17	Public health condition	Δ+	potential decrease in tourist litter & harmful insects
8	8	Waste	Δ-	potential for tourist litter
	9	Hazards	0+	potential decrease in traffic accidents
	10	Topography and geology	×	
č	11	Soil crosion	x	
Environment	12	Groundwater	×	
2	13	Hydrological situation	×	
5	14	Coastal zone	×	
19	15	Flora and fauna	×	
Natural	16	Climate	×	
Z	17	Landscape	Δ	potential for changes
	18	Air pollution		potential for increase of tourist traffic
-	19	Water pollution	×	
0	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
ř.		Land subsidence	×	
	23	Offeasive odor	£	
,	1	Total Evaluation :	MND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (8/21) Name of the Project/Program: Guide Book of Bus Route, Guidance at Bus Stop

		liem	Evaluation	Remarks
	1	Resettlemeat	×	
Social Environment	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	Δ+	potential for providing tourists with good services
		Split of communities	×	
1	5	Cultural property	×	
ធី	6	Water rights/Right of common	×	
C.a	7	Public health condition	×	
Š	8	Waste	×	
		Hazərds	×	
	10	Topography and geology	×	
Environment	11	Soil crosion	×	
E C	12	Groundwater	×	
VIL		Hydrological situation	×	
		Coastal zone	×	
Natural	15	Flora and fauna	×	
latu	16	Climate	×	
z	17	Landscape	X	
	18	Air pollution	×	
~	19	Water pollution	×	
tio	20	Soil contamination	×	
Pollution		Noise and vibration	×	
Å.	22	Laad subsidence	×	
	23	Offensive odot	×	
	1	Total Evaluation :	ND	

Note:

O = Major Impact, Δ = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required E1A.) + = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required. Source: JICA Study Team

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		of the Project/Program: 1	Evaluation	Remarks
	1	Resettlement	×	
Environment	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	×	
50	4	Split of communities	×	
λį.	5	Cultural property	0+	
ធ្ន	6	Water rights/Right of common	×	
Social	7	Public health condition	<u>Δ+</u>	potential for extention of public health management to residents
ŝ	8	Waste	×	
	9	Həzards	×	
	10	Topography and geology	<u>^</u>	potential for changes
Ē,	11	Soil crosion	×	
E U	12	Groundwater	<u>^-</u>	potential for increase of water intake and discharge
Environment	13	Hydrological situation	<u>A</u>	potential for changes
ង	14	Coastal zoae	×	
E	15	Elora and fauna	×	
Natural	16	Climate	×	
2		Landscape	Δ	potential for changes
	18	Air pollution	×	
e	19	Water pollution	Δ-	potential for increase of sewage
Pollution	20	Soil contamination	×	
통	21	Noise and vibration	×	
é.	22	Land subsidence	×	
	23	Offensive odor	×	
		Total Evaluation :	ND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (9/21) Besteat/Broaram: Tourism School in Illaanbaatar ... A ...

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (10/21) Name of the Project/Program: Development of Nature Reserve Rangers Training

<u> </u>	Item		Evaluation	Remarks
7	1	Resettlement	×	
ي	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
Social Environment	3	Traffic and public facilities	×	
Ë,	4	Split of communities	×	
1. Z		Cultural property	0+	
Ē	6	Water rights/Right of common	×	
cia	7	Public health condition	Δ+	potential for extention of public health management to residents
ŝ	8	Waste	Δ+	potential for extention of waste management to residents
	9	Hazards	×	
	10	Topography and geology	×	
Environment	11	Soil crosion	×	
Ë	12	Grouedwater	×	
ž	13	Hydrological situation	×	
	14	Coastal zone	×	
ral	15	Flora and fauna	×	
Natural	15	Climate	×	
2	17	Landscape	×	
	18	Air pollution	×	······································
_		Water pollution	×	
Lio.	20	Soil contamination	×	
Pollution		Noise and vibration	X	
Å	22	Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	ND	

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ND = Negative Declaration: No further study required.

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DA = Detailed Assessment: EIA will be required.

-	Item		Evaluation	Remarks
	1	Resettlement	×	
t	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
ac.	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
ių į	4	Split of communities	?	necessity for further study
1	5	Cultural property	Δ+	potential for introduction of cultural heritage
Social Environment	6	Water rights/Right of common	?	necessity for further study
çia	7	Public health condition	×	
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	×	
Environment	П	Soil crosion	Δ	potential for increae surface run-off by trampling.
La C	12	Groundwater	×	
NIC N	13	Hydrological situation	Δ-	potential for increae surface run-off by trampling.
	14	Coastal zone	×	
Natural	15	Flora and fauna	×	
latu	16	Climate	×	
2		Landscape	Δ	potential for changes
	18	Air pollution	Δ-	potential for increase of tourist traffic
e	19	Water pollution	Δ	potential for increase sewage
tio	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ	potential for increase of tourist traffic
<u>е.</u>	22	Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	DA DA	Development inside Protected Area requires EIA.

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (11/21) Name of the Project/Program: Visitor Center in Tereli

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (12/21) Name of the Project/Program: Construction of International Convention Center

		Item	Evaluation	Remarks
	1	Resettlement	×	
2	2	Economic activities	Δ+	possible skewed spread of lourist benefits to residents
5	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
Social Environment	4	Split of communities	?	necessity for further study
iv I	5	Cultural property	0+	potential for introduction & preservation of cultural heritage
91	6	Water rights/Right of common	?	necessity for further study
cia	7	Public health condition	×	
So	8	Waste	Δ	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	Δ-	potential for changes
Environment	11	Soil erosion	×	
Luc I	12	Groundwater	Δ	potential for increase of water intake and discharge
vir	13	Hydrological situation	∆	potential for increase of water intake and discharge
	14	Coastal zone	ж	
Natural	15	Elora and fauna	х	
atu	16	Climate	х	
2	17	Landscape	Δ	potential for changes
	18	Air pollution		potential for increase of emission from tourist traffic
	19	Water pollution	Δ-	potential for increase of sewage
2	20	Soil contamination	x	
Pollution	21	Noise and vibration	Δ-	potential for increase of traffic
ľ~	22	Land subsidence	x	
	23	Offensive odor	×	
	1	Total Evaluation :	MND	

Note:

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O = Major Impact, Δ = Small Impact, ? = Not Clear (Further study is needed.), \times = None (Not required EIA.) + = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required.

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Source: JICA Study Team

		of the Project/Program :	Evaluation	Remarks
		Resettlement	×	
.		Economic sctivilies	0+	possible skewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
	4	Split of communities	×	
5	5	Cultural property	0+	potential for introduction & preservation of cultural assets
ធ	6	Water rights/Right of common	×	
Social	7	Public health condition	×	
å	8	Waste	Δ	potential for tourist litter
	9	Harards	Δ-	potential increase in traffic accidents
	10	Topography and geology	×	والمحمد و
Environment	11	Soil erosion	×	
E	12	Groundwater	×	
VITC	13	Hydrological situation	×	· · · · · · · · · · · · · · · · · · ·
	14	Coastal zone	×	
rai	15	Flora and fauna	×	
Natural	16	Climate	×	
z	17	Landscape	×	
	18	Air pollutica	Δ-	potential for increase of emission from tourist traffic
-	19	Water pollution	Δ-	potential for increase of sewage
ţ,	20	Soil contamination	×	
Pollution	21	Noise and vibration		potential for increase of tourist traffic
<u>م</u>	22	Land subsidence	×	
	23		×	
	T	Total Evaluation :	MND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (13/21) 6.4. Destact/Broomen + Ungrading of Other Museums ...

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (14/21)

Name of the Project/Program: Gandantegchilen Monastery (renewal of precincts)

	Item		Evaluation	Remarks
	11	Resettlement	×	
<u>ц</u>	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	Δ-	potential increase of tourist passengers at peak season
ЪĞ –		Split of communities	×	
N.	5	Cultural property	0+	potential for preservation of cultural assets
μ	6	Water sights/Right of common	×	
Social	7	Public health condition	×	
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	Δ	potential for changes
Environment	Ï1	Soil crosion	×	
E	12	Groundwater	Δ	potential for increase of water intake and discharge
١¥ -	13	Hydrological situation	Δ-	potential for changes
۵.	14	Coastal zone	×	
Natural	15	Flora and fauna	×	
atu	16	Climate	×	
Z	17	Landscape	×	
	18	Air pollution	Δ-	potential for increase of tourist traffic
1_	19	Water pollution	Δ	potential for increase of sewage
19		Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
a.	22	Land subsidence	×	
	23	Offensive odor	×	
—	1	Total Evaluation :	ND	

Note:

O = Major Impact, Δ = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required EIA.)

+ = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

Table A19.8.1	IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (15/21)
N Calles De	

	• 1 -	Item	Evaluation	Remarks
	T T	Resettlement	×	
Environment	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	Δ-	potential increase of tourist passengers at peak season
		Split of communities	?	accessity for further study
i,	5	Cultural property	0+	potential for introduction & preservation of cultural heritage
ធ		Water rights/Right of common	?	necessity for further study
Social	17	Public health condition	×	
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	110	Topography and geology	?	necessity for further study when designing the details.
ç	ITT	Soil crosion	?	accessity for further study when designing the details.
Ê	12	Groundwater	?	necessity for further study when designing the details.
ŝ	13	Hydrological situation	?	necessity for further study when designing the details.
Environment		Coastal zone	×	
ē	15	Flora and fauna	?	necessity for further study when designing the details.
Natural	16	Climate	?	accessity for further study when designing the details.
Z	17	Landscape	?	accessity for further study when designing the details.
	18	Air pollution	Δ-	potential for increase of emission from tourist traffic
_	19	Water pollution	Δ-	potential for increase of sewage
Pollution		Soil contamination	×	
Ē	21	Noise and vibration	Δ-	potential for increase of courist traffic
ፈ		Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	MND	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (16/21) Name of the Project/Program: Horse Culture & Wild Horse Conservation and Education Park

(Horse Ranch)

<u>`</u>	Item		Evaluation	Remarks
	1	Resettlement	×	
ţ,	2	Economic activities	$\Delta +$	possible skewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	×	
	4	Split of communities	×	
	5	Cultural property	0+	
31	6	Water rights/Right of common	×	
Social	7	Public health condition	Δ+	potential for extention of public health management to residents
S	8	Waste	Δ+	potential for extention of waste management to residents
	9	Hazards	×	
Environment	10	Topography and geology	X	
	11	Soil crosion	×	
Ē		Groundwater	×	
vir	13	Hydrological situation	×	
	14	Coastal zone	×	
Natural	15	Flora and fauna	×	
atu	16	Climate	×	
2	17	Landscape	×	
	18	Air pollution	X	
-	19	Water pollution	×	
Pollution	20	Soil contamination	×	
١ą -	21	Noise and vibration	×	
ă.	22	Land subsideace	×	
	23	Offensive odor	×	
<u> </u>	1	Total Evaluation :	MND	

Note:

Note: $O = Major Impact, \Delta = Small Impact, ? = Not Clear (Further study is needed.), X = None (Not required EIA.)$ + = Positive Impact, - = Negative ImpactND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required. DA = Detailed Assessment: EIA will be required.

		of the Project/Program: C	Evaluation	Remarks
~~~~	11	Resettlement	?	accessity for further study
-	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
2 L	3	Traffic and public facilities	?	accessity for further study
Environment		Split of communities	?	necessity for further study
N.	5	Cultural property	×	
ធិ	6	Water rights/Right of common	?	necessity for fusther study
Social		Public health condition	?	accessity for further study
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	?	pecessity for further study
	10	Topography and geology	Δ-	potential for changes
ĕ	In	Soil crosion	Δ-	potential for soil erosion.
Ę	12	Groundwater	0-	possible to contaminate ground water by chemicals.
Eavironment	13	Hydrological situation	0	possible to contaminate water by chemicals.
á		Coastal zone	×	
	115	Flora and fauna	0-	accessity for further study when designing the details.
Natural	16	Climate	×	
z	17	Lacoscape		potential for changes
	18	Air pollution	Δ-	potential for increase of traffic
-	119	Water pollution	0-	potential by agriculture chemicals such as herbisides
5	20	Soil contamination	0-	potential by agriculture chemicals such as herbisides
Pollution	21	Noise and vibration	Δ-	potential for increase of traffic
Å	22	Land subsidence	×	
	23	Offensive odor	*	
	t	Total Evaluation :	DA	

#### Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (17/21) my Golf Course for UR Residents n.t.um-• • A ...

# Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (18/21)

Name of the Project/Program: Skiing Resort for UB citizen : Near UB

		liem	Evaluation	Remarks
	1	Resettlement	?	necessity for further study
_	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
5		Traffic and public facilities	Δ-	potential increase of tourist at peak season
Environment	4	Split of communities	?	necessity for further study
vi.	5	Cultural property	×	
	6	Water rights/Right of common	?	necessity for further study
Social		Public bealth condition	?	necessity for further study
Š	8	Waste	Δ-	potential for tourist litter
	9	Hazards	?	necessity for further study
	10	Topography and geology	Δ-	potential for structural development for skiing.
e u t	11	Soil crosion	Δ	potential for land cover changes.
Ê	12	Groundwater	Δ-	potential for increase of water intake and discharge
Environment	11	Hydrological situation	Δ-	potential for changes
Ě.	14	Coastal zoac	ж	
3	15	Flora and fayna	Δ	potential for land cover changes.
Natural	16	Climate	×	
Ż	17	Landscape	Δ-	potential for landscape changes.
<b>—</b> —	18	Air pollution	Δ-	potential for increase of motor vehicles.
_	119	Water pollution	Δ-	potential for increase sewerage.
Pollution	20	Soil contamination	×	
1	21	Noise and vibration	Δ-	potential impacts by increase of motor vehicles.
4	22	Land subsidence	×	
	23	Offensive odor	×	
<u> </u>	1	Total Evaluation :	DA	

Note:

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ND = Negative Declaration: No further study required.

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DA = Detailed Assessment: EIA will be required.

Table A19.8.1	IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (19/21)
	piect/Program: Improvement of UB Airport/new UB airport (after 2010)

Name of the Project/Program: Inf		Evaluation	Remarks	
	1	Resettlement	×	
Environment	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	۵-	potential traffic congestion for increase of tourist at peak season
		Split of communities	×	
ivir	5	Cultural property	×	
ង	6	Water rights/Right of common	×	
Social	7	Public health condition	Δ-	potential damage to residents by air pollution
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	Δ-	potential increase in traffic accidents
	10	Topography and geology	×	
Environment	$\overline{\mathbf{n}}$	Soil crosion	Δ~	potential increase in surface run-off.
Ê	12	Groundwater	×	
ji,	13	Hydrological situation	×	
E.	14	Coastal zone	×	
4	15	Flora and fauna	Δ-	potential changes of land cover.
Natural	16	Climate	×	
z	17	Landscape	×	
	18	Air pollution	Δ-	potential increase of traffic and air craft.
-	19	Water pollution	Δ-	potential for increase of oil and fuel spill, sewage
10 1	20	Soil contamination	Δ-	potential impacts by oil and fuel spill.
Pollution		Noise and vibration	Δ	potential increase for air traffic.
ñ,	22	Land subsidence	×	
	23	Offeasive odor	×	
	1	Total Evaluation :	DA	

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (20/21) Name of the Project/Program: Development of Terelj Area

	ltem		Evaluation	Remarks
7		Resettlement	×	necessity for further study
_	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
e l	3	Traffic and public facilities	Δ-	potential increase of lourist at peak season
Environment	4	Split of communities	?	necessity for further study
NIC	5	Cultural property	×	
Ē	6	Water rights/Right of common	?	necessity for further study
Social	7	Public health condition	×	
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	Δ-	potential increase in traffic accidents
	10	Topography and geology	Δ-	potential for changes
Environment	11	Soil crosion	Δ-	potential for soil trampling
E	12	Groundwater	Δ-	potential for increase of water intake
5	13	Hydrological situation	Δ	potential for changes
а Ш	14	Coastal zone	×	
ē	15	Flora and fauna	Δ-	potential for changes
Natural	16	Climate	×	
Z	17	Landscape	Δ-	potential for changes
	18	Air pollution	Δ-	potential for increase of tourist traffic
	19	Water pollution	Δ-	potential for increase sewage
ti or	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ	potential for tourist traffic
à	22	Land subsidence	×	
	23	Offensive odor	×	
<u> </u>	1	Total Evaluation :	MND	

Note:

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ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

Nar	Vame of the Project/Program: Road Improvement					
[		Item	Evaluation			
	1	Resettlement	?	necessity for further study		
2	2	Economic activities	0+	possible for economic stimulus to industries and residents		
5	3	Traffic and public facilities	Δ-	potential increase of tourist at peak season		
Environment	4	Split of communities	?	necessity for further study		
Ϊ¥.	5	Cultural property	×			
Ω Π	6	Water rights/Right of common	?	necessity for further study		
Social	1	Public health condition	×			
S I	8	Waste	Δ-	potential for tourist litter		
	9	Hazards	Δ+	potential decrease in traffic accidents		
	10	Topography and geology	Δ-	potential for topogaphy changes.		
Environment	11	Soil erosion	Δ-	potential for increase surface run-off.		
E C	12	Groundwater	×			
vic	13	Hydrological situation	Δ	potential for increase surface run-off.		
ά	14	Coastal zone	×			
ē	15	Flora and fauna	Δ-	potential for land cover changes.		
Natural	16	Climate	×			
Z	11	Landscape	Δ-	potential for landscape changes.		
	18	Air pollution	Δ-	potential for traffic increase.		
	19	Water pollution	Δ-	potential for increase traffic accidents which cause oil spill		
ŝ	20	Soil contamination	×			
Pollution	21	Noise and vibration	Δ-	potential for traffic increase.		
مّ ا	22	Land subsidence	×			
	23	Offensive odor	×			
	<u> </u>	Total Evaluation :	DA			

Table A19.8.1 IEE Matrix for Proposed Projects/Programs in Ulaanbaatar Area (21/21) - Cabo Destant/Desser Poad Improvement ...

Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (1/7) Name of the Project/Program: Govi Visitor Center (information center) at the Valley of Eagles

248		ltem	Evaluation	Remarks
	1	Resettlement	×	
-	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
100	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
Environment	4	Split of communities	?	necessity for further study
1VIC	5	Cultural property	Δ+	potential for introduction of cultural heritage
ធ	6	Water rights/Right of common	?	necessity for further study
Social	7	Public health condition	×	
δų į	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	×	
ic ni	13	Soil erosion	ك	potential for increae surface run-off by trampling.
Environment	\$2	Groundwater	×	
vire	13	Hydrological situation	Δ	potential for increae surface run-off by trampling.
ម	34	Coastal zone	×	
a	15	Flora and fauna	×	
Natural	16	Climate	×	
z	17	Landscape	Δ	potential for changes
	18	Air pollution	Δ-	potential for increase of tourist traffic
c		Water pollution	Δ-	potential for increase sewage
10	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
Ř	22	Land subsidence	×	
	23	Offensive odor	×	
		Total Evaluation :	DA	Development Inside Protected Area requires EfA.

Note:

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DA = Detailed Assessment: EIA will be required.

		Item	Evaluation	Remarks
-		Resettlement	×	
-	-	Economic activities	0+	possible skewed spread of tourist benefits to residents
Social Environment	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
	4	Split of communities	?	necessity for further study
ž	5	Cultural property	×	
<u>۳</u>	6	Water rights/Right of common	?	faccessity for further study
	7	Public health condition	?	necessity for further study
š	8	Waste	Δ-	potential for tourist litter
	9	Hazards	?	pecessity for further study
	10	Topography and geology	×	
ent		Soil erosion	Δ-	potential for increase surface run-off.
Environment	12	Groundwater	×	
iro		Hydrological situation	Δ-	potential for increase surface run-off.
ŝ		Coastal zone	×	
	15	Flora and fauna	Δ-	potential for landcover change.
Natural	16	Climate	×	
Ž	17	Landscape	Δ-	potential for landscape change.
	s	Air pollution	Δ-	potential for increase trafic.
_	19	Water pollution	Δ-	potential for increase of sewage
10	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ	potential for increase trafic.
	22	Land subsidence	×	
	23	Offensive odor	×	
		Totel Exclustion :	DA	

### Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (2/7) Name of the Project/Program: South Gobi Steppe Air Strip Improvement

### Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (3/7) Name of the Project/Program: Nature Reserve Rangers Training: Dalanzadgad

		Item	Evaluation	Remarks
	1	Resettlement	×	
	2	Economic activities	Δ+	Generation of employment opportunities
Social Environment		Traffic and public facilities	Δ+	potential for mitigation of disordered tourist traffic
u o	4	Split of communities	×	
IVIC	5	Cultural property	+	potential for preservation of cultural heritage
చ్	6	Water rights/Right of common	×	
cial	7	Public health condition	Δ+	potential decrease in lourist litter & harmful insects
ŝ	8	Waste	Δ+	potential for prevention of tourist litter
	9	Hazards	Δ+	potential decrease in tourist accidents
	10	Topography and geology	×	
cut	11	Soil erosion	×	
Environment	12	Groundwater	×	
vir.	13	Hydrological situation	×	
En	14	Coastal zone	×	
ī	15	Flore and fauna	×	
Natural	16	Climate	×	
z	17	Landscape	×	
<b>—</b>	18	Air polition	×	
<b>_</b>	19	Water pollution	×	
ŝ	20	Soil contamination	×	
Pollution	21	Noise and vibration	×	
Ă	22	Land subsidence	×	
1	23	Offensive odor	×	
		Total Evaluation :	ND	

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Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (4/7) Name of the Project/Program: Development of Servey Area and western area of Govi Gurvan Saihan National Park

Sau		National Park	Evaluation	Remarks
	1 Resettlement		X	
		and the second se		possible for economic stimulus to industries and residents
1 2		Economic activities	0+	potential increase of tourist traffic at peak season
Environment		Traffic and public facilities	Δ-	
5	4	Split of communities	?	accessity for further study
Ξ	5	Cultural property	Δ+	potential for preservation of cultural heritage
	6	Water rights/Right of common	?	necessity for further study
Social	7	Public health condition	×	
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	Δ-	potential for topographical change.
Ĕ	11	Soil crosion	Δ-	potential for increase surface run-off.
Environment	12	Groundwater	×	
l š	13	Hydrological situation	×	
ů.	14	Coastal zone	×	
2	15	Flora and fauna	Δ-	potential for increase surface run-off.
Natural	16	Climate	×	
Z	11	Landscape	Δ	potential for landscape change.
<u>}</u>	18	Air pollution	Δ-	potential for increase of tourist traffic
		Water pollution	Δ-	potential for increase of sewage
- Ē		Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
مّ ا	22	Land subsidence	×	
1	23	Offensive odor	×	
	†	Total Evaluation :	DA	Development laside Protected Area requires EtA.

# Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (5/7)

Name of the Project/Program: Dalanzadgad Airport Improvement

		ltem	Evaluation	Remarks	
1	1	Resettlement	×	necessity for further study	
	2	Economic activities	O+	possible skewed spread of tourist benefits to residents	
5		Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season	
Environment	4	Split of communities	?	necessity for further study	
vir		Cultural property	×		
ພົ	6	Water rights/Right of common	?	necessity for further study	
Social	7	Public health condition	?	necessity for further study	
Š	8	Waste	Δ-	potential for tourist litter	
	9	Hazards	?	necessity for further study	
	10	Tepography and geology	Δ-	potential for topographical change	
¢ut	<b>U</b>	Seil crosion	Δ	potential for increase surface run-off.	
80	12	Groundwater	×		
Environment	13	Hydrological situation	Δ-	potential for increase surface run-off.	
Êŋ	14	Coastal zone	×		
ral	15	Flora and fauna	Δ-	potential for land cover change.	
Natural	16	Climate	×		
z	17	Landscape	Δ-	potential for landscape change.	
		Air pollution	Δ-	potential for increase air and surface trafic.	
-	19	Water pollution	Δ	potential for increase of sewage.	
tion	20	Soil contamination	×		
Pollution	21	Noise and vibration	Δ-	potential for increase air and surface trafic.	
<u>م</u>	22	Land subsideace	×		
	23	Offensive odor	×		
<b>}</b> −−−−	1	Total Evaluation :	DA		

Note:

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+ = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required. MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

### Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (6/7) Name of the Project/Program: Development of Commuter Air Route between Dalanzadgad,

Sevrey.	and	west	ern	area
Sevrey.	жи	WEN		ana

001		, and western area	Evaluation	Remarks
1	1	Resettlement	×	
	12	Economic activities	0+	possible skewed spread of tourist benefits to residents
ucu	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
Environment		Split of communities	?	necessity for further study
vir		Cultural property	×	
ធ	6	Water rights/Right of common	?	necessity for further study
Social	7	Public health condition	?	accessity for further study
S	8	Waste	Δ-	potential for tourist litter
	9	Hazards	?	accessity for further study
	10	Topography and geology	Δ-	potential for topograph change.
Environment	11		Δ	potential for increase surface run-off.
Ē	112	Groundwater	×	
12	13	Hydrological situation	?	necessity for further study
Ē	14	Coastal zone	×	
ē	15	Flora and fauna	Δ-	potential for land cover change.
Natural	16	Climate	×	
2	17	Landscape	Δ-	potential for landscape change.
	18	Air pollution	Δ-	potential for increase of emission from aircraft and tourist traffic
6	19	Water pollution	×	
2	20		Δ	potential for oil and fuel spill.
Pollution	21	Noise and vibration	Δ-	potential for increase of emission from aircraft and tourist traffic
مّ ا	22	Land subsidence	×	
[	23	Offensive odor	×	
<b></b>	T	Total Evaluation :	DA	

# Table A19.8.2 IEE Matrix for Proposed Projects/Programs in Omnogovi Area (7/7)

Name of the Project/Program: Road Improvement (Dalanzadgad - Severy)

		Item	Evaluation	Rewarks
		Resettlement	?	Inecessity for further study
.		Economic activities	0+	possible skewed spread of tourist benefits to residents
No.		Traffic and public facilities	Δ	potential increase of tourist traffic at peak season
Lu o		Split of communities	?	necessity for further study
Social Environment		Cultural property	×	
ង		Water rights/Right of common	?	necessity for further study
la l		Public health condition	?	necessity for further study
Š	8	Waste	Δ-	potential for tourist litter
	5	Hazards	$\Delta +$	potential decrease in traffic accidents
		Topography and geology	?	necessity for further study
ũ	11	Soil erosion	Δ-	potential for increase surface run-off.
Ě		Groundwater	×	
Environment		Hydrological situation	?	necessity for further study
É	14	Coastal zoad	×	
	15	Flora and fauna	Δ-	potential for land cover change.
Natural	16	Climate	×	
Z	117	Landscape	Δ-	potential for landscape change.
	18	Air pollution	?	necessity for further study
_	19	Water pollution	×	
ti ou		Soil contamination	×	
Pollution	21	Noise and vibration	×	
8	22	Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	DA	

Note:

.

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DA = Detailed Assessment: EIA will be required.

Source: JICA Study Team

Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harborin Area (1/9) Name of the Project/Program: Excavation and Preparation of the Harhorin Ruin (Interpretative Panels)

(IIII	erp	relative Patiens)		Remarks
		Item	Evaluation	
1	1	Resettlement	?	pecessity for further study
-	2	Economic activities	Δ+	possible stewed spread of tourist benefits to residents
1 S	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
5		Split of communities	?	necessity for further study
Environment		Cultural property	0+	potential for introduction & preservation of cultural heritage
	6	Water rights/Right of common	?	accessity for further study
Social	7	Public health condition	?	pecessity for further study
Š.	8	Waste	Δ	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	Δ-	potential for changes
e j	11	Soil crosion	Δ-	potential for increase surface run-off by trampling soil.
Environment	112	Groundwater	×	
ιξ I	13	Hydrological situation	×	
ង៍	14	Coastal zone	×	
a.	15	Flora and fauna	×	
Natural	16	Climate	×	
7	17	Landscape	Δ-	potential for changes
	18	Air pollution	×	
	19	Water pollution	×	
Pollution	20	Soil contamination	×	
1	21	Noise and vibration	×	
ď	22	Land subsidence	×	
	23	Offensive odor	×	
<u> </u>	1	Total Evaluation :	MND	

### Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harborin Area (2/9)

Name of the Project/Program: Excavation and Preparation of the Ancient Sites in the Selenge

#### **Basin (Interpretative Panels)**

		liem	Evaluation	Remarks
	1	Resettlement	?	necessity for further study
	2	Economic activities	Δ+	possible skewed spread of tourist benefits to residents
hen	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
uuo	4	Split of communities	?	necessity for further study
Environment	5	Cultural property	0+	potential for introduction & preservation of cultural heritage
Ξ	6	Water rights/Right of common	?	necessity for further study
Social	7	Public health condition	×	
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Həzards	×	
	10	Topography and geology	Δ	potential for changes
Environment	11	Soil crosion	Δ	potential for increase surface run-off by trampling soil.
E	12	Groundwater	×	
2	13	Hydrological situation	×	
É.	14	Coastal zone	×	
Ē	15	Flora and fauna	×	
Natural	16	Climate	×	
z	17	Landscape	Δ	potential for changes
<u> </u>	18	Air pollution	Δ-	potential for increase of survey traffic
	19	Water pollution	×	
Pollution	20	Soil contamination	×	
Ę	23	Noise and vibration	Δ-	potential for increase of survey traffic
<u>م</u>	22	Land subsidence	×	
ł I	23	Offensive odor	×	
<b>—</b>	1	Total Evaluation :	MND	

Note: Note:  $O = Major Impact, \Delta = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required EIA.)$ + = Positive Impact, - = Negative ImpactND = Negative Declaration: No further study required.MND = Mitigative Declaration: No further study required.DA = Detailed Assessment: EIA will be required.Source: JICA Study Team

Table A19.8.3	IEE Matrix for Proposed Projects/Programs in Harhorin Area (3/9)
11 C.I D	1. 1/Dec Heckorin Visitor Contor noor Erdonezuu

		Item	Evaluation	Remarks
	1 i	Resettlement	×	
Social Environment	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
	4	Split of communities	?	necessity for further study
2	5	Cultural property	0+	potential for introduction & preservation of cultural heritage
5	6	Water rights/Right of common	?	accessity for further study
ĉ	7	Public health condition	×	
8	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	Δ	potential for changes
Environment	11	Soil crosion	Δ-	potential for increase surface run-off by trampling soil
	12	Groundwater	×	
ž	13	Hydrological situation	×	
5	14	Coastal zone	×	
a.	15	Flora and fauna	Δ-	potential for land cover change.
Natural	16	Climate	×	
4	17	Landscape	Δ-	potential for landscape change
	18	Air pollution	Δ-	potential for increase of emission from tourist traffic
c	19	Water pollution	Δ-	potential for increase of sewage
Pollution	20	Soil contamination	×	
di l	21	Noise and vibration	Δ-	potential for increase of tourist traffic
č.	22	Land subsidence	×	
	23	Offensive odor	×	
		Total Evaluation :	MND	

### Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harhorin Area (4/9)

Name of the Project/Program: Improvement of Erdenezuu Surroundings

		lica	Evaluation	Remarks
	1	Resettlement	?	necessity for further study
snt	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
Environment	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
100	4	Split of communities	?	necessity for further study
vir	5	Cultural property	Δ+	potential for introduction & preservation of cultural heritage
ы Ш	6	Water rights/Right of common	?	necessity for further study
Social	7	Public health condition	×	
ŝ	8	Waste	Δ	potential for tourist litter
	9	Hazards	Δ+	potential decrease in traffic accidents
	10	Topography and geology	×	
Environment	11	Sail erosion	Δ-	potential for increase surface run-off by trampling soil.
80	12	Groundwater	×	
viv	13	Hydrological situation	×	
5	14	Coastal zone	x	
E.	15	Flora and fauna	×	
Natura!	16	Climate	×	
z	17	Landscape	Δ-	potential for changes
	18	Air pollution	Δ	potential for increase of emission from tourist traffic
<u>۔</u>	19	Water pollution	Δ	potential for increae of sewage
2	20	Soil contamination	x	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
ě.	22	Land subsidence	×	
ļ	23	Offensive odor	×	
}		Total Evaluation :	MND	

Note:

O = Major Impact,  $\Delta$  = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required EIA.) + = Positive Impact,  $\sim$  = Negative Impact

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: ElA will be required.

_		ltem	Evaluation	Remarks
	1	Resettlement	×	
	2	Economic activities	0+	possible skewed sprezd of tourist benefits to residents
Environment	3	Traffic and public facilities	Δ-	potential traffic congestion for increase of tourist passengers at peak season
auo		Split of communities	×	
	5	Cultural property	×	
ā į	6	Water rights/Right of common	×	
	7	Public health condition	×	
8	8	Waste	Δ	potential for tourist litter
	9	Hazards	Δ+	potential decrease in traffic accidents
-†	10	Topography and geology	×	
E S	11	Soil erosion	×	
Environment	12	Groundwater	×	
ž,	13	Hydrological situation	×	
5	14	Coastal zone	×	
2	15	Flora and fauna	?	necessity for further study when designing the details.
Natural	16	Climate	×	
Z	17	Landscape	?	accessity for further study when designing the details.
	18	Air pollution	×	
c	19	Water pollution	×	
ē	20	Soil contamination	×	
Pollution	21	Noise and vibration	×	
ĭ	22	Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	MND	

Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harhorin Area (5/9) f the Project/Program: National Bird Watching Circuit Site . .

### Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harhorin Area (6/9) Name of the Project/Program: Tourist Roads in Harhorin (to Uigur Fort, to Turk monuments,

#### Other roads)

		licen	Evaluation	Remarks
	1	Resettlement	?	accessity for further study
Social Environment	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
50	4	Split of communities	?	necessity for further study
NI	5	Cultural property	×	
ធិ	6	Water rights/Right of common	?	necessity for further study
cial	7	Public health condition	?	necessity for further study
ŝ	8	Waste	Δ-	potential for tourist litter
	9	Hazards	Δ+	potential decrease in traffic accidents
	10	Topography and geology	?	necessity for further study
Ğ	11	Soil crosion	Δ-	potential for increase surface run-off.
E	12	Groundwater	×	
Environment	13	Hydrological situation	?	necessity for further study
á	34	Coastal zone	×	
a l	15	Flora and fauna	Δ	potential for land cover change.
Natural	16	Climate	×	
Z	17	Landscape	Δ-	potential for landscape change.
	18	Air pollution	Δ-	potential for increase of emission from traffic
~	19	Water pollution	×	
Ē	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ	potential for increase of traffic
ă,	22	Land subsidence	×	
	23	Offensive odor	×	
	1	Total Evaluation :	DA	

Note:

O = Major Impact,  $\Delta$  = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required EIA.) + * Positive Impact, - = Negative Impact

ND = Negative Declaration; No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

		of the ProjectProgram: O	Evaluation	Remarks
		Resettlement	?	necessity for further study
Social Environment	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
Se l	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
ş	1	Split of communities	?	necessity for further study
ž	5	Cultural property	×	
μ <u>μ</u>	6	Water rights/Right of common	?	necessity for further study
e.	1	Public health condition	?	necessity for further study
ß	8	Waste	Δ-	potential for tourist litter
	9	Hazards	×	
	10	Topography and geology	×	
5	11	Soil crosion	Δ-	potential for increase surface run-off by trampling soil.
Ę	12	Groundwater	?	accessity for further study
Environment	13	Hydrological situation	?	accessity for further study
	14	Coastal zone	×	
a.	15	Flora and fauna	?	accessity for further study
Natural	16	Climate	×	
Ι ^Ζ	17	Landscape	×	
	18	Air pollution	Δ-	potential for increase of emission from tourist traffic
	19	Water pollution	Δ-	potential for increase sewerage
1.	20	Soil contamination	×	
Pollution	21	Noise and vibration	Δ-	potential for increase of tourist traffic
<u>م</u>	22	Land subsidence	×	
	23	Offensive odor	×	
<b></b>	<b> </b>	Totel Evaluation :	MND	

### Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harhorin Area (7/9) Name of the Project/Program: Ungrading of Hujirt Sna area

### Table A19.8.3 IEE Matrix for Proposed Projects/Programs in Harhorin Area (8/9)

Name of the Project/Program: Improvement of Orkhon Falls Surroundings

<b></b>	<b>_</b>	Item	Evaluation	Remarks
	1	Resettlement	×	
Environment	2	Economic activities	0+	possible skewed spread of tourist benefits to residents
ě	3	Traffic and public facilities	Δ	potential increase of tourist traffic at peak season
ē	4	Split of communities	?	necessity for further study
12	5	Cultural property	Δ+	potential for introduction & preservation of cultural heritage
ធ	6	Water sights/Right of common	?	necessity for further study
Social	7	Public health condition	?	pecessity for further study
S.	8	Waste	Δ-	potential for tourist litter
	9	Hazards	Δ+	potential decrease in traffic accidents
	10	Topography and geology	4	potential for changes
Ĕ	11	Soil crosion	Δ-	potential for increase surface run-off by trampling soil.
Environment	12	Groundwater	×	
VIL	13	Hydrological situation	×	
ä	14	Coastal zone	×	
3	15	Flora and fauna	Δ-	potential for land cover change.
Narural	16	Climate	×	
z	17	Landscape	Δ-	potential for landscape change
<b>—</b>	18	Air pollution	Δ-	potential for increase of emission from tourist traffic
	19	Water pollution	۵	potential for increase of sewage
Pollution	20	Soil contamination	×	
1	21	Noise and vibration	Δ~	potential for increase of tourist traffic
Å	22	Land subsidence	×	
l I		Offensive odor	×	
	<u> </u>	Total Evaluation :	MND	

Note:

O = Major Impact,  $\Delta$  = Small Impact, ? = Not Clear (Further study is needed.), × = None (Not required EIA.) + = Positive Impact, - = Negative Impact

ND = Negative Declaration: No further study required.

MND = Mitigative Negative Declaration: No further study required.

DA = Detailed Assessment: EIA will be required.

Source: JICA Study Team

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		Item	Evaluation	Remarks
nvironment Social Environment	1	Resettlement	×	
onment	2	Economic sclivities	0+	possible skewed spread of tourist benefits to residents
	3	Traffic and public facilities	Δ-	potential increase of tourist traffic at peak season
100	4	Split of communities	?	necessity for further study
	5	Cultural property	×	
ŭ	6	Water rights/Right of common	?	necessity for further study
	7	Public health condition	?	necessity for further study
8 -	8	Waste	Δ-	potential for tourist litter
	9	Hazards	?	necessity for further study
Natural Environment	10	Topography and geology	?	accessity for further study
	III	Soil crosion	Δ-	potential for increase surface run-off.
	112	Groundwater	×	
	13	Hydrological situation	×	
		Coastal zone	×	
ta.	15	Flora and fauca	Δ-	potential for land cover change.
n a	16	Climate	×	
Z	17	Landscape	×	
	18	Air pollution	Δ	potential for increase air and land trafic.
-	19	Water pollution	Δ-	potential for increase sewerage.
ğ	20	Soil contamination	Δ-	potential for oit and fuel spill.
Pollution	21	Noise and vibration	Δ-	potential for increase air and land traffic.
ň.	22	Land subsidence	×	
	23	Offensive odor	×	
	<b></b>	Tetal Exaluation :	DA	

 Table A19.8.3
 IEE Matrix for Proposed Projects/Programs in Harborin Area (9/9)

 Name of the Project/Program: Upgrading of Harborin Airport

### A19.8.3 Natural Environmental Survey

#### 1) Objectives and Method

#### (1) Objectives

The supplemental survey was implemented by the local consulting firm on the natural environment concerning the three model areas of Tourism Development for the Master Plan on National Tourism Development in Mongolia. The survey was conducted from Dec. 1998 to March 1999. The site visit was conducted from 8 Jan. 99 to 22. Jan. 99.

The main objectives of the survey are:

- acquire back ground data and information on environmental laws, regulation, environmental standard
- study for evaluation of additional environmental road by future projects
- assessment of environmental impacts by tourism development

#### (2) Method

The methodology for preparing the IEE is that recommended by MNE. It is based on the methodology developed by United Nations Economic and Social Commission for Asia and Pacific.

The techniques and methodologies for assessing the impacts of development activities on the environment area:

- Checklists

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- Matrices
- Battell system

Battelle system is Environmental Evaluation System (EES) developed by Battelle Laboratory for the United States Bureau of Reclamation. In this methodology environmental resources are classified and evaluated in four general headings namely:

- Natural physical resources,
- Natural ecological resources,
- Human use or economic development resources, and
- Quality-of-life values.

### 2) Summary of Survey Results

#### Ulaanbaatar

#### (1) Background

Ulaanbaatar is situated in the center of Mongolia, in the middle of the Khenti Mountain, in the valley of the Tuul river and elevated 1300m above sea level. Present territory of Ulaanbaatar is 135800 ha, 2600 ha of it are occupied with buildings. Its population of 620,000 is a quarter of the whole population of the country. Utaanbaatar city and the Terelj area are the main tourist centers of Mongolia. The Terelj area is located in the east part of Ulaanbaatar city and connected with paved roads and power line.

### (2) Water quality of river basin Terelj

In the master plan on tourism development in Mongolia is indicated the site in the Tuul valley near Nalaih for the proposed Tourist Center. Table 1. Show the water quality of Tuul river near the bridge.

1001011111100		•••••••••••••••••••••••••••••••••••••••										بد المحمد الخدي	
Water Quality	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Νον	Dec	Ave
pH	8.1	8.3	8.6	7.4	6.8	-	7.2	-	7.1	6.8	6.9	-	7.5
COD mg/dl	1.1	0.2	6.0	3.3	2.7	-	2.3	•	5.0	3.0	2.7	-	2.9
BOD mg/dl	1.6	0.5	1.0	2.7	2.7	-	2.3	-		3.0	2.7	-	2.9
TSP mg/dl	3.9	17.0	0.6	0.8	6.6	-	•	- 1	13.2	7.2	15.4	-	8.1
Mineralization mg/d)	68.7	104	165	106	47.6	-	61.2	-	37.6	57.6	74.4	-	80.1

### Table A19.8.4 Water quality analysis done about 6 km upwards of the Tuul bridge (1998)

### (3) Air quality

The additional research for the air quality near the residential area and major road (western crossroad) indicated in the Mater plan (December, 1998). NO, content is close to permitted level of 20 minute mean levels CO and SO, levels were comparatively high on some days, but they do not exceed the permitted level. In 4 measurements the NO, content exceeds the permitted level. This research as done in winter, when air pollution is at its highest level in Ulaanbaatar City.

### (4) Noise level

The results of noise measurements beside Buyant-Uhaa airport and the major road of Ulaanbaatar City are shown in Table 2 and 3. The result indicates that the noise level

does not exceeds the permitted level except for the air plane landing period.

Survey point of Noise le	vel	Noise level (dB)
Beside Buyant-Uhaa	Usual period	59
Airport	Air-plane landing	92
		44
Main cross road		37
Yarmag road		44

oise level beside the	<b>Buyant-Uhaa</b>	airport Jan. 4, 1999
Ì	oise level beside the	oise level beside the Buyant-Uhaa

### Table A19.8.6 Noise level in Ulaanbaatar City Center (dB) Jan. 3 and 4, 1999

	Noise level (dB)				
Survey point of Noise level	Day time	Evening time			
Huvisgalchidiin main street beside the Chandmani Center	64	62			
Food-store No.1	67	63			
Hudaldaani street beside the Ministry of Finance	63	59			
Barilgachidiin squire	62	57			
Western cross-road	71	68			

The noise level exceeds the permitted noise level of Mongolia, which is 60 dB in the area of hotels, hostels, and apartment buildings. The survey was done in January, when traffic flows are comparatively less. Therefore, it is necessary to measure tin the summer season when the traffic flows are high.

### (5) Ecology

Due to the sharp increase in the seasonal tourist activity, visitors and increases in livestock numbers in the summer period for the last 5 years, the soil and vegetation covers have a tendency to change.

Soil. Due to the increasing number of parallel branch roads in this territory the mechanic destruction and degradation of land has been increasing. Soil erosion has been increasing.

Vegetation. Increasing of grazing in the summer period causes changes to the vegetation species distribution. Especially, in nearby areas of tourist camps have been predominating the sagebrush and a kind of bramble (*Chenopodium*) which indicates a tendency of decrease of the pasture vegetation biomass.

Forest. Due to traveler's carelessness forest and steppe fires occur which are the main cause of decreasing forestation in Mongolia. Also insect infestations have had advice influence.

**Permafrost.** In the case of steppe or forest fires and decreasing vegetation cover the seasonal permafrost depth of the ground could be increased by up to 1 m which may lead to an increase in lowland march and mud areas.

### Harhorin

#### (1) Background

Harhorin village in Uvusrhangai province was formed in 1929. The population of Harhorin village is 8.0 thousand with 1540 families, 145,192 livestock and 48770.0 ha of land (11378.0 ha of arable land and 32615.0 ha of pastureland)

### (2) Water quality of Orkhon river

The latest yearly result of analysis reported in Meteorological Data Fund is shown in Table A19.8.7.

18016 H12:011	114(0)			OTHIC									
Water Quality	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
pH			8.6	8.2	8.0		8.4		7.2				8.1
COD mg/dl			3.4	2.3	2.1		1.7		2.7				2.4
BOD mg/dl													
TSP mg/dl			14.0	12.2	Γ		2.8		3.6				8.2
TDS			193	137	116		140	Ī	99		·	Ì	137

Table A19.8.7 Water quality of Orkhon river in Khar Khorin sum.

### (3) Air quality

The results of the present air quality survey beside the residential area and major road are shown in Table 5.  $SO_2$  and CO level have not exceed the Mongolian standard, but NO₂ level exceeds the standard in 42% of all sampling cases. This result indicates that the air pollution may occur in winter period in case of air inversion effects.

 Table A19.8.8
 The result of air quality analysis in Khar Khorin sum (20 min mean, Jan.

 9--11.1999)
 9--11.1999

/ 11,1///		and the second	
Survey point	SO,	NO ₂	<u> </u>
Khar Balgas road and residential area	0.01-0.013	0.014-0.09	0.6-1.0
Khoshoo Tsaidam road or Food Market	0.009-0.016	0.062-0.115	0.8-1.0
Sum Center or Power plant	0.009-0.012	0.043-0.097	0.6-1.5

(4) Noise level

The result of noise level survey is shown in Table A19.8.9.

Survey point of Noise level	Noise level (dB)	
Khar Balgas road and residential area	52-59	
Khoshoo Tsaidam road or Food Market	50-52	
Soum center or Power plant	52-58	

Table A19.8.9 Noise level (dB) in Khar Khorin soum Jan. 9, 1999

(5) Ecology

Soil. Due to inappropriate agricultural activity the crop land area has decreased in fertility. For the moment data is not available to identify the impact of mechanical cultivation and chemical application to crop land and it needs detailed research and additional study.

Vegetation. Due to the nearby location of the major road and sum center the land has been degraded by overgrazing and transport movements. Increasing the use of this land

for pasture in the summer period causes changes in the vegetation species formation.

Forest. Forest and steppe fire occur which are the main causes of decreasing forests in Mongolia. Insect infestations have had as adverse effect.

Permafrost. In the case of steppe or forest fires and decreasing vegetation cover the seasonal permafrost depth of the ground could be increased by up to 1 m which may lead to an increase in lowland march and mud areas.

#### Omnogovi

(1) Background

The territory of Omnogovi is 165300 sq km with the population 45700. Many remains of primitive and new stone and bronze age tools used by ancient people and dinosaur bones and eggs are found most frequently. About 20.6 % of the territory or 3.4 million hectares of land has been given state protection: Gobi Gurvansaikhan Natural Park (1994), Gob Strictly Protected Reserve (1996).

#### (2) Ecology

Soil. The surroundings of the tourist base have been degraded by human and vehicle movements.

**Vegetation.** Increase use of this land for tourist services in the summer period forms the condition for changes to the vegetation species formation. Especially in the surroundings of the tourist base sagebrush and a kind of bramble (*Chenopodium*) have increased which indicates a decrease in vegetation cover.

Surface and ground water table. It has not been studied. Thus, in the case of the development of tourist activity in this area it is necessary to make detailed assessment.

3) The results of the environmental evaluation system (EES, Battell system).

The environmental impacts of the project "The Master Plan on Natural Tourism Development in Priority Areas of Mongolia", on each category are presented in Table 6 for both "with" and "without" the project.

During the implementation of the issues indicated in the Mater plan on tourism development in Mongolia there will be created new service centers in Ulaanbaatar, Terelj, Omnogovi and Harhorin areas and therefore increased impacts to the ecosystem (air, water quality, noise level and soil).

		Parameter	With project	Without project	Net change
Ecology	Natural conditi	Geological structure	31.25	31.25	0.00
		Biogeocenoz	17.36	27.78	-10.42
		Wildlife	24.31	31.25	-6.94
		Flora	20.83	31.25	-10.42
		Rare and endangered species	20.83	31.25	-10.42
		Rare plants	31.25	31.25	0.00
	Natural resource	Mineral resource	31.25	31.25	0.00
		Pasture	24.31	31.25	-6.94
		Water resource	24.31	31.25	-6.94
		Forest resource	24.31	31.25	-6.94
		Energy resource	3.47	3.47	0.00
	Land cover	Water change	17.36	24.31	-6.94
		Soil erosion	17.36	24.31	-6.94
		Soil nutrition	13.89	17.36	-3.47
		Soil pollution	24.31	31.25	-6.94
_		Tictonic	31.25	31.25	0.00
Physic		Forest and wildlife	31.25	31.25	0.00
o-che	Surface water	Change in river bank	31.25	31.25	0.00
Physico-chemical change		Water mud	17.36	24.31	-6.94
		BOD	6.94	31.25	-24.31
		Chemical pollution	24.31	31.25	-6.94
	Ground water	Filtration loss	27.78	27.78	0.00
		Ground water pollution	31.25	31.25	0.00
	Air	Climate change	20.83	20.83	0.00
		Air quality	17.36	24.31	•6.94

# Table A19.8.10 Application of EES methodology to the Model area tourism development project.