Japan Expressway Holding and Debt Repayment Agency (Incorporated Administrative Agency)

								http://www	.jehdra.go.j	
. Summary of operations implement	ed using F	ILP funds								
•Holding of expressway assets and the Expressway Company Limited, West	Nippon Exp	pressway Co	ompany Lii	mited, Me						
Company Limited and Honshu-Shikol	e			· · · ·	л	1.1.		11 41 1 4 1 4	1	
• Speedy and sure repayment of debts				apan Higi	iway Pu	blic (Corporations as we	Il as the ones related to	such	
operations as construction and reconst										
Supporting smooth operations relate	ed to expres	ssways by u	ne expressv	vay comp	anies					
2. Amount of lending under FY2019	FILP							(Unit: billion yen)		
FY2019 FILP		Estima	Estimated outstanding amount of FILP lending at the end of FY2018							
1,520.0					18	3,751	.4			
3. Estimated policy cost analysis of the	ne project									
(1) Policy cost		-	oillion yen)	(0		-	parison analysis uctuation from previous		(Unit: billion yen)	
Category	FY2018	FY2019	Fluctuation	┤┆┝──	1		FY2018	FY2019	Simple fluctuation	
1. Government expenditure (subsidies, etc.)	26.4	40.8	+14.4		Simple cor (before adj		1,084			
 Government revenue (payments to the government, etc.)* 	-	-	-	Policy cost	Past	·	 Adjusting initial yea (Analysis results after adju initial year to that for FY2 	sting (Analysis results of re-estimatic	Real	
3. Opportunity cost of capital investments, etc.	1,057.7	1,001.7	-56.0	Poli	compa (aft	er	analysis)	using assumed interest rate fo FY2018)	r (2-1)	
Total (1+2+3=policy cost(A))	1,084.1	1,042.5	-41.6		adjustr		1,075	5.7 1,106.	3 +30.6	
Analysis period (years)	35 years	36 years	+1 years				actor analysis]			
(years)	55 years	50 years	· i yeuis				-	elementation of new operation	ations, etc.	
(2) Breakdown of policy cost by the time of th	ne provision o	of funds (1	Unit: billion yen)		.9 billio rease in	•	,	crease in accepted capita	al	
Category	FY2018	FY2019	Fluctuation					of new operations $(+5.2 \text{ b})$		
(A) Policy cost (previously cited)	1,084.1	1,042.5	-41.6					nalysis period extension (
 Opportunity cost of capital investments, etc. provided before the beginning of the analysis period 	1,051.7	996.3	-55.4	<u>OFa</u>	ctors bel	hind <u>r</u>	policy cost decrease			
2) Policy cost expected to be newly accrued during the analysis period	32.5	46.2	+13.8	- No:	ne					
Government expenditure (subsidies, etc.)	26.4	40.8	+14.4							
Government revenue (payments to the government, etc.)*	-	-	-							
Opportunity cost of surplus, etc.	-	-	-							
Opportunity cost of capital investments, etc.	6.1	5.5	-0.6							
(5) Sensitivity analysis (cases whe	re assump	tions chan	ge)	- I				(Unit: billion yen)		
(A) Policy cost Case for raising le			<i>c</i> /							
(A) Policy cost (previously cited) and fundraising ra		Fluctuation		vernment ex _j (subsidies, e			Government revenue ents to the government, etc.)*	3. Opportunity cost of capital investments, etc.		
1,042.5 2,0	94.1	+1,0	51.7		-0.5		-	+1,052.2		
(A) Delign and Case for cutt	ing]		
(A) Policy cost (previously cited) (previously cited) (0.10%)	-	Fluctuation		vernment ex (subsidies, e			Government revenue nents to the government, etc.)*	3. Opportunity cost of capital investments, etc.		
	67.6	+4	25.1		-		-	+425.1		

(Note) Components in each column may not add up to the total because of rounding.

* Government revenue (payments to the government, etc.) is booked as a negative amount. Example: -10 b. yen for 10 b. yen in payments to government, etc.

4. Outline of estimation and project prospect employed in the analysis

Estimates in the analysis and future operations are based on agreements signed with the expressway companies.

•Operation revenues: Covering rent revenues(*) from expressway companies, etc.

* Gap between toll revenues and planned management expenses calculated by expressway companies based on traffic demand forecasts

•Agency bonds: Covering government-guaranteed and FILP agency bond amounts out of the required fundraising amount calculated in line with a projected balance sheet for each year, etc.

•Borrowings: Covering borrowings from the private sector and the FILP program as calculated in line with a projected balance sheet for each year, etc. •Debt repayment expense: Calculated based on agency-held debts (at the end of FY2018) and years for redemption of debts planned to be assumed from expressway companies in or after FY2019

										(Uni	it: billion yen)
	Result			Estimated	Decision	Assumptions for calculation				total	
FY	2014	2015	2016	2017	2018	2019	2020-2028	2029-2038	2039-2048	2049-2058	2019-2058
Operational Revenue (lending fees)	1,969.1	2,065.3	2,228.8	2,133.2	2,216.7	2,264.9	18,832.7	20,934.1	18,478.0	3,942.1	64,451.9
Agency bonds	2,415.0	1,586.0	1,156.0	1,669.0	1,430.9	740.0	10,391.0	2,410.0	-	-	13,541.1
Borrowings	60.0	35.0	-	-	1,500.0	1,008.8	5.2	58.5	-	-	1,072.6
Debt repayment expense	4,487.7	3,692.5	3,215.8	3,732.3	3,734.3	3,363.0	30,392.4	20,908.1	10,971.2	7,203.0	72,837.8
(Note) Components	s in each colu	mn may not a	dd up to the t	otal because o	of rounding.						

5. Reasons for granting of subsidies, mechanism and underlying laws

Capital investment: Required for expressway construction or reconstruction for Metropolitan Expressway Company Limited and Hanshin Expressway Company Limited

(Underlying laws and regulations)

Article 6 of the Act on Japan Expressway Holding and Debt Repayment Agency: Capital

1. The Agency's capital shall be a total of investments provided from national and local governments under provisions of Article 15, Paragraph 11 of the Enforcement Act.

2. The Agency may, if necessary, increase its capital upon obtaining the approval from the Minister of Land, Infrastructure, Transport and Tourism.

3. The national government or local governments stipulated by cabinet order may invest in the Agency within the limit specified in the budget when the Agency increases its capital under the above provision.

Subsidies: Required for development of smart interchange systems, post-disaster restoration, etc.

(Underlying laws and regulations)

Article 25 of the Act on Japan Expressway Holding and Debt Repayment Agency: Subsidies

1. The government may subsidize the Agency for the expenses necessary for the operations under the provisions of Article 12, Paragraph 1, Item 5 and 6 within the limit specified in the budget.

2. The local governments specified in Article 12, Paragraph 1, Item 7 may subsidize the Agency for the expenses necessary for the operations under the provisions of the Item within the limit specified in the budget.

The national treasury payment

(Underlying laws and regulations)

Article 31 of the Act on Japan Expressway Holding and Debt Repayment Agency: Dissolution of Agency

1. The Agency shall be dissolved no later than September 30, 2065, as specified separately by an act.

2. The Agency shall complete the repayment of the inherited debt in the road account by the day of its dissolution as provided in the previous paragraph and have residual assets equivalent to at least the capital.

3. The Agency, if dissolved, shall distribute residual assets that involve the road account to investors involved with the road account according to their respective investment amounts.

4. If the Agency has any residual assets consisting of non-road accounts after repaying debt that involves those accounts, it shall distribute the residual assets to investors involved with those accounts according to their respective investment amounts.

6. Special remarks

1) The road assets related to expressways will be opened to public at no charge after the completion of the debt redemption and restored to the national or local governments. However, the policy cost analysis does not consider their residual value.

2) The increase in assets and debts through constructions of expressways by the expressway companies will be inherited by the Agency, and the Agency will lend assets of expressways to the expressway companies, then receive the revenues from road lending fee from the expressway companies. The Agency will return the capital investment to the government by this road lending fee during the redemption period, so the opportunity cost as the capital investment during the period will be the policy cost.

3) The interest rate used in the analysis is set as a common precondition in the analysis and is not the same as the future interest rate used by the Agency and Companies in the preparation of recoupment plans.

(Reference) Outcome and social and economic benefits of operations

(Effects of expressway development)

The construction and/or improvement of expressways generates various social and economic effects, as well as direct effects for road users, including shorter traveling times. Specific effects include:

O Enhanced associations and exchanges among regions and local cities

- $\ensuremath{\bigcirc}$ Development or creation of industries
- O Increased employment opportunities
- O Increased asset value

O Reduced price of products and services

O Maintaining of alternative routes in the event of disaster

O Improvement of urban environment due to smoother transportation

Among the beneficial effects of such expressway construction and/or improvement, direct effects of the new services in and after FY2018 can be estimated as follows.

• in the case where the social discount rate is set to 4%; 9.8189 trillion yen

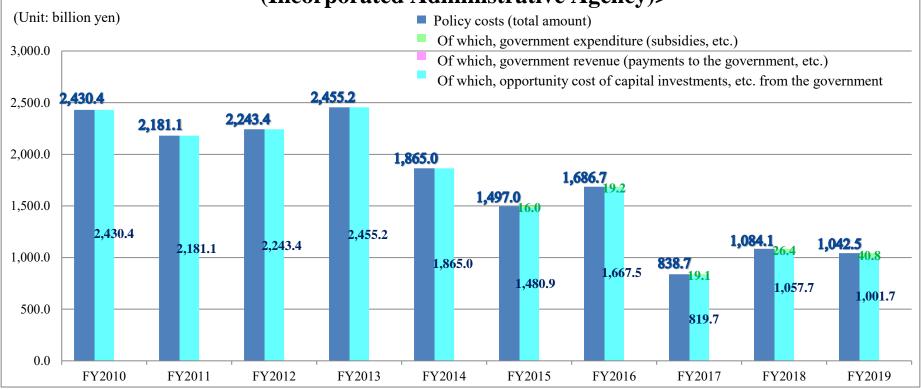
 \cdot in the case where the social discount rate is set to that of the policy cost analysis; 16.8305 trillion yen

Notes 1. The estimates on quantitative benefits were conducted by each company based on the method for benefit estimation and basic units in the "CostBenefit Analysis Manual (February 2018, Road Bureau and City Bureau, Ministry of Land, Infrastructure, Transport and Tourism)."

2. Direct effects cover benefits in and after FY2021.

(Reference) Changes in Policy Costs by Component

<Japan Expressway Holding and Debt Repayment Agency (Incorporated Administrative Agency)>



Notes 1. Policy costs for each fiscal year differ in assumptions including interest rates applied to estimates. 2. Japan Expressway Holding and Debt Repayment Agency was established in October 2005.

(Point)

•Policy cost of the Agency until FY2014 only consisted of opportunity cost of capital investments from the government, but after FY2015 analysis, the cost of subsidies was added due to the acceptance of subsidies from the government.

•In FY2019, the opportunity cost decreases on a fall in the assumed interest rate.

(Reference) Financial Statements

Item	End of FY2017	End of FY2018	End of FY2019	Item	End of FY2017	End of FY2018	End of FY2019
	(Result)	(Estimated)	(Planned)		(Result)	(Estimated)	(Planned)
(Assets)				(Liabilities and equity)			
Current assets	518,574		, , , , , , , , , , , , , , , , , , ,	Current liabilities	3,617,213		
Cash and bank deposits	119,676		2,171,000	*	2,378	4,757	
Accounts due for road assets lending fee, etc	355,910	374,888	171,368	Deposited donations	27	58	10,20
Accounts receivable	32,087	36,013	23,266	Japan Expressway Holding and Debt Repayment Agency bonds to be repaid within one year	3,163,620	2,565,565	2,582,09
Short-term loans receivable	7,608	106,688	50,201	Discount on bond (-)	-686	-372	-55
Inventory goods	3,245	3,245	3,245	Long-term loans to be repaid within a year	271,197	507,408	518,85
Other current assets	47	58	-	Accrued payments	114,994	73,136	2,25
Fixed assets	40,161,423	40,793,246	41,830,226	Accrued expenses	65,590	66,988	71,61
Tangible fixed assets	39,795,443	40,503,894	41,544,611	Other current liabilities	94	65	6
Buildings	339,194	367,463	409,048	Fixed liabilities	24,242,696	26,308,561	27,313,19
Structures	29,267,475	29,842,377	30,369,393	Asset collateral liabilities	149,397	144,647	153,28
Machinery and equipment	777,539	832,597	1,069,741	Long-term deposit of subsidies	1,669	12,901	17,75
Vehicles and transportation equipment	4	3	3	Long-term contributions received	10,796	10,686	
Tools furniture and fixtures	1,638	2,561	3,462	Japan Expressway Holding and Debt Repayment Agency bonds	22,243,051	22,896,254	22,994,48
Land	9,129,037	9,289,665	9,562,089	Discount on bond (-)	-75,008		
Construction in progress	280,554	169,228	130,875	Long-term loans payable	1,440,960	-	-
Intangible fixed assets	269,975	267,114	273,519		470,909	468,659	466,40
Leasehold interests	268,382	265,625	272,160	Long-term accrued expenses	915	3,527	6,77
Other intangible fixed assets	1,593	1,490	1,359				
Investment and other assets	96,005	22,238	12,096	Reserves for retirement pensions	7	8	
Long-term loan receivable	95,988			Reserves based on law			
Security deposit and guarantee	16	16	16	Reserve for Highway Convenience Improvement Project	603,524	577,679	551,68
Other assets	2	2	2	(Total liabilities)	28,463,433		
				Capital	5,604,988		
				Financing by the Government	4,069,232		
				Local government investment	1,535,756		
				Capital surplus	847,802		
				Capital surplus	229	-	22
				Reserves under Article 15 of the Act for Enforcement of Acts Related to Privatization of			
				the Japan Highway Public Corporation, etc.	847,573	-	-
				Retained earnings	5,763,774		
				Reserve fund	5,080,770		
				Unappropriated income for the current year	683,004		
				(Of this, gross profit)	(683,004)	· · · · · · · · · · · · · · · · · · ·	
				(Total equity)	12,216,564	12,710,439	13,197,78
Total assets	40,679,997	42,814,284	44,249,306	Total liabilities and equity	40,679,997	42,814,284	44,249,30

Note: Components may not add up to the total because of rounding

(Ordinary expenses) $=$ $=$ (Ordinary income) $=$ $=$ $=$ Ordinary expenses1,394,2101,432,2371,475,963Ordinary income2,051,0531,946,0371,917,46Operating expenses of road assets lending1,004,2411,023,600Income from the road assets lending fees2,021,5991,921,9791,904,003Management effort aid expense195454916Other income2,021,5911,921,9791,904,003General and administrative expenses1,4161,4701,271Revenues from subsidies, etc10,70410,856-Finance expenses336,044311,501296,885Income from donations6,6692,751Expenses related to acquisition of road assets51,88395,25283,890Revenues from subsidies, etc2,13322(Temporary losses431Financial revenues2,213322(Temporary losses)Miscellaneous income2,7137322(Temporary losses5739,102Temporary profits2,62,182,7,5822,5,99Loss on transfer of fixed assets507-Reveral of reserve for Highway Convenience Improvement Project2,5,5525,8452,5,99Loss on transfer of fixed assets59,09Gai on sales of fixed assets1529,42-Net profit683,004502,280467,497	Item	FY2017 (Result)	FY2018 (Estimated)	FY2019 (Planned)	Item	FY2017 (Result)	FY2018 (Estimated)	FY2019 (Planned)
Ordinary expenses 1,394,210 1,432,237 1,475,963 Ordinary income 2,051,053 1,946,037 1,917,463 Operating expenses of road assets lending 1,004,241 1,023,560 1,093,000 Income from the road assets lending fees 2,051,053 1,946,037 1,904,093 Management effort aid expense 195 454 916 Other income 4,702 4,851 4,799 General and administrative expenses 1,416 1,470 1,271 Revenues from subsidies, etc 10,704 10,856 451 4,799 Expenses related to acquisition of road assets 51,883 95,252 83,890 Reversal of asset collateral liabilities 7,312 8,154 8,033 Miscellaneous losses 431 - - Financial revenues 21 33 22 (Temporary losses) - - Temporary profits 26,218 27,582 25,990 Loss on retirement of fixed assets 0 - - Temporary profits 26,218 27,582 25,990 Loss on sale of fixed assets	(Ordinary expenses)	(Result)	(Estimated)	(1 failined)	(Ordinary income)	(Result)	(Estimated)	(Trainied)
Management effort aid expense195454916Other income4,7024,8514,792General and administrative expenses1,4161,4701,271Revenues from subsidies, etc10,70410,856Finance expenses336,044311,501296,885Income from donations6,6902751Expenses related to acquisition of road assets51,88395,25283,890Reversal of asset collateral liabilities7,3128,1548,033Miscellaneous losses431Financial revenues213322(Temporary losses)(Temporary profits)137-Loss on retirement of fixed assets0Temporary profits26,21827,58225,99Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project25,55525,84525,99Loss on transfer of fixed assetsGain on sales of fixed assets152942-Net profit683,004502,280467,497-Cher temporary profits511795-Net profit683,004502,280467,497Gross profit683,004502,280467,497		1,394,210	1,432,237	1,475,963	Ordinary income	2,051,053	1,946,037	1,917,465
General and administrative expenses $1,416$ $1,470$ $1,271$ Revenues from subsidies, etc $10,704$ $10,856$ Finance expenses $336,044$ $311,501$ $296,885$ Income from donations $6,690$ 27 511 Expenses related to acquisition of road assets $51,883$ $95,252$ $83,890$ Reversal of asset collateral liabilities $7,312$ $8,154$ $8,033$ Miscellaneous losses 431 Financial revenues 21 33 22 (Temporary losses)Temporary profits $26,218$ $27,582$ $25,994$ Loss on retirement of fixed assets0Temporary profits $26,218$ $27,582$ $25,994$ Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project $25,555$ $25,845$ $25,994$ Loss on transfer of fixed assets- $39,095$ -Gain on sales of fixed assets 152 942 -Net profit $683,004$ $502,280$ $467,497$ Gross profit $683,004$ $502,280$ $467,497$ Gross profit $683,004$ $502,280$ $467,497$ Gross profit	Operating expenses of road assets lending	1,004,241	1,023,560	1,093,000	Income from the road assets lending fees	2,021,599	1,921,979	1,904,093
Finance expenses $336,044$ $311,501$ $296,885$ Income from donations $66,690$ 27 51 Expenses related to acquisition of road assets $51,883$ $95,252$ $83,890$ Reversal of asset collateral liabilities $7,312$ $8,154$ $80,33$ Miscellaneous losses 431 Financial revenues 21 33 22 (Temporary losses)57 $39,102$ -(Temporary profits) $27,582$ $25,994$ Loss on retirement of fixed assets 0 Temporary profits $26,218$ $27,582$ $25,994$ Loss on sale of fixed assets 57 7 -Reversal of reserve for Highway Convenience Improvement Project $25,555$ $25,845$ $25,994$ Loss on transfer of fixed assets- $39,095$ -Gain on sales of fixed assets 152 942 -Net profit $683,004$ $502,280$ $467,497$ - $467,497$ 511 795 -Gross profit $683,004$ $502,280$ $467,497$	Management effort aid expense	195	454	916	Other income	4,702	4,851	4,799
Expenses related to acquisition of road assets $51,883$ $95,252$ $83,890$ Reversal of asset collateral liabilities $7,312$ $8,154$ $8,033$ Miscellaneous losses 431 21 33 22 (Temporary losses) 57 $39,102$ (Temporary profits) 27 137 -Temporary losses 57 $39,102$ Temporary profits $26,218$ $27,582$ $25,994$ Loss on retirement of fixed assets 57 7 -Reversal of reserve for Highway Convenience Improvement Project $25,555$ $25,845$ $25,994$ Loss on transfer of fixed assets 57 7 -Reversal of reserve for Highway Convenience Improvement Project $25,555$ $25,845$ $25,994$ Loss on transfer of fixed assets 57 $39,095$ -Gain on sales of fixed assets 152 942 -Net profit $683,004$ $502,280$ $467,497$ $467,497$ $467,497$ $467,497$ $467,497$	General and administrative expenses	1,416	1,470	1,271	Revenues from subsidies, etc	10,704	10,856	-
Miscellaneous losses431-Financial revenues213322(Temporary losses)5739,102-(Temporary profits)27137-Temporary losses5739,102-(Temporary profits)26,21827,58225,994Loss on retirement of fixed assets0Temporary profits26,21827,58225,994Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project25,55525,84525,994Loss on transfer of fixed assets-39,095-Gain on sales of fixed assets152942-Net profit683,004502,280467,497Gross profit683,004502,280467,497	Finance expenses	336,044	311,501	296,885	Income from donations	6,690	27	511
(Temporary losses)(Temporary losses)Miscellaneous income27137Temporary losses5739,102(Temporary profits)1Loss on retirement of fixed assets0-Temporary profits26,21827,58225,994Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project25,55525,84525,994Loss on transfer of fixed assets-39,095-Gain on sales of fixed assets152942-Net profit683,004502,280467,497Gross profit683,004502,280467,497	Expenses related to acquisition of road assets	51,883	95,252	83,890	Reversal of asset collateral liabilities	7,312	8,154	8,035
Temporary losses5739,102-(Temporary profits)-Loss on retirement of fixed assets0Temporary profits26,21827,58225,994Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project25,55525,84525,994Loss on transfer of fixed assets-39,095-Gain on sales of fixed assets152942-Net profit683,004502,280467,497-Cother temporary profits511795-Gross profit683,004502,280467,497	Miscellaneous losses	431	-	-	Financial revenues	21	33	28
Loss on retirement of fixed assets0-Temporary profits26,21827,58225,994Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project25,55525,84525,994Loss on transfer of fixed assets-39,095-Gain on sales of fixed assets152942-Net profit683,004502,280467,497-Cher temporary profits511795-Gross profit683,004502,280467,497	(Temporary losses)				Miscellaneous income	27	137	-
Loss on sale of fixed assets577-Reversal of reserve for Highway Convenience Improvement Project25,55525,84525,994Loss on transfer of fixed assets-39,095-Gain on sales of fixed assets152942-Net profit683,004502,280467,497-Other temporary profits511795-Gross profit683,004502,280467,497	Temporary losses	57	39,102	-	(Temporary profits)			
Loss on transfer of fixed assets39,095Gain on sales of fixed assets152942Other temporary profits511795Net profit683,004502,280467,497Gross profit683,004502,280467,497	Loss on retirement of fixed assets	0	-	-	Temporary profits	26,218	27,582	25,994
Net profit 683,004 502,280 467,497 Other temporary profits 511 795 - Gross profit 683,004 502,280 467,497 </td <td>Loss on sale of fixed assets</td> <td>57</td> <td>7</td> <td>-</td> <td>Reversal of reserve for Highway Convenience Improvement Project</td> <td>25,555</td> <td>25,845</td> <td>25,994</td>	Loss on sale of fixed assets	57	7	-	Reversal of reserve for Highway Convenience Improvement Project	25,555	25,845	25,994
Net profit 683,004 502,280 467,497 Gross profit 683,004 502,280 467,497	Loss on transfer of fixed assets	-	39,095	-	Gain on sales of fixed assets	152	942	-
Gross profit 683,004 502,280 467,497					Other temporary profits	511	795	-
	Net profit	683,004	502,280	467,497				
	Gross profit	683,004	502,280	467,497				
1 fotal $2,0//,2/1$ $1,9/3,619$ $1,943,460$ $1 fotal$ $2,0//,2/1$ $1,9/3,619$ $1,943,460$	Total	2,077,271	1,973,619	1,943,460	Total	2,077,271	1,973,619	1,943,460