

Stock Effects in Tokyo

～東京におけるインフラ・ストック効果～

September 2017



東京都技術会議

Tokyo Metropolitan Government Technology Council

CONTENTS

Chapter 1 Background of the Infrastructure Situation

1.1	The advent of a population decline and a graying society	1
1.2	Necessity of perspectives to maximize stock effects	1
1.3	Carrying on the legacy of infrastructure into the future	1

Chapter 2 Stock Effects

2.1	Flow effects and stock effects	2
-----	--------------------------------	---

Chapter 3 Introduction to Tokyo's Infrastructure and Stock Effects

3.1	Introduction to Tokyo's infrastructure and stock effects (by category)	
	1. Transportation and logistics	4
	2. Disaster resistance	5
	3. Environment	6
	4. Water and greenery	7
	5. Tourism and vitality	8
3.2	Introduction to Tokyo's infrastructure and stock effects (by project and facility)	
	[Road]	
	1. Construction of the Tokyo Metropolitan Expressway Central Circular Shinagawa Route	11
	2. Construction of the Chofu-Hoya Route	13
	3. Construction of the Shin-Takiyama-kaido Avenue	15
	4. Construction of the Tamagawa-nangan-doro Avenue	17
	5. Large-Scale Projects for Two-Level Crossings	19
	[River]	
	6. Development of Super Levees	21
	7. Kanda River / Ring Road No. 7 Underground Regulating Reservoir	23
	8. Esplanade Development Along the Sumida River	25
	9. Construction of Disaster Management Piers	27
	10. Nogawa River Nature Restoration Project	29
	[Erosion Control]	
	11. Volcanic Erosion and Sediment Control on Miyakejima Island	31
	[Park]	
	12. Development of Urban Parks	33
	13. Redevelopment of Ueno Park	35
	14. Marine Parks Projects	37
	[Port and Harbor]	
	15. Development of International Trade Container Terminals	39
	16. Development of Terminals for Domestic Trade Unit Loads and Ferries	41
	17. Development of Ports, Harbors, Fishing Ports, and Airports on the Tokyo Islands	43
	18. Development of Waterfront Roads	45

CONTENTS

[Coast]	
19. Development of Coastal Protection Facilities	47
[Traffic]	
20. Toei Subway	49
21. Projects to Make Toei Subway Stations Accessible	51
[Waterworks]	
22. Protection / Cultivation of Water Source Forests	53
23. Advanced Water Treatment at Purification Plants	55
24. Water Supply Stations	57
25. Development of the Water Grid	59
[Sewerage]	
26. Sewerage System Coverage in Tokyo	61
27. Seismic Retrofitting of Sewer Lines	63
28. Renewal of Sewer Lines	65
29. Improvement of Combined Sewer Systems and Advanced Wastewater Treatment	67
30. Use of land above the Shibaura Water Reclamation Center	69
31. Stream Restoration Projects	71
[Urban Development]	
32. Metropolitan Housing	73
33. Development of Built-up Areas	75
[Other]	
34. Farm Experience Programs	77

Chapter 4 Infrastructure Tour

1. Kachidoki Bridge	80
2. Inspection ship Shin-Tokyo-Maru	80
3. Kanda River / Ring Road No. 7 Underground Regulating Reservoir	81
4. Ogibashi Lock Gate	81
5. Super levee / Esplanade (Sumida River)	82
6. Hama-rikyu Gardens	83
7. TOKYO minatorie	83
8. Water Reclamation Center	83
9. Hamura Intake Weir	84
10. Ogochi Reservoir	84