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Development Objectives of Chart of Transportation (1)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
1. Capacity Development of the Transportation Sector	1-1 Strengthening of Transportation Sector Administration	1-1-1 Clarification of Authority and Responsibility as well as Capacity Development of Central Government	Establishment/Improvement of Operation and Policy of Transportation Infrastructure/Projects	Road Engineering and Administration (Tr), Road Administration with Focus on Maintenance and Management, and Safety Measures (India) (TCP)
			Establishment of Management Systems by Transportation Modes and Strengthening of Coordination among Management Body	The Study on the National Transportation Development Strategy in Vietnam (Viet Nam) (DS)
			Development of Transportation Databases	The Study on Metro Manila Urban Transportation Integration (Phases I and II) (the Philippines) (DS), National Transportation Plan (Pakistan) (DS)
			Coordination with National Development Plan	The Study on the National Transportation Development Strategy in Vietnam (Viet Nam) (DS)
			Administrative Improvement/ Privatization of Public Managed Transportation Company	Study on Privatization of Polish State Railways (Poland) (DS), Study on Tariffs and Improved Cost Recovery for Egyptian National Railways: Alternative Study (Egypt) (DS), Railway Management Planning (Tr), Shipping Administration (Tr), National Transportation Plan (Poland) (DS)
			Strengthening with Environmental Issues Capability	(also dealt with under "Pollution Control" activities) Study on Integrated Urban Transportation Strategies for Environmental Improvement in Kuala Lumpur (Malaysia) (DS), Comprehensive Urban Transportation Study in Barranquilla (Colombia) (DS)
		1-1-2 Capacity Development of Local Governments in the Progressing Decentralization	Strengthening of Management Capability of Local Governments	The Study on Rural Roads Improvement in Western Kenya (Kenya) (DS), Periodic Maintenance of Capacity Building for Regional Office (East Timor) (TCP)
			Coordination Between Urban Planning and Regional Master Plans	The Study on an Improvement Plan for Railway Transport in and around the Bangkok Metropolis in Consideration of Urban Development (Thailand) (DS)
			Establishment of Coordination Systems Between Central Government and Local Government	Master Plan Study on Long-term Management of Bulgarian Railways (Bulgaria) (DS)
		1-1-3 Promotion of Private Sector Participation in the Development of Transportation Infrastructures and Provision of Transportation Services	Promotion of Deregulation	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
	Creation of Enabling Environments for Public and Private Sector Cooperation			
	1-2 Updating of Transportation Laws and Regulations	1-2-1 Revision of Laws and Regulations regarding Provision of Transportation Services	Formulation/Improvement of a Law on Transportation Maintenance	Regulation and Type Approval System for Safety and Environmental Protection of Motor Vehicle (Tr), Seminar on Road Administration (Tr)
			Formulation/Improvement of a Law on Transportation Operation and Management	National Transportation Plan (Poland) (DS)
			Formulation of Transportation Standards (Design, Construction, Environment and Safety, etc.)	The Study on the Standardization for Integrated Railway Network of Metro Manila (the Philippines) (DS), The Study on the Standardization of Bridge Design (Malaysia) (DS)
			Establishment of Operation/Monitoring Systems for Law/Standard Enforcement	Motor Vehicle Inspection and Maintenance System (Tr), Regulation and Type Approval System for Safety and Environmental Protection of Motor Vehicle (Tr), Seminar on Road Administration (Tr)
		1-2-2 Revision of Laws and Regulations with a view to Market Economy and Decentralization	Decentralization	
			Deregulation/Privatization	Study on Privatization of Polish State Railways (Poland) (DS), The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
		Improvement of Tender/Procurement Processes	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS)	

Development Objectives of Chart of Transportation (2)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
		1-2-3 Revision of Laws and Regulations as well as Capacity Development with a view to Promoting Private Sector Participation	Establishment of a Law on Toll Roads	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
	1-3 Strengthening of Transportation Sector Financing	1-3-1 Diversification of Financial Sources of the Government	Introduction of Special Taxes for Specific Purposes/Specific Revenue Sources	The Study on the Standardization for Integrated Railway Network of Metro Manila (the Philippines) (DS)
Administrative Improvement of Public Managed Transportation company			National Transportation Plan (Poland) (DS), Study on Tariffs and Improved Cost Recovery for Egyptian National Railways: Alternative Study (Egypt) (DS), The Feasibility Study of the Proposed Cavite Busway System (the Philippines) (DS)	
Fosterage/Strengthening of Financial Organization			Study on Development of Domestic Maritime Transportation and Marine Industry (Indonesia) (DS)	
1-3-2 Appropriate Distribution of Transportation Fund to Central and Local Governments		Financial Arrangements for Local Governments		
1-3-3 Introduction of the Benefit Principle		Introduction of User Tax/Fee (Passenger Duty)	Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS), Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS)	
	1-3-4 Utilization of Private Capital		Promotion of Deregulation	Study on Pan-Philippine Highway Ferry Service Plan (the Philippines) (DS)
			Creation of Enabling Environments of framework for Promotion of Public-Private Partnership	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
			Provision of Incentive for Private Sector Participation in the Transportation Sector	Study on the Subic Bay Port Master Plan in the Republic of the Philippines (DS), Study on Urban Redevelopment Plan and Case Study in the Bangkok Metropolitan Area in the Kingdom of Thailand (DS)
			Institutional Setup for Promoting Finance to Transportation Sector both Internationally and Domestically	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
	1-4 Human Resource Development	1-4-1 Human Resource Development of the Public Sector	Establishment of Efficient Capacity Development Systems	Study on Development of Domestic Maritime Transportation and Marine Industry (Indonesia) (DS), National Transportation Plan (Poland) (DS)
			Strengthening of Capacity Development Organizations	The Urban Transportation Human Resources Development Project (Brazil) (PTC), National Center for Transportation Studies Project (the Philippines) (PTC), The Panama Nautical School Up-grading Project (Panama) (PTC), Basic Design Study on the Project for the Improvement of Transportation Technical and Professional School No. 1 (Viet Nam) (GA), The Project for Upgrading Human Resources Development for Air Navigation Systems Specialist at the Civil Aviation Training Center in Manila (the Philippines) (PTC), Port Hydraulic Research Center (Turkey) (PTC), Aftercare Technical Cooperation for the Railway Training Center Project (Thailand) (PTC), Renovation of the Road Maintenance and Construction Equipment of IFEER (Morocco) (PTC), The Project on Philippine Coast Guard Human Resource Development (the Philippines) (TCP)
			Strengthening of Evaluation/Monitoring Capability	Road Administration with Focus on Maintenance and Management, and Safety Measures (India) (TCP)

Development Objectives of Chart of Transportation (3)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
		1-4-2 Human Resource Development of the Private Sector	Enhancement of Specialist Education and Training	Technology Development for Electronic Navigational Charts (the Philippines) (PTC), The Project on Philippine Coast Guard Human Resource Development (the Philippines) (PTC), Yazd Signaling Training Center Project (Iran) (PTC), Promotion of the Ship Inspection System and Technique (the Philippines) (PTC), Project of Modernization of Perumka's Education and Training System in JABOTABEK (Indonesia) (PTC), Renovation of the Road Maintenance and Construction Equipment of IFEER (Morocco) (PTC), Project on Improvement of Maritime Education in Turkey (TCP), Study on the Utilization of Private Sector in the Road Maintenance System (Kenya) (DS), Road Administration with Focus on Maintenance and Management, and Safety Measures (India) (TCP)
			Establishment of Prior Examination Systems for Project Tenders	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS)
2. Toward Internationalization and Regionalization (International Cross-border Transportation)	2-1 Facilitation of International Movement of People and Goods	2-1-1 Development of International Transportation Network (Road/Railway/Airport/Port)	Development of International Trunk Road Networks	The Project for Construction of a Bridge over the Mekong River (Cambodia) (GA), Study on the Detailed Design of the Second Mekong International Bridge Construction Project (Laos and Thailand) (DS), Feasibility Study on the Improvement of National Road No. 1 (Phnom Penh–Neak Loeung Section) (Cambodia) (GA), Feasibility Study on the Proposed New Bridge over the Zambezi River at Chirundu Border Post (Zambia and Zimbabwe) (DS), Study on the Integrated Development Plan for the Border Region in Thailand and Lao PDR (Thailand and Laos) (DS)
			Development of International Trunk Railway Networks	Study on the Transportation Master Plan (Bosnia and Herzegovina) (DS)
			Development of International Ports	The Study on the Development Plan of Suez Bay Coastal Area (Egypt) (DS)
			Development of International Airports	Feasibility Study on New Development Plan of Hanoi International Airport (Viet Nam) (DS), Detailed Design Study on Shanghai Pu-dong International Airport (China) (DS), Development of a New International Airport for Tegucigalpa (Honduras) (GA), The Project for Improvement of Terminal Building at Palau International Airport (Palau) (GA)
			Development of Cross-border Transportation Networks and Public Transportation Networks (Bus, Railway, etc.)	Study on the Transportation Master Plan (Bosnia and Herzegovina) (DS)
			2-1-2 Standardization and Modernization of Technologies Applied to International Transportation Network	Application of International Technical Standard to the Road Sector
		Application of International Technical Standard to the Railway Sector (gauge, voltage, etc.)	The Study on the Standardization for Integrated Railway Network of Metro Manila (the Philippines) (DS)	
		Development of Digital Geographic Information	Technology Development for Electronic Navigational Charts (the Philippines) (PTC), Study on Establishing Digital Topographic Maps (Georgia) (DS)	
		Standardization of Transportation Signage	Regulation and Type Approval System for Safety and Environmental Protection of Motor Vehicle (Tr)	
		Technical Standardization of Land Transportation		
Participation in International Technical Exchange		Third Country Training Course, Road Administration with Focus on Maintenance and Management, and Safety Measures (India) (TCP)		

Development Objectives of Chart of Transportation (4)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
		2-1-3 Strengthening of Safety and Security Measures	Enhancement of Security Management at International Borders	Promotion of the Ship Inspection System and Technique (the Philippines) (PTC), The Project for Improvement of Equipment of the Kabul International Airport (Afghanistan) (GA)
		Enhancement of Maritime Security Management (Enforcement of the ISPS code, Establishment of Maritime Safety Agencies, etc.)	The Project on Philippine Coast Guard Human Resource Development (the Philippines) (PTC), Study for the Maritime Traffic Safety System Development Plan (Indonesia) (DS), Maritime Search and Rescue and Disaster Prevention Course for Policy Planners (Tr), The Project on Philippine Coast Guard Human Resource Development (the Philippines) (TCP)	
		Introduction of ICAO Standard in the Air Transportation Sector	The Study of New Communications, Navigation and Surveillance / Air Traffic Management System (the Philippines) (DS), Study on the Transportation Master Plan (Bosnia and Herzegovina) (DS), Seminar on CNS Technology (Tr)	
		Introduction of IMO Standard of Water Transportation	International Maritime Conventions and Ship Safety Inspection (Tr)	
		Development of Manuals and Training for Emergency	Project on Improvement of Maritime Education (Turkey) (TCP)	
		Quality Enhancement of Operation and Management of the Railway Sector and Port Sector	Project on Improvement of Maritime Education (Turkey) (TCP)	
		Quality Enhancement of Air Traffic Control	Project for Rehabilitation of the Approach Radar Facility in the Ninoy Aquino International Airport (the Philippines) (GA), The Project for Improvement of Existing Air Traffic Services Equipment System under the Tribhuvan International Airport Modernization Project (Nepal) (GA), The Project for Upgrading Human Resources Development for Air Navigation Systems Specialist at the Civil Aviation Training Center in Manila (the Philippines) (PTC), The Study of New Communications, Navigation and Surveillance / Air Traffic Management System (the Philippines) (DS), Master Plan Study on the Strategic Policy of the Air Transportation Sector (Indonesia) (DS)	
	2-2 Expedition of Cross-border Processing	2-2-1 Application of International Standards	Application of International Vehicle Maintenance and Vehicle Certification	Regulation and Type Approval System for Safety and Environmental Protection of Motor Vehicle (Tr)
			Standardization of Geographic Information	Study on Establishing Digital Topographic Maps (Georgia) (DS)
			Application to Open Sky Policy	
			Provision of Quality Management Standards (Quarantine Systems, etc.)	
		2-2-2 Facilitation and Expedition of Import/Export Processing	Introduction of New Air Navigation Systems	The Study of New Communications, Navigation and Surveillance / Air Traffic Management System (the Philippines) (DS)
			Introduction of EDI System to Administrative Procedures at Port, and Reduction/Elimination of Intraregional Tariff	
		2-2-3 Improvement of International Border Crossing System	Introduction of One-Stop Border Services at International Borders	Feasibility Study on the Proposed New Bridge over the Zambezi River at Chirundu Border Post (Zambia and Zimbabwe) (DS)
Development of International Logistic Network over International Border	Study on the Improvement Plan for Transshipment Facilities at Zamyn-Uud Station (Mongolia) (DS)			
		Development of Multi-Modal Transportation System	The Study on the Master Plan of Container Cargo Handling Ports, Dry Ports and Connecting Railways (Indonesia) (DS)	

Development Objectives of Chart of Transportation (5)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
3. Toward Balanced Development of a Whole Country (National Transportation)	3-1 Improvement of Road Transportation	3-1-1 Improvement and Development of Trunk Road System	Development of National Road Networks	Study on the Roads Network Development (Oman) (DS)
			Development of Major Trunk Road Networks (National Roads and Regional Roads)	Feasibility Study on the Improvement of National Road No. 1 (Phnom Penh–Neak Loeung Section) (Cambodia) (GA), Basic Design Study Report on the Project for Construction of the Second Bridge over the Mekong River (Cambodia) (GA), The Feasibility Study on the Construction of Kathmandu–Naubise Alternate Road (Nepal) (DS), Road Network Study in Central and South-East Sulawesi (Indonesia) (DS)
			Development of High Standard Trunk Road (Highway) Networks	Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
			Elimination of Missing Links	The Project for Construction of a Bridge over the Mekong River (Cambodia) (GA)
		3-1-2 Strengthening of Road Maintenance System	Road Rehabilitation and Road Maintenance	The Study on the Maintenance and Rehabilitation of Highway Bridges (Turkey) (DS), The Study on Arterial Highway Maintenance (Turkey) (DS), Road Administration with Focus on Maintenance and Management, and Safety Measures (India) (TCP), The Project for Procurement of Road Construction Machinery (Bosnia and Herzegovina) (GA)
			Establishment of Road Operation and Maintenance System	Study on the Utilization of Private Sector in the Road Maintenance System (Kenya) (DS), Road Administration with Focus on Maintenance and Management, and Safety Measures (India) (TCP)
			3-1-3 Normalization and Standardization of Roads and Road Traffic	Standardization of Road
		Standardization of Vehicles		Seminar on Road Administration (Tr), Road Engineering and Administration (Tr), Feasibility Study on Upgrading Inter-urban Highway System (Sta. Rita–San. Jose Road Section) (the Philippines) (DS), The Study on the Standardization of Bridge Design (Malaysia) (DS)
		Preparation of Road Construction Ordinance		
		3-1-4 Improvement of Road Transportation Services	Arrangement of Fair Competition Among Transportation Modes, and Provision of Safe Transportation Services	Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS)
	Rationalization and Modernization of Bus Transportation Services and Truck Transportation Services			
	3-2-1 Restoration, Improvement and Development of Railway Network		Development of High-speed Railway System	Feasibility Study on Railway Improvement Plan of Transportation Capacity and Train Speed on the Delhi–Kanpur Section (India) (DS)
			Development of Interurban Railway System	The Feasibility Studies on the Rehabilitation and Improvement of Railway in Viet Nam (Viet Nam) (DS), Project for Repairing Railways (Mongolia) (GA)
			Railway Upgrading to Double/Double-double Tracking	The Master Plan Study on the Development of Syrian Railways (Syria) (DS)
		Electrification of Railway System	Study on the Detailed Design Study of Railway Electrification and Double Tracking of Java Main Line Project (Indonesia) (DS)	
Development of Railway Communication System	Study on the Detailed Design Study of Railway Electrification and Double Tracking of Java Main Line Project (Indonesia) (DS), Master Plan Study on Modernization and Rehabilitation of the National Railways (Bolivia) (DS)			
Development/Improvement of Railway Container Terminal	Study on the Railway Yard Improvement (Thailand) (DS)			
Development/Improvement of Passenger Facilities	The Study on the Standardization for Integrated Railway Network of Metro Manila (the Philippines) (DS)			
Modernization of Rolling Stock and Other Equipments	Study on the Detailed Design Study of Railway Electrification and Double Tracking of Java Main Line Project (Indonesia) (DS)			

Development Objectives of Chart of Transportation (6)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities	
		3-2-2 Strengthening of Railway Maintenance System	Strengthening of Maintenance Technique and Capability of Railway Track, Rolling Stock and Railway System	Yazd Signaling Training Center Project (Iran) (PTC), The Feasibility Study on the Construction of Electric Locomotive Repair Workshop (Uzbekistan) (DS), The Feasibility Study on the Rehabilitation Project of the Mongolian Railway (Mongolia) (DS), The Master Plan Study on the Development of Syrian Railways (Syria) (DS)	
		3-2-3 Normalization and Standardization of Railway System	Standardization of Railway System	The Study on the Standardization for Integrated Railway Network of Metro Manila (the Philippines) (DS)	
		3-2-4 Management Improvement and Privatization	Improvement of Railway Company Management	Master Plan Study on Long-term Management of Bulgarian Railways (Bulgaria) (DS), Railway Management Planning (Tr), Study on Tariffs and Improved Cost Recovery for Egyptian National Railways: Alternative Study (Egypt) (DS)	
			Privatization of National Railway Company	Study on Privatization of Polish State Railways (Poland) (DS), Master Plan Study on Long-term Management of Bulgarian Railways (Bulgaria) (DS)	
		3-3 Improvement of Maritime Transportation	3-3-1 Restoration, Improvement and Development of Ports and Port Facilities	Development of International Container Terminal	Study on the Rehabilitation Plan and the Container Terminal Operation Plan at the Port of Cristobal (Panama) (DS)
				Development of International Cargo and Passenger Terminal (Bulk, Ro/Ro, etc.)	The Study on the Cebu Integrated Port Development Plan (Preparatory Study) (the Philippines) (DS), The Master Plan Study for the Coastal Channels and Ports Development (Thailand) (DS)
				Development of Domestic Cargo and Passenger Terminal	The Study on Long Term National Port Development Plan (Turkey) (DS)
				Development of Access Transportation Systems for Port Facilities (Roads/Railways)	Study on the Rehabilitation Plan and the Container Terminal Operation Plan at the Port of Cristobal (Panama) (DS), Regional Development Study on the Three States: Espirito Santo, Minas Gerais and Goias (Brazil) (DS), The Study on the Master Plan of Container Cargo Handling Ports, Dry Ports and Connecting Railways (Indonesia) (DS)
			3-3-2 Strengthening of Port Maintenance System	Improvement of Maintenance and Repair Technique	The Study for Maintenance and Improvement Plan of Access Channel of Beira Port (Mozambique) (DS)
	Strengthening of Management and Operation System			Study on the Effective Port Management and Operation System (Thailand) (other)	
	3-3-3 Normalization and Standardization of Port System		Enhancement of Data Computerization (e.g. EDI)	Study on Maritime Traffic Safety System Development Plan: Maritime Telecommunication Facilities; Inventory, Plant Records and Outlook (Indonesia) (DS)	
			Ratification of International Security Standard	Master Plan Study on Coastal Shipping Rehabilitation and Development Project (Viet Nam) (DS), Comprehensive Study on Shipbuilding Industry Development (Indonesia) (DS), International Maritime Conventions and Ship Safety Inspection (Tr)	
		Ratification of International Safety Standard	Master Plan Study on Coastal Shipping Rehabilitation and Development Project (Viet Nam) (DS), International Maritime Conventions and Ship Safety Inspection (Tr)		
	3-3-4 Improvement of Port Operation and Management	Enhancement of Efficient Operation (e.g. Privatization)	The Study for Port Development Strategy in the Republic of Indonesia (Indonesia) (DS)		
		Improvement of Security Measures	Master Planning and Feasibility Study on the Sihanoukville Port (Cambodia) (DS), Study on Maritime Safety Plans Concerning Search and Rescue (Indonesia) (DS)		
Institutional Setup and Improvement		Study on the Effective Port Management and Operation System (Thailand) (other)			

Development Objectives of Chart of Transportation (7)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities	
		3-3-5 Promotion of Maritime Transportation	Improvement of Safety	Education Program for Crew: The Study for Port Development Strategy in the Republic of Indonesia (Indonesia) (DS), Study on Maritime Safety Plans Concerning Search and Rescue (Indonesia) (DS) Improvement of Ship Management Technique: Master Planning and Feasibility Study on the Sihanoukville Port (Cambodia) (DS)	
		Improvement of Services	Policy of Maritime Transportation Promotion and Legal System Setup: The Study for Port Development Strategy in the Republic of Indonesia (Indonesia) (DS), Study on Maritime Safety Plans Concerning Search and Rescue (Indonesia) (DS), Study on Development of Domestic Maritime Transportation and Marine Industry (Indonesia) (DS) Development of Maritime Transportation Routes: Study on Pan-Philippine Highway Ferry Service Plan (the Philippines) (DS)		
		Improvement of Shipbuilding (incl. Repair Technique)	Improvement of Maritime Company Management: The Study for Port Development Strategy in the Republic of Indonesia (Indonesia) (DS) Master Plan Study on Coastal Shipping Rehabilitation and Development Project (Viet Nam) (DS), Comprehensive Study on Shipbuilding Industry Development (Indonesia) (DS)		
		3-4 Improvement of Air Transportation	3-4-1 Improvement/Development of Airport Facilities	Development of Airport Facilities	Study on the Development of Chittagong Airport (Bangladesh) (DS), Feasibility Study on New Alexandria International Airport Construction Project (Egypt) (DS)
				Development of Access Transportation Systems to Airport Facilities (Roads/Railways)	Study on the Development of Chittagong Airport (Bangladesh) (DS)
			3-4-2 Improvement/Development of Aeronautical Navigation Aid System	Development of Aeronautical Navigation Aid	Study on Modernization of Tribhuvan International Airport in Kathmandu (Nepal) (DS)
	Development of Air Traffic Control System			Project for Rehabilitation of the Approach Radar Facility in the Ninoy Aquino International Airport (the Philippines) (GA (facilities + equipment and materials)), The Project for Improvement of Existing Air Traffic Services Equipment System under the Tribhuvan International Airport Modernization Project (Nepal) (GA (equipment and materials))	
	Development of Air Traffic Control Airspace/Flight Route		Study on the Development of the National Air Transportation Network (Nepal) (DS)		
	3-4-3 Strengthening of Airport Facility Maintenance System	Improvement of Maintenance and Repair Technique Strengthening of Operation and Management	Seminar on Airport Engineering Policy (Tr)		
	3-4-4 Normalization and Standardization of Air Transportation System	Ratification of International Security Standard Ratification of International Safety Standard	Study on the Development of Chittagong Airport (Bangladesh) (DS), Feasibility Study on the Bali International Airport Development (Indonesia) (DS)		
	3-4-5 Improvement of Airport Operation and Management	3-4-5 Improvement of Airport Operation and Management	Improvement of Operational Efficiency	The Study on Air Transport Development (Uzbekistan) (DS), Study on the Development of a New CNS/ATM System in the Republic of the Philippines (DS), The Project for Improvement of Equipment of the Kabul International Airport (Afghanistan) (GA (equipment and materials))	
			Improvement of Security Measures		
			Institution Setup and Improvement		
	3-5 Strengthening of Intermodal Transportation as well as Improvement of Issues Common to All Modes of Transportation	3-5-1 Development and Introduction of Intermodal Transportation System	Development of Multimodal Container Transportation Network	The Study on the Master Plan of Container Cargo Handling Ports, Dry Ports and Connecting Railways (Indonesia) (DS), Study on the Integrated Development Project for Ports in the Capital City Region (the Philippines) (DS)	
			Enhancement of Logistic Terminal Capabilities	Study on the Effective Port Management and Operation System (Thailand) (DS)	
3-5-2 Facilitation of Intermodal Connection		Development of Railway System as Airport Access	Study on New Railway Line Jakarta-Cengkareng Airport (Indonesia) (DS)		

Development Objectives of Chart of Transportation (8)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
		3-5-3 Transportation Safety Measures	Development of Transportation Safety Facilities Transportation Safety Education Program	Study on Road Traffic Safety in Hanoi (Viet Nam) (Overseas Basic Study), Traffic Safety Plan for Roads (Thailand) (DS), Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS)
		3-5-4 Disaster Management	Development of Framework and System of Disaster Prevention	Study on Vulnerability Reduction for Major Roads (Nicaragua) (DS), Slope Disaster Management Study for Federal Highways (Malaysia) (DS), The Study on Road Disaster Prevention Plan (Thailand) (DS)
			Ensuring Traffic Channel for Emergency and Network Redundancy (Alternative Route)	
			Measures for Slope Protection and Rock Fall Protection	Feasibility Study on the Improvement of National Road No. 1 (Phnom Penh–Neak Loeung Section) (Cambodia) (GA)
			Enhancement of Seismic Adequacy of Roads and Bridges	The Study on the Improvement of Existing Bridges along Pasig River and Marikina River (the Philippines) (DS)
		3-5-5 Improvement and Development of Transportation Terminals to Contribute to Regional Development	Development of "Michi-no-Eki"	Study on Tourism Development in the Central Areas (Viet Nam) (Preparatory Study) (DS)
Development of Tourist Route	Study on Community-based Eco-tourism Development (Bosnia and Herzegovina) (DS)			
4. Toward Sustainable Urban Development and Improvement of Urban Life (Urban Transportation)	4-1 Improvement and Development of Urban Transportation Infrastructure	4-1-1 Traffic Capacity Increase of Arterial Roads, Intersections and Bridges under the Jurisdiction of Central Government	Development of Trunk Road Network and Bypass	The Master Plan and Feasibility Study to Alleviate Traffic Congestion and Improve Traffic Safety in the Nairobi Metropolitan Area (Kenya) (DS), Feasibility Study on Road Network Improvement for Development of Regional Growth Centers (the Philippines) (DS), Study on Upgrading Inter-Urban Highway System along the Pan-Philippine Highway (Plaridel, Cabanatuan, San Jose Bypass) (the Philippines) (DS), The Feasibility Study on Kuala Lumpur Outer Ring Road Project (Malaysia) (DS), The Transport Master Plan of the Phnom Penh Metropolitan Area (Cambodia) (DS), Feasibility Study on the Project of Highway and Bus Lane of Santa Fe de Bogota (Colombia) (DS)
			Improvement of Intersections	The Study on Improvement of Road Traffic Environment in Chiang Mai (Thailand) (DS), The Master Plan and Feasibility Study to Alleviate Traffic Congestion and Improve Traffic Safety in the Nairobi Metropolitan Area (Kenya) (DS), Study on Road Traffic Safety in Hanoi (Viet Nam) (Overseas Basic Study)
			Development of Hubs/Terminal (Airport, Port, Station, etc.)	The Master Plan and Feasibility Study to Alleviate Traffic Congestion and Improve Traffic Safety in the Nairobi Metropolitan Area (Kenya) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS)
			Enhancement of Access to Airports, Ports, Stations, etc.	Feasibility Study on Railway Improvement Plan in the Klang Valley Area (Malaysia) (DS)
			Development of Logistic Hubs in Urban Area	The Study on Greater Bangkok Truck Terminal (Thailand) (DS)
		4-1-2 Restoration and Improvement of Secondary Roads and their Maintenance System under the Jurisdiction of Local Government	Development/Improvement of Local Roads in Urban Area	Study for Public Transportation Improvement in Chengdu City (China) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS), The Transport Master Plan of the Phnom Penh Metropolitan Area (Cambodia) (DS)
		4-1-3 Promotion of Private Sector Participation in Urban Transportation through PPPs	Setup of Legal System for PPPs	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
Capacity Improvement of Implementation Agency in PPP Introduction/Operation				

Development Objectives of Chart of Transportation (9)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities	
	4-2 Improvement and Development of Urban Public Transportation Services	4-2-1 Improvement of Bus Services	Improvement of Bus Services (Bus Network, Punctuality, Fare, etc.)	Study for Public Transportation Improvement in Chengdu City (China) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS)	
			Development/Improvement of Bus Related Facilities	The Project for Rehabilitation of the Public Transportation System in Kabul City (Afghanistan) (GA), Rehabilitation of the Public Transportation Capacity in Belgrade City (Serbia and Montenegro) (GA), Basic Design Study Report on the Project for Rehabilitation of Mostar City Transportation System (Bosnia and Herzegovina) (GA), The Project for Improvement of Public Transportation in Ulan Bator (Mongolia) (GA)	
			Re-organization and Improvement of Para-transit Transportation	The Transport Master Plan of the Phnom Penh Metropolitan Area (Cambodia) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS), Urban Transportation Improvement in the City of Baku (Azerbaijan) (DS)	
			Development of Bus Priority Lane and Exclusive Bus Lane	The Feasibility Study of the Proposed Cavite Busway System (the Philippines) (DS), Feasibility Study on the Project of Highway and Bus Lane of Santa Fe de Bogota (Colombia) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS)	
			Enhancement of Feeder Transportation	The Feasibility Study of the Proposed Cavite Busway System (the Philippines) (DS), Feasibility Study on the Project of Highway and Bus Lane of Santa Fe de Bogota (Colombia) (DS), Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS)	
			4-2-2 Introduction of Rail-based Public Transportation Services including MRT and LRT	Development of Medium Capacity Transit Systems (Tram, LRT)	The Comprehensive Urban Transport Study of Bucharest City and Its Metropolitan Area (Romania) (DS), The Study on Metro Manila Urban Transportation Integration (the Philippines) (DS), Urban Transportation Improvement in the City of Baku (Azerbaijan) (DS)
	4-3 Transportation Demand Management (TDM)	4-3-1 Promotion of Modal Shift from Private Cars to Public Transportation Services	Development of Mass-transit Transportation System	Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), The Study on an Improvement Plan for Railway Transport in and around the Bangkok Metropolis in Consideration of Urban Development (Thailand) (DS), Study on Singapore Urban Transportation Improvement (Singapore) (DS)	
			Promotion of Operational Efficiency of Public Transportation company	Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS)	
			Promotion of Public Transportation Use	Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS), The Transport Master Plan of the Phnom Penh Metropolitan Area (Cambodia) (DS), The Study on Improvement of Road Traffic Environment in Chiang Mai (Thailand) (DS), The Comprehensive Urban Transport Study of Bucharest City and Its Metropolitan Area (Romania) (DS)	
			Promotion of Bicycle Usage	The Study on Improvement of Road Traffic Environment in Chiang Mai (Thailand) (DS)	
			4-3-2 Optimization of Urban Transportation Demand	Devisal of Vehicle Usage	Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS), Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS)
			Alleviation of Vehicular Transportation Demand		

Development Objectives of Chart of Transportation (10)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities	
		4-3-3 Improvement of Urban Transportation Operation and Management	Vehicular Traffic Control Improvement	Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS), Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS)	
			Vehicle Flow Control by Parking Policies	The Comprehensive Urban Transport Study of Bucharest City and Its Metropolitan Area (Romania) (DS)	
			Development/Improvement of Traffic Control Centers	Study on the Development of a Control System for Urban Transportation in Bangkok (Thailand) (DS)	
			Improvement of Intersection Traffic Flow Management System and Signal Management	Study on the Development of a Control System for Urban Transportation in Bangkok (Thailand) (DS), The Project for Improvement of Intersections in Kathmandu City (Nepal) (DS)	
	4-4 Enhancement of Transportation Safety	4-4-1 Traffic Safety Education		Introduction and Improvement of License System	Regulation and Type Approval System for Safety and Environmental Protection of Motor Vehicle (Tr)
				Introduction of Transportation Safety Education Program	Study on Road Traffic Safety in Hanoi (Viet Nam) (Overseas Basic Study), Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS)
		4-4-2 Enforcement of Traffic Safety Laws and Regulations		Provision of Transportation Safety Agency and Transportation Related Legal System	Traffic Safety Plan for Roads (Thailand) (DS), Study on Road Traffic Safety in Hanoi (Viet Nam) (Overseas Basic Study)
				Capacity Development of Enforcement Agency (Police)	TRAFFIC POLICE ADMINISTRATION (SEMINAR)
		4-4-3 Improvement of Traffic Safety Technology		Setup and Improvement of Safety Standard for Vehicle and Motorcycle	The Master Plan for Lima and Callao Metropolitan Area Urban Transportation (Peru) (DS), Motor Vehicle Inspection and Maintenance System (Tr)
				Improvement of Road Facility and Structure	The Project for Improvement of Intersections in Kathmandu City (Nepal) (GA), The Project for Improvement of Road Network in Luanda (Angola) (GA), The Study on Improvement of Road Traffic Environment in Chiang Mai (Thailand)
	4-5 Prevention/Improvement of Environmental Deterioration due to Urban Transportation	4-5-1 Exhaust Gas Emission Control		Introduction of Vehicular Inspection System	Motor Vehicle Inspection and Maintenance System (Tr)
				Improvement of Catalyst and Fuel	
		4-5-2 Improvement of Road Infrastructure and Facilities in view of Preventing Environmental Degradation		Improvement of Road Facilities and Road Structure	Traffic Safety Plan for Roads (Thailand) (DS)
			Environmental Measures for Road Development (Bypass Development, etc.)	Study on Integrated Urban Transportation Strategies for Environmental Improvement in Kuala Lumpur (Malaysia) (DS), Comprehensive Urban Transportation Study in Barranquilla (Colombia) (DS)	
4-5-3 Introduction of Policy Measures to Mitigate Urban Environmental Degradation			Enhancement of Gas Emission Control		
		Introduction of TDM	Study on Integrated Transportation Master Plan for JABOTABEK (Indonesia) (DS), The Study on Urban Transport Master Plan and Feasibility Study in HCM Metropolitan Area (HOUTRANS) (Viet Nam) (DS), The Master Plan for Lima and Callao Metropolitan Area Urban Transportation (Peru) (DS), Study on Integrated Urban Transportation Strategies for Environmental Improvement in Kuala Lumpur (Malaysia) (DS), Transportation Master Plan and Feasibility Study of Urban Transportation Projects in Greater Cairo Region (Egypt) (DS)		
5. Toward Sustainable Rural Development and Improvement of Rural Life (Rural Transportation)	5-1 Improvement of Rural Transportation Infrastructure	5-1-1 Provision of Basic Transportation Infrastructure and Services to Secure Civil Minimum	Development of Feeder Roads and Small Bridges with Appropriate Technique	The Project for Construction of Bridges along Rural Roads in Northern Luzon (the Philippines) (GA), The Project for Improvement of Portable Street Bridges for Feeder Roads (Bangladesh) (GA), The Project for Reconstruction of Bridges in the Northern District (Viet Nam) (GA), Feasibility Study on Road Network Improvement for Development of Regional Growth Centers (the Philippines) (DS)	
			Development of Local Ports	Study on the Comprehensive Ports Development Plan (Panama) (DS)	
			Development of Local Airports	The Study on Selected Airports Master Planning Project (the Philippines) (DS), The Study on Airport Development Master Plan in the Kingdom of Thailand (Thailand) (DS)	

Development Objectives of Chart of Transportation (11)

Development Objective	Mid-term Objective	Sub-targets of Mid-term Objective	Examples of Activities for Achieving Sub-targets	JICA's Major Activities
		5-1-2 Enhancement of Transportation Safety and Reliability	Implementation of Regular Checks/Maintenance	The Study on Rural Roads Improvement in Western Kenya (Kenya) (DS), Study on the Utilization of Private Sector in the Road Maintenance System (Kenya) (DS)
			Implementation of Transportation Safety Measures	Master Plan Study on the Comprehensive Urban Transportation System in the Metropolitan Area (Guatemala) (DS), Feasibility Study on the Bogor-Bandung Road Project (Indonesia) (DS)
			Post-disaster Recovery	The Project for the Urgent Rehabilitation of Sindhuli Road (Section IV) (Nepal) (GA)
	5-2 Improvement of Rural Public Transportation Services	5-2-1 Maintenance and Improvement of Public Transportation Services with a view to Satisfying Civil Minimum	Implementation of Transportation Safety Measures	Master Plan Study on the Comprehensive Urban Transportation System in the Metropolitan Area (Guatemala) (DS), Feasibility Study on the Bogor-Bandung Road Project (Indonesia) (DS)
			Development of Minimum Transportation Measures	The Development Study on Comprehensive Regional Development Plan for the Western Part of Kalimantan (Indonesia) (DS), Study on Pan-Philippine Highway Ferry Service Plan (the Philippines) (DS)
		5-2-2 Provision of Transportation Services for Better Living Standard	Provision of Equipment (Bus, Ferry and other Transportation Equipment)	The Project for Construction of the Inter-islands Navigation Vessel (Samoa) (GA), The Project for Rehabilitation of the Public Transportation System in Kabul City (Afghanistan) (GA)
			Reorganization/Rearrangement of Informal Transportation Modes	The Study on the Standardization for Integrated Railway Network of Metro Manila (the Philippines) (DS), The Feasibility Study of the Proposed Cavite Busway System (the Philippines) (DS)
			Logistics Improvements in Rural Area	The Development Study on Comprehensive Regional Development Plan for the Western Part of Kalimantan (Indonesia) (DS), Regional Development Study on the Three States: Espirito Santo, Minas Gerais and Goias (Brazil) (DS), Study on Pan-Philippine Highway Ferry Service Plan (the Philippines) (DS)
			5-2-3 Improvement of Safety and Reliability of Public Transportation Services	Introduction of Inspection System
	5-3 Enhancement of Sustainability of Rural Transportation Systems	5-3-1 Improvement of Funding Mechanisms for Rural Transportation	Establishment of Legal System and Budgetary System	The Establishment of the Public-Private Participation Technique of Metro Manila Urban Expressway Construction (the Philippines) (DS), Feasibility Study on the Construction of Expressways in the National Capital Region in India (India) (DS)
			Creation of Road Specific Funds	
			Introduction of Subsidy	
			Introduction of Benefit Principle	
		5-3-2 Supporting Private Sector and Technicians to Study Technologies Suitable for Locality	Capacity Development of Local Contractors	The Project for Improvement of Equipment for Rural Road Construction (Guatemala) (GA), The Project for Improvement of Equipment for Rural Roads (Morocco) (GA), Periodic Maintenance of Capacity Building for Regional Office (East Timor) (TCP)
	Development of Necessary Technical Manuals		Study on the Utilization of Private Sector in the Road Maintenance System (Kenya) (DS)	
5-3-3 Establishment of Road Development and Maintenance System based on Participation of Local People	Utilization of Community, NGOs, etc.	The Study on Rural Roads Improvement in Western Kenya (Kenya) (DS)		
	Establishment/Diffusion of Labor-based Technology (LBT)	Capacity Strengthening on Labor-based Technology (Tanzania) (TCP)		

The circle, triangle and blank marks in the Examples of Activities for Achieving Sub-targets column indicate the status of JICA's efforts.

- : JICA can demonstrate specific outcomes for implementation of this as an objective of cooperation activities.
- △ : Has been included as one element of JICA cooperation.
- : Unmarked: JICA has achieved very few outcomes in relation to these items.

Please note that these marks are only intended to give a rough indication of JICA's implementation outcomes, and that blank marks do not indicate that items are inadequate for inclusion in cooperation activities. Blank marks simply indicate that, since JICA has not previously implemented such items, such activities may be somewhat challenging if included in new cooperation undertakings.

DS: Development Study
 GA: Grant Aid
 PTC: Project-type Technical Cooperation Project
 TCP: Technical Cooperation Project
 Tr: Training Program