

# **APEC Database of Transportation Technology Research**

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**ASIA-PACIFIC ECONOMIC COOPERATION**

**APEC Transportation Working Group  
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**ASIA-PACIFIC ECONOMIC COOPERATION  
SECRETARIAT**

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## Preface

Diverse research efforts are being undertaken in the Asia-Pacific region aiming to establish transportation systems which are efficient, safe and environmentally friendly. It would certainly be possible to move ahead with more efficient research and to improve the current transportation systems if APEC member economies share information regarding their research, and try to avoid, as much as possible, the duplication of efforts. In order to achieve that goal, there was a need to create a database on information concerning research projects undertaken by the transportation-related research institutes of each member economy.

At the 5th meeting of the Transportation Working Group held in Auckland in 1994, Japan proposed the APEC Transport-Technology Research Database Project as the first attempt within APEC to create a database on technology. This database is composed of public research institutes in the transportation sector within this region, their contact information, information and out lines of the various projects which those institutes are implementing.

This database was compiled thanks to the generous offer of much valuable advice and a great deal of information regarding the research projects being implemented in 13 APEC member economies (Canada; Peoples Republic of China; Hong Kong, China; Indonesia; Japan; Republic of Korea; Mexico; New Zealand; Republic of the Philippines; Singapore; Chinese Taipei; Thailand; and the United States Of America).

Please refer to the following pages for information on how this database can be appropriately used. It is hoped that this database will help to promote further advancement and sharing of transportation technology in the Asia-Pacific region, and will also contribute to the creation of efficient regional transportation systems.

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## How to Use This Database

1. If you are searching for research institutions in a certain economy, Please look on the Institute List.
2. If you are searching for projects of a certain economy in general, please look on the Project Lists.
3. If you need a detailed information on a certain project, please find the page number by using Project Lists, and look on the corresponding pages.
4. To find a field number, Please look at Table 1 :

**Table 1 : Field Number**

- 1) Land Transportation
- 2) Water Transportation
- 3) Air Transportation
- 4) Shipbuilding
- 5) Port Construction
- 6) Disaster Reduction Technology
- 7) Nuclear Energy
- 8) Environmental Protection
- 9) Marine Science

## **Institute List**

INSTITUTE LIST

ECONOMIES	INSTITUTE		FIELD NUMBER(S)	PAGE
Canada	Alberta Transportation & Utilities	Research and Development Branch	1	CA-1
	Centre for Surface Transportation Technology	National Research Council of Canada	1	CA-1
	Institute for Aerospace Research	National Research Council of Canada	3	CA-1
	Institute for Marine Dynamics	National Research Council of Canada	2,4,5	CA-2
	Ministere des transports, Quebec	Laboratoire des chaussées	1	CA-2
	Ministry of Transportation of Ontario	Research and Development Branch	1	CA-2
	Ministry of Transportation of Ontario	Transportation Technology & Energy Branch	1	CA-3
	Saskatchewan Highways & Transportation	Planning and Coordination Branch	1	CA-3
	Centre d'essais et de recherches (PMG Technologies Inc.)		1	CA-3
	Transportation Association of Canada		1	CA-4
	Transport Canada	Transportation Development Centre	1,2,3,8	CA-4
	Transport Canada Aviation	Technical Services Branch	3	CA-14
Air Traffic Services Research and Experimentation Centre		3	CA-15	
P.R.China	China Academy of Railway Sciences		1	CH-1
	Civil Aviation College of China		3	CH-2
	Civil Aviation Flight College of China		3	CH-2
	No.1 Research institute of CAAC		3	CH-3
	No.2 Research institute of CAAC		3	CH-3

# INSTITUTE LIST

ECONOMIES	INSTITUTE		FIELD NUMBER(S)	PAGE
Hong Kong, China	Transport Department	Electronic Road Pricing Division	1	HK-1
		Vehicle Examination Division	1	HK-2
Indonesia	Department of Communications	Center of Data and Information	1,2,3	IN-1
		Land Communications Research and Development Centre	1,2,8	IN-1
		Sea Communications Research and Development Centre	2,4,5	IN-3
		Air Communications Research and Development Centre	3,8	IN-4
		Office of Safety Vehicle	6	IN-5
		Office of Maritime Safety Technology	6	IN-6
		Office of Aviation Facilities Technology	6,7	IN-6
	Department of Public Works	Highway Research Center	1	IN-6
	Academic Institute	Technology and Science Centre	7,8,9	IN-7
		National Air Transportation and Aerospace Institute	3	IN-7
	Bandung Institute of Technology	Aircraft Construction Laboratory	3	IN-7
	Agency for the Assessment and Application Technology	Coastal Engineering Laboratory	2,5,9	IN-8
		Construction Engineering Laboratory	5	IN-8
Bandung Institute of Technology	Environment Technology Laboratory	8	IN-8	



INSTITUTE LIST

ECONOMIES	INSTITUTE		FIELD NUMBER(S)	PAGE
Japan	Ministry of Transport	Electronic Navigation Research Institute	2,3	JP-1
		Port & Harbour Research Institute	6,8,9	JP-3
		Ship Research Institute	2,4,6,7,8,9	JP-4
		Traffic Safety and Nuisance Research Institute	1,8	JP-14
Rep. Of Korea	Korea Maritime Institute		1	KO-1
	The Korea Transport Institute			KO-3
Mexico	National University of Mexico	Engineering Institute	1,2,3,6,8	MX-1
	Mexican Transport Institute		1,2,3,8	MX-19
New Zealand	The NZ Institute for Industrial Research and Development		1	NZ-1
	Transit New Zealand		1	NZ-2
Philippines	National Center for Transport Studies		1	PH-1
Singapore	Nanyang Technology University	Centre for Transportation Studies	1,2,3	SI-1
	Centre for Transportation Research	National University of Singapore	1,2,3	SI-8
Chinese Taipei	MOTC	Office of Science & Technology Advisors	1,2,5,9	CT-1
		Institute of Harbor & Marine Technology	9	CT-19
		Institute of Transport	1,2,3	CT-20

INSTITUTE LIST

ECONOMIES	INSTITUTE		FIELD NUMBER(S)	PAGE
Thailand	Department of Highways	Road Research and Development Center		TH-2
	Port Authority of Thailand		5	TH-3
	Office of Maritime Promotion Commission	Research and Planning Division	2	TH-5
U.S.A.	Department of Transport	Assistant Secretary for Policy and International Affairs, Office of Economics		US-1
	Federal Highway Administration	Associate Administrator for Research, Development, and Technology		US-1
		Associate Administrator for Safety and System Applications		US-2
		Office of Engineering and Highway Operations Research and Development		US-2
		Office of Highway Information Management		US-3
		Office of Policy Development		US-4
		Office of Technology Applications		US-4
		Turner-Fairbank Highway Research Center		US-5
		Vanderbilt Engineering Center for Transportation Operations and Research		US-6
	Federal Railroad Administration	Association of American Railroads		US-6
		Office of Research and Development		US-6

INSTITUTE LIST

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ECONOMIES	INSTITUTE		FIELD NUMBER(S)	PAGE
U.S.A	Federal Transit Administration	Research, Training, and Rural Transportation		US-7
		Transit Research Information Center		US-7
	National Highway Traffic Safety Administration	Office of Crash Avoidance Research		US-7
	National Highway Traffic Safety Administration	Office of Regulatory Analysis		US-8
		Vehicle Research and Test Center		US-8
	Research and Special Programs Administration	Volpe National Transportation Systems Center		US-9
	Research and Special Programs Administration	Volpe National Transportation Systems Center, Office of Research and Analysis		US-9

PROJECT LIST - Field : Air Transportation -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Canada	Transport Canada	Transportation Development Centre	Dryden Commission Implementation Project, Aircraft Ground Deicing	CA-4
			APEC Satellite Navigation / Communications Project	CA-4
			Air Security	CA-5
			Air Traffic Services	CA-5
			Aviation Search and Rescue	CA-5
			Aviation Weather	CA-6
			Aviation System Safety	CA-6
			Aircraft Evacuation Model	CA-6
			Child Safety Seat	CA-7
			Human Factors	CA-7
			Transportation Accessibility for Elderly and Disabled Persons	CA-11
			Transportation Ergonomics	CA-11
	Transport Canada Aviation		Air Traffic Management and Surveillance Systems Development	CA-13
			Communication, Navigation, and Network Systems Development	CA-13
		Air Traffic Services Research and Experimentation Centre	ATC Human Factors	CA-14
			Air Traffic Control, Fast-time and real-time simulation	CA-14
			Flow Management	CA-15
Indonesia	Department of Communications	Center of Data and Information	Common Data Base	IN-1
		Air Communications Research and Development Centre	Policy of limited open sky in Rep.	IN-4
			Perfect the air transport regulation	IN-4
			Standart of airport service in Pelita	IN-4
Japan	Ministry of Transport	Electronic Navigation Research Institute	Development on GPS Overlay System	JP-1
			Improvement of the Airborne Collision Avoidance System (ACAS-III)	JP-1
			Study on Aircraft Height Monitoring Methodology for Reducing Vertical Separation Minima	JP-1

PROJECT LIST - Field : Air Transportation -

Rep. of Korea	The Korea Transport Institute		Improving Airside Operations as Kimpo International Airport	KO-12
			The Proposals for the Operational Plans of the Incheon International Airport	KO-13
			Forecasting the Air Transportation Demands for the Year 2010	KO-13
			Strategies Towards the Liberalization of the East Asian Aviation Market	KO-13

PROJECT LIST - Field : Air Transportation -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Mexico	Engineering Institute	National University of Mexico	Regional effects of the economic opening and transport demand	MX-2
			Regional impacts of the economic opening and development of the Mexican transport system	MX-2
			Experimental study of diverse type of pavement	MX-5
			Pavement of simple concrete	MX-5
			Road and airports drainage	MX-11
	Mexican Transport Institute		General transport study of the southeast region of Mexico	MX-21
			Methodology for freight transport corridors analysis	MX-23
			Transport situation of some products of Mexican foreign trade	MX-25
			Competitive increase in freight transportation	MX-26
			Transport and trade flows	Mx-27
			A methodology to study logistic services offer and transport costs	MX-27
			Trade exchange between Mexico and Canada and their transport corridors	MX-28
			Research methodology for road engineers	MX-32
Thailand			Project Evaluation	TH-1
			Study on Transport Master Plan	TH-1

PROJECT LIST - Field : Disaster Reduction Technology -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Japan	Ministry of Transport	Port & Harbour Research Institute	Research on Impact Assessment of Sea Level Rise due to Global Warming	JP-2
		Ship Research Institute	A Study Buffer Equipments for use as Protection against Ship Collision	JP-3
			Physical and Chemical Characteristics of wave Breaking in Air-Sea Interface	JP-11
			Research on Failure Prediction of Diesel Engine with Artificial Intelligence	JP-13
			Study on Performance of Ice-breaking Patrol Ship	JP-18
			Study on safety evaluation ship hull	JP-19
Chinese Taipei	Institute of Transportation	Transportation Safety Division	The Study of Intelligent Vehicle for Highway Safety Improvement (I) - Understanding the Current Development of this Technology and its Applicability	CT-5

PROJECT LIST - Field : Environmental Protection -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Indonesia	Department of Communications	Land Communications Research and Development Centre	Study of land transport standardization	IN-1
			Guideline arrangement of urban transport planning	IN-2
		Air Communications Research and Development Centre	National Aerospace	IN-3
			Cargo Air Transport	IN-3
			Security System of Air Transport	IN-3
		Borow Cross Pioneer Transport System	IN-4	
Japan	Ministry of Transport	Port & Harbour Research Institute	Research on Impact Assessment of Sea Level Rise due to Global Warming	JP-2
		Ship Research Institute	Development of a Movable Disposal System for Waste FRP Boats	JP-7
			Experimental Study on Sloshing Loads of Middle-Sized Tankers with Double Hulls	JP-8
			Maintenance System of Offshore Structure	JP-11
			Physical and Chemical Characteristics of wave Breaking in Air-Sea Interface	JP-11
			Reduction of Oil Spill from Oil Tanker	JP-12
			Research for Reduction of CO2 Emission out of Power Plants	JP-12
			Research on Exhaust Emissions from Marine Diesel Engines	JP-12
			Research on Hydrogen Gas Turbine	JP-14
			Research on Multi-Dimensional Measurement using Laser Interferometry for Combustion Diagnostics	JP-14
			Research on Performance of a Stack of Solid Oxide Fuel Cells	JP-14
			Research on Quantification of Combustion and Exhaust Emissions from Marine Diesel Engines	JP-15
			Study on Reduction of Exhaust Gas Emissions from Marine Diesel Engine	JP-18
			Study on a Research Vessel in Ice Covered Sea	JP-19
Study on safety evaluation ship hull	JP-19			



PROJECT LIST - Field : Environmental Protection -

		Traffic Safety and Nuisance Research Institute	New Technologies control NOx Emission from Diesel Engines and their Applicability under Driving Conditions	JP-22
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PROJECT LIST - Field : Environmental Protection -

<b>ECONOMIES</b>	<b>INSTITUTE</b>		<b>KEY PROJECT</b>	<b>PAGE</b>
Mexico	Engineering Institute	National University of Mexico	Environmental and energy diagnosis in the institute of engineering	MX-1
	Mexican Transport Institute		Studies related with the saving of energy in the transport sector	MX-32
Chinese Taipei	Institute of Harbor & Marine Technology	Harbor Engineering Material Division	A Study on Corrosion Mechanism and Prevention of Harbor Structure	CT-2

PROJECT LIST - Field : Land Transportation -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Canada	Transport Canada	Transportation Development Centre	Dangerous Goods R&D Program	CA-7
			Railway Research Program	CA-8
			Railway Safety	CA-9
			Research and development program to improve the accessibility, energy efficiency and environmental friendliness of urban transit buses	CA-9
			Electric Vehicle Research Program	CA-10
			Research program on the application of electronics, communications and computer technologies to road transportation (IVHS)	CA-10
			Research program on the safety of heavy road freight vehicles	CA-10
			Road transportation research and development program	CA-11
P.R.China	China Academy of Railway Sciences		Transportation Ergonomics	CA-11
			Research on technical approaches for Beijing-Shanghai high speed (250km/h) railway line	CH-1
			Research on technical approaches for application of 25t axleload for freight train operation in China	CH-1
Indonesia	Department of Communications	Center of Data and Information	Common Data Base	IN-1
			Land Communications Research and Development Center	IN-1
		Study of land transport standardization Guideline arrangement of urban transport planning Criteria of Service Determination of ferry and sea line	IN-1	
Japan	Ministry of Transport	Traffic Safety and Nuisance Research Institute	New Technologies control NOx Emission from Diesel Engines and their Applicability under Driving Congitions	JP-22
Rep. of Korea	Korea Maritime Institute		Establishment of Railroad Logistics Services System	KO-1
	The Korea Transport Institute		A feasibility study of the air cargo city terminal in Seoul Metropolitan Area	KO-3

PROJECT LIST - Field : Land Transportation -

			Developing the GIS-T and its Applications for Urban Transport	KO-3
			Estimation of the Special Travel Demand on National Holidays	KO-4
			A Study on Pusan's Transit Fare Structure	KO-4
			A Study on How to Utilize Electronic Technology for the Enhancement of the Transportation System	KO-4

<b>ECONOMIES</b>	<b>INSTITUTE</b>	<b>KEY PROJECT</b>	<b>PAGE</b>
Rep. of Korea	The Korea Transport Institute	A Study on the Construction and Operation of the Information Center	KO-5
		A Study on the Feeder Network for the Seoul-Pusan High Speed Rail Line	KO-5
		A Study on the Interchange Spacing and Management for Improving the Functional Efficiency of Highway	KO-5
		A Feasibility Study and Basic Plan for the Construction and Operation of the Light-rail Transit in the Pusan Metropolitan Area	KO-6
		A Feasibility Study and Basic Plan for the Extension of Subway lines No.1,2 in the Daegu Metropolitan Area	KO-6
		A Feasibility Study and Basic Plan on the Construction and Operation of Light Rail Transit between Kimhae and Jangyoo	KO-6
		A Basic Plan to Construct and Operate the Bicycle Road System in Kimhae City	KO-7
		A Feasibility Study and Basic Plan for the Construction and Operation of Light Rail Transit in Youngin City	KO-7
		A Study of the Transport Investment Appraisal Methods	KO-7
		An Analysis of the Traffic Impact Assessment Report for 1995	KO-8
		A Study for the Establishment of Coordinated Road Freight Transport System	KO-8
		Strategic Issues of the Urban Freight Movement for Seoul Metropolitan Area	KO-8
		A Study on How to Improve the Passenger and Freight Fare System	KO-9

PROJECT LIST - Field : Land Transportation -

			A Study on How to Improve the Interchange Facilities and Toll Collection System of the Seoul Beltway	KO-9
			A Strategy Planning Study of the Ho-Nam High Speed Rail Construction	KO-9
			A Survey of the Urban Traveler Patterns in the Seoul Metropolitan Area	KO-10
			A Study for the Establishment of Coordinated Road Freight Transport System	KO-10
			The First Nationwide Logistics Survey in Korea	KO-10

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Rep. of Korea	The Korea Transport Institute		A Study on the Transport Service and Market Mechanism	KO-11
			Establishment of the Comprehensive Transportation DB (1)	KO-11
			Infrastructure Development and Private Investment Conditions in Korea	KO-11
			Standard Guidelines on the Economic Feasibility Study for Urban Railway Projects	KO-12
			Strategies to Promote Incheon International Airport as a Regional Hub in Northeast Asia	KO-12
Mexico	Engineering Institute	National University of Mexico	Highway projects appraisal	MX-1
			Logistics and accessibility to shopping centers in the metropolitan area of Mexico City	MX-2
			Regional effects of the economic opening and transport demand	MX-2
			Regional impacts of the economic opening and development of the Mexican transport system	MX-2
			Scenarios for logistic platforms supports in metropolitan areas	MX-2
			Strategic planning of distribution and collection routes with capacity restrictions	MX-3
			Structural design of asphalt pavements	MX-3

PROJECT LIST - Field : Land Transportation -

Transport systems and metropolitan territorial structures: distribution centers and cooperative logistics of enterprises in the central region	MX-3
Properties deterioration of the concrete subject to cycles of compression loa	MX-4
Behavior of cohesive compacted soils	MX-4
Probabilistic analysis of the seismic answer of structures on several supports in soft soils	MX-5
Pavement of simple concrete	MX-5
Efforts analysis of the Tlautla bridge under the action of gravitational loads	MX-6
Redistribution of flexionant moments and reaction in hyperstatic structures of reinforced concrete	MX-6
Effect of the wind inflexible bridge	MX-6
Rigid-plastic plate subjected to a moving load	MX-7
Filtration forces and hydraulic breaking	MX-7
Effect of the flow of water in tunnells contour	MX-7
Displacement and efforts in a elastoplastic semi-infinit mean upon digging a circular tunnel	MX-8
Rock pressures in tunnels and interaction rock-coating	MX-8
The concept of preconsolidation of soils	MX-8
Optimum design in treatment of soft soils with vertical drainage of sand	MX-9
Compaction of clayish soils	MX-9
Dynamic behavior of not cohesive embankment models	MX-9
Compact conditions,states variables and engineering properties of compacted clay	MX-10
Soil-suructure interaction for footing foundations	MX-10
Roads and airports drainage	MX-11
Hydraulic model study of the crossing of Mexico-Qeretaro highway with Tepeji river	MX-11

PROJECT LIST - Field : Land Transportation -

		Erosion in concrete caused by high speed flow	MX-12
		A contribution to the study of the local undermining in bridge piles	MX-12
		Valuation of maximum entropy in urban transport models	MX-13
		Use of models in planning transport infrastructure	MX-13
		Infrastructure works like factor for the rural development	MX-13
		Social indirect cost of road investment	MX-14
		Optimum of the social direct cost in work concepts for rural road	MX-14
		Atmospheric contamination and their relationship with the vehicles flow in Mexico city	MX-14
		System for drop emission in automobiles by means a continuous converter of pair of mechanical type	MX-15
		Instructive for structural design of flexible pavements for highways	MX-15
		Operation of vehicles in slopes	MX-16
		Vehicles sampling with dynamic weighers	MX-16
		Highway structural design with flexible pavement	MX-16
		Project of geometric specification for low cost roads	MX-17
		Full scale testing applied to pavement design	MX-17
		Recomendations for the structural design of flexible pavement	MX-18
	Mexican Transport Institute	Analysis of the loads circulating in the road and rail networks in order to select the optimal mode for each type of load.	MX-19
		Connectivity analysis of the main maritime and border ports in order to improve their integration to the road and rail networks	MX-19
		Development of a computer software to calculate maintenance actions of different intensity and time horizon	MX-20
		Dynamic analysis of bridges	MX-20

PROJECT LIST - Field : Land Transportation -

			Effect of the slope and curvature in the operational costs and velocity of the main truck types, circulating in the Mexican road network	MX-20
			Field Studies to determine weight, dimensions and average value of the load of the vehicles circulating in the Mexican road network	MX-21



PROJECT LIST - Field : Land Transportation -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
			Road-vehicle interaction	MX-21
			National strategy for highway maintenance	MX-22
			Pavement management system	MX-22
			Vehicle cycle analysis	MX-23
			Analysis of three groups of methods for the study of intra and interregional flowsbalance from the freight and passengers circulation perspective's	MX-23
			Methodology for freight transport corridors analysis	MX-23
			Road design factors and vehicle operating costs	MX-24
			Freight transport integration as an element of the industry and nations competitiveness	MX-24
			Surface conditions and vehicle operating costs inroad	mx-24
			Transport situation of some products of Mexican foreign trade	MX-24
			Competitivity of the Mexican interstate common motor carriers from the NAFTA perspective	MX-24
			Recent evolutionand trends of interstate common carriers in U.S.A	MX-25
			Economical evaluation of govern gradient in roads	MX-26
			Economic module of Mexican Pavement Management System	MX-26
			Competitive increases in freight transportation	MX-26
			Freigh transportation fro cartel to competition	MX-27
			Transport and trade flows	MX-27
			A methodology to study logistic services offer and transport cost	MX-27
			Trade exchange between Mexico and Canada and their transport corridors	MX-28
			Structural effects of economic opening in freight motorcarrierindustry	MX-28

PROJECT LIST - Field : Land Transportation -

			Analyses of the unit damages coefficients corresponding to the Mexican highway network	MX-28
			Methodology for the analysis of freight transport corridors	MX-29
			Estimation of the traffic demand in roads combining origin-destiny studies with traffic counting actions	MX-29
			GIS and transport	MX-29
			Strategies to conduct origin-destiny studies	MX-30
			Four contributions for the quantitative appraisal of transport activities	MX-30
			The integration of the optimal design and manufacture on cam mechanisms	MX-30
			Energy diagnostics in the transport sector	MX-31
			Comparative measurement of emission and fuel consumption for change of type of gasoline on vehicles without catalytic converters	MX-31
			Antipolluting devices for internal combustion engine	MX-31
			Research methodology for road engineers	MX-32
			Mathematical Models for trip distribution	MX-32
			Development of design guidelines for climbing lanes on two-lane roads	MX-33
			Quarter car dynamic response and international road roughness index	MX-33
			SIMAQ	MX-33
			Diesel engine based vehicles	MX-34
			Four studies in materials with applications in the transport industry	MX-34
			Identification and behavior of residual solids for use in highway engineering	MX-35
			Bridges management system	MX-35
New Zealand	The New Zealand Institute for Industrial Research and Development		Development of cost effective method of assessing vehicle suspensions for "road friendliness", or road wear	NZ-1

PROJECT LIST - Field : Land Transportation -

			Interaction between road geometry, heavy vehicle performance (stability, manoeuvrability, tractive effort etc.) and driver behaviour	NZ-1
			Relationship between dynamic wheel forces and pavement life	NZ-2
Philippines	National Center for Transport Studies		Analysis of Goods Movement in Metro Manila	PH-1
			Analysis of Road Traffic Accidents in the City of Manila	PH-1
			Analyzing Transfer Disutilities in Disaggregate Mode Choice Models for Work Trips Using Revealed and Stated Preference Data	PH-1
			Cost Characteristics of Jeepney and Bus Modes in Metro Manila	PH-2
			Development of a Planning and Design Criteria for Jeepney Stop Facilities: Concepts and Single Lane Simulation	PH-2
			Discrete Choice Models on Locational Choices of Firms in Industrial Estates: The Case of CALABARZON in the Philippines	PH-2
			Effects of Fly-Over Construction on Traffic Flow: The Case of Metropolitan Manila	PH-3
			Effects of Opening Exclusive Residential Subdivision	PH-3
			Expressway Capacity Analysis	PH-3
			Re-Evaluation of Signal Parameters in Metro Manila	PH-3
Singapore	Nanyang Technology University	Centre for Transportation Studies	Driver Behaviour in the Central Expressway Tunnels	SI-1
			Slag Utilization for Road Premix	SI-1
			Car Ownership, Traffic Congestion and Road Pricing	SI-2
			Analysis of Travel Behaviour in Singapore	SI-2

PROJECT LIST - Field : Land Transportation -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Singapore	Nanyang Technology University	Centre for Transportation Studies	Study of Transport Services in Jurong Industrial Estate	SI-2
			An Experimental Study to Improve the Skid Resistance at Road Markings	SI-3
			Deviation Bollards and Yellow Band at Bus Stops	SI-3
			Effectiveness of Speed-Radar Camera in Reducing High-Speed Travel	SI-3
			The Effects of Traffic, Geometrics and Operational Characteristics of Signalised Junctions on Red-Light Violation Rates	SI-4
			Trip and Parking Rates for Major Land Uses in Singapore	SI-4
	National University of Singapore	Centre for Transportation Research	Home Interview Survey (1996) on Travel Behaviour	SI-4
			Nondestructive Evaluation of Pavements	SI-5
			Pavement Management Systems for Roads	SI-5
			Analysis of Traffic Speed	SI-6
			Asphalt Road Drainage	SI-6
			Incident Detection Technologies	SI-6
			IT Applications in Highway Management	SI-7
Chinese Taipei	Institute of Transportation	Division of Interdisciplinary Research	Research and Development of Intelligent Vehicle and Transportation Technologies in Taiwan	CT-4
	Office of Science & Technology Advisors		Evaluation and Planning for Development of Advanced Technology on Transportation Engineering	CT-6
			GPS/VNS/GIS Integrated System with the Application to Intelligent Vehicle Highway System	CT-7
			Incorporating Telecommunication Technologies to Improve Transportation System Performance - A Feasibility Study of Telecommunicating	CT-8
			Influence of Geological Barriers on Tunneling	CT-8
			Intelligent Vehicle Highway System	CT-9

PROJECT LIST - Field : Land Transportation -

			Study on an Optoelectronic Sensing Instrument of Freeway Vehicle Flow	CT-9
			Study on Relationship between Communications Technology and Transportation Development	CT-10

<b>ECONOMIES</b>	<b>INSTITUTE</b>		<b>KEY PROJECT</b>	<b>PAGE</b>
Chinese Taipei	Office of Science & Technology Advisors		The Integrated Technologies of GIS for Transportation Applications	CT-10
			Use of Telecommunication Technology for Highway Transport	CT-11
Thailand	Department of Highways	Road Research and Development Center	Project Evaluation	TH-1
			Study on Transport Master Plan	TH-1
			Techniques to improve soft clay foundation	TH-2
			Road design and construction techniques on soft foundation	TH-2
			Pilot project on evaluation of road conditions by using FWD	TH-3
			Pilot Study to develop performance-based specifications for paving materials	TH-3

PROJECT LIST - Field : Marine Science -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Japan	Ministry of Transport	Port & Harbour Research Institute	Research on Impact Assessment of Sea Level Rise due to Global Warming	JP-2
		Ship Research Institute	At-sea Experiment of Floating Offshore Structure - POSEIDON Project	JP-4
			Development of Huge Floating Offshore Structure	JP-6
			Development on Active Controlled Floating Structure	JP-7
			Fundamental Technology Concerning with construction of Huge-scale Floating Structure	JP-9
			Maintenance System of Offshore Structure	JP-11
			Physical and Chemical Characteristics of wave Breaking in Air-Sea Interface	JP-11
			Study on Ice Forces on a Structure in Ice Covered Sea	JP-17
			Study on a Research Vessel in Ice Covered Sea	JP-19
			Mexico	Engineering Institute
Chinese Taipei	Institute of Harbor & Marine Technology	Coastal Engineering Division	A Study of the Long Wave off Hwaiien and Su-Ao	CT-1
			Study of Characteristics for the Sea and Air around Taiwan	CT-1
		Harbor Engineering Division	A Study on Corrosion Mechanism and Prevention of Harbor Structure	CT-2
		Mathematical Modelling Division	Computations and Visualizations of Wave and Nearshore Current in the Coast Zone	CT-3
	Institute of Harbor & Maritime Technology, Soil Mechanics Laboratory	Geotechnical Division	Research on the Dynamic Properties of Soil and Ground Improvement Method for the Coastal Regions in Taiwan	CT-3

PROJECT LIST - Field : Nuclear Energy -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Japan	Ministry of Transport	Ship Research Institute	Advanced Man-Machine Interface Techniques for Autonomous Power Plant	JP-3
			Advanced Nuclear Plant Operation Based on Perception and Senses as Human Group	JP-4
			Development and Application of a Reliability Analysis Methodology "GO-FLOW" for Nuclear Power Plant System	JP-5
			Optimization of Neutron Shielding Structures for Ceramics Shields	JP-11
			Radiation Safety with Transport of Low Level Radioactive Materials	JP-12

PROJECT LIST - Field : Port Construction -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Indonesia	Department of Communications	Sea Communications Research and Development Centre	Patterns of container transport to make efficient container port develop.	IN-2
			Study of shipping deregulation impact forward national export,value,balance	IN-3
			Standardization of means/infrastructure of sea transport	IN-3
Japan	Ministry of Transport	Ship Research Institute	Development of Testing Technology of Ice Model Basin	JP-6
Rep. of Korea	Korea Maritime Institute		Construction and Operation Plan of Kyung In Canal	KO-1
			Establishment of Port Logistics Services System	KO-1
			Investment Priority for New Ports Development	KO-2
			A Proposal for Private Investments in Gadok Container Terminal	KO-2
Mexico	Engineering Institute	National University of Mexico	Bibliography about maves movement produced by seisms	MX-15
	Mexican Tansport Institute		Design of a spreader for empty containers	MX-34
			Guide for specification of technical characteristics of port gantry cranes	MX-35
Chinese Taipei	Office of Science & Technology Advisors		Hydrauc Model Tests on Littoral Drift Management and Land Reclamation of Taichung Harbor	CT-7
Thailand			Project Evaluation	TH-1
			Study on Transport Master Plan	TH-1
			Study on the Policy for Port and ICD Roles and Location	TH-1
	Port Authority of Thailand		The Study on Modernization of Bangkok Port in the Kingdom of Thailand	TH-4
			The Development of Laem Chabang Port Phase I	TH-4
			The Development of Laem Chabang Port Phase II	TH-5



PROJECT LIST - Field : Shipbuilding -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Indonesia	Department of Communications	Sea Communications Research and Development Center	Pattern of container transport to make efficient container port develop.	IN-2
			Study of shipping deregulation impact forward national export,value balance	IN-3
			Standardizatin of means/infrastructure of sea transport	IN-3
Japan	Ministry of Transport	Ship Research Institute	At-sea Experiment of Floating Offshore Structure - POSEIDON Project	JP-4
			Capsizing of a ship in quartering waves	JP-4
			Chaos and Fractals in Ship Capsizing	JP-5
			Corrosion Fatigue and Stress Corrosion Cracking of High Tensile Steel for Ship Hull in Seawater and Crude Oil	JP-5
			Development of Huge Floating Offshore Structure	JP-6
			Development of Testing Technology of Ice Model Basin	JP-6
			Development of a Movable Disposal System for Waste FRP Boats	JP-7
			Development on Active Controlled Floating Structure	JP-7
			Evaluation of structural safety of a novel type high-speed vessel	JP-8
			Experimental Study on Sloshing Loads of Middle-Sized Tankers with Double Hulls	JP-8
			Fundamental Technology Concerning with construction of Huge-scale Floating Structure	JP-9
			Hydrodynamic Analysis of Marine Propellers for Ice breakers	JP-9
			Impact Fracture Properties of Ship Basic Element	JP-9
			Impact Strength of Ferro-Cement Boat	JP-10
			Impact Strength of Fiber Reinforced Plastic Laminates for Ship Hull	JP-10
			Investigation of a capsizing accident of a large stern trawler	JP-10
Physical and Chemical Characteristics of wave Breaking in Air-Sea Interface	JP-11			

PROJECT LIST - Field : Shipbuilding -

			Research on Strength of Heat Affected Materials and Structures	JP-15
			Research on quantitative and intelligent nondestructive evaluation for materials and structures of high reliability	JP-16

ECONOMIES	INSTITUTE	KEY PROJECT	PAGE	
Japan	Ministry of Transport	Ship Research Institute	Research on the flow field around a ship in maneuvering motion	JP-16
			Research on the manoeuvring motion of a ship in waves	JP-16
			Study on Electromagnetic	JP-17
			Study on Performance of Ice-breaking Patrol Ship	JP-18
			Study on Protection against Impact Force on Life-saving Appliances for ship	JP-18
			Study on Reduction of Exhaust Gas Emissions from Marine Diesel Engine	JP-18
			Study on Technology for Designs of Marine Articles by FEM Analysis	JP-19
			Study on a Research Vessel in Ice Covered Sea	JP-19
			Study on safety evaluation ship hull	JP-19
			Study on safety factor for design of FRP boat	JP-20
			Study on safety marine FRP in low temperature region	JP-20
			Surf-riding of a Ship	JP-20
			Tribology of oxide ceramics at elevated temperatures	JP-21
Mexico	Mexican Transport Institute		Compendium of standars for the equipment of merchant vessels	MX-32
Thailand			Project Evaluation	TH-1
			Study on Transport Master Plan	TH-1

PROJECT LIST - Field : Water Transportation -

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Canada	Transport Canada	Transportation Development Centre	APEC Satellite Navigation / Communications Project	CA-4
			Inshore Navigation	CA-8
			Marine Operations / Environmental Protection	CA-8
			Regulatory Support for Open Waters and Ice-Infested Waters	CA-9
			Transportation Accessibility for Elderly and Disabled Persons	CA-11
			Transportation Ergonomics	CA-11
			Search and Rescue	CA-12
			Vessel Traffic Services	CA-12
Indonesia	Department of Communications	Center of Data and Information	Common Data Base	IN-1
		Land Communications Research and Development Center	Study of land transport standardization Guideline arrangement of urban transport planning Criteria of Service Determination of ferry and sea line	IN-1
		Sea Communications Research and Development Center	Pattern of container transport to make efficient container port develop.	IN-2
			Study of shipping deregulation impact foward national export,value balance	IN-2
			Standardization of means/infrastructure of sea transport	IN-2
Japan	Ministry of Transport	Ship Research Institute	A Study Buffer Equipments for use as Protection against Ship Collision	JP-3
			Capsizing of a ship in quartering waves	JP-4
			Chaos and Fractals in Ship Capsizing	JP-5
			Development of Onboard Collision Avoidance System	JP-6
			Development of Testing Technology of Ice Model Basin	JP-6
			Evaluation of Performance and Safety of Wing-in-Surface Effect Ship (WISES)	JP-7
			Foghorn-Signal Processing for Distance Measurement	JP-8
			Hydrodynamic Analysis of Marine Propellers for Ice breakers	JP-9
			Investigation of a capsizing accident of a large stern trawler	JP-10

PROJECT LIST - Field : Water Transportation -

		Research on Exchanger Technology for Marine Use	JP-13
		Research on Failure Prediction of Diesel Engine with Artificial Intelligence	JP-13
		Research on Hydrogen Gas Turbine	JP-14
		Research on Performance of a Stack of Solid Oxide Fuel Cells	JP-14

ECONOMIES	INSTITUTE		KEY PROJECT	PAGE
Japan	Ministry of Transport	Ship Research Institute	Research on Quantification of Combustion and Exhaust Emissions from Marine Diesel Engines	JP-15
			Research on Stirling Engine Systems for Under-Water Vehicles	JP-15
			Safety Assessment of High Speed Vessel Traffic Using Computer Simulation	JP-17
			Study on Electromagnetic	JP-17
			Study on Ice Forces on a Structure in Ice Covered Sea	JP-17
			Study on Performance of Ice-breaking Patrol Ship	JP-18
			Study on Protection against Impact Force on Life-saving Appliances for ship	JP-18
			Study on safety evaluation ship hull	JP-19
			Study on safety factor for design of FRP boat	JP-20
			Study on safety marine FRP in low temperature region	JP-20
			Surf-riding of a Ship	JP-20
			Mexico	Engineering Institute
Regional effects of the economic opening and transport demand	MX-2			
Regional impacts of the economic opening and development of the mexican transport system	MX-2			
Submerged breakwater	Mx-10			
		Hydrodynamic analysis of structures and maritime vehicles		MX-11
Mexican Transport Institute		Connectivity analysis of the main maritime and border ports in order to improve their integration to the road and rail networks		MX-19

PROJECT LIST - Field : Water Transportation -

			General transport study of the southeast region of Mexico	MX-21
			Methodology for freight transport corridors analysis	MX-23
			Transport situation of some products of Mexican foreign trade	MX-25
			Competitive increase in freight transportation	MX-26
			Transport and trade flow	MX-27
			A methodology to study logistics services offer and transport costs	MX-27
Chinese Taipei	Office of Science & Technology Advisors		Feasibility Study High Speed Wingship Transportation System around Taiwan	CT-6
<b>ECONOMIES</b>	<b>INSTITUTE</b>	<b>KEY PROJECT</b>	<b>PAGE</b>	
Thailand	Office of Maritime Promotion Commission	Research and Planning Division	Project Evaluation	TH-1
			Study on Transport Master Plan	TH-1
			Outbound Ocean Transportation of Frozen Products in Thailand	TH-6

Economies	Canada
Institute	Alberta Transportation & Utilities Research and Development Branch
Field Number(s)	1
Overall Contact Point	(1) Name: T.Wills (2) Title: Section Head, Maintenance & Materials Section (3) Phone: 403-422-2087 Fax: 403-422-2846 E-mail:
Other Remarks	

Economies	Canada
Institute	Centre for Surface Transportation Technology National Research Council of Canada
Field Number(s)	1
Overall Contact Point	(1) Name: John Coleman (2) Title: Director General (3) Phone: 613-998-9638 Fax: 613-957-0831 E-mail: john.coleman@nrc.ca
Other Remarks	

Economies	Canada
Institute	Institute for Aerospace Research National Research Council of Canada
Field Number(s)	3
Overall Contact Point	(1) Name: Dr.Tom LeFeuvre (2) Title: Director General (3) Phone: 613-993-0141 Fax: 613-952-7214 E-mail: tom.lefeuvre@nrc.ca
Other Remarks	Aerospace Research and Development, and evaluation in fields of aerodynamics, flight mechanics, structures, materials, and propulsion. Annual expenditures approximately \$23M, with staff complement of 240. Over 50% of work cost shared with Canadian Industry and government.

Economies	Canada
Institute	Alberta Transportation & Utilities Research and Development Branch
Field Number(s)	1
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Other Remarks	

Economies	Canada
Institute	Centre for Surface Transportation Technology National Research Council of Canada
Field Number(s)	1
Overall Contact Point	(1) Name: John Coleman (2) Title: Director General (3) Phone: 613-998-9638 Fax: 613-957-0831 E-mail: john.coleman@nrc.ca
Other Remarks	

Economies	Canada
Institute	
Field Number(s)	1
Overall Contact Point	(1) Name: (2) Title: (3) Phone: Fax: E-mail:
Other Remarks	

Economies  
Canada

Institute  
Institute for Aerospace Research  
National Research Council of Canada

3

Dr. Tom LeFeuvre  
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Other Remarks

Aerospace Research and Development, and evaluation in fields of aerodynamics, flight mechanics, structures, materials, and propulsion. Annual expenditures approximately \$23M, with staff complement of 240. Over 50% of work cost shared with Canadian Industry and government.

Economies  
Canada

Institute  
Institute for Marine Dynamics  
National Research Council of Canada

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2,4,5

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Other Remarks

Economies  
Canada

Institute  
Ministere des transports, Quebec  
Laboratoire des chaussés

Field Number(s)  
1

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Other Remarks

Economies

Canada

Institute  
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Research and Development Branch

Field Number(s)  
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Other Remarks

Economies  
Canada

Institute  
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Transportation Technology & Energy Branch

Field Number(s)  
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Other Remarks

Economies

Canada

Institute

Institute for Marine Dynamics

National Research Council of Canada

Field Number(s)

2,4,5

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Other Remarks

Economies  
Canada

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Economies  
Canada

Institute  
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Field Number(s)  
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Economies  
Canada

Institute  
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Transportation Technology & Energy Branch

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Other Remarks

Economies  
Canada

Institute  
Saskatchewan Highways & Transportation  
Planning and Coordination Branch

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Other Remarks

Economies  
Canada

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Field Number(s)  
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Other Remarks  
Formerly: Transport Canada Motor Vehicle Test Centre, Blainville

Economies  
Canada

Institute  
Transportation Association of Canada

Field Number(s)  
1

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Other Remarks

Although not a research or testing institution, the TAC R&D Council publishes annually an inventory of ongoing transportation research in Canada. Also, an inventory of laboratory facilities for Road Transportation was published in 1992.

Economies  
Canada

Institute  
Transportation Development Centre  
Transport Canada

Field Number(s)



1,2,3,8

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Other Remarks

Economies  
Canada

Institute  
Saskatchewan Highways & Transportation  
Planning and Coordination Branch

Field Number(s)  
1

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Other Remarks

Economies  
Canada

Institute  
Centre d'essais et de recherches (PMG Technologies Inc.)

Field Number(s)  
1

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Other Remarks

Formerly: Transport Canada Motor Vehicle Test Centre, Blainville

Economies  
Canada

Institute  
Transportation Association of Canada

Field Number(s)  
1

(1) Name:  
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**Other Remarks**

Although not a research or testing institution, the TAC R&D Council publishes annually an inventory of ongoing transportation research in Canada. Also, an inventory of laboratory facilities for Road Transportation was published in 1992.

Economies  
Canada

Institute  
Transportation Development Centre  
Transport Canada

Field Number(s)

1,2,3,8

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Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Dryden Commission Implementation Project, Aircraft Ground Deicing

Field Number(s)

3

(1) Name:

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Schedule  
from  
1993  
to  
1997  
(  
7  
year(s))

Record of Cooperation  
US NASA/FAA, International Airlines

Other Remarks  
- Meteorology,  
- Anti-icing fluids,  
- Aircraft performance,  
- Ice-detection,  
- Effect of runaway contamination in A/C tire friction,

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aging Aircraft non-destructive inspection

Field Number(s)

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Schedule  
from  
1993  
to  
1995  
(  
3  
year(s))

Record of Cooperation  
US FAA, USAF, NRCC, International Airlines

Other Remarks  
Corrosion

#### KEY PROJECTS UNDERWAY

Name of the Project  
APEC Satellite Navigation / Communications Project

Field Number(s)  
2,3

(1) Name:  
A.E. Pokotylo

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(2) Title:  
Director General

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Fax:  
613-991-6045

E-mail:

Schedule from 1995 to 1997 (2year(s))

Record of Cooperation APEC Economies

Other Remarks

Canada is sponsoring the studies consisting of:

- inventory of existing SN&C systems,
- state-of-the-art technology assessment & safety implications, economic evaluation of the implementation of SN&C systems,
- policy advice, project coordination and final reporting.

#### KEY PROJECTS UNDERWAY

Name of the Project

Dryden Commission Implementation Project, Aircraft Ground Deicing

Field Number(s)

3

(1) Name:

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Schedule  
from  
1993  
to  
1997  
(  
7  
year(s))

Record of Cooperation  
US NASA/FAA, International Airlines

Other Remarks  
- Meteorology,  
- Anti-icing fluids,  
- Aircraft performance,  
- Ice-detection,  
- Effect of runway contamination in A/C tire friction,

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aging Aircraft non-destructive inspection

Field Number(s)

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E-mail:  
renej@tc.gc.ca

Schedule  
from  
1993  
to  
1995  
(  
3  
year(s))

Record of Cooperation  
US FAA, USAF, NRCC, International Airlines

Other Remarks  
Corrosion

#### KEY PROJECTS UNDERWAY

Name of the Project  
APEC Satellite Navigation / Communications Project

Field Number(s)  
2,3

(1) Name:  
A.E. Pokotylo

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Director General

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Fax:  
613-991-6045

E-mail:

Schedule  
from  
1995  
to  
1997  
(  
2  
year(s))

Record of Cooperation  
APEC Economies

Other Remarks

Canada is sponsoring the studies consisting of:

- inventory of existing SN&C systems,
- state-of-the-art technology assessment & safety implications, economic evaluation of the implementation of SN&C systems,
- policy advice, project coordination and final reporting.

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Security

Field Number(s)  
3

(1) Name:  
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Schedule  
from  
1985  
to  
1997  
(  
12  
year(s))

Record of Cooperation  
US FAA

Other Remarks  
- Explosive detection,  
- X-Ray pattern recognition

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Traffic Services

Field Number(s)  
3

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Schedule  
from  
1980  
to  
1996  
(  
14  
year(s))

Record of Cooperation  
US FAA/NASA

Other Remarks  
- Air Traffic control sequencing,  
- Wake vortex prediction and advisory system,  
- GPS Navigation

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aviation Search and Rescue

Field Number(s)  
3

(1) Name:  
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Schedule  
from  
1989  
to  
1997  
(  
8  
year(s))

Record of Cooperation

Other Remarks  
- 406Mhz emergency locator transmitter,  
- Combined GPS/ELT

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Security

Field Number(s)  
3

(1) Name:  
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Schedule  
from  
1985  
to  
1997  
(  
12  
year(s))

Record of Cooperation  
US FAA

Other Remarks  
- Explosive detection,  
- X-Ray pattern recognition

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Traffic Services

Field Number(s)  
3

(1) Name:  
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Contact Point  
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Acting Chief,

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Schedule  
from  
1980  
to  
1996  
(  
14  
year(s))

Record of Cooperation  
US FAA/NASA

Other Remarks  
- Air Traffic control sequencing,  
- Wake vortex prediction and advisory system,  
- GPS Navigation

KEY PROJECTS UNDERWAY

Name of the Project  
Aviation Search and Rescue

Field Number(s)  
3

(1) Name:  
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Contact Point

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Senior Development Officer

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Schedule  
from  
1989  
to  
1997  
(  
8  
year(s))

Record of Cooperation

Other Remarks  
- 406Mhz emergency locator transmitter,  
- Combined GPS/ELT

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aviation Weather

Field Number(s)  
3

(1) Name:  
Howard Posluns

Contact Point  
(2) Title:



Senior Development Officer

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
h.posluns@resonet.com

Schedule  
from  
1989  
to  
1996  
(  
7  
year(s))

Record of Cooperation  
US FAA

Other Remarks  
- Micro-burst/wind shear detection,  
- Nowcasting

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aviation System Safety

Field Number(s)  
3

(1) Name:  
Howard Posluns

Contact Point  
(2) Title:

Acting Chief,  
Advanced Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
h.posluns@resonet.com

Schedule  
from  
1995  
to  
1998  
(  
3  
year(s))

Record of Cooperation  
US FAA/NASA

Other Remarks  
- Flight data monitoring,  
- Flight operational quality assurance,  
- Optimum location of flight data recorders

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aircraft Evacuation Model

Field Number(s)  
3

(1) Name:  
Roy Nishizaki

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

nishizr@tc.gc.ca

Schedule

from

1995

to

1998

(

3

year(s))

Record of Cooperation

U.K. Cranfield University

Other Remarks

- Development of an aircraft evacuation model

#### KEY PROJECTS UNDERWAY

Name of the Project

Aviation Weather

Field Number(s)

3

(1) Name:

Howard Posluns

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
h.posluns@resonet.com

Schedule  
from  
1989  
to  
1996  
(  
7  
year(s))

Record of Cooperation  
US FAA

Other Remarks  
- Micro-burst/wind shear detection,  
- Nowcasting

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aviation System Safety

Field Number(s)  
3

(1) Name:  
Howard Posluns

Contact Point  
(2) Title:

Acting Chief,  
Advanced Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
h.posluns@resonet.com

Schedule  
from  
1995  
to  
1998  
(  
3  
year(s))

Record of Cooperation  
US FAA/NASA

Other Remarks  
- Flight data monitoring,  
- Flight operational quality assurance,  
- Optimum location of flight data recorders

#### KEY PROJECTS UNDERWAY

Name of the Project  
Aircraft Evacuation Model

Field Number(s)  
3

(1) Name:  
Roy Nishizaki

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

nishizr@tc.gc.ca

Schedule

from

1995

to

1998

(

3

year(s))

Record of Cooperation

U.K. Cranfield University

Other Remarks

- Development of an aircraft evacuation model

#### KEY PROJECTS UNDERWAY

Name of the Project

Child Safety Seat

Field Number(s)

3

(1) Name:

Roy Nishizaki

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
nishizr@tc.gc.ca

Schedule  
from  
1995  
to  
1998  
(  
3  
year(s))

Record of Cooperation

Other Remarks

- Development of a child safety seat for use on aircraft meeting Transport Canada safety standards

#### KEY PROJECTS UNDERWAY

Name of the Project  
Dangerous Goods R&D Program

Field Number(s)  
1

(1) Name:  
W. McLaren

Contact Point  
(2) Title:

Chief,  
Current Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:

Schedule  
from

to

(

year(s))

Record of Cooperation  
United States

Other Remarks  
- BLEVE research,  
- Pressure relief valve testing,  
- Tank car safety

#### KEY PROJECTS UNDERWAY

Name of the Project  
Human Factors

Field Number(s)  
3

(1) Name:  
Howard Posluns



Contact Point

(2) Title:

Acting Chief,  
Advanced Technology Division

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

h.posluns@resonet.com

Schedule

from

1992

to

1997

(

5

year(s))

Record of Cooperation

Other Remarks

- Controller shiftwork,
- Pilot shiftwork/fatigue

#### KEY PROJECTS UNDERWAY

Name of the Project

Child Safety Seat

Field Number(s)

3

(1) Name:

Roy Nishizaki

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

nishizr@tc.gc.ca

Schedule

from

1995

to

1998

(

3

year(s))

Record of Cooperation

Other Remarks

- Development of a child safety seat for use on aircraft meeting Transport Canada safety standards

#### KEY PROJECTS UNDERWAY

Name of the Project

Dangerous Goods R&D Program

Field Number(s)

1

(1) Name:

W. McLaren

Contact Point  
(2) Title:  
Chief,  
Current Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:

Schedule  
from

to

(

year(s))

Record of Cooperation  
United States

Other Remarks  
- BLEVE research,  
- Pressure relief valve testing,  
- Tank car safety

#### KEY PROJECTS UNDERWAY

Name of the Project  
Human Factors

Field Number(s)  
3

(1) Name:

Howard Posluns

Contact Point

(2) Title:  
Acting Chief,  
Advanced Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
h.posluns@resonet.com

Schedule  
from  
1992  
to  
1997  
(  
5  
year(s))

Record of Cooperation

Other Remarks  
- Controller shiftwork,  
- Pilot shiftwork/fatigue

#### KEY PROJECTS UNDERWAY

Name of the Project  
Inshore Navigation

Field Number(s)  
2

(1) Name:

James Reid

Contact Point

(2) Title:

Chief,

Transportation Systems Technology Division

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

reidj@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

- Advanced Electronics Chart Systems,
- Manoeuvring Predictive System

#### KEY PROJECTS UNDERWAY

Name of the Project

Marine Operations / Environmental Protection

Field Number(s)

2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief,  
Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation

Other Remarks  
- Predictive Maintenance  
- Tanker Risk Analysis Oilspill  
- Prevention Techniques

#### KEY PROJECTS UNDERWAY

Name of the Project  
Railway Research Program

Field Number(s)  
1

(1) Name:  
W. McLaren

Contact Point  
(2) Title:  
Chief,  
Current Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
mclarew@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation  
US FRA

Other Remarks  
- Railway Research Advisory Board,  
- Human Factors in Railways,  
- Instrumented Wheelsets

#### KEY PROJECTS UNDERWAY

Name of the Project  
Inshore Navigation

Field Number(s)

2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief,  
Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation

Other Remarks  
- Advanced Electronics Chart Systems,  
- Manoeuvring Predictive System

#### KEY PROJECTS UNDERWAY

Name of the Project  
Marine Operations / Environmental Protection



Field Number(s)

2

(1) Name:

James Reid

Contact Point

(2) Title:

Chief,

Transportation Systems Technology Division

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

reidj@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

- Predictive Maintenance
- Tanker Risk Analysis Oilspill
- Prevention Techniques

KEY PROJECTS UNDERWAY

Name of the Project

Railway Research Program

Field Number(s)

1

(1) Name:

W. McLaren

Contact Point

(2) Title:

Chief,  
Current Technology

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

mclarew@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

US FRA

Other Remarks

- Railway Research Advisory Board,
- Human Factors in Railways,
- Instrumented Wheelsets

KEY PROJECTS UNDERWAY

Name of the Project  
Railway Safety

Field Number(s)  
1

(1) Name:  
W. McLaren

Contact Point  
(2) Title:  
Chief,  
Current Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
mclarew@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation  
United States

Other Remarks  
- Railway crossing R&D

KEY PROJECTS UNDERWAY

Name of the Project  
Regulatory Support for Open Waters and Ice-Infested Waters

Field Number(s)  
2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief,  
Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule  
from

to

(  
year(s))

Record of Cooperation  
United States Coast Guard

Other Remarks  
- Propulsion Loading,  
- Passenger Vessel Safety,  
- Structural Stability

## KEY PROJECTS UNDERWAY

### Name of the Project

Research and development program to improve the accessibility, energy efficiency and environmental friendliness of urban transit buses

### Field Number(s)

1

### (1) Name:

Claude Guerette

### Contact Point

#### (2) Title:

Senior Development Officer

### (3) Phone:

514-283-7158

### Fax:

514-283-7158

### E-mail:

gueretc@tc.gc.ca

### Schedule

from

to

(

year(s))

### Record of Cooperation

### Other Remarks

Current projects include the development of an 18m low-floor articulated bus, investigations of lightweight materials and structural design for buses, and studies of high efficiency hybrid propulsion systems.

## KEY PROJECTS UNDERWAY

Name of the Project  
Railway Safety

Field Number(s)  
1

(1) Name:  
W. McLaren

Contact Point  
(2) Title:  
Chief,  
Current Technology

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
mclarew@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation  
United States

Other Remarks  
- Railway crossing R&D

## KEY PROJECTS UNDERWAY

Name of the Project  
Regulatory Support for Open Waters and Ice-Infested Waters

Field Number(s)  
2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief,  
Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation  
United States Coast Guard

Other Remarks  
- Propulsion Loading,  
- Passenger Vessel Safety,  
- Structural Stability

## KEY PROJECTS UNDERWAY

### Name of the Project

Research and development program to improve the accessibility, energy efficiency and environmental friendliness of urban transit buses

### Field Number(s)

1

### (1) Name:

Claude Guerette

### Contact Point

#### (2) Title:

Senior Development Officer

### (3) Phone:

514-283-7158

### Fax:

514-283-7158

### E-mail:

gueretc@tc.gc.ca

### Schedule

from

to

(

year(s))

### Record of Cooperation

### Other Remarks

Current projects include the development of an 18m low-floor articulated bus,



investigations of lightweight materials and structural design for buses, and studies of high efficiency hybrid propulsion systems.

#### KEY PROJECTS UNDERWAY

Name of the Project  
Electric Vehicle Research Program

Field Number(s)  
1

(1) Name:  
Claude Guerette

Contact Point  
(2) Title:  
Senior Development Officer

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
gueretc@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation

Other Remarks

- operational evaluation of Ford and Chrysler battery-powered pre-production vehicles,

- research on hybrid-electric drive systems,
- studies of EV infrastructure requirements and impacts

## KEY PROJECTS UNDERWAY

### Name of the Project

Research program on the application of electronics, communications and computer technologies to road transportation (IVHS)

### Field Number(s)

1

### (1) Name:

Lewis Sabounghi

### Contact Point

#### (2) Title:

Senior Development Officer

### (3) Phone:

514-283-7158

### Fax:

514-283-7158

### E-mail:

sabounl@tc.gc.ca

### Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

Current program emphasis on the used radio frequency vehicle-to-roadside communications for the monitoring and control of commercial vehicles.

KEY PROJECTS UNDERWAY

Name of the Project

Research program on the safety of heavy road freight vehicles

Field Number(s)

1

(1) Name:

Sesto Vespa

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

vespas@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

Current projects include; testing antilock breaking systems on double-trailer tanker trucks, investigating the stability of different logging truck configurations, and a study of fatigue in commercial vehicle drivers.

KEY PROJECTS UNDERWAY

Name of the Project

Electric Vehicle Research Program

Field Number(s)

1

(1) Name:

Claude Guerette

Contact Point

(2) Title:

Senior Development Officer

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514-283-7158

Fax:

514-283-7158

E-mail:

gueretc@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

- operational evaluation of Ford and Chrysler battery-powered pre-production vehicles,
- research on hybrid-electric drive systems,
- studies of EV infrastructure requirements and impacts

KEY PROJECTS UNDERWAY

Name of the Project

Research program on the application of electronics, communications and computer technologies to road transportation (IVHS)

Field Number(s)

1

(1) Name:

Lewis Sabounghi

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

sabounl@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

Current program emphasis is on the used radio frequency vehicle-to-roadside communications for the monitoring and control of commercial vehicles.

KEY PROJECTS UNDERWAY

Name of the Project

Research program on the safety of heavy road freight vehicles

Field Number(s)

1

(1) Name:

Sesto Vespa

Contact Point

(2) Title:

Senior Development Officer

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

vespas@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

Current projects include; testing antilock breaking systems on double-trailer tanker trucks, investigating the stability of different logging truck configurations, and a study of fatigue in commercial vehicle drivers.

KEY PROJECTS UNDERWAY

Name of the Project

Road transportation research and development program

Field Number(s)

1

(1) Name:

Brian Marshall

Contact Point

(2) Title:

Chief,  
Technology Application Division

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

marshab@tc.gc.ca

Schedule

from

to

(

year(s))

## Record of Cooperation

### Other Remarks

TDC's program of road transportation R&D focusses on Intelligent Vehicle-Highway Systems (IVHS) and heavy vehicle safety and productivity.

## KEY PROJECTS UNDERWAY

### Name of the Project

Transportation Accessibility for Elderly and Disabled Persons

### Field Number(s)

1,2,3

### (1) Name:

Ling Suen

### Contact Point

#### (2) Title:

Chief,  
Research Analysis & Special Programs Division

### (3) Phone:

514-283-7158

### Fax:

514-283-7158

### E-mail:

suenl@tc.gc.ca

### Schedule

from

to

(

year(s))



Record of Cooperation  
US DOT ; TRB

Other Remarks

Program in all modes; deals with technologies for mobility impaired, sensory and cognitively impaired travellers.

KEY PROJECTS UNDERWAY

Name of the Project  
Transportation Ergonomics

Field Number(s)  
1,2,3

(1) Name:  
Ling Suen

Contact Point  
(2) Title:  
Chief,  
Research Analysis & Special Programs Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
suenl@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation

Other Remarks

Developing a transportation framework. Focus is on operator selection and performance and ergonomic design of systems and equipment to optimize the safety, productivity and capacity of the overall human machine system.

### KEY PROJECTS UNDERWAY

Name of the Project

Road transportation research and development program

Field Number(s)

1

(1) Name:

Brian Marshall

Contact Point

(2) Title:

Chief,  
Technology Application Division

(3) Phone:

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Fax:

514-283-7158

E-mail:

marshab@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation

Other Remarks

TDC's program of road transportation R&D focusses on Intelligent Vehicle-Highway Systems (IVHS) and heavy vehicle safety and productivity.

### KEY PROJECTS UNDERWAY

Name of the Project

Transportation Accessibility for Elderly and Disabled Persons

Field Number(s)

1,2,3

(1) Name:

Ling Suen

Contact Point

(2) Title:

Chief,

Research Analysis & Special Programs Division

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

suenl@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation  
US DOT ; TRB

Other Remarks

Program in all modes; deals with technologies for mobility impaired, sensory and cognitively impaired travellers.

### KEY PROJECTS UNDERWAY

Name of the Project  
Transportation Ergonomics

Field Number(s)  
1,2,3

(1) Name:  
Ling Suen

Contact Point  
(2) Title:  
Chief,  
Research Analysis & Special Programs Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
suenl@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation

Other Remarks

Developing a transportation framework. Focus is on operator selection and performance and ergonomic design of systems and equipment to optimize the safety, productivity and capacity of the overall human machine system.

#### KEY PROJECTS UNDERWAY

Name of the Project

Search and Rescue

Field Number(s)

2

(1) Name:

James Reid

Contact Point

(2) Title:

Chief, Transportation Systems Technology Division

(3) Phone:

514-283-7158

Fax:

514-283-7158

E-mail:

reidj@tc.gc.ca

Schedule

from

to

(

year(s))

Record of Cooperation  
United States

Other Remarks  
- Drift Modelling,  
- Detection Experiments,  
- Human Performance Limits

#### KEY PROJECTS UNDERWAY

Name of the Project  
Vessel Traffic Services

Field Number(s)  
2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief,  
Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation

Other Remarks

- Radar System Enhancement,
- Improved Buoyage System

#### KEY PROJECTS UNDERWAY

Name of the Project  
Search and Rescue

Field Number(s)  
2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief, Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule  
from

to

(

year(s))

Record of Cooperation  
United States

Other Remarks

- Drift Modelling,
- Detection Experiments,
- Human Performance Limits

#### KEY PROJECTS UNDERWAY

Name of the Project  
Vessel Traffic Services

Field Number(s)  
2

(1) Name:  
James Reid

Contact Point  
(2) Title:  
Chief,  
Transportation Systems Technology Division

(3) Phone:  
514-283-7158

Fax:  
514-283-7158

E-mail:  
reidj@tc.gc.ca

Schedule



from

to

(

year(s))

Record of Cooperation

Other Remarks

- Radar System Enhancement,
- Improved Buoyage System

Economies

Canada

Institute

Transport Canada Aviation  
Technical Services Branch

Field Number(s)

3

(1) Name:

Ron North

Overall Contact Point

(2) Title:

Executive Director

(3) Phone:

613-991-6151

Fax:

613-954-4677

E-mail:

Other Remarks  
Operational development

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Traffic Management and Surveillance Systems Development

Field Number(s)  
3

(1) Name:  
Clint MacNeil

Contact Point  
(2) Title:  
Superintendent

(3) Phone:  
613-954-4677

Fax:  
613-954-4677

E-mail:  
cmacneil@fox.nstn.ns.ca

Schedule  
from  
1986  
to

(  
year(s))

Record of Cooperation  
FAA

Other Remarks

- Flow management,
- Height monitoring,
- Automatic dependent surveillance,
- Software testing,
- Airport surface monitoring,
- Operational development

## KEY PROJECTS UNDERWAY

Name of the Project  
Communication, Navigation, and Network Systems Development

Field Number(s)  
3

(1) Name:  
Rick Eppich

Contact Point  
(2) Title:  
Superintendent

(3) Phone:  
613-954-4677

Fax:  
613-954-4677

E-mail:

Schedule  
from  
1988  
to

(  
year(s))

Record of Cooperation  
FAA, UK CAA

Other Remarks  
- GPS/GNSS,  
- Automatic dependent surveillance,  
- Data link,  
- Operational development

Economies  
Canada

Institute  
Transport Canada Aviation  
Technical Services Branch

Field Number(s)  
3

(1) Name:  
Ron North

Overall Contact Point  
(2) Title:  
Executive Director

(3) Phone:  
613-991-6151

Fax:  
613-954-4677

E-mail:

Other Remarks  
Operational development

KEY PROJECTS UNDERWAY

Name of the Project  
Air Traffic Management and Surveillance Systems Development

Field Number(s)  
3

(1) Name:  
Clint MacNeil

Contact Point  
(2) Title:  
Superintendent

(3) Phone:  
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Fax:  
613-954-4677

E-mail:  
cmacneil@fox.nstn.ns.ca

Schedule  
from  
1986  
to

(  
year(s))

Record of Cooperation  
FAA

Other Remarks  
- Flow management,  
- Height monitoring,  
- Automatic dependent surveillance,  
- Software testing,  
- Airport surface monitoring,  
- Operational development

## KEY PROJECTS UNDERWAY

Name of the Project  
Communication, Navigation, and Network Systems Development

Field Number(s)  
3

(1) Name:  
Rick Eppich

Contact Point  
(2) Title:  
Superintendent

(3) Phone:  
613-954-4677

Fax:  
613-954-4677

E-mail:

Schedule  
from  
1988  
to

(  
year(s))

Record of Cooperation  
FAA, UK CAA

Other Remarks  
- GPS/GNSS,  
- Automatic dependent surveillance,

- Data link,
- Operational development

Economies  
Canada

Institute  
Transport Canada Aviation  
Air Traffic Services Research and Experimentation Centre

Field Number(s)  
3

(1) Name:  
Joel Morin

Overall Contact Point  
(2) Title:  
Manager

(3) Phone:  
613-991-4244

Fax:  
613-991-0732

E-mail:  
NSTN0197@F.NSTN.NS.CA

Other Remarks  
Canadian Airspace Management Simulator

#### KEY PROJECTS UNDERWAY

Name of the Project  
ATC Human Factors

Field Number(s)  
3

(1) Name:  
Joel Morin

Contact Point  
(2) Title:  
Manager

(3) Phone:  
613-991-0732

Fax:  
613-991-0732

E-mail:

Schedule  
from  
1990  
to

(  
year(s))

Record of Cooperation  
European Civil Aviation

Other Remarks  
- Control tower integration,  
- Control tower virtual reality,  
- ATC voice recognition,  
- ADS/Mode S,  
- Canadian Automated Air Traffic System

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Traffic Control, Fast-time and real-time simulation



Field Number(s)

3

(1) Name:

Joel Morin

Contact Point

(2) Title:

Manager

(3) Phone:

613-991-0732

Fax:

613-991-0732

E-mail:

Schedule

from

1990

to

(

year(s))

Record of Cooperation

Environmental, FAA

Other Remarks

- Canadian Airspace Management Simulator (CAMS)

Economies

Canada

Institute

Transport Canada Aviation

Air Traffic Services Research and Experimentation Centre

Field Number(s)

3

(1) Name:

Joel Morin

Overall Contact Point

(2) Title:

Manager

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NSTN0197@F.NSTN.NS.CA

Other Remarks

Canadian Airspace Management Simulator

## KEY PROJECTS UNDERWAY

Name of the Project

ATC Human Factors

Field Number(s)

3

(1) Name:

Joel Morin

Contact Point

(2) Title:

Manager

(3) Phone:  
613-991-0732

Fax:  
613-991-0732

E-mail:

Schedule  
from  
1990  
to

(  
year(s))

Record of Cooperation  
European Civil Aviation

Other Remarks  
- Control tower integration,  
- Control tower virtual reality,  
- ATC voice recognition,  
- ADS/Mode S,  
- Canadian Automated Air Traffic System

#### KEY PROJECTS UNDERWAY

Name of the Project  
Air Traffic Control, Fast-time and real-time simulation

Field Number(s)  
3

(1) Name:  
Joel Morin

Contact Point  
(2) Title:

Manager

(3) Phone:  
613-991-0732

Fax:  
613-991-0732

E-mail:

Schedule  
from  
1990  
to

(  
year(s))

Record of Cooperation  
Environmental, FAA

Other Remarks  
- Canadian Airspace Management Simulator (CAMS)

#### KEY PROJECTS UNDERWAY

Name of the Project  
Flow Management

Field Number(s)  
3

(1) Name:  
Joel Morin

Contact Point  
(2) Title:  
Manager

(3) Phone:  
613-991-0732

Fax:  
613-991-0732

E-mail:

Schedule  
from  
1990  
to

(  
year(s))

Record of Cooperation  
FAA/NASA/European Civil Aviation

Other Remarks  
- Traffic routing decision support,  
- Air traffic sequencing tool (CTAS),  
- Canadian Airspace Management Simulator (CAMS)

#### KEY PROJECTS UNDERWAY

Name of the Project  
Flow Management

Field Number(s)  
3

(1) Name:  
Joel Morin

Contact Point  
(2) Title:  
Manager

(3) Phone:  
613-991-0732

Fax:  
613-991-0732

E-mail:

Schedule  
from  
1990  
to

(

year(s))

Record of Cooperation  
FAA/NASA/European Civil Aviation

Other Remarks

- Traffic routing decision support,
- Air traffic sequencing tool (CTAS),
- Canadian Airspace Management Simulator (CAMS)

Economies	P.R.China
Institute	China Academy of Railway Sciences
Field Number(s)	1
Overall Contact Point	(1) Name: Zhu Qijie (2) Title: Director, Research Planning (3) Phone: 86-1-3249343 Fax: 86-1-3249055 E-mail:
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on technical approaches for Beijing-Shanghai high speed (250km/h) railway line
Field Number(s)	1
Contact Point	(1) Name: Zhu Qijie (2) Title: Director, Research Planning (3) Phone: 86-1-3249343 Fax: 86-1-3249055 E-mail:
Schedule	from 1994 to 1995 ( 2 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on technical approaches for application of 25t axleload for freight train operation in China
Field Number(s)	1
Contact Point	(1) Name: Zhu Qijie (2) Title: Director, Research Planning (3) Phone: 86-1-3249343 Fax: 86-1-3249055 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	comprehensive testing on Guangzhou-Shenzhen 160km/h passenger trains
Field Number(s)	1
Contact Point	(1) Name: Zhu Qijie (2) Title: Director, Research Planning (3) Phone: 86-1-3249343 Fax: 86-1-3249055 E-mail:

Schedule	from 1992 to 1994 ( 3 year(s))
Record of Cooperation	
Other Remarks	



Economies	P.R.China
Institute	Civil Aviation College of China
Field Number(s)	3
Overall Contact Point	(1) Name: Li Chang (2) Title: Director, 3D Display Technology Research Institute (3) Phone: 8622-4393347 Fax: E-mail:
Other Remarks	research areas: 3D display technology

Economies	P.R.China
Institute	Civil Aviation Flight College of China
Field Number(s)	3
Overall Contact Point	(1) Name: (2) Title: Director, Foreign Affairs Office (3) Phone: 868233223097 Fax: E-mail:
Other Remarks	research areas: research and production of DRS-93 radar simulator

Economies	P.R.China
Institute	No.1 Research institute of CAAC
Field Number(s)	3
Overall Contact Point	(1) Name: Xu Shukang (2) Title: Director of Science & Technology Office (3) Phone: 861-4222220 Fax: 861-4276962 E-mail:
Other Remarks	research areas: 1) CNS/ATM system 2) air transport operation 3) civil aviation information 4) flight safety 5) civil aviation development 6) aeronautical medicine

Economies	P.R.China
Institute	No.2 Research institute of CAAC
Field Number(s)	3
Overall Contact Point	(1) Name: Jin Erwen (2) Title: Director, Office of Science & Technology (3) Phone: 8628-5551923 Fax: 8628-5551923 E-mail:
Other Remarks	research areas: 1) computer application in civil aviation 2) aerial operation technology for agriculture and forrest 3) research and production of aeronautical chemical products

Economies  
Indonesia

Institute  
Department of Communications  
Center of Data and Information

Field Number(s)  
1,2,3

(1) Name:  
Ir. Cahyono Partawijaya, MATr

Overall Contact Point  
(2) Title:  
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(3) Phone:  
384-7782

Fax:  
386-2371

E-mail:  
Pusdatin

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Common Data Base

Field Number(s)  
1,2,3

(1) Name:  
Sunayono. SE.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
386-2371

Fax:  
386-2371

E-mail:  
Pusaan

Schedule  
from  
1994  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Land Communications Research and Development Centre

Field Number(s)  
1,2,8

(1) Name:

Ir. Dts. A. Razak Manan MM. MSI

Overall Contact Point

(2) Title:

Head, Land Communications Research and Development

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Fax:

385-9795

E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Study of land transport standardization

Field Number(s)

1,2,8

(1) Name:

Tamau maar Drs.

Contact Point

(2) Title:

Project Officer

(3) Phone:

384-9795

Fax:

384-9795

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Center of Data and Information

Field Number(s)  
1,2,3

(1) Name:  
Ir. Cahyono Partawijaya, MATr

Overall Contact Point  
(2) Title:  
Head, Center of Data and Information

(3) Phone:  
384-7782

Fax:  
386-2371

E-mail:  
Pusdatin

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project  
Common Data Base

Field Number(s)  
1,2,3

(1) Name:  
Sunayono. SE.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
386-2371

Fax:  
386-2371

E-mail:  
Pusaan

Schedule  
from  
1994  
to  
1997  
(  
year(s))

## Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Land Communications Research and Development Centre

Field Number(s)  
1,2,8

(1) Name:  
Ir. Dts. A. Razak Manan MM. MSI

Overall Contact Point  
(2) Title:  
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E-mail:

Other Remarks

KEY PROJECTS UNDERWAY



Name of the Project  
Study of land transport standardization

Field Number(s)  
1,2,8

(1) Name:  
Tamau maar Drs.

Contact Point  
(2) Title:  
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(3) Phone:  
384-9795

Fax:  
384-9795

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Guideline arrangement of urban transport planning

Field Number(s)  
1,2,8

(1) Name:  
Tamau maar Drs.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
384-9795

Fax:  
384-9795

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Criteria of service determination of ferry and sea line

Field Number(s)  
1,2,8

(1) Name:  
Tamau maar Drs.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
384-9795

Fax:  
384-9795

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Sea Communications Research and Development Centre

Field Number(s)

2,4,5

(1) Name:

Ir. Denny L Sianaan

Overall Contact Point

(2) Title:

Head, Sea Communications Research and Development

(3) Phone:

385-7003

Fax:

385-7003

E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Pattern of container transport to make efficient container port dev.

Field Number(s)

2,4,5

(1) Name:

Asma Sa. Drs.

Contact Point

(2) Title:

Project Officer

(3) Phone:  
365-7003

Fax:  
365-7003

E-mail:

Schedule  
from  
1994  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Study of shipping deregulation impact fowards natinal export value and balance

Field Number(s)  
2,4,5

(1) Name:  
Asma Sa. Drs.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:

365-7003

Fax:  
365-7003

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Standardization of means/infrastructure of ea transport

Field Number(s)  
2,4,5

(1) Name:  
Asma Sa. Drs.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
365-7003

Fax:  
365-7003

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Guideline arrangement of urban transport planning

Field Number(s)  
1,2,8

(1) Name:  
Tamau maar Drs.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
384-9795

Fax:  
384-9795

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Criteria of service determination of ferry and sea line

Field Number(s)  
1,2,8

(1) Name:  
Tamau maar Drs.

Contact Point  
(2) Title:  
Project Officer

(3) Phone:  
384-9795

Fax:



384-9795

E-mail:

Schedule

from

1996

to

1997

(

year(s))

Record of Cooperation

Other Remarks

Economies

Indonesia

Institute

Department of Communications

Sea Communications Research and Development Centre

Field Number(s)

2,4,5

(1) Name:

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Overall Contact Point

(2) Title:

Head, Sea Communications Research and Development

(3) Phone:

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Fax:  
385-7003

E-mail:

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Pattern of container transport to make efficient container port dev.

Field Number(s)  
2,4,5

(1) Name:  
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Contact Point  
(2) Title:  
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(3) Phone:  
365-7003

Fax:  
365-7003

E-mail:

Schedule  
from  
1994  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

Study of shipping deregulation impact fowards natinal export value and balance

Field Number(s)

2,4,5

(1) Name:

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(2) Title:

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365-7003

E-mail:

Schedule

from

1996

to

1997

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

Standardization of means/infrastructure of ea transport

Field Number(s)

2,4,5

(1) Name:

Asma Sa. Drs.

Contact Point

(2) Title:

Project Officer

(3) Phone:

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Fax:

365-7003

E-mail:

Schedule

from

1996

to

1997

(

year(s))

Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Air Communications Research and Development Centre

Field Number(s)  
3,8

(1) Name:  
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384-9796

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E-mail:

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project

Policy of limited open sky in Rep.Z□

Field Number(s)

3,8

(1) Name:

Ismad Nazamucom Ir.

Contact Point

(2) Title:

Project Officer

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384-9796

E-mail:

Schedule

from

1996

to

1997

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Perfect the air transport regulation

Field Number(s)

3,8

(1) Name:

Ismad Nazamucom Ir.

Contact Point

(2) Title:

Project Officer

(3) Phone:

384-9796

Fax:

384-9796

E-mail:

Schedule

from

1997

to

1998

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Standarrt of airport service inPelitaZ□

Field Number(s)

3,8

(1) Name:  
Ismad Nazamucom Ir.

Contact Point  
(2) Title:  
Project Officer

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Fax:  
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E-mail:

Schedule  
from  
1995  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Air Communications Research and Development Centre

Field Number(s)



3,8

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Overall Contact Point  
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E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Policy of limited open sky in Rep.

Field Number(s)  
3,8

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Fax:  
384-9796

E-mail:

Schedule  
from  
1996  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Perfect the air transport regulation

Field Number(s)  
3,8

(1) Name:  
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(3) Phone:  
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Fax:  
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E-mail:

Schedule  
from  
1997  
to  
1998  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Standarrt of airport service inPelita□

Field Number(s)  
3,8

(1) Name:  
Ismad Nazamucom Ir.

Contact Point  
(2) Title:  
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(3) Phone:  
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Fax:  
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E-mail:

Schedule  
from  
1995  
to  
1997  
(

year(s))

Record of Cooperation

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Office of Safety Vehicle

Field Number(s)  
6

(1) Name:  
Ir. Tjokorde Gede Agung

Overall Contact Point  
(2) Title:  
Head, Office of Vehicle Safety

(3) Phone:  
526-5887

Fax:  
526-5887

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Office of Maritime Safety Technology

Field Number(s)  
6

(1) Name:  
Sjafarudin Dachi

Overall Contact Point  
(2) Title:  
Head, Office of Maritime Safety Technology

(3) Phone:  
491-726

Fax:  
491-434

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Office of Aviation Facilities Technology

Field Number(s)  
6,7

(1) Name:  
Capt. Endro Kastadi

Overall Contact Point  
(2) Title:  
Head, Office of Aviation Facilities Technology

(3) Phone:  
424-5228

Fax:  
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E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Office of Safety Vehicle

Field Number(s)  
6

(1) Name:  
Ir. Tjokorde Gede Agung

Overall Contact Point  
(2) Title:  
Head, Office of Vehicle Safety

(3) Phone:  
526-5887

Fax:  
526-5887

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Office of Maritime Safety Technology

Field Number(s)  
6

(1) Name:  
Sjafarudin Dachi

Overall Contact Point  
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Head, Office of Maritime Safety Technology

(3) Phone:  
491-726

Fax:  
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E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Department of Communications  
Office of Aviation Facilities Technology

Field Number(s)  
6,7

(1) Name:  
Capt. Endro Kastadi

Overall Contact Point  
(2) Title:  
Head, Office of Aviation Facilities Technology

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Fax:  
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E-mail:

Other Remarks



Economies  
Indonesia

Institute  
Department of Public Works  
Highway Research Center

Field Number(s)  
1

(1) Name:  
Dr. Ir. Patana Rantetoding

Overall Contact Point  
(2) Title:  
Head, Office of Highway Research Centre

(3) Phone:  
022-780-2052

Fax:  
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E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Academic Institute  
Technology and Science Centre

Field Number(s)  
7,8,9

(1) Name:  
Ir. Herudi Kartowisastro

Overall Contact Point  
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Head, Office of Science and Technology of Indonesia

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Other Remarks

Economies  
Indonesia

Institute  
Academic Institute  
National Air Transportation and Aerospace Institute

Field Number(s)  
10

(1) Name:  
Prof. Dr. Ir. H. Harsono Wiryosumarto, Ms. Met. E.

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Head, National Air Transportation and Aerospace Institute

(3) Phone:  
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Fax:  
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E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Bandung Institute of Technology  
Aircraft Construction Laboratory

Field Number(s)  
3

(1) Name:  
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022-250-4529

Fax:  
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Other Remarks

Economies  
Indonesia

Institute  
Department of Public Works  
Highway Research Center

Field Number(s)  
1

(1) Name:  
Dr. Ir. Patana Rantetoding

Overall Contact Point  
(2) Title:  
Head, Office of Highway Research Centre

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Other Remarks

Economies  
Indonesia

Institute  
Academic Institute  
Technology and Science Centre

Field Number(s)  
7,8,9

(1) Name:  
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E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Academic Institute  
National Air Transportation and Aerospace Institute

Field Number(s)  
10

(1) Name:  
Prof. Dr. Ir. H. Harsono Wiryosumarto, Ms. Met. E.

Overall Contact Point  
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Fax:  
489-4815

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Bandung Institute of Technology  
Aircraft Construction Laboratory

Field Number(s)  
3

(1) Name:  
Dr. Ir. Sulaiman Kamil

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(2) Title:  
Head, Aircraft Technology Program

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022-250-4529

Fax:  
022-250-4529

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Bandung Institute of Technology  
Environment Technology Laboratory

Field Number(s)  
8

(1) Name:  
Ir. Suprihamo, Phd

Overall Contact Point  
(2) Title:  
Head, Environment Technology Laboratory

(3) Phone:  
022-250-2647

Fax:  
022-250-2647

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Agency for the Assessment and Application Technology  
Coastal Engineering Laboratory

Field Number(s)

2,5,9

(1) Name:

Ir. Landjono Yasowidardo, MSI. E.

Overall Contact Point

(2) Title:

Head, Coastal Engineering Laboratory

(3) Phone:

316-9850

Fax:

316-9873

E-mail:

Other Remarks

Economies

Indonesia

Institute

Agency for the Assessment and Application Technology

Construction Engineering Laboratory

Field Number(s)

5

(1) Name:

Ir. Gunawan Sakri

Overall Contact Point

(2) Title:

Head, Construction Engineering Laboratory



(3) Phone:  
756-0565

Fax:  
756-0903

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Bandung Institute of Technology  
Environment Technology Laboratory

Field Number(s)  
8

(1) Name:  
Ir. Suprihamo, Phd

Overall Contact Point  
(2) Title:  
Head, Environment Technology Laboratory

(3) Phone:  
022-250-2647

Fax:  
022-250-2647

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Agency for the Assessment and Application Technology  
Coastal Engineering Laboratory

Field Number(s)  
2,5,9

(1) Name:  
Ir. Landjono Yasowidardo, MSI. E.

Overall Contact Point  
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Head, Coastal Engineering Laboratory

(3) Phone:  
316-9850

Fax:  
316-9873

E-mail:

Other Remarks

Economies  
Indonesia

Institute  
Agency for the Assessment and Application Technology  
Construction Engineering Laboratory



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Economies	Japan
Institute	Ministry of Transport Electronic Navigation Research Institute
Field Number(s)	2,3
Overall Contact Point	(1) Name: Yutaka Fukuda (2) Title: Special Assistant to the Deputy Director-General (3) Phone: 422-41-3162 Fax: 422-41-3169 E-mail:
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development on GPS Overlay System
Field Number(s)	3
Contact Point	(1) Name: Ken Ito (2) Title: Onboard Apparatus Section, Satellite Navigation Division (3) Phone: 422-41-3196 Fax: 422-41-3199 E-mail:
Schedule	from 1992 to 1995 ( 4 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Improvement of the Airborne Collision Avoidance System (ACAS-III)
Field Number(s)	3
Contact Point	(1) Name: Masayuki Shirakawa (2) Title: Chief of the Electronic Equipment Section, Development Division (3) Phone: 422-41-3173 Fax: 422-41-3176 E-mail:
Schedule	from 1994 to 1996 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Study on Aircraft Height Monitoring Methodology for Reducing Vertical Separation Minima
Field Number(s)	3
Contact Point	(1) Name: Sakae Nagaoka (2) Title: Chief of the Navigation Systems Section, Development Division (3) Phone: 422-41-3171 Fax: 422-41-3176 E-mail:

Schedule	from 1991 to 1994 ( 3 year(s))
Record of Cooperation	
Other Remarks	

Economies	Japan
Institute	Ministry of Transport Port & Harbour Research Institute
Field Number(s)	6,8,9
Overall Contact Point	(1) Name: Masahiko Fukuichi (2) Title: Chief, Plannning Section (3) Phone: 468-44-5050 Fax: 468-42-9265 E-mail:
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Impact Assessment of Sea Level Rise due to Global Warming
Field Number(s)	6,8,9
Contact Point	(1) Name: Yasushi Hosokawa (2) Title: Chief, Purification Hydraulics Laboratory (3) Phone: 468-44-5019 Fax: 468-42-9265 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	Information and Researchers Exchange with: Univ. of Peking, Beijing, China
Other Remarks	



Economies	Japan
Institute	Ministry of Transport Ship Research Institute
Field Number(s)	2,4,6,7,8,9
Overall Contact Point	(1) Name: Akira Kono (2) Title: Director of the Research Planning Office (3) Phone: 422-41-3002 Fax: 422-41-3247 E-mail:
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	A Study Buffer Equipments for use as Protection against Ship Collision
Field Number(s)	2,6
Contact Point	(1) Name: Kikuo Arita (2) Title: Chief of Advanced Structure Section, Structure Mechanics Division (3) Phone: +81-422-41-3075 Fax: +81-422-41-3085 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	A new buffer equipment was presented for mitigating damage in an unlikely accident of a ship collision with piers of a long-spanned bridge.

KEY PROJECTS UNDERWAY	
Name of the Project	Advanced Man-Machine Interface Techniques for Autonomous Power Plant
Field Number(s)	7
Contact Point	(1) Name: Takeshi Matsuoka (2) Title: Chief of Systems Design Section, Systems Engineering Division (3) Phone: +81-422-41-3131 Fax: +81-422-41-3126 E-mail: PXP02525@niftyserve.or.jp
Schedule	from 1989 to 1998 ( 10 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Advanced Nuclear Plant Operation Based on Perception and Senses as Human Group
Field Number(s)	7
Contact Point	(1) Name: Masayoshi Numano (2) Title: Senior Technical Officer, Systems Engineering Division (3) Phone: +81-422-41-3095 Fax: +81-422-41-3126 E-mail:
Schedule	from 1993 to 1998 ( 6 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	At-sea Experiment of Floating Offshore Structure - POSEIDON Project
Field Number(s)	4,9
Contact Point	(1) Name: Yutaka Ohkawa (2) Title: Chief of Safety and Stability Section, Ocean Engineering Division (3) Phone: 422-41-3147 Fax: 422-41-3143 E-mail:
Schedule	from 1986 to 1990 ( 5 year(s))
Record of Cooperation	
Other Remarks	Full-Scale Data on Environmental Condition, Mooring Force, Motion of Structure, Strength of Structure and Corrosion at-sea Experiment

KEY PROJECTS UNDERWAY	
Name of the Project	Capsizing of a ship in quartering waves
Field Number(s)	2,4
Contact Point	(1) Name: Makoto Kan (2) Title: Director of Ship Dynamics Division (3) Phone: 422-41-3054 Fax: 422-41-3056 E-mail:
Schedule	from 1988 to 1992 ( 5 year(s))
Record of Cooperation	Federal Republic of Germany (1988-1990)
Other Remarks	English publications available

KEY PROJECTS UNDERWAY	
Name of the Project	Chaos and Fractals in Ship Capsizing
Field Number(s)	2,4
Contact Point	(1) Name: Makoto Kan (2) Title: Director of Ship Dynamics Division (3) Phone: 422-41-3054 Fax: 422-41-3056 E-mail:
Schedule	from 1991 to 1995 ( 5 year(s))
Record of Cooperation	
Other Remarks	English publications available

KEY PROJECTS UNDERWAY	
Name of the Project	Corrosion Fatigue and Stress Corrosion Cracking of High Tensile Steel for Ship Hull in Seawater and Crude Oil
Field Number(s)	4
Contact Point	(1) Name: Yuki Kobayashi (2) Title: Chief of Hybrid Structure Section, Structure Mechanics Division (3) Phone: +81-422-41-3079 Fax: +81-422-41-3085 E-mail:
Schedule	from 1993 to 1996 ( 4 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development and Application of a Reliability Analysis Methodology "GO-FLOW" for Nuclear Power Plant System
Field Number(s)	7
Contact Point	(1) Name: Takeshi Matsuoka (2) Title: Chief of Systems Design Section, Systems Engineering Division (3) Phone: +81-422-41-3131 Fax: +81-422-41-3126 E-mail: PXP02525@niftyserve.or.jp
Schedule	from 1989 to 1998 ( 10 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development of Huge Floating Offshore Structure
Field Number(s)	4,9
Contact Point	(1) Name: Shigeo Ohmatsu (2) Title: Chief of Structure Dynamic Section, Ocean Engineering Division (3) Phone: +81-422-41-3144 Fax: +81-422-41-3143 E-mail:
Schedule	from 1992 to 1996 ( 5 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development of Onboard Collision Avoidance System
Field Number(s)	2
Contact Point	(1) Name: Nobuo Arimura (2) Title: Senior Technical Officer, Systems Engineering Division (3) Phone: +81-422-41-3132 Fax: +81-422-41-3126 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development of Testing Technology of Ice Model Basin
Field Number(s)	2,4,5
Contact Point	(1) Name: Koichi Koyama (2) Title: Chief of Marine Dynamics Section, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3154 Fax: +81-422-41-3152 E-mail:
Schedule	from 1991 to 1995 ( 5 year(s))
Record of Cooperation	
Other Remarks	International Towing Tank Conference (Comparative Experiments, exchange of information)

KEY PROJECTS UNDERWAY	
Name of the Project	Development of a Movable Disposal System for Waste FRP Boats
Field Number(s)	4,8
Contact Point	(1) Name: Shinya Hayashi (2) Title: Chief of Processing Section, Materials and Processing Division (3) Phone: 422-41-3107 Fax: 422-41-3112 E-mail:
Schedule	from 1992 to 1994 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development on Active Controlled Floating Structure
Field Number(s)	4,9
Contact Point	(1) Name: Shunji Kato (2) Title: Senior Technical Officer, Ocean Engineering Division (3) Phone: +81-422-41-3149 Fax: +81-422-41-3143 E-mail:
Schedule	from 1992 to 1996 ( 5 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Evaluation of Performance and Safety of Wing-in-Surface Effect Ship (WISES)
Field Number(s)	2
Contact Point	(1) Name: Takeshi Fuwa (2) Title: Chief of High-speed Vehicle Section, Ship Performance Division (3) Phone: 422-41-3049 Fax: 422-41-3053 E-mail:
Schedule	from 1990 to 1995 ( 5 year(s))
Record of Cooperation	Exchange of information(China, Germany, Russia), Accept Fellow(U.K.), Site visit(Russia)
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Evaluation of structural safety of a novel type high-speed vessel
Field Number(s)	4
Contact Point	(1) Name: Takeshi Miyamoto (2) Title: Chief of Dynamic Load and Response Section, Structure Mechanics Division (3) Phone: +81-422-41-3074 Fax: +81-422-41-3085 E-mail:
Schedule	from 1993 to 1996 ( 4 year(s))
Record of Cooperation	
Other Remarks	Data obtained from full-scale measurement of new type high-speed craft will be gathered.

KEY PROJECTS UNDERWAY	
Name of the Project	Experimental Study on Sloshing Loads of Middle-Sized Tankers with Double Hulls
Field Number(s)	4,8
Contact Point	(1) Name: Hiroyasu Takemoto (2) Title: Director of Structure Mechanics Division (3) Phone: +81-422-41-3068 Fax: +81-422-41-3085 E-mail:
Schedule	from 1992 to 1995 ( 4 year(s))
Record of Cooperation	
Other Remarks	Sloshing experiments with 2-D and 3-D models were carried out on about 700 conditions for two years. Fundamental study was finished last year and a paper will be published related to results of the study in late 1994. Further Study have been undertaken on the subject.

KEY PROJECTS UNDERWAY	
Name of the Project	Foghorn-Signal Processing for Distance Measurement
Field Number(s)	2
Contact Point	(1) Name: Kazuaki Yamada (2) Title: Chief of the Systems Analysis Section, Systems Engineering Division (3) Phone: +81-422-41-3132 Fax: +81-422-41-3126 E-mail:
Schedule	from 1992 to 1994 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Fundamental Technology Concerning with construction of Huge-scale Floating Structure
Field Number(s)	4,9
Contact Point	(1) Name: Yutaka Ohkawa (2) Title: Chief of Safety and Stability Section, Ocean Engineering Division (3) Phone: +81-422-41-3147 Fax: +81-422-41-3143 E-mail:
Schedule	from 1981 to 1986 ( 6 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Hydrodynamic Analysis of Marine Propellers for Ice breakers
Field Number(s)	2,4
Contact Point	(1) Name: Koichi Koyama (2) Title: Chief of Marine Dynamics Section, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3154 Fax: +81-422-41-3152 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	Japan-U.S. Science and Technology Agreement
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Impact Fracture Properties of Ship Basic Element
Field Number(s)	4
Contact Point	(1) Name: Masaaki Sakuma (2) Title: Senior Technical Officer, Structure Mechanics Division (3) Phone: +81-422-41-3078 Fax: +81-422-41-3085 E-mail:
Schedule	from 1992 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	The project will be finished 1995. Several paper were published on the subject.

KEY PROJECTS UNDERWAY	
Name of the Project	Impact Strength of Ferro-Cement Boat
Field Number(s)	4
Contact Point	(1) Name: Shigeru Kitamura (2) Title: Senior Technical Officer, Structure Mechanics Division (3) Phone: +81-422-41-3081 Fax: +81-422-41-3085 E-mail:
Schedule	from 1992 to 1995 ( 2 year(s))
Record of Cooperation	
Other Remarks	The project will be finished 1995. Several paper were published on the subject.

KEY PROJECTS UNDERWAY	
Name of the Project	Impact Strength of Fiber Reinforced Plastic Laminates for Ship Hull
Field Number(s)	4
Contact Point	(1) Name: Yuki Kobayashi (2) Title: Chief of Hybrid Structure Section, Structure Mechanics Division (3) Phone: +81-422-41-3079 Fax: +81-422-41-3085 E-mail:
Schedule	from 1994 to 1996 ( 3 year(s))
Record of Cooperation	
Other Remarks	Mechanical Properties of FRP Laminates under Impact Tension, Journal of the Society of Materials Science, JAPAN, Vol.43, No.486, pp.290-296, Mar. 1994

KEY PROJECTS UNDERWAY	
Name of the Project	Investigation of a capsizing accident of a large stern trawler
Field Number(s)	2,4
Contact Point	(1) Name: Makoto Kan (2) Title: Director of Ship Dynamics Division (3) Phone: 422-41-3054 Fax: 422-41-3056 E-mail:
Schedule	from 1995 to 1995 ( 1 year(s))
Record of Cooperation	
Other Remarks	English publications available



KEY PROJECTS UNDERWAY	
Name of the Project	Maintenance System of Offshore Structure
Field Number(s)	8,9
Contact Point	(1) Name: Masayoshi Arita (2) Title: Chief of Ice-proof Structure Section, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3155 Fax: +81-422-41-3152 E-mail:
Schedule	from 1992 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Optimization of Neutron Shielding Structures for Ceramics Shields
Field Number(s)	7
Contact Point	(1) Name: Kotaro Ueki (2) Title: Chief of Radioactive Materials Section, Nuclear Technology Division (3) Phone: 422-41-3137 Fax: 422-41-3136 E-mail:
Schedule	from 1993 to 1997 ( 5 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Physical and Chemical Characteristics of wave Breaking in Air-Sea Interface
Field Number(s)	4,6,8,9
Contact Point	(1) Name: Hiroshi Tomita (2) Title: Chief of wave Force Section, Ship Dynamics Division (3) Phone: 422-41-3061 Fax: 422-41-3056 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	Canada, France and Norway
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Radiation Safety with Transport of Low Level Radioactive Materials
Field Number(s)	7
Contact Point	(1) Name: Kotaro Ueki (2) Title: Chief of Radioactive Materials Section, Nuclear Technology Division (3) Phone: 422-41-3137 Fax: 422-41-3136 E-mail:
Schedule	from 1989 to 1994 ( 5 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Reduction of Oil Spill from Oil Tanker
Field Number(s)	8
Contact Point	(1) Name: Katsuji Yamaguchi (2) Title: Chief of Ship Equipment Section, Ship Equipment and Marine Environment Division (3) Phone: 422-41-3119 Fax: 422-41-3115 E-mail:
Schedule	from 1994 to 1996 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research for Reduction of CO2 Emission out of Power Plants
Field Number(s)	8
Contact Point	(1) Name: Susumu Kan (2) Title: Chief of Thermo Aerodynamics Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3095 Fax: +81-422-41-3101 E-mail:
Schedule	from 1991 to 1996 ( 6 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Exchanger Technology for Marine Use
Field Number(s)	2
Contact Point	(1) Name: Sadahiro Namie (2) Title: Chief of Steam Power Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3089 Fax: +81-422-41-3101 E-mail:
Schedule	from 1992 to 1996 ( 5 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Exhaust Emissions from Marine Diesel Engines
Field Number(s)	8
Contact Point	(1) Name: Masaaki Kikuchi (2) Title: Chief of Fuel and Lubricant Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3096 Fax: +81-422-41-3101 E-mail:
Schedule	from 1994 to 1996 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Failure Prediction of Diesel Engine with Artificial Intelligence
Field Number(s)	2,6
Contact Point	(1) Name: Masayoshi Numano (2) Title: Chief Research Officer, Power and Energy Engineering Division (3) Phone: +81-422-41-3095 Fax: +81-422-41-3101 E-mail:
Schedule	from 1990 to 1994 ( 5 year(s))
Record of Cooperation	Istituto Motori (Italia)
Other Remarks	Presentation at the meeting of 2nd International Workshop on Fluid Mechanics, Combustion and Reliability in Reciprocating Engines, Italy 1992.

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Hydrogen Gas Turbine
Field Number(s)	2,8
Contact Point	(1) Name: Katsuhide Hiraoka (2) Title: Chief of Advanced Engine Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3092 Fax: +81-422-41-3101 E-mail:
Schedule	from 1990 to 1994 ( 5 year(s))
Record of Cooperation	
Other Remarks	Presentation at the meeting of 10th World Hydrogen Energy Conference, Florida, USA. 1994

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Multi-Dimensional Measurement using Laser Interferometry for Combustion Diagnostics
Field Number(s)	8
Contact Point	(1) Name: Seishiro Sato (2) Title: Chief of Combustion Diagnostics Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3091 Fax: +81-422-41-3101 E-mail:
Schedule	from 1991 to 1996 ( 6 year(s))
Record of Cooperation	
Other Remarks	Presentation at the meeting of International Energy Agency (IEA) Executive Committee on Energy Conservation and Emission Reduction in Combustion, Baden, Switzerland 1993

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Performance of a Stack of Solid Oxide Fuel Cells
Field Number(s)	2,8
Contact Point	(1) Name: Takanao Kumakura (2) Title: Chief of Combustion and Heat Transfer Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3088 Fax: +81-422-41-3101 E-mail:
Schedule	from 1994 to 1997 ( 4 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Quantification of Combustion and Exhaust Emissions from Marine Diesel Engines
Field Number(s)	2,8
Contact Point	(1) Name: Keijiro Shiode (2) Title: Chief of Internal Combustion Engine Section, Power and Energy Engineering Division (3) Phone: +81-422-41-3096 Fax: +81-422-41-3101 E-mail:
Schedule	from 1991 to 1997 ( 7 year(s))
Record of Cooperation	
Other Remarks	Presentation at the meeting of 21th International Congress on Combustion Engine (CIMAC) London, UK 1993

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Stirling Engine Systems for Under-Water Vehicles
Field Number(s)	2
Contact Point	(1) Name: Shigeji Tsukahara (2) Title: Director of Power and Energy Engineering Division (3) Phone: +81-422-41-3086 Fax: +81-422-41-3101 E-mail:
Schedule	from 1991 to 1995 ( 5 year(s))
Record of Cooperation	
Other Remarks	Presentation at the meeting of 6th International Stirling Engine Conference, Eindhoven, The Netherlands 1993

KEY PROJECTS UNDERWAY	
Name of the Project	Research on Strength of Heat Affected Materials and Structures
Field Number(s)	4
Contact Point	(1) Name: Kazuyoshi Matsuoka (2) Title: Chief of Application Section, Materials and Processing Division (3) Phone: 422-41-3105 Fax: 422-41-3112 E-mail:
Schedule	from 1993 to 1996 ( 4 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on quantitative and intelligent nondestructive evaluation for materials and structures of high reliability
Field Number(s)	4
Contact Point	(1) Name: Kenichi Katsuyama (2) Title: Senior Technical Officer, Materials and Processing Division (3) Phone: 422-41-3109 Fax: 422-41-3112 E-mail:
Schedule	from 1994 to 1995 ( 2 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on the flow field around a ship in maneuvering motion
Field Number(s)	4
Contact Point	(1) Name: Koji Nonaka (2) Title: Chief of Maneuverability Section, Ship Dynamics Division (3) Phone: 422-41-3063 Fax: 422-41-5056 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Research on the manoeuvring motion of a ship in waves
Field Number(s)	4
Contact Point	(1) Name: Koji Nonaka (2) Title: Chief of Maneuverability Section, Ship Dynamics Division (3) Phone: 422-41-3063 Fax: 422-41-5056 E-mail:
Schedule	from 1991 to 1993 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Safety Assessment of High Speed Vessel Traffic Using Computer Simulation
Field Number(s)	2
Contact Point	(1) Name: Yasuyoshi Itoh (2) Title: Chief of Information Processing Section, Systems Engineering Division (3) Phone: 422-41-3235 Fax: 422-41-3126 E-mail:
Schedule	from 1991 to 1995 ( 5 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Study on Electromagnetic
Field Number(s)	2,4
Contact Point	(1) Name: Kenji Yamane (2) Title: Senior Technical Officer, Osaka Branch (3) Phone: 720-91-6272 Fax: 720-91-6274 E-mail:
Schedule	from 1993 to 1996 ( 3 year(s))
Record of Cooperation	
Other Remarks	Due to many semiconductor devices are installed to the ships, the problem of electromagnetic compatibility (EMC) has happened in the field of a digital control system. The concept of EMC which is defined as the ability of all electrical and electronic equipment to coexist without degradation of performance or environment, is very much applicable to all marine installation. Thus we investigate the actual condition on the electromagnetic environment in ships.

KEY PROJECTS UNDERWAY	
Name of the Project	Study on Ice Forces on a Structure in Ice Covered Sea
Field Number(s)	2,9
Contact Point	(1) Name: Koh Izumiyama (2) Title: Senior Technical Officer, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3154 Fax: +81-422-41-3152 E-mail:
Schedule	from 1992 to 1994 ( 3 year(s))
Record of Cooperation	Japan-Canada Science and Technology Agreement (exchange of experts)
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Study on Performance of Ice-breaking Patrol Ship
Field Number(s)	2,4,6
Contact Point	(1) Name: Koichi Koyama (2) Title: Chief of Marine Dynamics Section, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3154 Fax: +81-422-41-3152 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Study on Protection against Impact Force on Life-saving Appliances for ship
Field Number(s)	2,4
Contact Point	(1) Name: Kazuo Hitomi (2) Title: Chief of Ship Equipment Section, Osaka Branch (3) Phone: 720-91-6272 Fax: 720-91-6274 E-mail:
Schedule	from 1994 to 1997 ( 3 year(s))
Record of Cooperation	
Other Remarks	The purpose of this research is carried out a method of protection against impact force on the use of free fall lifeboat, estimation method of acceleration on the use of marine evacuation system and the relation between acceleration and height in order to improve the drop test of lifesaving equipment.

KEY PROJECTS UNDERWAY	
Name of the Project	Study on Reduction of Exhaust Gas Emissions from Marine Diesel Engine
Field Number(s)	4,8
Contact Point	(1) Name: Yasuo Miyagi (2) Title: Director of Materials and Processing Division (3) Phone: 422-41-3102 Fax: 422-41-3112 E-mail:
Schedule	from 1991 to 1995 ( 4 year(s))
Record of Cooperation	
Other Remarks	



KEY PROJECTS UNDERWAY	
Name of the Project	Study on Technology for Designs of Marine Articles by FEM Analysis
Field Number(s)	4
Contact Point	(1) Name: Michiaki Ikai (2) Title: Senior Technical Officer, Osaka Branch (3) Phone: 720-91-6272 Fax: 720-91-6274 E-mail:
Schedule	from 1994 to 1997 ( 3 year(s))
Record of Cooperation	
Other Remarks	It needs many kind of marine valves are redesign according to ISO regulation. We investigate the possibility to design marine valves by FEM analysis, and we design the ductile iron valves and the low temperature service valves.

KEY PROJECTS UNDERWAY	
Name of the Project	Study on a Research Vessel in Ice Covered Sea
Field Number(s)	4,8,9
Contact Point	(1) Name: Koh Izumiyama (2) Title: Senior Technical Officer, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3154 Fax: +81-422-41-3152 E-mail:
Schedule	from 1992 to 1994 ( 3 year(s))
Record of Cooperation	International Northern Sea Route Program (Joint project)
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Study on safety evaluation ship hull
Field Number(s)	2,4,6,8
Contact Point	(1) Name: Hiroshi Maenaka (2) Title: Chief of Strength Evaluation Section, Materials and Processing Division (3) Phone: 422-41-3104 Fax: 422-41-3112 E-mail:
Schedule	from 1990 to 1993 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Study on safety factor for design of FRP boat
Field Number(s)	2,4
Contact Point	(1) Name: Nagatoshi Hashimoto (2) Title: Director of Osaka Branch (3) Phone: 720-91-6272 Fax: 720-91-6274 E-mail:
Schedule	from 1994 to 1997 ( 3 year(s))
Record of Cooperation	
Other Remarks	The following tests are carried out; (1) strength test (including fatigue test) of specimens, which are taken out of FRP boats long-term used, and (2) strength test of FRP plates consisting of the same laminated constitution as the above FRP boats. As the result of these experiments, decrease of strength due to fatigue is investigated.

KEY PROJECTS UNDERWAY	
Name of the Project	Study on safety marine FRP in low temperature region
Field Number(s)	2,4
Contact Point	(1) Name: Akio Sakurai (2) Title: Senior Technical Officer, Arctic Vessel and Low Temperature Engineering Division (3) Phone: +81-422-41-3159 Fax: +81-422-41-3152 E-mail: NBG01147@niftyserve.or.jp
Schedule	from 1994 to 1997 ( 3 year(s))
Record of Cooperation	
Other Remarks	In order to estimate the safety of marine FRP in frozen area, we investigate the static and dynamic mechanical properties of specimens which are taken out of FRP ships long-term used. Virgin FRP plates consisting of same laminated constitution as the above FRP ships and hybrid FRP which are reinforced by carbon or aramid fiber are also added to specimens.

KEY PROJECTS UNDERWAY	
Name of the Project	Surf-riding of a Ship
Field Number(s)	2,4
Contact Point	(1) Name: Makoto Kan (2) Title: Director of Ship Dynamics Division (3) Phone: 422-41-3054 Fax: 422-41-3056 E-mail:
Schedule	from 1986 to 1990 ( 5 year(s))
Record of Cooperation	

Other Remarks	English publications available
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KEY PROJECTS UNDERWAY	
Name of the Project	Tribology of oxide ceramics at elevated temperatures
Field Number(s)	4
Contact Point	(1) Name: Tetsuya Senda (2) Title: Senior Technical Officer, Materials and Processing Division (3) Phone: 422-41-3106 Fax: 422-41-3112 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	The project is carried out in cooperation with CSIRO Australia under the auspices of the Japan-Australia Science and Technology Agreement.
Other Remarks	

Economies	Japan
Institute	Ministry of Transport Traffic Safety and Nuisance Research Institute
Field Number(s)	1,8
Overall Contact Point	(1) Name: Shigeru Mori (2) Title: Director (3) Phone: 0422-41-3207 Fax: 0422-41-3233 E-mail:
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	New Technologies control NOx Emission from Diesel Engines and their Applicability under Driving Conditions
Field Number(s)	1,8
Contact Point	(1) Name: Shigeru Mori (2) Title: Director (3) Phone: 0422-41-3207 Fax: 0422-41-3233 E-mail:
Schedule	from 1990 to 1994 ( 5 year(s))
Record of Cooperation	
Other Remarks	

Economies  
Rep.of Korea

Institute  
Korea Maritime Institute

Field Number(s)

(1) Name:  
Lee, Hoe-Seung

Overall Contact Point  
(2) Title:

(3) Phone:  
02-553-1533

Fax:

E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Establishment of Railroad Logistics Services System

Field Number(s)  
1

(1) Name:  
Chin Hyung-In.

Contact Point

(2) Title:

Senior Fellow, Director, Logistics Research Division

(3) Phone:

02-565-7095

Fax:

02-565-7095

E-mail:

Schedule

from

1996.3

to

1996.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Construction and Operation Plan of Kyung In Canal

Field Number(s)

5

(1) Name:

Chin Hyung-In.

Contact Point

(2) Title:  
Senior Fellow, Director, Logistics Research Division

(3) Phone:  
02-565-7095

Fax:  
02-565-7095

E-mail:

Schedule  
from  
1995.4  
to  
1996.6  
(

year(s))

Record of Cooperation

Other Remarks

Economies  
Rep.of Korea

Institute  
Korea Maritime Institute

Field Number(s)

(1) Name:  
Lee, Hoe-Seung

Overall Contact Point  
(2) Title:



(3) Phone:  
02-553-1533

Fax:

E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Establishment of Railroad Logistics Services System

Field Number(s)  
1

(1) Name:  
Chin Hyung-In.

Contact Point  
(2) Title:  
Senior Fellow, Director, Logistics Research Division

(3) Phone:  
02-565-7095

Fax:  
02-565-7095

E-mail:

Schedule  
from  
1996.3  
to  
1996.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Construction and Operation Plan of Kyung In Canal

Field Number(s)  
5

(1) Name:  
Chin Hyung-In.

Contact Point  
(2) Title:  
Senior Fellow, Director, Logistics Research Division

(3) Phone:  
02-565-7095

Fax:  
02-565-7095

E-mail:

Schedule  
from  
1995.4  
to  
1996.6  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Establishment of Port Logistics Services System

Field Number(s)  
5

(1) Name:  
Chin Hyung-In.

Contact Point  
(2) Title:  
Senior Fellow, Director, Logistics Research Division

(3) Phone:  
02-565-7095

Fax:  
02-565-7095

E-mail:

Schedule  
from

1996.6  
to  
1997.5  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Investment Priority for New Ports Development

Field Number(s)  
5

(1) Name:  
Lee, Jung - Ook

Contact Point  
(2) Title:  
Senior Fellow, Director, Logistics Research Division

(3) Phone:  
02-565-7093

Fax:  
02-565-7093

E-mail:

Schedule  
from  
1995.4

to  
1996.7  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Proposal for Private Investments in Gadok Container Terminal

Field Number(s)

5

(1) Name:

Lee, Jung - Ook

Contact Point

(2) Title:

Senior Fellow, Director, Logistics Research Division

(3) Phone:

02-565-7093

Fax:

02-565-7093

E-mail:

Schedule

from

1995.12

to

1996.7

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

Establishment of Port Logistics Services System

Field Number(s)

5

(1) Name:

Chin Hyung-In.

Contact Point

(2) Title:

Senior Fellow, Director, Logistics Research Division

(3) Phone:

02-565-7095

Fax:

02-565-7095

E-mail:

Schedule

from

1996.6

to

1997.5

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Investment Priority for New Ports Development

Field Number(s)  
5

(1) Name:  
Lee, Jung - Ook

Contact Point  
(2) Title:  
Senior Fellow, Director, Logistics Research Division

(3) Phone:  
02-565-7093

Fax:  
02-565-7093

E-mail:

Schedule  
from  
1995.4  
to  
1996.7  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Proposal for Private Investments in Gadok Container Terminal

Field Number(s)

5

(1) Name:

Lee, Jung - Ook

Contact Point

(2) Title:

Senior Fellow, Director, Logistics Research Division

(3) Phone:

02-565-7093

Fax:

02-565-7093

E-mail:

Schedule

from

1995.12

to

1996.7

(

year(s))



Record of Cooperation

Other Remarks

Economies  
Rep.of Korea

Institute  
The Korea Transport Institute

Field Number(s)

(1) Name:  
Dr. Soogil Young

Overall Contact Point  
(2) Title:

(3) Phone:  
2-538-1451

Fax:

E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Feasibility Study of the Air Cargo City Terminal in Seoul Metropolitan Area

Field Number(s)

1

(1) Name:

Sungwook Hong

Contact Point

(2) Title:

Director of Department of Freight and Air Transport Studies

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

95.5

to

96.5

(

1

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

Developing the GIS-T and its Applications for Urban Transport

Field Number(s)

1

(1) Name:

Seungjae Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

95.12

to

96.12

(

1

year(s))

Record of Cooperation

Other Remarks

Economies

Rep.of Korea

Institute

The Korea Transport Institute

Field Number(s)

(1) Name:  
Dr. Soogil Young

Overall Contact Point  
(2) Title:

(3) Phone:  
2-538-1451

Fax:

E-mail:

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Feasibility Study of the Air Cargo City Terminal in Seoul Metropolitan Area

Field Number(s)  
1

(1) Name:  
Sungwook Hong

Contact Point  
(2) Title:  
Director of Department of Freight and Air Transport Studies

(3) Phone:  
82-2-538-1459

Fax:  
82-2-538-1459

E-mail:

Schedule  
from  
95.5  
to  
96.5  
(  
1  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Developing the GIS-T and its Applications for Urban Transport

Field Number(s)  
1

(1) Name:  
Seungjae Lee

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-538-1392

Fax:  
82-2-538-1392

E-mail:

Schedule  
from  
95.12  
to  
96.12  
(  
1  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Estimation of the Special Travel Demand on National Holidays

Field Number(s)  
1

(1) Name:  
Seungjae Lee

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

96.5

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on Pusan's Transit Fare Structure

Field Number(s)

1

(1) Name:

Jongseok Kim

Contact Point

(2) Title:

Associate Research Ferrow

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

96.1

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on How to Utilize Electronic Technology for the Enhancement of the Transportation System

Field Number(s)

1

(1) Name:

Sanghyup Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391



E-mail:

Schedule

from

95.12

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Estimation of the Special Travel Demand on National Holidays

Field Number(s)

1

(1) Name:

Seungjae Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

96.5

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on Pusan's Transit Fare Structure

Field Number(s)

1

(1) Name:

Jongseok Kim

Contact Point

(2) Title:

Associate Research Ferrow

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

96.1

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on How to Utilize Electronic Technology for the Enhancement of the  
Transportation System

Field Number(s)

1

(1) Name:

Sanghyup Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

95.12

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on the Construction and Operation of the Information Center

Field Number(s)

1

(1) Name:

Sanghyup Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

96.1

to

96.12

(

1

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on the Feeder Network for the Seoul-Pusan High Speed Rail Line

Field Number(s)

1

(1) Name:

Kwangsuk Suh

Contact Point

(2) Title:

Associate Research Ferrow

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from  
95.12  
to  
96.3  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on the Interchange Spacing and Management for Improving the Functional Efficiency of Highway

Field Number(s)

1

(1) Name:

Yeonkyu Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from  
96.5  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on the Construction and Operation of the Information Center

Field Number(s)

1

(1) Name:

Sanghyup Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

96.1

to  
96.12  
(  
1  
year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
A Study on the Feeder Network for the Seoul-Pusan High Speed Rail Line

Field Number(s)  
1

(1) Name:  
Kwangsuk Suh

Contact Point  
(2) Title:  
Associate Research Ferrow

(3) Phone:  
82-2-538-1391

Fax:  
82-2-538-1391

E-mail:

Schedule  
from  
95.12  
to



96.3

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Study on the Interchange Spacing and Management for Improving the Functional Efficiency of Highway

Field Number(s)

1

(1) Name:

Yeonkyu Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

96.5

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan for the Construction and Operation of the Light-rail  
Transit in the Pusan Metropolitan Area

Field Number(s)

1

(1) Name:

Hanjoon Lee

Contact Point

(2) Title:

Associate Research Ferrow

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

95.12

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan for the Extention of Subway lines No. 1,2 in the Daegu Metropolitan Area

Field Number(s)

1

(1) Name:

Hwangbae Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.2

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan on the Construction and Operation of Light Rail Transit between Kimhae and Jangyoo

Field Number(s)

1

(1) Name:

Changkyun Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

95.12

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan for the Construction and Operation of the Light-rail  
Transit in the Pusan Metropolitan Area

Field Number(s)

1

(1) Name:

Hanjoon Lee

Contact Point

(2) Title:

Associate Research Ferrow

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

95.12

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan for the Extention of Subway lines No. 1,2 in the Daegu Metropolitan Area

Field Number(s)

1

(1) Name:

Hwangbae Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.2

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan on the Construction and Operation of Light Rail Transit between Kimhae and Jangyoo

Field Number(s)

1

(1) Name:

Changkyun Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

95.12

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Basic Plan to Construct and Operate the Bicycle Road System in Kimhae City

Field Number(s)

1

(1) Name:

Kyunghwan Park

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.2

to

96.12

(

year(s))



Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan for the Construction and Operation of Light Rail Transit in Youngin City

Field Number(s)

1

(1) Name:

Jaehak Oh

Contact Point

(2) Title:

Director of Urban Transport Studies

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.3

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project

A Study of the Transport Investment Appraisal Methods

Field Number(s)

1

(1) Name:

Changkyun Kim

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.2

to

96.7

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

A Basic Plan to Construct and Operate the Bicycle Road System in Kimhae City

Field Number(s)

1

(1) Name:

Kyunghwan Park

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.2

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

A Feasibility Study and Basic Plan for the Construction and Operation of Light Rail Transit in Youngin City

Field Number(s)

1

(1) Name:

Jaehak Oh

Contact Point

(2) Title:

Director of Urban Transport Studies

(3) Phone:

82-2-564-1820

Fax:

82-2-564-1820

E-mail:

Schedule

from

96.3

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
A Study of the Transport Investment Appraisal Methods

Field Number(s)  
1

(1) Name:  
Changkyun Kim

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-564-1820

Fax:  
82-2-564-1820

E-mail:

Schedule  
from  
96.2  
to  
96.7  
(

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

An Analysis of the Traffic Impact Assessment Report for 1995

Field Number(s)

1

(1) Name:

Dongsun Shin

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1820

Fax:

82-2-538-1820

E-mail:

Schedule

from

95.11

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

A Study for the Establishment of Coordinated Road Freight Transport System

Field Number(s)

1

(1) Name:

Hokyu Lim

Contact Point

(2) Title:

Senior Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.1

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

Strategic Issues of the Urban Freight Movement for Seoul Metropolitan Area

Field Number(s)

1

(1) Name:

Sungwook Hong

Contact Point

(2) Title:

Director of Freight and Air Transport Studies

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.2

to

96.12

(

year(s))

Record of Cooperation

Other Remarks



## KEY PROJECTS UNDERWAY

Name of the Project

An Analysis of the Traffic Impact Assessment Report for 1995

Field Number(s)

1

(1) Name:

Dongsun Shin

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1820

Fax:

82-2-538-1820

E-mail:

Schedule

from

95.11

to

96.11

(

year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project

A Study for the Establishment of Coordinated Road Freight Transport System

Field Number(s)

1

(1) Name:

Hokyu Lim

Contact Point

(2) Title:

Senior Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.1

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Strategic Issues of the Urban Freight Movement for Seoul Metropolitan Area

Field Number(s)  
1

(1) Name:  
Sungwook Hong

Contact Point  
(2) Title:  
Director of Freight and Air Transport Studies

(3) Phone:  
82-2-538-1459

Fax:  
82-2-538-1459

E-mail:

Schedule  
from  
96.2  
to  
96.12  
(  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Study on How to Improve the Passenger and Freight Fare System

Field Number(s)

1

(1) Name:

Jaelim Lee

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

95.12

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

A Study on How to Improve the Interchange Facilities and Toll Collection System of the Seoul Beltway

Field Number(s)

1

(1) Name:

Sigon Kim

Contact Point

(2) Title:

Director of Road and Rail Transport Studies

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

94.9

to

96.7

(

2

year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

A Strategic Planning Study of the Ho-Nam High Speed Rail Construction

Field Number(s)

1

(1) Name:

Kwangsuk Suh

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1391

Fax:

82-2-538-1391

E-mail:

Schedule

from

96.1

to

96.12

(

1

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

A Study on How to Improve the Passenger and Freight Fare System

Field Number(s)

1

(1) Name:  
Jaelim Lee

Contact Point  
(2) Title:  
Associate Research Fellow

(3) Phone:  
82-2-538-1391

Fax:  
82-2-538-1391

E-mail:

Schedule  
from  
95.12  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Study on How to Improve the Interchange Facilities and Toll Collection System of the  
Seoul Beltway

Field Number(s)  
1

(1) Name:  
Sigon Kim

Contact Point

(2) Title:  
Director of Road and Rail Transport Studies

(3) Phone:  
82-2-538-1391

Fax:  
82-2-538-1391

E-mail:

Schedule  
from  
94.9  
to  
96.7  
(  
2  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Strategy Planning Study of the Ho-Nam High Speed Rail Construction

Field Number(s)  
1



(1) Name:  
Kwangsuk Suh

Contact Point  
(2) Title:  
Associate Research Fellow

(3) Phone:  
82-2-538-1391

Fax:  
82-2-538-1391

E-mail:

Schedule  
from  
96.1  
to  
96.12  
(  
1  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Survey of the Urban Traveler Patterns in the Seoul Metropolitan Area

Field Number(s)  
1

(1) Name:

Jaehak Oh

Contact Point

(2) Title:  
Research Associate

(3) Phone:  
82-2-564-1820

Fax:  
82-2-564-1820

E-mail:

Schedule  
from  
95.5  
to  
96.3  
(  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Study for the Establishment of Coordinated Road Freight Transport System

Field Number(s)  
1

(1) Name:  
Hokyu Lim

Contact Point

(2) Title:

Senior Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.1

to

96.12

(

1

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

The First Nationwide Logistics Survey in Korea

Field Number(s)

1

(1) Name:

Ohkyoung Kwon

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-538-1459

Fax:  
82-2-538-1459

E-mail:

Schedule  
from  
96.4  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Survey of the Urban Traveler Patterns in the Seoul Metropolitan Area

Field Number(s)  
1

(1) Name:  
Jaehak Oh

Contact Point  
(2) Title:

Research Associate

(3) Phone:  
82-2-564-1820

Fax:  
82-2-564-1820

E-mail:

Schedule  
from  
95.5  
to  
96.3  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Study for the Establishment of Coordinated Road Freight Transport System

Field Number(s)  
1

(1) Name:  
Hokyu Lim

Contact Point  
(2) Title:  
Senior Research Ferrow

(3) Phone:  
82-2-538-1459

Fax:  
82-2-538-1459

E-mail:

Schedule  
from  
96.1  
to  
96.12  
(  
1  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
The First Nationwide Logistics Survey in Korea

Field Number(s)  
1

(1) Name:  
Ohkyoung Kwon

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-538-1459

Fax:  
82-2-538-1459

E-mail:

Schedule  
from  
96.4  
to  
96.12  
(  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Study on the Transport Service and Market Mechanism

Field Number(s)  
1

(1) Name:  
Sungsoon Yun

Contact Point  
(2) Title:  
Associate Research Fellow

(3) Phone:

82-2-538-2351

Fax:  
82-2-538-2351

E-mail:

Schedule  
from  
96.5  
to  
97.2  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Establishment of the Comprehensive Transportation DB(1)

Field Number(s)  
1

(1) Name:  
Sangyong Lee

Contact Point  
(2) Title:  
Director of International Transport Studies

(3) Phone:  
82-2-538-1392



Fax:  
82-2-538-1392

E-mail:

Schedule  
from  
96.1  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Infrastructure Development and Private Investment Conditions in Korea

Field Number(s)  
1

(1) Name:  
Sangyong Lee

Contact Point  
(2) Title:  
Director of International Transport Studies

(3) Phone:  
82-2-538-1392

Fax:  
82-2-538-1392

E-mail:

Schedule  
from  
96.6  
to  
96.7  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
A Study on the Transport Service and Market Mechanism

Field Number(s)  
1

(1) Name:  
Sungsoon Yun

Contact Point  
(2) Title:  
Associate Research Fellow

(3) Phone:  
82-2-538-2351

Fax:

82-2-538-2351

E-mail:

Schedule

from

96.5

to

97.2

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Establishment of the Comprehensive Transportation DB(1)

Field Number(s)

1

(1) Name:

Sangyong Lee

Contact Point

(2) Title:

Director of International Transport Studies

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

96.1

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Infrastructure Development and Private Investment Conditions in Korea

Field Number(s)

1

(1) Name:

Sangyong Lee

Contact Point

(2) Title:

Director of International Transport Studies

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule  
from  
96.6  
to  
96.7  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Standard Guidelines on the Economic Feasibility Study for Urban Railway Projects

Field Number(s)  
1

(1) Name:  
Sangyong Lee

Contact Point  
(2) Title:  
Director of International Transport Studies

(3) Phone:  
82-2-538-1392

Fax:  
82-2-538-1392

E-mail:

Schedule

from

96.4

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Strategies to Promote Incheon International Airport as a Regional Hub in Northeast Asia

Field Number(s)

1

(1) Name:

Jong Hur

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.1

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Improving Airside Operations at Kimpo International Airport

Field Number(s)

3

(1) Name:

Yonghwa Park

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule  
from  
96.1  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Standard Guidelines on the Economic Feasibility Study for Urban Railway Projects

Field Number(s)  
1

(1) Name:  
Sangyong Lee

Contact Point  
(2) Title:  
Director of International Transport Studies

(3) Phone:  
82-2-538-1392

Fax:  
82-2-538-1392

E-mail:

Schedule  
from



96.4  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Strategies to Promote Incheon International Airport as a Regional Hub in Northeast Asia

Field Number(s)

1

(1) Name:

Jong Hur

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.1

to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Improving Airside Operations at Kimpo International Airport

Field Number(s)  
3

(1) Name:  
Yonghwa Park

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-538-1459

Fax:  
82-2-538-1459

E-mail:

Schedule  
from  
96.1  
to

96.12

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

The Proposals for the Operational Plans of the Incheon International Airport

Field Number(s)

3

(1) Name:

Jong Hur

Contact Point

(2) Title:

Associate Research Ferrow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.4

to

96.7

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

Forecasting the Air Transportation Demands for the Year 2010

Field Number(s)

3

(1) Name:

Jaekil Lee

Contact Point

(2) Title:

Research Associate

(3) Phone:

82-2-538-1392

Fax:

82-2-538-1392

E-mail:

Schedule

from

96.4

to

96.12

(

year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project

Strategies Towards the Liberalization of the East Asian Aviation Market

Field Number(s)

3

(1) Name:

Jong Hur

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

95.12

to

96.12

(

1

year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project

The Proposals for the Operational Plans of the Incheon International Airport

Field Number(s)

3

(1) Name:

Jong Hur

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

96.4

to

96.7

(

year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Forecasting the Air Transportation Demands for the Year 2010

Field Number(s)  
3

(1) Name:  
Jaekil Lee

Contact Point  
(2) Title:  
Research Associate

(3) Phone:  
82-2-538-1392

Fax:  
82-2-538-1392

E-mail:

Schedule  
from  
96.4  
to  
96.12  
(

year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Strategies Towards the Liberalization of the East Asian Aviation Market

Field Number(s)

3

(1) Name:

Jong Hur

Contact Point

(2) Title:

Associate Research Fellow

(3) Phone:

82-2-538-1459

Fax:

82-2-538-1459

E-mail:

Schedule

from

95.12

to

96.12

(

1

year(s))

Record of Cooperation





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HeaderDocInfoOpt□H  
HeaderPageNumberMode  
HeaderPageNumberMode□G  
OverlayMode  
OverlayMode□K  
PageNUp□H  
ValidCPLLPP  
ValidCPLLPP□K  
ViewGridì  
69.3 pt,4.1 pt  
69.3 pt,4.1 pt  
64.5 pt,-0.7 pt  
64.5 pt,-0.7 pt  
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NPDL2MS  
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Attachment A  
Root Entry  
WordDocument  
WordDocument  
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SummaryInformation  
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Word.Document.6  
Attachment A  
Microsoft Word for Windows 95

DocumentSummaryInformation  
DocumentSummaryInformation  
Attachment A  
Attachment A

Economies	Mexico
Institute	Engineering Institute National University of Mexico
Field Number(s)	1,2,3,6,8
Overall Contact Point	(1) Name: Dr.Jose Luis Fernandez (2) Title: Director of the Engineering Institute (3) Phone: 5-6-22-34-23 Fax: 5-6-16-28-34 E-mail: jlf@pumas.iingen.unam.mx
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Confiability of the operation of the hydraulic system cutzamala
Field Number(s)	2
Contact Point	(1) Name: Oysel Gelman (2) Title: Researcher (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-84 E-mail:
Schedule	from 1992 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Environmental and energy diagnosis in the institute of engineering
Field Number(s)	8
Contact Point	(1) Name: Luis Rodriguez Viqueira (2) Title: Engineer (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-84 E-mail:
Schedule	from 1992 to 1993 ( 1 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Highway projects appraisal
Field Number(s)	1
Contact Point	(1) Name: Roberto Magallanes (2) Title: Researcher (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-84 E-mail: rmn@pumas.iingen.unam.mx
Schedule	from 1992 to 1994 ( 2 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Logistics and accessibility to shopping centers in the metropolitan area of Mexico City
Field Number(s)	1
Contact Point	(1) Name: Dr. Juan Pablo Antun (2) Title: Coordinator of systems engineering (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	Project number 4115

KEY PROJECTS UNDERWAY	
Name of the Project	Regional effects of the economic opening and transport demand
Field Number(s)	1,2,3
Contact Point	(1) Name: Dr. Juan Pablo Antun (2) Title: Coordinator of systems engineering (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	Project number 2125

KEY PROJECTS UNDERWAY	
Name of the Project	Regional impacts of the economic opening and development of the Mexican transport system
Field Number(s)	1,2,3
Contact Point	(1) Name: Dr. Juan Pablo Antun (2) Title: Coordinator of systems engineering (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	Project number 4108

KEY PROJECTS UNDERWAY	
Name of the Project	Scenarios for logistic platforms supports in metropolitan areas
Field Number(s)	1
Contact Point	(1) Name: Dr. Juan Pablo Antun (2) Title: Coordinator of systems engineering (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	Project number 4119

KEY PROJECTS UNDERWAY	
Name of the Project	Strategic planning of distribution and collection routes with capacity restrictions
Field Number(s)	1
Contact Point	(1) Name: Dr. Juan Pablo Antun (2) Title: Coordinator of systems engineering (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	Project number 4116

KEY PROJECTS UNDERWAY	
Name of the Project	Structural design of asphalt pavements
Field Number(s)	1
Contact Point	(1) Name: Santiago Corro (2) Title: Researcher (3) Phone: 5-5-50-03-88 Fax: 5-6-17-07-89 E-mail:
Schedule	from 1992 to 1994 ( 2 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Transport systems and metropolitan territorial structures: distribution centers and cooperative logistics of enterprises in the central region
Field Number(s)	1
Contact Point	(1) Name: Dr. Juan Pablo Antun (2) Title: Coordinator of systems engineering (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from 1993 to 1995 ( 3 year(s))
Record of Cooperation	
Other Remarks	Project number 3111

KEY PROJECTS UNDERWAY	
Name of the Project	Properties deterioration of the concrete subject to cycles of compression load.
Field Number(s)	1
Contact Point	(1) Name: Carlos J. Mendoza (2) Title: Researcher (3) Phone: 5-6-22-81-32/37 Fax: 5-6-16-15-14 E-mail:
Schedule	from to 1992 ( year(s))
Record of Cooperation	
Other Remarks	Project number 538

KEY PROJECTS UNDERWAY	
Name of the Project	Behavior of cohesive compacted soils
Field Number(s)	1,
Contact Point	(1) Name: Jesus Alberro (2) Title: Researcher (3) Phone: 5-5-50-03-88 Fax: 5-6-17-07-89 E-mail:
Schedule	from to 1985 ( year(s))
Record of Cooperation	
Other Remarks	Project number 493

KEY PROJECTS UNDERWAY	
Name of the Project	Probabilistic analysis of the seismic answer of structures on several supports in soft soils
Field Number(s)	1
Contact Point	(1) Name: Luis Esteva (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1980 (            year(s))
Record of Cooperation	
Other Remarks	Project number 432

KEY PROJECTS UNDERWAY	
Name of the Project	Experimental study of diverse type of pavement. Mexicali airport
Field Number(s)	3
Contact Point	(1) Name: Miguel Madinaveitia (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1978 (            year(s))
Record of Cooperation	
Other Remarks	Project number 411

KEY PROJECTS UNDERWAY	
Name of the Project	Pavements of simple concrete. Structural resistance
Field Number(s)	1, 3
Contact Point	(1) Name: Miguel Madinaveitia (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1977 (            year(s))
Record of Cooperation	
Other Remarks	Project number 399



KEY PROJECTS UNDERWAY	
Name of the Project	Efforts analysis of the Tlautla bridge under the action of gravitational loads
Field Number(s)	1
Contact Point	(1) Name: Luis A. Ferrer (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1974 (            year(s))
Record of Cooperation	
Other Remarks	Project number 341

KEY PROJECTS UNDERWAY	
Name of the Project	Redistribution of flexionant moments and reaction in hyperstatic structures of reinforced concrete
Field Number(s)	1
Contact Point	(1) Name: Neftalí Rodríguez Cuevas (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1973 (            year(s))
Record of Cooperation	
Other Remarks	Project number 311

KEY PROJECTS UNDERWAY	
Name of the Project	Effect of the wind in flexible bridges. Study on model of Metlac and Fernando Espinosa Bridges
Field Number(s)	1
Contact Point	(1) Name: Roberto Meli (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1969 (            year(s))
Record of Cooperation	
Other Remarks	Project number 206

KEY PROJECTS UNDERWAY	
Name of the Project	Rigid-plastic plate subjected to a moving load
Field Number(s)	1
Contact Point	(1) Name: Joanna Sokol-Supel (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1980 (              year(s))
Record of Cooperation	
Other Remarks	Project number E-21

KEY PROJECTS UNDERWAY	
Name of the Project	Filtration forces and hydraulic breaking
Field Number(s)	1
Contact Point	(1) Name: Jesus Alberro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1990 (              year(s))
Record of Cooperation	
Other Remarks	Project number 528

KEY PROJECTS UNDERWAY	
Name of the Project	Effect of the flow of water in tunnels contour
Field Number(s)	1
Contact Point	(1) Name: Jesus Alberro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1989 (              year(s))
Record of Cooperation	
Other Remarks	Project number 517

KEY PROJECTS UNDERWAY	
Name of the Project	Displacements and efforts in a elastoplastic semi-infinite medium upon digging a circular tunnel
Field Number(s)	1
Contact Point	(1) Name: Jesus Alberro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1988 (              year(s))
Record of Cooperation	
Other Remarks	Project number 516

KEY PROJECTS UNDERWAY	
Name of the Project	Rock pressures in tunnels and interaction rock-coating
Field Number(s)	1
Contact Point	(1) Name: Jesus Alberro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1983 (              year(s))
Record of Cooperation	
Other Remarks	Project number 468

KEY PROJECTS UNDERWAY	
Name of the Project	The concept of preconsolidation of soils
Field Number(s)	1
Contact Point	(1) Name: Ismael Herrera (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1976 (              year(s))
Record of Cooperation	
Other Remarks	Project number 363

KEY PROJECTS UNDERWAY	
Name of the Project	Optimum design in treatment of soft soils with vertical drainage of sand
Field Number(s)	1
Contact Point	(1) Name: Sergio W. Covarrubias (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1972 (            year(s))
Record of Cooperation	
Other Remarks	Project number 302

KEY PROJECTS UNDERWAY	
Name of the Project	Compaction of clayish soils. Mechanical properties of compacted clayish soils
Field Number(s)	
Contact Point	(1) Name: Raul J Mersal (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1968 (            year(s))
Record of Cooperation	
Other Remarks	Project number 187

KEY PROJECTS UNDERWAY	
Name of the Project	Dynamic behavior of not cohesive embankment models
Field Number(s)	1
Contact Point	(1) Name: Jorge I. Bustamante (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1965 (            year(s))
Record of Cooperation	
Other Remarks	Project number 114

KEY PROJECTS UNDERWAY	
Name of the Project	Compact conditions, states variables and engineering properties of compacted clay.
Field Number(s)	1
Contact Point	(1) Name: Daniel Resendiz (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1980 (            year(s))
Record of Cooperation	
Other Remarks	Project number E-44

KEY PROJECTS UNDERWAY	
Name of the Project	Soil-structure interaction for footing foundations
Field Number(s)	1
Contact Point	(1) Name: Andrew W. Dawson (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1977 (            year(s))
Record of Cooperation	
Other Remarks	Project number E-28

KEY PROJECTS UNDERWAY	
Name of the Project	Submerged breakwater. Experimental study.
Field Number(s)	2
Contact Point	(1) Name: Manuel Garcia (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1988 (            year(s))
Record of Cooperation	
Other Remarks	Project number 523

KEY PROJECTS UNDERWAY	
Name of the Project	Hydrodynamic analysis of structures and maritime vehicles.
Field Number(s)	2
Contact Point	(1) Name: J. L. Sanchez Bribiesca (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1981 (              year(s))
Record of Cooperation	
Other Remarks	Project number 446

KEY PROJECTS UNDERWAY	
Name of the Project	Roads and airports drainage
Field Number(s)	1,3
Contact Point	(1) Name: Gilberto Sotelo (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1973 (              year(s))
Record of Cooperation	
Other Remarks	Project number 315

KEY PROJECTS UNDERWAY	
Name of the Project	Hydraulic model study of the crossing of Mexico-Queretaro highway with Tepeji river
Field Number(s)	1
Contact Point	(1) Name: Carlos Cruickshank (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1970 (              year(s))
Record of Cooperation	
Other Remarks	Project number 268

KEY PROJECTS UNDERWAY	
Name of the Project	Erosion in concrete caused by high speed flow
Field Number(s)	1
Contact Point	(1) Name: Gabriel Echavez (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1969 (            year(s))
Record of Cooperation	
Other Remarks	Project number 226

KEY PROJECTS UNDERWAY	
Name of the Project	A contribution to the study of the local undermining in bridges piles
Field Number(s)	1
Contact Point	(1) Name: Jose a. Maza (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1964 (            year(s))
Record of Cooperation	
Other Remarks	Project number 84

KEY PROJECTS UNDERWAY	
Name of the Project	Introduction to marine hydrodynamics.
Field Number(s)	9
Contact Point	(1) Name: J. L. Bribiesca (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1978 (            year(s))
Record of Cooperation	
Other Remarks	Project number D-13

KEY PROJECTS UNDERWAY	
Name of the Project	Valuation of maximum entropy in urban transport models
Field Number(s)	
Contact Point	(1) Name: Servio T. Guillen (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1989 (            year(s))
Record of Cooperation	
Other Remarks	Project number 524

KEY PROJECTS UNDERWAY	
Name of the Project	Use of models in planning transport infrastructure
Field Number(s)	1,5,3
Contact Point	(1) Name: Enrique Diaz (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1984 (            year(s))
Record of Cooperation	
Other Remarks	Project number 487

KEY PROJECTS UNDERWAY	
Name of the Project	Infrastructure works like factor for the rural development
Field Number(s)	1
Contact Point	(1) Name: Jorge Elizondo (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1984 (            year(s))
Record of Cooperation	
Other Remarks	Project number 487



KEY PROJECTS UNDERWAY	
Name of the Project	Social indirect cost of road investments: the foreign component
Field Number(s)	1
Contact Point	(1) Name: Felipe Lara (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1982 (            year(s))
Record of Cooperation	
Other Remarks	Project number 460

KEY PROJECTS UNDERWAY	
Name of the Project	Optimum of the social direct cost in work concepts for rural roads
Field Number(s)	1
Contact Point	(1) Name: Felipe Lara (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1982 (            year(s))
Record of Cooperation	
Other Remarks	Project number 447

KEY PROJECTS UNDERWAY	
Name of the Project	Atmospheric contamination and their relationship with the vehicles flow in Mexico city
Field Number(s)	1
Contact Point	(1) Name: Leonel Corona (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1969 (            year(s))
Record of Cooperation	
Other Remarks	Project number 227

KEY PROJECTS UNDERWAY	
Name of the Project	System for drop emission in automobiles by means a continuous converter of pair of mechanical type
Field Number(s)	1
Contact Point	(1) Name: Enrique Chicurel (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1972 (            year(s))
Record of Cooperation	
Other Remarks	Project number 303

KEY PROJECTS UNDERWAY	
Name of the Project	Bibliography about maves movemet produced by seisms
Field Number(s)	5
Contact Point	(1) Name: Jorge Bustamante (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1964 (            year(s))
Record of Cooperation	
Other Remarks	Project number 110

KEY PROJECTS UNDERWAY	
Name of the Project	Instructive for structural design of flexible pavements for highways
Field Number(s)	1
Contact Point	(1) Name: Santiago Corro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1981 (            year(s))
Record of Cooperation	
Other Remarks	Project number 211

KEY PROJECTS UNDERWAY	
Name of the Project	Operation of vehicles in slopes
Field Number(s)	1
Contact Point	(1) Name: Roberto Magallanes (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1978 (            year(s))
Record of Cooperation	
Other Remarks	Project number 413

KEY PROJECTS UNDERWAY	
Name of the Project	Vehicles sampling with dynamic weighers
Field Number(s)	1
Contact Point	(1) Name: Roberto Magallanes (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1977 (            year(s))
Record of Cooperation	
Other Remarks	Project number

KEY PROJECTS UNDERWAY	
Name of the Project	Highway structural design with flexible pavement
Field Number(s)	1
Contact Point	(1) Name: Santiago Corro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1974 (            year(s))
Record of Cooperation	
Other Remarks	Project number 325

KEY PROJECTS UNDERWAY	
Name of the Project	Project of geometric specification for low cost roads.
Field Number(s)	1
Contact Point	(1) Name: Roberto Magallanes (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1972 (            year(s))
Record of Cooperation	
Other Remarks	Project number 304

KEY PROJECTS UNDERWAY	
Name of the Project	Full scale testing applied to pavement design
Field Number(s)	1
Contact Point	(1) Name: Santiago Corro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1983 (            year(s))
Record of Cooperation	
Other Remarks	Project number E-52

KEY PROJECTS UNDERWAY	
Name of the Project	Full scale testing applied to pavement design
Field Number(s)	1
Contact Point	(1) Name: Santiago Corro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1983 (            year(s))
Record of Cooperation	
Other Remarks	Project number E-52

KEY PROJECTS UNDERWAY	
Name of the Project	Recomendations for the structural design of flexible pavements
Field Number(s)	1
Contact Point	(1) Name: Santiago Corro (2) Title: (3) Phone: 5-6-22-35-00 Fax: 5-6-17-07-89 E-mail:
Schedule	from                      to 1978 (              year(s))
Record of Cooperation	
Other Remarks	Project number E-35

Economies	Mexico
Institute	Mexican Transport Institute
Field Number(s)	1,2,3,8
Overall Contact Point	(1) Name: Ing. Alfonso Rico (2) Title: Coordinator of Operations (3) Phone: 42-16-97-77 Fax: 42-15-96-71 E-mail: buzon@imt.mx
Other Remarks	The institute is a research and development agency of the Secretary of Communications and Transport of the Mexican Government.

KEY PROJECTS UNDERWAY	
Name of the Project	Analysis of freight circulating in the road and rail networks in order to select the optimal mode for each type of freight.
Field Number(s)	1
Contact Point	(1) Name: Ing. Alfonso Rico (2) Title: Coordinator of operations (3) Phone: 42-16-63-25 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from 1994 to 1995 ( 1 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Connectivity analysis of the main maritime and border ports in order to improve their integration to the road and rail networks
Field Number(s)	1,2
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Head of the division of regional analysis (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerebereg@imt.mx
Schedule	from 1991 to ( year(s))
Record of Cooperation	
Other Remarks	Several case studies are finished and some others are underway which makes it a semi-permanent study.

KEY PROJECTS UNDERWAY	
Name of the Project	Development of a computer software to calculate maintenance actions of different intensity and time horizon
Field Number(s)	1
Contact Point	(1) Name: Ing. Roberto Aguerrebere (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from 1990 to 1993 ( 3 year(s))
Record of Cooperation	
Other Remarks	This development is a tool of the national highway maintenance strategy.

KEY PROJECTS UNDERWAY	
Name of the Project	Dynamic analysis of bridges
Field Number(s)	1
Contact Point	(1) Name: Ing. Miguel Barousse (2) Title: Head of the computer division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Miguel.Borousse@imt.mx
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Effect of the slope and curvature in the operational costs and speed of the main truck types circulating in the Mexican road network
Field Number(s)	1
Contact Point	(1) Name: Ing. Roberto Aguerrebere (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from 1990 to 1992 ( 2 year(s))
Record of Cooperation	
Other Remarks	This study is a tool of the national highway maintenance strategy.

KEY PROJECTS UNDERWAY	
Name of the Project	Field Studies to determine weight, dimensions and average value of the load of the vehicles circulating in the Mexican road network
Field Number(s)	1
Contact Point	(1) Name: Ing. Alfonso Rico / Dr. Alberto Mendoza (2) Title: Coordinator of operations/Head of the Logistic studies division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from 1990 to ( year(s))
Record of Cooperation	
Other Remarks	The project is considered permanent in order to study new stations every year to continuously improve the knowledge of traffic on the road network.

KEY PROJECTS UNDERWAY	
Name of the Project	General transport study of the southeast region of Mexico
Field Number(s)	1,2,3
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinador of integrated transporte (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Tristan.Ruiz@imt.mx
Schedule	from 1994 to 1996 ( 2 year(s))
Record of Cooperation	
Other Remarks	This is a comprehensive study to determine the needs and possibilities to accelerate the development in a depressed region.

KEY PROJECTS UNDERWAY	
Name of the Project	Road-vehicle interaction
Field Number(s)	1
Contact Point	(1) Name: Dr. Alejandro Lozano (2) Title: Coordinator of transport equipment (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Alejandro.Lozano@imt.mx
Schedule	from 1994 to 1996 ( 2 year(s))
Record of Cooperation	
Other Remarks	Permanent dealing with different issues of the subject



KEY PROJECTS UNDERWAY	
Name of the Project	National strategy for highway maintenance
Field Number(s)	1
Contact Point	(1) Name: Ing. Alfonso Rico (2) Title: Coordinator of operations (3) Phone: 42-16-63-25 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from 1991 to 1995 ( 4 year(s))
Record of Cooperation	
Other Remarks	This project is the conjunction of several studies. It gives an overall strategy from the technical, economical and managerial points of view.

KEY PROJECTS UNDERWAY	
Name of the Project	Pavement management system
Field Number(s)	1
Contact Point	(1) Name: Ing. Alfonso Rico (2) Title: Coordinator of operations (3) Phone: 42-16-63-25 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from 1990 to 1995 ( 5 year(s))
Record of Cooperation	
Other Remarks	The system was finished in 1992; its software is continuously being improved at the present time.

KEY PROJECTS UNDERWAY	
Name of the Project	Studies related with the saving of energy in the transport sector
Field Number(s)	8
Contact Point	(1) Name: Mercedes Rafael (2) Title: Head of the energy saving division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Mercedes.Rafael@imt.mx
Schedule	from 1993 to 1996 ( 3 year(s))
Record of Cooperation	
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Vehicle cycle analysis
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1988 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.4

KEY PROJECTS UNDERWAY	
Name of the Project	Analysis of three groups of methods for the study of intra and interregional flows balance from the freight and passengers circulation perspective's
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated Transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1989 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.9

KEY PROJECTS UNDERWAY	
Name of the Project	Methodology for freight transport corridors analysis
Field Number(s)	1,2,3
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1990 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.13

KEY PROJECTS UNDERWAY	
Name of the Project	Road desing factors and road vehicle operating costs
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1991 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.20

KEY PROJECTS UNDERWAY	
Name of the Project	Freight transport integration as an element of the industry and nations competitiveness
Field Number(s)	
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1990 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.24.

KEY PROJECTS UNDERWAY	
Name of the Project	Surface conditions and vehicle operating costs in roads
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1991 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.30

KEY PROJECTS UNDERWAY	
Name of the Project	Transport situation of some products of Mexican foreign trade
Field Number(s)	1,2,3
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from _____ to 1992 ( _____ year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.36

KEY PROJECTS UNDERWAY	
Name of the Project	Competitiveness of the Mexican interstate common motor carriers from the North American Free Trade Agreement (NAFTA) perspective.
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from _____ to 1992 ( _____ year(s))
Record of Cooperation	
Other Remarks	Technical Publication No 37.

KEY PROJECTS UNDERWAY	
Name of the Project	Recent evolution and trends of interstate common carriers in U.S.A.
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from _____ to 1993 ( _____ year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.45

KEY PROJECTS UNDERWAY	
Name of the Project	Economical evaluation of govern gradient in roads.
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1995 (              year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.54

KEY PROJECTS UNDERWAY	
Name of the Project	Economic module of Mexican Pavement Management System: users manual
Field Number(s)	1
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1993 (              year(s))
Record of Cooperation	
Other Remarks	Technical Document No.9

KEY PROJECTS UNDERWAY	
Name of the Project	Competitive increases in freight transportation: worldwide carriers strategies.
Field Number(s)	1,2,3
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreberere@imt.mx
Schedule	from                      to 1992 (              year(s))
Record of Cooperation	
Other Remarks	Technical Document No.10

KEY PROJECTS UNDERWAY	
Name of the Project	Freight transportation from cartel to competition
Field Number(s)	1
Contact Point	(1) Name: Rafael Izquierdo Gonzalez (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail:
Schedule	from                      to 1995 (              year(s))
Record of Cooperation	
Other Remarks	Technical Document No.12

KEY PROJECTS UNDERWAY	
Name of the Project	Transport and trade flows
Field Number(s)	1,2,3
Contact Point	(1) Name: Claude Cortez P. (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail:
Schedule	from                      to 1995 (              year(s))
Record of Cooperation	
Other Remarks	Technical Document No.13

KEY PROJECTS UNDERWAY	
Name of the Project	A methodology to study logistic services offer and transport costs.
Field Number(s)	1,2,3
Contact Point	(1) Name: Roberto Aguerrebere Salido (2) Title: Coordinator of integrated transport (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Roberto.Aguerreber@imt.mx
Schedule	from                      to 1995 (              year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.58

KEY PROJECTS UNDERWAY	
Name of the Project	Trade exchange between Mexico and Canada and their transport corridors
Field Number(s)	1,2,3
Contact Point	(1) Name: Mario Salgado Viveros (2) Title: Researcher (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Mario.Salgado@imt.mx
Schedule	from _____ to 1995 ( _____ year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.66

KEY PROJECTS UNDERWAY	
Name of the Project	Structural effects of economic opening in freight motorcarrier industry
Field Number(s)	1
Contact Point	(1) Name: Oscar Armando Rico Galeana (2) Title: Researcher (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Oscar.Rico@imt.mx
Schedule	from _____ to 1995 ( _____ year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.69.

KEY PROJECTS UNDERWAY	
Name of the Project	Analyses of the unit damages coefficients correspondinf to th Mexican highway network
Field Number(s)	1
Contact Point	(1) Name: Alfonso Rico Rodriguez (2) Title: Coordinator of operations (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from _____ to 1988 ( _____ year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.5

KEY PROJECTS UNDERWAY	
Name of the Project	Methodology for the analysis of freight transport corridors
Field Number(s)	1
Contact Point	(1) Name: Alfonso Rico Rodriguez (2) Title: Coordinator of operations (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1990 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.13

KEY PROJECTS UNDERWAY	
Name of the Project	Estimation of the traffic demand in roads combining origin-destiny studies with traffic counting actions
Field Number(s)	1
Contact Point	(1) Name: Tristan Ruiz Lang (2) Title: Head of the special studies division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1991 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.25

KEY PROJECTS UNDERWAY	
Name of the Project	Geographycal Information Systems (GIS) and transport
Field Number(s)	1
Contact Point	(1) Name: Miguel Angel Backhoff P. (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Miguel.Backhoff@imt.mx
Schedule	from                      to 1992 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.32



KEY PROJECTS UNDERWAY	
Name of the Project	Strategies to conduct origin-destiny studies
Field Number(s)	1
Contact Point	(1) Name: Tristan Ruiz Lang (2) Title: Head of special studies division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Buzon@imt.mx
Schedule	from                      to                      (                      year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.48

KEY PROJECTS UNDERWAY	
Name of the Project	Four contributions for the quantitative appraisal of transport activities
Field Number(s)	1
Contact Point	(1) Name: Alfonso Rico Rodriguez (2) Title: Coordinator of operations (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1994 (                      year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.55

KEY PROJECTS UNDERWAY	
Name of the Project	The integration of the optimal design and manufacture on cam mechanisms.
Field Number(s)	1
Contact Point	(1) Name: Alejandro Lozano Guzman (2) Title: Coordinator of transport equipment (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Alejandro.Lozano @imt.mx
Schedule	from                      to 1989 (                      year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.7

KEY PROJECTS UNDERWAY	
Name of the Project	Energy diagnostics in the transport sector
Field Number(s)	1
Contact Point	(1) Name: Jorge Antonio Ramirez (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Jorge.Ramirez@imt.mx
Schedule	from                      to 1991 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.29

KEY PROJECTS UNDERWAY	
Name of the Project	Comparative measurements of emission and fuel consumption for change of type of gasoline on vehicles without catalytic converters
Field Number(s)	1
Contact Point	(1) Name: Jorge Antonio Ramirez (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Jorge.Ramirez@imt.mx
Schedule	from                      to 1993 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.40

KEY PROJECTS UNDERWAY	
Name of the Project	Antipolluting devices for internal combustion engines
Field Number(s)	1
Contact Point	(1) Name: Jorge Antonio Ramirez (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Jorge.Ramirez@imt.mx
Schedule	from                      to 1993 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.43

KEY PROJECTS UNDERWAY	
Name of the Project	Compendium of standars for the equipment of merchant vessels
Field Number(s)	4
Contact Point	(1) Name: Carlos Guzman (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Carlos.Guzman@imt.mx
Schedule	from                      to 1994 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.50

KEY PROJECTS UNDERWAY	
Name of the Project	Research methodology for road engineers
Field Number(s)	1,2,3
Contact Point	(1) Name: Tristan Ruiz Lang (2) Title: Head of special studies division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1990 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.12

KEY PROJECTS UNDERWAY	
Name of the Project	Mathematical Models for trip distribution
Field Number(s)	1
Contact Point	(1) Name: Tristan Ruiz Lang (2) Title: Head of special studies division (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1991 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.31

KEY PROJECTS UNDERWAY	
Name of the Project	Development of design guidelines for climbing lanes on two-lane roads.
Field Number(s)	1
Contact Point	(1) Name: Alberto Mendoza Diaz (2) Title: Coordinator of infraestructure (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Alberto.Mendoza@imt.mx
Schedule	from                      to                      (                      year(s))
Record of Cooperation	
Other Remarks	Technical Publications Nos. 26, 42, 44, 46 and 59

KEY PROJECTS UNDERWAY	
Name of the Project	Quarter car dynamic response and the international road roughness index
Field Number(s)	1
Contact Point	(1) Name: Jose Antonio Romero Navarrete (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1995 (                      year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.67

KEY PROJECTS UNDERWAY	
Name of the Project	Machinery Information System (SIMAQ). System description and user's manual.
Field Number(s)	1
Contact Point	(1) Name: Jose Prado Perez (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1995 (                      year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.68

KEY PROJECTS UNDERWAY	
Name of the Project	Diesel engine based vehicles. Thechnical driving manual.
Field Number(s)	
Contact Point	(1) Name: Mercedes Rafael Morales (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Mercedes.Rafael@imt.mx
Schedule	from                      to 1995 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.70

KEY PROJECTS UNDERWAY	
Name of the Project	Design of a spreader for empty containers
Field Number(s)	5
Contact Point	(1) Name: Jose Ricardo Hernandez (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1995 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.72

KEY PROJECTS UNDERWAY	
Name of the Project	Four studies in materials with applications in the transport industry
Field Number(s)	1
Contact Point	(1) Name: Francisco Carrion Viramontes (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Francisco.Carrion@imt.mx
Schedule	from                      to 1996 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.79

KEY PROJECTS UNDERWAY	
Name of the Project	Guide for specification of technical characteristics of port gantry cranes
Field Number(s)	5
Contact Point	(1) Name: Alejandro Lozano Guzman (2) Title: Coordinator of transport equipment (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: Alejandro.Lozano@imt.mx
Schedule	from                      to 1995 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.81

KEY PROJECTS UNDERWAY	
Name of the Project	Identification and behavior of residual soils for use in highway engineering. Part 1
Field Number(s)	1
Contact Point	(1) Name: Daniel Camacho Barron (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1996 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.80

KEY PROJECTS UNDERWAY	
Name of the Project	Bridges management system
Field Number(s)	1
Contact Point	(1) Name: Miguel Barousse Moreno (2) Title: (3) Phone: 42-16-97-77 Fax: 42-16-96-71 E-mail: buzon@imt.mx
Schedule	from                      to 1994 (            year(s))
Record of Cooperation	
Other Remarks	Technical Publication No.49

Economies	New Zealand
Institute	The New Zealand Institute for Industrial Research and Development
Field Number(s)	1
Overall Contact Point	(1) Name: P.H. Baas (2) Title: Team Manager, Transport and Packaging (3) Phone: 9-3034116 Fax: 9-3070618 E-mail: p.baas@irl.cri.nz
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development of cost effective method of assessing vehicle suspensions for "road friendliness", or road wear
Field Number(s)	1
Contact Point	(1) Name: Dr. John J. de Pont (2) Title: Project leader (3) Phone: 9-3034116 Fax: 9-3070618 E-mail: j.dePont@irl.cri.nz
Schedule	from 1993 to 1996 ( 4 year(s))
Record of Cooperation	Closely linked to OECD coordinated research program DEVINE, led by 1R6 Scientific Expert Group
Other Remarks	Project leader is member of 1R6

KEY PROJECTS UNDERWAY	
Name of the Project	Interaction between road geometry, heavy vehicle performance (stability, manoeuvrability, tractive effort etc.) and driver behaviour
Field Number(s)	1
Contact Point	(1) Name: Dr. David M. White (2) Title: Project leader (3) Phone: 9-3034116 Fax: 9-3070618 E-mail: d.white@irl.cri.nz
Schedule	from 1993 to 1996 ( 4 year(s))
Record of Cooperation	1.University of Michigan, Transport Research Institute, USA 2.Australia Road Research Board, Australia 3.National Research Council, Canada
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Relationship between dynamic wheel forces and pavement life
Field Number(s)	1
Contact Point	(1) Name: Dr. John J. de Pont (2) Title: Project leader (3) Phone: 9-3034116 Fax: 9-3070618 E-mail: j.dePont@irl.cri.nz
Schedule	from 1993 to 1996 ( 4 year(s))
Record of Cooperation	Integral part of OECD coordinated research 1R6. Devine
Other Remarks	Project funded by OECD, NZ Foundation for Research Science and Technology, and Transit NZ. Being undertaken in conjunction with Canterburg University and Transit New Zealand.



Economies	New Zealand
Institute	Transit New Zealand
Field Number(s)	1
Overall Contact Point	(1) Name: Dr. J.H. McMillan (2) Title: Manager, Research and Development (3) Phone: 04-499-6600 Fax: 04-496-6666 E-mail:
Other Remarks	

Economies	Philippines
Institute	National Center for Transport Studies
Field Number(s)	1
Overall Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Analysis of Goods Movement in Metro Manila
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Analysis of Road Traffic Accidents in the City of Manila
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Analyzing Transfer Disutilities in Disaggregate Mode Choice Models for Work Trips Using Revealed and Stated Preference Data
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA

Other Remarks	
---------------	--

KEY PROJECTS UNDERWAY	
Name of the Project	Cost Characteristics of Jeepney and Bus Modes in Metro Manila
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Development of a Planning and Design Criteria for Jeepney Stop Facilities: Concepts and Single Lane Simulation
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Discrete Choice Models on Locational Choices of Firms in Industrial Estates: The Case of CALABARZON in the Philippines
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Effects of Fly-Over Construction on Traffic Flow: The Case of Metropolitan Manila
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1992 to 1994 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Effects of Opening Exclusive Residential Subdivision
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Expressway Capacity Analysis
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1993 to 1995 ( 2 year(s))
Record of Cooperation	JICA
Other Remarks	

KEY PROJECTS UNDERWAY	
Name of the Project	Re-Evaluation of Signal Parameters in Metro Manila
Field Number(s)	1
Contact Point	(1) Name: Dr. Reynaldo S. Vea (2) Title: Director (3) Phone: 97-56-64 Fax: 97-56-64 E-mail:
Schedule	from 1992 to 1994 ( 2 year(s))

Record of Cooperation	JICA
Other Remarks	

Economies  
Singapore

Institute  
Nanyang Technology University  
Centre for Transportation Studies

Field Number(s)  
1,2,3

(1) Name:  
Prof. Henry Fan

Overall Contact Point  
(2) Title:  
Director

(3) Phone:  
(65)7911744-5328

Fax:  
(65)7910676

E-mail:  
(65)7910676

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Driver Behaviour in the Central Expressway Tunnels

Field Number(s)  
1

(1) Name:  
Prof. Henry Fan

Contact Point

(2) Title:

Director, Centre for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:

chenryf@ntuvax.ntu.ac.sg

Schedule

from

1991

to

1992

(

1

year(s))

Record of Cooperation

Public Works Department

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

Slag Utilisation for Road Premix

Field Number(s)

1

(1) Name:

Mr. Lum Kit Meng



Contact Point

(2) Title:

Senior Lecturer, Center for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:

ckmlum@ntuvax.ntu.ac.sg

Schedule

from

1991

to

1992

(

1

year(s))

Record of Cooperation

NatSteel Ltd., Singapore

Other Remarks

Economies

Singapore

Institute

Nanyang Technology University

Centre for Transportation Studies

Field Number(s)

1,2,3

(1) Name:

Prof. Henry Fan

Overall Contact Point

(2) Title:

Director

(3) Phone:

(65)7911744-5328

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(65)7910676

E-mail:

(65)7910676

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Driver Behaviour in the Central Expressway Tunnels

Field Number(s)

1

(1) Name:

Prof. Henry Fan

Contact Point

(2) Title:

Director, Centre for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:  
chenryf@ntuvax.ntu.ac.sg

Schedule  
from  
1991  
to  
1992  
(  
1  
year(s))

Record of Cooperation  
Public Works Department

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Slag Utilisation for Road Premix

Field Number(s)  
1

(1) Name:  
Mr. Lum Kit Meng

Contact Point  
(2) Title:  
Senior Lecturer, Center for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:

ckmlum@ntuvax.ntu.ac.sg

Schedule

from

1991

to

1992

(

1

year(s))

Record of Cooperation

NatSteel Ltd., Singapore

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Car Ownership, Traffic Congestion and Road Pricing

Field Number(s)

1

(1) Name:

Prof. Henry Fan

Contact Point

(2) Title:

Director, Centre for Transportation Studies, NTU

(3) Phone:

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Fax:

65-7910676

E-mail:

chenryf@ntuvax.ntu.ac.sg

Schedule  
from  
1991  
to  
1995  
(  
4  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Analysis of Travel Behaviour in Singapore

Field Number(s)  
1

(1) Name:  
Dr. Piotr Olszewski

Contact Point  
(2) Title:  
Associate Professor

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
colsze@ntuvax.ntu.ac.sg

Schedule

from  
1992  
to  
1994  
(  
2  
year(s))

Record of Cooperation  
Public Works Department

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Study of Transport Services in Jurong Industrial Estate

Field Number(s)  
1

(1) Name:  
Prof. Henry Fan

Contact Point  
(2) Title:  
Director, Centre for Transportation Studies, NTU

(3) Phone:  
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Fax:  
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E-mail:  
chenryf@ntuvax.ntu.ac.sg

Schedule  
from

1993  
to  
1994  
(  
1  
year(s))

Record of Cooperation  
Jurong Town Corporation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Car Ownership, Traffic Congestion and Road Pricing

Field Number(s)  
1

(1) Name:  
Prof. Henry Fan

Contact Point  
(2) Title:  
Director, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
[chenryf@ntuvax.ntu.ac.sg](mailto:chenryf@ntuvax.ntu.ac.sg)

Schedule  
from  
1991  
to

1995  
(  
4  
year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Analysis of Travel Behaviour in Singapore

Field Number(s)  
1

(1) Name:  
Dr. Piotr Olszewski

Contact Point  
(2) Title:  
Associate Professor

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
colsze@ntuvax.ntu.ac.sg

Schedule  
from  
1992  
to  
1994



(  
2  
year(s))

Record of Cooperation  
Public Works Department

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Study of Transport Services in Jurong Industrial Estate

Field Number(s)  
1

(1) Name:  
Prof. Henry Fan

Contact Point  
(2) Title:  
Director, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
chenryf@ntuvax.ntu.ac.sg

Schedule  
from  
1993  
to  
1994  
(

1  
year(s))

Record of Cooperation  
Jurong Town Corporation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
An Experimental Study to Improve the Skid Resistance at Road Markings

Field Number(s)  
1

(1) Name:  
Mr. Lum Kit Meng

Contact Point  
(2) Title:  
Senior Lecturer, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
ckmlum@ntuvax.ntu.ac.sg

Schedule  
from  
1993  
to  
1994  
(  
1  
year(s))

Record of Cooperation  
Public Works Department

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Deviation Bollards and Yellow Band at Bus Stops

Field Number(s)  
1

(1) Name:  
Mr. Tan Yan Weng

Contact Point  
(2) Title:  
Senior Lecturer, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
cywtan@ntuvax.ntu.ac.sg

Schedule  
from  
1993  
to  
1994  
(  
1  
year(s))

Record of Cooperation  
Public Works Department

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Effectiveness of Speed-Radar Camera in Reducing High-Speed Travel

Field Number(s)  
1

(1) Name:  
Dr. Wong Yiik Diew

Contact Point  
(2) Title:  
Lecturer, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
cydwong@ntuvax.ntu.ac.sg

Schedule  
from  
1993  
to  
1995  
(  
2  
year(s))

Record of Cooperation

Traffic Police Department, Land Transport Authority

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

An Experimental Study to Improve the Skid Resistance at Road Markings

Field Number(s)

1

(1) Name:

Mr. Lum Kit Meng

Contact Point

(2) Title:

Senior Lecturer, Centre for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:

ckmlum@ntuvax.ntu.ac.sg

Schedule

from

1993

to

1994

(

1

year(s))

Record of Cooperation

Public Works Department

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

Deviation Bollards and Yellow Band at Bus Stops

Field Number(s)

1

(1) Name:

Mr. Tan Yan Weng

Contact Point

(2) Title:

Senior Lecturer, Centre for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:

cywtan@ntuvax.ntu.ac.sg

Schedule

from

1993

to

1994

(

1

year(s))

Record of Cooperation

Public Works Department

Other Remarks

## KEY PROJECTS UNDERWAY

### Name of the Project

Effectiveness of Speed-Radar Camera in Reducing High-Speed Travel

### Field Number(s)

1

### (1) Name:

Dr. Wong Yiik Diew

### Contact Point

#### (2) Title:

Lecturer, Centre for Transportation Studies, NTU

### (3) Phone:

65-7910676

### Fax:

65-7910676

### E-mail:

cydwong@ntuvax.ntu.ac.sg

### Schedule

from

1993

to

1995

(

2

year(s))

### Record of Cooperation

Traffic Police Department, Land Transport Authority

### Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

The Effects of Traffic, Geometrics and Operational Characteristics of Signalised Junctions on Red-Light Violation Rates

Field Number(s)

1

(1) Name:

Dr. Wong Yiik Diew

Contact Point

(2) Title:

Lecturer, Centre for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:

cydwong@ntuvax.ntu.ac.sg

Schedule

from

1991

to

1996

(

5

year(s))

Record of Cooperation

Land Transport Authority

Other Remarks



## KEY PROJECTS UNDERWAY

Name of the Project

Trip and Parking Rates for Major Land Uses in Singapore

Field Number(s)

1

(1) Name:

Mr. Tan Yan Weng

Contact Point

(2) Title:

Senior Lecturer, Centre for Transportation Studies, NTU

(3) Phone:

65-7910676

Fax:

65-7910676

E-mail:

cywtan@ntuvax.ntu.ac.sg

Schedule

from

1992

to

1997

(

5

year(s))

Record of Cooperation

Land Transport Authority

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project  
Home Interview Survey (1996) on Travel Behaviour

Field Number(s)  
1

(1) Name:  
Prof. Henry Fan

Contact Point  
(2) Title:  
Director, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
chenryf@ntuvax.ntu.ac.sg

Schedule  
from  
1996  
to  
1997  
(  
1  
year(s))

Record of Cooperation  
Land Transport Authority

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project  
The Effects of Traffic, Geometrics and Operational Characteristics of Signalised  
Junctions on Red-Light Violation Rates

Field Number(s)  
1

(1) Name:  
Dr. Wong Yiik Diew

Contact Point  
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65-7910676

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Schedule  
from  
1991  
to  
1996  
(  
5  
year(s))

Record of Cooperation  
Land Transport Authority

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Trip and Parking Rates for Major Land Uses in Singapore

Field Number(s)  
1

(1) Name:  
Mr. Tan Yan Weng

Contact Point  
(2) Title:  
Senior Lecturer, Centre for Transportation Studies, NTU

(3) Phone:  
65-7910676

Fax:  
65-7910676

E-mail:  
cywtan@ntuvax.ntu.ac.sg

Schedule  
from  
1992  
to  
1997  
(  
5  
year(s))

Record of Cooperation  
Land Transport Authority

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Home Interview Survey (1996) on Travel Behaviour

Field Number(s)  
1

(1) Name:  
Prof. Henry Fan

Contact Point  
(2) Title:  
Director, Centre for Transportation Studies, NTU

(3) Phone:  
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Fax:  
65-7910676

E-mail:  
chenryf@ntuvax.ntu.ac.sg

Schedule  
from  
1996  
to  
1997  
(  
1  
year(s))

Record of Cooperation  
Land Transport Authority

Other Remarks

Economies  
Singapore

Institute

National University of Singapore  
Centre for Transportation Research

Field Number(s)

1,2,3

(1) Name:

Assoc. Prof. T F Fwa

Overall Contact Point

(2) Title:

Director, Centre for Transportation Research

(3) Phone:

65-777-0170

Fax:

65-777-0994

E-mail:

65-777-0994

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project

Nondestructive Evaluation of Pavements

Field Number(s)

1

(1) Name:

Assoc. Prof. T F Fwa

Contact Point

(2) Title:

Director, Centre for Transportation Research, NUS

(3) Phone:  
65-777-0994

Fax:  
65-777-0994

E-mail:

Schedule  
from  
1994  
to  
1996  
(  
3  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Pavement Management Systems for Roads

Field Number(s)  
1

(1) Name:  
Assoc. Prof. T F Fwa

Contact Point  
(2) Title:  
Director, Centre for Transportation Research, NUS

(3) Phone:  
65-777-0994

Fax:  
65-777-0994

E-mail:

Schedule  
from  
1996  
to  
1999  
(  
3  
year(s))

Record of Cooperation

Other Remarks

Economies  
Singapore

Institute  
National University of Singapore  
Centre for Transportation Research

Field Number(s)  
1,2,3

(1) Name:  
Assoc. Prof. T F Fwa

Overall Contact Point

(2) Title:  
Director, Centre for Transportation Research



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Fax:  
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E-mail:  
65-777-0994

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Nondestructive Evaluation of Pavements

Field Number(s)  
1

(1) Name:  
Assoc. Prof. T F Fwa

Contact Point  
(2) Title:  
Director, Centre for Transportation Research, NUS

(3) Phone:  
65-777-0994

Fax:  
65-777-0994

E-mail:

Schedule

from  
1994  
to  
1996  
(  
3  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Pavement Management Systems for Roads

Field Number(s)  
1

(1) Name:  
Assoc. Prof. T F Fwa

Contact Point  
(2) Title:  
Director, Centre for Transportation Research, NUS

(3) Phone:  
65-777-0994

Fax:  
65-777-0994

E-mail:

Schedule  
from

1996  
to  
1999  
(  
3  
year(s))

Record of Cooperation

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Analysis of Traffic Speed

Field Number(s)  
1

(1) Name:  
Dr. H. C. Chin

Contact Point  
(2) Title:  
Principal Researcher / Senior Lecturer, Center for Transportation Research, NUS

(3) Phone:  
65-779-1635

Fax:  
65-779-1635

E-mail:

Schedule  
from  
1995  
to

1998  
(  
3  
year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Asphalt Road Drainage

Field Number(s)  
1

(1) Name:  
Dr. S. A. Tan

Contact Point  
(2) Title:  
Senior Lecturer, Centre for Transportation Research, NUS

(3) Phone:  
65-779-1635

Fax:  
65-779-1635

E-mail:

Schedule  
from  
1995  
to  
1998

(  
3  
year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Incident Detection Technologies

Field Number(s)  
1

(1) Name:  
Dr. R. L. Cheu

Contact Point  
(2) Title:  
Lecturer, Centre for Transportation Research, NUS

(3) Phone:  
65-779-1635

Fax:  
65-779-1635

E-mail:

Schedule  
from  
1995  
to  
1998  
(

3  
year(s))

Record of Cooperation

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
Analysis of Traffic Speed

Field Number(s)  
1

(1) Name:  
Dr. H. C. Chin

Contact Point  
(2) Title:  
Principal Researcher / Senior Lecturer, Center for Transportatiomm Research, NUS

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Fax:  
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E-mail:

Schedule  
from  
1995  
to  
1998  
(  
3  
year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Asphalt Road Drainage

Field Number(s)  
1

(1) Name:  
Dr. S. A. Tan

Contact Point  
(2) Title:  
Senior Lecturer, Centre for Transportation Research, NUS

(3) Phone:  
65-779-1635

Fax:  
65-779-1635

E-mail:

Schedule  
from  
1995  
to  
1998  
(  
3  
year(s))

Record of Cooperation

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Incident Detection Technologies

Field Number(s)  
1

(1) Name:  
Dr. R. L. Cheu

Contact Point  
(2) Title:  
Lecturer, Centre for Transportation Research, NUS

(3) Phone:  
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Fax:  
65-779-1635

E-mail:

Schedule  
from  
1995  
to  
1998  
(  
3  
year(s))

Record of Cooperation



Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
IT Applications in Highway Management

Field Number(s)  
1

(1) Name:  
Dr. W. T. Chan

Contact Point  
(2) Title:  
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Fax:  
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E-mail:

Schedule  
from  
1996  
to  
1999  
(  
3  
year(s))

Record of Cooperation

Other Remarks

## KEY PROJECTS UNDERWAY

Name of the Project

IT Applications in Highway Management

Field Number(s)

1

(1) Name:

Dr. W. T. Chan

Contact Point

(2) Title:

Principal Researcher / Senior Lecturer, Center for Transportation Research, NUS

(3) Phone:

65-779-1635

Fax:

65-779-1635

E-mail:

Schedule

from

1996

to

1999

(

3

year(s))

Record of Cooperation

Other Remarks



ValidCPLLPP4□  
ValidCPLLPP□J  
ViewGrid  
ViewGrid□K  
69.3 pt,4.1 pt  
69.3 pt,4.1 pt  
64.5 pt,-0.7 pt  
64.5 pt,-0.7 pt  
@NEC MultiWriter 2000E NPDL2  
\\Svusx1\usx1p10  
NPDL2MS  
NEC MultiWriter 2000E NPDL2  
NEC MultiWriter 2000E NPDL2  
NEC MultiWriter 2000E NPDL2  
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Times New Roman  
Symbol  
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Attachment A  
Root Entry  
WordDocument  
WordDocument  
CompObj  
CompObj  
SummaryInformation  
SummaryInformation  
Microsoft Word •¶□‘  
MSWordDoc  
Word.Document.6  
Attachment A  
Microsoft Word for Windows 95  
DocumentSummaryInformation  
DocumentSummaryInformation  
Attachment A  
Attachment A

## KEY PROJECTS UNDERWAY

Name of the Project  
Project Evaluation

Field Number(s)  
1,2,3,4,5

(1) Name:  
Somsak Hommuang

Contact Point  
(2) Title:  
Chief of Projects Sub-division

(3) Phone:  
662-2816263

Fax:  
662-2816263

E-mail:

Schedule  
from  
1997  
to  
1997  
(  
1  
year(s))

Record of Cooperation

Other Remarks

The aim of this project is to develop a standardized system for projects appraisal analysis and projects ranking. The standard process of cooperation between the Transport and Communication Policy and Planning Bureau and the agencies under the Ministry and also the action plan to implement the proposed system will be developed.

The comprehensive manual of the system will be provided in order to prepare the Action

Plan.

## KEY PROJECTS UNDERWAY

Name of the Project  
Study on Transport Master Plan

Field Number(s)  
1,2,3,4,5

(1) Name:  
Jatuporn Suwanpangpraek

Contact Point  
(2) Title:  
Chief of Planning Sub-division

(3) Phone:  
662-2816243

Fax:  
662-2816243

E-mail:

Schedule  
from  
1995  
to  
1996  
(  
1  
year(s))

Record of Cooperation

Other Remarks

The objectives of this project is to study and implement the Integrated Transport

Planning Technique for long-term Transport Master Plan of MOTC (1997-2006)

KEY PROJECTS UNDERWAY

Name of the Project

Study on the Policy for Port and ICD Roles and Location

Field Number(s)

5

(1) Name:

Wijit Nimitrwanich

Contact Point

(2) Title:

Chief of Research Sub-division

(3) Phone:

662-2801008

Fax:

662-2801008

E-mail:

Schedule

from

1996

to

1996

(

year(s))

Record of Cooperation

Other Remarks

The objectives of this project are as follows: -

- to determine the characteristics and roles of existing ports and location of future ports,
- to set up the master plan for the establishment of ICD.

## KEY PROJECTS UNDERWAY

Name of the Project  
Project Evaluation

Field Number(s)  
1,2,3,4,5

(1) Name:  
Somsak Hommuang

Contact Point  
(2) Title:  
Chief of Projects Sub-division

(3) Phone:  
662-2816263

Fax:  
662-2816263

E-mail:

Schedule  
from  
1997  
to  
1997  
(  
1  
year(s))

Record of Cooperation

Other Remarks

The aim of this project is to develop a standardized system for projects appraisal analysis



and projects ranking. The standard process of cooperation between the Transport and Communication Policy and Planning Bureau and the agencies under the Ministry and also the action plan to implement the proposed system will be developed.

The comprehensive manual of the system will be provided in order to prepare the Action Plan.

## KEY PROJECTS UNDERWAY

Name of the Project  
Study on Transport Master Plan

Field Number(s)  
1,2,3,4,5

(1) Name:  
Jatuporn Suwanpangpraek

Contact Point  
(2) Title:  
Chief of Planning Sub-division

(3) Phone:  
662-2816243

Fax:  
662-2816243

E-mail:

Schedule  
from  
1995  
to  
1996  
(  
1  
year(s))

Record of Cooperation

Other Remarks

The objectives of this project is to study and implement the Integrated Transport Planning Technique for long-term Transport Master Plan of MOTC (1997-2006)

KEY PROJECTS UNDERWAY

Name of the Project

Study on the Policy for Port and ICD Roles and Location

Field Number(s)

5

(1) Name:

Wijit Nimitrwanich

Contact Point

(2) Title:

Chief of Research Sub-division

(3) Phone:

662-2801008

Fax:

662-2801008

E-mail:

Schedule

from

1996

to

1996

(

year(s))

Record of Cooperation

Other Remarks

The objectives of this project are as follows: -

- to determine the characteristics and roles of existing ports and location of future ports,
- to set up the master plan for the establishment of ICD.

Economies

Thailand

Institute

Department of Highways

Road Research and Development Center

Field Number(s)

(1) Name:

Dr. Teeracharti Ruenkraitersa

Overall Contact Point

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Director

(3) Phone:

662-245-5504

Fax:

662-247-9425

E-mail:

662-247-9425

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project

Techniques to improve soft clay foundation

Field Number(s)

1

(1) Name:

Dr. Teeracharti Ruenkraitergsa

Contact Point

(2) Title:

Director

(3) Phone:

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Fax:

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E-mail:

Schedule

from

1996

to

1998

(

3

year(s))

Record of Cooperation

cooperated with JICA

Other Remarks

To study and evaluate tentative techniques for improving the properties of the soft clay foundation to lengthen the service life of the road.

KEY PROJECTS UNDERWAY

Name of the Project

Road design and construction techniques on soft foundation

Field Number(s)

1

(1) Name:

Dr. Teeracharti Ruenkraitergsa

Contact Point

(2) Title:

Director

(3) Phone:

662-247-9425

Fax:

662-247-9425

E-mail:

Schedule

from

1996

to

1997

(

2

year(s))

Record of Cooperation

cooperated with Swedish National Road Consulting AB (SweRoad) and Swedish Geotechnical Institute (SGI)

Other Remarks

To apply the new techniques (available in European countries) for designing the road on soft clay in Thailand.

Economies

Thailand

Institute  
Department of Highways  
Road Research and Development Center

Field Number(s)

(1) Name:  
Dr. Teeracharti Ruenkraitergsa

Overall Contact Point  
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Director

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662-245-5504

Fax:  
662-247-9425

E-mail:  
662-247-9425

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Techniques to improve soft clay foundation

Field Number(s)  
1

(1) Name:  
Dr. Teeracharti Ruenkraitergsa

Contact Point  
(2) Title:

Director

(3) Phone:  
662-247-9425

Fax:  
662-247-9425

E-mail:

Schedule  
from  
1996  
to  
1998  
(  
3  
year(s))

Record of Cooperation  
cooperated with JICA

Other Remarks

To study and evaluate tentative techniques for improving the properties of the soft clay foundation to lengthen the service life of the road.

#### KEY PROJECTS UNDERWAY

Name of the Project  
Road design and construction techniques on soft foundation

Field Number(s)  
1

(1) Name:  
Dr. Teeracharti Ruenkairergsa

Contact Point  
(2) Title:

Director

(3) Phone:  
662-247-9425

Fax:  
662-247-9425

E-mail:

Schedule  
from  
1996  
to  
1997  
(  
2  
year(s))

Record of Cooperation  
cooperated with Swedish National Road Consulting AB (SweRoad) and Swedish  
Geotechnical Institute (SGI)

Other Remarks

To apply the new techniques (available in European countries) for designing the road on  
soft clay in Thailand.

#### KEY PROJECTS UNDERWAY

Name of the Project

Pilot project on evaluation of road conditions by using FWD

Field Number(s)

1

(1) Name:

Dr. Teeracharti Ruenkrairergsa

Contact Point

(2) Title:



Director

(3) Phone:  
662-247-9425

Fax:  
662-247-9425

E-mail:

Schedule  
from  
1997  
to  
1999  
(  
3  
year(s))

Record of Cooperation  
Cooperated with Danish Road Directorate

Other Remarks

To evaluate road conditions and obtain elastic modulus and induced strain due to the wheel load in road pavement structure, which are used to design the thickness of overlay by an analytical design method

#### KEY PROJECTS UNDERWAY

Name of the Project

Pilot Study to develop performance-based specifications for paving materials

Field Number(s)

1

(1) Name:

Dr. Chayatan Phromsorn

Contact Point

(2) Title:  
Research Engineer

(3) Phone:  
662-247-9425

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662-247-9425

E-mail:

Schedule  
from  
1997  
to  
2000  
(  
4  
year(s))

Record of Cooperation

Other Remarks

- To study properties of materials based on their performance under traffic,
- To study the Pros and Cons of performance-based specifications for paving materials which have been used in USA.  
currently and try to apply the concepts for developing an appropriate specifications for use in Thailand

KEY PROJECTS UNDERWAY

Name of the Project

Pilot project on evaluation of road conditions by using FWD

Field Number(s)

1

(1) Name:

Dr. Teeracharti Ruenkairergsa

Contact Point

(2) Title:  
Director

(3) Phone:  
662-247-9425

Fax:  
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E-mail:

Schedule  
from  
1997  
to  
1999  
(  
3  
year(s))

Record of Cooperation  
Cooperated with Danish Road Directorate

Other Remarks

To evaluate road conditions and obtain elastic modulus and induced strain due to the wheel load in road pavement structure, which are used to design the thickness of overlay by an analytical design method

#### KEY PROJECTS UNDERWAY

Name of the Project

Pilot Study to develop performance-based specifications for paving materials

Field Number(s)

1

(1) Name:

Dr. Chayatan Phromsorn

Contact Point  
(2) Title:  
Research Engineer

(3) Phone:  
662-247-9425

Fax:  
662-247-9425

E-mail:

Schedule  
from  
1997  
to  
2000  
(  
4  
year(s))

Record of Cooperation

Other Remarks

- To study properties of materials based on their performance under traffic,
  - To study the Pros and Cons of performance-based specifications for paving materials which have been used in USA.
- currently and try to apply the concepts for developing an appropriate specifications for use in Thailand  
s environment.

Economies  
Thailand

Institute  
Port Authority of Thailand

Field Number(s)  
5

(1) Name:  
Mr. Anuparb Sunananta

Overall Contact Point  
(2) Title:  
Director General

(3) Phone:  
66-2-2490399

Fax:  
66-2-2490885

E-mail:  
66-2-2490885

Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
The Study on Modernization of Bangkok Port in the Kingdom of Thailand

Field Number(s)  
5

(1) Name:  
Mr. Payoongkich Chivamit

Contact Point  
(2) Title:  
Managing Director of Bangkok Port

(3) Phone:  
66-2-2490885

Fax:  
66-2-2490885

E-mail:

Schedule  
from  
1993  
to  
1994  
(  
1  
year(s))

Record of Cooperation  
Japan International Cooperation Agency (JICA)

Other Remarks

- To formulate the Masterplan for the period up to the year 2005,
- To conduct a feasibility study for the short-term plan to modernize Bangkok port for the period up to the year 1997

#### KEY PROJECTS UNDERWAY

Name of the Project  
The Development of Laem Chabang Port Phase I

Field Number(s)  
5

(1) Name:  
Cdr. Karn Tantivejakul R.T.N.

Contact Point  
(2) Title:  
Director of Laem Chabang Port

(3) Phone:  
66-038-490141

Fax:  
66-038-490141

E-mail:

Schedule  
from  
1984  
to  
1986  
(  
2  
year(s))

Record of Cooperation  
PAAS CONSORTIUM

Other Remarks

- To conduct the detail design of the constructions for the firs basin of Laem Chabang Port.

Economies  
Thailand

Institute  
Port Authority of Thailand

Field Number(s)  
5

(1) Name:  
Mr.Anuparb Sunananta

Overall Contact Point  
(2) Title:  
Director General

(3) Phone:  
66-2-2490399

Fax:  
66-2-2490885

E-mail:  
66-2-2490885

Other Remarks

### KEY PROJECTS UNDERWAY

Name of the Project  
The Study on Modernization of Bangkok Port in the Kingdom of Thailand

Field Number(s)  
5

(1) Name:  
Mr. Payoongkich Chivamit

Contact Point  
(2) Title:  
Managing Director of Bangkok Port

(3) Phone:  
66-2-2490885

Fax:  
66-2-2490885

E-mail:

Schedule  
from  
1993  
to  
1994



(  
1  
year(s))

Record of Cooperation  
Japan International Cooperation Agency (JICA)

Other Remarks

- To formulate the Masterplan for the period up to the year 2005,
- To conduct a feasibility study for the short-term plan to modernize Bangkok port for the period up to the year 1997

#### KEY PROJECTS UNDERWAY

Name of the Project  
The Development of Laem Chabang Port Phase I

Field Number(s)  
5

(1) Name:  
Cdr. Karn Tantivejakul R.T.N.

Contact Point  
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Director of Laem Chabang Port

(3) Phone:  
66-038-490141

Fax:  
66-038-490141

E-mail:

Schedule  
from  
1984  
to

1986

(  
2

year(s))

Record of Cooperation  
PAAS CONSORTIUM

Other Remarks

- To conduct the detail design of the constructions for the first basin of Laem Chabang Port.

#### KEY PROJECTS UNDERWAY

Name of the Project  
The Development of Laem Chabang Port Phase II

Field Number(s)  
5

(1) Name:  
Cdr. Karn Tantivejakul R.T.N.

Contact Point  
(2) Title:  
Director of Laem Chabang Port

(3) Phone:  
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Fax:  
66-038-490141

E-mail:

Schedule  
from  
1996  
to  
1997

(  
1  
year(s))

Record of Cooperation  
PCI, Dorsch, AEC, Team

Other Remarks

- To conduct the detail design of the constructions for the firs basin of Laem Chabang Port.

#### KEY PROJECTS UNDERWAY

Name of the Project  
The Development of Laem Chabang Port Phase II

Field Number(s)  
5

(1) Name:  
Cdr. Karn Tantivejakul R.T.N.

Contact Point  
(2) Title:  
Director of Laem Chabang Port

(3) Phone:  
66-038-490141

Fax:  
66-038-490141

E-mail:

Schedule  
from  
1996  
to  
1997  
(

1  
year(s))

Record of Cooperation  
PCI, Dorsch, AEC, Team

Other Remarks  
- To conduct the detail design of the constructions for the firs basin of Laem Chabang Port.

Economies  
Thailand

Institute  
Office of Maritime Promotion Commission

Field Number(s)  
2

(1) Name:  
Mr. Somsak Piensakool

Overall Contact Point  
(2) Title:  
Director of Research and Planning Division

(3) Phone:  
662-281-5104

Fax:  
662-280-0563

E-mail:  
662-280-0563

Other Remarks

KEY PROJECTS UNDERWAY

Name of the Project  
Outbound Ocean Transportation of Frozen Products in Thailand

Field Number(s)  
2

(1) Name:  
Mr. Somsak Piensakool

Contact Point  
(2) Title:  
Director of Research and Planning Division

(3) Phone:  
662-280-0561

Fax:  
662-280-0561

E-mail:

Schedule  
from  
1996  
to  
1997  
(  
1  
year(s))

Record of Cooperation

Other Remarks

- To Study the Situation of Phailand Exportations and Transportation of frozen products,
- To amlyse the prothms of Transportation including the Expenditure Concerned,
- To recommend guidelines and measures to improve the Situation

Economies

Thailand

Institute  
Office of Maritime Promotion Commission

Field Number(s)  
2

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Mr. Somsak Piensakool

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Other Remarks

#### KEY PROJECTS UNDERWAY

Name of the Project  
Outbound Ocean Transportation of Frozen Products in Thailand

Field Number(s)  
2

(1) Name:  
Mr. Somsak Piensakool

Contact Point



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Economies	U.S.A.
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Institute	Federal Transit Administration Transit Research Information Center
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Other Remarks	
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