3. Water Resources/ Disaster Management

Training for Expert on Flood-related Disaster Mitigation 洪水関連災害防災専門家育成		PITD	Leaders	1180043	
Target Countries:			22	participants	
Sector: Water Resources/Disaster Management/Comprehensive Water Resources Management					
Sub-Sector :					
Language: English					
Appeal				. 1 . 1	
This program is provided to technical officials, engineers or researchers of governmental organizations c disasters. This program aims to develop the participant's capacity to practically manage the problems ar developing countries.	oncerning river id issues concer	managen ning wat	nent or wa er–related	ter-related disasters in	
Objective / Output	Target	t Organiz	ation / Gro	up	
[Objective] The program objective is to develop the participant's capacity to practically manage the problems and issues concerning water-related disasters for contributing to mitigation of water-related disasters in their countries. [Outputs] 1. To be able to explain basic concept and theory on Generation Process of Water-related Disasters, Control measures for Landslide and Debris Flow. 2. To be able to explain basic concept and theory on Water-related Hazard Risk Evaluation, Disaster Risk Management Policy and Technologies. 3. To formulate the countermeasures (Master Thesis and Action plan) to solve the problems and issues concerning water-related disasters for applying techniques and knowledge acquired through the training course in their countries.	This program i organization coor water-relate Target Group 1. Administration and/or research management in 2. Experience 3 years' experiment and years' experiment water resource	ninistrative officers and/or engineer r researchers in the field of water ement in above—mentioned organiza perience in the relevant field: more			
Contents	Program Period	2011 / 1	0/2~	2012 / 9 / 15	
[Preliminary Phase] To make an Inception Report on current situation and problem of water-related disasters in their countries. [Core Phase in Japan] To acquire the necessary skill and technique for reducing water-related disasters through lectures, discussions, research, practical exercises and site visits, etc.	Implementing Partner	ICHAR	M (Public ch Institut	Works	
(1)Generation Process of Water-related Disasters, Control measures for Landslide and Debris Flow	JICA Center	"	`sukuba		
·Hydrology, Flood hydraulics and sediment transport, Mechanics of sediment transportation and river changes, Control measures for landslide & debris flow, etc.	Cooperation Period	rship)			
(2)Water-related Hazard Risk Evaluation •Disaster management policy, Disaster risk management, Integrated Flood Risk Management, Local disaster management and hazard mapping, etc. (3)To formulate flood countermeasures •Individual study (Formulation of Master thesis, Action Plan)	Participants who successfully ach required credits a Master's Degrand Disaster Manag GRIPS and PWF			ved the ill be awarded e, 'Master of	

Effective Use of Industrial Water and Re−use of Waste Water 工業用水使用合理化及び廃水再生利用		PITD So	olution	1180074
Target Countries:			8	participants
Sector : Water Resources/Disaster Management/Comprehensive Water Resources Management				
Sub-Sector :				
Language: English				
Appeal				
This program is designed for administrative officers who belong to the planning department of industrial re-use.	water to learn e	ffective use	e of wate	er and
Objective / Output	Target	: Organizati	ion / Gro	pup
Objective Possible solutions to policy challenges relating to effective use of industrial water and re-use of waste water will be studied and a policy /plan for the solutions will be formulated. [Expected Results] To achieve this program objective, participants are expected to; 1. Understand and explain the necessity of policy on the effective use of industrial water and reuse of waste water. Also, participants are expected to be able to explain the difference of industrial water policy between Japan and the respective countries. 2. Understand the basic technologies on effective use of water and reuse of waste water at plant. 3. Understand the importance of the required policy planning and implementation to promote the effective use of water and reuse of waste water. 4. Develop and present a feasible action Report of the effective use of industrial water and reuse of waster water in the respective countries.	Target Organ Policy planning industrial wate Target Group (1st &2nd year are in charge of (3rd year) Sen who are respon the target orga -Have at least the aforementic -Individuals wh water treatmen	fficers who al level. ement officers ion making in xperience in astered basic		
Contents	Program Period	0011 /10	/10	0011 /11 /0
	1 logiaiti elloc	2011 / 10 / Water Re		2011 / 11 / 3
(1) Presentation of the current situation on water, industrial water and waste water in the respective countries (2) Lecture on the necessity of effective use of industrial water and re-use of waste water (3) Comparison & Analysis the difference between trainee's countries and Japan (4) Field trip to plants which use/reuse the water effectively (water treatment plant, Iron and steel	Implementing Partner	Center	suse Pro	motion
production factory, barrage) (5) Lecture on the basic technologies of effective use of water and reuse of waste water	JICA Center	JICA Tok	куо(Indu	strial
(6) Lecture on water treatment technologies which are easy to apply at developing countries		Dev.&Fin		
(7) Lecture on the policy, law and regulation of industrial water and the role of METI (Ministry of	Cooperation Period	2009~20	011	
Economy, Trade and Industry)	1 Chod			
(8) Rain water use (9) Lecture on the financial support system in Japanese developing assistance policy (10) Development, Presentation and Discussion of Action Plan	Remarks and Website			

Adaptive Watershed Management for Flood Countermeasures by Climate Change and PITD Trainers 1180765 Conservation of Ecosystem 気候変動による洪水対策と生態系保全のための順応的流域管理 participants Target Countries: Sector: Water Resources/Disaster Management/Comprehensive Water Resources Management Sub-Sector: Nature Conservation/Other Nature Conservation Issues Language : English Appeal By increasing the scale/numbers of natural disasters, watershed management is not well implemented only by conventional measures such as construction of dams/embankments. Therefore it is needed to introduce adaptive management of watershed not depending on the conventional techniques. It enable to minimize the destruction of the natural environment. Objective / Output Target Organization / Group [Course Objective] Adaptive watershed management methods will be systematically shared by mid-level Target Organizations] working and senior administrative officers whose organizations operate flood control and ecosystem Project implementation organizations on flood conservation for watershed management. (three-year objective) countermeasurs or ecosystem conservation in [Expected Module Outputs] watershed areas 1. First and Second year program: (1) To be able to explain the effects of climate change on the Target Group watersheds of their respective areas and discuss the possibility of introducing adaptive watershed 1. First and second year: Mid-level working (2) To be able to analyze current flood risks and the conditions/patterns of officers for flood countermeasers and management method ecosystem destruction in the watersheds of their respective areas and explain ongoing adaptive ecosystem conservations measures tackling with issues on watershed management method (3) To formulate the Action Plan 2. Third year: Senior administrative officers of (draft) for an adaptive watershed management project in the target area organizations for flood countermeasures and ecosystem conservation and academic experts. 2. Third year program: In addition to the Outputs (1) to (3), (4) To formulate the Action Plan (Final It is strongly recommended for the same draft) based on method for adaptive watershed management in the target area. organizations from flood countermeasusres and ecosystem conservation every year. Contents Program Period $2011 / 6/12 \sim 2011 / 7/2$ [Preliminary Phase in home country] Submission of Inception Report (Present issues) Hokkaido University, [Core Phase in Japan] Following lectures, practical exercises, observations and discussions are Hokkaido Development Implementing Bureau Partner 1. First and second year program: (1) Global environmental change/Kyoto Protocol, Countermeasures for mitigation and adaptation, Fundamentals of landscape ecology, Dams and watershed control. (2) Conservation method of ecosystem, Flood plain management methods, biodiversity and flood IICA Obihiro JICA Center frequency, River flood control and biodiversity conservation, Basic knowledge and operation of GIS, Flood plain management methods using GIS. (3) Workshop for issue analysis and survey rapacity development, Consensus building, Cooperation with NGOs, Citizens' participation (3) Workshop for issue analysis and survey method, Cooperation 2009~2011 Period 2. Third year program: In addition to reviewing the outputs (1) to (3), (4) Discussion on issues on Since the program objective is Action Plan (Final draft). to be attained over 3 years, [Finalization Phase in home country] Submission of the Final Report within six months after returning the duration of each year home countries. Remarks differs as follows: 60 days

and

Website

(First and second year) and 21

days (third year).

Tuto metad Water Descriptor Management	1	PITD So	lution	1180839
Integrated Water Resources Management 統合的水資源管理	'	PIID 30	lution	1100039
T 10 1:			1.4	participants
Target Countries:			14	participants
Sector : Water Resources/Disaster Management/Comprehensive Water Resources Management Sub-Sector :				
Language : English Appeal				
This program is designed for an administrative officer concerning with IWRM to enhance the capacity on program includes the case study of IWRM in Tone river basin by site visit and discussions [Coordination downstream, different sectors), Construction of dams, canals, barrages], Monitoring watertable and land countries.	among stakeho	lders(betw	een upst	ream and
Objective / Output	Target	Organizat	ion / Gro	up
Objective This course aims at the capacity development of the participants on the planning and				- 1
implementation of IWRM. [Expected Results] (1) To understand the concept of IWRM (2) To understand the hydrological and water-demand-supply balance, the methods of monitoring, assessment and analysis for planning and implementing of IWRM (3) To understand the water resource development plan, the fair and efficient water utilization plan, the planning methods and the practice of IWRM (4) To understand the causes of water conflicts among different sectors, regions and those of between upstream and downstream, and to get the clues to solve water conflicts (5) To formulate an Action Plan to implement IWRM in the certain river basin which is identified as the candidate river basin for IWRM practice in the country report by prioritizing current problems and solving them by using acquired skills in the training course	[Target Organization] Administrative organizations concerning water resources management, which belothe central/local government [Target Group] (1) To be officers of the level of a direct department of central government or a director general of department in local government or equivalent belonging to wresources related ministries (2) To have more than 15 years of exper (3) To be university graduates or equival (4) To be over 40 and under 55 years old principle)			
Contents	Program Period	2011 / 11/	/20 ~ S	2011 / 12 / 3
[Preliminary Phase] Submission of country report [Core Phase] (1) Outline of IWRM (2) Sustainable groundwater use, Monitoring water table and land subsidence, Water supply and demand control in waterworks side, Water demand management (domestic and agricultural water)	Implementing Partner	Japan Wa		
(3) Outline of water resources policy in Japan, Integrated dam operation and drought adjustment, Application of Japanese efficient water use and advanced water related technologies to foreign	JICA Center	JICA Tol	yo(Ecor	nomy&Env.)
countries. (4) Consensus building for comprehensive river development, Implementation of IWRM in international rivers, Case study of water conflict management in Japan and the world, Planning for IWRM -Planning	Cooperation Period	2009~20	011	
* Site Visit and Discussions * Site Visit and Discussions (5) Presentation of Action Plan [Finalization Phase] Sharing of Action Plan in respective organizations within 6 months after the training in Japan	Remarks	There is a program " Resources Middle Ea program.	Integrate Manage	ement for

Integrated Basin Management for Lake Environment 湖沼環境保全のための統合的湖沼流域管理		PITD :	Solution	1180988				
Target Countries:			4	participants				
Sector: Water Resources/Disaster Management/Comprehensive Water Resources Management								
Sub-Sector :								
Language: English, Spanish								
Appeal								
Participants will understand the importance of "Integrated Lake Basin Management (ILBM)", for the manintegral pursuit of six issues - Institutions, Policies, Participation, Technologies, Knowledge and Informat			eservoirs, v	which aims at				
Objective / Output	Target	t Organiz	ation / Gro	up				
lake basin management, and to become able to play a major catalytic role in developing the needed governance framework. [Expected Module Output] <preliminary phase=""> 0) Participants will prepare a preliminary report and questionnaire about the management of the lake basin they are in charge of. / <core in="" japan="" phase=""> 1) Participants will share difficulties and challenges to realize what to learn in this course. 2) Participants are able to explain the resources of lakes and their utilization 3) Participants are able to explain the challenges of governance in the field of Lake Basin management in general and in their respective country. 4) Participants are able to propose an draft Action Plan, to solve the problems/challenges which participants' organization are facing, by properly integrating the components of the ILBM framework.</core></preliminary>	1) Technical officer in charge of lake/wetlewater management (including management rivers flowing into such water bodies) who expected to assume executive administration posts in that field or researchers in water quality and ecosystem management who at expected to take leading roles in guiding take/wetland management programs in the country/ 2) Experience: more than 3 years experience in the field/ 3) Age: 25 -40 ye of age/ 4) Language: have a competent command of spoken and written English				water management (including managemen rivers flowing into such water bodies) who expected to assume executive administration posts in that field or researchers in water quality and ecosystem management who a expected to take leading roles in guiding lake/wetland management programs in the country/ 2) Experience: more than 3year experience in the field/ 3) Age: 25 -40 years of age/ 4) Language: have a competent			nagement of dies) who are ministrative in water nt who are guiding the ms in their an 3years' 5-40 years empetent
Contents	Program Period	2012 /	1 / 0 ~	2012 / 3 / 10				
[Output 0-1]- Preparation, presentation and discussion of Country Report [Output 2] a) Share information about the State of Lakes: ILBM introduction, Water Purification of Lake Suwa/ b) Biophysical Characteristics: Lake Biwa Museum, Basic Limnology and Eutrophication of Lake/c) Human use of Lakes: Specialties made of local reed, Economics of Lake Basin [Output 3] a) Institutions: Lake Biwa Environmental Research Institute/b) Incentives and Regulations:	Implementing Partner	Interna	tional Lak	e				
Lake Basin Management Policies and Institutions/c) Involving People: Accommodating for Stakeholder Interests and Restoration of Resource Values, Environmental NGO's Activities, Environment	JICA Center	JICA C)saka					
Conservation and Citizen Participation/d) Technological Response: Biwa Lake Construction Work Office and Seta River Weir, Role of Irrigation and Agriculture in Lake Basin Management/	Cooperation	2010~	2012					
e) Information: ESD and Environmental Education, Basic GIS training, Remote Sensing for ILBM / f) Finance: Payment for Ecosystem Service, Financial Supply for Lake Management [Output 4-5]- Preparation, presentation, discussion, sharing and improvement of Action Plan	Period Remarks and Website	Website http://w .html	of ILEC: www.ilec.o	r.jp/eg/index				

Water Resource Conservation Management in Islands Area 島嶼における水資源保全管理	F	PRTD T	rainers	1184030
Target Countries: Oceania (Samoa, Tonga, Marshall, Nauru, Cook, Niue, Solomon, Fiji)			13	participants
Sector: Water Resources/Disaster Management/Comprehensive Water Resources Management				
Sub-Sector:				
Language : English				
Appeal Participants learn not only a principle of water resources management and concept of Integrated Water F and drought prevention program of Okinawa, but also are expected to formulate the red between the pers Countries. Furthermore, it's expected to contribute to human resources development of water utility org	sonnel of water	project in	ncluding v n Pacific I	water policy Island
Objective / Output	Target	t Organiza	ation / Gro	up
conservation management and effective use which is applicable to Island countries. [Expected Module Output]	[Target Organization] Authority or government in charge of water supply in Pacific islands countries. [Target Group] (1) A engineer or government officer who hengaged in organization mentioned above. (2) At least more than 3 years' experience the field of water supply.			
Contents	Program Period	2011 / 7	7/12 ~ 2	2011 / 9 / 3
[Preliminary Phase in home country] Formulation and Submission of Country Report [Core Phase in Japan] (1) Policy of water sources and the concept of integrated water resouces management in Okinawa (2) Water resources development (the case of Okinawa)	Implementing Partner	Okinawa	a Prefectu ise Burea	ıral
(3) Water resources conservation mangement in Islands area. (4) Slow Sand Filteration system (low cost and easy maintenance) in Islands area.	JICA Center	JICA OI	kinawa	
(5) Countermeasure for water leakage, Non-Revenue water mangement, water quality control system, planning of waterworks facilities maintenance and improvement. [Finalization Phase in home country]	Cooperation Period	2010~2	2012	
Reporting in home country, application and implementation of action plan.	Remarks and Website	Bureau http://w	ww.eb.pre	ral Enterprise ef.okinawa.jp/ ryuu/index.h

Integrated Water Resources Management for Middle East 中東地域統合的水資源管理	F	PRTD Traine	ers	1184233
Target Countries: Middle East			12	participants
Sector: Water Resources/Disaster Management/Comprehensive Water Resources Management				
Sub-Sector:				
Language: English				
Appeal				
This program is designed for an administrative officer concerning with IWRM to enhance the capacity on program includes the case study of IWRM in Yoshino river basin by site visit and discussions [Coordinati downstream, different sectors), Construction of dams, canals, barrages], Monitoring water table and land	on among stake	holders (betv	veen up	stream and
Objective / Output	Target	: Organization	/ Group)
implementation of IWRM. [Expected Results] (1) To understand the concept of IWRM (2) To understand the hydrological and water-demand-supply balance, the methods of monitoring, assessment and analysis for planning and implementing of IWRM	[Target Organization] Administrative organizations concerning water resources management, which be the central/local government [Target Group] (1) To be responsible for a plan on implementation of IWRM in an administorganization or a department of central government concerning with IWRM (2) To have more than 5 years of expet (3) To be university graduates or equit (4) To be over 35 and under 45 years principle)			inistrative ntral/local xperience quivalent
Contents	Program Period	2012 / 1 / 20	2 ~ . 20	19 / 9 /10
[Preliminary Phase] Submission of country report [Core Phase] (1) Outline of IWRM, Global warming issues and its impact in Middle East (2) Surface Water -Development/Utilization/Administration-, Sustainable groundwater use, Monitoring water table and land subsidence, Water supply and demand control in waterworks side, Water demand management (domestic and agricultural water)	Implementing Partner	2012 / 1/22 Japan Water		
(3) Outline of water resources policy in Japan, Integrated dam operation and drought adjustment, Application of Japanese efficient water use and advanced water related technologies to foreign countries, New Water Resources.	JICA Center	JICA Tokyo	(Econo	my&Env.)
(4) Consensus building for comprehensive river development, Utilization of Decision Support System (DSS) for IWRM, Implementation of IWRM in international rivers, Case study of water conflict management in Japan and the world, Planning for IWRM -Planning Process with Conflict Management-	Cooperation Period 2010~2012			
* Site Visit and Discussions (5) Presentation of Action Plan [Finalization Phase] Sharing of Action Plan in respective organizations within 6 months after the training in Japan	Remarks and Website			

Policymaking of Water Environmental Management in Middle East,and African countries 中東・アフリカ地域 水環境管理政策	F	PRTD	Solution	1184297
Target Countries: Middle East and Africa			10	participants
Sector: Water Resources/Disaster Management/Comprehensive Water Resources Management				
Sub-Sector:				
Language: English				
Appeal				
This program aims to promote action plan in order to not only secure safe and stable water resources and environment with application of non-conventional alternatives in Middle East and African countries.	l supply, but al	so to im	nprove wate	er quality
Objective / Output	Target	t Organiz	zation / Gro	up
shall be proposed by the participating organizations in the model area in the target countries. [Expected Module Output] 1:To deepen understanding on water sources, safe and stable water supply system and environmental management policy	[Target Organizations]: This program is designed for ministries at agencies in charge of water resources & sand environment management. [Target Group]: -Government official in planning and polimaking (Section Manager Level (2011/3) year)) -more than 5 years' experience in the field explained above			
Contents	Program Period	2011 /	8/27 ~ 2	2011 / 9 / 24
[Preliminary Phase in home country] Making of Inception report [Core Phase in Japan](Lectures, Practices, Field visit, Discussion and Presentation) 1. Hydrology and water resources including vulnerability assessment of global climatic changes, Development and management policy of surface water and groundwater, Distributed type of safe water supply system and ecological sanitation, etc. 2. Rainwater harvesting and infiltration to recharge groundwater, Advanced wastewater treatment and recycling reclaimed water applying simple and low cost technologies (by SHIMANTO Concept), Appropriate technology applications of ecological slow sand filtration and bio-toilet 3. Methods on planning and evaluation based on PCM, Implementation of workshop for planning and evaluation of projects 4. Preparation of action plans for respective countries [Finalization Phase in home country]	Implementing Partner JICA Center Cooperation Period	JICA	Shikoku	7, 0, 21
5. Submission of progress report	Remarks and Website			

The Second Executive Forum for En Asian Region 第2回アジア地域上水道事業幹部フ	hancing Sustainability of Urban Water Service in		PITD Int.Dialogue	1180117		
	<i>a</i> , , , , , , , , , , , , , , , , , , ,		40	norticinanta		
arget Countries: Asian Region			12	participants		
Sector : Water Resources/Disaster	r Management/Urban Water Supply					
Sub-Sector:						
Language : English	Appeal					
ureaus or public corporations, water	of relevant organizations in charge of water supply administratic associations in Asian region every 2 years. This 2nd forum focusion among organizations in water supply sector to solve problem	es on "Dialogue a	nd Collaboration"	, to build the		
	Objective / Output	Target	: Organization / Gro	auc		
ations including Japan and to promotorganizations in water supply sector to Expected Results. 1) To assess the problems that respectix (6) agendas analyzed in the 1st form a) Policy and administration of urbanco) Measures against non-revenue water and water quality manage. 2) To promote the partnership-building analyzed to promote the partnership-building and the supplementary of th	water supply b) Financing and Water Tariff System er d) Urban water service for the poor people	Target Organ Relevant organ	e of water ocal as or public ons			
	Contents	Program Period	0011 / 0 /00	0011 /10 /0		
ublic corporations, water associations - Case study of technical cooperation - Water Links: Asia's network for W - Case study of cooperation among w 3) Collaboration between public and p 4) Hints to solve the problems that re xperiences of each nation including J - Concrete measures to enhance and 5) Wrap-up and monitoring for the pr	ation in water supply sector among nations, waterworks bureaus is a under JICA scheme ater Operator Partnerships (ADB scheme) aterworks bureaus in Japan private sectors, businesses related water supply project espective organizations have encountered through learning from apan and cooperating among organizations in water supply sector promote the partnership-building ogress of participating organizations for the next forum ndance at the 4th IWA-ASPIRE (International Water Associations).	Implementing Partner JICA Center Cooperation Period Remarks and	2011 / 9/30 ~ Under Planning JICA Tokyo(Eco. 2011~2013 (Alt The 1st forum was January 2010 at Y The forum will be years and will not the year 2011.	nomy&Env.) ernately) s held in 'okohama. held every 2		

Non-Revenue Water Management (Leakage control) 上水道無収水量管理対策(漏水防止対策)		PITD :	Solution	1180229
Target Countries:			15	participants
Sector: Water Resources/Disaster Management/Urban Water Supply				
Sub-Sector :				
Language : English				
Appeal				
Japan has reduced the water leakage ratio by over 50% since the end of World War II (today 2.7% in Nago Nagoya teach practical techniques and skills through the various trainings at the staff training facilities where the staff training facilitie	nich allows us t			
Objective / Output	Target	Organiz	ation / Grou	up
by reveiwing it. 3rd)Making an action plan including the result of long-term plan and short-term solution plan. <objective each="" for="" unit=""></objective>	⟨Target Organization⟩Water Supply Util ⟨Expected Job Title⟩1 persons, Chief claperson familiar with business. ⟨Expected Job Experience⟩Over 10year. ⟨Other Qualifications⟩Persons are expeda core role for Leakage Control in same Water Supply Utilities during 3years.			Chief class 10years e expected as n same
Contents	Program Period	2011 / 1	$\frac{1}{0/31} \sim 2$	2011 / 12 / 17
The participant should understand the waterworks and management systems of the Nagoya Waterworks and Sewage Bureau, feature of leakage, water and leakage volume analysis, leakage control in Nagoya, leakage prevention works and planning, leakage detection equipment and operation principle, determination of the leakage, non-revenue water on construction, adjustment of distribution pressure, rehabilitation of distribution pipes, feature and selection of pipes, designing of distribution pipes,	Implementing Partner		Planning	, ,
performance of jointing pipes and water-meters, corrosion prevention of distribution pipes, drawing information of DP-maps, structure of receiving tank system and pump, metering and leakage inspection,	JICA Center	JICA C	`hubu	
leakage control on distribution office and branch office, jointing of distribution and service pipes, drilling in ferrule, structure of pump, water-meter manufacturing factory, ductile iron pipe manufacturing factory, special joint manufacturing factory, and menbrane purification plant.	Cooperation Period	2011~	2013	
accory, epocal joint manufacturing factory, and menorane purification plane.	Remarks and Website	Country "Non-re illegally program	Report whevenue wat used water a aims to le manageme	r. The earn about

Waterworks Engineering 上水道技術者	F	PITD Soluti	on	1180763
Target Countries:			10	participants
Sector: Water Resources/Disaster Management/Urban Water Supply				
Sub-Sector:				
Language : English				
Appeal				
This course contains the total viewpoint including water source management, purification, supply&distrib quality&quantity. It is very beneficial for problems solving in developing countries. Sapporo city is one of whole waterworks. Skillful engineers in Waterworks Bureau of Sapporo transfer systematic&concrete tech apply for their country are highly evaluated.	the rare large of	cities having	all faci	ilities about
Objective / Output	Target	Organization	/ Grou	up
after returning. Objective for each unit> To acquire knowledge and experiences to improve water purification plant and operation To acquire knowledge and experiences to improve water distribution and service To acquire knowledge and experiences to improve leak prevention To acquire knowledge and experiences to improve water source and water quality control To account eco-friendly water business management	<target organization="">Governmental, semi-governmental, or corporate organization charge of public water supply <expected job="" title="">Waterworks engineers governmental, semi-governmental, or corporate organizations in charge of public water supply <expected experience="" job="">To have at leasy years of practical experience for those university graduate or equivalent; or at leasy years of practical experience for those polytechnic graduates or equivalent <other qualifications="">in principal, under 4 years old</other></expected></expected></target>			
Contents	Program Period	2011 / 8/ 2	~ 2	2011 / 10 / 15
Design/integrated operation/maintenance of rapid-filter water treatment plant, Advanced water purification, Mechanism of water purification process, Slow-filter water treatment plant visit Water supply&distribution, Distribution pipe design/laying plan, Pipeline maintenance, Network analysis of pipes, Outline of service installation, Pipe&meter manufacturing plant visit, Disaster control, Water rate system, Call center	Implementing Partner	Sapporo Wa	terwoi	rks Bureau
Leak prevention planning, Block metering plan/operation, Leak prevention method/Detection Water source development & water problems caused by algae, Water source control/monitor/patrol, Water quality control/judgement by aquatic organism, Design of pumping facilities/drilling technology	JICA Center	JICA Sappo	°O	
for water well, Waterworks facilities utilizing ground water, Jar test Eco-friendly water supply business management and facilities	Cooperation Period	2011~2013		
Water supply & distribution in Sapporo & in Japan, Water circulation & its risk, Planning & demand projection, Water business in the world & Japan technology Country report presentation, Problem analysis, Mid-term consultation, Action plan, Progress report within 6 months	Remarks	Candidates a required to a the training o will to improv supply syster	ctively course ve the	y participate e, with strong

都市上水道維持管理		PITD 1	Trainers	1180870
			40	nartiainanta
Target Countries:			12	participants
Sector: Water Resources/Disaster Management/Urban Water Supply Sub-Sector:				
Language: English Appeal				
This training aims to transfer and disseminate Japan's technology of operation and maintenance of urban countries.	water supply to	filed en	gineers in	developping
Objective / Output	Target	t Organiza	ation / Gro	up
operation and maintenance of urban water supply system in partipating countries. (Expected Module Outputs) (1) Particiannts will be able to explain maintenance technologies of pipelines and service installations used in Osaka City. (2) Participants will be able to explain maintenance technologies of intake, treatment, distribution facilities. (3) Instruction plan about techniques of water supply which is applicable to participant's organization	⟨Target Organization⟩			
Contents	Program Period	2011 / /	c / c - '	2011 / 7 /20
Activity in Preliminary Phase in home country> (1) Discuss the issues and clear assignments for the participants among participating organizations. (2) Submit Inception Report and Questionnaire (Activity in Core Phase in Japan> Lectures (1) Maintenance of pipelines and water supply	Implementing Partner		6/6 ~ 2 Planning	2011 / 7/30
(2) Management of intake, treatment and distribution facilities Practice (1) Management of pipelines and water supply, technical trainers' training	JICA Center	JICA O	saka	
(2) Management of intake, treatment and distribution, trainers' training (3) Draft the instruction plan Observation (1) Factory of water supply equipments	Cooperation Period	2009~	2011	
(2) Water origin, Facilities of water intake, drainage, purification Discussion -Applicble techniques in participating organizations <activity country="" finalization="" home="" in="" phase=""> Instruction to engineers in participating organizations in 5 month after the training</activity>	Remarks and Website			

Water Supply Administration for Better Management of Water Supply Services 水道管理行政	ı	PITD Solution	on	1180915
Target Countries:			14	participants
Sector: Water Resources/Disaster Management/Urban Water Supply				
Sub-Sector:				
Language: English Appeal				
This course is designed for executive officers of water supply administration or waterworks bureau to shar safe and stable water supply such as regulation, operation and maintenance, water quality control, counterperformance indicators. This course focuses on "sound management of waterworks" and includes a discuss waterworks in Japan.	e experience in rmeasures for a sion with execu	n Japan on ad non-revenue tives/experts	ministr water, s relate	ration for and ed to
Objective / Output	Target	Organization	/ Grou	D
Japan, in particular, water quality control, measures against non-revenue water and water supply standards, to clarify the future subjects through sharing information and to formulate an improvement plan on the feasible basis. [Expected Results] (1) Sharing information on current situations and key problems in the participating countries (2) To be able to understand water supply administration, management and operation and maintenance in Japan (3) To be able to understand water quality management, in particular, water safety plans (4) To be able to understand the countermeasures for reduction of non-revenue water (leakage) (5) To be able to understand the water supply standards including water supply management guidelines	Target Organization / Group [Target Organization] The division / department in charge of administration management of water services in centra local government / waterworks bureau [Target Group] (1) To be executive off senior administrative officers such as between Director Generals and Direc Departments in Central Governments Director Generals of Departments or equivalent in waterworks bureau (2) To be expected to continue their ca the water supply field (3) To have a sufficient command of Eng			
Constants	Drogram Dariad			
Core Phase (1) Country report presentation, Improvement plan formulation	Program Period Implementing Partner	2011/10/ 2 Japan Intern Cooperation Services	ationa	1
(2) Water supply administration in Japan, History of water supply in Japan (3) Water quality control, Water safety plan, Public health and water supply (4) Countermeasures for non-revenue water, Relation to financial management	JICA Center	JICA Tokyo	(Econo	omy&Env.)
(5) Appropriate management of water supply management (International standards and Japan's	Cooperation Period	2010~2012		
guidelines, Performance indicators, discussion on sound management) (6) Field Visit (Water Treatment Plant) [Finalization Phase] Sharing of Improvement Plan in respective organizations within 6 months after the training in Japan	Remarks and Website	This course will be held 2 to in the fiscal year 2011. 1st: 2011/10/2 - 10/22 2nd: 2012/1/22 - 2/4 * Normally the duration of		

Engineering on Water Supply Systems 上水道施設技術	ı	PITD	Solution	1180944				
Target Countries:			13	participants				
Sector: Water Resources/Disaster Management/Urban Water Supply								
Sub-Sector:								
Language: English								
Appeal								
This program is designed for a engineer to obtain the integrated knowledge and technique of water suppl large-scale water supply services. <curriculum> [Practice] Water Demand Forecasting, Pipeline Network Design (Pipeline Network, Water Purification Facility) [Lecture] Waterworks Management, Regulation, Tactory, etc</curriculum>	k Analysis(hydro	ologic),	Basic Plann	ning and				
Objective / Output	Target	Organiz	zation / Gro	up				
[Objective]								
To draw basic plan drawings for a purification facility and pipeline network, and to formulate an action plan to solve problems that respective organizations have encountered [Expected Result] (1) To sort out the necessary technology for improvement of their water supply systems (2) To sort out the necessary functions and roles of related entities for improvement of their water supply management (3) To master the skill of basic planning and design for pipeline network and water purification systems (4) Through information and skill from this training, to formulate an action plan that solves problems their organizations have encountered, and to share the plan in respective organizations	utility, central/local government [Target Group] (1) To be presently i management position or a senior engi is currently or expected to be engage formulation of waterworks plan (2) To engineers with more than 5 years of experience in water supply and to be university graduates from the faculty engineering such as civil, sanitary, environmental, or have equivalent aca				supply planning or designing in a wate utility, central/local government [Target Group] (1) To be presently ir management position or a senior engir is currently or expected to be engaged formulation of waterworks plan (2) To engineers with more than 5 years of experience in water supply and to be university graduates from the faculty dengineering such as civil, sanitary, environmental, or have equivalent aca background (3) To be between 30 and			water supply atly in a engineer who gaged in the) To be of o be ulty of ', t academic
Contents	Program Period	0011 /	F/11 - G	2011 / 7 /07				
[Preliminary Phase]			$\frac{5/11 \sim 2}{\text{Water Wor}}$					
re Phase] Pipeline Network Analysis (hydrologic), Water Demand Forecasting, Basic Planning and Design	Implementing Partner	. 5						
(Pipeline Network, Water Purification Facility, Water Supply Systems) (2) Water Purification Process, Operation and Maintenance of Distribution Facilities, Construction of	JICA Center							
Water Supply Facilities, Countermeasures of Water Leakage Prevention (3) Waterworks Management and Tariff System in Japan, Observation of Manufacturing Factory, Sanitation Research Organization, Small-scale Hydraulic Power Generation Plant (4) Country Report Presentation, Action Plan Presentation,	Cooperation 2010		~2012					
【Finalization Phase】 Sharing of Action Plan in respective organizations within 3 months after the training in Japan	Remarks and Website	and						

Westerward a Engineering in Cold Climate Pagians	D	RTD Traine	rc	1184143
Waterworks Engineering in Cold Climate Regions 寒冷地上水道技術	Г	KID ITAING	rs	1104143
Target Countries: Those in Cold Climate Regions			6	participants
Sector: Water Resources/Disaster Management/Urban Water Supply				
Sub-Sector :				
Language: Russian				
Appeal				
This program is for senior engineers to improve knowledge & techniques of waterworks engineering to pro-	opose feasible s	olutions for th	eir is	sues.
Objective / Output	Target	Organization /	/ Grou	ar
<u> </u>				
Expected Outputs 1 1) To acquire knowledge and experiences to improve water treatment facilities and water treatment nethod in the participant's country 2) To acquire knowledge and experiences to improve water distribution, service installation, maintenance, and water charge systems in the participant's country 3) To acquire knowledge and experience to improve leak prevention in the participant's country. 4) To acquire knowledge and experiences to improve water quality control in the participant's country 5) To acquire particular knowledge and experiences in cold climate regions to improve water supply system in the participant's country	[organization]			
Contents	Program Period	2012 / 1/11	\sim 2	012 / 3 / 3
preparatory phase each participant prepares country report to identify issues core phase 1 1) visit/structure/design/operation of water purification plant, advanced water purification (membrane) 2) distribution resorvoir/pipe laying plan, pumping station, maintenance, design & quantity calculation for new installation, construction site, networks analysis, manufacturing plant, metering, charge	Implementing Partner	Sapporo Wat	erwoi	rks Bureau
collection, call center, metering site, environmentally conscious management 3) leak prevention/planning/detection/on-site prevention method, block metering 4) water quality control, water source & algae, design/pump/drilling of pumping station, bioassay	JICA Center			
5) country repot presentation, problem analysis, discussion, action plan consultation/presentation finalization phase	Cooperation Period			
share the knowledge based on action plan, then report its progress to JICA	Remarks	strongly y participate to solve the ks r countries.		

Management of Urban Water Systems for Southeast European Countries	P	RTD Solution	1184184
南東欧地域 都市上下水道事業管理			
Target Countries: Southeast European countries		10	participants
Sector: Water Resources/Disaster Management/Urban Water Supply			
Sub-Sector:			
Language: English			
Appeal			
Participants, urban water system responsibles, propose action plans to improve their situation upon acqu	ring knowledge	of Japanese syste	em
	-	0 : " /0	
Objective / Output	_	Organization / Gr	oup
Objective Every participant shares and implements "Action Plan" in respective organization, and then officially reports its progress to JICA		l semi-government	al. or
Expected Outputs	corporate orga	nizations in charg	ge of
1) To grasp the outline of urban water service in Japan, and identify issues of their own organizations 2) To identify the issues of financial management of urban water systems of participants' organization	management of Personal Qua	`urban water syst lifications	tems
3) To identify issues of water treatment systems and water quality control—to improve quality of the	Current Dutie	es> -	
water. 4) To identify issues in maintenance of urban water service facilities of participating organizations.	managerial officers, engine	cers, staff membe	rs, government
5) To propose "Action Plan" describing appropriate methods and techniques to improve urban water	(Xbeing engin	eer is NOT an es	
systems management		owever, daily inv stems-related wo	
	indispensable.)		
	<experience>m</experience>	ore than 3 years	working
Contents	Program Period	2011 / 6/21 ~	2011 / 7/30
Preparatory Phase each participant prepares Job Report to identify each issues		Hokkaido Unive	
Core Phase (1) water supply/sewerage administration in Japan, water supply/sewerage administration in sapporo,	Implementing		
latest water treatment plant	Partner		
(2) financial management system(basic theory and actual case), collection of water charge, asset			
management of water and wastewater treatment plants, PCM (3) global trend of watershed management, new concepts of water management, water purification plant	JICA Center	JICA Sapporo	
and water quality control, advanced wastewater treatment and reuse, assessment of the human health	Cooperation	2009~2011	
risk , new technology for water/wastewater treatment, new trends and techniques (membrane), world water situation	Period		
(4)physical structures/networks maintenance of distribution system, leak prevention			
(5) discussion, action plan preparation/presentation, PCM workshop [Finalization Phase] every participant share its AP in home organization, then reports its progress to			
JICA	Remarks and		
	Website		

African Region Urban Waterworks Engineering アフリカ地域都市上水道技術者養成	P	PRTD	Trainers	1184337
Target Countries: African Region			10	participants
Sector: Water Resources/Disaster Management/Urban Water Supply				
Sub-Sector:				
Language: English				
Appeal				
Following the statement of TICAD 4 which was held in May 2008, in Yokohama, this program is propose Region by transferring useful and practical know-how on water supply for urban waterworks senior engine and maintenance of water supply system.				
Objective / Output	Target	Organiz	ation / Gro	
				ир
[Objectives] Knowledge on integrated waterworks management and solution on specific issues will be understood and will be spread out through the program.	[Target Organizations] Central or provincial government, or ir bodies in charge of waterworks enginee			
[Outputs] 1. To understand the history, system, and challenges of water works in Japan, and to be able to compare with the situation of the respective country 2. To understand the basic water works technology, such as filtration plan mechanism, water purifying, water supply system, and prevention of water leakage, and to be able to compare with the situation of the respective country. 3. To understand the integrated/efficient water works management system considering environment. 4. To formulate the Draft Action Plan to resolute the specific issue(s).	[Target Group] 1. Senior technical officers in charge waterworks engineering in central or government, or in local bodies. 2. At least ten (10) years of practical experience in this field. 3. University graduates or persons we quivalent technical qualifications in waterworks engineering.			l or provincial tical as who have
Contents	Program Period	2011 / 1	1/6~	2011 / 12 / 3
[Preliminary Phase]	1			· Co., Ltd,
1. Preparation of Inception Report on waterworks in each country. [Core Phase in Japan] 1. Lectures, observations, and discussions on followings will be conducted.	Implementing Partner		'Yokohama	
* History, system, and challenges of water works in Japan * Basic water works technology, such as filtration plan mechanism, water purifying, water supply system, and prevention of water leakage in Japan,	JICA Center	JICA Y	okohama	
* Integrated/efficient water works management system. 2. Development of the draft action plan, and its presentation and discussion.	Cooperation Period	iod		
[Finalization Phase] 1. Presentation and discussion of the draft action plan among the stakeholders in respective countries. 2. Submission of the final report on action plan.	City of Yokoh http://www.c /en/ Remarks and Website			: okohama.lg.jp

Speaking African Co	erment through Safe Water Management for Arid Regions in French ountries 地域 村落飲料水管理	F	PRTD	Solution	1184248	
Γarget Countries: Ar	id Region in French Speaking African Countries			12	participants	
Sector: Wate	er Resources/Disaster Management/Rural Water Supply					
Sub-Sector:						
Language : Fre	nch					
	Appeal					
	aims to enable participants to obtain neccesary knowledge and skills for establishin der-sensitive operation and maintenance system for safe drinking water supply in a				ıble,	
	Objective / Output	Target	t Orgar	nization / Gro	up	
Objective]					1	
The official plan to estaintenance system for y the organizations to the Expected Module On To acquire knowled quantity, quality, tree. To Acquire knowled an intenance system for Propose an "Action"	or safe drinking water supply in a small-scale community is formulated/improved to which the participants are belonging.	Taget Organization d Central/local government and NGOs of in safe drinking water supply and /or management in small-scale communities [Expected Qualification] 1. Government officials/NGO staffs 2. More than three (3) years of practical/research experiences in the refield 3. More female participants are recommed to the competent language skill in French and written)				
	Contacts	Drogram Daried				
Dualiminar- Dl In	Contents	Program Period			2011 / 12 / 17	
Phase in Japan]) Safe drinking water lealth services and d rinking water supply	repare and submit a Country Report and Gender Report supply in small-scale community: rinking water supply in small-scale communities, Appropriate technology for Groundwater utility, Sanitation, Biomass circulation & environmental	Implementing Partner	9			
	mental contamination, Drinking water utilization patterns lls to organize a community participation system:	JICA Center	JICA	Sapporo		
	ent, Gender mainstreaming, Micro-credit, Communication for community	Cooperation				
articipation) Action Plan: Proiec	ct Cycle Management (PCM), Country Report presentation, Preparation and	Period				
resentation of an "A Finalization Phase ir		and				

Local Emergency Operation Plan with Flood Hazard Map 洪水ハザードマップを活用した地域防災計画 PRTD Solution 1184064 Target Countries: Country with frequent flood disasters participants 9 Sector: Water Resources/Disaster Management/Wind and Flood Disaster (Flood Control) Sub-Sector : Language : English Appeal There are increasing tendencies of occurrence of flood disasters especially in Asia and the importance of Flood Hazard Maps (FHM) has been recognized. However, preparation and dissemination of FHM is not sufficient to ensure early evacuation of residents. It is essential to enhance the local capacity by preparing "Local Disaster Management Plan". It this training course, participants study knowledge and technologies related "Local Disaster Management Plan" which covers the information of disaster management facilities, FHM, flood forecast/warning systems and evacuation plan, and draft future plans through the cooperation with their organizations to reduce flood damage. Objective / Output Target Organization / Group Objective Strategies and schedules for the formulation of local disaster management plans combined [Target Organizations] with flood hazard maps and flood forecasting/warning systems are made. This program is designed for government officials to make strategies and schedules for 1. To identify the current problems and issues on flood disaster countermeasure. the formulation of local disaster management 2. To develop a training plan to set the direction for a local disaster management plan and a mid-term plan combined with flood hazard map and flood operation schedule. forecasting/warning system in each country. [Target Group] 3. To identify the current problems and issues for obtaining data to conduct hydrological and flood Government officials in the field of flood analysis. 4. To develop a flood hazard map and sample anticipated inundation area map for solving the current disaster management plan with experience in flood disaster management or relevant field. problem and issues in each country. 5. To identify the relationship among flood hazard maps, forecasting/warning systems, and evacuation -First year: the executive officers Second year: technical officers plans in local disaster management plans. 6. To develop outlines of stragies and schedules for the formulation of local disaster management plans Third year: middle level officers for selected target areas. Contents Program Period $2011 / 7 / 3 \sim 2011 / 8 / 3$ [Preliminary Phase] To make an Inception Report on present situation in the field of local emergency ICHARM, Public Works operation plan in each country. Research Institute Implementing Core Phase in Japan Partner To understand the overall view of local emergency operation plan through lectures, practical exercises and site visits. (1)General knowledge of flood disaster countermeasures IICA Tsukuba JICA Center (2)Awareness-raising of local residents' groups, Interviews with municipalities and local residents on (Training&Partnership) disaster awareness, etc Cooperation 2009~2011 (3)Fundamentals of flood hazard mapping (Inundation analysis, GIS, etc.), "Town Watching" exercises, Period Production of a sample anticipated inundation map (4)General knowledge of flood disaster countermeasures This course is planned to develop participants' capacity (5)Project Cycle Management exercise training Making an "Action Plan" for making a local disaster management plan

[Finalization Phase] To share the Action Report in the participants' organization, and develop/submit

the Final report to JICA.

Disaster Risk Management Technology on Volcanic Eruption, Debris Flow and Landslide 火山学∙総合土砂災害対策	ı	PITD L	_eaders	1180876
Towns Countries			15	participants
Target Countries:			10	participants
Sector: Water Resources/Disaster Management/Soil and Water Disaster				
Sub-Sector:				
Language: English				
Appeal				
This course is to improve participants' technology on volcanic observation or Sabo who will be keypersor	is in those field			
Objective / Output	Target	: Organiza	ation / Gro	up
Participants of this course are expected to improve their technology on volcanic observation or comprehensive sediment management and be able to enhance their capacity on making countermeasures to the disaster prevention / mitigation of their countries. [Common Program] to understand and be able to explain: (1) the basic common knowledge of volcanology and erosion & sediment control engineering (2) the administration of disaster management in consideration of inhabitants' participation. [Volcanology Course] to understand and be able to explain: (1) basic knowledge of volcanology (2) and to be able to carry out volcano observation data analysis and interpretation [Sabo Course] to understand and be able to explain: (1) basic knowledge of erosion and sediment control engineering (2) basic mechanism of sediment—related disasters such as debris flow (3) comprehensive sediment—related disaster prevention measures, structual and non—structual measures (4) the environmentally—sound comprehensive sediment management	<target organ<br="">Works, Ministr of Volcanology Geophysics.</target>	y of Wat	er Resour	ces, Institute
Contents	Program Period	2011 / 3	7/13 ~ 2	2011 / 12 / 17
This course consists of 3 components, i.e. common program, thematic program (volcanology or sabo) and individual program. The key component of this course is the individual program. Each participant will conduct 3/4 months individual training / research at university, volcano observatory, institution or fundation based on interests of the participating personnel and their organization. The theme of	Implementing Partner		Technic	al Center
individual program will be set by the needs clarification form. As a result of individual training/research, each participant will be required to make a final report and present to the curriculum committee members.	JICA Center	JICA To	okyo(Econ	nomy&Env.)
Common Program (1)Basic common knowledge of volcanology and sabo Volcanology Course (1) Basic knowledge volcanology	Cooperation Period	2009~		
(2) Methodology of observation [Sabo Course](1) Basic knowledge of sabo engineering (2) Structual measeures (3) Non-structual measures [Individual Program](1) Individual training / research and making a final report	Remarks and	(originall was pos 11 earth	tponed du quake. Tl eduled and	from March) e to March his program

Operating Management of Earthquake, Tsunami, and Volcano Eruption Observation Leaders 1180035 ystem 也震津波火山観測システムの運用・管理 participants Target Countries: Frequently disasters by earthquake, tsunami, or volcano eruption. Sector: Water Resources/Disaster Management/Earthquake Disaster Sub-Sector : Language : English Appeal A simple concept such as evacuating a seashore after a strong quake should mitigate tsunami victims. However, developing countries have no mitigation programs, and damages are expanding. In the training, through lectures, field work, and discussions at the university, participants learn about disaster mitigation (including lessons from failures) and establishing strong monitoring systems. They develop the skills to act as key persons in the JICA mitigation programs in their countries. Objective / Output Target Organization / Group Course Objective (Target Organization)government agencies or The participant should understand the earthquake disasters based on our history and establish the universities, considering for earthquake, disaster mitigation programs. The elemental knowledge on seismology and the disasters and fundamental tsunami, and volcanic eruption disaster skill are acquired. Cooperation including JICA projects is extended for the development of mitigation. Expected Job Title>High-ranking employment Objective for each unit> title from higher rank or chief The participant should be able to understand and explain the seismic activity, the generation Expected Job Experience an experienced mechanism of the tsunami and the volcanic activity, and these historical disastersin in the home person of at least 5-10 year in this countries and the world. S/he should be able to understand and explain some dominant features and employment problems of the onsite warming system. S/he should be able to explain precisely the feature and the Other Qualifications>Graduation from master problem of the earthquake, tsunami, and volcanic eruption disasters in Japan. S/he should be able to degree or PhD are accepted explain the current state and the problem of monitoring system of earthquakes, tsunami s and volcanic eruptions of the home country. S/he should understand the technique of observation and analysis of the earthquakes and conduct the observation and measurements. Program Period Contents $2011 / 9 / 4 \sim 2012 / 2 / 29$ Nagoya University Implementing Partner IICA Chubu JICA Center Cooperation 2011~2013 Period This course is mainly based on

Seismology, Earthquake Engineering and Disaster Management Policy 地震·耐震·防災政策	I	PITD Leaders	1180875	
Target Countries:		1	9 participants	
Sector: Water Resources/Disaster Management/Earthquake Disaster				
Sub-Sector :				
Language: English				
Appeal				
This program is provided to technical officials, engineers or researchers of governmental organizations co engineering and disaster mitigation. This program aims to develop the participant's capacity to establish, nitigation technologies for contributing to reduce the damage of earthquake disasters in their countries.				
Objective / Output	Target	Organization / (Group	
			•	
To enhance the participant's capacity to contribute to the development and dissemination of earthquake disaster mitigation techniques under consideration of actual conditions, regulations in their countries and region. [Outputs] 1. To be able to explain basic concept and theory on Earthquake Mechanism and Earthquake Resistant Design inevitable to establish the Seismic Disaster Mitigation. 2. To be able to explain basic concept and theory on Seismic Hazard Evaluation, Seismic disaster Mitigation Policy and Earthquake Countermeasures inevitable to establishing Seismic Disaster Mitigation Scheme. 3. To improve participant's capabilities to apply techniques and knowledge acquired through their studies on individual topics and to make Master Thesis / Action plans in order to solve problems in their respective countries.	[Target Organizations] e This program is designed for the gove organization concerning to seismology earthquake engineering and disaster mitigation. [Target Group] 1. Target person: Administrative offic engineers/ researchers in charge of seismology, earthquake engineering and disaster mitigation. 2. Experience in the relevant field: mothree years' experience. 3. Be university graduates in seismologearthquake engineering or seismic dismitigation, or in science and technological experience.			
	December Decirel			
Contents	Program Period		~ 2012 / 9 / 15	
Preliminary Phase To make an Inception Report on current situation related governmental policy on seismology, earthquake engineering and disaster mitigation in their countries. Core Phase in Japan To acquire the necessary skill and technique related governmental policy on seismology, earthquake	Implementing Partner	g Research PS		
engineering and disaster mitigation through lectures, discussions, research, practical exercises and site visits, etc.	JICA Center	JICA Tsukuba (Training&Par		
(1)Introduction to Seismology, Earthquake Engineering Earthquake mechanisms, Structural analysis, Basic concept of Seismic design (2) Seismic design, Seismic evaluation & retrofitting, etc	Cooperation Period	inoronip)		
(3) Technologies on seismic hazard assessment, Damage and risk assessment, etc. (4) Disaster Management Policy: Policy making on earthquake disasters, Disaster Risk Management, etc. (5) Others: PCM, On-site-visit, Practice of earthquake disaster prevention	Remarks	no have nieved required awarded a e, 'Master of tion', by GRIPS		

Sector: Water Resources/Disaster Management/Earthquake Disaster Sub-Sector: Language: English Appeal This program is designed to introduce up-to-date technologies and knowledge in the field of seismological of		participants	
Sub-Sector: Language: English Appeal This program is designed to introduce up-to-date technologies and knowledge in the field of seismological of		participants	
Sub-Sector: Language: English Appeal This program is designed to introduce up-to-date technologies and knowledge in the field of seismological of			
Language: English Appeal This program is designed to introduce up-to-date technologies and knowledge in the field of seismological ol			
Appeal This program is designed to introduce up-to-date technologies and knowledge in the field of seismological of			
This program is designed to introduce up-to-date technologies and knowledge in the field of seismological ol			
This program is designed to introduce up-to-date technologies and knowledge in the field of seismological ol test monitoring technology, and the participants are expected to play important roles in a global monitoring			
Objective / Output	Target	Organization / Group	
To acquire knowledge and advanced techniques of global seismological observation for playing important roles in the monitoring system of nuclear tests under the CTBT. [Outputs] 1. To acquire knowledge of the CTBT regime and the role of seismology in the International Monitoring System (IMS). 2. To understand global seismological observation technologies for monitoring nuclear tests and earthquakes. 3. To acquire data analytical techniques to discriminate nuclear tests from natural earthquakes. 4. To Make an Action Plan (Project Proposal) which they should do in their country after a homecoming. 3 y 3. G 5 successions and seismological observation technologies for monitoring nuclear tests and earthquakes. 3. To acquire data analytical techniques to discriminate nuclear tests from natural earthquakes. 4. To Make an Action Plan (Project Proposal) which they should do in their country after a succession of the CTBT.	[Target Organization] t This program is designed for a governm organization which is expected to play important roles in a global monitoring n on nuclear tests.		
Contents Pro	rogram Period	$2012 / 1/11 \sim 2012 / 3/9$	
To understand the overall view of the global seismological observation through lectures, practical exercises and site visits.	nplementing Partner	IISEE (Building Research Institute)	
	ICA Center	JICA Tsukuba	
(2)Seismological Observation, National Data Center	Cooperation	(Training&Partnership) 2009~2011	
• Seismometer, Seismic Network, Design of Seismic Network, National Data Center (3)Data Processing, Data Analysis, Nuclear test identifying method	Period	2009~2011	
 Retrieval of Digital Seismic Data and Disposal of Format, Introduction to UNIX, Analysis of Teleseismic waves, Seismic Array Data Analysis, Discrimination by mb-Ms, Seismicity and Tectonics, 	IISEE Web Site: http://iisee.kenken.go.		
• Making an Action Plan, and Presentation of Action Plan	Remarks and Website		

DRR (Disaster Risk Reduction) Strategy for Urban Earthquake 都市地震災害軽減のための総合戦略		PITD S	olution	1180892
Target Countries:			10	participants
Sector : Water Resources/Disaster Management/Earthquake Disaster				
Sub-Sector: Urban/Regional Development/Other Urban and Regional Development Issues				
Language : English				
Appeal				
To promote a holistic & comprehensive strategy urban earthquake DRR in seismic prone countries by tr knowledge & tools.	aining leaders of	DRR to g	get the es	ssential
Objective / Output	Target	: Organiza	tion / Gro	up
Objective DRR (Disaster Risk Reduction) strategy for urban earthquake, which is based on a pro-active approach of DRR utilizing various tools and knowledge in risk assessment, risk management, and risk communication, is to be studied and built at each organization to implement urban earthquake DRR. [Expected Results] (1)Risk Assessment and its Tools and Knowledge (2)Risk Management and its Tools and Knowlede (3)Risk Communication and its Tools and Knowledge (4)International Activities for Urban DRR and Education for Leaders (5)DRR strategy for urban earthquake is to be studied and built at each organizations to implement urban earthquake DRR <finalization phase=""></finalization>	Target Organ Organizations disaster risk re research institt Target Group 1) Current Dut specialist,resen presently enga of urban city. 2) Experience than 2 years'	which conduction (Intion, media) ities: be a correction of the property of the	duct urba DRR) (gov dical insti public off neer or m actical ser	vernment, tution etc.) icer,technical nedical staff rvice of DRR d: have more
Contents	Program Period	2011 / 6	/12 ~ S	2011 / 8 / 4
[Pleliminary Phase] Preparation for country report [Core Phase] (1)Earthquake Mechanism,Seismic Ground Motion & Hazard Map,Building Codes, Lifeline Damage Assessment.	Implementing Partner	Kobe Univ. (Res for Urban Safety		
(2) Recovery of Kobe City & Community, Disasters Medical Response & Public Health, Environmental Impacts of Disasters, Economic Impacts of Earthquake (3) IT for Emergency Management, Disaster Information Sharing, Education for DRR	JICA Center	JICA Hy	ogo	
(4) Int. Collaborations for DRR, Inter-national Organization on DRR and Educational System	Cooperation	2009~2	011	
Formulation and submission of the action plan and its progress report within 3 month. Finalization Phase Formulation and submission of the action plan and its progress report within 3 month. Intenational certification UNDP,UNI. Remarks and remote lect website home count http://www.				

Tsunami Disaster Mitigation 津波防災 PRTD Solution 1184165 participants Target Countries: Tsunami disaster prone countries in Asia and Pacific Region Sector: Water Resources/Disaster Management/Earthquake Disaster Sub-Sector : Language : English Appeal This program is provided to technical officials, engineers or researchers of governmental organizations concerning to earthquake and tsunami disaster mitigation. This program aims to develop the participant's capacity to establish, utilize and disseminate tsunami disaster mitigation technologies, which is the establishment of Tsunami Early Warning system and development of Tsunami Hazard Assessment, contributing to reduce the damage of tsunami disasters in their countries. Objective / Output Target Organization / Group [Objective] 【Target Organizations】 To develop and propose a draft for Tsunami Early Warning system and a draft for Tsunami Hazard This program is designed for the governmental Assessment in their countries. organization concerning to earthquake and Expected Results tsunami disaster mitigation. 1. To sort out the problems concerning to tsunami disaster mitigation for establishment of Tsunami [Target Group] Early Warning System and Tsunami Hazard Maps. 1. Target person: Administrative officers 2. To acquire basic concept and theory of generation, dispersion and regurgitation of tsunami caused by and/or engineers and/or researchers in charge earthquake as a basic knowledge inevitable to tsunami disaster mitigation. of tsunami disaster mitigation. 3. To acquire basic concept and theory of Tsunami Early Warning System, Tsunami Hazard 2. Experience in the relevant field: more than Evaluation(maps), Tsunami Disaster Mitigation Policy, Tsunami Disaster Mitigation Countermeasures. 3 years' experience. 3. To be university graduates in Seismology, Tsunami or Their Disaster Mitigation, or be 4. To make the improvement plan of both Tsunami Early Warning System and Tsunami Hazard Evaluation/maps. university graduates in Science and Technology other than the above mentioned subjects. Contents Program Period $2011/10/2 \sim 2012/9/15$ [Preliminary Phase] IISEE (Building Research To make an Inception Report on current situation related governmental policy on tsunami disaster Institute), GRIPS Implementing mitigation in their countries. Partner [Core Phase in Japan] To acquire the necessary skill and technique related to tsunami disaster mitigation through lectures, discussions, exercises and site visits, etc.
(1)Information Technology Related with Earthquake and Disasters: IICA Tsukuba JICA Center •Earthquake Phenomenology, Earthquake Circumstance, etc. (Training&Partnership) 2)Tsunami Simulation, Tsunami Generation and Propagation, etc. Cooperation 2009~2011 (3)Tsunami Hazard Assessment, Tsunami Countermeasures: Period •Tsunami Hazard Map, Tsunami Early Warning System and Dissemination, etc. (4)Disaster Management Policy: Seismic Disaster Mitigation Policy, etc. Participants, who have successfully achieved required (5)Others: PCM, On-site-visit, Practice of earthquake disaster prevention credits, will be awarded a Finalization Phase Remarks Master's Degree, 'Master of To share the technical report (Action Plan) in the participants' organization, and develop/submit the Disaster Mitigation', by GRIPS and

Website

and BRI.

Final report to JICA.

Reinforcement of Meteorological Services 気象業務能力向上 PITD Trainers 1180780 Target Countries: Member States of WMO (World Meteorological Organization) participants Sector: Water Resources/Disaster Management/Meteorology Sub-Sector : Language: English Appeal This is a unique course that provides comprehensive knowledge and techniques on meteorology and climatology. Most of the lectures are provided by staff members of the Japan Meteorological Agency, one of the most advanced meteorological services. In this training course, participants also visit various kinds of fields which utilize weather information. At the end of the course, every participant is requested to formulate an action plan to improve the meteorological service in his/her country. Objective / Output Target Organization / Group Course Objective Target Organization>National Meteorological This course aims at promoting activities to reinforce the meteorological services of each country and Hydrological Services applying meteorological data/products such as numerical weather and climate prediction and satellite Expected Job Title>Be meteorological images for disaster risk reduction and climate change adaptation. officials classified as "Meteorologist" according to the World Meteorological Organization (WMO) personnel categories, Objective for each unit To be able to explain the fundamental technique such as numerical weather prediction (NWP), satellite meteorology. Expected Job Experience>Be presently To be able to make up meteorological information which meets users' requirements based on engaged in meteorological services for their fundamental techniques such as NWP and satellite meteorology. governments or government-related public Weather Forecasting Course) To be able to brief general condition of climate and global environment organizations, and make up climate prediction applying climatological and global environmental information. Other Qualifications>Be familiar with and (Climatology Course) To draw up a master plan to improve the meteorological services of the have experiences of using basic PC software participants' organizations, and to be used in participants' countries. Not be serving in the military Contents Program Period $|2011/9/13 \sim 2011/12/17$ Lectures on the basics of numerical weather prediction and its application. Japan Meteorological Agency Lectures on the outline of satellite meteorology and application of satellite data. Implementing Lectures on the global telecommunications system. Partner Exercises on satellite data application. Exercises on operational forecasting. Lectures on the knowledge and skill to make up meteorological information which meets users' IICA Tokyo(Economy&Env.) JICA Center requirements. Lectures on the climatological and global environmental information. Cooperation 2011~2013 Exercises on the application of climatological and global environmental information. Period Creation, presentation and discussion of final report [After the training course] Implementation of activities to transfar the knowledge and expertise to Japan Meteorological Agency colleages to improve the meteorological services of participants' organiations (follow-up survey with

questionnare).

http://www.jma.go.jp/jma/inde

Remarks

and Website xe.html

-119-

Satellite Remote Sensing Data Analysis Technology for Disaster/Environmental	F	PITD T	rainers	1180068
Monitoring 災害・環境監視のための衛星リモートセンシングデータ解析技術				
arget Countries: Hoping for improving SAR data analysis			9	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				
Sub-Sector:				
Language : English				
Appeal				
emote-sensing data show actual land surface for disaster/environmental measurements. The synthetic a nalysis and the recovery planning during bad weather. This program deals with SAR data analysis technol arious measurements. Through this program trainees are expected to master the technology and to prov gencies.	ology with geogr	aphic inf	ormation	system for
Objective / Output	Target	Organiza	tion / Gro	up
Course Objective>	<target organi<="" th=""><th></th><th></th><th></th></target>			
to be able to carry out basic and advanced processing of SAR data to be able to apply SAR and other data to disaster/environemntal monitoring and integrate the data into map information	responsible for remote sensing data a related to disaster/environmental moded (Expected Job Title>be engineers or researchers in the field of remote ser related to disaster/environmental management, be likely promoted to n (Expected Job Experience>People whomore than 3 years experience in optidata/image analysis, but have little e			I monitoring s or sensing l to managers e who have optical
Contents	Program Period	2011 / 8	/ 2 ~ 5	2011 / 9 / 10
At home Report making of the situation of remote sensing their own country. In Japan troduction to remote sensing, ALOS system and product, case study for disaster/environmental onitoring, online data search, principle of SAR, SAR data correction, Principle of interferometric SAR nSAR), principle of polarimetric SAR (PolSAR), analysis of PALSAR level 1.5 dataAnalysis of PALSAR	Implementing Partner	Under P		
vel 1.0 data, Interferometric SAR analysis, polarimetric SAR Analysis, applied analysis of optical data or disaster monitoring and environment monitoring, integrated use of the analysis results and map	JICA Center	JICA To	kyo(Ecor	nomy&Env.)
formation (including ground truth), applied analysis of SAR data for disaster monitoring and avironment monitoring, Integrated use of the analysis results and map information, case study	Cooperation $2011 \sim 2013$			
At home acquired technology in their own and related organizations, output presentation At home acquired technology in their own and related organizations, output presentation are the result of case study and a proposal to use and to disseminate in organizations.	Remarks and Website			

Disaster Mitigation, Preparedness and Restoration for Infrastructure インフラ施設の自然災害に対する抑止・軽減対策及び復旧対策	ı	PITD Trai	iners	1180221
Target Countries:			15	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				· · · · · · · · · · · · · · · · · · ·
Sub-Sector: Urban/Regional Development/Other Urban and Regional Development Issues				
Language: English				
Appeal				
Japan has experienced various disasters, has taken various measures to protect infrastructures from thos various data have been stored and various measures have been taken from Hanshin Earthquake in 1995. various measures to protect infrastructures such as road, river and port from kinds of disasters.				
Objective / Output	Target	: Organizatio	on / Grou	nb
disaster mitigation, preparedness and restoration, and make dissemination plan for their organization in charge of relevant fields. Following are objectives for each unit. [1 Disasters and their characters] To analysie the nature of disaster in home country and to understand the similarities and differences with Japan. [2 Disaster Prevention Systems and Restoration Systems] To understand consider application, the introduction and improvement of disaster prevention systems and restoration system. [3 Disaster Mitigation and Restoration] To understand new confidence and capabilities for the application of special engineering methods for practical disaster prevention, mitigation and restoration. [4.Balance of utility and disaster] To understand the relation and the balance between utility and disaster or between lifecycle cost and disaster in infrastructure development projects. [5 Dissemination Plan] Plan to disseminate applicable techniques to the other engineers will be developed. [6 Activity after the fact] To completely disseminate and share the applicable technologies (knowledge) to their own countries learned in this training course to their office.	central or local assume position works in the ex <expected job<="" td=""><th>n charge of or public wo octed Job Ti I governmer ns in charge vent of a ma Experience lated field Educations duates or ha alifications i</th><th>disaster orks (Ro tle>be (nt who he e of rest njor disa e>More < Othe al Backg ve equi in infras</th><td>r prevention lad, River and officials of hold or will location lister than five er ground: Be valent httructure</td></expected>	n charge of or public wo octed Job Ti I governmer ns in charge vent of a ma Experience lated field Educations duates or ha alifications i	disaster orks (Ro tle>be (nt who he e of rest njor disa e>More < Othe al Backg ve equi in infras	r prevention lad, River and officials of hold or will location lister than five er ground: Be valent httructure
Contents	Program Period	2011 / 7/	4 - 0	0011 / 0 / 9
Objective 1 (1)Natural Disasters in Japan (2)Natural Disasters and its analysis in Each Country (Objective 2) (1)Observation techniques (2)Disaster prevention policy (3)Disaster mitigation and restoration systems (4)Warnig system / Hazard mapping (Objective 3) (1)River improvement(River, Dam) (2)Sobo works(Sabo, Landslide) (3)Road works(Road, Bridge) (4)Sea coast, Port (5)Quake-resistance (Objective 4) (1)Regional disaster mitigation plan (2)Restoraton plan for disaster prevention (3)Asset	Implementing Partner	Under Pla	nning	2011 / 9/3
management	JICA Center	JICA Osal	Ka	
Objective 5] (1)Issue analysis workshop for planning (2)Formulation of dissemination plan (3)Presentation of dissemination plan Objective 6] (1) Holding seminars for dissemination in their office after finishing this training course	Cooperation Period	13		
(2) Submitting the report on their dissemination activities six months after finishing this training course to JICA		http://www html	v.mlit.go	o.jp/index_e.

Rescue Techniques 救急救助技術		PITD T	rainers	1180342
Target Countries:			10	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				panina panina
Sub-Sector:				
Language: English				
Appeal				
Γο help leaders of fire fighting and first rescue organizations improve emergency rescue techniques, dissendence countries.	eminate the tec	hnique in	the partic	cipants'
Objective / Output		Organiza		
Participants are required to obtain basic necessary knowledge as the leaders of firefighting and first rescue service, as well as to acquire the knowledge/technique to rescue victims from life—threatening circumstance. To learn the fundamental knowledge and skills to rescue the disaster victims facing dangerous situation caused by accidents such as earthquake, fire and unable to evacuate by themselves. To learn basic knowledge and techniques of emergency rescue measures including artificial respiration, cardiopulmonary resuscitation, stop bleeding method, immobilization techniques etc. To acquire necessary knowledge for a leader of first rescue activity. To gain necessary knowledge and technique so that the participants could formulate the draft plan of numan resource development in participants' workplaces by disseminating the knowledge and technique they learned.	least three-year experiences in rescue operations, and are currently engaged opera			
Contents	Program Period	2011 / 0	/26 ~ 9	2011 / 12 / 17
Training (basic actions, using rescue instruments (ladder, ladder truck), water rescue, climbing techniques, descending techniques, mountain rescue, collapsed building, entry and rescue etc.) Lectures and practical trainings Joint training with Japan Disaster Relief Team (JDR) Entry and rescue training etc.	Implementing Partner		1unicipal	
· Lectures on rescue command techniques · Visits to local fire service departments	JICA Center	JICA Os	saka	
Lectures and observations on countermeasures to special disasters caused by hazardous materials Observation of relevant manufacturers and installation.	Cooperation Period			
	Remarks and Website	Training has poter slightly.		this course ange

Fire Fighting Techniques 消火技術	1	PITD T	Trainers Trainers	1180814
Target Countries:			8	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				
Sub-Sector:				
Language : English				
Appeal				
With 22-year experience, Kitakyushu Fire Department gives participants Japan's top-level fire fighting t system after they return home, participants are able to analyze and make a plan for the problems their he planned to give participants a chance to experience fire drills and real fire scenes with Japanese fire units participants can experience various types of fire.	ome countries a	re facing	.Two-day	OJT is
Objective / Output	Target	Organiza	ation / Gro	up
Course Objective>	Target Organ			-
1) To be able to practice fire and rescues technique by utilizing the equipment appropriately and using various fire extinguishing methods. 2) To be able to command a unit by using the above-mentioned techniques and knowledge. 3) To be able to plan dissemination activities after returning home. (Objective for each unit) To acquire the knowledge and the techniques on fire fighting, rescue work, and safe control for various fire sites in Japan such as buildings, dangerous substances, forests, vehicles, ships, and aircraft. To acquire the knowledge and the techniques on operation of various fire fighting equipment in Japan. To understand and practice the knowledge and techniques of emergency rescue. to be able to plan activities of disseminating knowledge, techniques, and systems regarding fire fighting techniques after they return to their respective countries	Organization (Government or Expected Job commander of fire education i Expected Job service and has experience. Other Qualific or have the equexperiences. By principle. Be principle. Be principle, to compare the command of the comm	nization (Central Government comment or Private Sector) ected Job Title>be or will be a ander of fire fighting or an institutions. Sected Job Experience>be engage and has more than 5 years dience. For Qualifications>be university to the equivalent occupational iences. Be under 40 years of a ple. Be proficient in spoken a ch. Be in good health, both meally, to complete the course. ant. not be serving in the mile		
Contents	Program Period	2011 / 6	2/2- 1	2011 /10 /20
Preliminary Phase>Formulation of report to present current situation in the participant's country	i regrami enea			2011 / 10 / 20 ,Kita-Kyushu
Core Phase in Japan> •Fire suppression drills •Fire investigation(lecture and practice) •Safety control (lecture and practice)	Implementing Partner	City	-	, rica Try abita
·Command theory (lecture)	JICA Center	JICA K	yushu	
Handling fire trucks and fire fighting equipment (lecture and practice) Rescue and emergency measures in various fire sites (lecture and practice) Work-shop for the effective implementation of the action plan including invitation of outside lecturers.(lecture and practice)	Cooperation Period	2011~	2013	
	1 Chou			
<finalization phase=""> Implementation of the formulated plan, and report progress in the form of final report</finalization>	Remarks and Website			

Fire Prevention Techniques 火災予防技術(休止)	ſ	PITD Trainers	1180933		
Target Countries:		5	participants		
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management					
Sub-Sector:					
Language: English					
Appeal					
To help developing countries prevent and reduce the outbreak of fire related disasters by training and tra	nsferring the fi	re previention ted	chniques.		
Objective / Output	Target	Organization / Gr	OUD		
Objectives he knowledge and the techniques of fire prevention will be shared within participant's organization and ther relevant institutions. Outputs . To identify the problems and challenges on the fire prevention activities and policies in the espective sections or organizations belong to, based on the newly acquired knowledge and experiences brough training. To make an Action Plan that suggests the formation of more practical fire prevention system, and approvement of the fire prevention measures, duties and services in the participants' organizations. To implement the Action Plan in their home countries after they return to the respective countries.		disaster management sector. [Target Group] (1) Be an administrative officer or a candid of a fire service implementation agency, wor will be engaged in planning/drafting Fi Prevention System and Fire Service System (2) Be proficient in spoken and written			
Contents	Program Period				
[Core Phase in Japan] (1) Lectures and practical trainings about the outline of fire service system (central/local), legislation and practical measures (2) Visits/study tours to the relevant facilities, local fire stations (3) Practical trainings/ presentations and discussion about fire prevention tehniques (4) Formulating and presenting Action Plan which features feasible plan to their organizations and their countries.	Implementing Partner	Fire and Disaste Agency of Japan			
	JICA Center	JICA Tokyo(Pub	olic Policy)		
	Cooperation Period	2010~2012			
	Remarks and Website	【URL】 •Fire and Disaste Management Age http://www.fdma •Tokyo Fire Dep http://www.tfd.n eng/index.html	ency of Japan a.go.jp/en/ partment		

Comprehensive Disaster Risk Management 総合防災行政	I	PITD S	Solution	1180999	
Towart Countries			17	participants	
Target Countries:			17	participants	
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management Sub-Sector:					
Language: English					
Languago : Eng 1811 Appeal					
Officers of central or local Government will obtain the knowledge and experience on disaster reduction in management	Japan, and dev	velop thei	ir capacity	on disaeter	
Objective / Output	Target	Organiza	ation / Grou	nb	
Participants are requested to contribute to the institutional capacity development on disaster management throuth elaborating and implementing action plan in terms of disaster preventnion and mitigation [Outputs]	Ministry in cha and local gover 【Target Group <position> Officers in char <experience></experience></position>	Position > fficers in charge of disaster risk m Experience >			
Contents	Program Period	2012 / 1		2010 / 0 /05	
Contents [Preliminary Phase]	i iogiaiii Felioo		$1/9\sim 20$ isaster Re	2012 / 2 / 25	
Preparation of Job Report Core Phase	Implementing Partner	Center	usaster Ke	eduction	
 Disaster prevention education Activities for raising awareness of disaster prevention Community based disaster risk management 	JICA Center	JICA Hy	yogo		
-Collaboration between disaster and development/tourism in recovery pase -Role of mass media in disasters	Cooperation Period	2010~2	2012		
-Funciton of community radio -Preparation of Action Plan [Finalization Phase] -Implementation of Action Plan					

Sector 全经市场产产统业八两行为从了开放统治中的工作	ŀ	עואי	Int.Dialogue	1184022
気候変動適応策水分野における政策策定能力向上			6	participants
Target Countries: Indonesia, Philippines, VietNam, Myanmar, Kazakhstan			0	participants
Sector : Water Resources/Disaster Management/Comprehensive Disaster Management Sub-Sector :				
Language: English, Vietnamese				
Appeal				
Policy makers at secretary and director general levels of disaster management and water management w. CCA	ill strenghen the	irpolic	y making ca	pacity of
Objective / Output	Targe	t Orga	nization / Gro	pup
[Objectives] Policy makers at secretary and director general levels of disaster management and water management will strenghen theirpolicy making capacity of CCA [Output] (1) To share most advanced knowledge in climate change among oveaseas participating countries and Japan (2) To have new idea through exchange of opinion about climate change among overseas participants and Japanese central governmental officers	Target Organ water resourse Target Group High rank offic ministry (unde	e or dis older of t	saster risk m the above-m	anagement entioned
Contents - Concept of policy making - Current situation on the CCA - Colaboration with local government and its example - Raising citizen's awareness on CCA	Program Period Implementing Partner	_	/11/27 ~ er Planning	2011 / 12 / 3
Coopera	JICA Center	JICA	A Hyogo	
	Cooperation Period	2010	~2012	
	Remarks and Website			

Comprehensive Disaster Management for Central Asia and Caucasus	P	PRTD L	eaders.	1184047
Comprehensive Disaster Management for Central Asia and Caucasus 中央アジア・コーカサス地域総合防災行政				
Target Countries: Kazakhstan, Uzbekistan, Armenia, Tajikistan			9	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				
Sub-Sector:				
Language: Russian				
Appeal				
This program is designed for governmental officials to develop the DRM capacity as well as to deepen the	Network DRM	l organiza	tion in th	e Region
Objective / Output	Tarnet	Organiza	ation / Gro	NUD.
<u> </u>				ир
the 5 priority actions in Hyogo Framework of Action 2005–2015 (HFA) is prepared by the participant. [Output] (1) To understand the Priority Action 1 of HFA, and are able to arrange to "Make Disaster Risk Reduction a Priority" (2) To understand the Priority Action 2 of HFA, and are able to propose a concrete plan for "Know the Risks and Take Action" (3) To understand the Priority Action 3 of HFA, and are able to propose a concrete plan for "Build Understanding and Awareness" (4) To understand the Priority Action 4 and 5 of HFA, and are able to propose a concrete plan for "Reduce Risks" and "Be Prepared and Ready to Act" (5) Participants plan Action Plan in accordance with the HFA for improving DRM capacity in their organization. At the same time, regional Network of DRM organization is deepened.	tt. Ministry in charge of disaster risk mana or local government [Target Group]			
Contents	Program Period	2011 / 6	$\frac{1}{26} \sim $	2011 / 8/6
[Preliminary Phase] Preparation of Job Report [Core Phase] Creating effective, multi-sectoral national platforms for DRM Integrating DRM into development policies and planning	Implementing Partner		isaster Re	
Ensuring community participation Evolution of risks in DRM in National and Regional level	JICA Center	JICA Hy	/ogo	
Early Warning system Institution for observation and forecasting of Disaster Risk Re-strengthening of DRM capacity in Region, Nation and communities	Cooperation Period	2010~2	2012	
Promotion of DRM Education DRM program in Communities [Finalization Phase] Implementation of Action Plan				

Volunteer Management for Disaster Resilient Communities in Asian Countries 災害に強いコミュニティ作りに向けたボランティア・マネージメント	Р	PRTD	Trainers	1184097
Target Countries: Philippines, Thailand, VietNam, Myanmar			6	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				
Sub-Sector:				
Language: English				
Appeal				
This couese is designed to develop Human Capital in Volunteer management for Disaster Resilient Comn	nunities (DRCs)	in Asi	ian Countri	es.
Objective / Output	Torget	Organ	ization / Gro	NUD.
, · · · ·				,up
This course aims to build/strengthen the capability for organizing and managing volunteers in community level towards "Disaster Resilient Communities". [Output] (1)Participants share approaches to establish the "Disaster Resilient Communities" in Japan, as well as in the participants' countries.(2) Participants understand the role of Government and NGO/NPO in DRM in disaster management at community level in Japan. (3) Participants understand and practice the skills and methods for organizing and managing volunteers at community level. (4) Participants prepare Action Plans to fulfill "Disaster Resilient Communities" in their involved communities. (5) Action Plans prepared by the participants are reviewed and approved in their respective	Target Organi NGO/NPO, loc which organizes based disaster: Target Group <position>St Local/Central; promoting commanagement. <experience> field, should ha experience. (You</experience></position>	ommunity O, or rs who are ster risk e relievant ear's		
Contents	Program Period	0010 /	0/10	0010 / 4 /00
Preliminary Phase Preparation of Job Report Core Phase (1) (1) (1) (1) (2) (1) (2) (3) (4) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Implementing Partner	Kobe Institu		2012 / 4/28 ent Center, cipatory
(2) Government support for community level disaster management in Kobe city, Hyogo prefecture/Group Exercises in DRM-Welfare Communities in Kobe (3) "Participatory Group Dynamism" Training by Participatory Development Institute/Establishment	JICA Center	JICA	Hyogo	
(5) Sharing the prepared "Action Plan" with concerned organization(s)/communities/Reporting the progress on revision and realization of Action Plan to JICA Hyogo	Cooperation 2010~2012 Period		~2012	
[Finalization Phase] •Reporting the progress on revision and realization of Action Plan to JICA Hyogo	Remarks and Website			

Target Countries: 6 Countries in Central America Sector: Water Recuross/Dissette Varagement Comprehensive Dissette Varagement Sub-Sector: Language: Spanish Appeal This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from natural disasters, Especially, the participatus are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the cast disaster, focusing on the transmission of the information on disasters Objective / Output Objective / Output Objective / Output Objective or certal governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation or mitigation or mitigation or mitigation or mitigation and the methodology of the collaboration of administrative bodies, disaster prevention or mitigation in a certain municipality. [Outputs] To be able to explain the function and the methodology of the collaboration or natural disaster or languagement or collad covernment or through understanding the history of natural disasters and their damage in Japan Counters the contents of the collaboration among administrative bodies, citizen, community, mass media and research institutes about the information management on natural disaster Counterist of understand the conferte methodology for the disaster risk reduction in communities To understand the contents methodology for the disaster risk reduction in communities To understand the methodology for project management in each country To make action plan Contents Contents Programation of Country Report Exchange of opinion with ex-participants (Core Pfase) Overview of Great Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Wethodology about raising awareness of disaster prevention for residents, Preparation of Action Plan [Frieditation		-	DTD	0.1	1101100	
Sector: Nater Resources/Disaster Maragement/Corportersive Disaster Maragement Sub-Sector: Language: Spanish Appeal This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from natural disasters. Especially, the participatns are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the cast disaster, focusing on the transmission of the information on disasters Objective / Output [Objectives] Objective / Output [Objectives] Objective / Output [Objectives] Objective / Output [Objectives] Objective / Output [Target Organization / Group [Target Organization / Group [Target Organization / Group [Target Organization / Group [Corputs] To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan To understand the collaboration among administrative bodies through understanding the history of natural disasters and their damage in Japan For understand the collaboration among administrative bodies through understanding the history of natural disasters on their damage in Japan For understand the contents methodology for the dissemination on raising awareness of disaster research institutes about the information management on natural disasters on the disaster of the dissemination on raising awareness of disaster prevention of mitigation in the relevant field: have experiences for more than 2 years (3) Others: The person who will be in tour with JICA BOSAI project in the future is preferable. Program Period Overview of Groat Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Function of mass media in disasters in Japan Function of Action Plan Fireparation of Action Plan Fireparati	Control de Desastres 中米防災対策	۲	עואי	Solution	1184133	
Sector: Nater Resources/Disaster Maragement/Corportersive Disaster Maragement Sub-Sector: Language: Spanish Appeal This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from natural disasters. Especially, the participatns are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the cast disaster, focusing on the transmission of the information on disasters Objective / Output [Objectives] Objective / Output [Objectives] Objective / Output [Objectives] Objective / Output [Objectives] Objective / Output [Target Organization / Group [Target Organization / Group [Target Organization / Group [Target Organization / Group [Corputs] To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan To understand the collaboration among administrative bodies through understanding the history of natural disasters and their damage in Japan For understand the collaboration among administrative bodies through understanding the history of natural disasters on their damage in Japan For understand the contents methodology for the dissemination on raising awareness of disaster research institutes about the information management on natural disasters on the disaster of the dissemination on raising awareness of disaster prevention of mitigation in the relevant field: have experiences for more than 2 years (3) Others: The person who will be in tour with JICA BOSAI project in the future is preferable. Program Period Overview of Groat Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Function of mass media in disasters in Japan Function of Action Plan Fireparation of Action Plan Fireparati						
Sub-Sector: Language: Spanish Appeal This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from nature disasters. Especially, the participatus are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the case disaster, focusing on the transmission of the information on disasters Objective / Output [Objectives] Objectives] Ministry or cetral governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation in a certain municipality. Outputs on disaster prevention or mitigation in a certain municipality. Outputs on disaster prevention or mitigation in a certain municipality. Outputs on disaster prevention or mitigation in a certain municipality. Outputs on disaster prevention or mitigation in a certain municipality. Current Duties: Officials in charge of Disaster Management on comparing the history of natural disasters and their dunage in Japan. To understand the conference methodology of the dissemination on raising awareness of disaster prevention and information management on natural disaster. To understand the contente methodology for the dissemination on raising awareness of disaster prevention and information management, considering disaster risk reduction in communities. To understand the methodology for project management in each country Condents Contents Program Period Ditact Planning Implementing Partner Under Planning Partner JICA Hyogo Target Organization / Group Certain government in charge of Disaster or management in Certain municipality. Contents the capacity of the collaboration of administrative bodies of the collaboration of administrative bodies of	Target Countries: 6 Countries in Central America			13	participants	
Language: Spanish Appeal This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from nature disasters. Especially, the participatns are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the cast disaster, focusing on the transmission of the information on disasters Objective / Output [Objectives] Ministry or cetral governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation in a certain municipality. Target Organization / Group [Couptust] To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan To understand the contente methodology for the dissemination on raising awareness of disaster research institutes about the information management on natural disaster To understand the contente methodology for the dissemination or arising awareness of disaster prevention and information management, considering disaster risk reduction in communities To understand the methodology for project management in each country Condents Contents ProgramPeriod ProgramPeriod ProgramPeriod Implementing Partner JICA Center JICA Hyogo Core Phase JICA Center JICA Hyogo Cooperation Period Prefind Partner Cooperation of Action Plan [Finalization Phase]						
Appeal This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from natural disasters. Especially, the participatns are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the cast disaster, focusing on the transmission of the information on disasters Objectives						
This program is designed for governmental organization to develop the capacity of disaster risk management for the reduction of damage from natural disasters. Especially, the participaths are requested to acquire the knowledge on the concrete countermeasure of evacuation of residents in the case disaster, focusing on the transmission of the information on disasters. Objective Output Target Organization Group						
[Objectives] Ministry or cetral governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation in a certain municipality. [Outputs] To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan activates about the information management on natural disaster on understand the collaboration among administrative bodies, citizen, community, mass media and research institutes about the information management on natural disaster rounderstand the concrete methodology for the dissemination on raising awareness of disaster prevention and information management, considering disaster risk reduction in communities To understand the methodology for project management in each country To make action plan Contents Contents ProgramPeriod 2011/11/5 ~ 2011/12 Under Planning Preparation of Country Report Exchange of opinion with ex-participants [Core Phase] Overview of Great Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters Risk communication Examples of community-based disaster management in Japan Methodology about raising awareness of disaster prevention for residents, Preparation of Action Plan [Finalization] Target Organization (Target Organization Anagement or Local Government (Target Organization Anagement or Local Government (Target Organization Anagement or Local Government (Target Organization (Target Organization (Target Organization Anagement or Local Government (Target Organization (Target Organizatio	This program is designed for governmental organization to develop the capacity of disaster risk managem disasters. Especially, the participatns are requested to acquire the knowledge on the concrete counterme	ent for the redu easure of evacua	uction of	of damage fi f residents i	rom natural in the case of	
Ministry or cetral governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation in a certain municipality. [Outputs] To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan To understand the collaboration among administrative bodies, citizen, community, mass media and research institutes about the information management on natural disaster To understand the concrete methodology for the dissemination on raising awareness of disaster prevention and information management, considering disaster risk reduction in communities To understand the methodology for project management in each country Contents Contents Contents Preparation of Country Report Exchange of Disaster Management in Central or L Government (2) Experience in the relevant field: have experiences for more than 2 years (3) Others: The person who will be in tour with JICA BOSAI project in the futre is preferable. Preparation of Country Report Exchange of opinion with ex-participants [Core Phase] Overview of Great Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Function of mass media in disasters Risk communication Examples of community-based disaster management in Japan Methodology about raising awareness of disaster prevention for residents, Preparation of Action Plan [Finalization Phase]	Objective / Output	Target	t Organi	ization / Gro		
[Preliminary Phase] Preparation of Country Report Exchange of opinion with ex-participants [Core Phase] Overview of Great Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Function of mass media in disasters Risk communication Examples of community-based disaster management in Japan Methodology about raising awareness of disaster prevention for residents, Preparation of Action Plan [Finalization Phase] Under Planning Under Planning JICA Hyogo Cooperation Period 2010~2012	Ministry or cetral governmental organization in charge of promoting disaster prevention or mitigation and/or local government enhance the capacity of disaster management through implementing the activities on disaster prevention or mitigation in a certain municipality. [Outputs] To be able to explain the function and the methodology of the collaboration of administrative bodies through understanding the history of natural disasters and their damage in Japan To understand the collaboration among administrative bodies, citizen, community, mass media and research institutes about the information management on natural disaster To understand the concrete methodology for the dissemination on raising awareness of disaster prevention and information management, considering disaster risk reduction in communities To understand the methodology for project management in each country	Central govern Management of [Target Group (1) Current Du Disaster Risk M Government (2) Experience experiences for (3) Others: The with JICA BOS	ntral government in charge of Disa nagement or Local Government arget Group Current Duties: Officials in charge saster Risk Management in Central vernment Experience in the relevant field: hereiences for more than 2 years Others: The person who will be in h JICA BOSAI project in the futre			
[Preliminary Phase] Preparation of Country Report Exchange of opinion with ex−participants [Core Phase] Overview of Great Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Function of mass media in disasters Risk communication Examples of community-based disaster management in Japan Methodology about raising awareness of disaster prevention for residents, Preparation of Action Plan [Finalization Phase] Under Planning Under Planning JICA Center Cooperation Period 2010~2012	Contants	Program Period	0011 /	11 / 5 - 1	0011 /10 /10	
Implementation of Action Plan after discussing the action plan with the relevant persons like JICA officers in overseas offices and BOSAI Project Remarks and Website	[Preliminary Phase] Preparation of Country Report Exchange of opinion with ex-participants [Core Phase] Overview of Great Hanshin-Awaji Earthquake and recovery Early warning system for natural disasters in Japan Function of mass media in disasters Risk communication Examples of community-based disaster management in Japan Methodology about raising awareness of disaster prevention for residents, Preparation of Action Plan [Finalization Phase] Implementation of Action Plan after discussing the action plan with the relevant persons like JICA	Implementing Partner JICA Center Cooperation Period Remarks and	Under Planning enting her JICA Hyogo ation od 2010~2012		2011 / 12 / 10	

Recovery Planning from Natural Disasters 自然災害からの復興計画	Р	RTD Solu	tion	1184219
Target Countries: Disaster-prone countries			15	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				F
Sub-Sector:				
Language: English				
Appeal				
The participants will formulate action plans for recovery from disasters in their countries.				
Objective / Output	Target	Organizatio	n / Gro	up
social capital" are created. After the training, the action plan should be shared in the department targe of disaster recovery. The participants will understand the outline of the Great Hanshin-Awaji Earthquake and emergency onse to it. (2) The participants will understand the PDCA (Plan, Do, Check, and Act for recoverment) Cycle in efforts for recovery. (3) The participants will understand the importance of the sept of "social capital" from the experience of role sharing among residents, business operators, and inistrative bodies in the efforts to solve problems caused by the Great Hanshin-Awaji Earthquake. The participants will understand new viewpoints (efforts of individuals and communities, structure development, and crisis-control structure) to develop safe towns based on the lessons the Great Hanshin-Awaji Earthquake. Action plans for the respective countries will be created.		ies: be or wivated and ir o become in recovery plaining, housing, disaste to promote to be officials of from disaste es after the m.	ll be of a positivolved in a positivolved in servicting recoper victing them in who will cormulaters and complete field m	fficials who ition that with the n disasters enstruction, ms livelihood n their l continue to tion of to promote etion of this ence of more tentioned
Contents	Program Period	2012 / 1 /	0 ~ 9	2012 / 2 / 25
[Preliminary Phase] Preparation of Job Report [Core Phase in Japan] (1)Outline of the Great Hanshin-Awaji Earthquake/ Damages and emergency response in each field/ Visit on monument to the Great-Hanshin Awaji Earthquake/Study on other disaster damage cases	Implementing Partner		nationa on and	al Center for
(2) Recovery plan/ Promotion of recovery plan/ Actions taken to the issues at each period from the time of disaster emergency response to that of recovery or reconstruction and evaluations	JICA Center	JICA Hyog	ÇO	
(3) Significance of social capital/ Case examples of "mutual help" by enterprises, NGOs, volunteers, and local communities/ Redevelopment projects (readjustment of town lots) and residents/ Mutual help in the participants' countries (4) Development of safe towns/ Creation of safe cities in the participants' countries (5) Session to exchange views between the Kobe City officials and the participants [Finalization Phase] Implementation of Action Plan	Cooperation Period	2010~201	2	
	Remarks and Website		ow webs .city.ko waji/re	

Community-based Disaster Risk Management コミュニティ防災	P	PRTD	Leaders	1184220	
Toward Countries Discotor prope countries			15	participants	
Target Countries: Disaster-prone countries			13	participants	
Sector : Water Resources/Disaster Management/Comprehensive Disaster Management Sub-Sector :					
Language : English					
Appeal					
The participants will understand the significance of disaster risk management for natural disasters and not the concrete method for promotion of community based disaster risk management in each country through residents for disaster risk management in Japan.					
Objective / Output	Target	Organ	ization / Gro	up	
[Objectives] The concept and method of promotion of community based disaster prevention are acquired, through understanding the importance of comprehensive management for natural disaster [Outputs] (1) Significance of disaster prevention (2) Needs and mechanism of community based disaster prevention and how to take community into it (3) How to operate and conduct drills in community based disaster prevention (4) How to foster leaders for disaster prevention in community (5) Establishment of a simulated organization for community based disaster prevention and formulation of an action plan	Target organi organizations we promotion of comprehension and organization of prevention. (e. planning organization of government) Target Group Positon: Official in promotion of prevention	ons which can play a leading rate of community based disaster and dissemination of self-hele on of residents for disaster management organization/division, communent organization in central/locate) Froup Difficults who can play a leading ion of community based disast a e in the relevant field: more the			
Contents	Program Period	2011 /	10/17 ~	2011 / 11 / 26	
Preparation of Job Report [Core Phese] Overview of Disaster Risk Management in the world Disaster Risk Management in Japan Great Hanshin Awaji Earthquake "Disaster-Safe Welfare Community", promoted by Kobe city	Implementing Partner JICA Center Cooperation Period	Under JICA	r Planning Hyogo ~2012		
	Remarks and Website				

Training on Firefighting Command Techniques 消防活動指揮技術研修	Р	PRTD Tr	rainers	1184309
Target Countries: Vietnam Only			6	participants
Sector: Water Resources/Disaster Management/Comprehensive Disaster Management				
Sub-Sector:				
Language: Vietnamese				
Appeal				
This training is aims to quire higher level techniques on firefighting and rescue activities which correspon University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam, who are in charge of epersonnel in Vietnam, or preferably be commanders of fire vehicles and/or have ever experienced as train	education and tr	rainings fo	or the fire	
Objective / Output	Target	: Organizat	tion / Gro	LID
· · · ·			.1011 / G10	ир
[Outputs]	Target Organi The University Prevention, Ministry of Pub Target Group Instructors of t and Prevention of education an prevention pers be commanders ever experience fighting. Partici year-program (of Fire Fire Fire Fire Securial the University of Vietna of Vietna sonnel in Vietna sonnel in Vietna son fire veed as trair ipate in the	ty of Viersity of Fram, who ags for the Vietnam, whicles an are in the proughout	tnam ire Fighting are in charge fire or preferably nd/or have he field of fire t 3
Contents	Program Period	2011 / 8	/21 ∼ :	2011 / 9 / 8
To Aquire higher level techniques on firefighting and rescue activities which correspond urbamization. 1. Participants learn how to command and control a fire scene through a map training. 2. Participants learn how to design a practical firefighting, rescue and HAZMAT operation training (Lectures and Drills at Fukuoka, Yokohama, Kawasaki and Tokyo Fire Department). 3. Formulating a training plan based on the knowledge and techniques acquired during the training in Japan, and implementing the training plan in the curriculum of the University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam.	Implementing Partner			Management
	JICA Center	JICA Tol	kyo(Publi	ic Policy)
	Cooperation Period	2009~2		
		JICA will cooperation team) with	on (dispa	tch of study

Volcanic Disaster Prevention and Management for Central and South American **PRTD** Solution 1184264 Countries 中南米地域 火山防災能力強化 participants Target Countries: Central and South American Countries 10 Sector: Water Resources/Disaster Management/Other Water Resources/Disaster Management Issues Sub-Sector : Language : Spanish Appeal Improve the contermeasure against volcanic disaster by creating good coodination between government and community, referring to Hokkaido's experiences. Objective / Output Target Organization / Group [Objective] [Organization] Respective community or society's capacity against volcanic disaster prevention / management shall be Central / Local government, University, improved, though the implementation of the formulated plan Research Institutes and NGOs, in charge of on [Expected Outputs] the ground work for volcanic disaster management (1) To identify the issues of the volcanic disaster management in participants' country / area through understanding how to grasp volcanic disaster risk in Japan [Personal Qualification] (2) To identify the issues of the volcanic disaster management in participants' country / area by Cuurent Duties>Senior staff in charge of understanding the disaster prevention plans and schemes in volcanic disaster vulnerable area in Japan. volcanic disaster prevention & management on (3) To propose ideas for productive usage of volcanoes as resources for regional promotion by learning the ground. <Experience> More than five (5) years in the field of volcanic (4) To propose appropriate and feasible "Action Plan" for volcanic disaster management in participants disaster prevention and management. country/regions <Educational Background> Volcanology, Natural disaster management Age>Be between 25 to 45 Program Period Contents $2011 / 6 / 6 \sim 2011 /$ Preparatory Phase Each participant prepares country report to identify its issues Crisis & Environment Core Phase Management Policy Institute Implementing 1) Volcanology, Eruption mechanism, Volcanic disaster(general remarks), Volcanic disaster(pyroclastic Partner flow, pyroclastic surge, lahar, hazard map), Eruption forecast, Risk management (2) Countermeasure against volcanic disaster(through the cases of Usu, Tokachi, Unzen, and Miyakejima volcanoes), Scheme of volcanic disaster organization (disaster management office etc), JICA Sapporo JICA Center Eruption and mass media, Disaster psychology, educational activities around volcanic disaster vulnerable area, Volcanic information device Cooperation 2009~2011 (3) National park and museum around volcanic area, UNESCO Geopark Period 4) Inception Report Presentation, Group discussion, Proposing Action Plan Finalization Phase (1) Within 3 months after completion of the course, every participant is requested In the selection committee, special attention will be paid to to share its knowledge and experience in Japan at respective organization, then reports Action Plan secure diversity of home progress to JICA Remarks organizations in order to and deepen the understanding for

Website

the importance of

prevention

multi-stakeholders in disaster