



GROUP AND REGION-FOCUSED TRAINING

GENERAL INFORMATION ON

ENVIRONMENTALLY SUSTAINABLE
URBAN TRANSPORT PLANNING

課題別研修「環境的に持続可能な都市交通計画」

JFY 2015

NO. J1504168 / ID. 1584560

Course Period in Japan: From September 23, 2015 to November 07, 2015

This information pertains to one of the Group and Region-Focused Training of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

I. Concept

Background

In many cities in the world, we have seen drastic population growth and economic expansion induced by industrialization and urbanization for the past several decades. The rapid growth has also brought about an expansion of demands in the transport sector, but many of the cities have been developed without well-designed appropriate plans, resulting in serious delays in the development of the required infrastructure and the provision of public services. As a result, many cities have been seriously affected by various socio-economic and environmental problems relating to transport. These range from air pollution, public health, noise pollution and traffic congestion caused by automobiles to the subsequent economic losses such as inefficient use of energy and loss of potential natural habitats and land resources.

While a growth in transport demands is essential socio-economically, the development of environment-conscious transport systems which promote further use of public transport means instead of private automobiles is considered to be increasingly important in association with prevention of global warming. Environmentally Sustainable Transport (EST) based on the concept of satisfying the transport demands in harmony with environmental conservation is one of wholly innovative transport systems capable of meeting fully the needs of the present without spoiling those of the next generation, and is also an important component of sustainable urban planning.

For what?

Environment-friendly transportation system and city planning are becoming increasingly important and considered as the future system in many countries. The program aims to raise awareness for its importance and to call for action to promote environmentally sustainable urban transportation system and city planning based on the concept of "green economy" with the initiatives of the central/local governmental organizations related to urban transport, environment and city planning in the participating countries.

For whom?

This program is offered to mid-level administrative officials who belong to one of the following organizations; the Department of Public Transportation, the Department of Environment, and the Department of City Planning or other related agencies.

How?

Participants will have opportunities to learn about various approaches and strategies to implement EST promotion in Japan. The participants will formulate an Action Plan describing what the participants will be doing after they return to home country.

II. Description

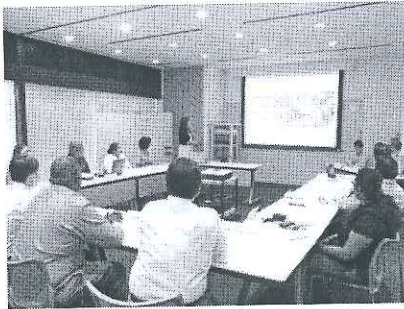
- 1. Title:** Environmentally Sustainable Urban Transport Planning (J1504168)
- 2. Course Period in JAPAN**
September 23 to November 07, 2015
- 3. Target Regions or Countries**
Bolivia, Cuba, India, Laos, Malaysia, Myanmar, Nigeria, Peru, Solomon, South Africa, Sri Lanka, Thailand, Tanzania, Vietnam
- 4. Eligible / Target Organization**
This program is designed for mid-level officer in the central or local government (Priority organizations: Department of Public Transport, Department of City Planning, Department of Environment) in charge of urban transport or city planning to bring awareness and encourage introducing EST system and city planning based on the concept of "Green Economy".
- 5. Course Capacity (Upper limit of Participants)**
14 participants
- 6. Language to be used in this program**
English
- 7. Course Objective**
The Action plan on EST system and city planning promotion will be formulated and shared among the related organizations.
- 8. Overall Goal:**
The policies, programs and projects to be formulated shall be implemented to develop EST system and city planning effectively, leading to the capacity building and performance upgrading of those officials engaged in administration of transport system management and urban environment management.

9. Expected Module Output and Contents :

This program consists of the following components. Details on each component are given below:

Preliminary Phase in a participant's home country		
Participating organizations make required preparation for the Program in the respective country.		
Expected Module Output	Activities	
【Module1】 Current situation and issues of EST system and city planning can be understood and analyzed.	Preparation of Inception Report.	
Core Phase in Japan		
Participants dispatched by the organizations attend the Program implemented in Japan.		
Expected Module Output	Subjects/Agendas	Methodology
【Module2】 Understanding the actual approaches for EST system and city planning by central/local government in Japan	Understanding the Japan's cases /experiences.	Lecture Field visit Discussion
【Module3】 Setting the direction of policies, programs and projects for promotion of EST system and city planning	Considering and analyzing of the issues, and identifying the prioritized activities through exercises and discussions.	Exercise Discussion
【Module4】 Formulating the Action Plan	Formulating the Action Plan on the priority issues.	Exercise Discussion
Finalization Phase in a participant's home country		
Participating organizations produce final outputs by making use of results brought back by participants.		
Expected Module Output	Activities	
【Module5】 Sharing the Action Plan among the related organizations.	Implementing the Action plan, and submitting the Progress Report to JICA Chubu by <u>May 06, 2016.</u>	

Structure of Modules



Module1: Review and analysis of the current situation and issues of EST system and city planning.

Module2: Understanding the actual approaches in Japan

Lectures (example)

- Urban environment and transport, and introduction of EST concept
- International Initiatives and programs
- Urban planning, Land use and Transport planning
- Building resilient Community through EST measures
- Railway Development
- TDM, NMT, LRT
- Green Technology contributing to "Green Economy"
- Sustainable Urban Development
- Intelligent Transport System (ITS)
- Urban environment and transport policies in Japan
- Multi-Modal Integration in Japan
- Clean fuels suitable to automobiles
- Financial measures to promote EST
- Environment assessment

Field Visits (example)

- Transit Oriented Development and Land Use
- Fuel conversion from waste edible oil
- Toyota Ecoful Town
- Toyota Motor Corporation plant
- Air quality monitoring system
- Traffic monitoring system in Aichi
- Vehicle Emission Standards
- Road Traffic Safety Measures
- Nagoya Municipal Transport (City bus and Subway)
- Guide-way Bus System
- Toyama Compact City with LRT, and Share Bike

Module3: Setting the direction for EST promotion

Module4: Formulating the Action Plan

Module5: Sharing and implementing the Action Plan



Reference: Program Schedule in previous year (2014)

Date	Time	Lecture Title
Aug.27		Arrival in Japan
Aug.28		Briefing / Program Orientation
Aug.29		Briefing / Program Orientation
Aug.30		
Aug.31		
Sep. 1	AM	[Presentation] Inception Report Presentation 1
	PM	[Lecture] Urban Traffic and Environmental Issues
Sep. 2	AM	[Presentation] Inception Report Presentation 2
	PM	[Lecture] Aichi New Century Automobile Environment Strategy [Aichi Prefectural Government]
Sep. 3	AM	[Presentation] Inception Report Presentation 3
	PM	[Exercises] Strategy/Approach Matrix
Sep. 4	AM	[Lecture and exercises] Planning techniques from consultants
	PM	[Lecture and exercises] Planning techniques from consultants
Sep. 5	AM	[Lecture and exercises] Planning techniques from consultants
	PM	[Lecture and exercises] Planning techniques from consultants
Sep. 6		
Sep. 7		
Sep. 8	AM	[Lecture] Urban Planning and Transportation
	PM	[Visit] Area Around Nagoya Station
Sep. 9	AM	[Lecture] Green Economy [Toyota Motor Corporation (TMC)]
	PM	[Visit] TMC plant
Sep. 10	AM	[Lecture] Smart City Utilizing ITS [Toyota Municipal Government (TMG)], [Visit] Toyota Ecoful Town [TMG]
	PM	[Visit] Toyota Museum, [Visit] Demonstration ride on the Linimo (magnetic levitation train line)
Sep. 11	AM	[Exercises] Strategy/Approach Matrix
	PM	[Exercises] Presentation on Strategy/Approach Matrix
Sep. 12	AM	[Lecture] Nagoya Municipal Transportation [Nagoya Municipal Government]
	PM	[Visit] Nagoya Municipal Transportation (Subway, main bus service, P & R, Guideway bus service)
Sep. 13		
Sep. 14		
Sep. 15	AM	[Exercises] Creation and Presentation of Strategy/Approach Matrix
Sep. 16	AM	[Lecture] Japan's Urban Environment and Traffic [Ministry of the Environment (MOE)]
	PM	[Lecture] Japan's Transportation Policies and Comprehensive Use of Modes of Transport [Ministry of Land, Infrastructure, Transport, and Tourism (MLIT)]
Sep. 17	AM	[Lecture] Aiming at an Earth-Friendly Railroad [Tokyo Metro]
	PM	[Visit] Tokyo Waterfront Subcenter and Yurikamome (Tokyo Waterfront New Transit Waterfront Line)

Sep. 18	AM	[Lecture] Road Traffic Safety Measures [National Institute for Land and Infrastructure Management]
	PM	[Lecture] Clean Fuels Suitable for Automobiles [Japan Automobile Research Institute]
Sep. 19	AM	[Lecture] Fiscal Policies for Promoting EST [ITPS]
	PM	[Lecture] Case Study
Sep. 20		
Sep. 21		
Sep. 22	AM	[Lecture and Visit] Traffic Control Systems [Aichi Prefectural Government]
	PM	[Lecture] Bicycle Sharing in Nagoya City (Pilot program)
Sep. 23	AM	[Lecture and discussions] Cost-Benefit Analysis
	PM	[Exercises] Strategy/Approach Matrix
Sep. 24	PM	[Visit] Bicycle Sharing [Toyama City]
Sep. 25	AM	[Lecture] Compact City Planning in Toyama City Centering on Public Transportation [Toyama Municipal Government]
	PM	[Visit] Compact City Planning in Toyama City Centering on Public Transportation [Toyama Municipal Government]
Sep. 26	PM	[Visit] Urban planning and transportation in Kyoto City
Sep. 27	AM/PM	Visit: Public transportation in Kyoto City
Sep. 28		
Sep. 29	AM	[Lecture] Measures for Traffic Demand Management (TMD) in Kyoto City
	PM	[Lecture and visit] Turning Waste Cooking Oil into Biofuel [Kyoto City Nanbu Clean Center]
Sep. 30	AM	[Exercises] Strategy/Approach Matrix
	PM	[Lecture] Air Pollution Monitoring Systems [Aichi Prefectural Government]
		[Visit] Nearby automobile exhaust monitoring station [Aichi Prefecture]
Oct 1	AM	[Lecture] Management Strategy of Private Railroad Companies
	PM	[Lecture] Statutory Vehicle Inspection System [Aichi Transport Branch Office, Chubu District Transport Bureau]
Oct 2	AM	[Lecture] Urban Planning and Land Utilization (Centering on Land Readjustment Projects)
	PM	[Visit] Observation of facilities in front of Katsukawa Station
Oct 3	AM	[Lecture] Transportation Demand Management (TDM) and Non-Motorized Transportation (NMT) [Toyota Transportation Research Institute]
	PM	[Discussion] Transportation Demand Management (TDM) and Non-Motorized Transportation (NMT) [Toyota Transportation Research Institute]
Oct 4		
Oct 5		
Oct 6	AM	[Lecture] Environmental Assessment [Aichi Prefectural Government]
	PM	Action Plan (Guidance)
Oct 7	AM/PM	Case Study
Oct 8	AM	Case Study
	PM	Action Plan Presentation
Oct 9	AM/PM	Action Plan Presentation
Oct 10	AM	Evaluation meeting and closing ceremony
Oct 11		Departure

III. Conditions and Procedures for Application

1. Expectations from the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to use the project for those specific purposes.
- (2) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the project to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.

2. Nominee Qualifications:

Applying organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) **Current Duties:** be a mid-level officer in the central or local government (Priority organizations: Department of Public Transport, Department of City Planning, Department of Environment) in charge of urban transport or city planning to bring awareness and encourage introducing environmentally sustainable urban transportation system and city planning.
- 2) **Experience in the relevant field:** have more than 3 years working experience in this field
- 3) **Educational Background:** be a graduate of university
- 4) **Language:** have a competent command of spoken and written English which is equal to TOEFL iBT 100 or more (This workshop includes active participation in discussions, action plan development, thus requires high competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible.)
- 5) **Health:** must be in good health, both physically and mentally, to participate in the Program in Japan.
- 6) Must not be serving any form of military service.

(2) Recommendable Qualifications

Age: be between the ages of thirty (30) and fifty (50) years

3. Required Documents for Application

- (1) **Application Form:** The Application Form is available at the JICA office (or the Embassy of Japan). Please submit a type-written application form.

*Pregnancy

Pregnant participants are strictly requested to attach the following documents in order to minimize the risk for their health.

1. letter of the participant's consent to bear economic and physical risks

2. letter of consent from the participant's supervisor
3. doctor's letter with permission of her training participation.

Please ask JICA Staff for the details.

- (2) **Photocopy of passport:** to be submitted with the application form, if you possess your passport which you will carry when entering Japan for this program. If not, you are requested to submit its photocopy as soon as you obtain it.

*Photocopy should include the followings:

Name, Date of birth, Nationality, Sex, Passport number and Expire date

- (3) **Nominee's English Score Sheet:** to be submitted with the Application Form. If you have any official documentation of English ability (e.g., TOEFL, TOEIC, IELTS)

- (4) **Inception Report:** Each nominee is requested to prepare a report explaining the present situation of her/his own job in her/his home country (organization), as well as to introduce her/his job description and own interest. This report should be typed in the attached form at ANNEX 1 and submitted with the application form. The report will be a reference for selecting training participants.

Note: Accepted participants are required to make presentation material based on the report in order to share it at beginning of training program.

4. Procedure for Application and Selection

(1) Submitting the Application Documents

Closing date for applications: Please inquire to the JICA office (or the Embassy of Japan).

After receiving applications, the JICA office (or the Embassy of Japan) will send them to the JICA Chubu Center in JAPAN by July 31, 2015.

(2) Selection

After receiving the documents through proper channels from your government, the JICA office (or the Embassy of Japan) will conduct screenings, and then forward the documents to the JICA Chubu Center in Japan. Selection will be made by the JICA Chubu Center in consultation with concerned organizations in Japan. The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.

(3) Notice of Acceptance

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than August 21, 2015.**

5. Conditions for Attendance:

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.

- (3) not to extend the period of stay in Japan.
- (4) not to be accompanied by family members during the program.
- (5) to return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) to refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the training expenditure depending on the severity of said violation.
- (8) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

IV. Administrative Arrangements

1. Organizer:

(1) Name: JICA Chubu

(2) Contact: Ms. SAITO Mihoko [cbictp1@jica.go.jp]

※Please insert "training course number & the title" in the subject when emailing.

For instance, "J1504168 & Environmentally Sustainable Urban Transport Planning"

2. Travel to Japan:

(1) Air Ticket: The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) Travel Insurance: Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan will not be covered.

3. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Chubu International Center (JICA Chubu)

Address: 4-60-7 Hiraike-cho, Nakamura-ku, Nagoya 453-0872, Japan

TEL: +81-52-533-0220 FAX: +81-52-564-3751

(where "81" is the country code for Japan, and "52" is the local area code)

If there is no vacancy at JICA Chubu, JICA will arrange alternative accommodations for the participants.

4. Expenses:

The following expenses will be provided for the participants by JICA:

(1) Allowances for accommodation, meals, living expenses, outfit, and shipping

(2) Expenses for study tours (basically in the form of train tickets).

(3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included)

(4) Expenses for program implementation, including materials

For more details, please see "III. ALLOWANCES" of the brochure for participants titled "KENSU-IN GUIDE BOOK," which will be given before departure for Japan.

5. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

V. Other Information

Development Education and Exchange with Local Communities:

For the promotion of mutual friendship, JICA Chubu encourages international exchange between the JICA participants and local communities including students as a part of development education program. You are expected to contribute by attending such activities and will possibly be asked to introduce the society, economy and culture of your home country. The participant's ethnic costume on such exchange programs will be highly welcomed by school children as well as local residents.

VI. ANNEX:

Annex 1

Environmentally Sustainable Urban Transport Planning (J1504168) Inception Report

This report should be typed in English, and be (A4 size) 3 pages or less.

1. Basic Information

Name of Nominee	
Country	
Organization	
Position	
E-mail	

2. Job Description

Your duties	
Activities of urban transport or city planning you have been tasked	
Difficulties in performing your activities	

3. Current Situation

Describe the current situation in your country.	
Transport infrastructure	

Environmental problems in the transport sector	
Strategy of your organization on urban environment and transportation	
Projects in progress (if any)	
Future plans (if any)	

4. Expectation to this training course

--

END

For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

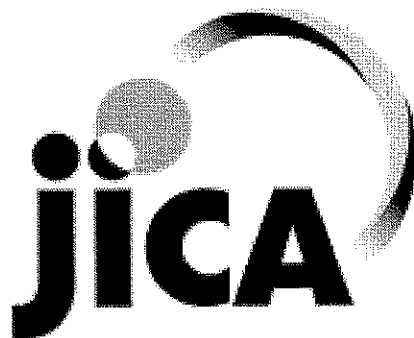
Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



CORRESPONDENCE

For enquiries and further information, please contact the JICA office or the Embassy of Japan. Further, address correspondence to:

JICA Chubu International Center (JICA Chubu)
Address: 4-60-7 Hiraike-cho, Nakamura-ku, Nagoya 453-0872, Japan
TEL: +81-52-533-0220 FAX: +81-52-564-3751