### Sustainable Urban Mobility in Developing Countries

**Deadline:** Closed

**Type:** Course  
**Location:** Web Based  
**Date:** 16 Sep 2013 to 20 Dec 2013  
**Duration of event:** 14 Weeks  
**Programme Area:** Local Development  
**Specific Target Audience:** No  
**Website:** [http://www.unitar.org/ldp](http://www.unitar.org/ldp)  
**Price:** $400.00  
**Event Focal Point Email:** e-ldp@unitar.org

**BACKGROUND**

The rapid and often unplanned and uncoordinated growth of cities has seriously compromised existing transportation systems and significantly increased the challenge of creating future transportation systems especially in developing countries. It is indeed in developing countries that the greatest growth in motor vehicles has been seen in the past few years and is expected in the future, primarily in urban areas. The environmental and social impacts are significant and directly related to quality of life and urban productivity. These impacts include congestion, energy consumption, air pollution, and traffic crashes. Thus, urban transportation issues are of foremost importance to support the mobility requirements in these growing cities and require new approaches.

However, urban transport is a political rather than a technical issue. The technical aspects are relatively simple. The difficult decisions relate to the type of city we want and the way we want to live. Who is going to benefit from the models adopted? Do we dare create a transport model different from that of the so-called advanced world cities? Do we dare create a transport system giving priority to the needs of the poor majority rather than the automobile owning minority? Are we trying to find the most efficient, economical way to move a city’s population, as cleanly and as comfortable as possible? Or are we just trying to minimize the upper class’s traffic jams? These questions are posed by Enrique Peñalosa, the former mayor of Bogotá (Columbia), who introduced a number of sustainable measures in his city.

The online course on Sustainable Urban Mobility in Developing Countries, based on the material jointly developed by GIZ and UNITAR, is designed to provide answers to the abovementioned questions, as well as solutions and alternative approaches in the area of urban transport planning that target a more sustainable transport system in Developing Cities.
EVENT OBJECTIVES

The course aims to enhance the capacity of local decision makers and urban and transportation planners to formulate and implement appropriate policies that contribute to sustainability in urban transport in developing countries. It allows an analysis of the important issues of sustainable transport including transport demand management, improved public and non-motorized transport, environmental protection, road safety, and gender in transport. In order to achieve sustainability, it also provides some means such as economic and financial instruments, institutional improvements, capacity building, regulation of markets and environmental standards.

LEARNING OBJECTIVES

- Analyze the deficit of conventional transport approaches with respect to sustainability and apply alternative and integrated approaches for transport planning
- Design non motorized transport infrastructures that contribute to pro-poor mobility systems
- Recommend appropriate planning and regulation measures to accommodate for sustainable and safe walking and cycling
- Plan and implement Intelligent Transport Systems
- Plan and regulate bus systems in large developing world cities
- Conduct planning process for Bus Rapid Transit Systems
- Recommend institutional frameworks for the development of integrated regional transport and land-use plans
- Recommend measures to organize institutions in the road and Public Transport sector
- Recommend institutional, legal and regulatory framework for PPP transport projects
- Recommend measures to control transport emissions
- Propose abatement measures to reduce transport noise
- Design measures to improve transport safety
- Formulate measures to improve the situation of women in urban transport

CONTENT AND STRUCTURE

The course consists of 6 modules:

Module 1: Urban growth and strategies for sustainable development
- Transport and urban development policy
- Motorization, transport demand and urban development
- Land use planning and urban transport
- Conventional transportation planning process
- Transportation planning and modeling - new directions

Module 2: Municipal mobility management
- Types and features of Transport Demand Management (TDM)
- Improving mobility options
- Restraining car usage
- Mobility management policies
- Benefits of non motorized Transport (NMT)
- Planning of NMT network and facilities
- Safe road design for NMT
- Planning and implementation of ITS

Module 3: Public transport services
- Choosing a Mass Transit System
- Bus policy objectives and implementation strategies
- Bus Rapid Transit Systems planning phases
- Light rail and Metro Systems
- Regulatory framework for public transport services

Module 4: Management, financing and institutions
Basis of urban transport financing
Fuel taxation and urban road financing
Vehicle taxation and parking fees
Public transport pricing and finance
Responsibilities of urban transport institutions
Institutional reform of the road sector
Institutional, legal and regulatory framework of PPP in urban transport

Module 5: Energy and environment

- Techniques for air quality management
- Emissions control in cities from developing countries
- Cleaner fuels and vehicle technologies
- Alternative vehicle technologies
- EcoDriving
- Technical features of noise
- Health effects of transport noise and noise abatement measures
- Transport and climate change

Module 6: Safety and social issues

- Accident control and its effects
- Organization of local road safety
- Vehicle safety
- Driver behavior
- Organization of safety and emergency operations
- Importance of public awareness and proposed actions
- Gender and urban transport planning
- Female transport patterns, public transport and women

METHODOLOGY

Learning activities are based on sound adult learning pedagogical principles. They are distributed in such a way to ensure the achievement of the learning objectives in a flexible manner, where participants can choose the learning pace that is the most adequate to them. Participants are responsible for their own learning throughout the course. Learning activities are moderated by a high level transportation expert.

Learning materials include the following elements:

- Basic reading materials (compulsory) intended to understand the basic concepts and principles of modules’ subject-matter;
- Advanced reading materials (optional) for participants willing to learn more about the topic;
- External links to relevant publications, reports and websites;
- Glossaries of terms and of acronyms as supportive learning tools.
- A community discussion board (forum) where participants discuss topics initiated by the course moderator and post questions, comments or new discussions.

The learning time is estimated to be about 5 hours per week. This includes study time (about 3 hours/week) and participation in collaborative activities (about 2 hours/week). Time dedicated to assessment activities is not taken into account in this estimation.

Assessment activities are organized as follows:

- Self-assessment quizzes were participants test their level of knowledge before and during the course. Self-assessment quizzes are not graded and can be taken as many times as desired.
- 6 mandatory quizzes which aim at evaluating participants’ comprehension of the course content. The 6 tests altogether account for 30% of the final grade.
- A case study where participants can apply their knowledge practically. The case study scenario takes as a basis the concrete situation participants’ city faces with regards to urban mobility. Some participants will have to work on a predefined case study scenario. The case study accounts for 50% of the final grade.
- An innovative peer-to-peer review exercise providing an ideal breeding ground for knowledge and
experience sharing. Participants evaluate and discuss each other’s case study in the framework of specific group forums. Ultimately, the moderator will provide comments and grade to each participant related to his/her review of another participant’s case study and subsequent discussions with fellow-participants. The peer-to-peer review accounts for 20% of the final grade.

Course Completion & Certification

Successful completion of the course requires participants to achieve a total score of at least 70% and entitles to a certificate of completion. A certificate of participation will be issued to participants who took all the exercises but achieved a final score inferior to 70%.

Targeted Audience

The course is open to urban and transportation planners, decision-makers from local governments as well as representatives of service providers (national governments, private sector, NGOs) and international organizations involved in the transport sector worldwide. It is advisable to have prior basic knowledge of urban transport and/or urban planning issues. Participants should also have access to a computer with a reliable Internet connection.

Additional Information

Technical Requirements

- Hardware: 64 MB of RAM, 1 GB of free disk space;
- MODEM: 56 K;
- Platform: Windows 95 or later versions, Mac OS 9 or OSx;
- A good internet connection is necessary;
- Browser: IE, Mozilla Firefox, etc.;

Download the flyer here.