Training Programme on ICT and Smart Mobility

Duration	3 Days
Programme Topics	This course presents an overview of ITS, technology innovation and applications in public transit management and operations with emphasis on three specific areas. The first area focuses on the fundamentals of ITS Applications, the second area focuses on the technologies employed in the public transit operations domain including advanced communications systems, AVL, automated passenger counter systems, electronic payment systems, etc. Furthermore, the second area will explore the Traveller Information Systems for Transit and their benefits, components, and requirements. The last area introduces innovation in intelligent transportation systems with specific focus on Open and Big data. Case-studies and examples of implementations in each area illustrate the three sections of the course. **Fundamentals of ITS** • Introduction to ITS System • ITS System Standards and Architecture • Intelligent Transport System and Transport Innovations **Advanced Public Transportation Technologies** • Advanced Communications Systems (ACS) • Automatic Vehicle Location (AVL) Systems • In-Vehicle Diagnostic Systems • Automatic Passenger Counter Systems • Electronic Payment Systems • Real time fleet management systems **Innovation in Intelligent Transportation Systems** • Big Data for Transportation and its use • Using Crowdsourced Data from Social Media to Enhance Transit Operation • Getting Started with Open Data: Open Data for transportation agencies

All training content, format, methodologies and length can be customized to the company's needs and interests.

	• Smart Mobility Solutions and Smart Liveable Cities • Connected Vehicles
Objectives	Upon completion of the course, participants will be able to: • Explain the Main ITS components and Technologies • Illustrate the ITS system standards and Architecture • Describe the different components of public transportation technologies • Explain the relationship between the key concepts and components of the ITS systems architecture and the basic design of traveller information systems for transit. • Identify measures (or metrics) to assess the benefits and other impacts of traveller information systems for transit. • Describe the objectives, limitations, and major factors associated with the development of traveller information systems. • Explore the use of ITS applications in public transit in the areas of fleet management and operations, traveler information systems, and transportation demand management. • Explore the recent advances in the area of Intelligent Mobility and Smart Cities
Methodology	• Interactive plenary sessions including overview of the topic, presentation and discussion of the latest trends and developments • Presentation of good practice examples by experts and students • Additional opportunity to exchange experiences and discuss hot topics during workshops in smaller groups
Trainers	High level IT experts with extensive knowledge and expertise in public transport sector

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