



# Advances and Challenges in 'Intelligent Transportation' The Evolution of ICT to Address Transport Challenges in Developing Countries

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Monografía

Transport efficiency and safety in the advanced economies have long benefited from information and communication technology (ICT). However, these ICT applications have typically been high-cost, customized infrastructure systems. Now the era of the Internet, digital mobile communication, and 'big data' analysis has created a new global potential for less costly and more powerful 'intelligent transport systems' (ITS). The World Bank is supporting client transport agencies in deploying these new tools, including cloud-based services, open data standards, and smartphone applications, to more efficiently manage transportation assets and improve road safety. In the process, such projects have also demonstrated improvements in the traveler's experience and the attractiveness of public transit. Moreover, the greater potential of the new technologies to reduce congestion and travel times means that the new era has also strengthened the potential of ITS to reduce greenhouse gas (GHG) emissions. However, realizing the potential of ITS in developing countries depends on improvements in assessment practices to find what works best and in the data capabilities of domestic institutions. Significant improvements in these areas are critical to the success of ITS

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**Materia:** ACCESSIBILITY ACCIDENTS ADMINISTRATION AIR AIR POLLUTION AREA TRAFFIC CONTROL AXLE LOADS BUS BUSES CAPABILITIES CITY BUSES COMMUNICATION COMMUNICATION TECHNOLOGY CONGESTION CONTROL SYSTEMS CRASH REDUCTIONS DATA DATA ANALYSIS DATA ANALYSIS ELECTRONIC SIGNAGE EMERGENCY RESPONSE EMISSIONS FARE COLLECTION FARE SYSTEMS Transbordadores GLOBAL POSITIONING SYSTEM GPS GREENHOUSE GAS HIGHWAY ICT IMPROVING ROAD SAFETY INFORMATION INFRASTRUCTURE INSPECTION INSTITUTIONS INTELLIGENT TRANSPORT SYSTEMS INTELLIGENT TRANSPORTATION INTEROPERABILITY Sistemas inteligentes de transporte MOBILE COMMUNICATION MOBILE PHONES NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION NATIONAL TRANSPORT NEW TECHNOLOGIES PHONE PHONES POLLUTION PROTOCOLS PUBLIC TRANSIT PUBLIC TRANSPORT PUBLIC TRANSPORT SYSTEMS RAPID TRANSIT RAW DATA REDUCTION IN TRAVEL RESULTS ROAD ROAD SAFETY ROAD SURFACE ROAD TRAFFIC ROAD USERS ROADS ROUGHNESS SAFETY SAFETY ADMINISTRATION SAFETY HAZARDS SIGNAGE SIGNS SPEED TECHNOLOGIES TECHNOLOGY TRAFFIC TRAFFIC CONTROL TRAFFIC MANAGEMENT TRAFFIC SAFETY TRAFFIC VIOLATIONS TRAINS TRANSIT TRANSIT ADMINISTRATION TRANSIT INFORMATION TRANSIT USE TRANSPORT TRANSPORT AGENCIES TRANSPORT EFFICIENCY TRANSPORT INFRASTRUCTURE TRANSPORT MODES TRANSPORT SYSTEMS TRANSPORTATION TRAVEL TRAVEL DEMAND TRAVEL TIMES TRAVELERS TRUCKS URBAN SYSTEMS URBAN TRANSPORT USER USERS VEHICLE VEHICLE FLOW WEB

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