

Commonwealth of Puerto Rico
Puerto Rico Highway and Transportation Authority

Intelligent Transportation Systems & Transit

Metropolitan Region of San Juan

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San Juan Metropolitan Region



San Juan Metropolitan Region

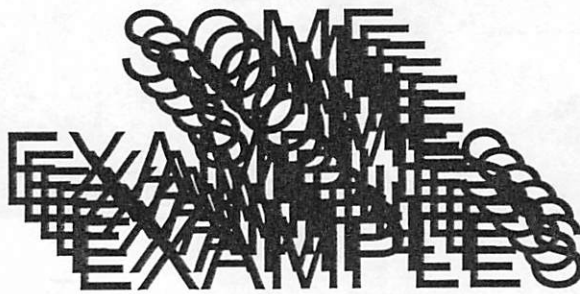
- Problemas:
 - High Congestion Level
 - Restricted Right of Way
 - Lots of Commuter Trips
- Solutions
 - Capacity Improvements by applying new technology
 - Implementation of ITS

WHAT IS ITS?

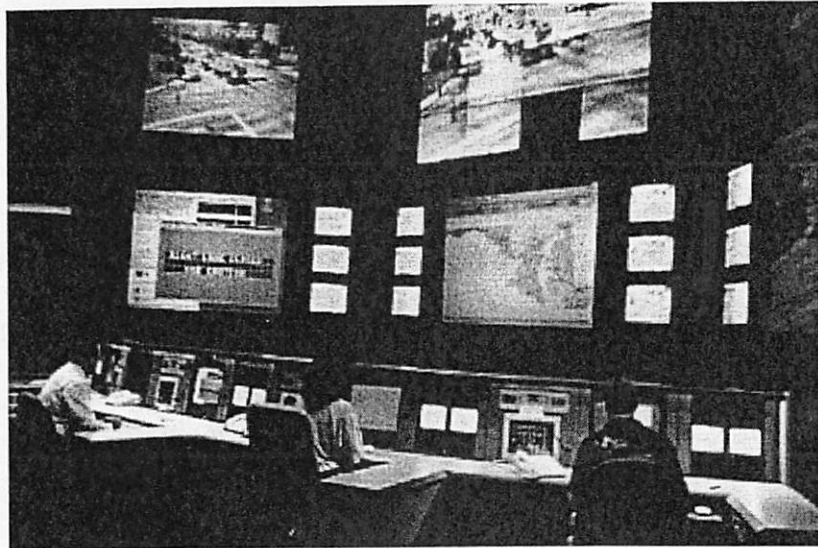


ITS APPLICATIONS

- Traffic Management Center
- Incident Management Center
- Traveler Information Systems
- Electronic Toll Collection
- Advanced Vehicle Location
- Commercial Vehicle Operations



INCIDENT MANAGEMENT CENTER



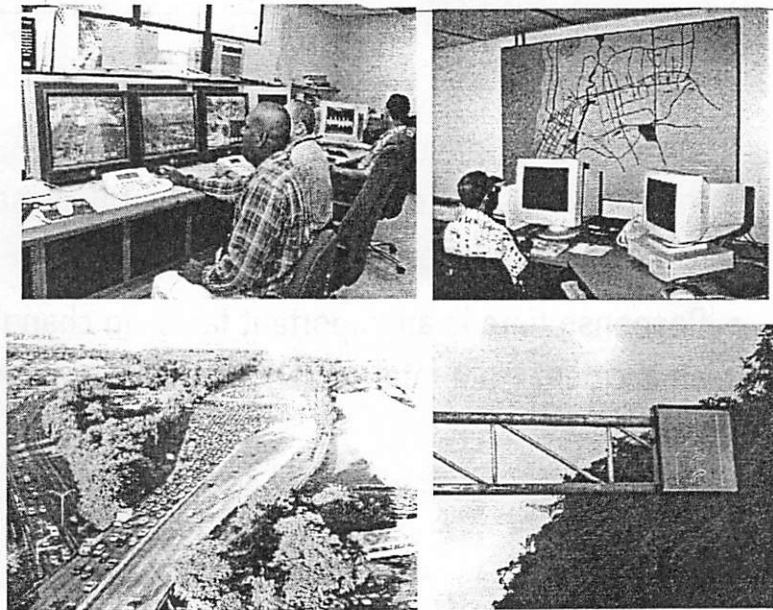
ITS TOOLS FOR INCIDENT MANAGEMENT



Service Patrol



Traffic Management Center

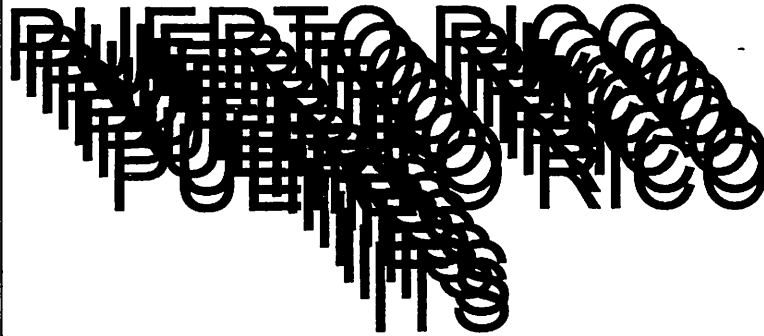


Traveler Information

- Informed travelers can avoid problems and reduce congestion
- Use HAR to inform motorists of trouble ahead
- Use Internet web to provide advanced travel information
- Provide information for trip planning

Central Dispatch Center

- Using AVL technology and Pictures from the Incident Management Center can identify closest vehicle and reduce response time.
- Response time is an important factor in changing an accident from fatal or serious injury to minor injury



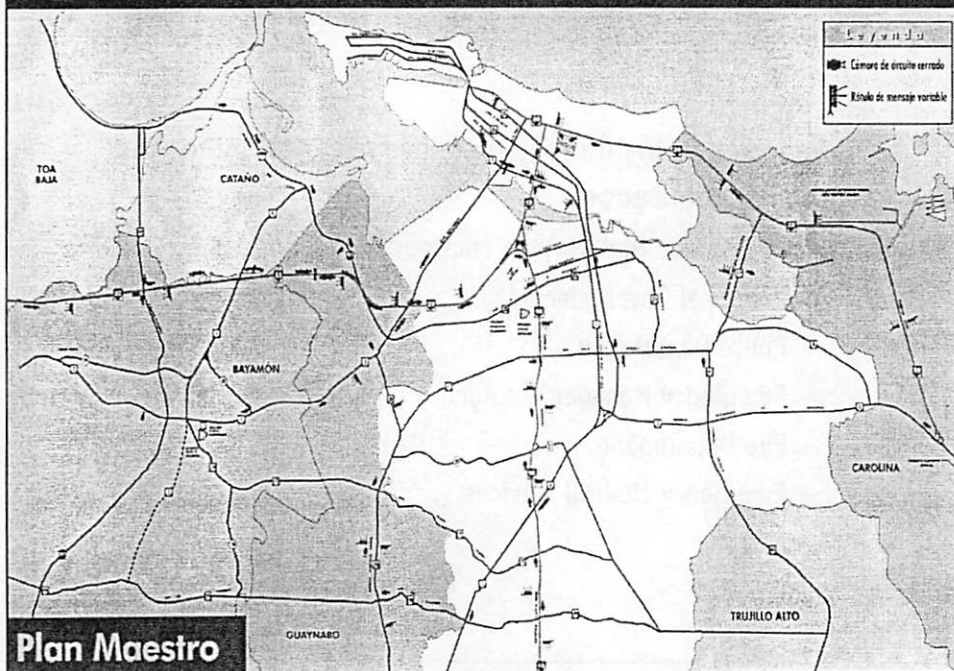
ITS- STAKE HOLDERS

- Agencies or Institutions that have a special interest in the ITS applications
 - Puerto Rico Highway and Transportation
 - Municipal Governments
 - Police Department
 - Emergency Management Agency
 - Fire Department
 - Emergency Medical Services
 - Media

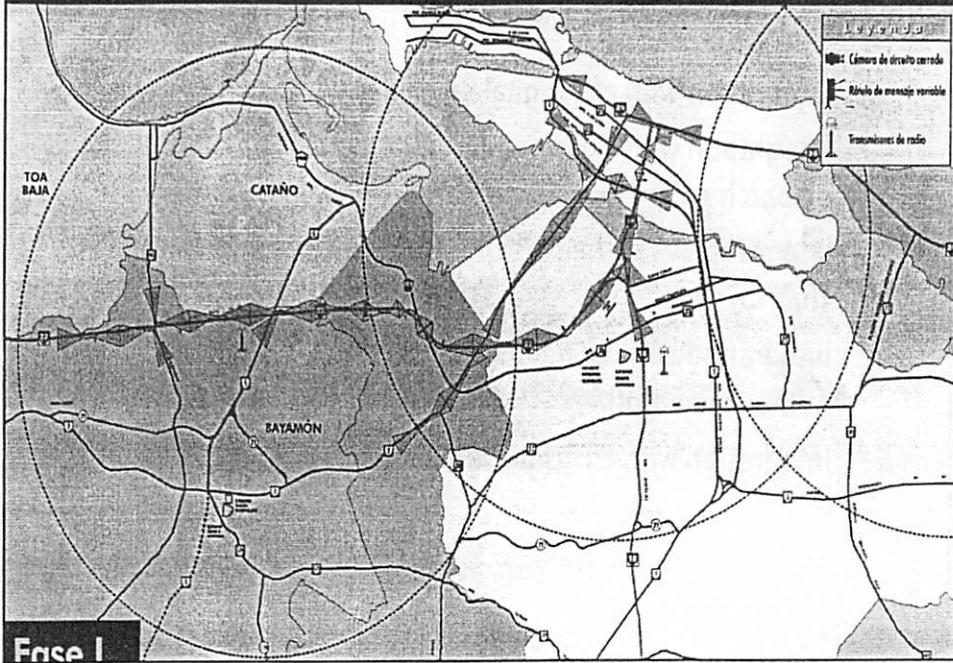
ITS- Architecture

- Completed TIER-II in December
- Preparing Final Architecture
- Market Groups to be Implemented

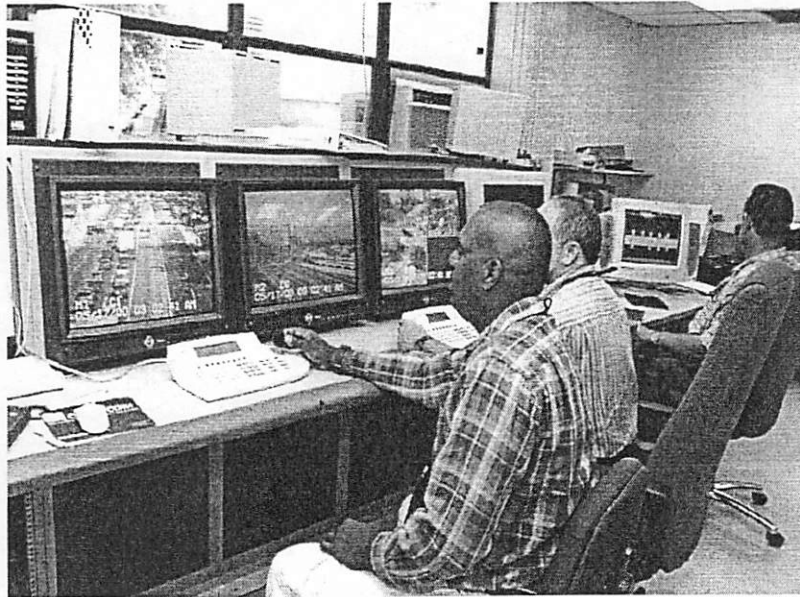
Implementación de Sistema Inteligente de Transportación



Implementación de Sistema Inteligente de Transportación



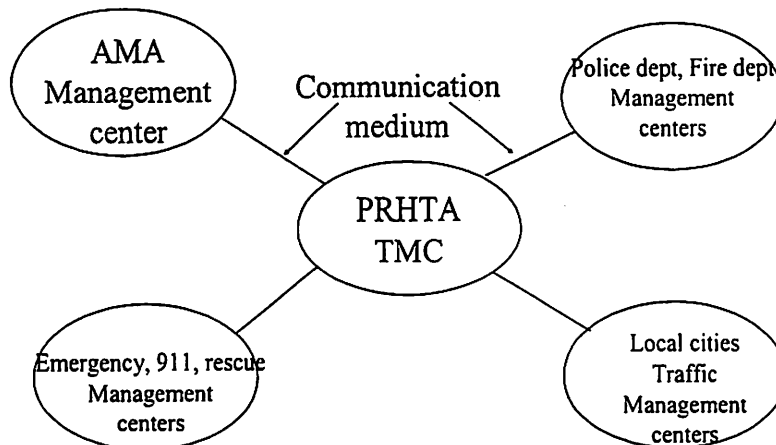
ITS PILOT PROJECT



FUTURE TOOLS

- Integration with city signal subsystem
- Integration with Police and Emergencies computer aided dispatch subsystems.
- Integration with road-weather information subsystems (R/WIS)
- Integration with AVL subsystems Metropolitan Bus Authority and others
- Integration with ETC subsystems (data probe collection)

OUR FUTURE VISION OF ITS SYSTEMS AND ARCHITECTURE



QUESTIONS ?

