



INTEGRATED MOBILITY MANAGEMENT TECHNOLOGY PLATFORM FOR THE CITY OF MEDELLIN

TOWARD A SMART CITY MODEL THROUGH SMART AND SUSTAINABLE MOBILITY MANAGEMENT



Context

Smart management of mobility systems

The increasing number of vehicles traveling in cities has transformed traffic management into a citizen service that requires the highest technological investment and boost in recent years. This has allowed cities to create smart mobility management systems that have acted as a model and basis for creating other smart services.

Over the last three years, Medellín has become a model to be imitated with regards to integral, smart and sustainable mobility management.

Indra's technology has allowed Medellín to shift toward a smart city model and to make progress in its commitment to sustainable mobility, for which the second largest city in Colombia has been granted the International Sustainable Transport Award 2012.

Provider of the smart mobility management technological platform of the reference city for smart and sustainable transport and mobility

Monitoring and tracking of traffic in real time

Implementation in Medellín of the HERMES platform for integrating and managing existing mobility systems into a single, smart system through new integrated management solutions of added value.

The HERMES platform offers integrated monitoring and management of:

- Stoptlight control system.
- CCTV system and automated incident detection.

- User information system through variable message signs.
- Photodetection system.
- Logistics planning system.
- Incident management system.
- Information management system.
- Public transportation system.

The non-proprietary and modular solution proposed by Indra allows for applying global policies on mobility that include public and private transport and directly involve the citizen as a basic part of smart mobility management.

Technological leaders in Smart Traffic and Transport management, providing tools for mobility managers that improve the habitability and sustainability of cities

Benefits

Integrated, smart infrastructure management

- Centralized, global solution that allows for the integrated, smart management of the city's existing mobility infrastructures.
- Decrease in incident detection time.
- Optimization of resource management.
- Fewer accidents.
- Improved decision-making processes.

Integrated mobility management permits, using existing systems, improving planning and management processes and

responding to incidents, yielding results for administrators as well as citizens which are not obtainable through the individual management of systems.

Leaders in the smart management of transport and mobility, managing infrastructures in over 40 countries

Results

Safety and efficiency

1

Reduction in traffic accidents by 18%, particularly at intersections with stoplights.

2

Decrease in incident response times, from 35 minutes in 2007 to 19 minutes after implementing the HERMES platform, the current response time being 17 minutes.

3

Reduction in traffic jams, travel times and improved global mobility for the city.

Indra in the sector

Operations across the five continents

Our offering is designed for public bodies and private companies involved in the operation and maintenance of different road types (urban, intercity, highways, tunnels, tolls, bridges, etc.). We approach projects on the basis of a close relationship with the customer and an in-depth knowledge of their needs. Our intelligent traffic technology and toll systems offer integrated coverage for highways, providing users with

increased safety and quality, and making it possible to consult road conditions in real time.

Countries such as the United States, Canada, Ireland, China, Colombia, Brazil, Argentina or Morocco use our technology for the optimum management of mobility and access control.

We have strengthened our presence in India, where we have installed state-of-the-art road management and toll systems for the Andhra Pradesh, Karnataka, Rajasthan and Gujarat highways. Additionally, we install traffic meters, variable message signs, SOS posts and other services across other highways in the country, thus increasing our presence in emerging markets.



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Indra reserves the right to modify these specifications without prior notice.