Oracle Smart City Platform

Managing Mobility

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Sustainable City Trending Topics

#QualityOfLife
Providing instruments that monitor, analyze and improve the residents’ quality of living

#SustainableUrbanization
Urban infrastructure satisfying current and future generations in a sustainable manner

#InternetOfThings
Urban networks and sensors change how we understand, control and design our cities
Sustainable Urbanization

An urban infrastructure is **sustainable** when the networks of water, sewer, roads, and other systems are managed in a way that meets the needs of **current and future generations** in a socially, economically and environmentally sustainable manner.
Internet of Things – the City’s pulse

- Weather
- Carbon Emission
- Public Works
- Public Safety
- Air Pollution
- Asset Mgt
- Bus Arrivals
- Parking Space
- Traffic Flow
- Parking Space
- Radiation
- Smart Grid
- Car Routing
- Waste Collection
- Water & Sewage
- Earth Quake
- Home Care
- Dynamic Lighting
Local Communities

Decentral Power Production
Community-owned Energy
Renewable Energy
Community Income Generation
Clean Energy Jobs

Neighborhood Watch
Crime Prevention
Collaboration With Police
Community Mobilization
Proactive Local Public Safety

Reduce Congestion
Improving Local Mobility
Reduced Fuel Costs
Less Parking Fees
Direct Impact On Community

Social Cohesion - Influence Behaviour Change - Raising Awareness In Local Communities
City Platform re-engages Constituents with City

- Collaboration
  - City Service
  - Citizen Empowerment
  - Social Media

- Harmonization
  - City Operation
  - Business Productivity
  - Entrepreneurs

- Modernization
  - City Infrastructure
  - Sustainable City
  - Sensors
Mobile City – Travel and Transportation

- Service & Outreach
- Green Communities
- Maximize Mobility
- Transportation Services
- Real-Time Mobility Advise
- Sensor Network
Sfpark - San Francisco, USA

City Operation
Business Intelligence demand driven pricing of parkingspaces

Business Productivity
3rd party service providers enhance real time parking data

City Infrastructure
Loading sensor data on parking availability, payments, bus arrivals

Citizen Empowerment
Less traffic, fewer citations, guides drivers to parking lots and bus

Sustainable City
Streets less congested, less violations less smog and safer
COTRAL, larger Rome region, Italy

City Service
Proactive info on route changes, optimal route planning

City Operation
Geographical Motion Monitoring and Management with MapViewer

City Infrastructure
Oracle Spatial Database stores real time bus info

Sustainable City
Bus position, speed, engine status, # passengers, fuel…
MOBI.E, Electric Vehicle Charging, Portugal

Citizen Empowerment
Charging Station Location, Availability and Reservation

City Operation
Oracle Utilities Billing, Financial Settlement, Outage Management

Business Productivity
For all Equipment Manufacturers, Utilities & Private Operators

City Infrastructure
Integrating Meter & Charging Data with operational management

Sustainable City
Smart Meter Grid supporting Charging Stations

Illustrations © MOBI.E
Transport for London – Traffic Directorate Data Service, UK

City Operation
Quickly responds to constantly changing operational environment

Business Productivity
External Data Service for public and Service Providers

City Infrastructure
BI and Spatial Database real time geographical monitoring/analysis

Sustainable City
100’s of millions rows per day from traffic lights, road works, CCTV
Singapore Land Authority

**City Service**
Citizens find bus routes, emergency services on maps

**City Operation**
Saves US$11.5M application costs for 70 government agencies

**City Infrastructure**
SOA based Geospatial Data Sharing reduces duplication

**Citizen Empowerment**
360+ crowd sourced layers of geospatial data for analysis

**Business Productivity**
Easier to share geo data across multiple agencies

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