

# QUANTUM INVENTIONS

*---mobility intelligence---*

A company of Continental corporation

# SMART CITIES SOLUTIONS

[www.quantuminventions.com](http://www.quantuminventions.com)

# BIG DATA TECHNOLOGIES

Quantum Inventions offers a unified end-to-end urban mobility platform for smart cities that ranges from data collection and sourcing to the publication of value-added services, client applications and applications for analytical insights.



## A WEALTH OF EXPERTISE AND EXPERIENCE

Governments can rely on QI's core technologies to measure the digital pulse of the city, redefine objectives and develop smart-city services. Our core technologies include:

### CORE TECHNOLOGY 1

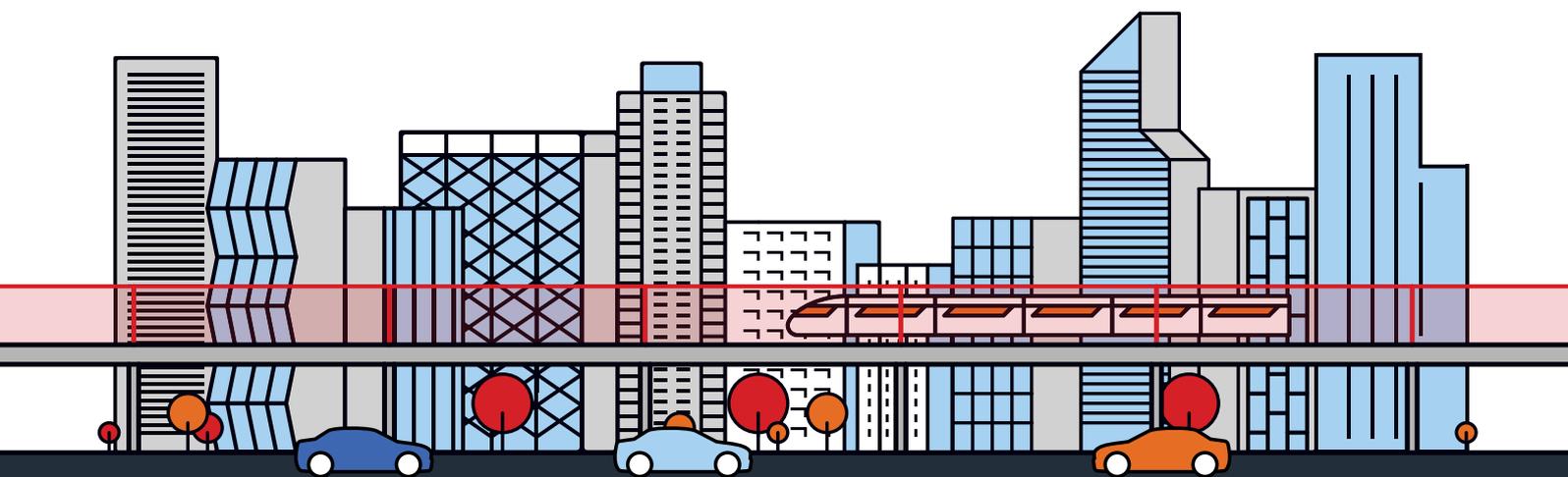
#### Quantum Online Routing System (QORS)

State-of-the-art routing platform that provides dynamic routes based on multiple static and dynamic criteria. Capable to pull dynamic information from the source, QORS allows the creation of routes that can deal with constraints such as real-time traffic and urban road pricing.

### CORE TECHNOLOGY 2

#### Traveler Information Platform (TRIP)

Platform for creation, fusion and dissemination of traffic information obtained from different sources. Built as an extensible platform, TRIP can take in data from multiple traffic flow sources, which can then be merged and fused into a single, unified situation picture.

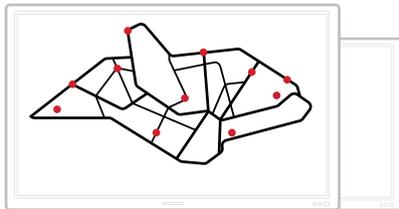




## QI URBAN TRANSPORT SMART CITY PLATFORM

We leverage our expertise across GIS, maps, dynamic navigation & routing, real-time data processing & analytics and traffic intelligence to implement innovative solutions for the smart city platform.

GOVERNMENT



CONSUMER



ENTERPRISE



### ANALYTICS & INTELLIGENCE

Real-time Analytics

Offline Analytics

### DISSEMINATION

API

XML

TPEG

TMC

Datex-II

Feed Publishers

### SERVICE DELIVERY

Dynamic Router

Alert Creators

ETA Estimator

Map/Data Rendering

Standard Encoders

Data Forwarder

### DATA INTEGRATION

Data Fusion Engine

Error Detection

Historical/Statistical Data

Correlation & Coherency Analysis

### DATA AGGREGATION

Geo-referencing & Tagging

Data Analysis

Data Collection

DATA SENSORS

1

### TRANSPORTATION

- Consumer Navigation
- Enterprise Fleets
- OD Matrix Clusters

2

### TRAFFIC INFO

- Road Speeds
- Incident Data
- Toll Pricing

3

### OTHER DATA

- Telco Mobility
- User Generated Data
- Events



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