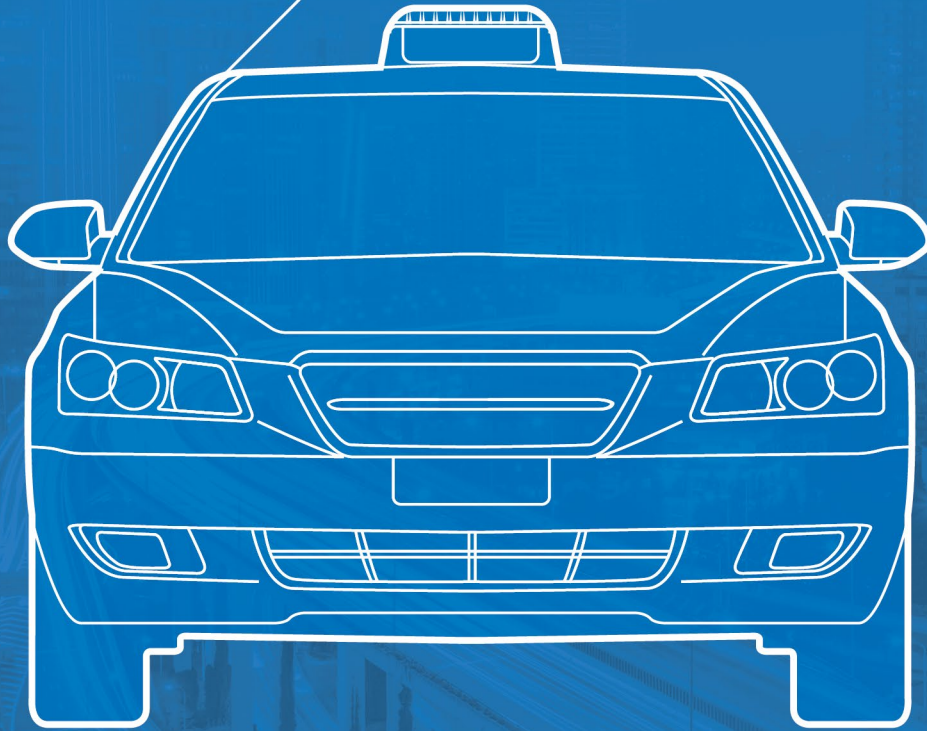


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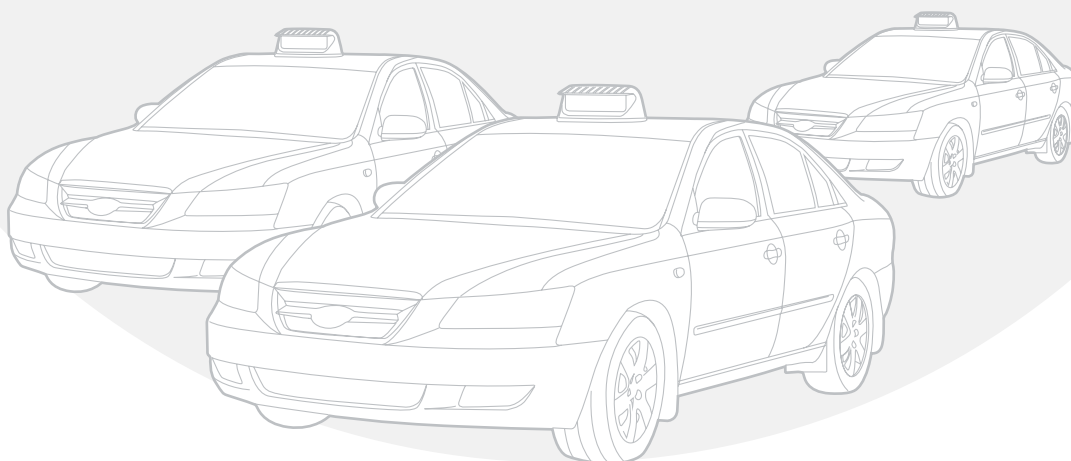
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# SMART SOLUTIONS FOR TAXI OPERATORS



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



## SMART SOLUTIONS FOR TAXI OPERATIONS

**Execute the end-to-end taxi dispatch process, from booking to tracking to managing with our complete solution.**

Quantum Inventions (QI) offers a suite of systems and technologies that can be used for enabling smart solutions for taxi companies. These technologies include traffic-based routing, reverse geocoding, dispatch optimization, intelligent search, map data rendering and full turn-by-turn navigation to serve customers better and to improve the experience of drivers.

A stylized illustration of a laptop screen displaying a map with a red line indicating a route. The map is composed of geometric shapes and lines, representing streets and landmarks.

### ROUTING BASED DISPATCH SYSTEM

## QORS-AE

**Quantum Inventions' Online Routing System (QORS-AE)** is a flexible dispatch software that enables routing based taxi dispatch:

Provides a simple HTTP-based Enterprise Server for high performance routing from multiple taxis to the pick-up point and returns a list of taxis, sorted on the basis of actual driving distance

Returns the driving route from the pickup location to the destination to allow fare estimation

Enables estimation of driving distance and estimated travel time, helping to provide accurate information to the passenger

Integrates seamlessly with your existing dispatch software

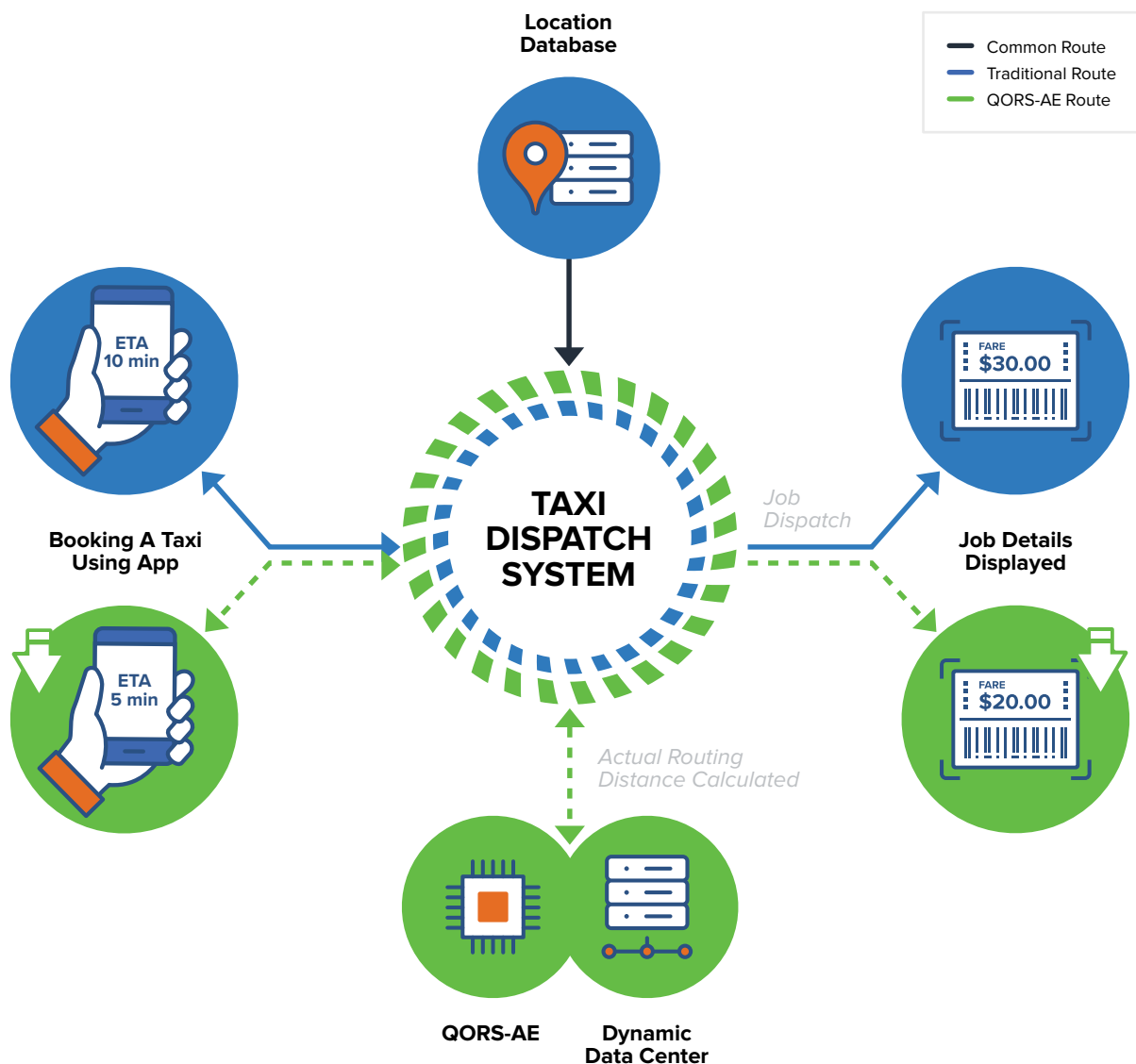
## DISPATCH SYSTEM COMPARISON

## TRADITIONAL TAXI DISPATCH SYSTEM

- Routing based on **straight line distance**
- **Longer** distance travelled by driver to reach customer
- Better positioned taxis get **overlooked**
- Leads to dispatch **delays**
- **Increased** waiting time for the customer

## QORS-AE TAXI DISPATCH SYSTEM

- Routing based on **actual driving distance**
- **Optimized** routing
- **Increased** efficiency of dispatch
- **Accurate** ETA to pick-up
- **Reduced** customer wait-time



Taxis under consideration for the job

Nearest taxi based on routing distance

Fleet of available taxis

Customer location

Job ID

-

Latitude

1.296239

Longitude

103.783636

Routing Option

Shortest

Sort By

Distance

Time Taken

1376 m/s

Calculate

Back to Job List

Clear

ID	Distance	Time	R Cost	Action
SH07831I	241m	30s	243	Dispatch
SHE7307V	257m	32s	261	Dispatch
SHB7619G	260m	32s	264	Dispatch
SHK9069M	367m	145s	372	Dispatch
SHM424B	378m	158s	383	Dispatch
SHY3207N	381m	158s	386	Dispatch
SHK9855S	399m	141s	408	Dispatch
SHT6495A	410m	187s	414	Dispatch
SHA8563T	471m	212s	462	Dispatch

Map showing the dispatch process. A popup for taxi SH07831I displays the following information:

- ID: SH07831I
- Distance: 241m
- Time: 30 sec
- Latitude: 1.294416
- Longitude: 193.784839

# DISPATCH PROCESS

**QORS-AE dispatches the taxi that will travel the shortest distance and take the minimum time to reach the pick-up location.**

It can optionally integrate real-time traffic information, where available, sourced from **QI's Traffic Information Platform (TRIP)**, as part of the dispatch planning and routing process to better reflect the situations on the road and the estimated driving conditions.





## ADD-ON FEATURES

Execute the end-to-end taxi dispatch process, from booking to tracking to managing with our complete solution.

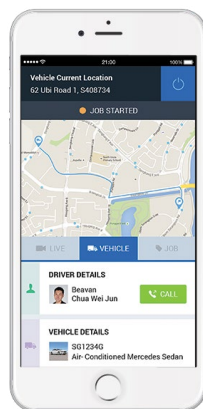
Intelligent apps for driver and passenger to receive and manage the taxi bookings with few taps. Easy to download on any smartphone, the apps can be completely customized to meet your corporate needs.

### CUSTOMIZABLE APPS



#### **GALACTIO** - *Driver Experience*

- Predictive search for location accuracy
- Built-in navigation system for fast routing and re-routing
- Driver assistance alert features such as warnings for bus lanes, speed cameras and more
- Job dashboard to receive jobs in real time



#### **TRACKSYNQ** - *Customer Convenience*

- View and book a taxi instantly
- Track the route and ETA of the cab
- Real-time chat to communicate with the driver
- Rate and review quality of the service



GPS tracking, monitoring and fleet dispatch capability



Map agnostic



Secure and reliable



Scalable system



Built-in turn-by-turn navigation



Cloud platform



Turn-key solution

# QUANTUM INVENTIONS

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