Enable Smart City “Smarter” with BDS-GNSS Precise Correction Service

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Contents

01 Introduction of BDS Precise Correction Service
02 Overview of FutureCity
03 FutureCity Showcase Deqing
04 QXSI Universe Voice Project
Contents

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02 Overview of FutureCity
03 FutureCity Showcase Deqing
04 QXSI Universe Voice Project
TO PROVIDE PRECISE PNT (Positioning Navigation and Timing) As PUBLIC SERVICE (wide coverage, highly available, easy to access and cheap to use)
Contents

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02 Overview of FutureCity

03 FutureCity Showcase Deqing

04 QXSI Universe Voice Project
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How Can We Solve the Problem?

The nature of smart city: leverage advanced digital technologies to intelligently interconnect physical infrastructure, public services, industry verticals, and other relevant data sources to resolve various urban challenges.

FutureCity: To empower the Smart City with the ability of precise PNT (Positioning Navigation and Timing) through the BDS-GNSS precise positioning service; Supplement of traditional Smart City without data of precise PNT information.
1st Step:
Under a unified time and coordinate system, we try to mirror the city in the digitalized world: full coverage, full features, real-time dynamic description so that these digitalized data can be processed the City Brain from Alibaba Cloud.
2nd Step:
IoT technology binds smart networks of buildings, vehicles, homes, and other commercial devices to exchange and aggregate data. The multitude of data collected via IoT sensors is more accurate with Precise PNT info.
Camera + GNSS Module = High Precision Timing and Positioning Camera

Positioning Accuracy: Decimeter
Decentralized Time Stamping: 30 nanoseconds

Event Detection and Analysis
License Plate No. and Model

Event Detection and Analysis
Traffic Restrictions Breach

Event Detection and Analysis
Routing Inspection
New IoT Products: Traffic Cone and Emergency Tripod
Contents

01 Introduction of BDS Precise Correction Service

02 Overview of FutureCity

03 FutureCity Showcase Deqing

04 QXSI Universe Voice Project
“FutureCity”

Data Base
- Data Safety
- Data Asset
- Data Manage
- Data Develop
- Data Cube
- Data Collect
AI Algorithm/Service platform
- Deep Learning Analysis Model
- Algorithm Deployment
- Algorithm Engine

Precise Positioning Service Platform
- BDS-GNSS
- QXSI CORS
- QXSI Magic Cube
- QXSI FindV
- QXSI FindU
- AGNSS Service
- SLAM

ITS
- BUS Dispatching System
- UAV Monitoring

SAR
- Firefighting
- Navigation

Smart Tourism
- Taxi Management
- V2I

Transport
- Traffic Analysis Cluster
- Traffic Cluster

BIG Data of Industrial information
- Traffic Lights
- Traffic Police
- Traffic Line
- Tour line

Public Facility Management
- Traffic Light Solution

ALIBABA CITY BRAIN
- Deep Learning Analysis Model
- Algorithm Deployment
- Algorithm Engine

Deqing

V2I
- UAV Monitoring
- Firefighting
- Navigation
- Taxi Management
- V2I

Transport
- Traffic Analysis Cluster
- Traffic Lights
- Traffic Police
- Traffic Line
- Tour line

Deqing

V2I
- UAV Monitoring
- Firefighting
- Navigation
- Taxi Management
- V2I

Transport
- Traffic Analysis Cluster
- Traffic Lights
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Deqing
“FutureCity” Application—Infrastructure Monitoring and Management
“FutureCity” Application—Public Transport Monitoring and Management
“FutureCity” Application - Precise Positioning Camera In Joint Action with UAV
Contents

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02 Overview of FutureCity

03 FutureCity Showcase Deqing

04 QXSI Universe Voice Project
Universe Voice • Global Precise PNT Service from QXSI

- BDS-GNSS
- QXSI Global Reference Stations
- QXSI Domestic Reference Stations
- QXSI Open Service Platform
- QXSI Satellite L-Band Service

Global Technology  Global Standard  Global Market

- Autonomou s Driving
- UAV Application
- Marine
- Surveying and Mapping
- USV Application
- SAR
- Airborne Validation Test
- Public Safety
- Routine Inspection
Empower smart city with precise timing and positioning ability
Tag precise timing and positioning info onto each piece of data
To build a even smarter “FutureCity”

Thank You !

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