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FutureCity

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

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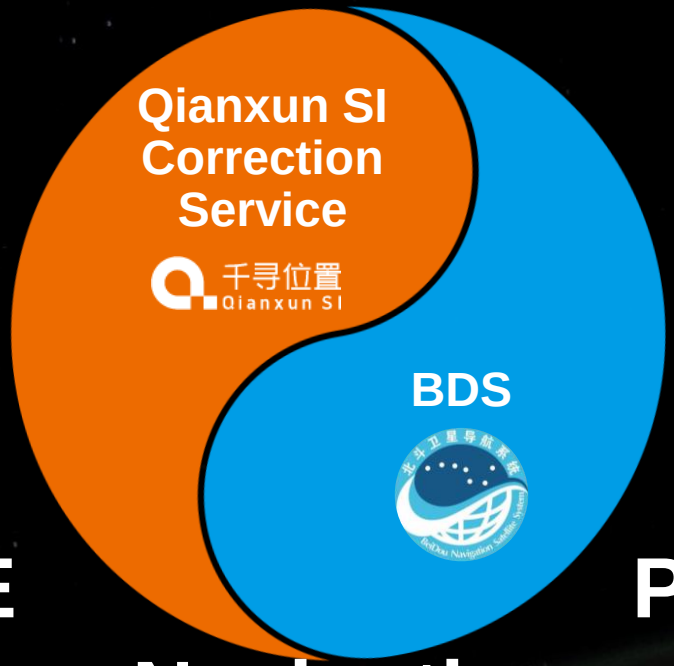
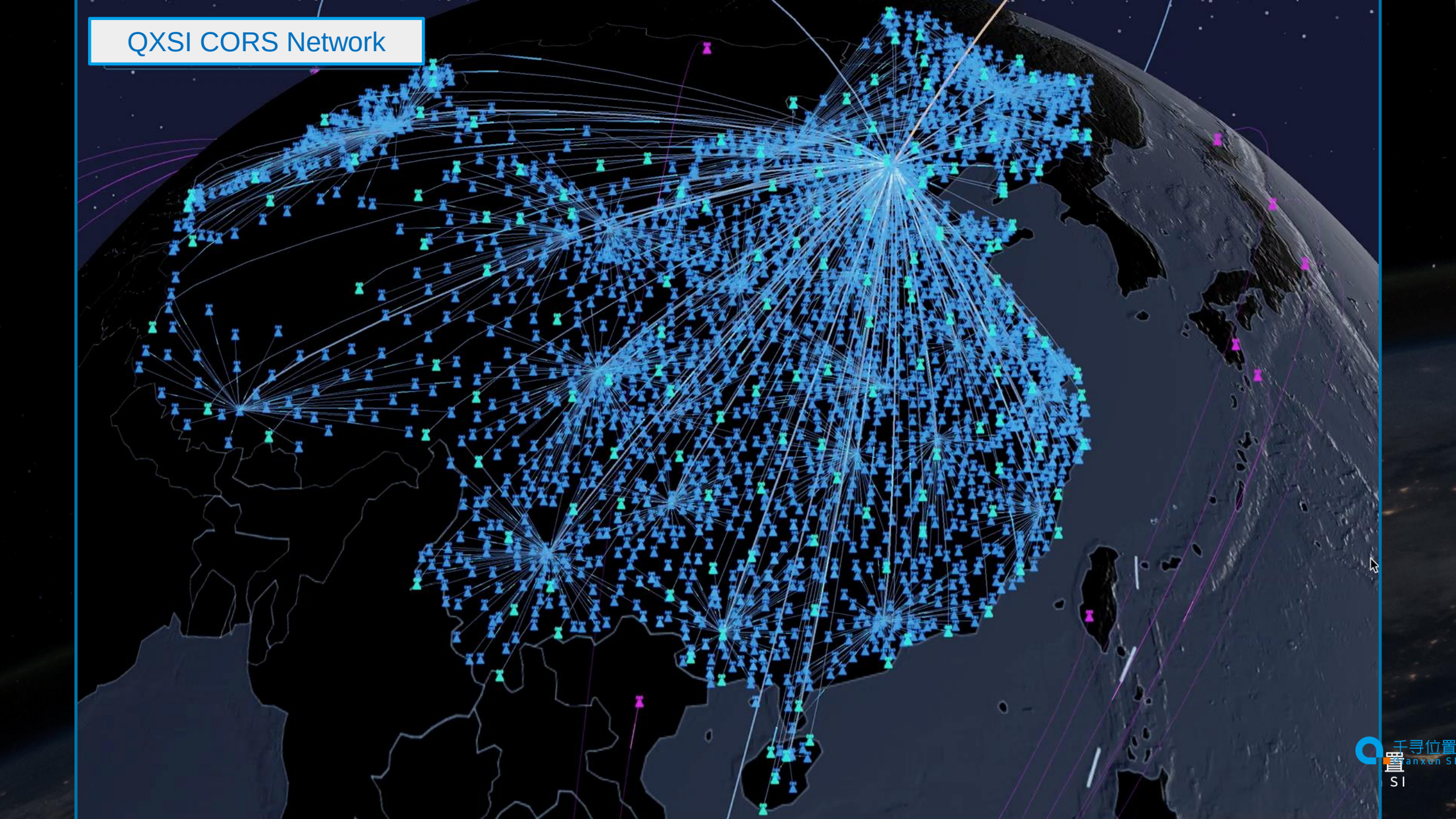


TO PROVIDE PRECISE PNT
（Positioning Navigation and Timing）
As
PUBLIC SERVICE
（wide coverage， highly available， easy to access and cheap to use）

ELECTRICITY @ INTERNET（TELECOM） CLOUD COMPUTING


QXSI CORS Network

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（喂 120吗）

（120?）

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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.

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Digital Twin

Traffic

Safe City

Emergency

Utility

Environment

City ECG

Cognitive Perception
Multi-dimensional awareness

Reasoning
Real-time decision making

Strategic Decision-making
Situational Intelligence

Machine Learning
Perpetual innovation

Computing Network

Precise PNT Network

Internet

Full coverage

Full Features

High Precision

Real Time-Dynamic

Precision Linking and mirrored

SAR

Public Safety

ITS

Utility

Environmental Protection

Infrastructure Monitoring

Reality World

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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.

Rearview Mirror

T-box

Helmet

“Magic Cube”: Algorithm + SDK + Cloud Service

Camera

ADAS

Child Watch

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

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New IoT Products: Traffic Cone and Emergency Tripod

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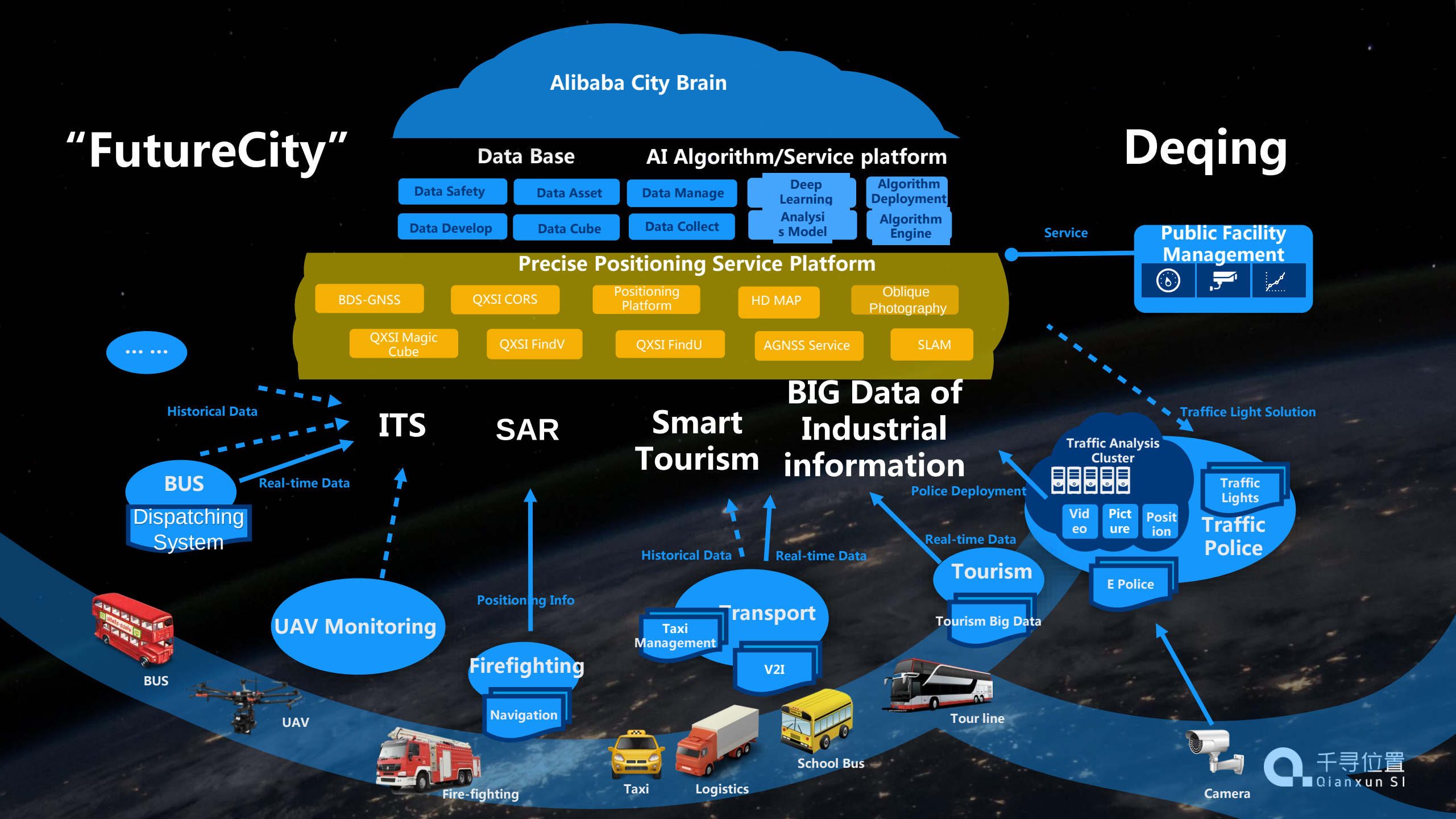
"FutureCity"
Deqing
Alibaba City Brain
Data Base
AI Algorithm/Service platform
Data Safety
Data Asset
Data Manage
Deep Learning
Algorithm Deployment
Data Develop
Data Cube
Data Collect
Analysis Model
Algorithm Engine
Service
Public Facility Management
Precise Positioning Service Platform
BDS-GNSS
QXSI CORS
Positioning Platform
HD MAP
Oblique Photography
QXSI Magic Cube
QXSI FindV
QXSI FindU
AGNSS Service
SLAM
... ...
Historical Data
Real-time Data
BUS Dispatching System
ITS
SAR
Smart Tourism
BIG Data of Industrial information
Traffice Light Solution
Traffic Analysis Cluster
Vid eo
Pict ure
Posit ion
Traffic Lights
Traffic Police
E Police
Police Deployment
Real-time Data
Tourism
Tourism Big Data
Historical Data
Real-time Data
Positioning Info
UAV Monitoring
Transport
Taxi Management
V2I
Firefighting
Navigation
BUS
UAV
Fire-fighting
Taxi
Logistics
School Bus
Tour line
Camera
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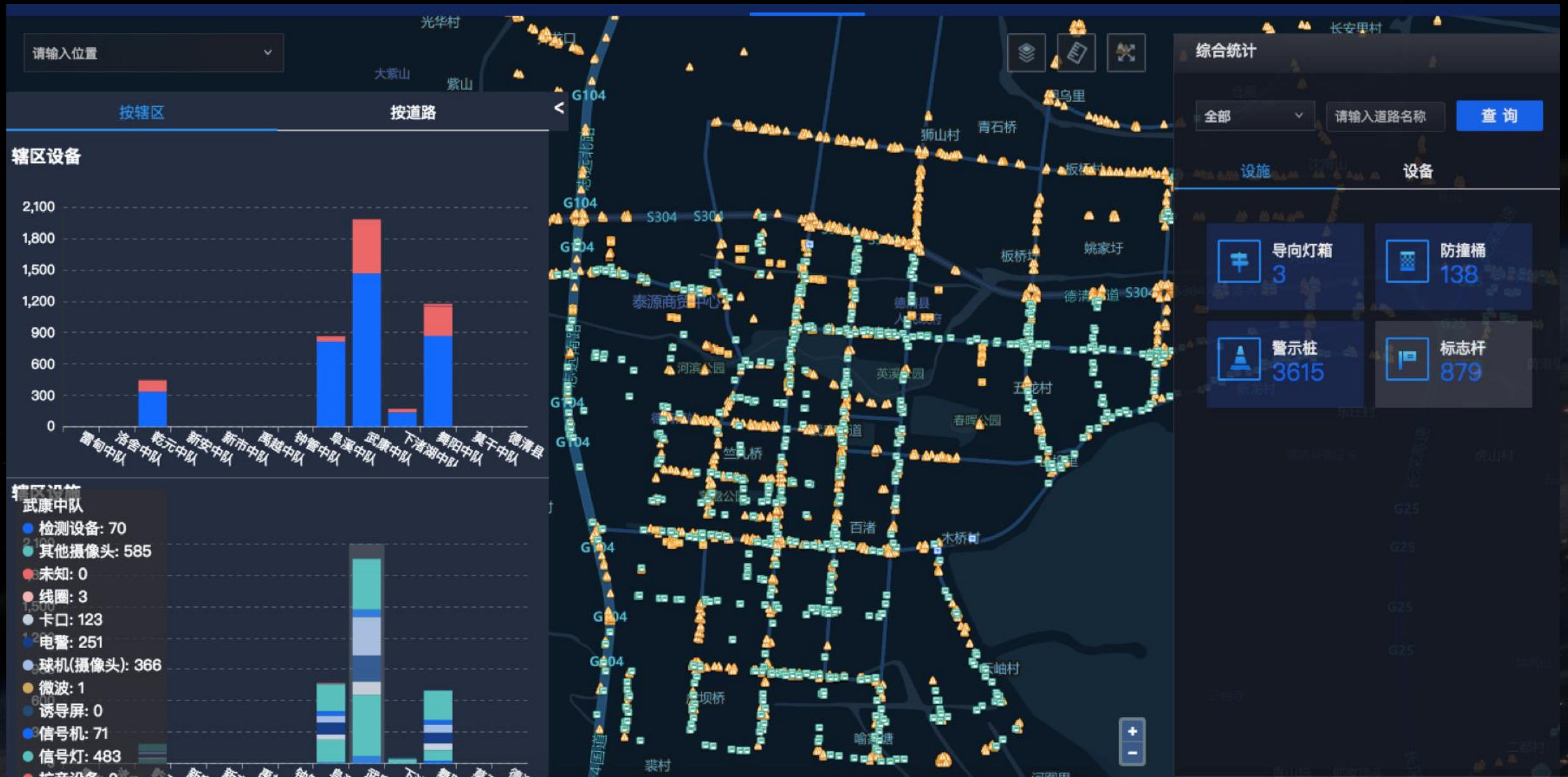
“FutureCity” Application—Infrastructure Monitoring and Management



“FutureCity ” Application—Public Transport Monitoring and Management

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“FutureCity ” Application- Precise Positioning Camera In Joint Action with UAV

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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

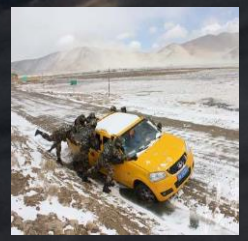
Autonomous Driving

UAV Application

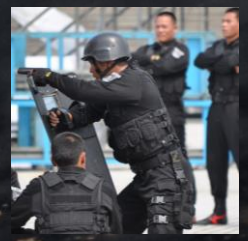
Marine

Surveying and Mapping

USV Application


SAR

Airborne Validation Test


Public Safety

Routine Inspection

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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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