

Solution Brief

Smart Cities

Cities must deliver greater value to improve public safety, transportation, energy efficiency, economic development and operating expenses. Delivering new services, increasing competitiveness with other cities and, complying with changing regulations while increasing sustainability provide real challenges.

DROOTOO enables cities to improve agility with a one-stop option to create new services, enable more informed communities, improve decision-making and planning. Provision and optimize city IT resources on-demand from major cloud providers. Enable cloud computing to provide new ways to connect with citizens and businesses, ensure greater transparency and improve operations.

Simplify your smart city cloud environment and scale cloud operations like never before. Enable distributed and multi-geo computing to achieve higher data governance for emerging use cases such as AI, edge computing, cloud migration, digital transformation. Re-use common city services across other cities.



Use Cases

- Traffic and transit management (smart parking, fleet management)
- Video surveillance
- Service automation
- Community collaboration
- Data compliance
- Public safety and city response

Improve and create new services

- Deliver key insights from city data and provide better services
- Provide rapid provisioning of new city services, generate higher revenues and lower TCO

Increase economic competitiveness

- Utilize multi-cloud networking and computing to enable new businesses and create jobs
- Support region to edge city application deployments

Increase sustainability and improve quality of life for citizens

- Improve decision making while planning smart city projects
- Have better governance and reduce tax payer burden

Supported Cloud Service Providers:

Amazon Web Service

Microsoft Azure

Google Cloud Platform

Alibaba Cloud

Distributed Cloud Computing network of over 250+ on-demand datacenters for smart city projects

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Smart City Deployment Platform Reference Architecture

CPH-M 01
P_r
Productivity

PRODUCTIVITY
 City product per capita
 Old Age Dependency Ratio
 Unemployment Rate

CPH-M 02
I_d
Infrastructure and Development

INFRASTRUCTURE & DEVELOPMENT
 Improved Shelter
 Improved Water
 Physician Density
 Internet Access
 Use of Public Transport
 Traffic Fatalities
 Length of Mass Transport
 Intersection Density
 Street Density
 Land Allocated to Streets

CPH-M 03
Q_i
Quality of Life

QUALITY OF LIFE
 Life Expectancy at Birth
 Under-Five Mortality Rate
 Literacy Rate
 Mean Years of Schooling
 Homicide Rate
 Green Area per capita

CPH-M 04
E_{si}
Equity and Social Inclusion

EQUITY & SOCIAL INCLUSION
 Gini Coefficient
 Poverty Rate
 Slum Households
 Youth Unemployment
 Equitable Secondary School Enrollment

CPH-M 05
E_s
Environmental Sustainability

ENVIRONMENTAL SUST.
 PM2.5 Concentration
 CO₂ Emissions
 Solid Waste Collection
 Waste Water treatment
 Share of Renewable Energy Consumption

CPH-M 06
U_{gl}
Urban Governance and Legislation

GOVERNANCE & LEGISLATION
 Voter Turnout
 Own Revenue Collection
 Days to Start a Business



Drootoo's KPI driven platform architecture helps in faster and efficient implementation of Smart City projects. It helps in lowering project cost, faster deployment time and efficient management of data & infrastructure.

