



111

mart, Sustainable, Synchronous Famagusta

"A city to live in"

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BD

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Account Manager

Cisco

Logicom Solutions

ш.

Director of Sales and

Our vision: For 30 years, we've focused on helping to change the way the world works, lives, plays, and learns

hope

Revenue: \$49.3B FY18 \$6.3B annual R&D Total Cash: \$46+B

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Our Strategy:

We create Secure and Intelligent Platform for Digital Business

possible

74K+ employees 480+ offices 60K partners

Logicom Solutions





What is Smart City

A **smart city** is an urban development vision to integrate multiple information and communication technology (ICT) and Internet of Things (IoT) solutions in a secure fashion to manage a city's assets – the city's assets include, but are not limited to, local departments' information systems, schools, libraries, transportation systems, hospitals, power plants, water supply networks, waste management, law enforcement, and other community services . . .

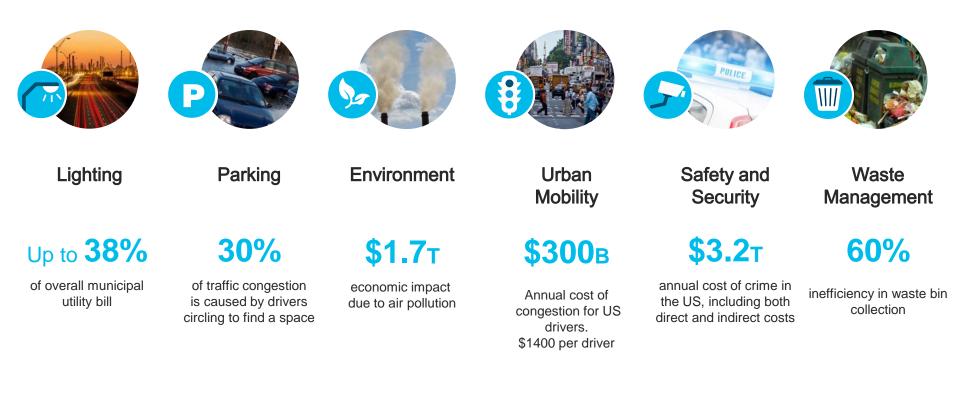
https://en.wikipedia.org/wiki/Smart_city

... there is no universally accepted definition of a smart city. It means different things to different people. The conceptualization of Smart City, therefore, varies from city to city and country to country, depending on the level of development, willingness to change and reform, resources and aspirations of the city residents.

Smart Cities Mission - http://smartcities.gov.in

Open data, Environment, People centric, Citizen engagement, Participation

Why smart cities?



Challenges in smart cities



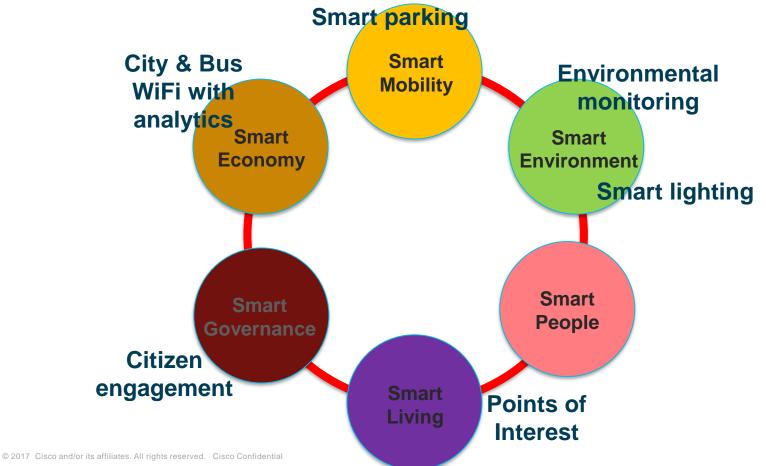
Vertically integrated sensors

No standardization across sensors

Lack of crossdomain data and information sharing

Fragmented application ecosystem

Smart City elements



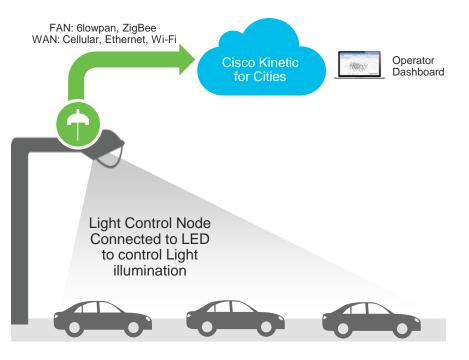
The Cisco approach



Cisco's Approach for Smart Cities



CKC Lighting - Use Cases



Customers

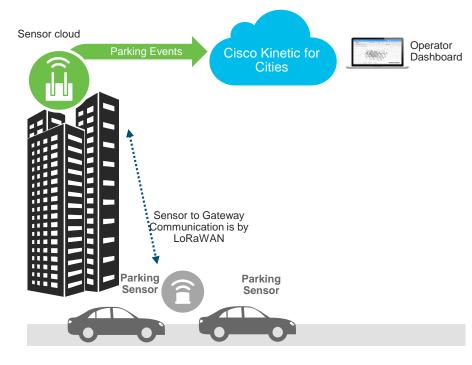
- City Lighting Department
- Urban Service Providers
- LED Manufacturers
- Utility/Power distribution companies

Customer Goals

- Reduce energy consumption (80%) and maintenance
- Improve citizen experience and safety through enhanced illumination
- Leverage existing network investment and infrastructure for future solutions

- Real Time Monitoring & Control
- Scheduling
- Cross-domain policies with environment, traffic, crowd, parking, safety and security

CKC Parking – Use Cases



Customers

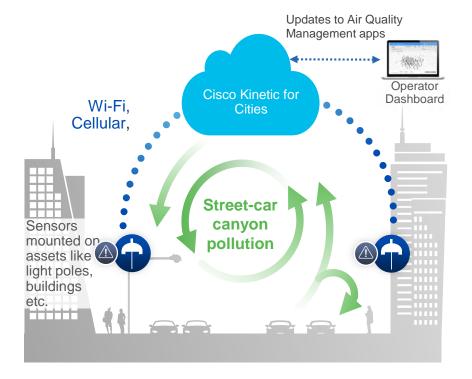
- City Parking Dept. / Parking Agencies
- Parking based Urban Operators
- Parking garages/Malls

Customer Goals

- · Maximize revenue from parking space and slots
- Generate additional revenue through demand-based parking pricing and more accurate ticketing of parking violations
- Enable citizens find parking more quickly -> reduce traffic congestion -> Environment

- Parking occupancy and availability
- Utilization reports and analytics
- Cross-domain linkage : Traffic, Crowd, Events, Weather

CKC Environment – Use Cases



Customers

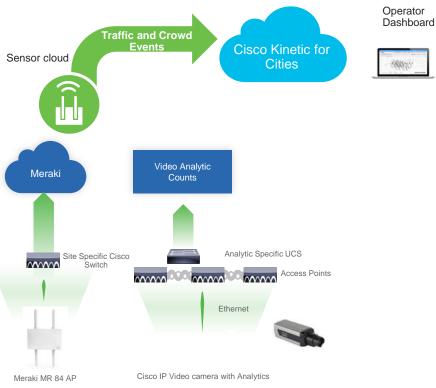
- Local Air Quality Agency
- Dept. of Transportation
- Dept. of Sustainability

Customer Goals

- Identify problematic pollution areas that would benefit from air quality sensors
- Deploy sensors in different locations to collect Air Quality Index and create awareness
- Test Urban Planning actions to mitigate poor air quality.

- Sensor based Air Quality
- Software modeling of Air Quality

CKC Urban Mobility - Use Cases



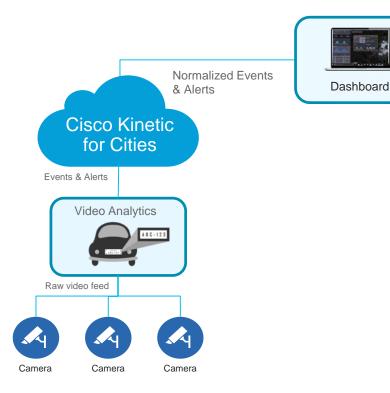
- Department of Transportation
- Chief Innovation Officers
- Departments of Economic Development

Customer Goals

- Holistic view into city traffic and crowd patterns helps in improving planning
- Greatly increases KPI for city planners while driving better ROI and savings

- Location Analytics
- Vehicle count, Classification, Direction
- Traffic violations, LPR
- Crowd counting, Overcrowding
- Cross domain: Environment, Safety & Security, Parking, Lighting

CKC Safety & Security - Use Cases



Customers

- Public Safety related agencies
- Critical Infrastructure (airports, hospitals, utility plants)
- Business (retail, hospitality)

Customer Goals

- · Improve public & infrastructure safety, reduce crime
- · Gain common view of incidents across agencies
- Encourage collaboration between citizens and agencies

Use cases

- Object & intrusion detection
- Perimeter protection
- Face recognition

CKC Waste - Use Cases



Customers

- Urban Service Providers
- The Department of Waste Management
- City Council

Customer Goals

- Drive operational efficiencies by optimizing collection routes
- Improved efficiency in tracking generation and disposal of waste
- Track and meet SLAs as per contract

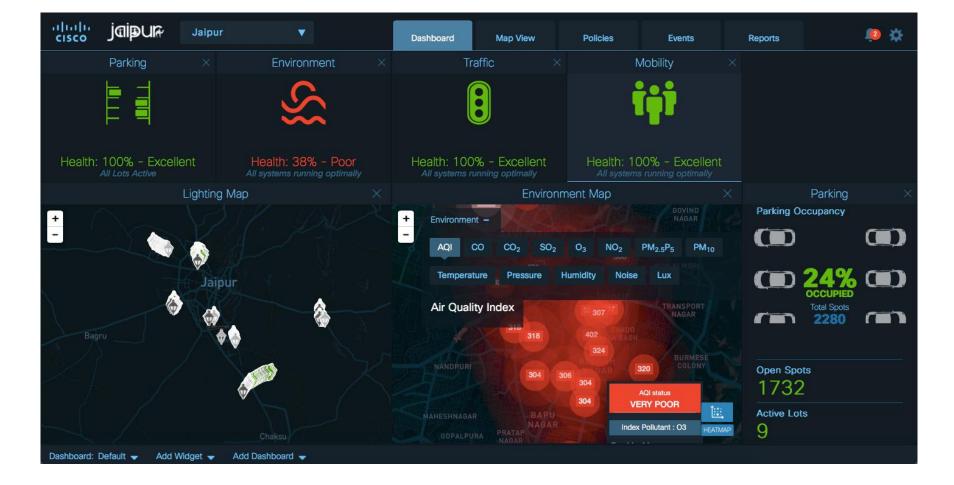
Use Cases

- Waste Bin Level Detection
- Waste Bin Temperature (inside)
- Waste Bin sensor battery level

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Securing your data





Smart City Deployments

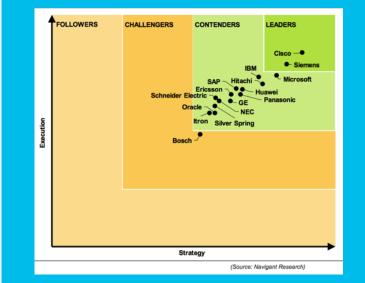


Cisco Kinetic for Cities Market Leadership



Success around the world... with more each day!

Cisco Kinetic for Cities Ranks #1 among Smart Cities Suppliers



Athens Smart Parking



A COLUMN TOTAL

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Results – Parking

(evidence based decision making is added value for the customer)

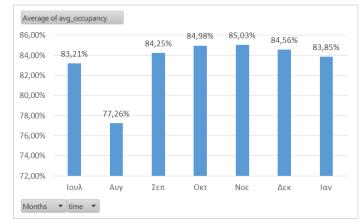
- 17.074 sessions (Jul '17 Feb '18)
- 83.3% avg occupancy (Approx. 90% 8:00am-8:00pm)
- 4.3h avg duration
- o 1.190 parking violations
- (at Othonos, only 1 sensor)

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Parking Sessions per month



Occupancy per month



Barriers LPR Cameras City Operation Center Citizen Portal Smart City Platform

Larissa Pedestrian Control System

Results - Lighting

(evidence based decision making is added value for the business and customer)

Conventional Lighting

Nr of lights: 4.000

Installed Power (kW): 1.100

Consumption (Yearly): 4.015 MWh

Spending (Yearly): € 602.250

CO₂ (tones / KWh): 3.970,84

LED Lighting

Nr of lights: 4.000

Installed Power (kW): 344

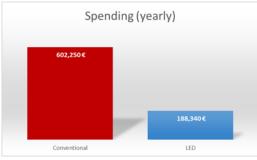
Consumption (Yearly): 1.255 MWh (Approx. -70%)

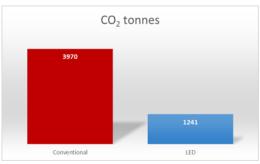
Spending (Yearly): € 188.340

CO₂ (tones / KWh): 1.241,79

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Cisco Kinetic for Cities partner ecosystem

150+ partners

3M Aclima Acuity Airdata Airly Airosense Altiuz Agamesh Aurida Bajaj Intelli **BH** Technologies **Big Belly** Bosch Breezometer BruitParif

CivicSmart Clarity Cleverciti CommuniThinas Cubic Cybertech/Geoshield (NB)* Davra Networks (NB)* Drayson Elevate Digital (NB)* elichens Enevo Eparkomat **FSRI** Cisco Kinetic for Cities ESRI (NB)* Everimpact

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Cisco Meraki CMX Flashnet (NB)* Cisco VSOM v12 Froa Havells Ice-dateway Imagus Inrix iOmniscient iSAP IT FF Kiunsys

Graphmasters (NB)* Infinium (lighting) Infinium (transport) Infinium (waste) Inrix Phase II JC Decaux (NB)* Kiwi v10 Security/Traffic

LED Roadways (NB)* Libelium (Intrinsic) M2M Telemetria Map Unity* MapmvIndia/MMI (NB)* Metro Infrasvs Mindteck Moba Mobili Mobilisis Mobilisis (NB)* Mobiquest N3N (NB)* Namoo Nexpa Nipun (transport) Nipun Net Services Pvt. Ltd Oizom

One Plus / Smart Bin PAQS (AirData) Paradox Paradox (Lighting) / Minebea Paradox (parking) Park Assist Parkam Parkeon Parkquery Persistent Systems Philips Placemeter PParkE (NB)* PTV (NB)* Sadeem SAP (NB)* Samtech Sayme

Sensity Lighting Sensity Undemarcated Sensity Demarcated Sensity Traffic ShotSpotter Sky Alert Smart Media Smart Parking Snaptrend SparkBit TCS* Telematics Wireless/STE Trinity **Tviliaht* Tvilight (traffic) Tvilight (lighting)** Urban Engines (NB)*

Sensitv*

Urbiotica Urbiotica Noise V5 Victor Stanley Videonetics Traffic Welink Wellness WorldSensing Parking WorldSensing Traffic* WorldSensing Traffic /Bit Carrier

Partners in green certified through SPP

Cisco CMX v10

Cimcon

Dashboard (NB)*

