

Mall services

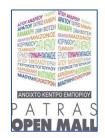


- Parking-Bus
- Environment
- Cleanliness
- Lighting
- Information
- WiFi

Transform an Open Mall to Smart













Inform visitors where to park – Smart Parking

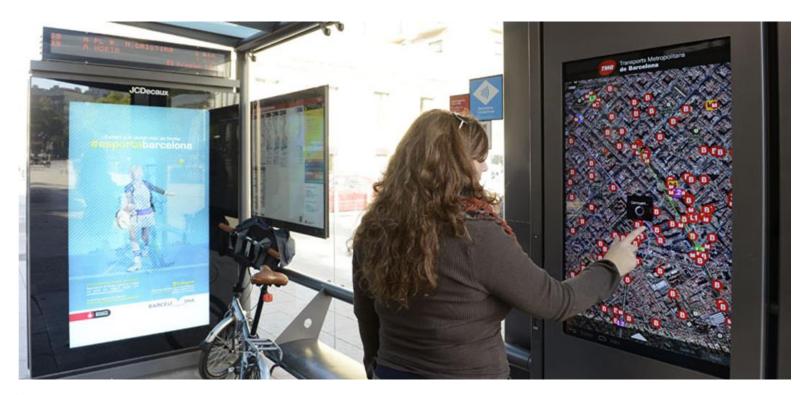








Smart Traffic & Transportation



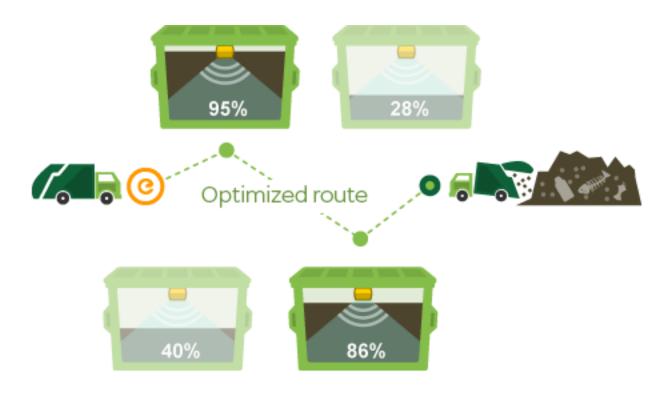


Offer Light Quality with Smart Lighting





Cleanliness with Smart Waste Management





Information points – Remote agents







Multichannel approach - Enabling additional opportunities for citizen engagement

To Engage, Inform, Protect and Revitalize

Emergency Notifications



Smart Screens Localized and Personalized



Empowered Small Businesses



Real-time, Location-Aware Urban Apps



INTERACTIVE PLATFORM:

Integrates information from open government programs, local businesses, and citizens

Monitor Environmental conditions

Measure NO, NO2, SO2, O3, PM 1, PM 10, PM 25, C, Rh, Db

Sample Air Every 2 Minutes

Easy Installation using Existing Power Sources (5w)

95% accuracy against Air Quality Monitoring Stations







City WiFi

More on your bottom line

It's been proven time and time again, people will spend more time and more money in a venue that offers reliable, free WiFi.

78%

preferred venues that offered free guest WiFi

77%

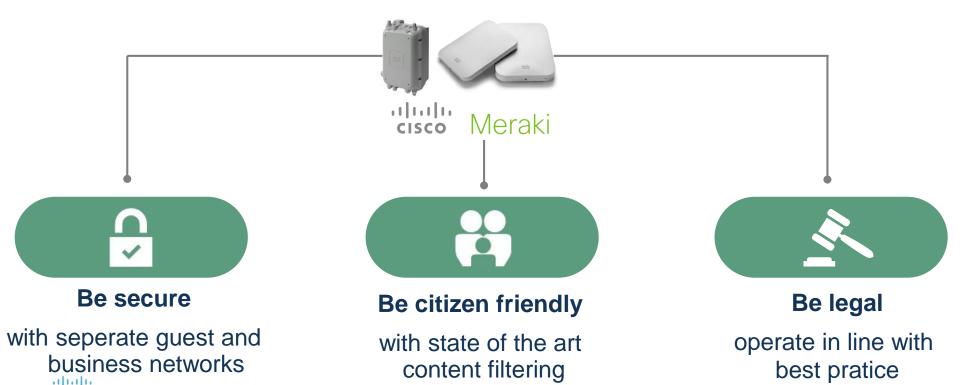
would stay longer in a location that provided WiFi

63%

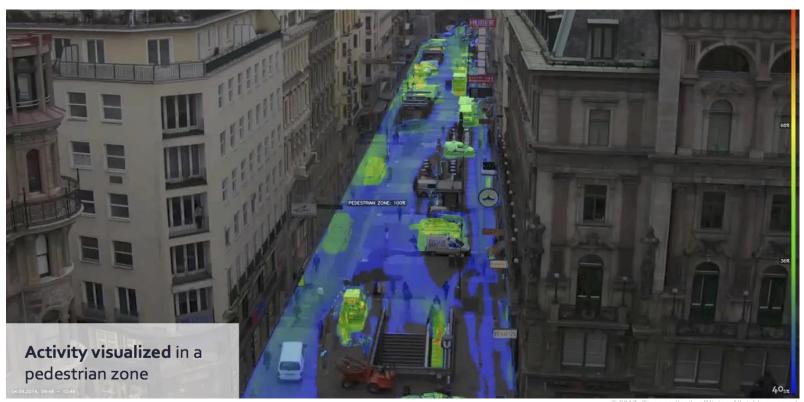
said they are more likely to spend additional money there



Cisco WiFi solutions



Data analytics - Visitor's profile and behavior



User login process

Customized splash screen

- Information about the open mall
- Advertising and promotions
- Local information
- Company/State/Local government/etc Imagery

Login using Social Media account or Other ways (email, registration etc)









OCEAN



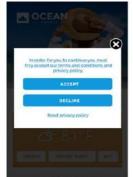


OCEAN

Forgot your password?

Pressword













Collect data

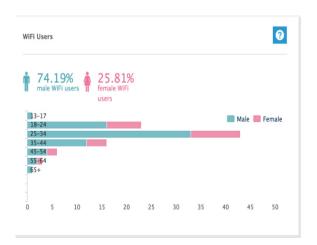
- From social profile
- Statistics
- Location data
- Device data



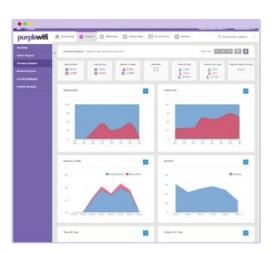


Analyze data

Profile your customers



Visit frequency & behavior



Actionable insights





Local companies activities based on City Data

- Visit Frequency & Behavior
- Buying Behavior
- Social Media Actions
- Surveys
- Reaction on marketing campaigns
- Newsletter
- Loyalty Program





Social Media Data analysis











Safety Security

Urban Mobility

Citizen Enagagement

SAMPLE ANALYTICAL SCENARIOS



Crime rate

Find out the correlation of crime rate in an ally with the lighting condition at the time of crime.



Environment

Understand how atmospheric conditions like humidity, light etc. affect consumption of a resource.

Energy

Measure and monitor the consumption of energy in buildings to better manage the consumption.



Parking

Determine wait time to get a parking spot along with the peak and non-peak hours for overall parking lot.



City Data sources and Applications

MOBILE APPS





Management



Management



Parking Management

APPLICATIONS AND URBAN SERVICES



Lighting

Management



Management

Environment



Security





Management

Smart+Connected Digital Platform

Wireless WAN (WiFi, 3G/4G/5G/LoRaWAN

Public/Private WAN

Internet

Smart+Connected Wi-Fi and Multi Sensor Network

SOURCES





VEHICLES

BUILDINGS



























Safety and Security

Traffic

Residential Industrial

Commercial

Parking

Water

Street Lighting

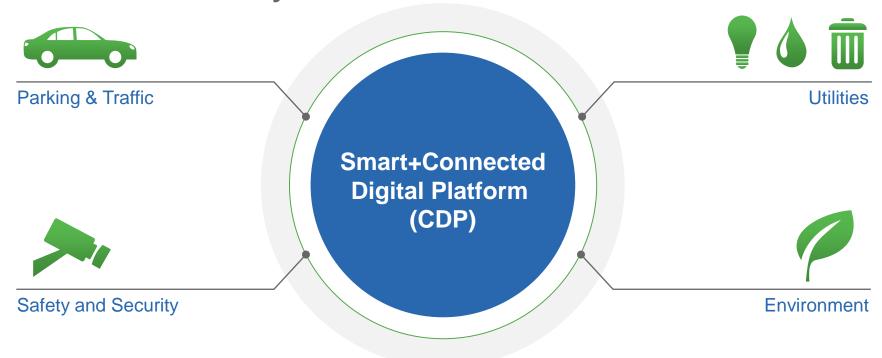
Environment

STREET

People

Street Furniture

Platform for City Data



- Collects and integrates sensor data from multiple sensors and sensor types
- Normalizes the aggregated data
- Exposes APIs through which independent software vendors (ISVs) and city applications



Why Trikala?

- ➤ A long "smart" story
 - 2004: first Greek smart city
 - > 15 smart projects (fiber-optic network, metro-wifi, intelligent transportation etc.)
 - > 10 EU projects (CITY Mobil, Tele-care etc.)
- Emphasis on smart government (since 2015)
 - Smart citizen service center 20.000 (callcenter, web site, App)
 - Internal information systems' deployment (protocol, citizen applications' flow, city council's board management etc.)
- > Internal re-organization
 - smart city unit, quality management, strategic management, open data policy definition etc.



Pilot at City of Trikala









Smart Open Mall services

THE THIRD IN

- Smart Parking
 - 25 seats with sensors
 - 20 seats with optical sensor
 - Seats for people with disabilities
 - Mobile app, Payment and enforcement
- Smart Lighting
 - 24 LED with motion detector
- Smart Mobility
 - Vehicles counting
 - Direction control
- Smart Environment
 - Measure ambient quality indicators





Smart Open Mall services

THE THIRD IN

- Metro-WiFi
 - Social Media login
 - Open platform
- Open Mall visitors data analysis
 - In partnership with the local commercial union
- > Health services
- Triggered marketing

Future:

- Smart Waste Management
- Information points
- Smart Bus stations
- Smart bike sharing
- Online consultation etc.



Advertisement, Coupons & Rewards



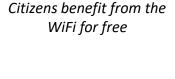




- Local businesses run advertising contracts with the municipality
- Based on proximity, local businesses can reach customers based on the movement patters
- Custom splash pages, created by the local business
- Coupons or different types of rewards are communicated directly to shoppers' phones without the need for a mobile application.

- Increased brand awareness for the companies
- Retailers and other venue owners achieve increased loyalty and basket size since they communicate directly with customers.







Smart+Connected Communities

Embrace digital innovation to create **new revenue** and **better serve** your citizens.

CISCO TOMORROW starts here.

