



ANTIK SmartCity

ANTIK Technology
Carskeho 10
040 01 Kosice

+421 55 30 / 12345
info@antiktech.com
www.antiktech.com

Future-Proof solutions
for cities and government



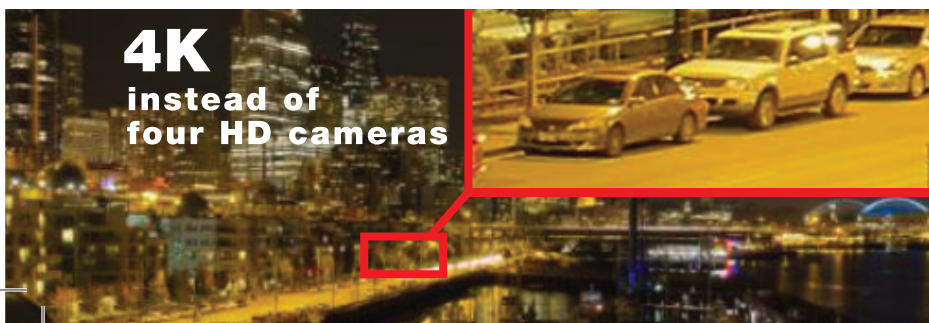
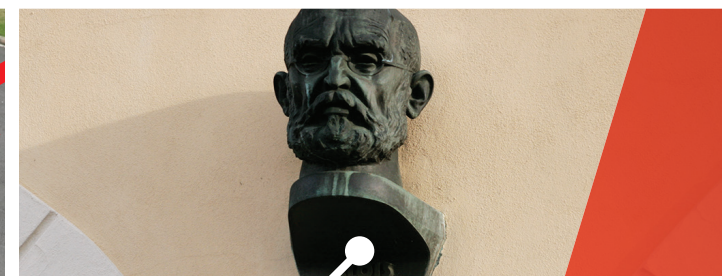
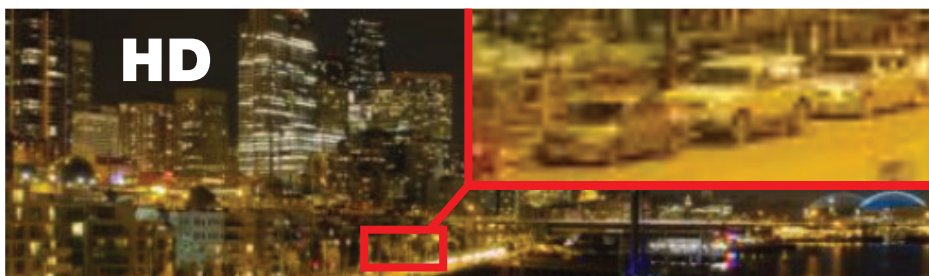
Future-Proof solutions **for cities and government**



SAFE CITY

thanks to technological innovation
in surveillance camera systems

DETECTION OF TRAFFIC VIOLATION
FACE AND CAR RECOGNITION AND ANALYTICS
CROWD RECOGNITION
MAKE YOUR CITY SAFER



DETECTION OF INCORRECT PARKING

IT CAN DETECT POSITION OF VEHICLE IN THE ZONE AND NOTIFY CONTROL CENTRE IN CASE OF INCORRECT PARKING

VEHICLE TYPE DETECTION

BRAND, TYPE, COLOUR, LICENSE PLATE



SMART CAMERAS

ANTIK
technology

FUTURE SOLUTIONS FOR EASIER LIFE

TRAFFIC MANAGEMENT/PARKING SYSTEM

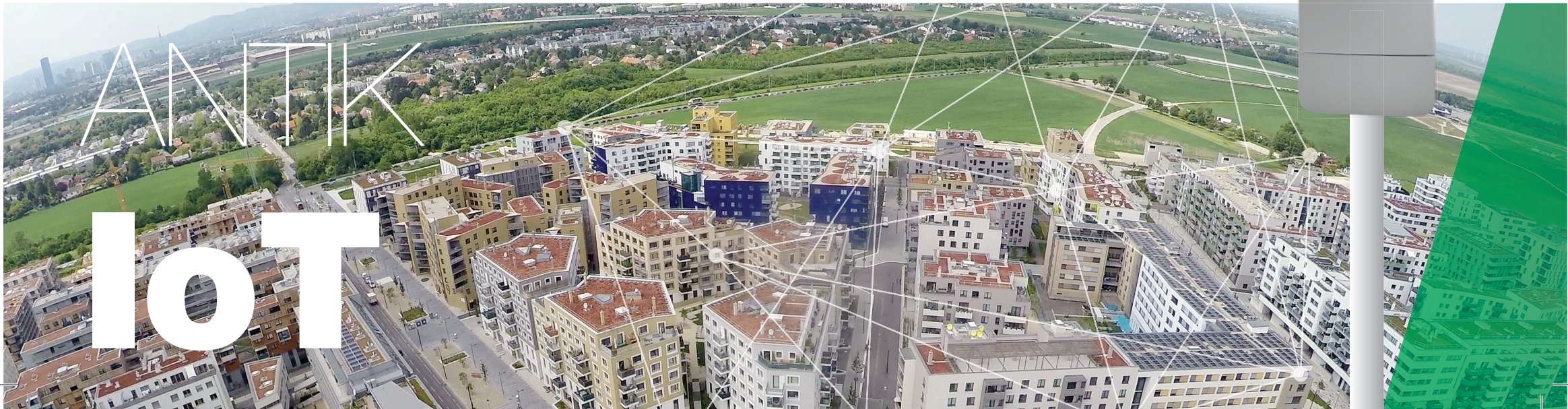
AIR AND WATER QUALITY CONTROL

WATER LEVEL MONITORING (EARLY WARNING OF FLOODS)

CONTAINER FILLING CONTROL (EFFICIENT WASTE MANAGEMENT)

SOS PILLAR WITH VIDEO CALL

LoRa
GATEWAY



ANTIK “IoT” PLATFORM

Robust gateways for nationwide IoT platform deployment best price/value solution for telemetry and remote control



SMART CITY

EASIER LIFE

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EARLY WARNING OF INCREASED WATER FLOW AND ITS QUALITY

PRESSURE SENSOR DETECTION FROM THE RIVER BOTTOM OR ULTRASONIC FROM BRIDGE MASS LOAD FOR LOW OPERATING AND ENTRY COSTS



▶ WATER QUALITY MEASUREMENT:
PH, SOLUBLE OXYGEN, WATER CLOUDINESS, CHEMICALS, TEMPERATURE



AIR QUALITY CONTROL



BUILD DENSE AIR QUALITY CONTROL SENSORS DUE TO
LOW ROLL OUT COSTS
MORE ACCURATE AIR QUALITY CONTROL
ON MICROREGIONAL LEVEL

MEASURING:

CO₂, CO, NO, O₃, PM_{2.5}, PM₁₀, TEMPERATURE, HUMIDITY,
ATMOSPHERIC PRESSURE

SMART CITY
EASIER LIFE

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SMART PARKING SYSTEM

More vehicles for one parking lot
More place for greenery in the city Faster ROI



WATCH THE
VIDEO



SMART PARKING

INCORRECT PARKING DETECTION

LONG PARKING DETECTION (UNUSABLE VEHICLE BLOCKS PARKING)
PARKING CAR OCCUPANCY
INCORRECT PARKING



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EASIER LIFE

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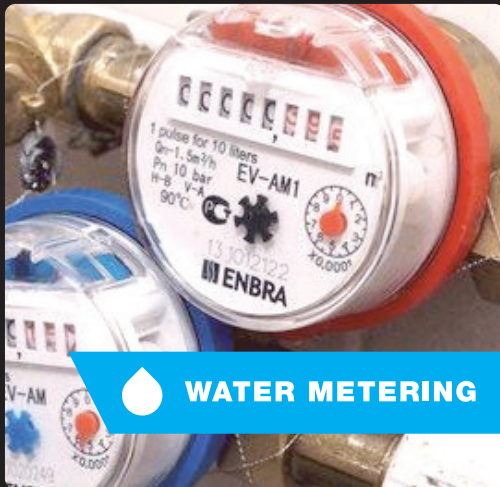
UNDERGROUND CONTAINER CONTAINER FILLING DETECTION



WASTE COST DECREASE BY EFFICIENT GARBAGE COLLECTION

REMOTE MEASUREMENT lasts up to 10 years without the need of power supply for every day allowance OF ENERGY CONSUMPTION

ANALYSIS OF MEASURED DATA, CONSUMPTION OPTIMISATION,
EARLY WARNING IN CASE OF LEACH



SMART CITY
EASIER LIFE

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SMART OSVETLENIE

LoRaWan Gateway / WiFi AP

Air quality sensor

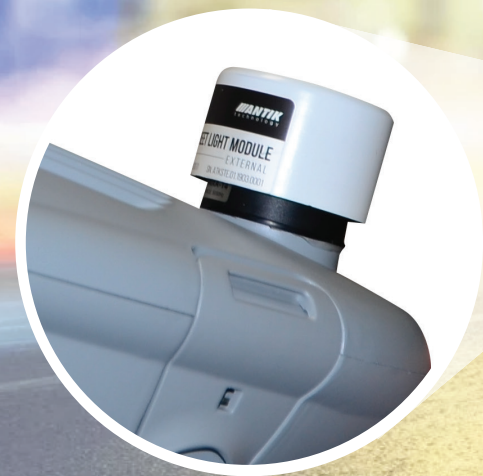
Public load speaker

LED lamp module
with LoRaWAN
management 0-10V
or DALI protocol

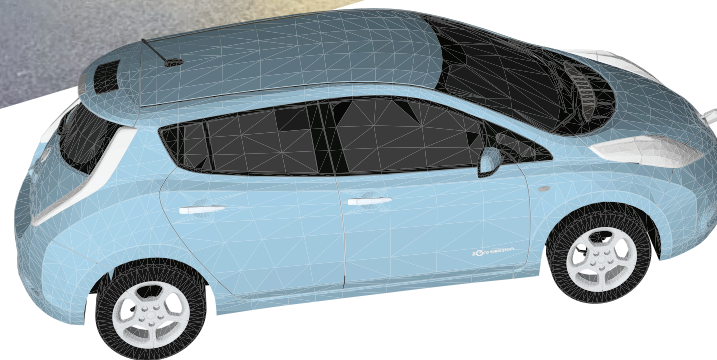
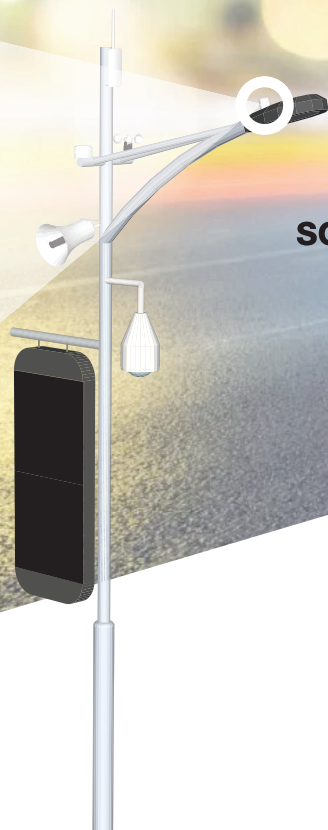
IP camera system

Advertising and communication
LED panel

SOS button for connecting with operator
Electric car charger



LoRaWan/NB-IoT
lamp control module
DALI 0-10V





**7-22 kW
EV charging station**



**DS panel with
content
editable
remotely**



**SIP/IP network
public load speaker,
15/30W**



**60/150W
3000K LED lamp with
LoRaWAN management
of intensity and diagnostic**



**IP exterior
camera remotely
controlled**



**Air quality
sensor**



**SOS button
for connecting
with operator**



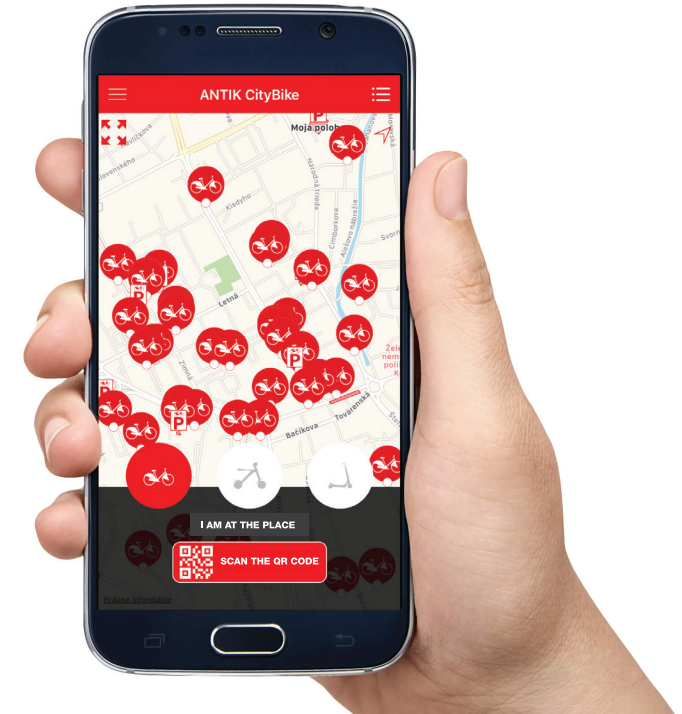
LoRa
**LoRaWAN
gateway/WiFi
Access Point (AP)**

Modular solution

From simple lamp up to smart mast **of Smart City concept**

ANTIK BIKE SHARING PLATFORM

BIKES, E-BIKES, SCOOTERS
SATIATION-LESS SYSTEM
GPS REMOTE CONTROL
BILLING AND PAYMENT
ROBUST ONLINE MANAGEMENT



Unique design distinguishes the bike immediately





ANTIK BIKE

SHARING PLATFORM

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CHARGING STATIONS FOR E-CARS AND MOTORBIKES

- ✓ FREQUENT DISTRIBUTION
- ✓ CLOSE TO POPULATION ON PARKING
- ✓ EARLY PREPARATION FOR FUTURE



END-2-END
PLATFORM



ATK.CS.EV1.03.00



ATK.CS.EV1.22.07
ATK.CS.EV2.07.07



ATK.CS.EV2.07.55
ATK.CS.EV2.22.55

Warning beacon
as a special
accessory
for the police

**Side boxes
for gear**



Megaphone

Adaptive LED light

High brightness, indicator for daily
lighting for even better battery reduction

Hydraulic suspension

for maximum comfort
and safety

**With 230V
electric socket**



MUNICIPAL E-MOBILITY

E-MOTO DELIVERY & SMART DELIVERY BOX

CONVENIENT PICKING UP
OF DELIVERY FROM ONLINE SHOPS
AND SO ON.

COMPLEX SOLUTION ALONG THE FLEET OF MOTORBIKES

- ✓ AVAILABLE AT STREET LEVEL
- ✓ SECURE SHIPMENT STORAGE
- ✓ DELIVERY NOTIFICATION
EASY TO USE

RENTING E-MOTORBIKES AS WELL

YOU DON'T HAVE TO OWN DELIVERY MOTORBIKES
YOU CAN RENT THEM FOR AFFORDABLE MONTHLY
RATE FOR EXAMPLE ONLY DURING THE PICK
OPERATION OR SEASON

WE TAKE CARE ABOUT THE MOBILITY GUARANTEE,
GET THE INFORMATION ABOUT THE DETAILS
ON E-MAIL: INFO@ANTIKSUPERSOCO.SK





**DELIVERY
AVAILABLE
AT STREET
LEVEL**

SMART PARCEL

DELIVERY

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GOVERNMENT TO CITIZEN E-COMMUNICATION AT HOME AND OUTDOORS


QUICK DELIVERY MESSAGE

CITIZENS INTERACTION VIA E-POLLS

AT HOME ON THE TV THROUGH SET-TOP BOX

ON THE STREET THROUGH DIGITAL SIGNAGE /WITH HIGH QUALITY DISPLAY

CENTRALISED MESSAGE MANAGEMENT

 **Water Outage**
A planned water outage will occur from Monday, October 1, 2018 to Friday, October 5, 2018. You will be notified about the changes and water restoration.

Message [READ MORE](#) [READ LATER](#) [CLOSE](#)





OWN LOCAL TV CHANNEL YOUR CONTENT – OUR SOLUTIONS

GET CLOSER TO CITIZEN UP TO LIVING ROOM
THROUGH MUNICIPAL TV BROADCASTING.

TV **i**

**AT HOME ON THE TV
ON THE STREET
THROUGH
DIGITAL
SIGNAGE**

G2C E-COMMUNICATION

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PARKING SENSORS

Antik LoRaWan parking sensor, the solution for Smart Cities that allows citizens to detect available parking spots. Antik LoRaWan parking sensor monitors parking lot uses high sensitivity geomagnetic sensor, which measures all changes of magnetic field above the sensor. The device is manufactured in two variants:
1. surface mount variant – easy to deploy, no need to dig holes to the road surface
2. buried variant – need hole in road surface, takes little more time to deploy, but final solution is more robust and resistant against winter time road maintenance.

ABNORMAL MOVEMENT SENSORS

Antik LoRaWan abnormal movement sensor is solution to detect unwanted movement of fixed objects. In case of object is moving, sensor alerts you. Sensor uses very sensitive 3 axis accelerometer sensor to detect unwanted movement.



WATER LEVEL SENSOR

Antik LoRaWan Water level sensor monitors level of water in rivers, lakes or other water reservoirs. Sensor sends alert in case water reaches maximum level.

TRASH LEVEL DETECTOR

One of the key role for “Smart City” is to find the efficient way how to get rid of the trash to maintain clean city. Antik LoRaWan Trash Can monitor, uses ultrasonic sensors to detect level of trash in waste bin. Sensor can be used for waste management company to plan optimal path for trash collection cars.



WATER METERING

Antik LoRaWan Water Metering device is designed to use with pulse output water meters. Device counts pulses from two independent water meters. Water meters status is periodically transmitted.

TEMPERATURE AND HUMIDITY SENSOR

Antik LoRaWan Temperature and Humidity sensor is designed for outdoor and indoor use. It uses very precise digital sensor with 0.1°C and 0,5% RH resolution. Industrial enclosure provides IP54 coverage rating. Internal lithium battery guarantees sensor life time up to 10 years.





ELECTRICITY METERING

Antik LoRaWan Energy Metering device is designed to sense information about energy consumption from any type of energy meter used in house or flats. Energy meter status is periodically transmitted.



GAS METERING

Antik LoRaWan Gas Metering device is designed to count pulses from pulse output of gas meter. Gas meter status is periodically transmitted.



STREET LIGHTS CONTROL

To manage street lighting is an important part of modern smart cities. Antik LoRaWan Street light control unit brings a way how to control lights using LoRaWan protocol. Module has IP68 coverage and standard ANSI C136.41 connector. Device uses DALI protocol to control LED lamp driver. There is also an embedded energy meter to measure actual and long-time consumption of the whole lamp. GPS module provides exact time information for scheduled operations. Ambient light sensor provides information for autonomous operation depending on actual light conditions.

INDUSTRY SENSORS PLATFORM

Antik LoRaWan Industry sensors device is platform to collect data from standard industry sensors powered from 12 to 24V equipped with RS485 bus and MODBUS communication protocol. Device is designed to be powered from primary lithium batteries or with solar panel rechargeable batteries. Device is able to read-out data form multiple sensors and transmit collected data in configurable interval. Typical types of sensors: Temperature, Pressure, Water quality (PH sensor, Dissolved Oxygene sensor), Ultrasonic water level sensors etc



Reasonable solution
for cities and government

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