

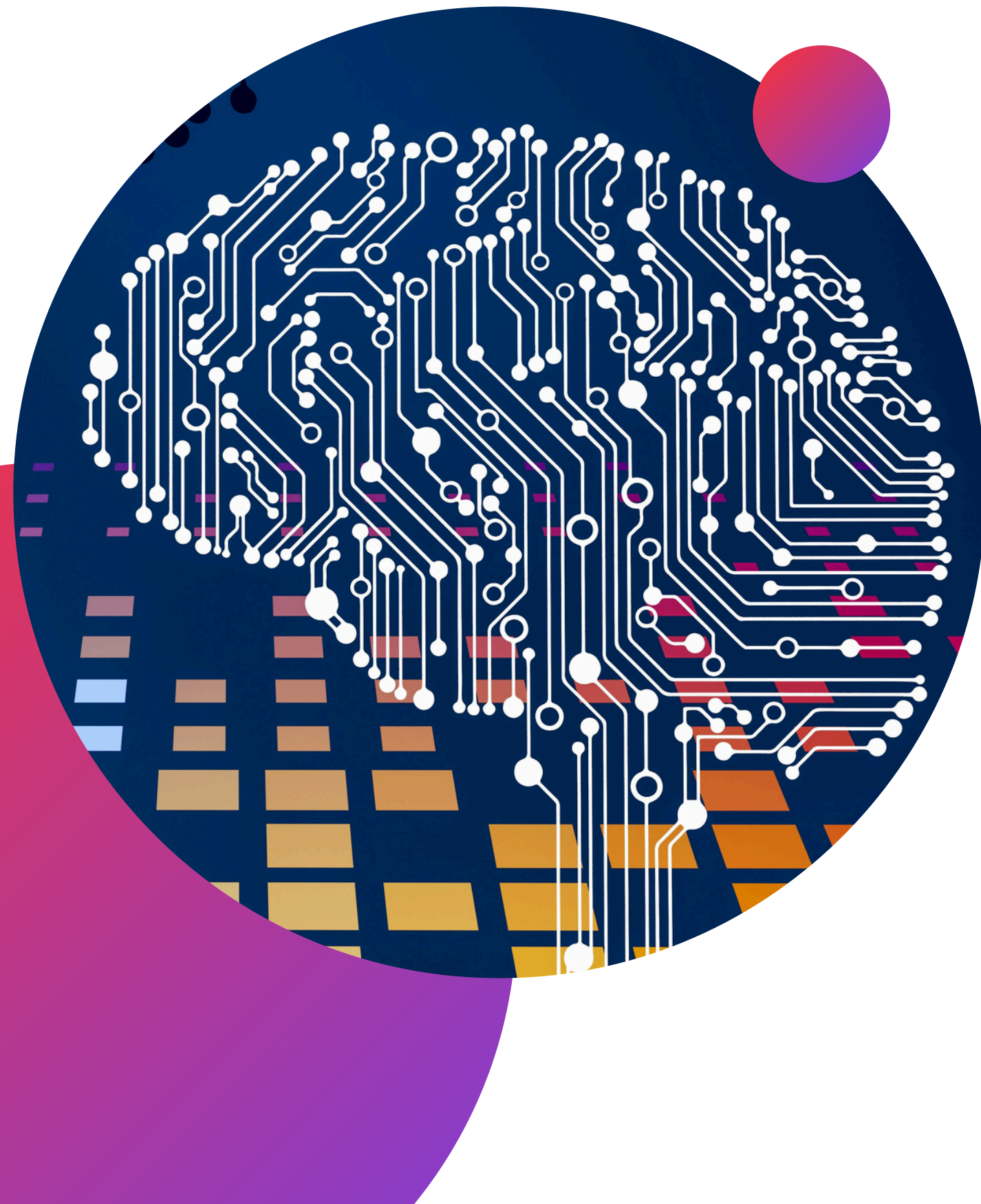


Metrici

Smart City Build



METRICI



Welcome To The Future

Metrici Artificial Intelligence is used as a primary tool in analyzing, detecting and better understanding the environment. Metrici brings to the table the tools to solve the problems of traffic, security and city management.

Specialized and dedicated Deep Neuronal Networks do the best to analyze video streams and distinguish different kind of objects and take actions independently or not based on acquired data, analysis and statistics.



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The Tools

Be it vehicles, people or other objects, Metrici can tell you how many, how long and where from and to, how much time they spent and other useful data and statistics to understand the flow around you and to predict the future

01

License Plate Recognition (LPR) – free flow or trigger detection. **8 classes type**

03

Parking Place Detector – 1 **camera** to monitor **dozens of parking spaces** and know their status: free or busy

05

Line Counter – How many objects transited a virtual gate in a time interval,

07

Weighing Station LPR.
Stationary and on the move weighing station integration. Weight registration and LPR reading

02

Parking Module for LPR – time inside, different tariffs according to the zone, time of the day, day of the week etc. Access lists and timetables

04

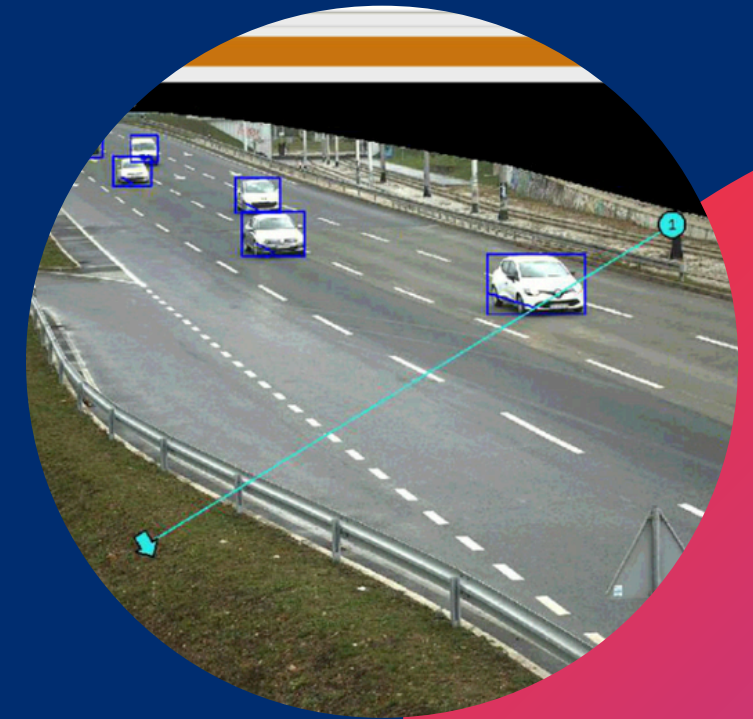
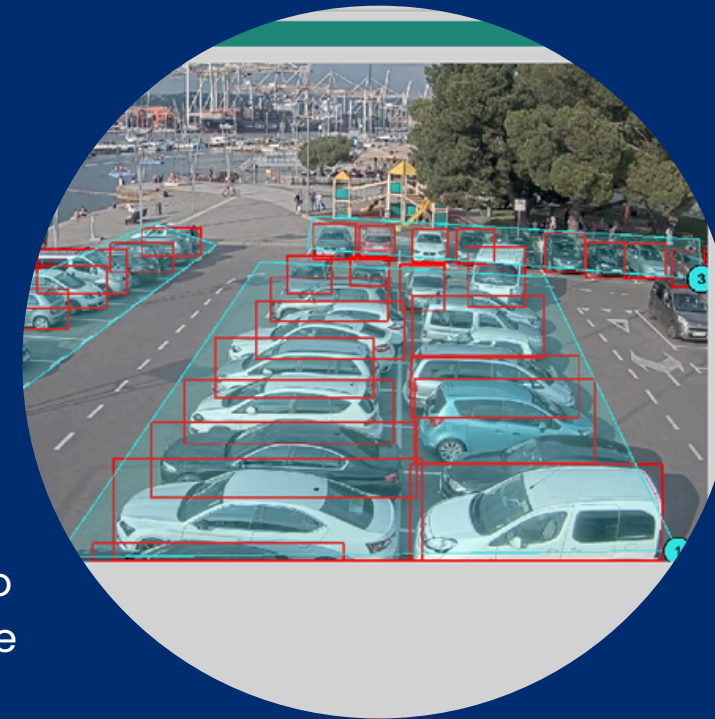
Area Counter – **count and record** any event change in a perimeter. **What type of objects** (people, vehicles, planes, boxes, boats etc

06

Toll Station LPR – tolling, ferry crossing. Different tariffs, expiration dates, cash registration integration

08

Dedicated Projects – any possible combination of the above or others. Also custom development AI based





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Technology

Communicated devices that exchange data

API

Cloud computing or local

Dashboards

Machine Learning

Machine to machine communication

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Vision And Challenges

Vision

- Effective decision making based on data
- Safer communities
- Improved transportation
- Improved environment
- Optimization of traffic and public service
- Automatic and efficient urban management

Challenges

- Public safety
- Urban mobility
- People participation
- Solid and secure interconnected systems



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Smart Transportation

Managing timing of traffic lights and roadway traffic

01

Intelligent traffic management

Tools

- Interconnected License plate recognition -what is transit time
- Line Counter- how many cars/ people crossing a virtual gate
- Area Counter - how many are in a area

02

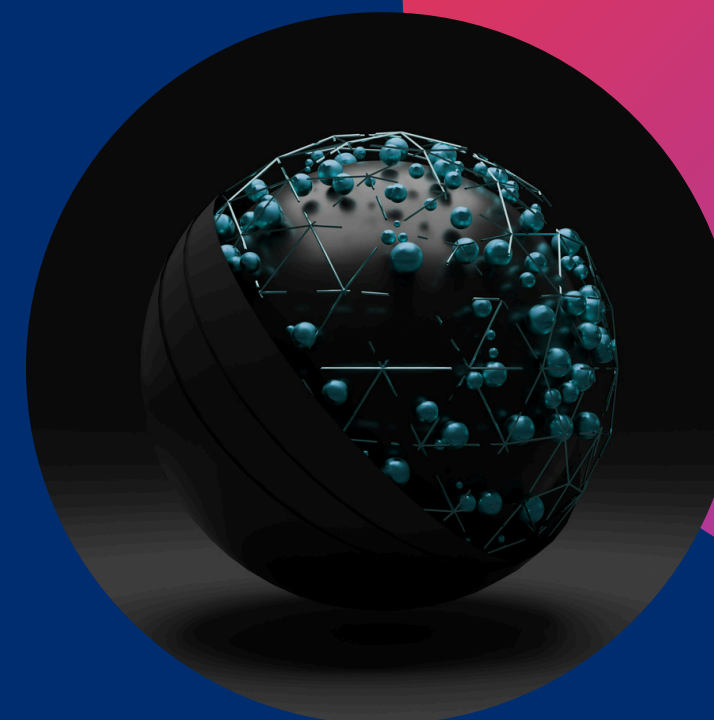
Smart Parking

- Parking with LPR Metrici module
- Parking Place Detector
- Parking Enforcement
- Fleet Management

02

AI to help

- Dedicated AI training for specific projects
- Quick data, quick decisions
- Gather information, evaluate performance, check and provide accurate results





Company's Instruments

01

License Plate recognition

- Traffic – how many cars
- Direction
- Enforcement
- Alerts

02

Parking Management with LPR

- Set tariffs
- Timetables
- Preserve Spaces
- Manage tenants
- SMS access and pay

03

Line Counter

- Traffic counter
- People counter

04

Area Counter

- Urban video surveillance
- Public transport
- Public and office buildings
- Events
- Retail and commerce

05

Parking Place Detector

- 1 camera – dozens of parking spots
- Busy/available for each spot
- Alerts
- Manage sectors

06

Strategic Planner

- Integrate mobile apps, traffic lights, LED signs
- Automate processes
- See statistics and reports



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Line Counter

01

How and Where

- **HOW MANY** vehicles? What type?
- Pedestrians **NUMBER**. Direction? Flow rate.
- **RETAIL** Keeps track of customers. Heat maps
- **DOOR/GATE COUNTER** Set as many virtual doors
- **SHOPPING CENTERS**–
- **STREET** –who, what kind, how many
- **SIDEWALK** – real time and history
- **ROAD CROSSING** –how long, how many, how fast
- **HIGHWAY** Real time calculation with the load
- **TRANSPORTATION** Hub or distribution centers
- **ENTERTAINMENT CENTERS** People and traffic count
- **STADIUMS** How many participate in events
- **AIRPORTS** Traffic flow for travelers and employees
- **LOCAL AUTHORITIES and PUBLIC SECTOR**

02

Street

- **EXACT** Know how many cars use a particular street/time intervals
- **SEE** How many pedestrians
- **DETERMINE** the load by cars or pedestrians, instant, average and top
- **IDENTIFY** How many turn right or left
- **KNOW** How many in each direction or on each line
- **AUTOMATION** Congestion alert
- **HISTORY** Flow rate: cars per minute/hour etc/ for each lane
- **EVOLVE** Make traffic decisions based on figures and facts
- **PLAN** Successful traffic planning thanks to valid traffic data
- **POLICE SURVEY** Turn from incorrect Lane – line counter and LPR
- **ATTENTION** Wrong direction
- **UNDISCIPLINED** Crossing over
- **WARNING** Incorrect Use of Bus Lane – also with or Area Counter

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Area Counter

01

How and Where

- **URBAN VIDEO SURVEILLANCE**
 - **PUBLIC TRANSPORT**
 - **PUBLIC & OFFICE BUILDINGS**
 - **GOVERNMENT BUILDINGS**
 - **EVENTS**
 - **RETAIL & COMMERCE**
-
- **Trespass Detection** of objects entering a virtual space
 - **Vehicle Counting / Queue management**
 - **Waiting Time Management** for queues or traffic stops
 - **Congestion Detection** Detecting vehicle congestion in a virtual area
 - **Illegal Parking** Detecting parking of the vehicle in no parking zone and raising an alarm
 - **Parking management:** free slots available for parking

02

Outputs

- **CITY SURVEILLANCE** Unauthorized crossing. Crowded. Suspicious behaviour. Trespass
- **TRAFFIC** Traffic control. Waiting time. Congestion
- **PARKING** Illegal parking. Available parking
- **BUILDING SURVEILLANCE** Access control. Secure area. Counting
- **BUSINESS & RETAIL INTELLIGENCE** Heat map. Tripwire .Queue
- **ZONE CHECK** One can set a number limit of objects that can fit in an area or to trigger an alarm
- **ALERT** When a certain tripwire is crossed or a number limit is reached
- **REPORTS & STATISTICS** See how your business evolve
- **SCHEDULE** Reports, alarms
- **ANALYSIS** Heat map and motion map
- **VIOLATION** Queue Jumping or queue longer than

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More Scenarios

LPR

- **Wrong Way Detection**– Detecting Vehicle moving in a wrong direction
- Effective **traffic control** in intersections or on the road
- **How many** cars/people on the road
- Detection of **illegal traffic behaviour**
- **Speeding**– Detection of over speeding for a vehicle with MetricI Observer Radar or using two distinct LPR readings
- **Red light runner**

Parking

- Detection of **unauthorized parking**
- Traffic or **parking management**
- **Available** parking spaces detection
- Monitoring **restricted spaces**
- **Illegal Parking** – Detecting vehicles parking in no parking zoneCrowded place
- **Long waiting** at the traffic light/ street or sidewalk
- **Trespass** – Detection of Vehicle (or Person) entering a virtual space



Line & Area

- **Vehicle Counting** / Queue management – Counting Vehicles crossing / in a perimeter
- **Waiting** Time management for queues
- **Counting** – Counting of people, or object after crossing a virtual line or in a perimeter
- **Perimeter Protection** / Intrusion Detection
- Person **hanging** in an area



Line & Area

- **Congestion** Detection – Detecting vehicle congestion in a virtual area
- Vehicle counting: Vehicles **coming IN** and **going OUT** an area
- **Unauthorized** Crossing of Railway/Street Lines
- **Surveillance** of Critical Infrastructure
- Unauthorized **Crowding** / Overcrowding
- **Heat Map & Motion Map** – areas with the greatest frequency and activity

Get



METRICI

Public Safety

Urban Mobility

Competitive, efficient, and connected city

Critical infrastructure monitoring

Video & Data analytics





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Our Strengths

Accurate

Accessible

Easy to understand

Reliable

Scalable

Real-time outputs





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metricí
accurate recognition



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Thank You