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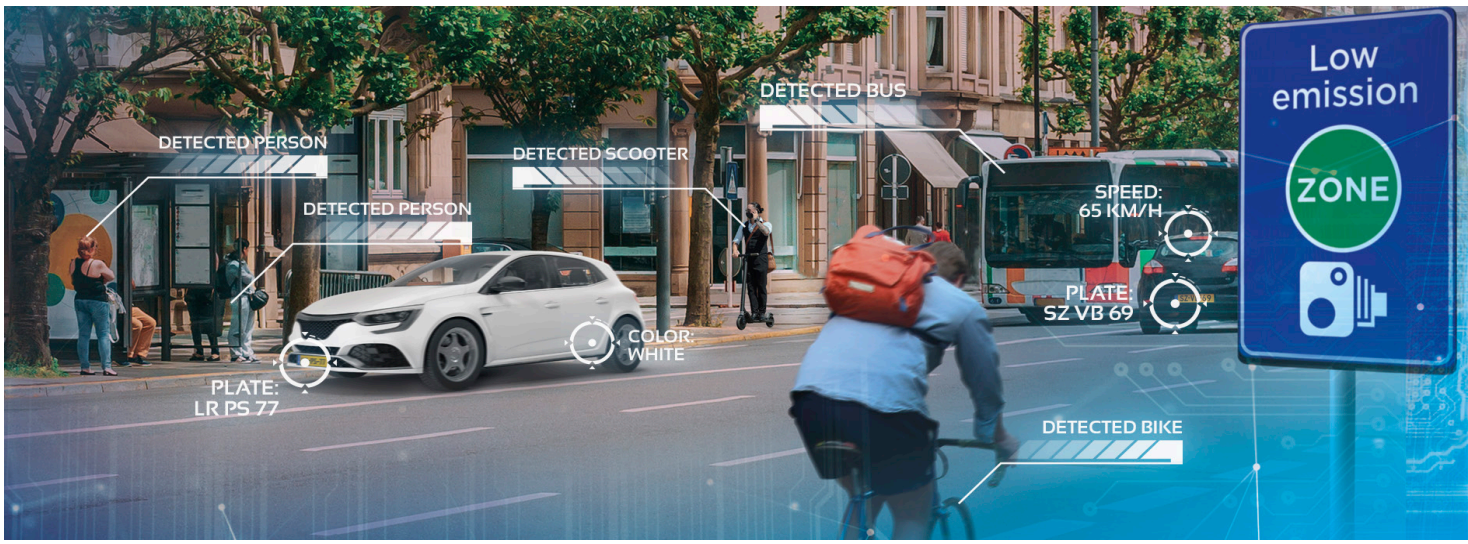
AI FOR SMART CITIES

NEURAL LABS SOLUTIONS FOR CITIES



Solutions for safer and pacified cities

NEURAL LABS offers solutions for **cities** that recognize and analyze, using **Artificial Intelligence,** images captured by **cameras**.

APPLICATIONS OF NEURAL LABS SOLUTIONS FOR CITIES ACCORDING TO THEIR AREA

- Mobility:
  - Statistics and metrics for the mobility department.
- Traffic management:
  - Sanctions for traffic infractions proposals.
- Security:
  - Uninsured vehicles detection.
  - Stolen or searched by the police vehicles detection.
  - Vehicles with no technical inspection detection.
  - Vehicles in terrorist search detection.
  - Vehicles without license plate detection.
  - Forensic investigation.
  - Loitering detection.
  - Cloned/ illegal license plates detection.

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Neural Labs S.L.
Altimira 48, 2ª Planta, 08290
Cerdanyola del Vallès, Barcelona
Spain

+34 93 820 56 94
info@neurallabs.net
www.neurallabs.net

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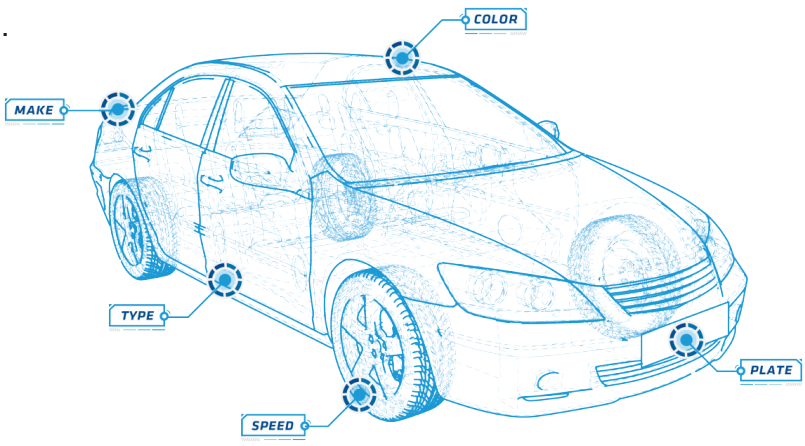
DETECTED AND ANALYZED ACTORS

- Cars.
- Motorcycles.
- Vans.
- Trucks.
- Buses.
- People.
- Scooter.
- Bicycles.
- Sea containers.
- Smoke detection
- Animals

DETECTED VEHICLES ATTRIBUTES

- License plate.
- Vehicle type (Motorcycle, passenger car, van, truck, bus, etc.).
- Make.
- Color.
- Country.
- Speed.
- Lane.
- Traffic direction.



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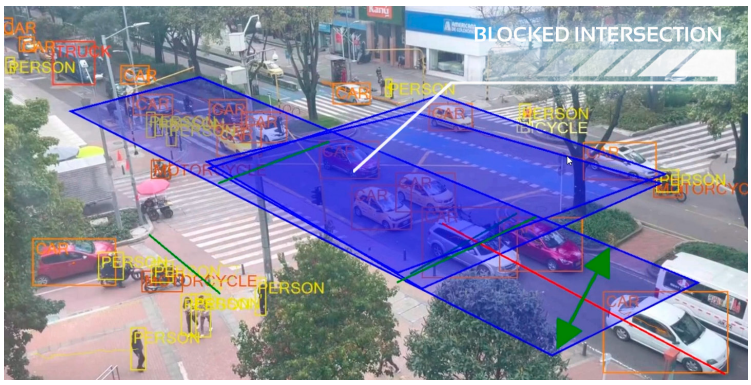
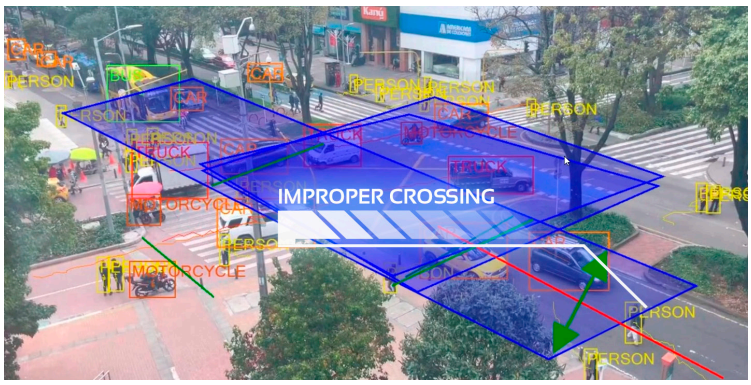
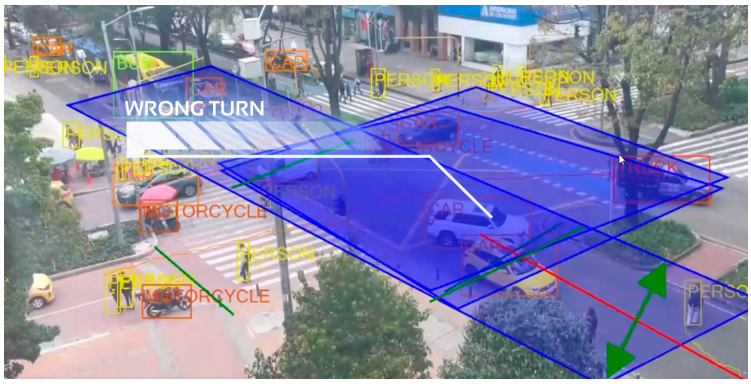
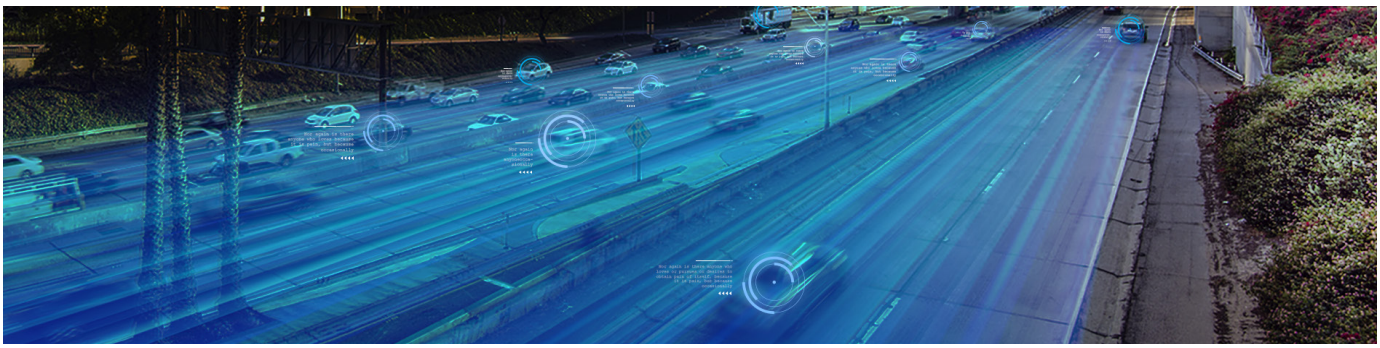
TRAFFIC INFRACTIONS DETECTED

- Vehicles running a red light.
- Vehicles that do not stop at the STOP sign.
- Wrong turn.
- Illegal Stop.
- Vehicles at a restricted area where they are not allowed (Low Emission Zones, pedestrian zones, city center…)
- Instant vehicle speed.
- Average vehicle speed (Section control).
- Wrong way.
- Blocked intersection.
- Lane changes.
- Dangerous overtaking.
- Opposing lane invasion.
- Pedestrians improper crossing.
- Ignoring Zebra crossings.
- Scooters at sidewalk.
- Bicycles outside their lane.
- More traffic infractions detection can be programmed.









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DETECTED EVENTS (AUTOMATIC INCIDENT DETECTION)

- Pedestrians on the road.
- Animals on the road.
- Level of traffic (moving, heavy or stopped).
- Abnormally fast or slow vehicles
- Queue lengths (at tolls, traffic lights, etc.).
- Fallen or abandoned objects on the road.
- Area occupation (taxi stands, etc.).
- Before mentioned traffic infractions.
- More traffic events detection can be programmed.

COUNTING OPTIONS FOR MOBILITY DATA GATHERING

NEURAL LABS solutions count actors on the road following:

- Actor classification (person, motorcycle, passenger car, etc.).
- Camera or area.
- Timeframe (days, weeks, months, hours, or minutes).
- Concrete actions:
  - Vehicles circulating in each direction.
  - Vehicles turning to one side or the other in concrete spots.

ASK US FOR PERSONALIZED CONSULTING AND DISCOVERING HOW TO USE OUR SOLUTIONS IN YOUR PROJECTS.

LEARN MORE IN:

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