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MANAGING EV CHARGING STATIONS

Charging bay use, availability, safety and response

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Bay Occupancy

Follow a car from arrival to departure

01

Arrive

Detect a car in the charging bay and record its arrival time and total bay occupancy duration.

02

Charge

Record charging start, completion or stop time and total charging time.

03

Idle

Measure time in the bay without charging.

04

Leave

Record departure and count cars using each bay per day.

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Charging Intelligence

Vehicle identification and charging demand

SEE QUEUES AND DWELL

Count cars waiting to charge and record electricity consumption in kWh.

Recognize licence plates, vehicle make and model, and drivers where configured.



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Charging Notifications and Usage

Useful information reaches the user when charging changes

COMPLETE

Tell the car owner when charging has completed or stopped by SMS or email.

BAY TIME

Show occupied time, idle time and total charging time.

DAILY USE

Count cars using each charging bay per day.



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Site Safety and Security

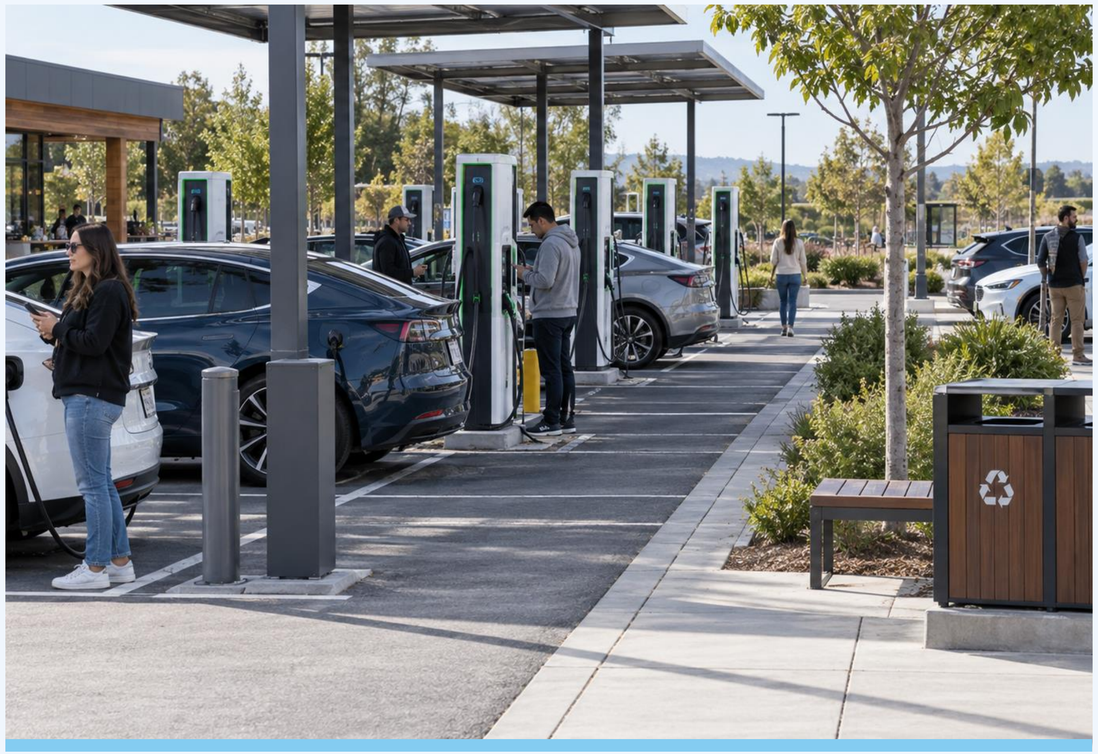
Detect incidents around charging equipment

Safety

- Smoke and fire in the vicinity
- Commotion in the vicinity
- Loitering near the charging station

Site upkeep

- Illegal dumping in the vicinity



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System Integration and Dashboard

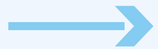
Site management and car owners need different information

ONE SITE. TWO VIEWS.

CHARGING SITE

Bay activity
and charging events

shared event stream



MANAGEMENT

Integrate with any EV system.

View statistical information on an easy-to-use unifying dashboard.

DASHBOARD

CAR OWNER

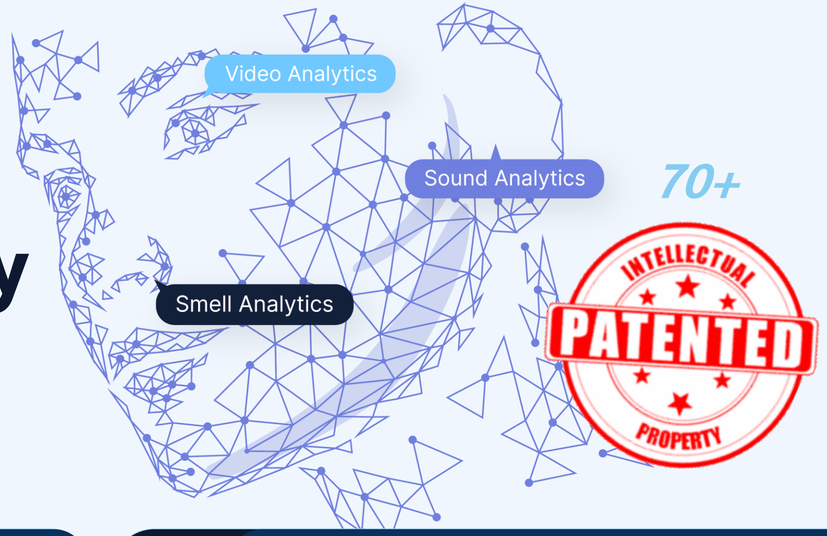
Receive a useful alert when the vehicle is fully charged.

MOBILE ALERT

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Cost Efficiency, Response and Privacy

Advanced Multi-Sensory Analytics – Video, Sound, Smell



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

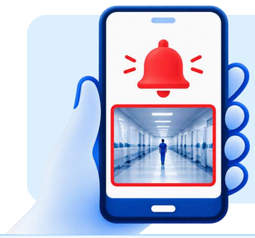
Fewer cameras
Lower-resolution cameras

90% less
Storage and network bandwidth

02 AUTONOMOUS RESPONSE

Detect › **Find** › **Respond**

When there is an event,
the system can find the appropriate responder and tell them where to go and what to do.



They do not require a large control room environment – **a smart phone becomes the control room.**

03 PRIVACY PROTECTION

All systems are privacy protected.

Privacy is never compromised even though the system is aware and can raise alerts for all issues.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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