Smart Parking Guidance Technologies

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- **Areas we will cover**

- Evolution
- Sensing Solutions
- Navigation Solutions
- Software Solutions
- Network
- Benefits & Opportunities

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Evolution

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The Evolution of PGS Technology

Zonal System

binary yes/no

occupancy only

rudimentary data

manual performance monitoring onsite

low accuracy, needs manual resets

Ultrasonic

binary yes/no

occupancy only

rudimentary data

manual performance monitoring onsite

moderate accuracy, hard to verify

Camera-based

data-driven + LPR

sensor with a brain

robust data & live video

advanced tech remote monitoring

verified 99% accuracy

Sensing Solutions

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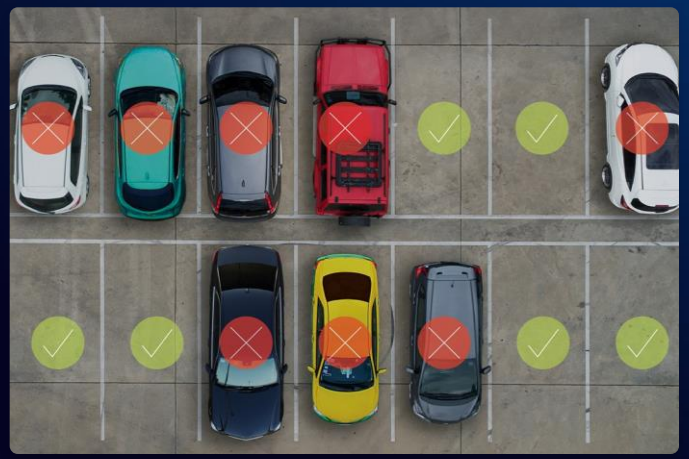
Parking Guidance Solutions

INDOOR

OUTDOOR



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Each unit of 2 cameras and 1 LED controls up to 4 parking spaces, 2 per each side

Bright RGB LED indicator that can display unlimited colors

Quick installation

LPR (license plate recognition)

Video monitoring & surveillance in and around the parking bays

IP66 seal rating

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Each unit controls up to 6 parking spaces

360° field of vision

24/7 video recording, monitoring, and surveillance

Easy installation and light infrastructure

Price point competitive with low-tech ultrasonic systems

No LPR

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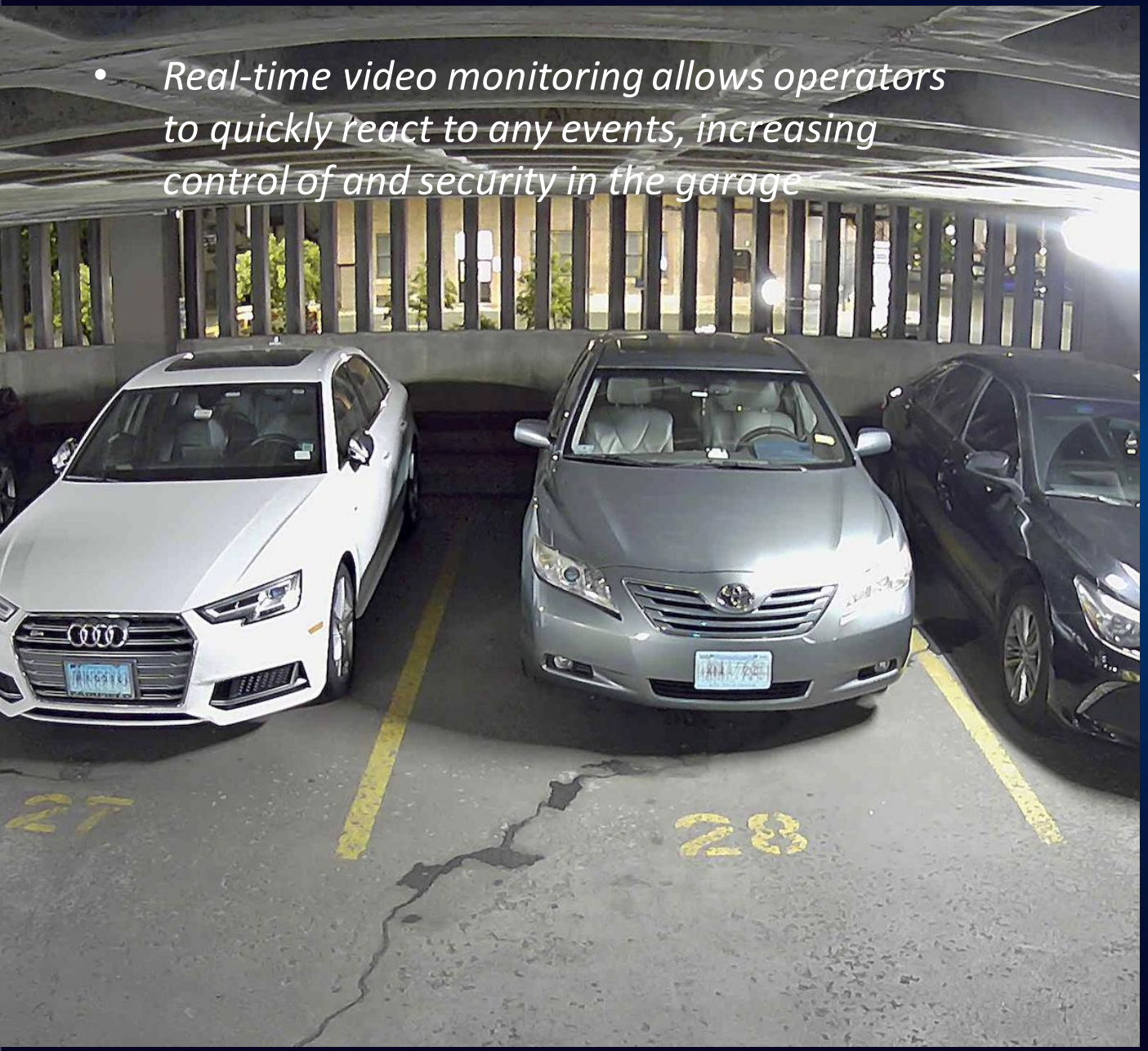

Added Security

- Real-time video monitoring
- Increased garage security and parker comfort and safety
- Surveillance of parking spaces & corridors to protect against criminal behavior in hard to view spaces
- Protects owners and management against fraudulent claims of theft and vandalism

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Find your Car Kiosk

Returning parker or staff member simply types in plate number

Via mobile app, touchscreen kiosk, pay station or other onsite system

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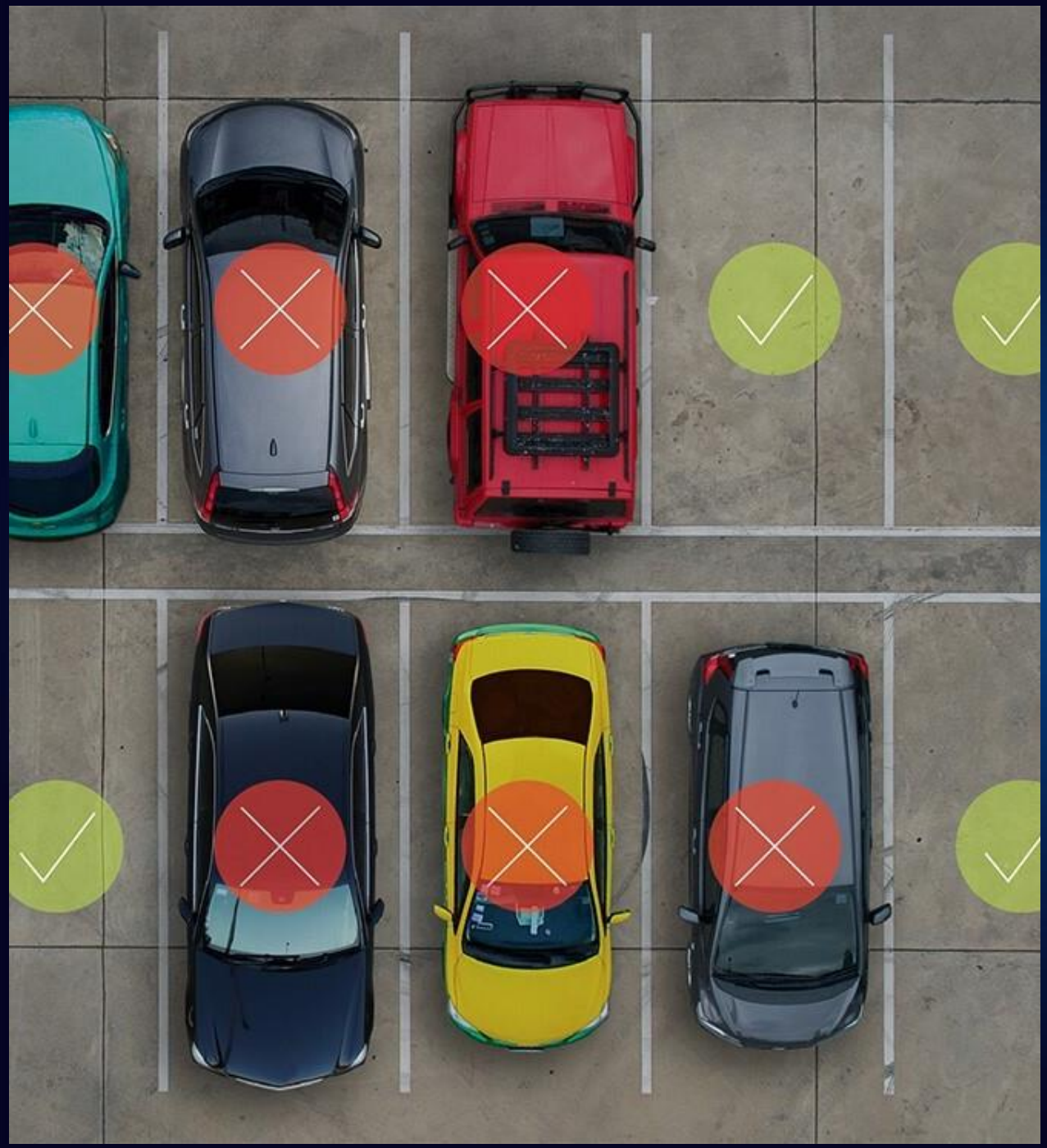

Wide-view cameras each monitor multiple bays

Video and rich data captured for business intelligence

Integrates with existing outdoor surveillance and indoor parking guidance system

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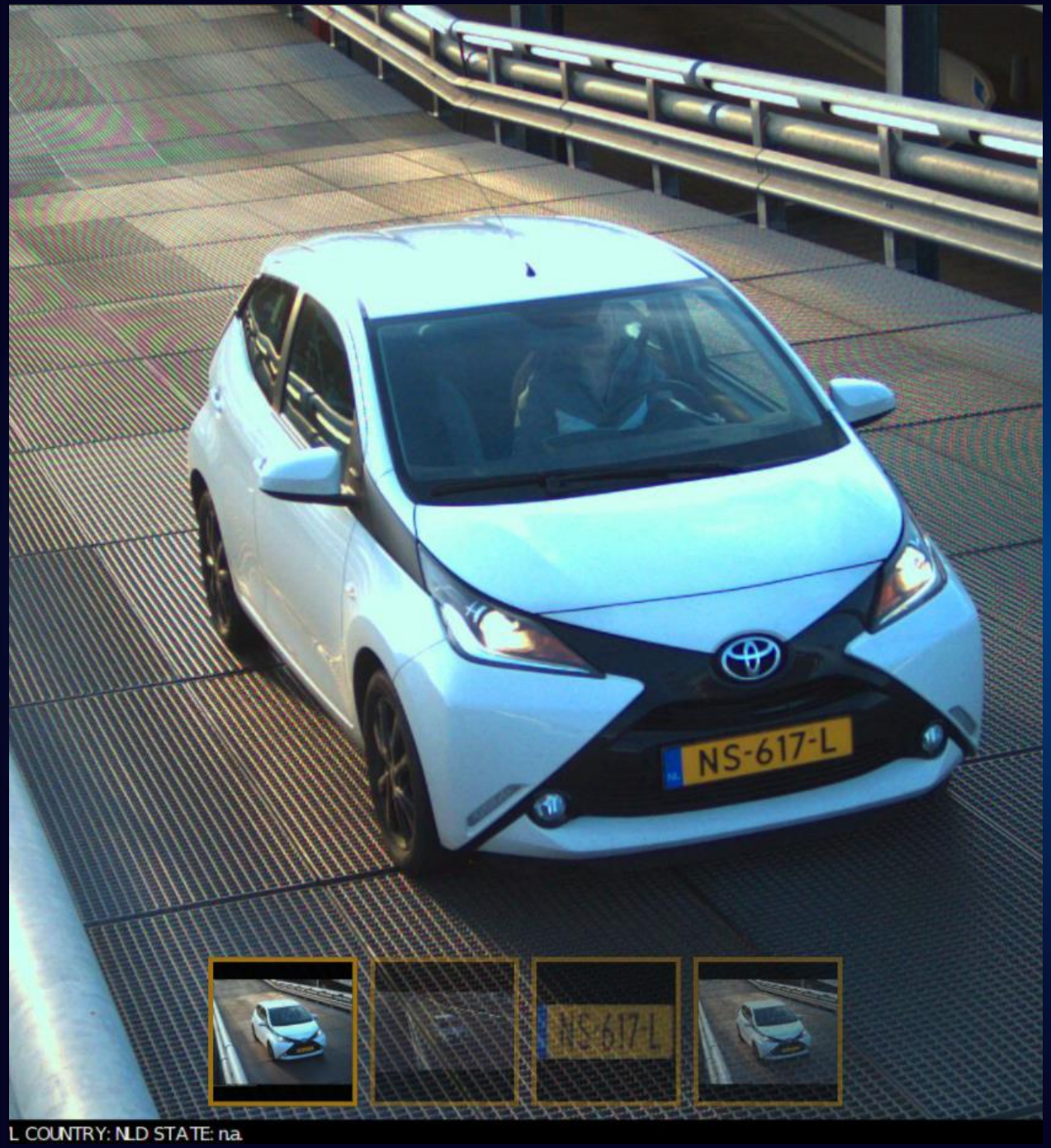

Lane Cameras with LPR

Cameras capture license plate images for vehicles exiting and entering rooftop or surface lots

Counts vehicles for occupancy data and tracking

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Navigation Solution

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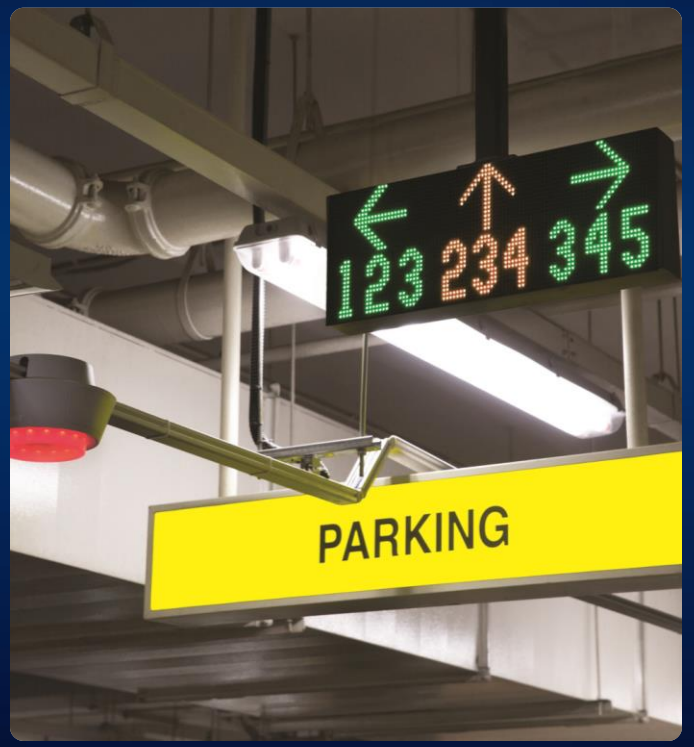
Data-driven Wayfinding Signage

Flexible Navigation Solutions



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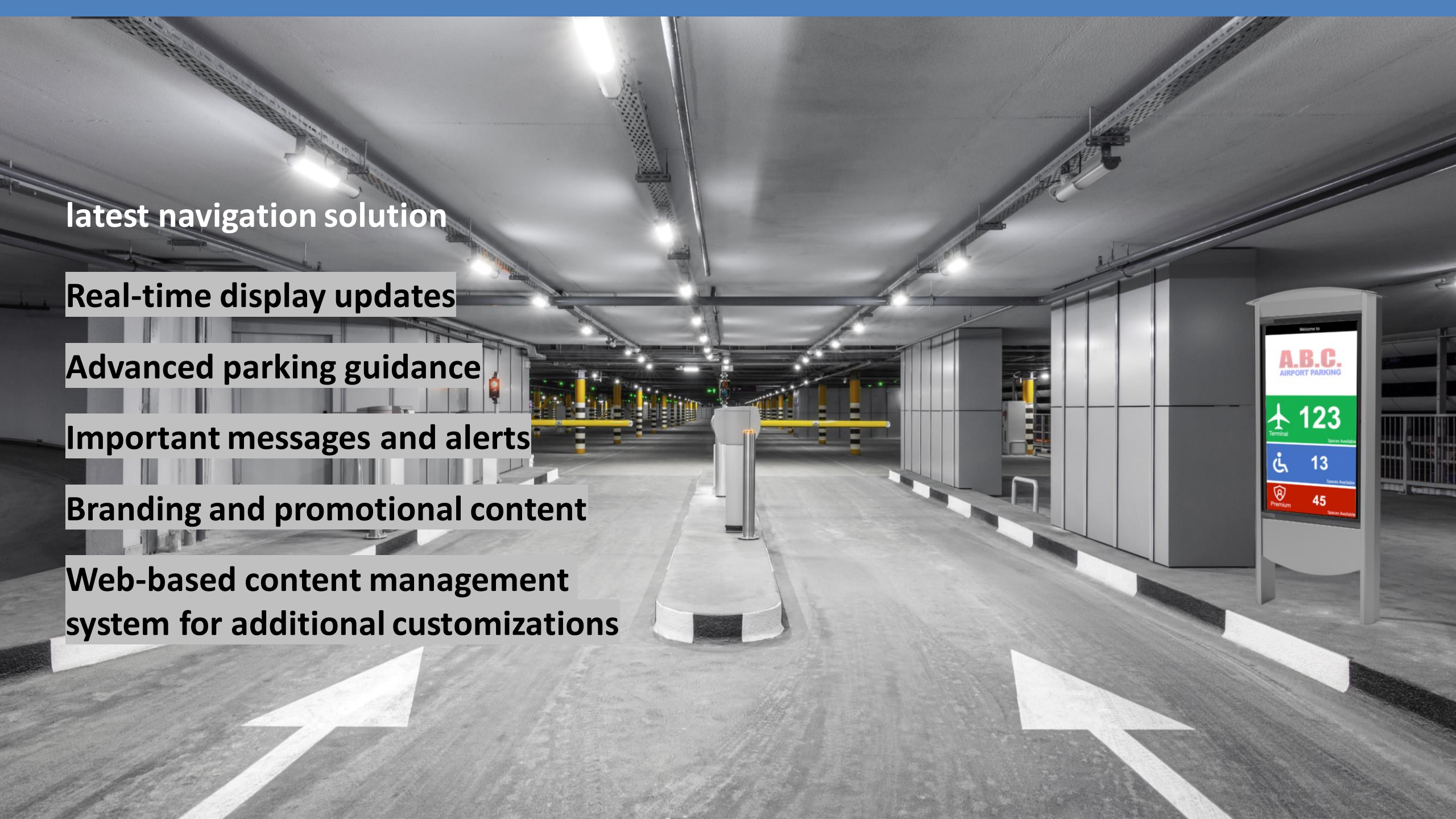

latest navigation solution

Real-time display updates

Advanced parking guidance

Important messages and alerts

Branding and promotional content

Web-based content management system for additional customizations

Software Solution

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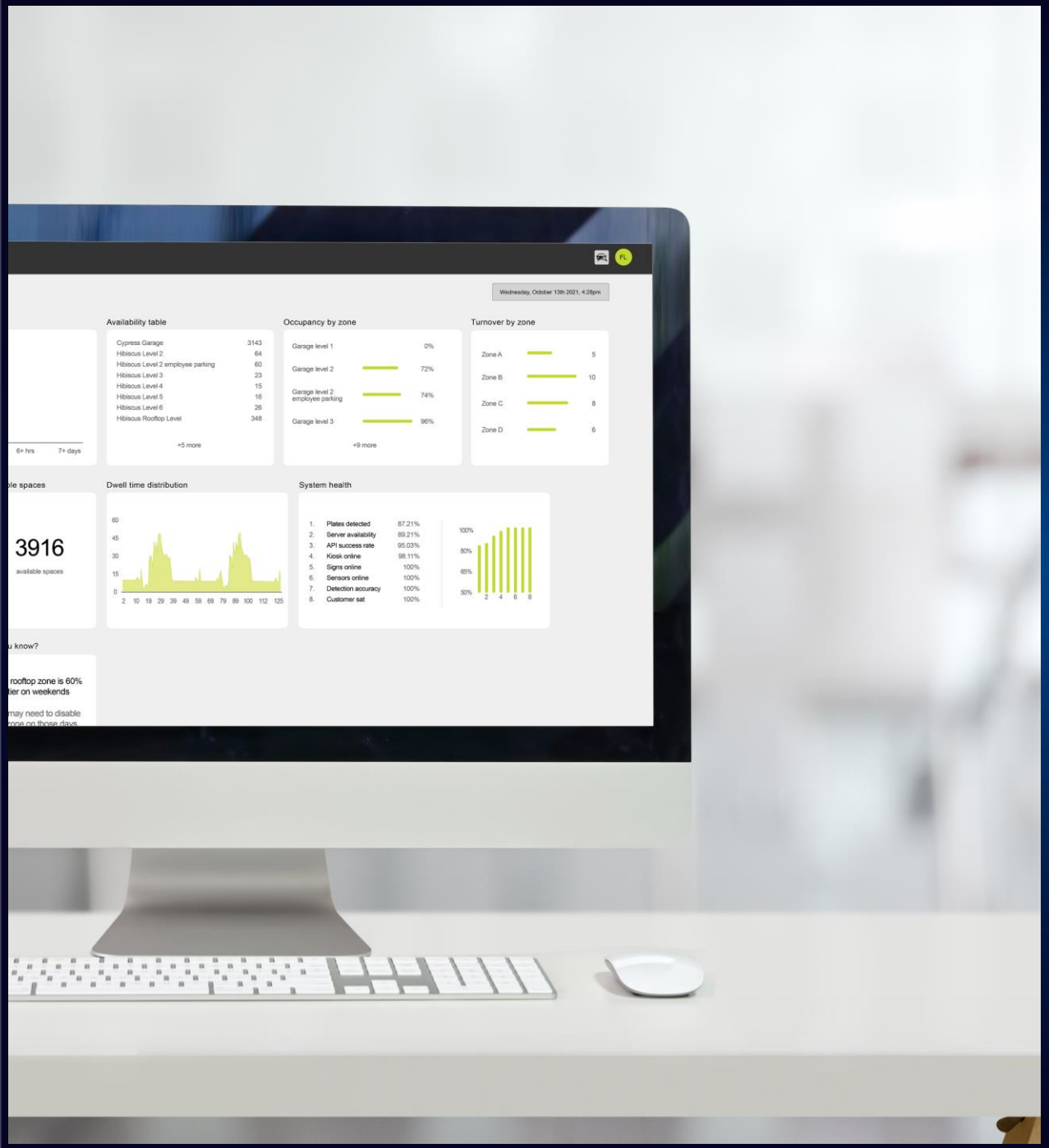

- **Dashboard with actionable real-time data**

Live data: maps, signs and regions

Historical data with comprehensive reporting

Augments PGS and next-generation wayfinding

Business intelligence at a glance for quicker decision-making

Intelligent mining of actionable system data

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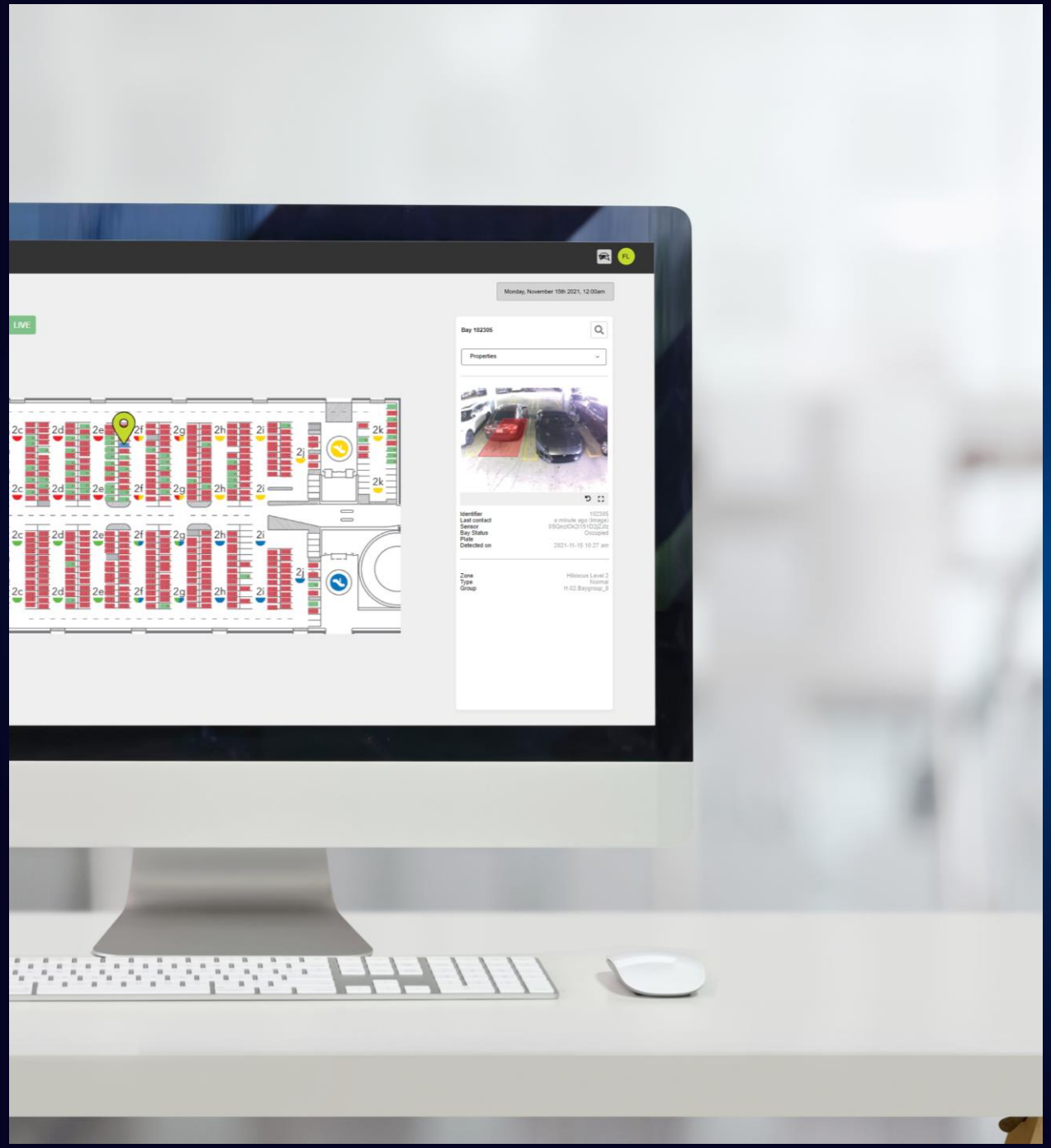

Enhance garage control with Maps

Configure maps & floor plans to suit your facility

Create & edit device configuration

View live images & bay history/state

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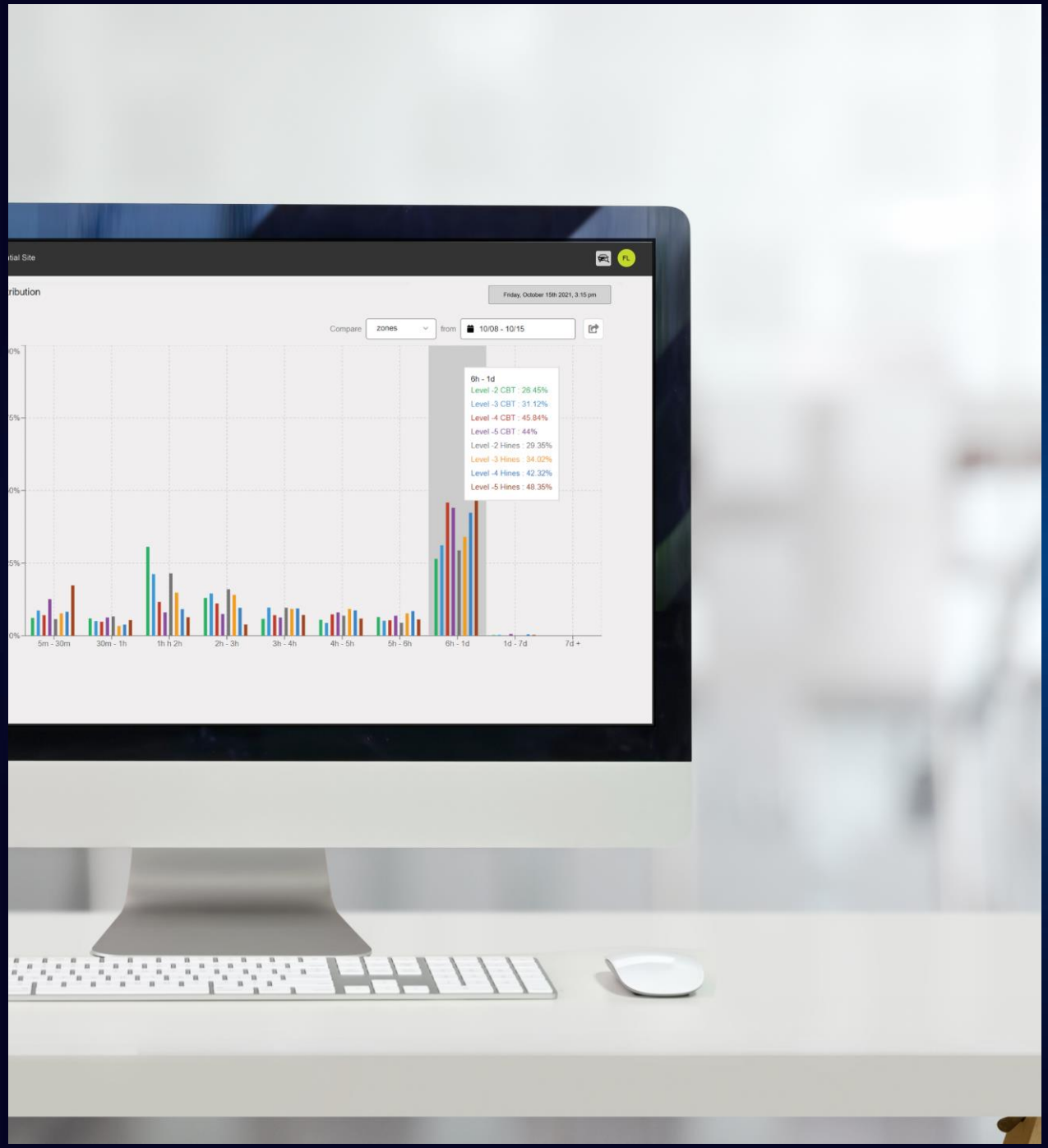

- **Maximize operational efficiency with incisive reports**

Track trends in visitor behavior

Designed for your installation and adaptable for your use

Easily create, save and retrieve reports

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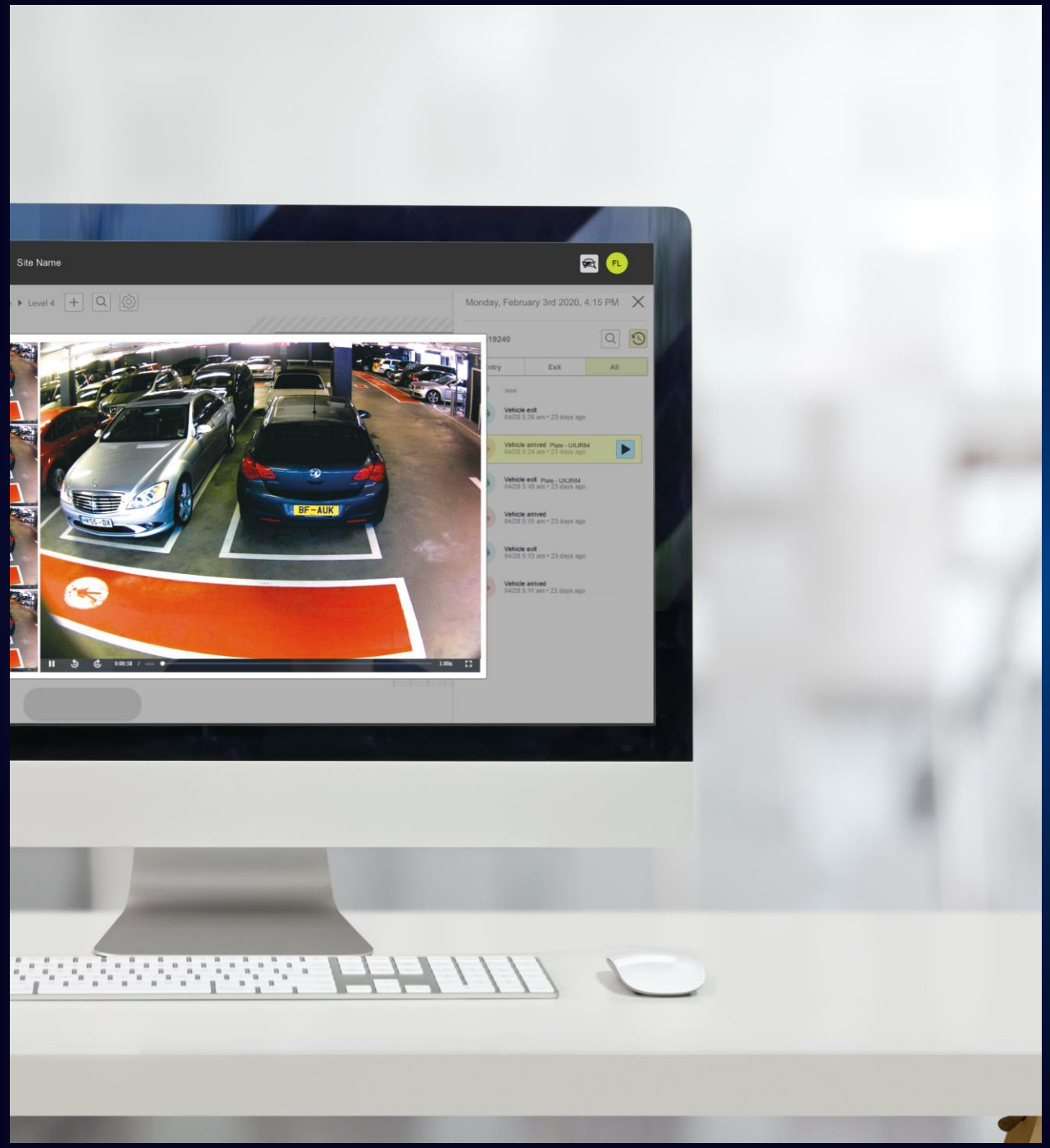

Surveillance

Next-generation video monitoring with multiple real-time views

Wide range of video and recording options including live streaming and video on demand

Search and view video associated with garage events based on location, time/event, license plate, etc.

Investigate video captures for both surveillance and parker preference/behavior insights

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Software with Find your Car locator

Returning parker or staff member simply types in plate number

Available Via Server, mobile app, touchscreen kiosk, pay station or other onsite system

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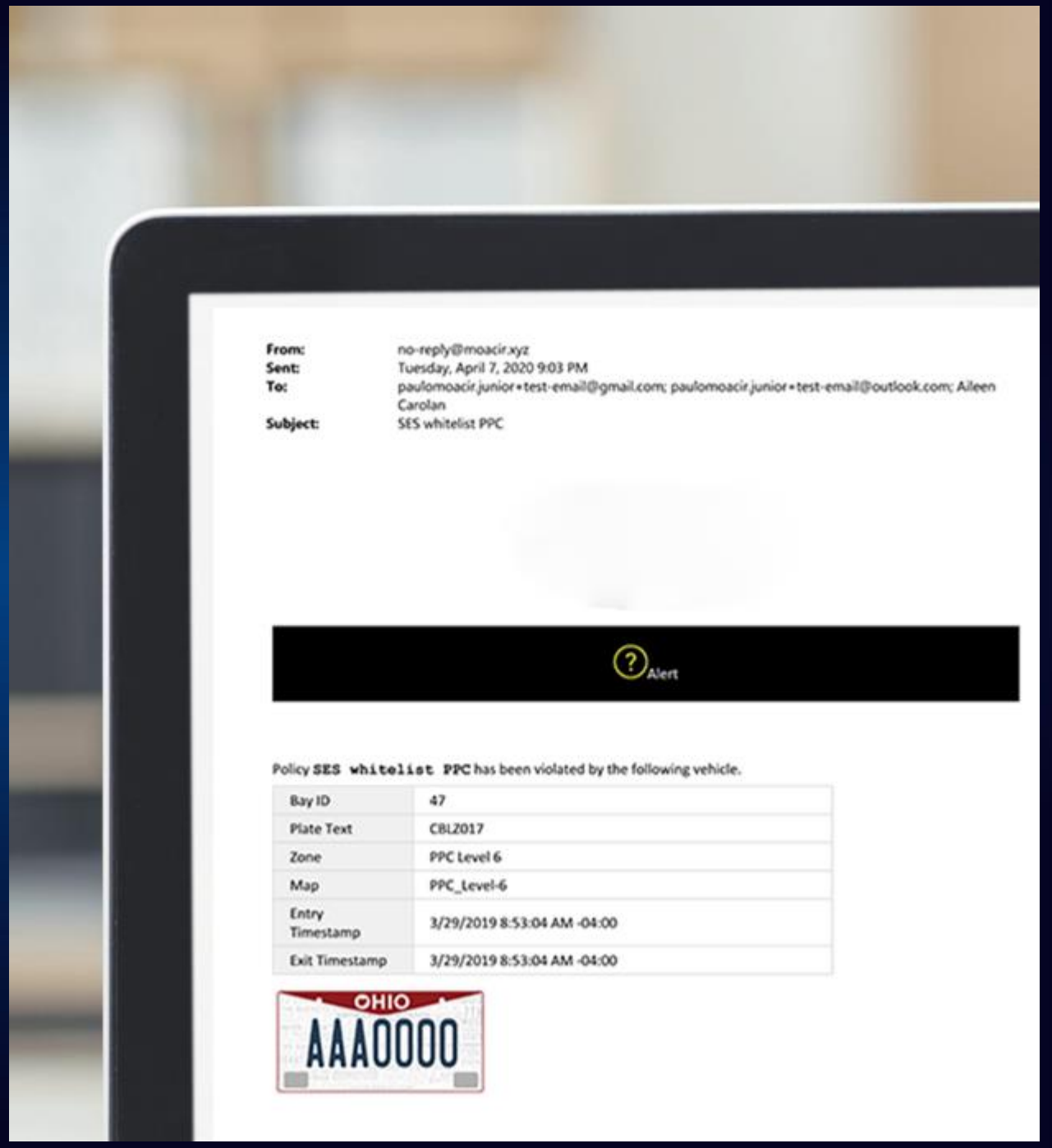
Alerts

Automated real-time email alerts for violators and staff

No fixed barriers/gates needed:

- Policy/overstays enforcement
- User group control for tiered parking
- Guard against threat vehicles
- Recognize VIPs upon arrival



APIs

Real-time access for third-party applications

Increase system controls to change bay type colors, signs/regions display updates

Integrate with Find Your Car on a white-label app or client website/mobile app

Live stream parking data into client-based applications for custom reporting

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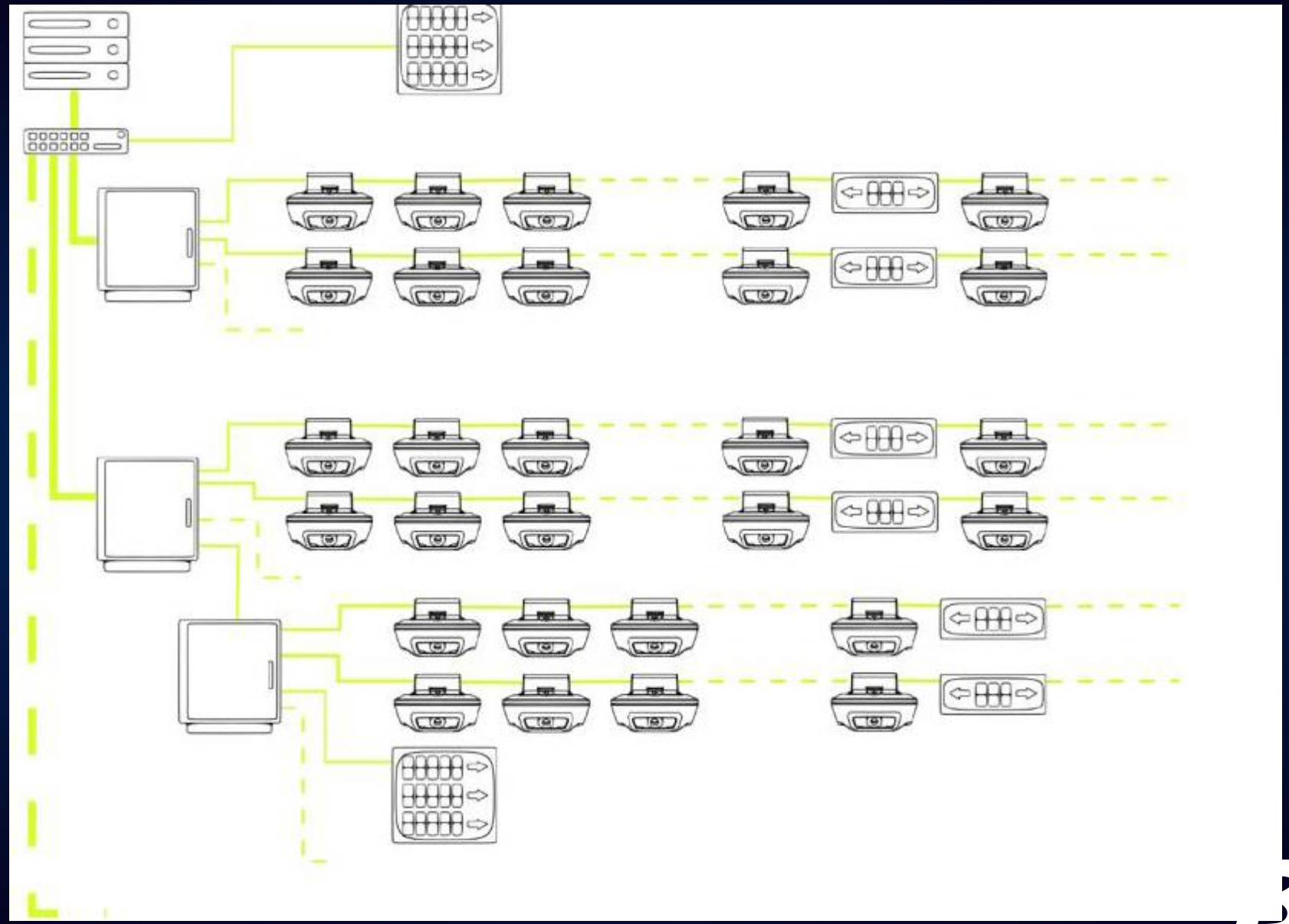
Network



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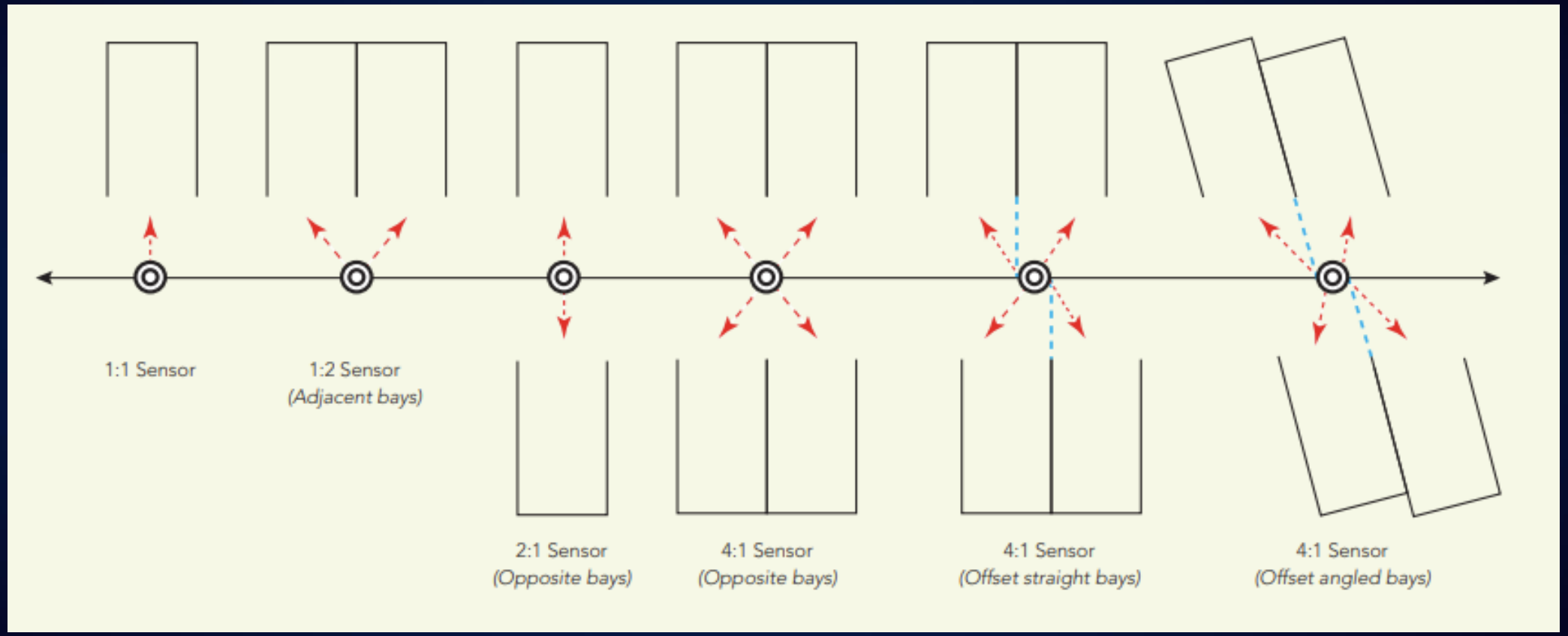
Positioning



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Benefits
& Opportunities

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Key Operator Benefits

Increased control

Ease operations

Boost revenues and profitability

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Key Operator Benefits

Increased control

Drive expense out of operations

Boost revenues and profitability

Elevate the parker experience

Enhance security

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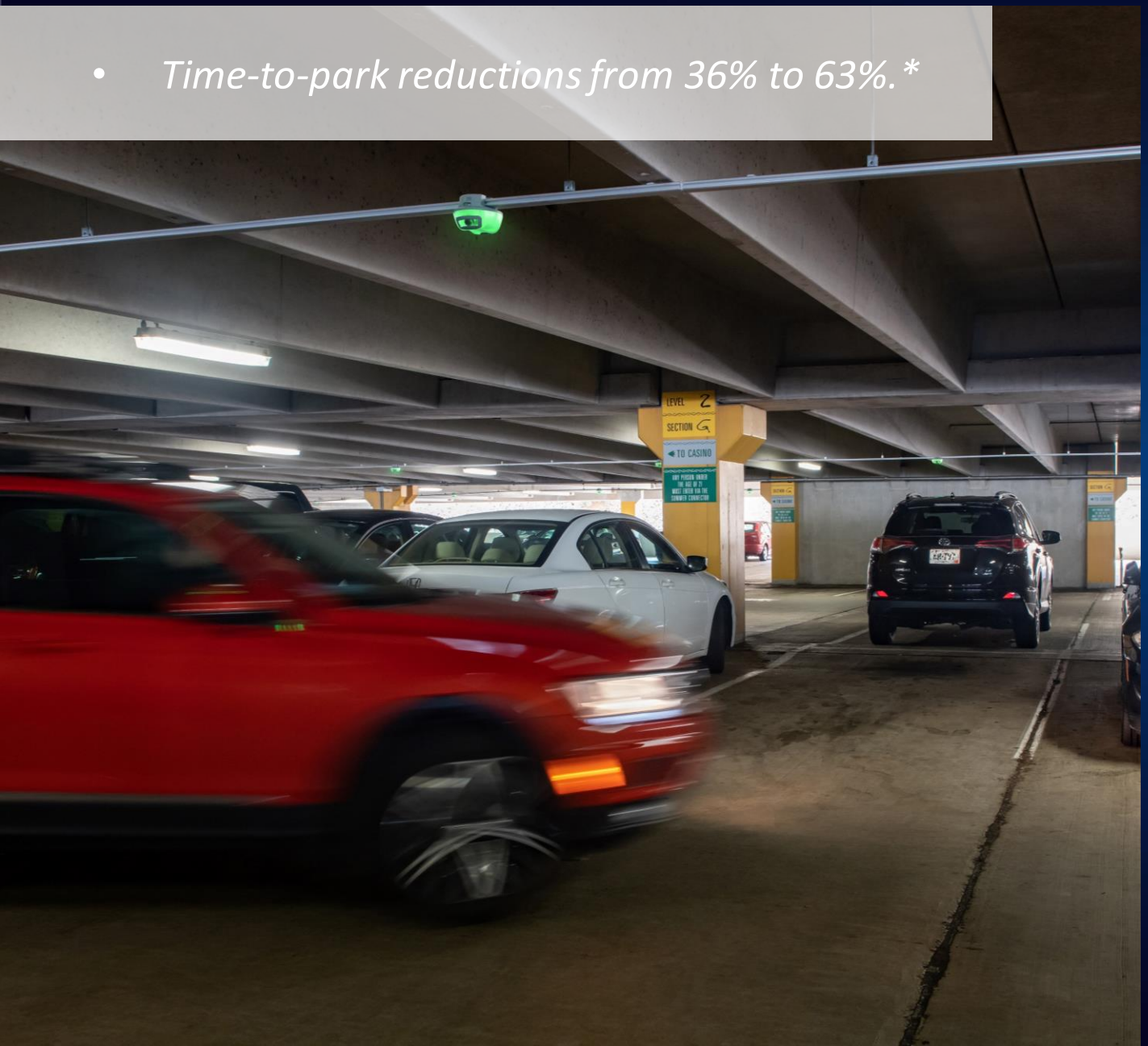
- *Time-to-park reductions from 36% to 63%.**



Reduced search time = increased sustainability

- Decreased the average time to park by 91.01 seconds
- Save the equivalent to 384 barrels of fuel
- 231,213 kg green house gas reduction per year
- 583,533 km (362,590 miles) reduction in travel distance for drivers

** According to a science-based benchmarking study on time-to-park conducted in collaboration with the Brisbane Airport Corporation (BAC). This groundbreaking before-and-after PGS analysis encompassed two parking facilities with a combined total of 7,903 individually M4-monitored bays.*

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Elevating CX Across the Parker Journey

A Seamless Parker Experience

App to find availability

Wayfinding signs on arrival

Interior directionals

Smart-Sensor LEDs

signaling drivers to vacant bays

Reduced Time to Park

through data/ navigation synergy

Find Your Car™ on return

Exit to roadway

includes validation by LPR exit camera

Thank you!

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