NVIDIA INCEPTION PROGRAM

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Campus Safety and Campus Planning Using AI

CAMPUS SAFETY

• The safety benefits derived from implementing AI in campus security cannot be overstated. AI can analyze patterns, detect unusual behaviors, and facilitate rapid responses to incidents, significantly reducing reaction times and enhancing overall campus safety. Whether it's using existing CCTV cameras or using smart light heads, AI can augment and greatly enhance the safety of school campuses.

• By understanding daily activity with quantifiable data, school districts can design smart schools of the future from the ground up. Data that previously is just held in cameras can now help predict the best routes for vehicle traffic, student traffic, alternative mobility traffic and even facilities management. More importantly, laying the groundwork for safer campuses and spaces.

SAFER, CONNECTED, SMARTER CAMPUSES

Gain insights and transform school campuses into secure, connected learning environments. With AI-powered monitoring, full Wi-Fi coverage, and adaptive lighting. School campuses become safer for students and staff while enabling advanced research and innovation.

Existing campus cameras + AI

✓ AI software that can work with existing cameras to process video real-time, 24/7

✓ AI at the edge – real-time decision-making with computer vision models detecting each use case

✓ Integrate to Operations staff, Emergency Services and even 911

Benefits

✓ Safer areas and real-time reaction

✓ Campus-wide Wi-Fi for students and research

✓ Real-time monitoring of 'people, places, and things'

✓ Track campus parking and traffic flow management

✓ Research-ready data for AI discovery

✓ No PII data

Smart Light Heads

✓ Light head solution can be installed in hours – no construction, no new cabling

✓ Video, audio & environmental awareness – detect threats, crowding, noise, air quality

✓ Built-in Wi-Fi, 5G, and V2X – expanding connectivity

✓ Use existing infrastructure – upgrade light poles into intelligent assets

Sourcewell
Awarded Contract

Contract #041525-NURL

Smart Infrastructure Solutions, Outdoor Sensors, and Related Products and Services Contract
- Pre-negotiated pricing
- Faster procurement
- No RFP required
- Compliant with purchasing regulations
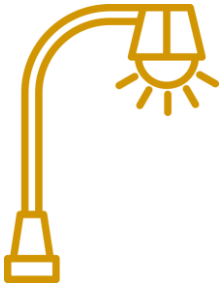
SOLUTION USING AI AND OUR PRODUCTS

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ANTICIPATION and IDENTIFICTION OF PUBLIC RISK

AI GUN DETECTION
"No Guns Allowed. AI Monitoring in Progress"

SMART LIGHTING IN POORLY LIT AREAS
Embedded cameras detects motion

SITUATIONAL MONITORING
AI can detect crowds, fights, people running, people on the ground and many more scenarios.

APPRAISAL AND INTERVENTION OF PUBLIC RISK

911/EMS INTEGRATION
Reduce the time to react to seconds vs minutes.

AI DETECTION
Alerts and Notifications based on situational monitoring

TRACK AND REPORT
Provide location and reduce chance of a second crime

PLANNING AND MITIGATION OF PUBLIC RISK

VEHICLE TRACKING
Monitor on campus parking, availability and suspicious vehicles

STUDENT TRACKING
Track routes, patterns, gatherings, and accessibility

ACTIONABLE DATA
Use data to plan new school policies, infrastructure and operations

SMART CAMPUS VISIBILITY

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Traffic management

-Traffic counting
-Vehicle type
-Speed monitoring

Public Safety

-Gun detection
-Direct integration to 911
-Situational awareness

Parking management

-Available spaces & Parking occupancy
-Abandoned vehicles, expired parking
-License plate recognition

Crowd control

-Alert for crowd gathering
-Fight detection, gun detection
-Group detection

Dynamic Lighting

-Lighting based on presence of vehicle and pedestrian
-Alert detection/panic button

Road surface management

-Flood detection
-Snow coverage
-Emergency Management Communication

Event Visibility
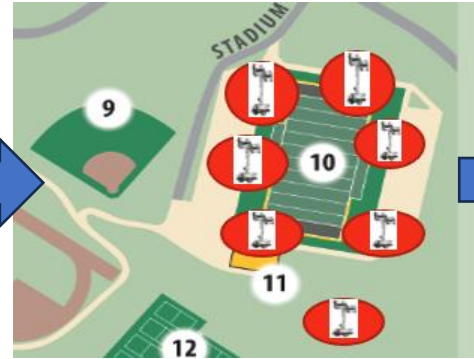

-Entrance queue
-Parking occupancy
-Entry vehicle counting

Road safety

-Pedestrian tracking
-Bike lane violations
-Safety violations
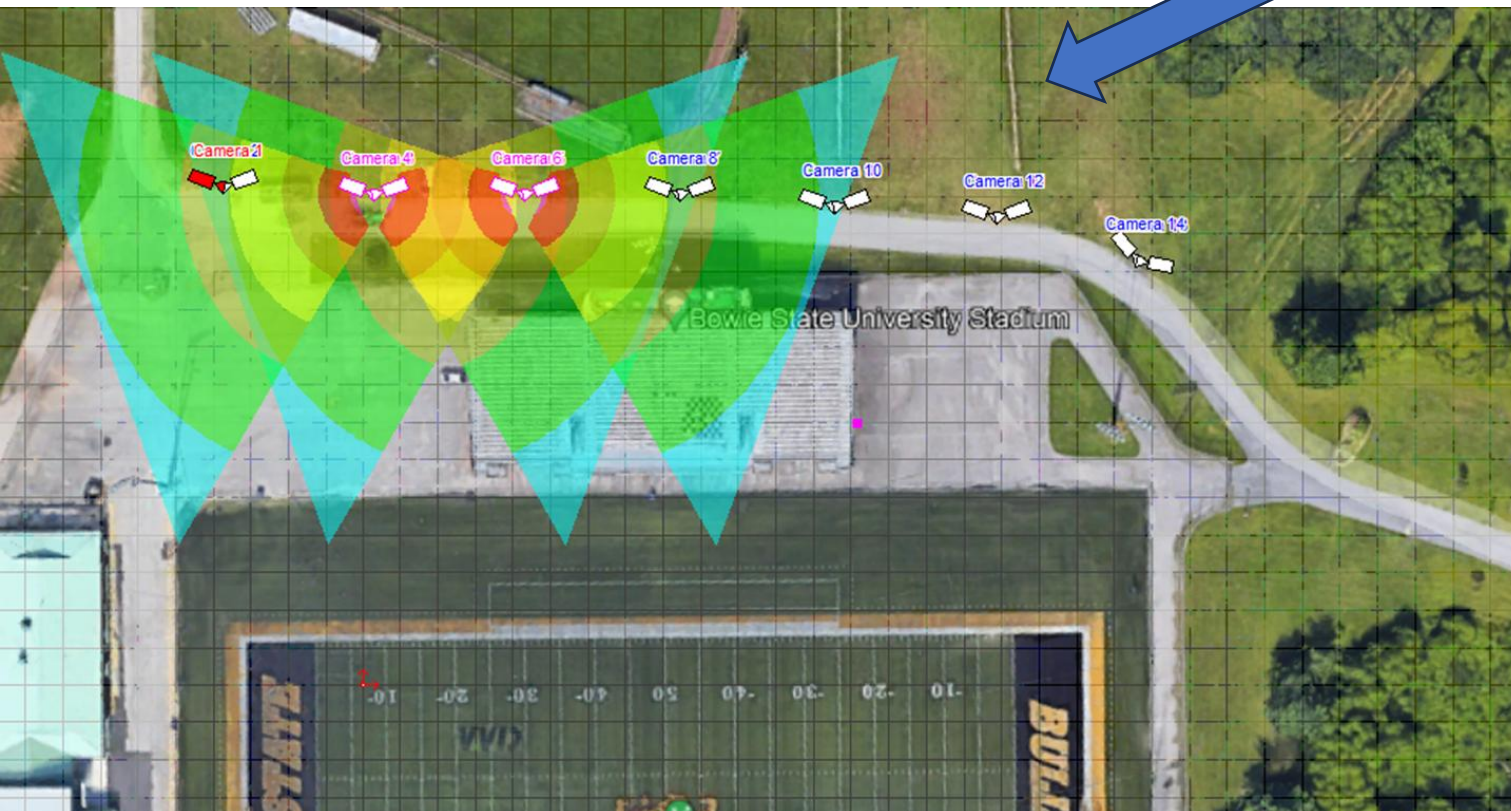
- ✓ Full Site Survey design with coverage analysis

- ✓ Placement and installation design for all areas

- ✓ Zone configuration for maximum data reporting

- ✓ Overlapping coverage of lighting as well as cameras

- ✓ No areas uncovered

PRODUCT SUPPLIER, SYSTEM INTEGRATOR INSTALLATION, SUPPORT/UPGRADES

- Nureal.ai is the R&D and product company that develops smart solutions for smart cities.

- We act also as a Systems Integrator that provides implementation support for all smart products.

- All hardware and software is provided with each deployment along with training and DevOps tools.

- All maintenance, warranty and software upgrades are honored as part of our service agreements with our partners.

We are the single turnkey provider for all things smart city.
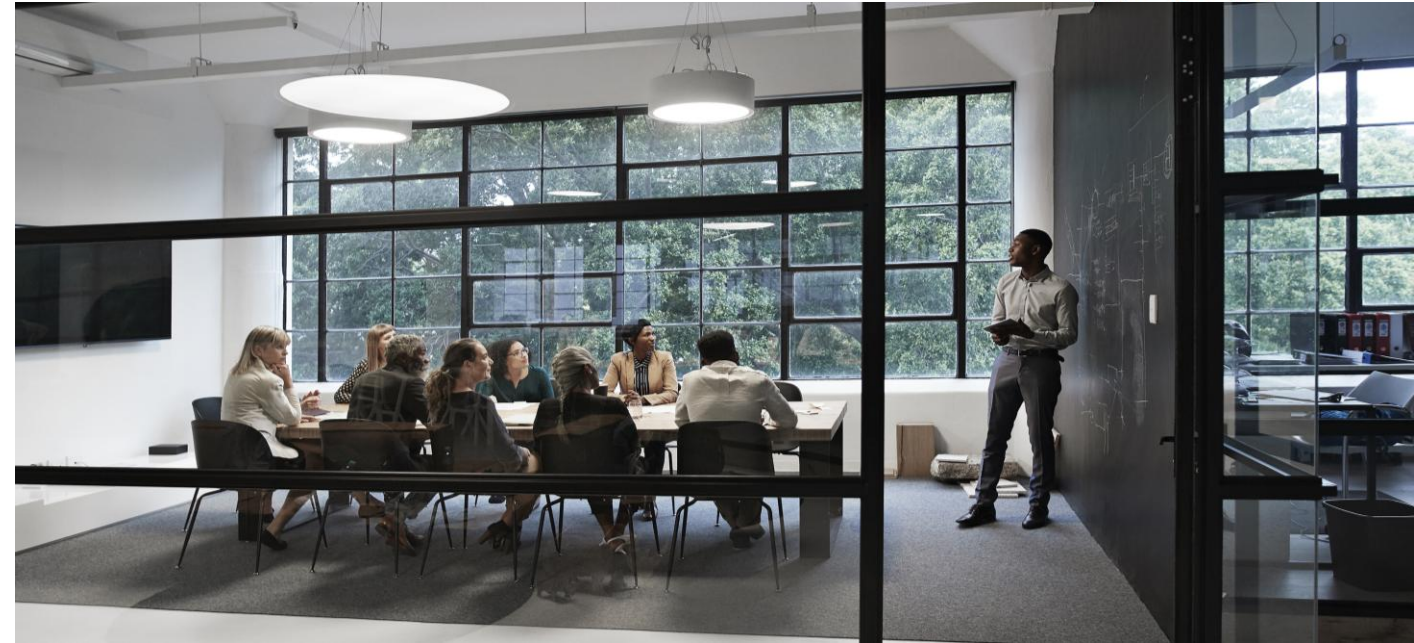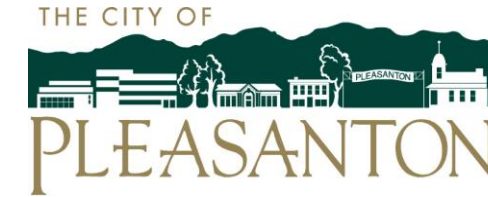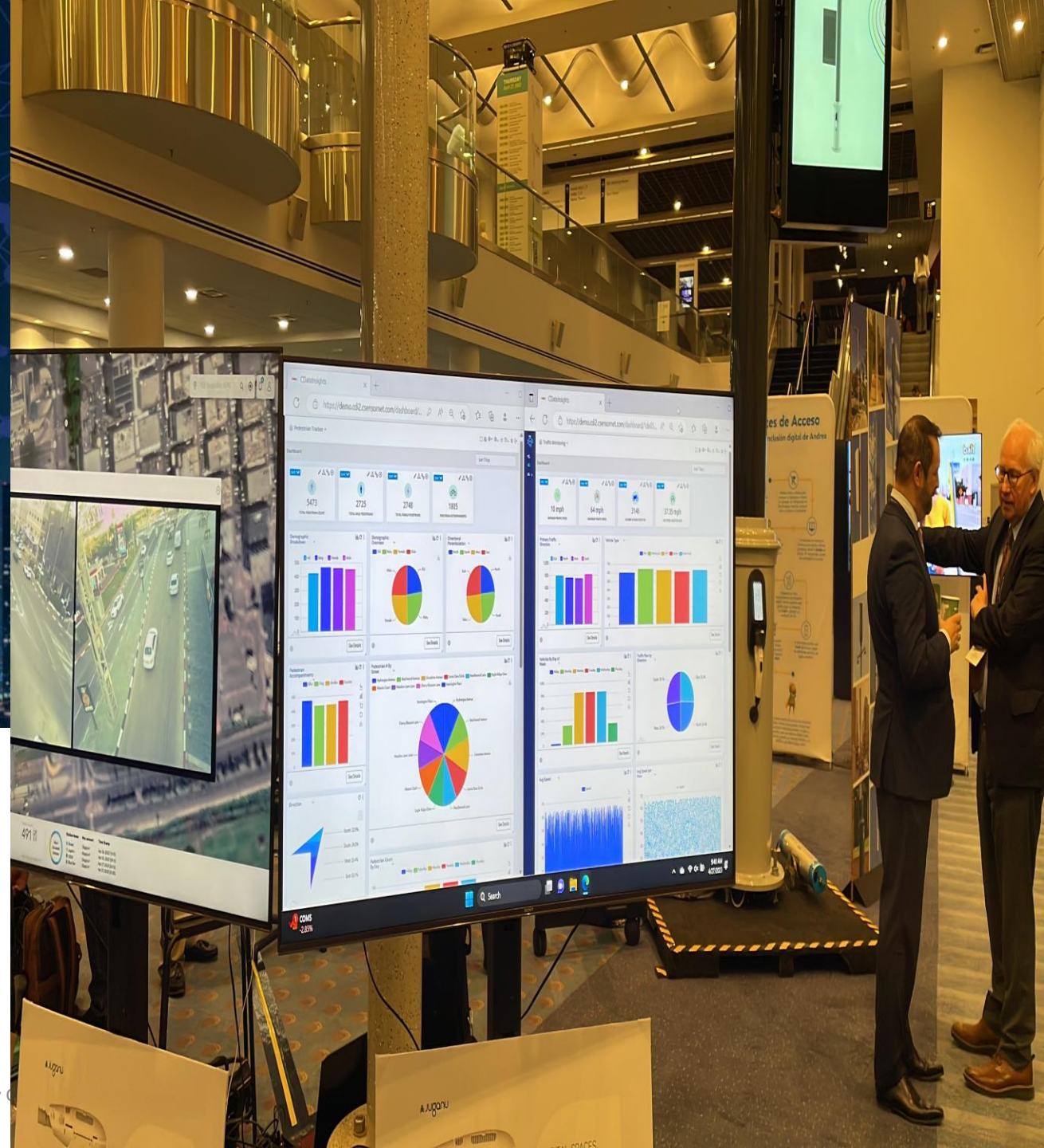
Debut of the AI Pole at the Cities Summit of the Americas, April 2023

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