

ALBUQUERQUE SMART CITY

CREATING SMART COMMUNITIES BY COMBINING THE LATEST
SMART TECHNOLOGIES WITH INNOVATIVE SOLUTIONS

PROSPECTUS PRESENTATION

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THE SMART CITY INITIATIVE

The Smart City initiative is all about combining smart hardware and software into smart solutions. The goal is not just to produce data, but to improve safety, communication, and mobility. By adding Smart City technology to key points in Albuquerque, we can use trash cans, bus stops, or crosswalks to identify ongoing issues or opportunities in an automated and intelligent way.

Our Proving Grounds at Pino Yards allow us to take the Smart City initiative from concept to application, allowing us the opportunity to put various smart technologies, both hardware and software, to a real-world test.

This presentation provides an overview of both the technologies themselves and the problems we are solving through smart solutions. These solutions are applied to multiple scenarios, creating greater value than fixing individual problems.

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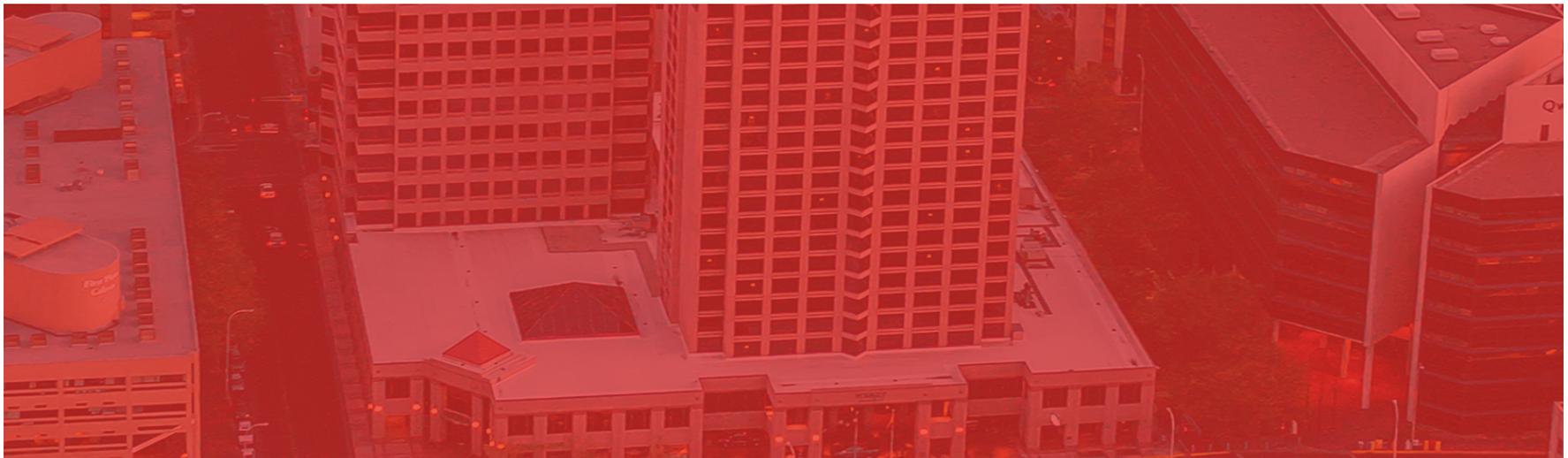
LET'S GO SOMEWHERE BOLD

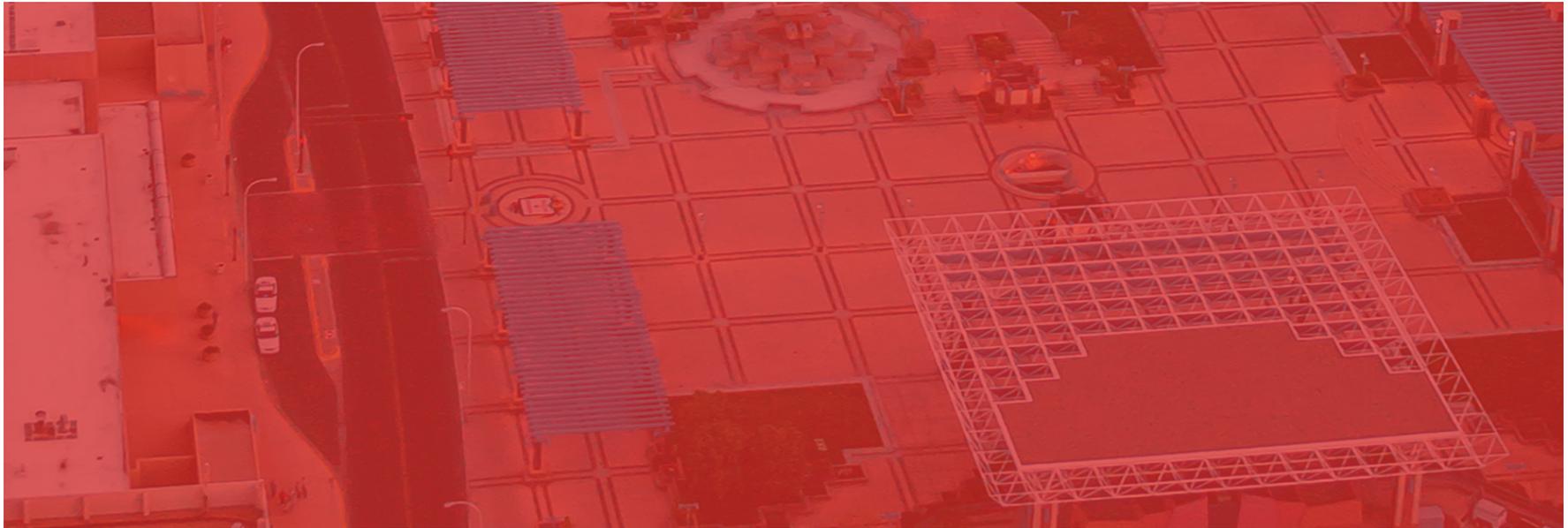
WELCOME TO ALBUQUERQUE!

Albuquerque has long been a source of innovation. Looking at our past successes, we can proudly say the first cleanroom was developed here. Microsoft was created here. Central New Mexico Community College, University of New Mexico, Sandia National Laboratories, Air Force Research Labs, and Los Alamos National Laboratory are continuing this tradition of innovation. From idea to conception to development, we accomplish much with fewer resources than others. Our achievable goal is to be a Smart City hub for the nation and the world.

At the City of Albuquerque, we don't use technology for technology's sake. We're not gathering data just because we can. Instead, we're looking at real-world problems and opportunities that can be overcome or realized to positively impact the lives of residents and visitors. We do this by combining people, technology, and data in an innovative and responsible way.

Smart City development should be about looking at solution sets. We aren't looking for an answer





to a single problem, but rather how can we reuse proven ideas and components and apply them to different scenarios.

At the same time, we want to be cognizant of concerns, e.g. privacy and equality, that these technologies raise. We want to create something that will help us feel more secure without also making us fearful. We're taking a holistic view as we continue to develop solutions sets for our Smart City initiatives. Albuquerque, the 32nd largest city in the United States, is already a reflection of what the rest of the country will look like in the future in

regard to demographics. Albuquerque is a mix of old and new, from 300-year-old buildings to brand new. We know that we face real challenges and that others face the same challenges across the globe.

We're using Smart City technology to prepare for the challenges of the present and the future. Our Proving Labs – controlled, real-world environments – allow us to safely test and experiment with the aim of answering these questions and many more.

Brian Osterloh | **DIRECTOR**

NOT JUST DREAMING, DOING

TESTING THE LATEST TECHNOLOGIES WITH REAL-WORLD SCENARIOS

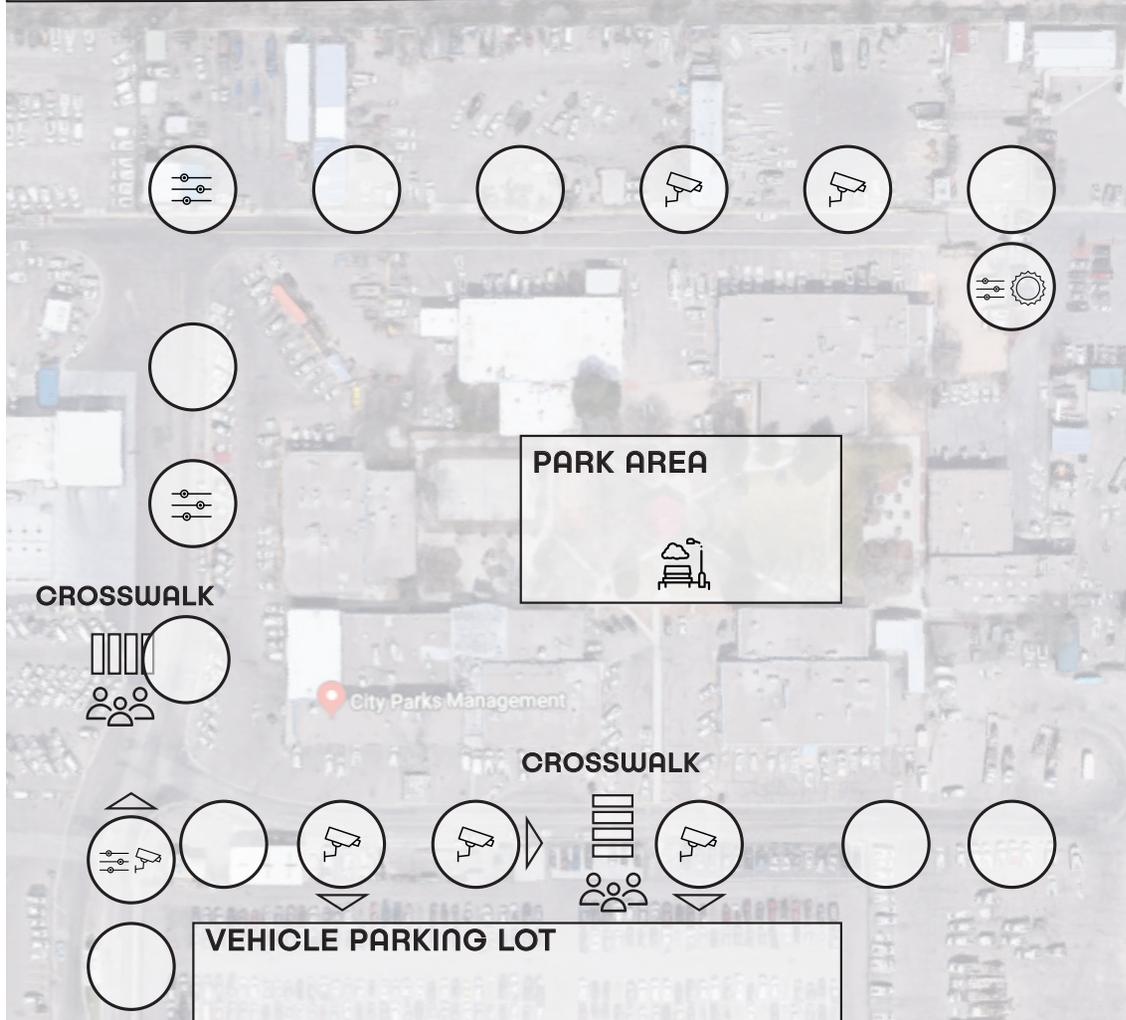
The Proving Grounds includes Pino Yards and the Camera Lab at 4th and Marquette. These locations provide the opportunity to put various smart technologies, both hardware and software, to a real-world test.

These locations are working, living environments with a varied urban framework covering a large area. Outside contractors and collaborators can perform tests and demonstrations of various hardware and software.





DRAINAGE CHANNEL



SMART COMMUNITIES PROVING LABS

PINO YARDS SITE



SMART SPOT PARK

Provides improved smart coverage of a large area.



PEDESTRIAN & VEHICLE BEHAVIOR

Provides data on pedestrian and vehicle patterns and interactions at crosswalks. Also provides parking lot data, e.g. available spots and security alerts.



FLOOD ALERTS

Smart devices placed at key arroyo overlook spots automatically detect the height and flow of water and then alert the public.



SMART LIGHTING

Placed on light poles and are accessed remotely to control brightness/intensity.



CAMERAS

Provides data on pedestrian and vehicle patterns and interactions at crosswalks, and parking lot data, e.g. available spots and security alerts.



ENVIRONMENTAL SENSOR

A multi-input sensor that gathers environmental conditions, e.g. air quality and temperature.



SOLAR LIGHT

Provides battery power to smart devices like smart lighting.

SMART SOLUTIONS

TAKING THE HYPE OUT OF THE HYPOTHESIS

If a trash truck can become a multi-data sensor that can monitor street issues (e.g. potholes, abandoned vehicles), then the same sensors placed on a drone to obtain the same data during an emergency situation. Data collection should lead to decision automation as well as problem pre-emption.

We're working on solutions that apply to multiple problems by blending people, technology, and data to bring value to our vibrant, diverse community. This creates greater value than fixing individual problems.



SMART PARKING

PROBLEM

- Obtain real-time information on parking lot status, e.g. open bays.

SOLUTION

- Monitor bays, leading to:
- Better availability information
 - Better enforcement:
 - Monitoring duration/time vehicles have been in a particular spot
 - Detecting double-parked cars
 - Alert suspicious activity or vandalism

RESULT

- Parking lot safety and efficiency increases.



SMART LIGHTING

PROBLEM

- Effectively direct large groups during an emergency.

SOLUTION

- Smart Node-equipped street lights programmed to light in sequence toward an exit, providing a clear and easy path for people to follow.

RESULT

- In situations where panic may take over, (e.g. security threat at a sporting event), easily communicated directions may save lives.
- It may also allow more efficient parking before the start of an event.



SMART CROSSWALKS

PROBLEM

- Identify unsafe situations, e.g. trips and falls, in the crosswalk area.
- Keep pedestrians using crosswalks safe from vehicles and improve Albuquerque's high pedestrian fatality rate.



SOLUTION

- Alert traffic that an unsafe situation (e.g. vehicle at high speed and pedestrian in crosswalk) exists.
- Heat map analysis of pedestrian crossing behaviors near crosswalks (e.g. using the crosswalk, jaywalking) to identify design potential improvements.



RESULT

- Enforcement actions use real data to make crosswalks safer with specific improvements at individual sites (e.g. unique visibility or mobility concerns at particular crosswalks).



SMART SOUND DETECTION

PROBLEM

- Reduce record homicide rate in New Mexico (63% of which involve guns) by quickly informing the public or APD of a dangerous event e.g. a gunshot.
- Improve the quality of data by accurately associating reports with calls. This provides a better understanding of when and where incidents take place.



SOLUTION

- Automatically detect events e.g. a gunshot which then allows Real Time Crime Center to take further action:
 - Automated dispatch of officers:
 - Improved environmental response. Smart Node-equipped street lights used by RTCC provide changes to area brightness that meets the needs of the tactical situation. Other options include flashing, strobing, or other visual cues in order to alert nearby civilians.



RESULT

- By monitoring data, we aim to discover trends of areas with higher than average incidents and implement preventative action.

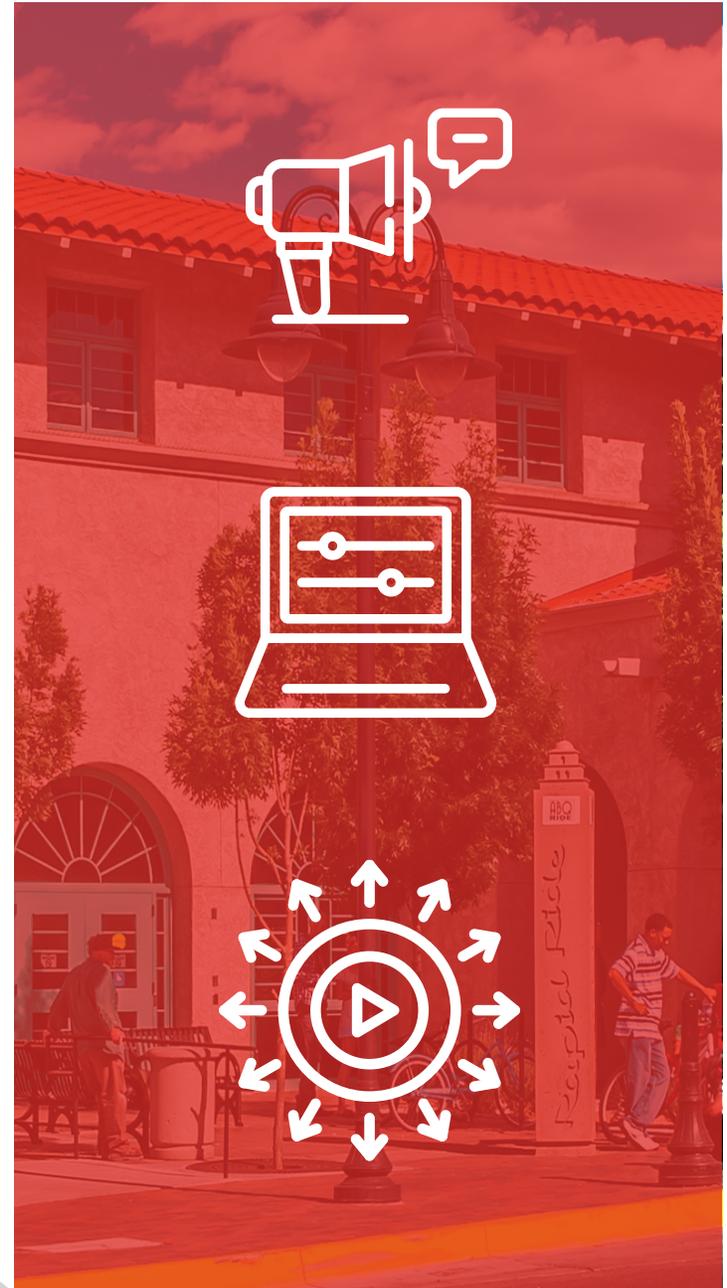


THE TECHNOLOGIES

CUTTING EDGE INNOVATIONS GETTING IT DONE

Incredible new technologies for Smart Cities are available now and more are on the way. Technologies (e.g. smart lighting, cameras) are at their best when combined with other hardware and software components. On its own, smart lighting can help monitor light outages and intelligently regulate brightness to save power.

Paired with hardware and software, e.g. gunshot detection, the impact can be even greater because an alert from the gunshot detection system could automatically notify police of shots fired, and the smart lighting could illuminate the scene.



SMART LIGHTING

 TRL 4: PRODUCTION

 NEXT LEVEL: Q4 2020

TRL (TECHNICAL READINESS LEVEL)

- Remotely controlled with full brightness/intensity options.
- Used for event-specific lighting and outage reports.
- Nodes allow preventative maintenance which reduces considerably the carbon footprint of the O&M.
- Can detect outages but also potential risks, e.g. leaning poles.



ENVIRONMENTAL SENSOR

🕒 TRL2: LABORATORY PROOF OF CONCEPT 🕒 NEXT LEVEL: Q2 2020

- Multi-input sensor that gathers environmental conditions, e.g. air quality, allergies, and temperature.
- Location-specific data gathered by deployment at various locations and elevations.
- Can detect unexpected pollution/spills from industrial partners.



PARKING LOT CAMERA

🕒 TRL2: LABORATORY PROOF OF CONCEPT 🕒 NEXT LEVEL: Q2 2020

- These cameras provide data (e.g. available spots, security alerts, and more) when used in conjunction with AI.



GUNSHOT DETECTION



TRL3: PILOT PRODUCTION



NEXT LEVEL: Q2 2020

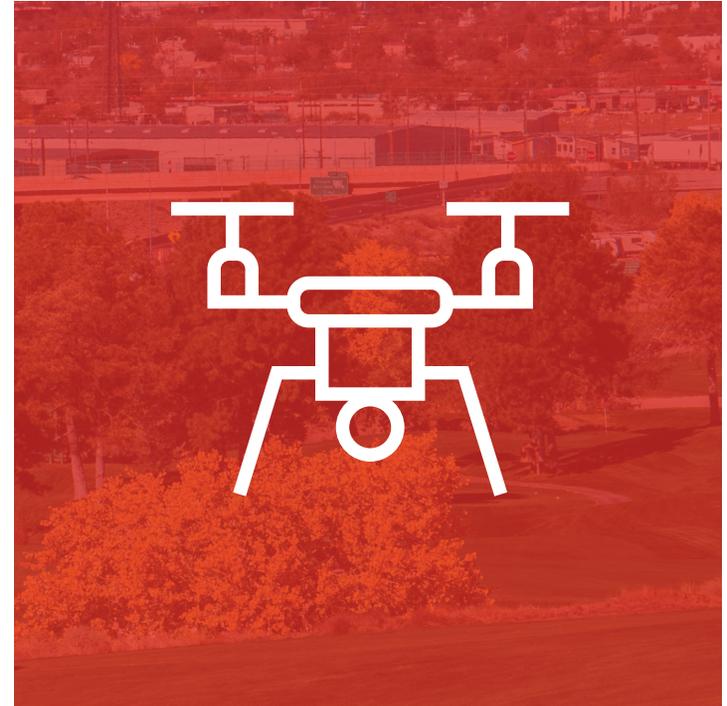
- Sensors, placed on light poles or other public fixtures, detect loud sounds, and provide automatic alerts.
- Detecting other acoustic signatures, e.g. screeching tires may be possible.



DRONE

🕒 TRL2: LABORATORY PROOF OF CONCEPT 🕒 NEXT LEVEL: Q3 2020

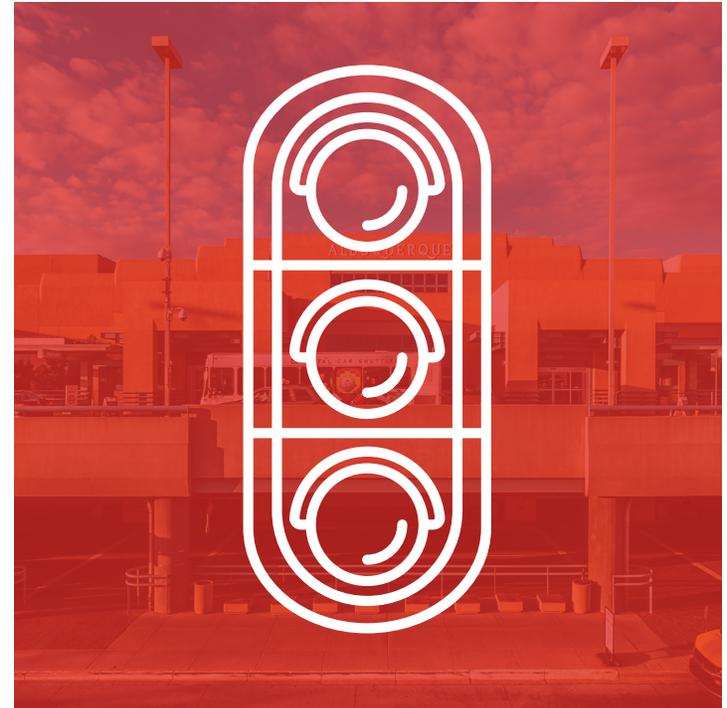
- Adding smart cameras and environmental sensors to a drone during an emergency where streets are not accessible allows emergency managers to assess damages by using AI to compare images taken before and after the event.
- Monitor and report on tree canopy conditions.
- Drones are able to conduct safer and more efficient roof inspections.



TRAFFIC SIGNAL PRIORITIZATION

🕒 TRL2: LABORATORY PROOF OF CONCEPT 🕒 NEXT LEVEL: Q3 2020

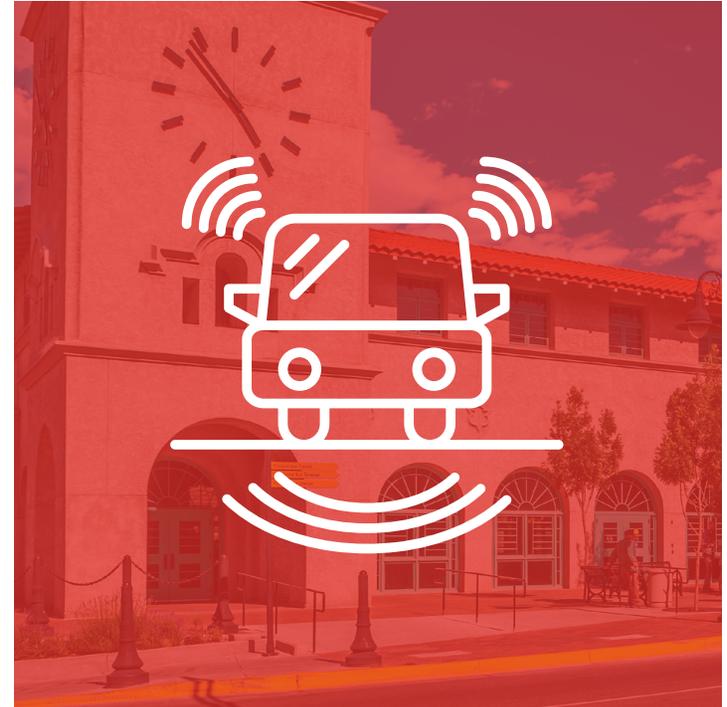
- Connected traffic signals communicate with each other to provide a sequenced flow of the traffic, e.g. one intersection can tell the next intersection when to turn green.
- Bus Rapid Transit requires the bus to seamlessly make its way along its route, undisturbed by regular car traffic. Traffic Signal prioritization can be conditional so that the bus only gets priority when it's behind schedule. Access to a dedicated lane can be governed by the time of day, so that those buses entering the City have priority in the morning, and those leaving the City have priority in the afternoon. The same technology can provide various levels of priority, ranging from first responders to mass transit to snowplows to maintenance trucks.



CONNECTED VEHICLES

🕒 TRL2: LABORATORY PROOF OF CONCEPT 🕒 NEXT LEVEL: Q3 2020

- The intersections communicate with properly equipped vehicles and smartphones to forewarn drivers to prepare to get to the light during the red cycle, and giving them notice of how long it will remain red.
- The intersection tells the vehicle its Signal Phase and Timing (SPaT) data; additional computation in the cloud communicated to a tablet in the bus may tell the bus driver the ideal time to leave to align with traffic signal lights. The trip will be a smoother ride for the passengers, less gas consumption based on a single acceleration, and less stress to the bus driver.
- Vehicles driven by first responders can communicate to the intersection to trigger a change of the traffic signal – responding to calls much faster than safer than turning on sirens and navigating through the traffic in conflict with the traffic light.



THE INITIATIVES

PUTTING IT ALL TOGETHER WITH REAL RESULTS

Combining smart hardware and software into smart solutions creates real-world improvements in economic development, public safety, and environmental health.



With the famous Kirtland Air Force Base and Sunport, many Albuquerque residents likely assume much of our cargo distribution is by air. Instead, trucking is how about 90% of goods, materials, and products sold in stores get here. With smart transport and connected access, we can make it easier for goods created or received here to be distributed via self-driving trains or trucks. We can become a hub for both production and distribution of goods - made easier by smart and connected technologies.

We can attract companies to Albuquerque with Smart City technology. By adding smart transport to more than 250 acres of undeveloped land near the airport, we can make air cargo an attractive opportunity for companies.



PUBLIC SAFETY

Beyond providing alerts (e.g. gunshot detection or trip and fall incidents), smart spots can gather usage data at public points. We can monitor pedestrian and vehicle patterns to predict yield rates at intersections and crash rates. Crosswalks that frequently have crashes or other incidents can get extra on-site monitoring or design changes. Deploying and evaluating other design enhancements, e.g. flashing lighting or special paint, can help provide insight on their impact on the overall safety of the crosswalk.



ENVIRONMENTAL HEALTH

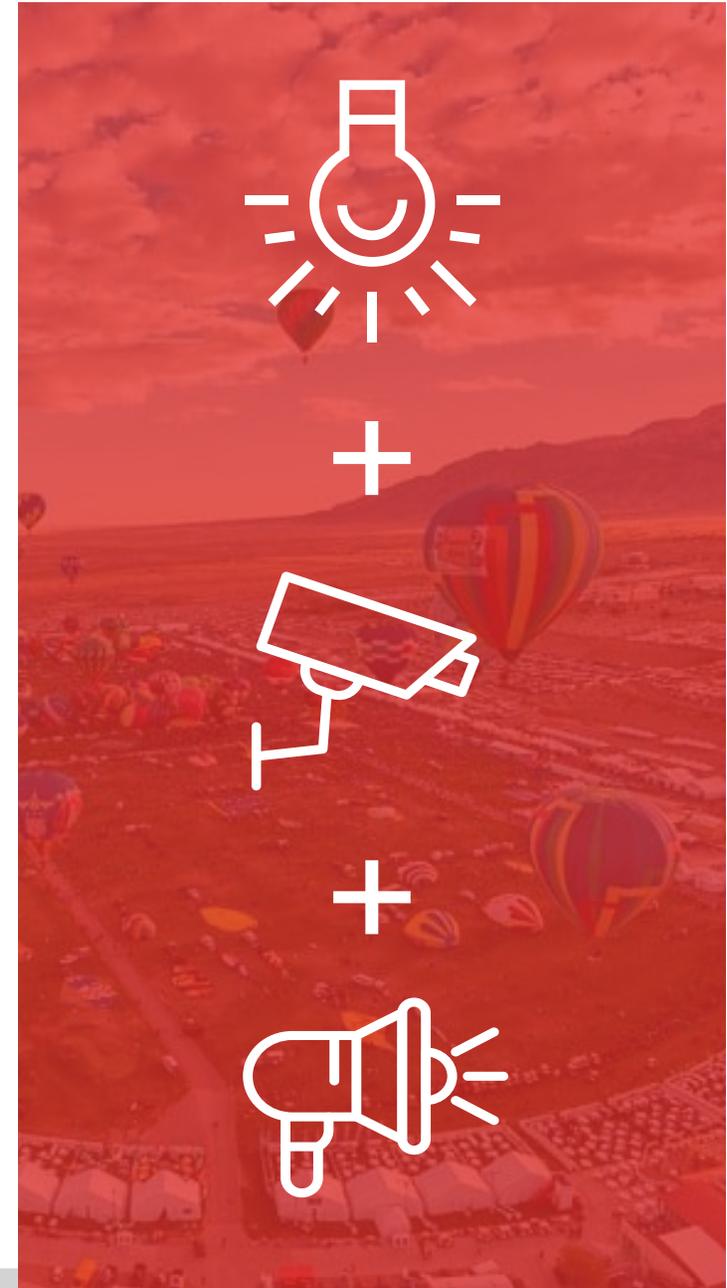
A large part of the appeal of Smart City technology is actionable data. By placing environmental sensors throughout Albuquerque, for example, we can get an ongoing, real-world understanding of criteria, e.g. pollutants. This can let us run comparative data and test other technologies. For example, is the net air quality better at bus stops when using electric buses or diesel buses?

SMART SPOT

MULTIPLE TECHNOLOGIES WORKING TOGETHER

 TRL1: TECHNOLOGY IDENTIFICATION  NEXT LEVEL: Q2 2020

- Turn any location into a connected, intelligent spot that provides real-time feedback and interaction to create a feedback loop between Albuquerque and its residents. The Balloon Fiesta Park, bus stops, Albuquerque parks, and mobile crime labs, are all opportunities.
- As an example: A bus stop shelter equipped with cameras, smart lighting, WiFi, and speakers. If the RTCC receives an alert or report, they can alter that location's lighting or warning sounds to the shelter loudspeakers.



SMART TRASH TRUCK



TRL1: TECHNOLOGY IDENTIFICATION



NEXT LEVEL: Q2 2020

- Trash trucks traverse almost every street in Albuquerque once a week.
- Smart cameras, sensors, and connectivity attached to trash trucks automatically spot and report problems, e.g. potholes or disabled street lights.



SMART CITY PARK

🕒 TRL2: LABORATORY PROOF OF CONCEPT 🕒 NEXT LEVEL: Q2 2020

- Improve safety and communication access in Albuquerque's 280 parks.
- Multiple Smart Spots deployed at various locations throughout a park provide improved smart coverage of a large area, e.g. the Balloon Fiesta Park. This may include improved WiFi coverage.



SMART BUS STOP

🕒 TRL1: TECHNOLOGY IDENTIFICATION ⌚ NEXT LEVEL: Q2 2020

- Smart lighting, cameras, and WiFi placed on bus shelters provides smart coverage and improves safety and communication access.



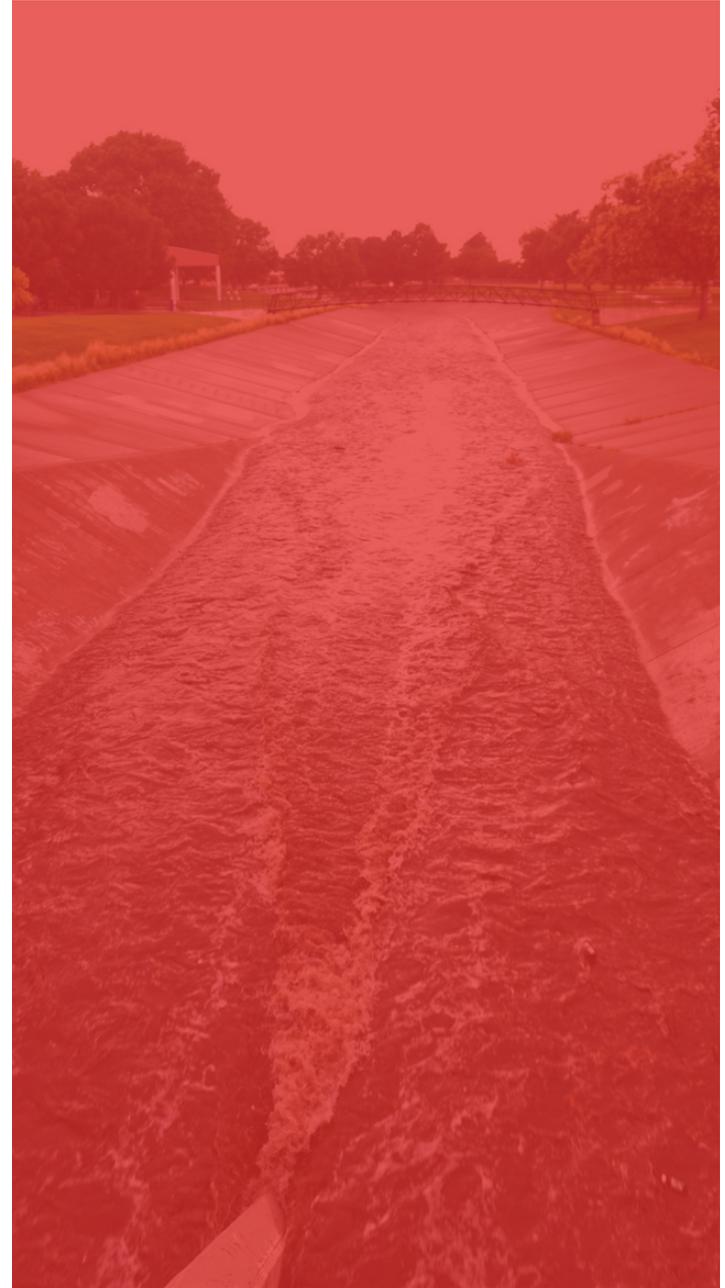
SAFETY & MOBILITY

USING TECHNOLOGY TO CREATE A SAFER, MORE MOBILE, MORE ENJOYABLE CITY EXPERIENCE

The goal of Smart City initiatives is not just to produce data, but to improve safety, communication, and mobility. By adding Smart City technology to key points in Albuquerque, we can use trash cans, bus stops, or crosswalks to identify ongoing issues or opportunities in an automated and intelligent way.

Equipping crosswalks with Smart City technology to capture pedestrian and vehicle activity can help us identify particular locations that might have a higher crash rate. They can also provide insight into what alternatives (e.g. flashing lights) may improve the safety of a crosswalk. Providing connected vehicles with signal light data could let the driver choose to avoid red lights by reducing speed.

Our goal is not to use this technology exclusively to enforce, but rather to help the decision-making process to create a safer, more mobile, and more enjoyable experience in Albuquerque.



PEDESTRIAN & VEHICLE BEHAVIOR

🕒 TRL1: TECHNOLOGY IDENTIFICATION

🕒 NEXT LEVEL: Q2 2020

- Key points, e.g. crosswalks and bus stops, provide pedestrian and vehicle patterns.
- Which crosswalks have the most incidents? Which crosswalks have the best proper usage?
- We can answer these kinds of questions and use the data to make informed decisions.



CRASH ALERTS

🕒 TRL1: TECHNOLOGY IDENTIFICATION

🕒 NEXT LEVEL: Q3 2020

- Equip crosswalks, lights, and other points to detect acoustic signatures such as squealing tires or crashes.
- Identification of high incident areas, fault type, and other actionable data, allowing resources to be deployed more effectively.



FLOOD ALERTS

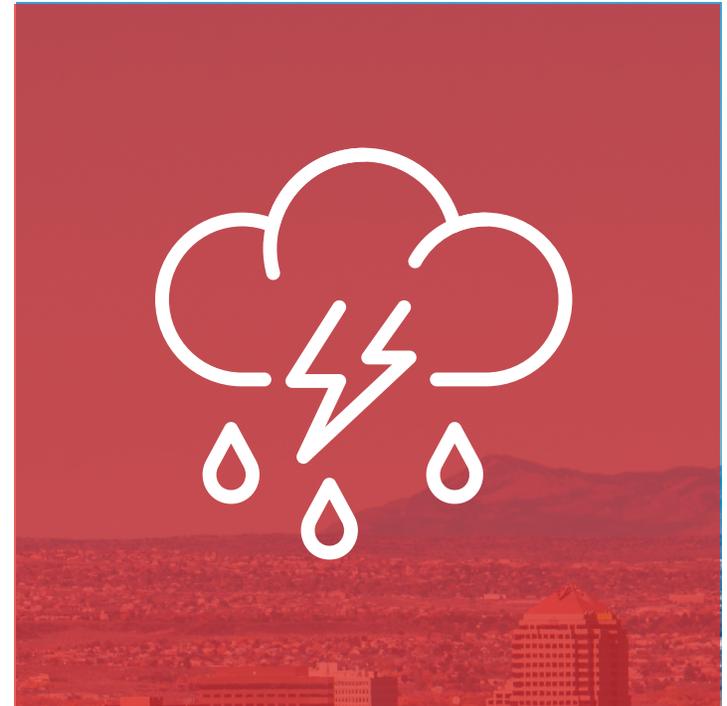


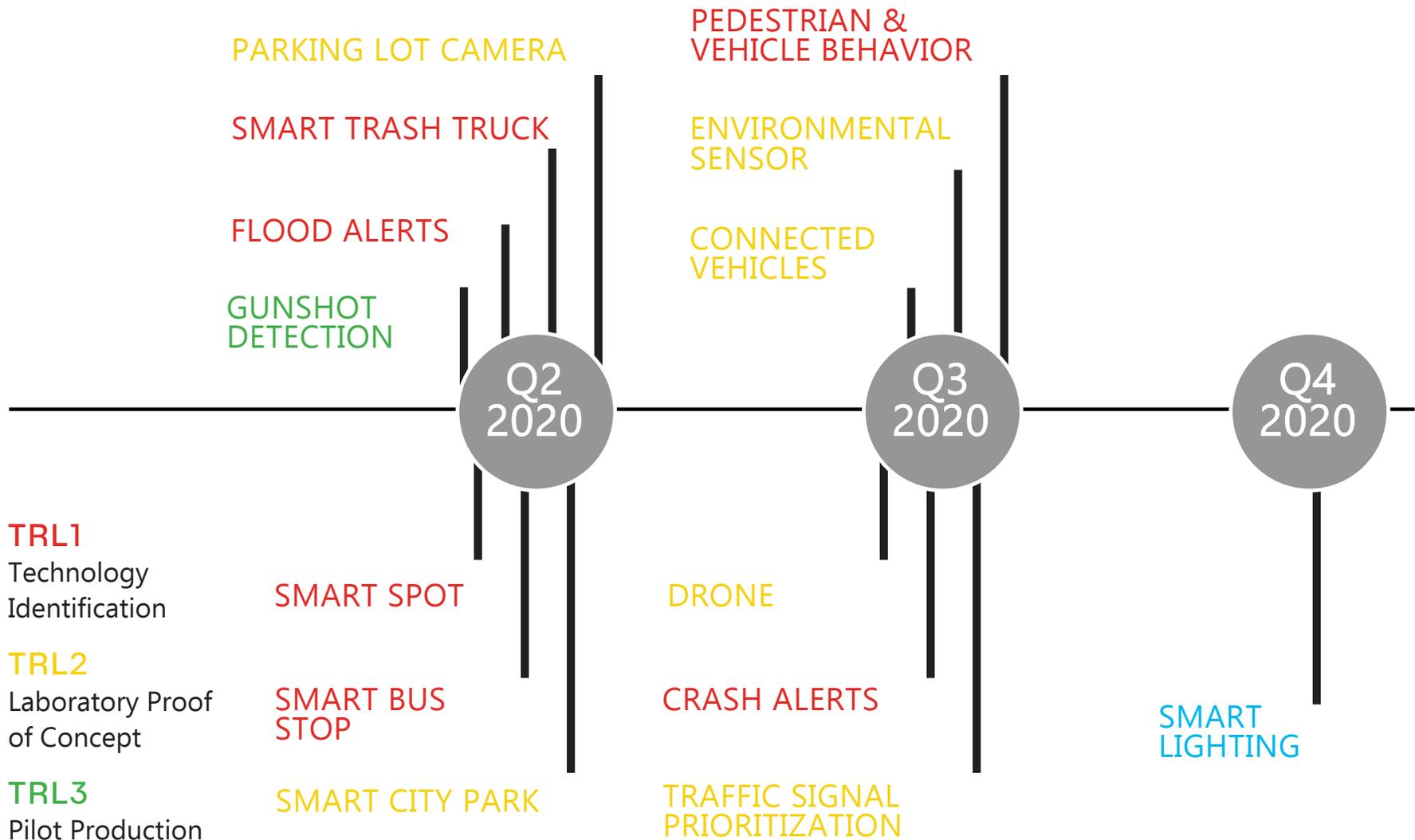
TRL1: TECHNOLOGY IDENTIFICATION



NEXT LEVEL: Q2 2020

- Drowning is the second leading cause of accidental death in New Mexico for ages 1 to 44 years old. Nearly 4,000 of these drownings occur during the summer months of June, July, and August.
- Smart devices placed at key arroyo overlook spots automatically detect the height and flow of water and then alert the public.
- Smart devices can employ AI algorithms to identify potential people in the water who may require assistance.





TECHNICAL READINESS LEVEL (TRL)

This chart shows the current anticipated time that the specified technology will complete its current stage of implementation and proceed to the next.

SMART ECOSYSTEM

**WORKING CLOSELY WITH CNM, UNM,
& PRIVATE SECTOR FOR TESTING**

To prepare for the Smart City revolution, we need to make sure that there are enough trained technicians and data analysts who understand how to build, deploy, use smart technology across cities. We are working with our local education partners to make Albuquerque the learning center for Smart Cities.

HIGHLIGHTS

- Partnering with Deep Dive Coders IOT Bootcamp (CNM Ingenuity, Inc., “Deep Dive Coding Bootcamps”, 2018, p. <https://deepdivecoding.com/>)
- Working with UNM, CNM and other agencies to form a joint Internet of Things (IoT) Committee to collaborate on and share ideas



TECHNOLOGIES & PARTNERS

PROUDLY PARTNERING WITH THE BEST
LOCAL & NATIONAL COMPANIES



WANT TO JOIN US?



SMART LIGHTING & SENSOR SOLUTIONS

BUILD A BETTER CITY WITH LIGHTING CONTROLS & INTELLIGENT SENSORS & CAMERAS

CIMCON empowers cities to use advanced sensor and control technologies to reach new heights in quality of life.

Deployed in more than 150 cities worldwide, our lighting management system improves fiscal strength by reducing energy costs and improves public safety by providing better lighting. Our smart city platform, which has received numerous awards for innovation, simplifies the use of sensors and cameras to improve city services. Our solutions instantly turn existing streetlights into a city-wide digital canopy of sensory and control points that empowers cities to improve energy usage, mobility, public safety, air quality, economic growth, and more.

978.320.4002
WWW.CIMCONLIGHTING.COM
SALES@CIMCONLIGHTING.COM

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Success

Event Counts

Left Object	1
Wrong Way	11

An aerial photograph of a parking lot with several cars. A red bounding box highlights a dark-colored car in the center-right of the frame. A smaller red bounding box is visible on the ground in the lower right area.



CISCO CONNECTED COMMUNITY INFRASTRUCTURE (CCI)

Cisco is proud to partner with the City of Albuquerque. Our solution is built on the Cisco Smart Cities platform, known as Cisco Connected Community Infrastructure (CCI), and leverages the extensive ecosystem of partners Cisco has built to provide a comprehensive system on Cisco Smart Cities and the Internet of Things (IOT). Smart Cities such as City of Albuquerque, use information technology, network communications including the Internet, and sensors to automate routine processes plus provide rapid and intelligent decision-making for creating dramatic efficiencies and cost savings in existing functions and processes.

As more cities and communities undertake digital transformation, Cisco continues to lead with powerful research, vision, technology, and business models all designed to guide our customers' journey.

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STRATEGIC DECISION SUPPORT SYSTEM

SITUATION AWARENESS AND OPERATIONAL INTELLIGENCE THROUGH THE CORRELATION OF DATA AND SENSORS IN REAL TIME

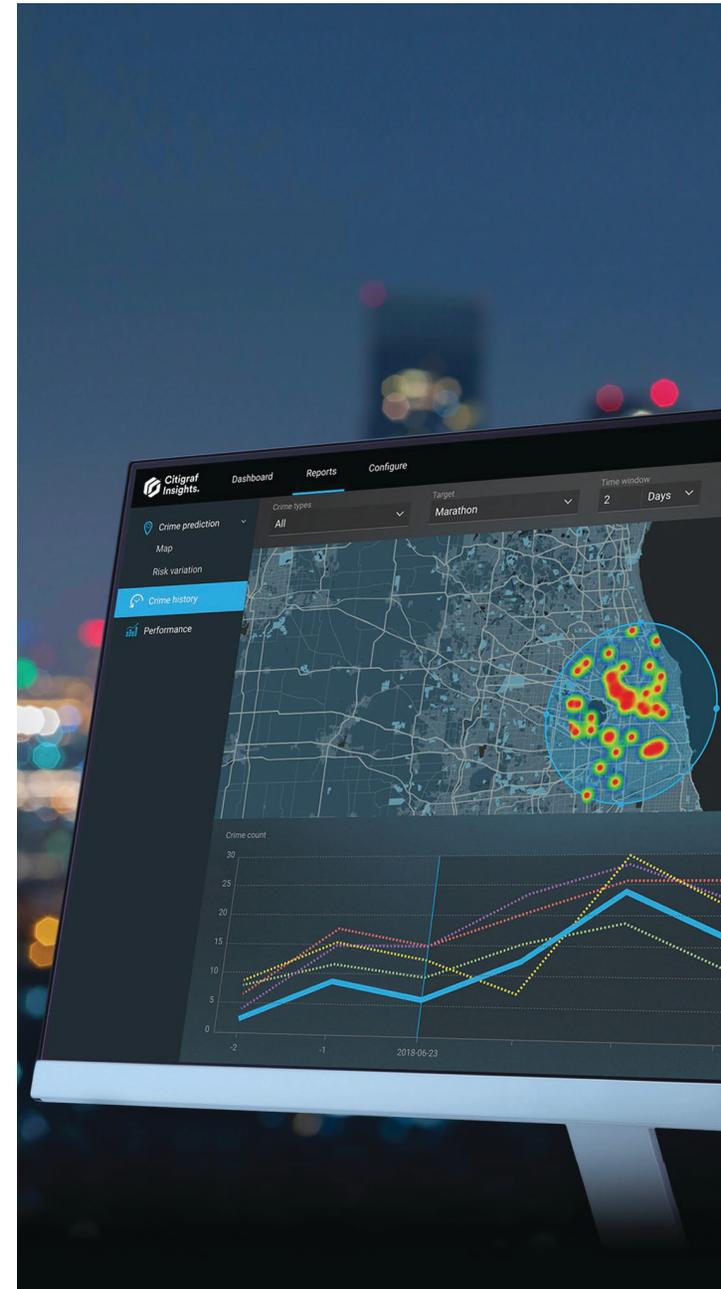
Genetec Citigraf ties together operational intelligence from a host of sources to improve decision making, collaboration and coordination as a key component of APD's state-of-the-art Smart Real Time Crime Center.

Integrating 911 calls for police service, law enforcement records, gunshot detection alerts, camera feeds, IoT sensors, smart lighting, and license plate recognition, Citigraf enables officers to respond more quickly to critical incidents through enhanced, real-time awareness and in-route intelligence.

Citigraf features a dynamic mapping system, displaying live and historical data, correlated with incidents, alerts and near proximity sensors to present a smarter, more effective common operating picture for informed decision making.

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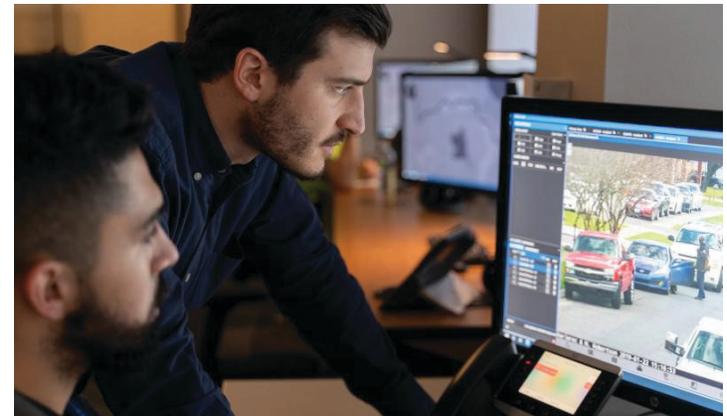
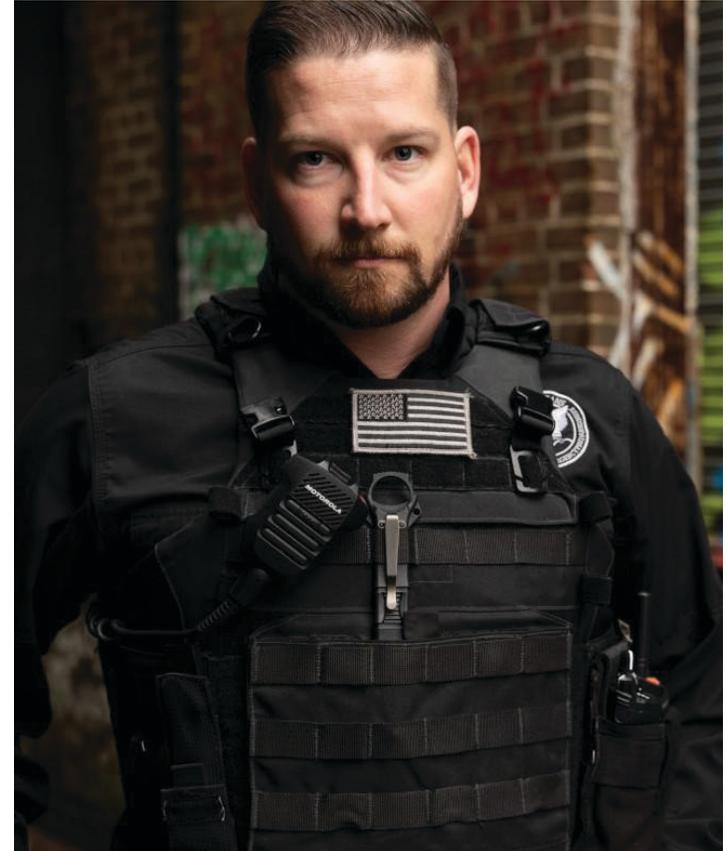
THE FUTURE OF PUBLIC SAFETY TECHNOLOGY CHALLENGED TO DO MORE WITH LESS

For over 90 years Motorola Solutions has provided communities with the tools to be their best in the moments that matter. In partnership with the City of Albuquerque we have contributed to the Smart Cities Initiative by combining the latest smart technologies with innovative solutions, including our P25 Digital Radio System, Vesta 911 for Dispatch, Video Security Analytics (VSA) and our License Plate Recognition (LPR) software technology.

Motorola Solutions' complete ecosystem of software and mission-critical communications is designed for the mission-critical needs of first responders and public safety agencies. We understand the challenges faced; we know the crimes you investigate. Our solutions better equip public safety agencies by combining intelligence software and powerful analytics to enable agencies to develop targeted leads to close cases efficiently and effectively. With the ability to integrate these technologies, agencies can accelerate information across workflows to operate more efficiently and gain deeper insights.

1.888.325.9336
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OUR VISION

RAPIDLY DEPLOYABLE DECENTRALIZED MESH NETWORKS

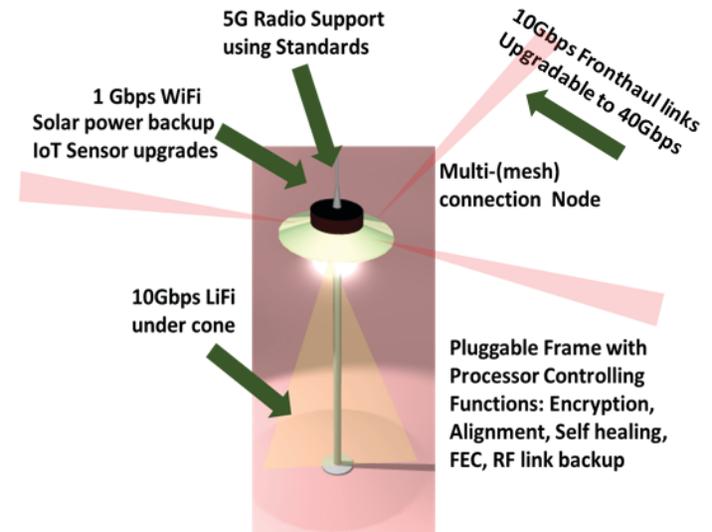
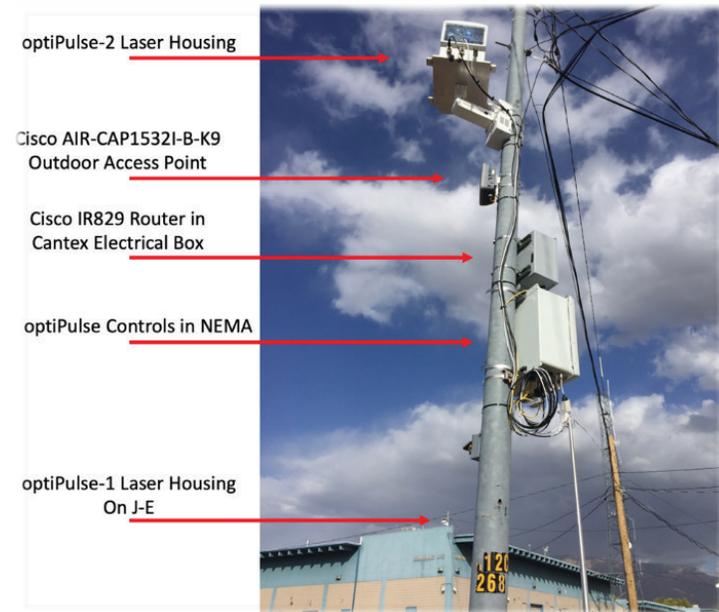
UNIQUE PHOTONIC LIGHT SOURCE LIGHTGRID™
ENABLES NEW 5G INFRASTRUCTURE AND PRODUCTS

OptiPulse has patented and demonstrated a paradigm shift in communications. It is an emerging photonics company focused on the communications market. OptiPulse expects to provide the flagship technology in a consortium providing safer, more reliable, and much more affordable, wireless, high-speed backhaul alternatives to competing RF devices.

Our strategy is to enable the entire gambit of connectivity to users from a single node of the mesh network. A 10Gbps backhaul multi-link node with WIFI, LiFi, backup RF links, with options for security, sensor packages, all disguised as a modern artistic streetlight. With its new inexpensive, compact Light source, OptiPulse can send more data with less energy safer than mmWave.

888.978.4943
INFO@OPTIPULSE.COM

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ORACLE

ORACLE SMART CITIES

BUILDING A BETTER CITY BEGINS WITH ORACLE AS THE FOUNDATION

For technology-inspired city leaders, the goals are to find ways to scale digital services and to create a better environment for both citizens and businesses.

Oracle is fundamental to enabling this change. We combine our data expertise with secure cloud capabilities to drive down the cost of growing, connecting and transforming cities into modern, citizen-centric urban centers.



1.800.392.2999
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URBAN INFRASTRUCTURE PLATFORM

HELP CITIES AND LARGE CAMPUSES IN THE DIGITISATION OF THEIR INFRASTRUCTURE

The company is a leading player in providing the digital platform for automating and optimizing the operations of the urban infrastructure which help cities deal with the increasing challenges of urbanization. With 80+ deployments across the globe, Quantela's key focus is to digitize and automate the way cities are operated and help improve citizen lives by enabling sustainable use of Urban Infrastructure.

Quantela is disrupting the model of financing smart city projects via outcome based models, that help Cities digitize their urban infrastructure operations thereby discovering new revenue streams as well as reduce their cost of delivery of City services.

650.479.3700

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CONNECTING SMART CITY DEVICES & APPLICATIONS USING SOLECTEK NEW SECURE WIRELESS TECHNOLOGIES

Solectek's mission for working together with the city of Albuquerque team of experts is to improve the City with new smart city applications. Our deliverable is to connect smart city devices and applications using Solectek new secure wireless technologies. The technology behind the project is smart city sensors and cameras connecting to many of Solectek's wireless radios series. Solectek's wireless solution will expand the City of Albuquerque's infrastructure through using low cost options. With over 30 years of experiences, Solectek will assist the City of Albuquerque overcome traditional barriers of working with multiple vendors by coordinating efforts to deliver positive outcomes for the city of Albuquerque smart city projects.



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THE FUTURE IS NOW.

HAVE YOU JOINED THE DIGITAL REVOLUTION?

Sology Solutions is a leading expert in digital transformation, digitizing spaces to make them intelligent and connected. We provide integrated technology solutions for public and private enterprise customers.

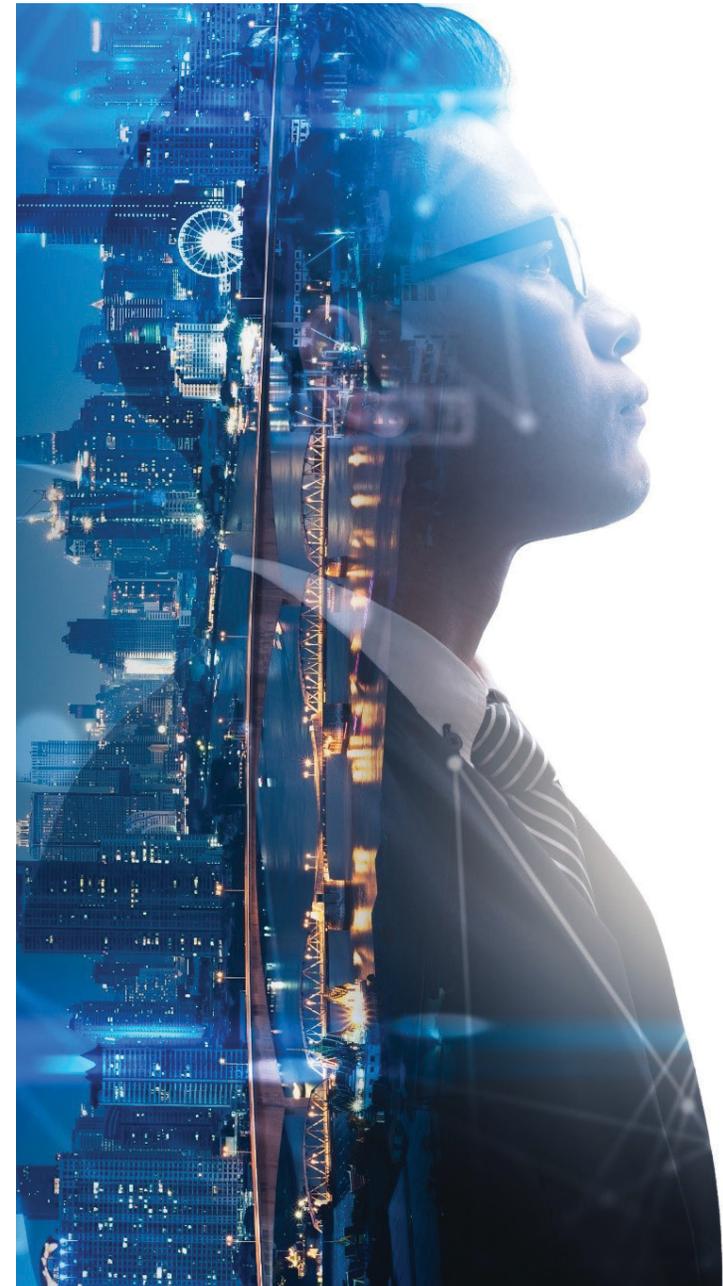
Sology Solutions has been at the forefront of the IoT movement, migrating customers from disparate systems to integrated networked-based solutions for real time data collection and response. We are a leader in smart communities and intelligent transportation, bringing a comprehensive team of experts to every project through our ecosystem of prominent manufacturers, vendors and other key companies.

As a technical services company, we are project managers and technology advisors offering communication networks and system design, implementation and integration.

The digital future is here. Let Sology Solutions take you there.

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SOLOGYSOLUTIONS.COM
SALES@SOLOGYSOLUTIONS.COM

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LPR USE IN PUBLIC SAFETY, TRAFFIC, & PARKING

Vehicle Plate Recorder: Captures the license plate of a vehicle passing in the field of view of an LPR camera and compares it in real time against a hot-list and stores LPR data on a central repository and sends to CKC.

Traffic Proximity & Planning: iDS has data analytics for traffic flow, volume, rate and lapse time.

Open Parking Management: LPR appliance to enforce valid parking of authorized vehicles time in, out, total duration & vehicles on property.

School Zone Speed Enforcement: Records vehicles speed, direction and distance from the appliance.

Smart Trash Truck: LPR appliance installed can register number plates of parked vehicles, street signs and other markings.

408.727.3904

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The collage illustrates the LPR-1040 appliance and its applications. It shows the physical device, examples of captured license plates from New York, California, and Germany, and two scenarios of use: parking enforcement at a barrier and traffic monitoring on a road. The bottom part of the collage displays data analytics, including a bar chart for 'Customer Visits Distribution (Entry & Exit)' and a 'Customer Density Map' showing geographic distribution of customer density.



PUBLIC SAFETY

TRANSFORMING PUBLIC SAFETY WITH SAFE CITIES TECHNOLOGIES

At Verizon, we believe that when it comes to quality of life, there is immeasurable promise and unlimited potential in smart communities technology. We provide solutions that help solve today's biggest challenges - like public safety, traffic and energy - and we are proud to partner with the City of Albuquerque to deploy one of our many public safety solutions.

Verizon's Real Time Response System (RTRS*) is a turnkey, cloud-hosted decision support solution that integrates large amounts of data from multiple sources and presents information in an intuitive, easy-to-navigate dashboard. By providing timely access to integrated data across public safety operations and city departments, RTRS improves situational awareness, speeds response to emerging threats, and enhances collaboration and resource management among agencies, cities and the private sector.

* In the instance of our RTRS solution deployment within the City of Albuquerque, Verizon has partnered with Genetec, leveraging their Genetec Citigraf™ solution.

[HTTPS://ENTERPRISE.VERIZON.COM/PRODUCTS/
INTERNET-OF-THINGS/SMART-CITIES-AND-
COMMUNITIES/REAL-TIME-RESPONSE-SYSTEM/](https://enterprise.verizon.com/products/internet-of-things/smart-cities-and-communities/real-time-response-system/)

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WESTWIND

END TO END TECHNOLOGY SOLUTIONS

**SOLVING TOMORROW'S CHALLENGES WITH
INNOVATIVE SOLUTIONS TODAY**

Westwind is a proud Albuquerque based firm, and we are pleased to support our city's smart city initiatives. Our work with emerging technology manufacturers comes from our core IT offering we've been providing to our local and national customers alike for over 25 years.

Our partnerships with manufacturers who are leading the way with smart solutions focused on Public Safety, Environmental Health, AI, and large-scale data analytics give Albuquerque the local and experienced partner it needs to overcome future challenges.

Westwind is eager to help our community solve real-world problems today using the best-in-class technology providers available.

505.345.4720
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XenaTech
Software Integration Services

XENATECH

INTELLIGENT TRANSPORTATION SOLUTIONS

XenaTech Software Integration Services has over 30 years' experience in Intelligent Transportation Solutions providing unparalleled systems integration, network, AVL, wireless, and mobile expertise. XenaTech provides Transit, governmental agencies, and commercial entities with services and solutions across the United States. Current services include:

- Mobile Tracking and Computer Aided Dispatch
- GPS/AVL, Geofencing, Telemetry, Driver Behavior
- Transportation Station/Platform/Stop technologies
- Transit Operations Command and Control
- Telecommunications and systems integration,
- IT Management service - hosted data center, and infrastructure
- Custom software development
- Database architecture and development
- Project management

XenaTech has been providing integration and hardware expertise to the city to help overcome certain technical challenges and to add capabilities to the Smart City Concept.

1.833.936.2832

WWW.XENATECH.COM

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