



A Smarter, Safer, More Connected Park

Parks and green spaces are hubs of community life. They're also a big responsibility for municipalities, costing billions a year to keep safe, clean, and functional. Many towns and cities are seeking new ways to deliver exceptional outdoor experiences within tight operating budgets.

Green space is essential for communities that want to attract and retain residents. Park areas and walking and jogging trails were among the top five most desirable neighborhood features for U.S. homebuyers in 2021.¹ They're also widely recognized as key to citizen health and wellbeing, providing vibrant sites for recreational activities and public events.

In 2018, the 100 largest U.S. cities spent a combined \$7.5 billion to operate and maintain their more than 22,000 parks.²

With budgets shrinking and funds redirected toward economic and community recovery in the wake of COVID-19, it's getting harder for many municipal governments to service their park spaces — which can ultimately keep people away and reduce public safety.

Ubicquia's multi-purpose, integrated smart city platforms deliver a rich set of capabilities to make park operations more efficient and make parks themselves safer and more enjoyable for all residents.

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— The Trust for Public Land

¹ National Association of Home Builders. [What Home Buyers Really Want](#). Special Study for Housing Economics. 2021.

² The Trust for Public Land. [2018 City park facts](#). 2018.

³ The Trust for Public Land. [2018 City park facts](#). 2018.

More Control at Lower Costs

Combining smart city technologies such as video cameras and microphones with edge AI, Wi-Fi, lighting controls, air quality monitoring (AQM) and other applications gives municipalities a whole new toolset to manage parks with precision and efficiency.

Enhanced park experience

- Make Wi-Fi available to residents throughout city parks
- Monitor visitor traffic to understand park usage

Optimized operations

- Dispatch resources more efficiently based on conditions
- Monitor the cleanliness of parks in real-time

Public safety assurance

- Combine sensors and AI to ensure parks are used safely
- Ensure spaces are well lit for visitors

Community wellbeing

- Provide outdoor spaces for a wide range of activities
- Monitor environmental factors that affect public health

Ubicquia transforms public parks and outdoor spaces into connected sites that generate real-time insights.



A Smart Park in Minutes

With the Ubicquia integrated platform, you can enrich your visitors experience with public Wi-Fi, smart lighting, and environmental analytics. Our UbiHub AP6 is the world's first streetlight Wi-Fi 6 access point, and UbiHub AP/AI is the first to also integrate edge AI processing. With UbiVu, you can monitor the applications using a single-pane-of-glass.

UbiHub AP6

Combined Wi-Fi and lighting control:



Flexible, versatile Wi-Fi

- Unique antenna design maximizes coverage
- Support for more than 1,000 connections — with whitelist/blacklist access control
- Analytics to track bandwidth consumption

Precise lighting control

- DALI and DALI-2 dimming protocols enable optimized power consumption for savings
- Precise scheduling and optional activation to switch lighting on and off as needed

UbiHub AP/AI

All the features of UbiHub AP6 plus:



Powerful edge analytics

- 8-core neural AI processor
- Dual directional microphones
- Dual 4K cameras
- 15 days of video storage

Support for other smart city applications

- Power-over-Ethernet (PoE) port enables easy integration of third-party devices
- Single platform for multiple applications

UbiSmart AQM

Micro-climate insights for citizen health:

Wide range of metrics

- Air quality index (AQI): O₃, CO, SO₂, NO₂
- Particulates (PPM): 1.0 (smoke), 2.5, 10.0
- Temperature, pressure, humidity
- Street-level noise: dB

UbiVu

Centralized cloud-based management:

Single view of all smart city data

- Simplifies device set-up and monitoring
- Displays video streams
- Streamlines access to data
- Provides centralized management



Your Smart City Springboard

Ubicquia's single plug-and-play platform for park-enhancing applications lets you leapfrog incremental technology evolution and get straight to benefiting from the full range of smart city capabilities.

Safe, attractive community spaces

According to the National Recreation and Park Association, greater park usage creates a stronger sense of public safety and security.⁴ UbiHub AP/AI makes it easier to ensure park spaces are clean, safe, and inviting for residents.

Sustainable urban environments

Ubicquia's smart lighting controls reduce GHG emissions by optimizing your lighting through dimming and scheduling. They also support dark sky initiatives and habitat-friendly lighting for plants and animals. Adding AQM generates valuable data so citizens can make informed choices about their outdoor activities.

Operational savings

Real-time, sensor-based monitoring reduces the need for human oversight of parks. This allows cleaning, maintenance, and repair resources to be deployed where and when they are needed so time and money are spent on the right tasks at the right times. Over time, analytics insights will reveal trends to support future community and resource planning.

Stronger community connections

Wi-Fi-enabled parks allow citizens to be connected wherever they go. They create opportunities for municipalities to engage with residents online in real-time via push notifications, branded apps and more — forging stronger ties.

Visit us online or contact us today to learn more at ubicquia.com

⁴ National Recreation and Park Association. [Issue Brief: Creating Safe Park Environments to Enhance Community Wellness.](#)