Intellistreets is the only end to end street level solution that provides seamless connectivity to the digital backbone of a smart community.
What Is Intellistreets?

Intellistreets™ is a patented wireless disruptive technology that crosses all traditional boundaries. It is the new heartbeat of outdoor and indoor public spaces.

With public and private sectors moving quickly toward outdoor LED light change-outs, fiber and small cell installations, Intellistreets seamlessly adds:

**IoT Data Network, Sustainability Management, Security, and Entertainment**

The Intellistreets wireless common operating platform is a single, low cost, scalable multimedia network. For the first time in a cloud based architecture, cities, campuses and malls are able to collect all forms of data, make decisions, and “talk” directly to pedestrians and motorists – by street, district or area.

In the world of Big Data and the IoT, Intellistreets is the cloud based engine necessary “at edge” to leverage the most valuable real estate in the city; the lamp post. With no competitors in the space of wireless bi-directional multimedia, the Intellistreets platform can generate revenue and pay for itself quickly.
**Intellistreets System Overview**

**Sustainability:**
Intellistreets is the most effective way to maintain and conserve natural and human resources needed to protect our country and reduce our carbon footprint.

- Intellistreets LED Streetlights can achieve up to 70% energy reduction over existing sources.
- Intellistreets LED Streetlights are able to save valuable energy through adjustment of lighting levels, available via programming or on-demand.
- Intellistreets has multi-patented lighting and thermal management that can extend system life over competitors with on-board sensor input analysis.
- Accurate reporting and monitoring of streetlighting systems saves maintenance, energy and administration costs.

**Security:**
Intellistreets offers the only wireless mesh system using bi-directional, multi-media communication between individual luminaires and the web-based user interface.

- Audio storage and playback capability for mass notification concealed in light poles or light fixtures.
- Egress wayfinding - Only Intellistreets offers pre-programmed simultaneous routing via sequenced lights, graphic banners and audio.
- Encrypted control interface provides robust security against hacking and misuse.
- Real time dial-up lighting control and multimedia features with mobile devices

**Community Engagement:**
This system is an integral component to the environmental streetscape, enhancing the pedestrian experience through a wide variety of multimedia options.

- Dynamic Lighting - Wireless control of color-changing accessory lights facilitates the transformation of an ordinary space for a special event.
- Intellistreets facilitates the use of audio broadcast from playlists. The simple drag-and-drop interface acts like a standard MP3 player.
- Intellistreets wireless full range audio eliminates conduit and cabling costs; wired audio systems are out dated.
Use Cases & Vertical Markets

Environmental Awareness
- Audio Recording
- Visual Recording
- Sensors/Data Collection Point
- 2-Way Street Level Communication
- Weather, Air Quality and Flood Sensors

Information
- Audio Notification
- Flasher Directional Wayfinding
- Flasher Notification
- Incident specific messages LED banner triggered by sensor or schedule

Community Advantages
- Added Safety & Security
- Holiday Lighting Control
- Vendor Cart & Musician Receptacle
- Facade or Feature Color Flood lighting
- Extended Community Dwell Time
- Music Playback
Intellistreets / Help When It’s Most Needed

- Early Warning
- Evacuation Announcements
- News Updates
- Locate People In Distress
- Emergency Call Stations
- Numbers To Call
- Wayfinding
- Flashing Location Indicators
- Shelter Locations
- Find Food, Water, Fuel
Intellistreets Luminaires / Full System Features

- **Lighting Control**
  - Photocell Control, 0-100% Dimming, On-Demand Light Levels

- **Wireless Mesh Transceiver**
  - Web Based Wireless Control, Dual 2.4 GHZS Radios

- **Image Sensors**
  - 180° Cameras, Proximity Sensors, Pedestrian Counter, Homeland Security

- **RGBA Notification**
  - Indicator Light (Red, Green, Blue, Amber)

- **Controlled Receptacle**
  - Holiday Lighting, Vendor Carts

- **Concealed Placement Speaker (CPS)**
  - Music, Alerts, Announcements

- **Wi-Fi System**
  - (4) Concealed Wi-Fi antennas to provide public Wi-Fi (Wi-Fi AP Concealed Pole Base)

- **Digital Signage**

- **Dynamic Lighting**
  - Color Changing Flood Lights

- **“Push Blue” Emergency Call Station**
  - Emergency Call Station

- **Environmental Sensors**
  - CBRNE & Seismic, Water Detection
Intellistreets Luminaires / Standard System Features

**Lighting Control**  
Photocell Control, 0-100% Dimming, On-Demand Light Levels

**Wireless Mesh Transceiver**  
Web Based Wireless Control, Dual 2.4 GHZS

**RGBA Notification**  
Indicator Light (Red, Green, Blue, Amber)

**Controlled Receptacle**  
Holiday Lighting, Vendor Carts

**Concealed Placement Speaker (CPS)**  
Music, Alerts, Announcements
**Lighting Control**
With patented wireless technology to communicate with individual luminaires, streetlights are able to save up to 70% in energy consumption and extend life to 10 years and beyond. The system provides unique flexibility in dimming and on-demand adjustability. Available in multi-media and on-off dim (OOD) formats.

**Wireless Mesh Transceiver**
With a centralized interface and wireless transceivers on each pole, the system allows for bi-directional communication between streetlights and other integral sensors. The mesh topology also provides self-healing for the network should one or more light poles become disabled. Available in multi-media and on-off dim (OOD) formats.

**RGBA Notification**
Visible 24 hours a day, with four selectable colors, the LED indicator provides customized indication for egress routes, notifications and managing traffic conditions. Standard for multi-media format.

**Concealed Placement Speaker (CPS)**
A fully integrated speaker within each multi-media luminaire provides audio at the street level for ambient music, pre-recorded announcements, dial-up mass notification and advertising. Standard for multi-media format.

**Controlled Receptacle**
A fully integrated controlled receptacle to allow power for holiday lighting, vendor carts, and performance equipment.
Full System Features (Optional)

**Digital Signage**
The digital banner is a 2-sided LED display that provides street level visual communication. Custom graphics can be used for advertising, community announcements and real-time alert notifications. Digital street-signs allow for better traffic management.

**Dynamic Lighting**
Wireless control of color changing lights facilitates the transformation of an ordinary space for a special event without additional equipment.

**“Push Blue” Emergency Call Station**
The Push Blue emergency notification button is a communication device designed for the public to easily call for help. Available as a stand alone unit or mounted to a pole, utilizing the Intellistreets audio notifications and LED indicator lights.

**Image Sensors**
180 degree image sensors are concealed and offer a unique method of gauging pedestrian traffic, providing accurate data by the minute, hour or day. This is a powerful tool for tenants, landlords and public safety officials. Typically deployed back-to-back as 360 degree viewing.

**Environmental Sensors (Sensor location based on needs - Arm Mount, Internal Base Mount)**
Environmental sensors can detect and report the presence of water, wind, heat, and lethal gas.

**Wi-Fi System (Stealth Wi-Fi Systems)**
(4) Concealed Wi-Fi antennas to provide public Wi-Fi, and a Wi-Fi Access Point in the pole base.
Intellistreets Luminaires / Integrated Luminaire (Examples)
Post Top Module (PTM)

The PTM is designed to be mounted on a new/existing pole, or wall mounted. Initial design is for use with LED luminaires, but can be adapted to other light sources with some limitations. The PTM utilizes the Intellistreets Electronic Control Module (ECM). The ECM is a compact wireless device that provides a full set of lighting control, monitoring, and multimedia options for operation of LED luminaires.

Core Features Include:

- Ability to control lighting (patented energy management and LED optimizing software)
- Connect LED way-finding devices and DMX controlled lighting
- 360 degree sound system for background music
- Message playback and paging capabilities
- Input connections for a variety of environment sensing devices
- 360 Degree Cameras

A cloud based web interface and content storage system is standard allowing a secure yet robust portal for accessing all the features of the system. Secure access to the module is only available through the Intellistreets Virtual Command Center portal.
Intellistreets Post Top Module (PTM) / Full System Features

- **Lighting Control**
  - Photocell Control, 0-100% Dimming, On-Demand Light Levels

- **Wireless Mesh Transceiver**
  - Web Based Wireless Control, Dual 2.4 GHZS

- **Image Sensors**
  - 180° Cameras, Proximity Sensors, Pedestrian Counter, Homeland Security

- **RGBA Notification**
  - Indicator Light (Red, Green, Blue, Amber)

- **Controlled Receptacle**
  - Holiday Lighting, Vendor Carts

- **Concealed Placement Speaker (CPS)**
  - Music, Alerts, Announcements

- **Digital Signage**

- **Dynamic Lighting**
  - Color Changing

- **“Push Blue” Emergency Call Station**
  - Emergency Call Station

- **Environmental Sensors**
  - CBRNE & Seismic, Water Detection

- **Wi-Fi System**
  - (4) Concealed Wi-Fi antennas to provide public Wi-Fi (Wi-Fi AP Concealed Pole Base)

- **Post Top Module (PTM)**
  - Enables new and existing light poles to get smart
Intellistreets Post Top Module (PTM) / Standard System Features

- **Post Top Module (PTM)**
  Enables new and existing light poles to get smart

- **Lighting Control**
  Photocell Control, 0-100% Dimming, On-Demand Light Levels

- **Wireless Mesh Transceiver**
  Web Based Wireless Control, Dual 2.4 GHZS

- **RGBA Notification**
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- **Concealed Placement Speaker (CPS)**
  Music, Alerts, Announcements

- **Controlled Receptacle**
  Holiday Lighting, Vendor Carts
The Intellistreets Digital Banner is a rugged IP65 rated LED display, delivering excellent brightness and contrast levels even in direct sunlight. Designed to resemble a typical double-sided vinyl banner the display system includes all components necessary to deliver on-demand messaging to the typical street corner.

Key components of this system include:

- 4mm pitch LED display
- Video Playback Module
- Intelligent Lighting System
- Web-based Virtual Communication
Push Blue Emergency Call System

The Push Blue Call System is an emergency communication device designed for the public to easily call for help when needed. With a microphone and speaker on board, the button allows for quick, wireless two way communication to get the help you need.

Features & Benefits

- Highly visible backlit faceplate
- Integrated microphone
- Cast stainless steel design
**Push Blue Emergency Call System**

1. User pushes illuminated button
2. Pre-recorded announcement is heard over the speaker in the PTM
3. Call is made to a defined and secure phone (Callers Voice Heard)
4. The PTM’s notification light flashes blue & the sound system plays a pre-stored message
5. The first responder answers and their voice is heard over the loudspeaker
6. The caller speaks hands free
7. Call terminates when first responder disconnects
Wi-Fi System (Stealth Wi-Fi Systems)

(4) Concealed Wi-Fi antennas to provide public Wi-Fi, and a Wi-Fi Access Point in the pole base.

Features & Benefits

• Integrated Wi-Fi antennas
• Basically invisible on pole when installed
• Water tight housing
• Cast plastic design
Dynamic Flood Lighting

The IntelliStreets system can wirelessly control dynamic color changing lights which will facilitate the transformation of an ordinary space for a special event without additional equipment.

Features & Benefits

- Dynamic Color Change or Tunable White
- Facade Lighting
- Wireless App Control
- On/Off/Dim Wireless App Control
Image Sensor / Camera

The Intellistreets camera provides a platform to assist institutions in protecting its citizens and critical infrastructure. It is the most cost effective street level surveillance solution. It is also self contained 4G solution with at edge processing that’s integrates seamlessly into existing systems.

Key components of this system include:

- Image sensing
- Proximity sensing
- Pedestrian counting
- Homeland Security
- “Incident Camera” with at edge processing
- Augmentation to existing surveillance system
- 48 HR recording / Instant access to recordings
- Street level view
- Web based with wireless control
- Integrates into current VMS & delivered to command center
- Deployed back-to-back to provide 360° degree viewing
User Interface Design

The Intellistreets system and database supports emergency management with instant stored and recalled messages, on-demand uploading of graphics and automatic messages triggered from sensors like weather, water or air quality.

Features & Benefits

- Control Scheduling on the go
- Remote Automation
- Real Time Emergency Management
Intellistreets Integrated Products
Technology Tower

Location - Eastern Michigan University, Ypsilanti, MI
Designed by - ICID (A division of Illuminating Concepts)

Features & Benefits

- Technology monument features
- Finish sand blasted galvanized, primed and painted hinged removable
- Graphic panels- with print
- Easy drop in passage for graphic panel
- 3 Down lights
- 3 Doors at the base with puck lock adapter
- Air spring open assist doors
- Center mast pole for mount hardware at all 3 levels
- Center mast pole has 4 inch conduit pass threw
- Hand hole pass threw on internal structure
- Circular bolt hole pattern for pier mount.
- Custom green feather flame inspired graphic
Historic Small Cell Tower Enclosure

Location - Eastern Michigan University, Ypsilanti, MI
Designed by - ICID (A division of Illuminating Concepts)

Features & Benefits

- 32ft Painted Steel Pole With Hand Holes Black Finish
- Small Cells Antenna To Pole Transition Cover
- Integrated Small Cell Antenna Mount
- Contemporary Luminaire
- PTM With Camera* And Arm Mount
- PTM Wireless Gateway With Arm Mount
- Push Blue Emergency Call System
Intellistreets Installation / Rockhampton, Australia
Intellistreets Installation / Lansing, Michigan
Intellistreets Installations (US & International)

- Herndon, VA
- Smyrna, DE
- Gulfport, MS
- Lansing, MI
- St. Cloud, MN
- Greenville, NC
- Bloomingdale, IL
- Oxonia, MI
- Auburn Hills, MI
- Farmington Hills, MI
- Asbury Park, NJ
- Las Vegas, NV
- New Orleans Superdome, LA
- Navy Pier Chicago, IL
- Spicer, MN
- Carmel, IN
- Royal Oak, MI
- Mooresville, NC
- Boston, MA
- Rockhampton, Australia
- Sony Studios, Culver City, CA
- Henry Ford Health System, Detroit, MI