

Powertech Labs' Intelligent City Accelerator

ADVANCING COMMUNITIES WITH THE POWER OF THE INTERNET OF THINGS

Cities are beginning to embrace technology to create safer, more comfortable communities for both living and working. By adopting Internet of Things solutions, cities can put technology to work in traffic pattern monitoring, air quality analysis, community safety, and bylaw enforcement in a way never before imaginable. All this requires mapping the right technologies with an integrated solution that is deployable with low risk and high success.

The Powertech Labs Intelligent City Accelerator provides some of the most advanced and complete technology integration facilities in North America designed to reduce deployment risk of advanced operational technologies. By integrating sensors and communication solutions, all the way to back-end data analytics, communities can see the technology working in a real environment before embarking on pilots or field deployments.

flexible solutions for your city's needs

INTELLIGENT CITY ACCELERATOR PROVIDES A TOTAL INTEGRATED SOLUTION

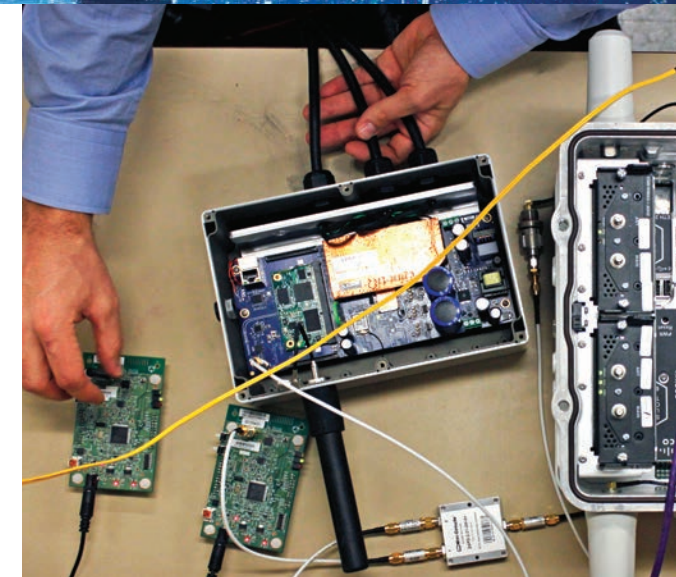
COMMUNICATION SOLUTIONS

Powertech Labs' industry-leading communication integration test beds allow users to understand how different technologies from many vendors can work seamlessly together. With Powertech's expertise in a wide range of communications, designs can be developed on the bench and tested in a simulated field deployment.

- Cisco 802.15.4 Mesh Networking
- WiMAX
- Cellular
- Satellite
- Fiber Optic

INTEGRATED SOLUTIONS

Technologies are only as good as the solutions in which they are deployed. The Intelligent City Accelerator utilizes Powertech Labs' background in operations technology to understand the core applications needed and the technologies to make them possible. Powertech Labs has developed a leading-edge facility featuring technology from Cisco, Itron, Schneider Electric, Cooper, Clipper Creek, and many others to provide the best place to integrate and prove out solutions.



INTEGRATION METHODOLOGY

The Intelligent City Accelerator focuses on not just providing technology solutions but providing a methodology that reduces risk of deployment to the real world.

By first focusing on understanding the needs, Powertech is able to build a real configuration on a test bench to work out technology issues. From there, the technology is moved out to a simulated real-world environment to allow for more risk reduction by understanding the deployment realities.

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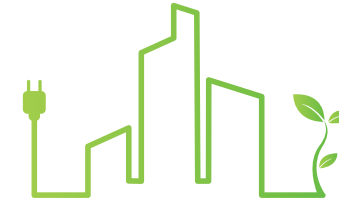
LED LIGHTING

With multiple vendors in our labs, the Intelligent City Accelerator provides validation and integration of LED Lighting solutions for energy efficiency and other advanced functionality.



WIRELESS MESH

The Intelligent City Accelerator has a campus-wide 802.15.4 mesh network for integration of new sensor devices to demonstrate a lower cost system that is purpose built for the Internet of Things.



BUILDING ENERGY SOLUTIONS

With the use of an industry-leading calculator, we are helping improve and finalize the ROI calculations for building energy efficiency targets. This capability provides greater energy savings with a strong environmental impact.

IOT SOLUTIONS

- WIDE AREA NETWORK DESIGN
- WIRELESS MESH INFRASTRUCTURE
- SENSOR DEVICE INTEGRATION
- LED STREET LIGHTS
- ENERGY EFFICIENCY SOLUTIONS
- DATA ANALYTICS
- OPEN ADR DEMAND SIDE MANAGEMENT
- BUILDING ENERGY MANAGEMENT



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