



## Smartrek Technoloiges [smartrek.io](http://smartrek.io)

### **Company:**

Smartrek offers easy connectivity in complex and challenging environments for the next generation of low power IoT devices. Established in 2011, Smartrek Technologies is the creator of Spidermesh, a patented mesh radio technology. Spidermesh addresses key challenges of existing wireless technologies for massive IoT such as quality of service, ease of installation and use, power consumption, range, scalability and equipment costs. It also eliminates connectivity fees for lowest long term recurrent fees.

Smartrek have 2 main product lines:

- Radio modules & Spidermesh communication protocol
- Atrax product line: 30 different IoT devices with online dashboards for various applications such as the monitoring of water pressure and flow, tank level, wells level, air quality, remote control, etc.

The company's target markets are smart cities, utilities/municipal, infrastructures and the mining sector.

### **Main business areas:**

- Wireless
- IoT
- Smart cities
- Water/waste water

### **Tech areas for collaboration with Korean companies:**

- Applications related to low-power IoT devices
- Wireless technologies improvement and collaboration
- Advance metering Infrastructure
- Air quality monitoring (inside/outside)
- Water/Wastewater

### **Competitive advantages:**

Spidermesh, our mesh wireless protocol, eliminates the packet collision issues on the network level in mesh wireless communication. Without packet collision at the network level, our protocol can be extremely low power even with 10,000's wireless devices on the same network. It will take up to 30x less energy than a typical mesh. It is fully deterministic in latency, network performance and power consumption. It can also extend to 100 hops and can connect virtually unlimited number of devices on the same network.

### **Major clients/partners:**

- H2O innovation
- Ew2
- Mckim & Creed
- City of Knoxville
- Veolia Canada

### **Technology development and international partnerships:**

- Smartrek developed & commercialized a cutting-edge radio protocol.
- Commercialized a complete solution for monitoring and control.



- Smartrek developed, with 4 other Canadian companies, a preventive maintenance system for water pumps in mines in an open innovation model.
- We are comfortable working in an open innovation setup.

**Meeting objectives:**

Develop new business partnerships, find new applications for our radio protocol, develop new products/technologies, find new market for our current products.