



ABOUT ADELOS

Adelos, Inc. is an applied research and product development company specializing in fiber optic sensor systems for a range of advanced U.S. government and commercial applications.

Founded in 2006, Adelos manufactures and sells the Phosonic digital fiber-optic sensor system. A leader in defense and security applications, Adelos provides a variety of licensing and technical integration solutions.

Adelos, Inc. is part of the S&K Technologies, Inc. family of companies. S&K Technologies, Inc. was formed in 1999 with a vision to become one of the preeminent professional services firms in the country and to provide opportunity and prosperity to the people of the Confederated Salish and Kootenai Tribes (CSKT).

As a wholly-owned corporation of the CSKT of the Flathead Nation, S&K Technologies is part of an extensive economic development plan established by tribal leadership. Like all tribal businesses, our success has a direct and meaningful impact on our shareholders—the 7,000 plus members of the Tribes.

PHOSONIC™ SERVICES

With the Phosonic™ product we provide the following services to our clients:

- ☑ Data analysis and interpretation
- ☑ Installation and maintenance
- ☑ Data simulation and modeling
- ☑ Sensor integration (with other sensors) and network architecture

PHOSONIC™ PRODUCT

Based upon patented U.S. Navy technology in digital fiber optic sensor arrays, the Phosonic™ sensor system utilizes an opto-electronic interrogator and fiber optic cable to detect pressure waves at specific frequencies (Rayleigh Optical Scattering). It processes and analyzes these digital signals, and provides real-time detection, classification, localization, and communication of specific threat targets.

Based on its history of performing advanced surveillance and intelligence gathering for national security projects, Phosonic™ has established its superiority in protecting critical infrastructure and providing the first line of defense for multi-layered security applications.

Phosonic™ is ideal for advanced border security applications, multi-layered perimeter security applications, sensor-to-sensor cueing applications, intelligence and surveillance scenarios, and other special requirements.

Phosonic™ provides the what, when, and where information in continuous, real-time feeds associated with a wide variety of configurable and customizable intrusion scenarios.

Each meter of fiber is a virtual, independently configurable sensor that provides real-time, low false positive alerts of human walkers, large and small vehicles, low-flying aircraft, gunshots, digging, and other events that cause minute disturbances to the buried fiber optic cable sensor.

Phosonic™ utilizes state-of-the-art digital signal processing, machine learning classification algorithms, and standards-based data format and communications protocols for alert notification, sensor-to-sensor communication, and wide area situational awareness.

- ☑ Rayleigh Optical Scattering for continuous phase analytics of pressure wave detection
- ☑ State-of-the-art machine learning algorithms to classify acoustic targets
- ☑ Custom signal processing to enhance target detection, correlation, and localization
- ☑ Advanced fiber optic cable and amplification technology
- ☑ Standards-based, interoperable communication protocols for alert notification and machine-to-machine sensor integration

