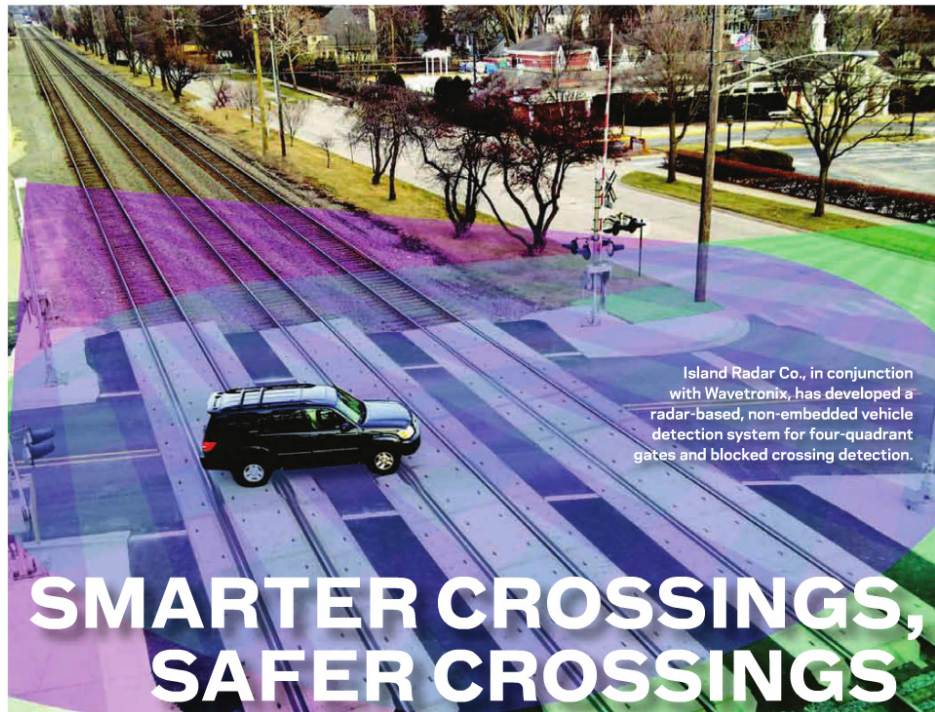


Island Radar Company excerpt reprinted from Railway Age, September 2013 issue highlighting grade crossing safety technology.



Grade crossing safety is an area where quality technology can help save lives while contributing to the bottom line.

By MISCHA WANEK-LIBMAN, Engineering Editor

RADAR-BASED SOLUTIONS

Island Radar Co. has developed a radar-based, non-embedded vehicle detection system for four-quadrant gates and blocked crossing detection. The system came about at the request of several railroads and state departments of transportation and included partial funding and validation testing by the FRA's Office of R&D.

According to Island Radar Co. President Tom Hilleary, four-quadrant gate crossing warning systems increasingly utilize dynamic exit gate operating mode, which requires a vehicle detection system to influence exit gate behavior.

Island Radar Co.'s detection solution, developed in conjunction with Wavetronix, provides 100% redundant detection throughout the entire crossing island. The vehicle detection system can also communicate when a crossing is blocked or obstructed. Using the radar-based vehicle detection system, blocked crossing status can be communicated to passenger

locomotive onboard systems via PTC, a capability Hilleary says is increasingly important for higher speed passenger trains operating on freight railroad corridors. In instances where vehicles have moved into the crossing island but remained stationary for too long, alert messages are sent via any network or wireless media, along with images and streaming video showing current crossing conditions.

In addition to the product currently on the market, the company has also developed an in-vehicle crossing proximity alert device that can improve driver awareness at passive crossings by exploiting the convergence of micro-power mesh networking, energy harvesting, and train proximity awareness via PTC. The company is seeking industry partners to implement a demonstration and evaluation project."