

Improving Safety on our Roads through Innovation

Chloe Smith

National Innovation Manager for Fulton Hogan

Fulton Hogan, recognising the need to drive innovation, has implemented a new strategy, aimed at delivering more effective, efficient, and safer solutions for our people, communities and clients. We have delivered a number of key projects including the development of new and modified tools and applications, and the implementation of new technologies developed overseas and not yet trialled in New Zealand. Fulton Hogan is uniquely positioned to leverage off our existing relationships, collaboratively improving safety through our joint ventures, alliances, major projects and regional business.

Some examples of projects include:

ROTO Chain: a chain system for increasing wheel traction in snow/ice. This driver-operated hydraulic system includes a rotating chain system that passes under the tyre. Product is cost-efficient and increases safety and job efficiency. Developed in Europe, this is the first time this product has been trialled in New Zealand conditions.

Intellicone and X-net for closure breaches: Intellicone is a system that ensures road workers have pre-warning when a vehicle breaches the exclusion zone of a worksite. Contact sensor technology sets off an alarm when the road cone housing the unit is knocked over. X-net vehicle arrest system is a military grade net that latches onto the front tyres with barbed spikes, wrapping tight around the wheels to prevent the vehicle from entering a site or driving the wrong way down an off-ramp.

Grit re-spreader: a tool that our Nelson workshop developed to re-spread the windrowed grit back onto the road therefore improving road friction without the need to apply virgin material. It works by using cutting edges and broom butts mounted to a frame that takes the windrowed grit and redistributes it back across the traffic lane.

Other examples will be provided in the main presentation.