Beyond Compliance-ZERO HARM

Objective

- Designing in Safety and Developing Safety Leadership Culture
- Safety can be a driver for innovation and productivity
- Zero Harm
  - Zero harm means that people do not get hurt at work and everyone returns home injury free.
  - Zero harm reflects our belief that all injuries are preventable.
  - To achieve zero harm, we recognise the importance of visible leadership


Carnage in the workplace

Safety Technology

brings technology to safety

Designed with Industry for Industry
Work zone Hazards

- When setting up and taking down work zone safety barriers, workers are away from light sources
- Working in variable weather conditions, including rain, fog, snow, mist
- Working under variable light conditions
- Many activities being undertaken at once from all angles
- Shading of light due to construction equipment
- Workers moving to and from work zones (i.e. to work huts) move outside light sources
- Worker inattention

Existing Technology

Hi Visibility Vests

- Traditional reflective vests rely on external light sources;
- Traditional vests lose their reflectivity after a few washing cycles;
- Reflective material performs only on certain angles;
- Efficiency of reflective material diminishes in extreme weather conditions (fog, rain, etc.);
- Workers and equipment have similar retro reflectivity which makes it hard to distinguish between them

Lightknight Technology

- Visible from all angles and up to 800m
- Lightknight is distinctive and will not be confused with other equipment on site
- Lightknight enhances existing Hi Vis equipment
- Lightknight is visible in all weather conditions, and from all angles
- Lightknight is lighter than iPhone, durable, water and dust resistant
- Lightknight can be retrofitted to any workwear
- Lightknight is interchangeable between workwear
- Jackets can be washed with Lightknight armourgloow tracks attached

Visibility- Hi Vis vest

Fig. 9 Light levels from retroreflective material at 20m headlights on low beam

Visibility- Lightknight System

Fig. 11 Light levels from LightKnight material at 20m headlights on low beam

Lightknight vs Retroreflective

Fig. 11 Light levels from LightKnight material at 20m headlights on low beam. Fig. 11 Light levels from retroreflective material at 20m headlights on low beam
"...I feel that this should be included in the mandatory PPE issue requirement for all TC’s and STMS personnel to name a few. I am an advocate for this essential product that will help us to achieve Zero Harm activities.—

Fulton Hogan – HSSE

"...As my shifts were mainly night time, I wore the Vic Roads safety vest with the Lightknight kit. In this role, the Lightknight kit was ideal, especially when giving instructions and speaking to other drivers…"

Vic Roads- TSS Coordinator

"...Mario, the executive recognised some 6 or 7 years ago that we need to implement illuminated vests, but up until now nobody has developed a practicable product... Would you consider assisting in developing a National standard ....ATSSA (American Traffic Safety Services Association) Conference in San Diego Feb 2013

What would this award mean

- Endorse and recognise the efforts put in by dozens of people and customers over the last 3 years
- To our customers, and your workers, endorse the importance of safety and importance of technology in safety
- Reinforce the culture of going “Beyond Compliance”
- Recognises NZ Innovation has a key role in not only IT, but in safety and protecting people
- Spur us and others on, to continue to Innovate

Thank you and we wish all the contestants every success