

**LIGHTKNIGHT**  
SAVING LIVES

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**Presentation by Managing Director**  
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LightKnight International Ltd

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## Carnage in the workplace

**It's time we changed our safety culture, writes Rob Stock.**

THE NUMBER of people killed at work each year in New Zealand would fill Eden Park four times, a national discussion paper to be released today will reveal. It is roughly twice as dangerous to work in New Zealand as in Australia and about four times as dangerous as working in Britain, and that is not counting people injured while driving to and from work. The cost to the nation of the workplace carnage is \$5.5 billion a year. The paper is from the independent Foundation for Workplace Health and Safety, which has been backed with funding by 25 per cent by 2013 – the equivalent of one Eden Park's worth of coalminers.

That could mean low rates paid by the worker, low corporate law and water failures to keep workers safe could be criticised. The article, "Corporate manslaughter" will stress approval to the Government, as well as measures of involving the courts if a trial where certain health and safety charges are laid. "Such moves would create a high level of expertise for corporate and organisations to get health and safety right. "There is no doubt that this is an extremely respected to take a strong interest in corporate manslaughter," says Light. "It is very clear that that some drive to get on with their work, particularly health and safety."

Strong leadership is key to effective change, says Light, and he should know. Some years ago, he decided to globalise his business, and took action. Canada has taken by more than three quarters. What made the most difference to that was leadership, says Light. New Zealand needs a culture of strong leadership in health and safety, that the workplace, says...

Carnage by numbers	
100	People die from workplace accidents each year.
700-1000	People die of work-related illness.
6000+	People have a serious harm incident in their workplace.
190,000	Claim medical costs as a result of being hurt at work.
25,000	Are badly enough hurt to be off work for a week.
370	End up in hospital diagnosed with a life-threatening condition.
\$3.5b	The cost to the nation of all this death and injury each year.

**Beyond Compliance-ZERO HARM\*** **LIGHTKNIGHT**  
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**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

\* Source :<http://www.fletcherbuilding.com/society/health-and-safety/our-vision>

**Safety Technology** **LIGHTKNIGHT**  
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**brings technology**

to **safety**

**Designed with Industry for Industry**

### Work zone Hazards

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- ⊗ 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

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#### 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

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- ⊗ **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 i Phone, durable , water and dust resistant**
- ⊗ Lightknight can be retrofitted to any workwear
- ⊗ **Lightknight is interchangeable between work wear**
- ⊗ Jackets can be washed with Lightknight armouलगlow tracks attached

### Visibility- Hi Vis vest

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

### Visibility- Lightknight System


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

### Lightknight vs Retroflective

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Fig.11 Light levels from LightKnight material at 20m headlights on low beam      Fig.9 Light levels from retroreflective material at 20m headlights on low beam

What Customers are saying 

“...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

What Customers are saying 

“...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

What Customers are saying 

“...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

Early Adopters-LEADERS 



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



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Thank you and we wish all the contestants every success