SLIPVISION
BLACK ICE NEVER SAW THIS COMING.

PROBLEM: Black ice forms from freezing rain, which creates a thin layer of ice on roadways that appears identical to wet pavement. Unsuspecting drivers will drive over the ice and lose control. The most accident prone areas are bridges, steep hills, tunnels and curvy roads.

SOLUTION: SLIPVISION. Designed to eliminate the element of surprise, SLIPVISION is a system that uses ultraviolet LEDs along the roadside and a special quinine-rich road surface lets drivers see the black ice before they get to it. The glow of the ice will still be visible in headlights as well as in broad daylight. However, the system glows brighter in the dark, alerting drivers of the ice even before their headlights illuminate it. By implementing this system drivers can navigate black ice safely.

So far during the 2009-2010 winter there have been at least 425 deaths due to icy roads in the United States alone.

Context diagram: Before & After installation

NO SLIPVISION

BEFORE

AFTER

SLIPVISION EQUIPPED

Air Temperature: 28F
Bridge Temperature: 31F

Cold Air

Road Temperature: 39F

INSTALLATION AREAS

STEEP HILLS
BRIDGES
WINDY ROADS
TUNNELS

UV LIGHT MAKES THE FREEZE-ACTIVATED QUININE ROAD SURFACE GLOW UNDER THE ICE

TEMPERATURE SENSITIVE QUININE ROAD SURFACE

UV LED TUBES LINE THE ROADWAY

WATCH FOR ICE ON BRIDGE