



Safe Roads

Virtual Reality for Safe Systems Design



5th March 2019



The Problem



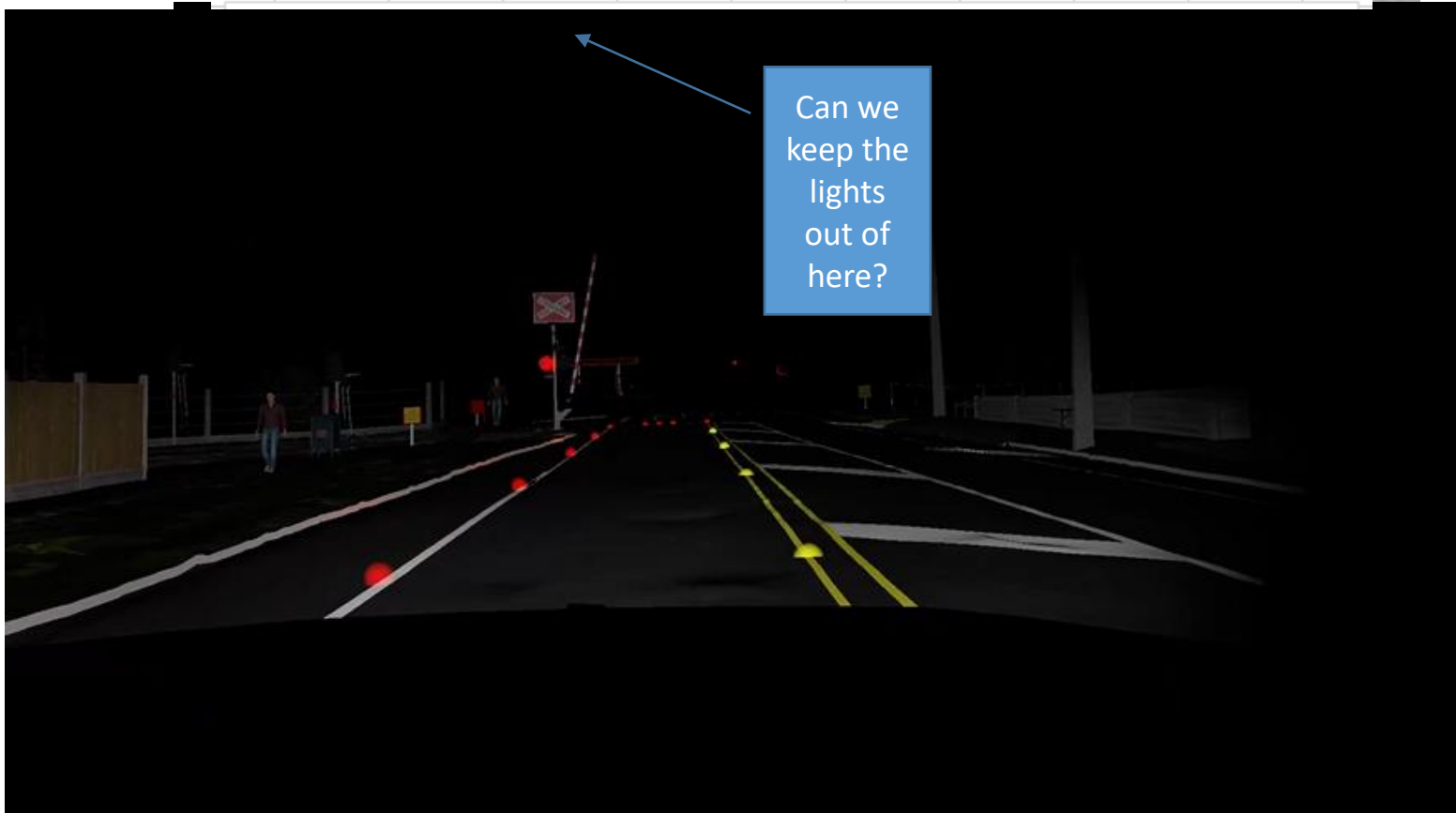


Developing the Safe Systems VR Model





Optimising the Design through VR







Pedestrian Safe System VR Model





Summary – Why use VR?

VR builds upon other design tools to enhance and improves designs;

1. Assess options via a ‘human factors’ approach as we can enhance safety as VR enables to focus on the human interaction with treatments;
2. Once model set up, repeatability of environment means we can efficiently test / innovate design treatments;
3. Multiple user perspectives enhances the designers ability to solve the problem;
4. Be more confident that new ideas will success in a physical trial (cost and time);
5. We can easily engage through 360 VR videos so acquire better feedback
6. Ability to change environment (add traffic, change weather, adjust speed,);
7. Can assess reflectivity, assess effects of increased porosity of signs, etc



Thank you