

The role of Technology supporting Safety

Workshop
22nd May 2024

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Director IHE



Agenda

- How solutions have evolved
- The future ?



A Brief Introduction

I've been involved in engineering for 35 years

Led Road Safety teams and delivered projects across the UK

Lead the technical application of Road Technology for Jacobs

I am a Fellow of the Institute of Highway Engineers

Membership more than 3500 members

Many of our members day job is to deliver the investigation and delivery of road safety.



**INSTITUTE OF
HIGHWAY
ENGINEERS**

What is Technology

Technology is the application of conceptual knowledge for achieving practical goals, especially in a reproducible way”

Wikipedia

“Technology concerns itself with understanding how knowledge is creatively applied to organised tasks involving people and machines that meet sustainable goals.”

- *Technology is about taking action to meet a human need*
- *It uses much more than scientific knowledge*
- *Technology is a hands-on*

Open University

As Simple As

Lining of the road

- *first in 1918 – first centre lines*
- *first recognized MoT in 1926*
- *‘yellow lines’*
- *developed with ‘rainline, increased reflectivity, raised profile edge line (rumble)’*
- *simple marking of the road but also used to influence behavior*



<https://www.mediastorehouse.co.uk/mary-evans-prints-online/new-images-august-2021/first-white-line-painted-london-road-23100446.htm>



Influence Behaviour



<https://www.geograph.org.uk/profile/39302>



<https://www.transport.gov.scot/news/new-road-markings-transform-behaviour-of-motorcyclists-on-bends/>



As Simple As

Road Studs

- reflecting road studs - 'cats' eye's
- Value seen from war years to adopt
- continued to develop as solar studs
- illuminated wires studs being conditional on operation



https://www.sabre-roads.org.uk/wiki/index.php?title=File:White_Lightdome_catseye_roadstud.jpg



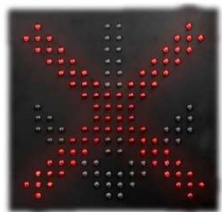
https://www.clearview-intelligence.com/wp-content/uploads/2024/04/Active_Road_Studs_Brochure_Digital_Download_April-2024.pdf



<https://www.clearview-intelligence.com/case-studies/improving-safety-at-one-of-englands-busiest-motorway-junctions-with-intelligent-road-studs/>



As Simple As?



<https://www.messagemaker.co.uk/products>

<https://www.westcotec.co.uk/>

<https://www.bbc.co.uk/news/business-59134013>

As Simple As

Traffic Signals

- *Over 100 years of operation*
- *Same principal operation across the globe*

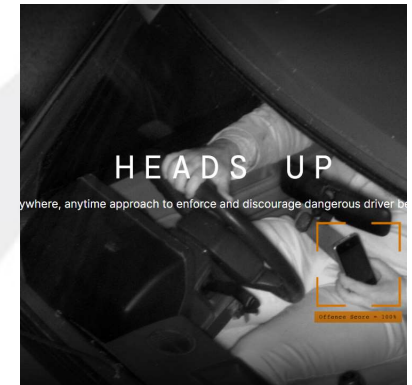


Alexandria

As Simple As

Enforcement

- *Hand held devices*
- *'Gatso' fixed cameras*
- *Average Speed Cameras*
- *Moving traffic offences*
- *Developing further into video enforcement of us of mobile phone*



<https://www.acusensus.com/solutions/heads-up/>



The future

Richer data – direct or indirect - for developing interventions

How we observe and change behaviours ?

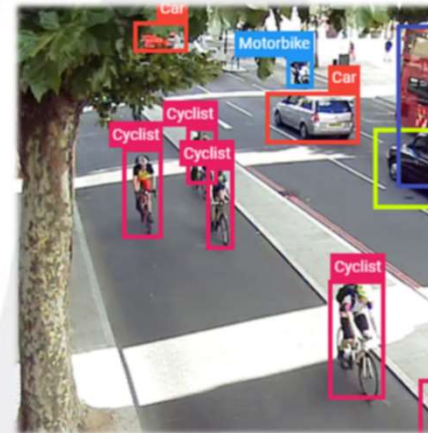
Better understanding our designs



<https://www.starlingtech.co.uk/>

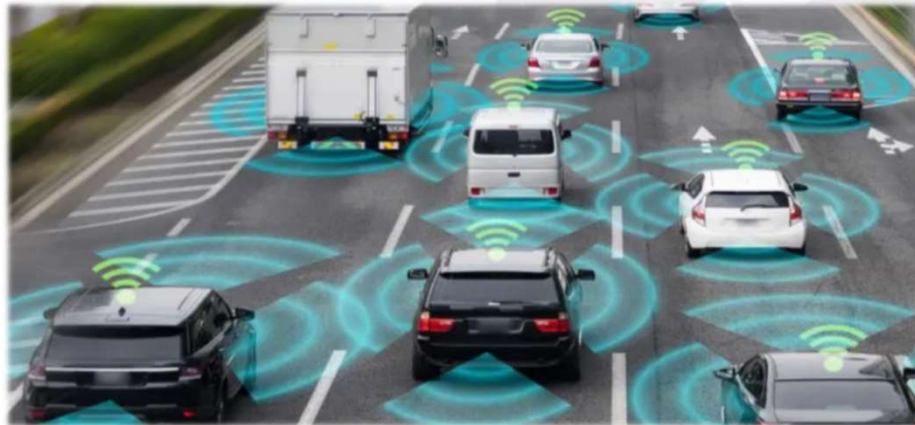


<https://vivacitylabs.com/products/smart-road-safety/>



The future

- *Growth in 'automated' vehicles*
- *More in car technology and direct messaging*
- *A mix of 'old' and 'new' technologies will remain*



Thank you for your time

Any questions please contact
membership@theihe.org or visit our website
at www.theihe.org

