



# Transport safety and security workshop

## Coventry University

**Making our roads safer for all**

Eric Hill  
22<sup>nd</sup> May 2022





# About CIHT

- CIHT is a charity, learned society and professional membership body.
- CIHT is the home for everyone working in highways, transportation and infrastructure.
- CIHT has 12 UK Regions and Nations, plus several international groups including the Republic of Ireland, Hong Kong and Malaysia.
- CIHT has a Partnerships Network, which includes over 100 Corporate Partners, as well as academic institutions and public sector bodies.
- CIHT was awarded a Royal Charter in 2009.





# Road safety engineering



V's





# What is Road safety audit?





# What is not Road safety audit?

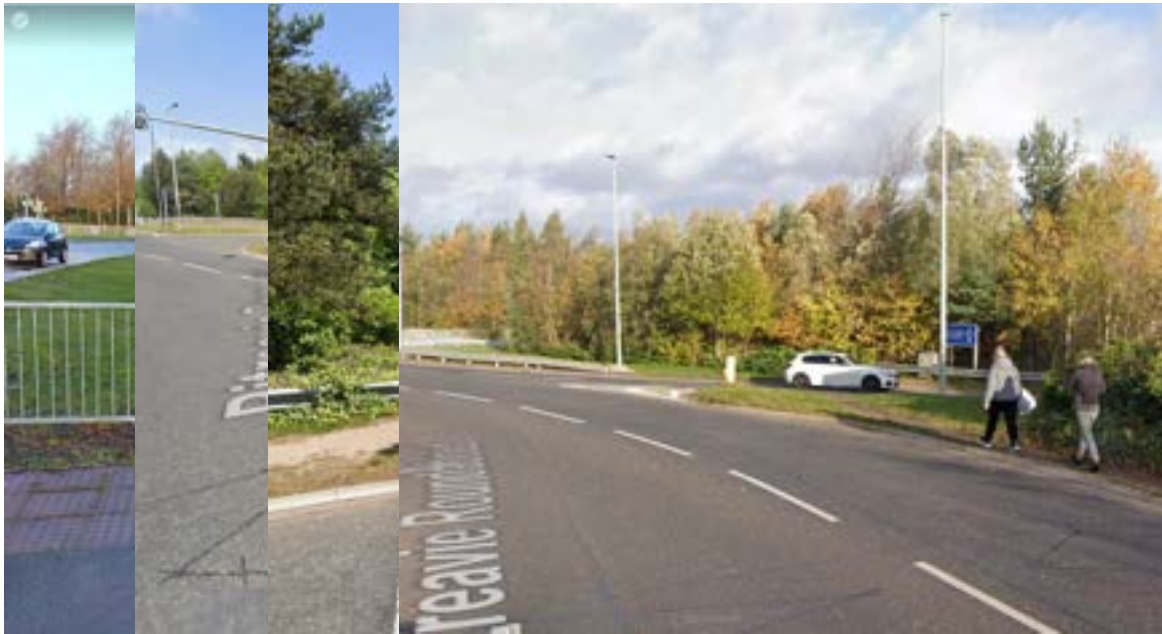


# Pedestrian and Cyclist safety





## Desire lines



# Lane selection





## Lane discipline



# Safety governance in design

- Road safety audit
  - GG119 Rev 2 of Design Manual for Roads and Bridges



## What do we audit?

- Where there are physical changes to the highway impacting on road user behaviour or resulting in a change to the outcome of a collision on the trunk road and motorway network, road safety audit (RSA) shall apply, regardless of the procurement method.
- Temporary traffic management and temporary changes to the highway not associated with the construction of a highway scheme, and that last longer than 6 months in duration, are considered to be physical changes to the highway.

# Stages of Road Safety Audit

- Stage 1 – Completion of Preliminary Design
- Stage 2 – Completion of Detailed Design
- Stage 3 – Completion of Construction
- Stage 4 – Post opening monitoring
- Combined Stage 1 and 2
- Interim Audits





# Who are the road safety auditors?

- Qualifications
  - Experience in collision investigation
  - Experience in road design
  - Experience in road safety engineering
  - 10-day structured road safety engineering course
  - Independent of the design team
  - Must be at least two to make a “team”
  - Do not carry out standards or specification checks
- Approved by the Overseeing Organisation





## How do they “audit”

- Receive a Brief defining the scope
- Review of design
- Site visit
- Research
- Comparisons
- Prepare a report
  - Identifies problems and makes recommendations





## Then what?

- Overseeing Organisation agree the report is within the scope
- Designer reviews and makes response to Overseeing Organisation
- Designer and Overseeing Organisation agree outcomes.





# What do we find on road safety audits



# Ironwork in the braking zone



## Trip hazard on footway





# Post and rail fences on fast roads





## Trip hazard on desire line



## Lack of contrast on steps





# Safety and security?

- Safety vs Security
- Is safe = secure?
- How does security fit into road safety audit?



# Pedestrian and cyclist safety





## Safety at crossings





## Safety on remote paths





## Safety in underpasses



# Conflict

- Criminality
  - Remote paths
  - Underpasses
  - Unlit areas
- Road rage
  - Poor road layout
  - Incorrect or poor signing
  - Speed limits





# Temporary Traffic Management





**Event Name**

**Questions?**

**Eric Hill**  
**22<sup>nd</sup> May 2024**





**Thank you  
for listening**

