



The Introduction of Red Light Camera Enforcement System

Urban Tram Forum

Lyon, 3rd & 4th November 2016

Reddy Morley

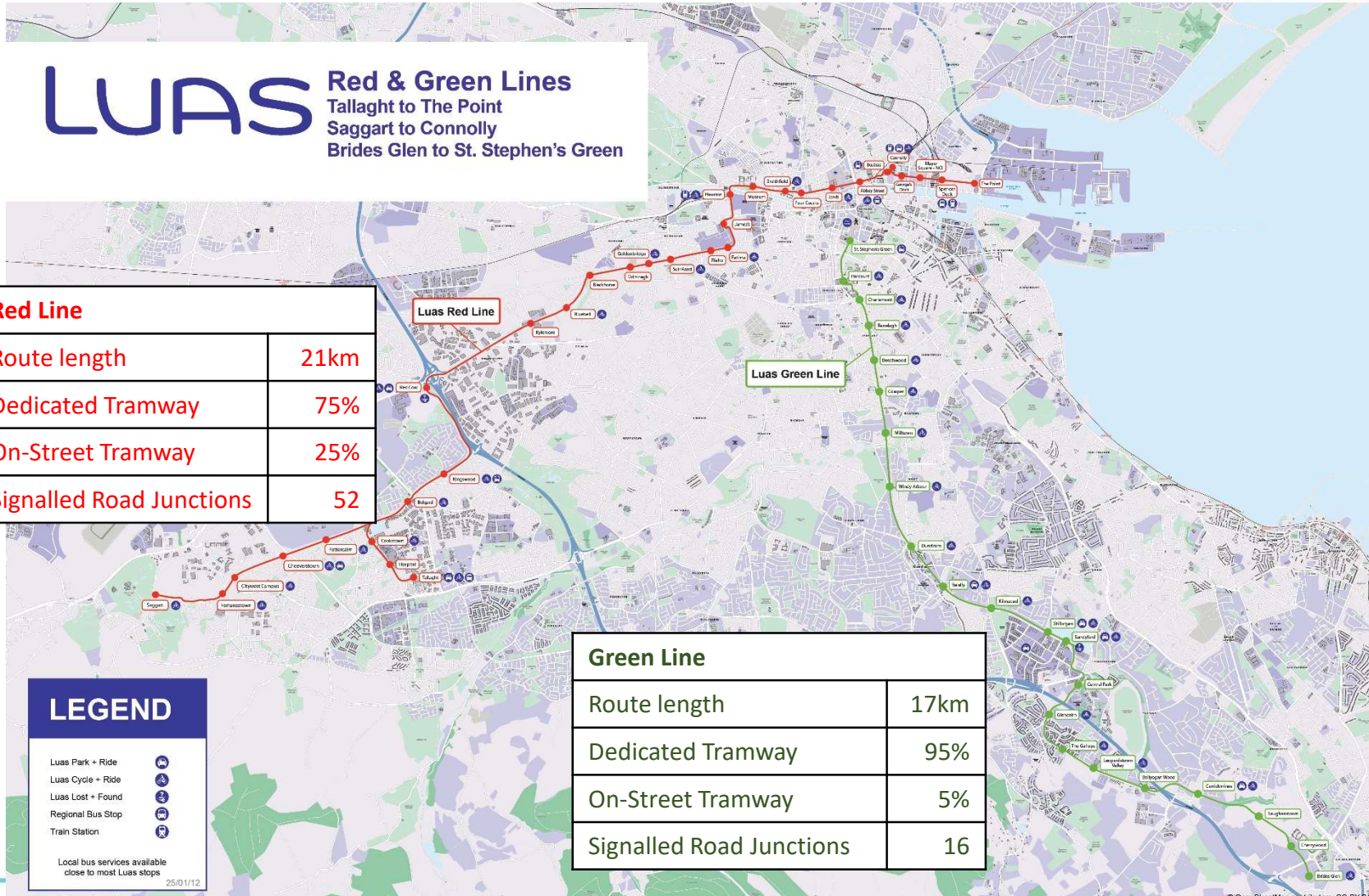
Head of Rail Safety and Occupational Health & Safety
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Presentation

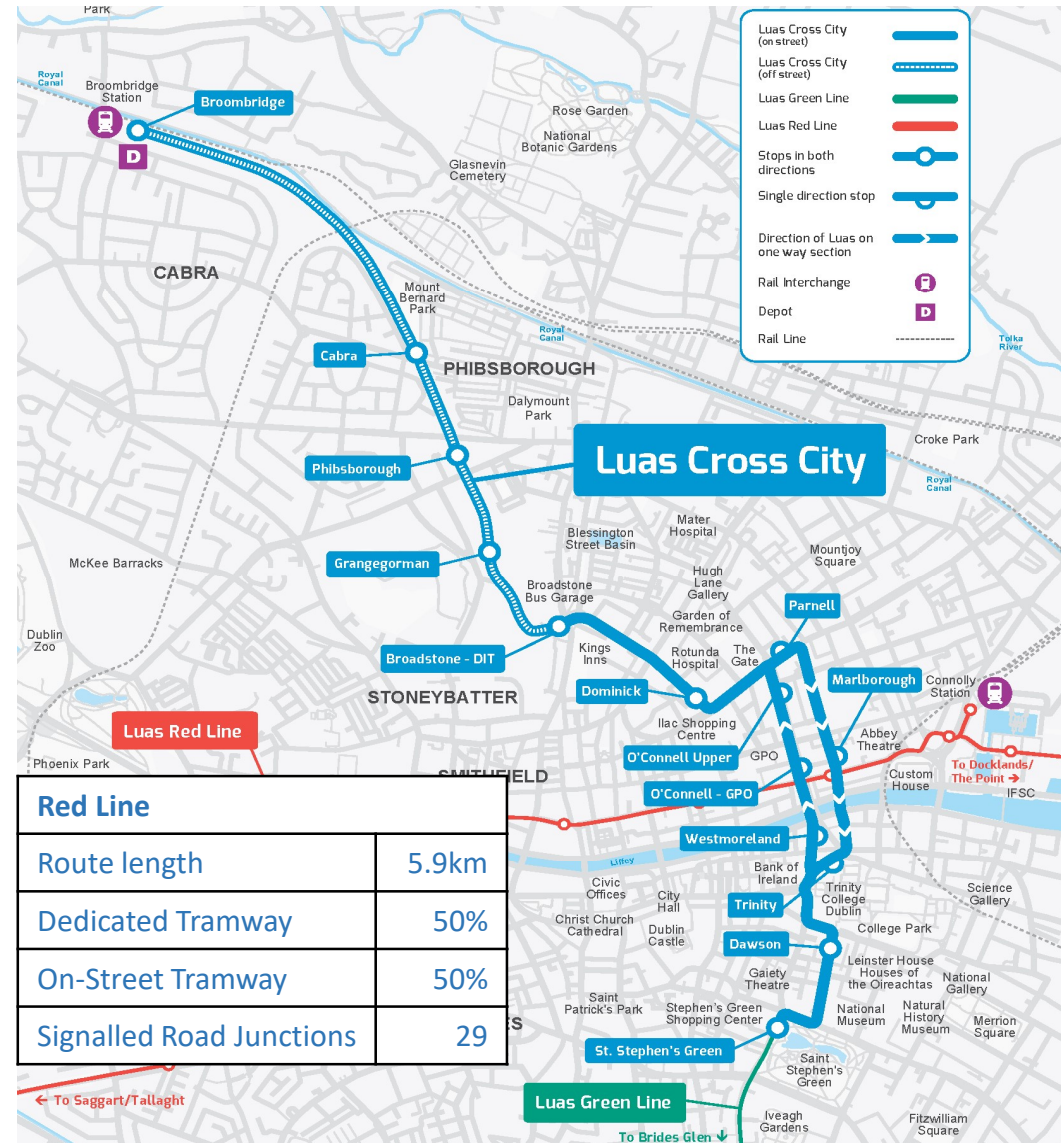
- Luas Network Overview
- Accident Statistics
- Red Light Camera
- Red Light Infringement Statistics
- Mobile Red Light CCTV camera
- Safety Campaigns



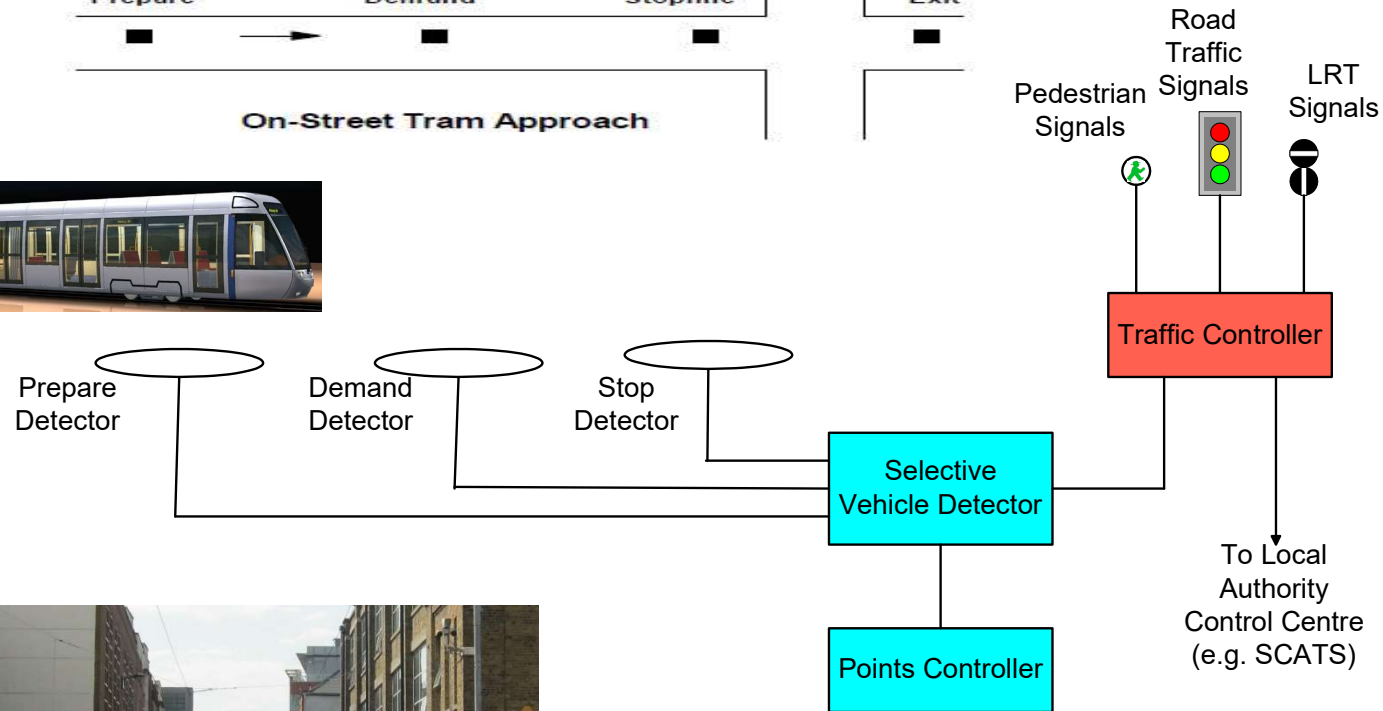
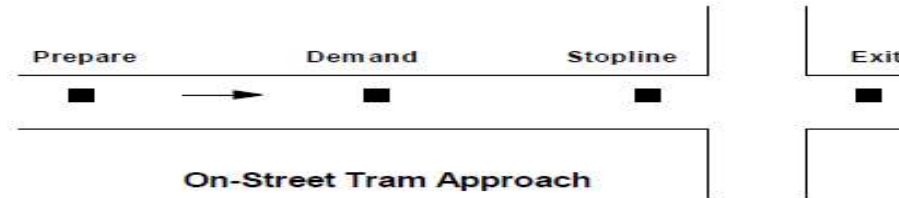
Luas Network



Luas Cross City (LCC) Route & Stops



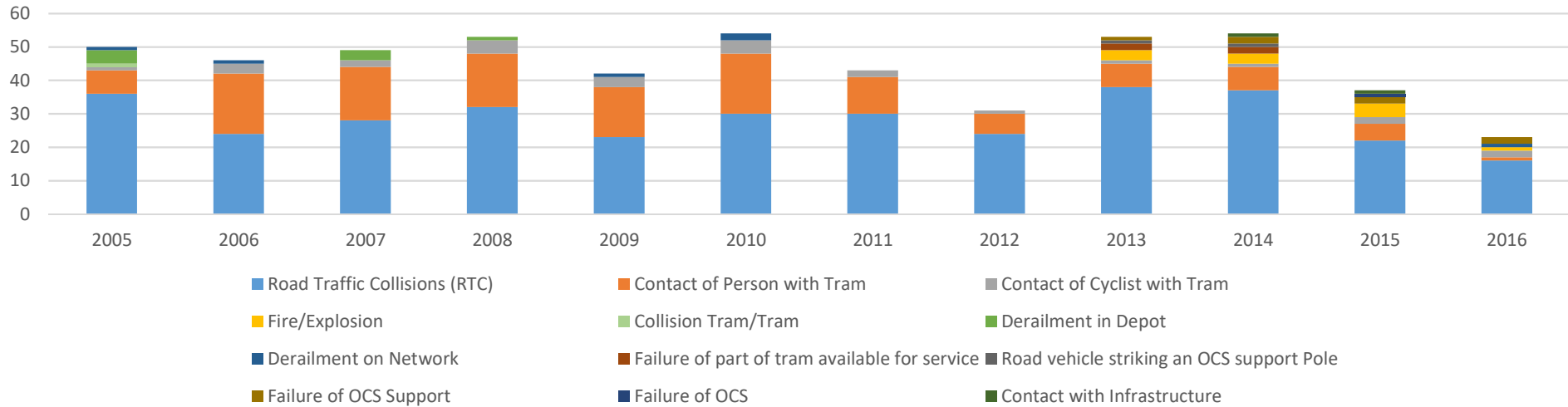
Luas/Road Junction Signalling



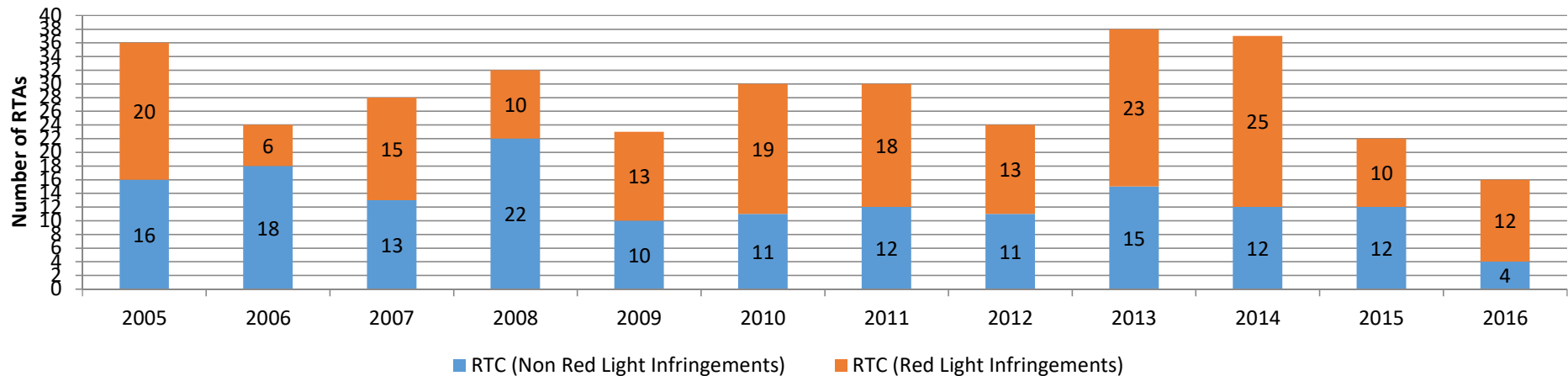
Luas Incident/Accident Statistics



Luas Incidents/Accidents



Road Traffic Collisions (Tram/Road Vehicle)



Road Traffic Collisions





Mitigation Measures at Junctions

- Oversize advance tram warning signs.
- High friction carriageway surfacing.
- Additional secondary traffic signals on the southbound approach
- Flashing road studs in the carriageway surface.
- High mounted secondary traffic signal.
- Louvres on the traffic signals LED traffic signals at the junction.
- Repainting of all junction line marking including yellow box marking
- Queen Street Junction Improvement Scheme
- Disabling the demand tram detection loop, requires all trams to stop completely at junction.



Red Light Camera Project

- The objectives of the Red Light Camera Pilot Project was to:
 - source and install two red light cameras,
 - to test and commission the red light cameras,
 - to bring the red light cameras into operation and
 - To issue Fixed Charge Notices (FCNs).
- It was agreed between NTA, TII, AGS and DCC that the red light camera on Blackhall Place at the junction with Benburb Street and the Luas Red Line be brought into operation.
- On 4th June 2015 this red light camera was successfully commissioned and began issuing Fixed Charge Notices via the Garda Pulse system for accepted detections.



Red Light Camera Installations



Red Light Infringement Statistics



	%
Accepted Detections	58%
Rejected Detections*	42%

* Cyclists Detected 30%

Summary Vehicles	%
Car	70%
Taxi	15.5%
Van	8%
EV	2.5%
Motor cycle	2%
HGV	1%
PSV	1%

Time into Red (seconds)	%
0" > 2"	57%
2.1" > 5"	7.5%
5.1" > 10"	8.5%
10.1" > 20"	17%
20.1" > 30"	7%
30.1" + >	3%

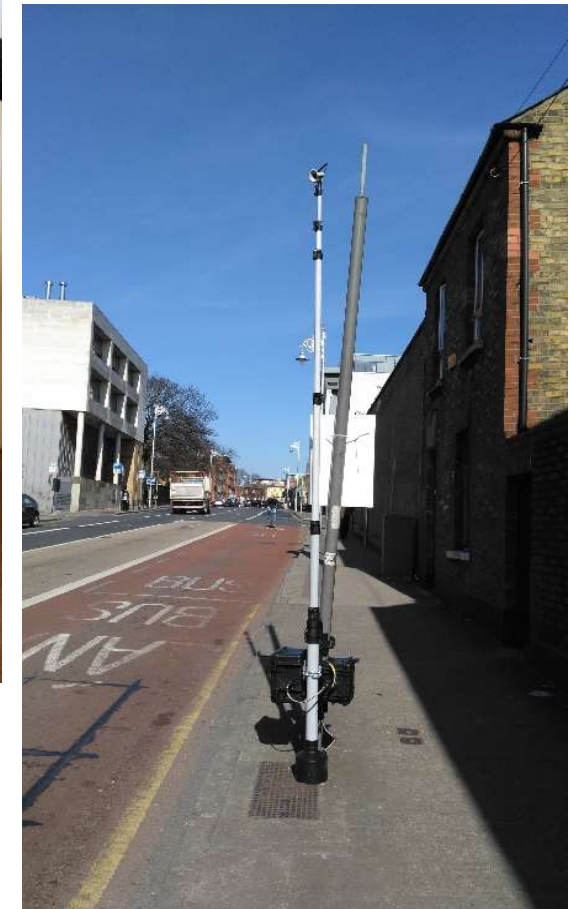
Portable Junction CCTV

Scout Video Collection Unit:

Record red light infringements and monitor motorist's behaviour at Luas junctions.

The data from this portable camera:

- will identify high risk junctions.
- assess junctions for possible future mitigation measures, including red light camera installations.
- the analysis of the CCTV footage will also help TII formulate strategies to improve the safety at Luas junctions.



Traffic Light State

Violation

Stats Button

Safety Campaigns

- A Luas Motorist Safety Campaign launched in June 2014.
- Red Light Camera at Blackhall Place launched in June 2015 with associated publicity campaign.
- Road Safety campaign - October 2015.
- Transdev's safety awareness training programme with tram drivers (ongoing).



Red Light Camera

- The Red Light Camera Project has been a collaborative approach between TII, NTA, AGS and DCC.
- TII have focused primarily on engineering and education measures, however, the implementation of the Red Light Camera has added the critical element of enforcement to the safety of Luas operations.
- Although there was a reduction in the number of RTCs at Luas signalised junctions caused by red light infringements in 2015, the continuing high level of red light infringements by motorists at Luas junctions is unacceptable and is a major concern.



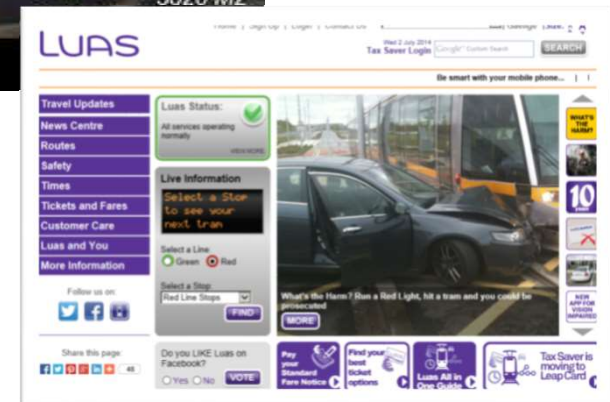
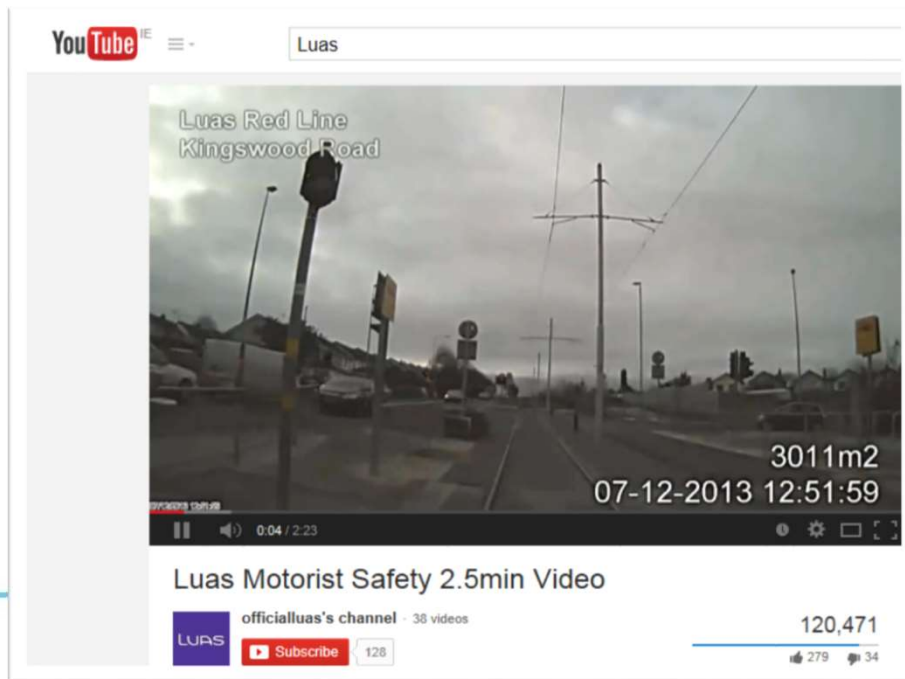
Luas Safety Videos

The following are links to Luas safety videos that were developed as part of these safety campaigns.

https://www.youtube.com/watch?v=hAJ7tqLvqXQ&feature=player_profilepage

https://www.youtube.com/watch?v=nsjpNNJ2UXg&feature=player_detailpage

https://www.youtube.com/watch?v=TYDA4k3w3IE&feature=player_detailpage



Thank You

