SIDESENSE

MAKING CYCLING SAFER FOR EVERYONE

PROBLEM AREA

53% of **cyclist fatalities** occur in **broad daylight**

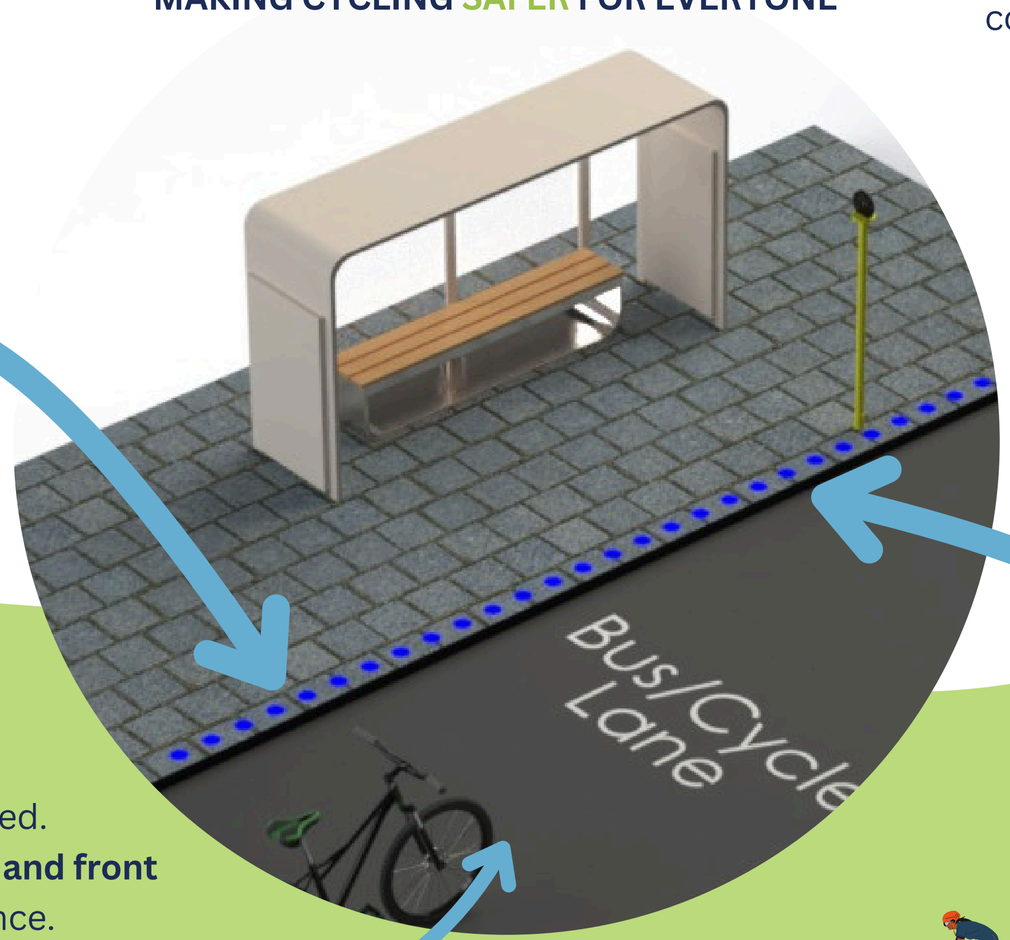
When cyclists enter a bus' blind spot, **visibility drops** and the **risk of accidents** rises

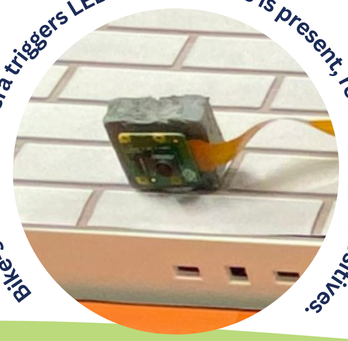
"Cycle lanes are the **bane of our lives** because cycle lanes encroach on bus lanes ... cyclists **appear from nowhere**"

Response from an interview conducted with a bus Eireann Driver

OUR MISSION

"Enhance cyclist safety by improving cyclist–bus driver communication when merging lanes"





Bright LEDs are visible in day, night and in all weather conditions

HOW IT WORKS

1. A **bike-sensitive camera** and **motion sensors** detect the **presence and speed** of a cyclist.
2. LEDs are lit **ahead of** the bike, matching its speed.
3. These lights are **visible** in the **bus' side mirrors and front window**, alerting the driver of a cyclist's presence.

Integrated into pre-existing infrastructure

Group 5: Universal Design Innovation
Prof. Gareth J. Bennett, School of Engineering
Cristina Franco | Cathal O'Sullivan | Eamon MacNicholas | Liam Norton | Maria Franklin | Samuel Mochnacz

Smarter Travel Student Awards

Bus Éireann

TFI TRANSPORT FOR IRELAND

Smarter Travel Student Awards

Trinity College Dublin
The University of Dublin