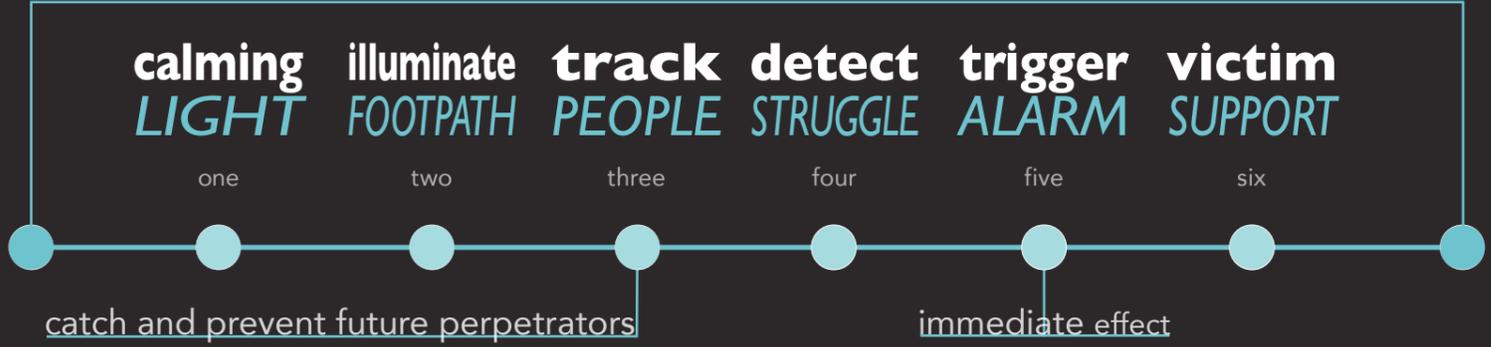


# 04 DESIGN

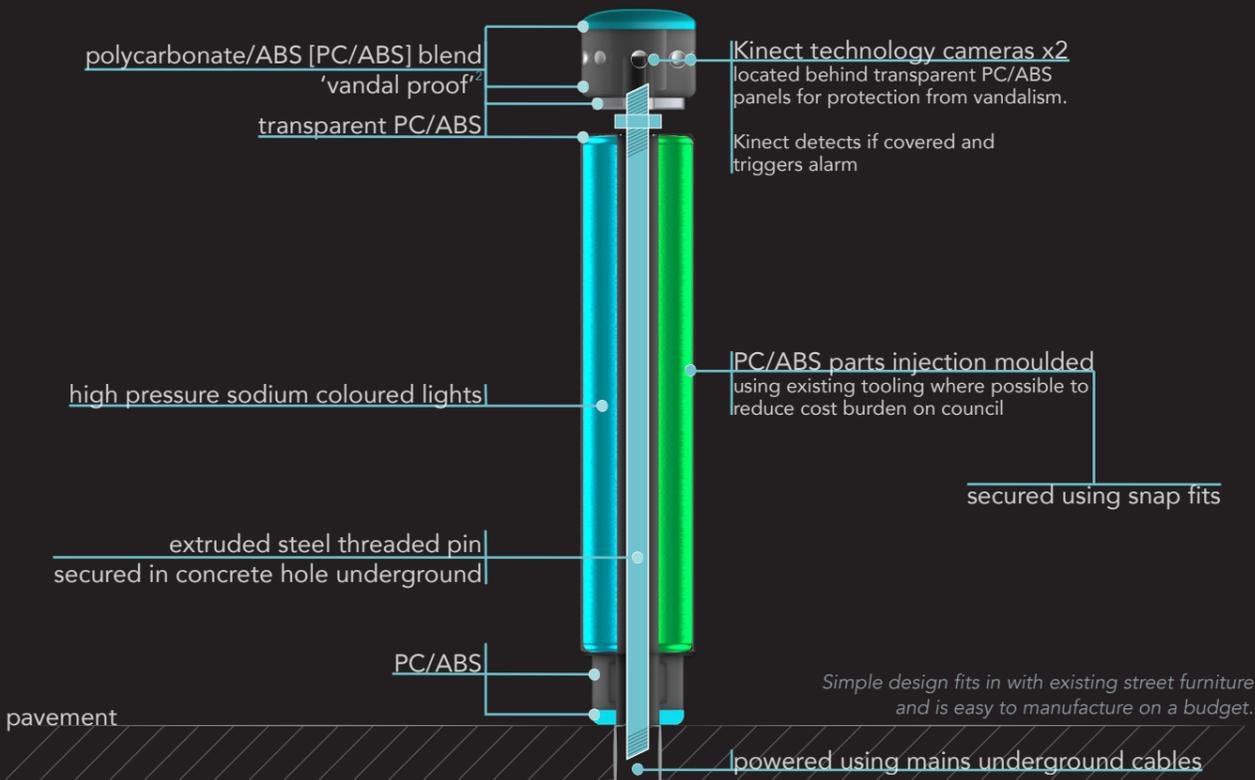
BRIEF Design a way to encourage harmony on public transport after hours.

safe ROUTE



## DESIGN PROPOSAL

Alongside training, 'light tracking units' will be placed at intervals along the pavement on dedicated safe routes. These units will provide calming light triggered by the users presence and provide advanced CCTV functions.



## STORYBOARD OF USE

'Safe routes' determined by assessing areas with highest crimes and most common routes used late at night using crime reports from [www.police.uk](http://www.police.uk).

Following the incident the perpetrator can be tracked and then convicted thanks to the footage recorded of the incident using the Kinect technology and Alice's testimony at the time.

## TECHNOLOGY REQUIRED

Microsoft's Xbox One Kinect technology proves viability but future developments required to reduce cost and improve functionality. Existing functions are as follows:

AIR (Active Infra Red) allows it to 'see in the dark'.  
 Detects, tracks<sup>4</sup> and distinguishes each user<sup>5</sup>.  
 Tracks eye movements, detect facial expressions<sup>4</sup>.  
 Kinect footage used for gait analysis identification<sup>7</sup>.  
 Kinect triggers lights when user in field of view.  
 2 cameras per unit, set in Near Range Mode<sup>1</sup>, to cover pavement  
 field of view per camera  
 max. spacing of 4.3m  
 light tracking unit