

empowering through education & skills



training to diffuse

defend locate recreate **ONESELF**

user

TARGET

SCENARIO

user/perpetrator

police

increase awareness

TRAINING TO DIFFUSE

For target market this would be best undertaken during school or college but could



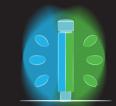
Police hold regular, monthly training sessions for school staff.



Engaging workshops using a variety of medium requiring students to participate.



The staff pass this knowledge on to a small team within the school.



Workshops include demo's of the light tracking unit.



The staff organise a workshop which is advertised around the school.



Refresher workshops held throughout the academic year.



The workshop could be held during PSHE or other lessons.



Students directed website for further information and guidance.

EXPERIENCE PROTOTYPING

Role play of mugging in a secluded street. Lights were "awesome, I feel empowered!"









scenario

Key issues raised for development:

1. Perpetrator could run in road to avoid being seen - ensure they are always visible.

2. "I couldn't give a description" of the perpetrator lighting from the ground isn't

perpetrator and the victim was suprised.







2 torches strapped onto users feet to simulate light on pavement (initial concept).



Early warning of someone approaching as perpetrator and victim clearly visible.



In a struggle, light at feet was not enough to help identify perpetrator.



The perpetrator feels "very obvious" fleeing.

OF DESIGN

O LIGHT



Most 'relaxing' & 'calming'¹.

Provides of awareness people in area, preventing a surprise attack.

1 'SMART SYSTEM'

Ensures user is protected by the environment.

Link to 3D CAD software to reconstruct a scene².



03 ALARM

Instant awareness of victim's location.

Perpetrator flee's is distracted long enough for victim to run away.

04 'SAFE ROUTES'



Perpetrators deterred from acting designated areas.

comforted by User knowledge of safe route home.

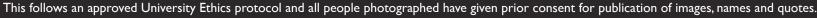
1 AFTER THE INCIDENT

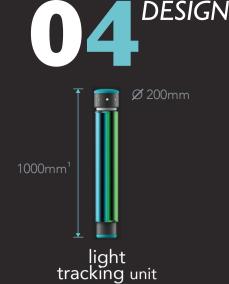
Victim receives immediate support from local police.

Reports incident immediately and perpetrator can be convicted.







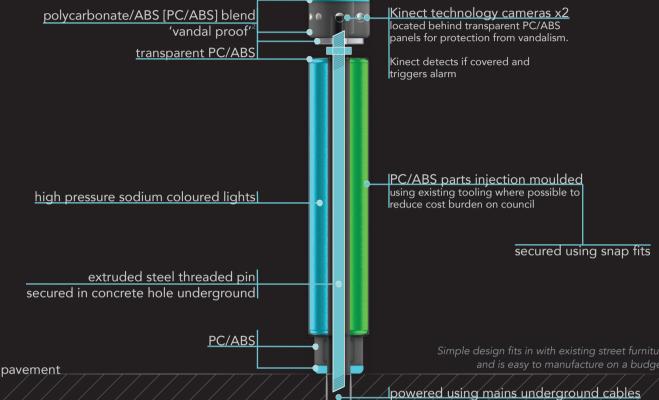


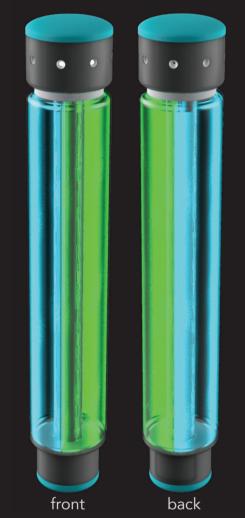
safe ROUTE





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







electronics on

reverse at base

STORYBOARD OF USE



Alice selects a new bus route home to make use of the 'safe routes'.



Microsoft Kinect technology and associated software detects the struggle.



After the bus she still has to walk home in the dark. She notices the coloured light.



Local police are notified and watch footage to determine if a false negative.



Alice walks the safe route alone and the units light up as she nears them.



As Alice is really in danger the police trigger an alarm in the unit and footage is recorded.



She notices someone on the other side of the road by the coloured light.



Alice is attacked and caught in a struggle.



Alice's attacker flees when he hears the alarm. She is no longer in immediate danger.



Local policeman arrives. Alice receives support/help getting home and reports the incident, describing her attacker.

OGY 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'³.



Detects, tracks⁴ and distinguishes each user⁵



Tracks eye movements, detect facial expressions⁴.



Kinect footage used for gait analysis identification⁶.



Kinect triggers lights when user in field of view.

