

Festival of Creative Learning



THE UNIVERSITY of EDINBURGH

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Tracking mobility

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Understanding Movement

Vehicles of many types and people move around the city all the time.

Finding new ways of measuring and understanding this movement are increasingly of interest to city planners and policy makers.

Getting richer pictures as efficiently and effectively as possible is an opportunity and challenge that IoT devices present an interesting approach to.



Understanding Movement: Challenge part 1

Automotive Vehicle movement

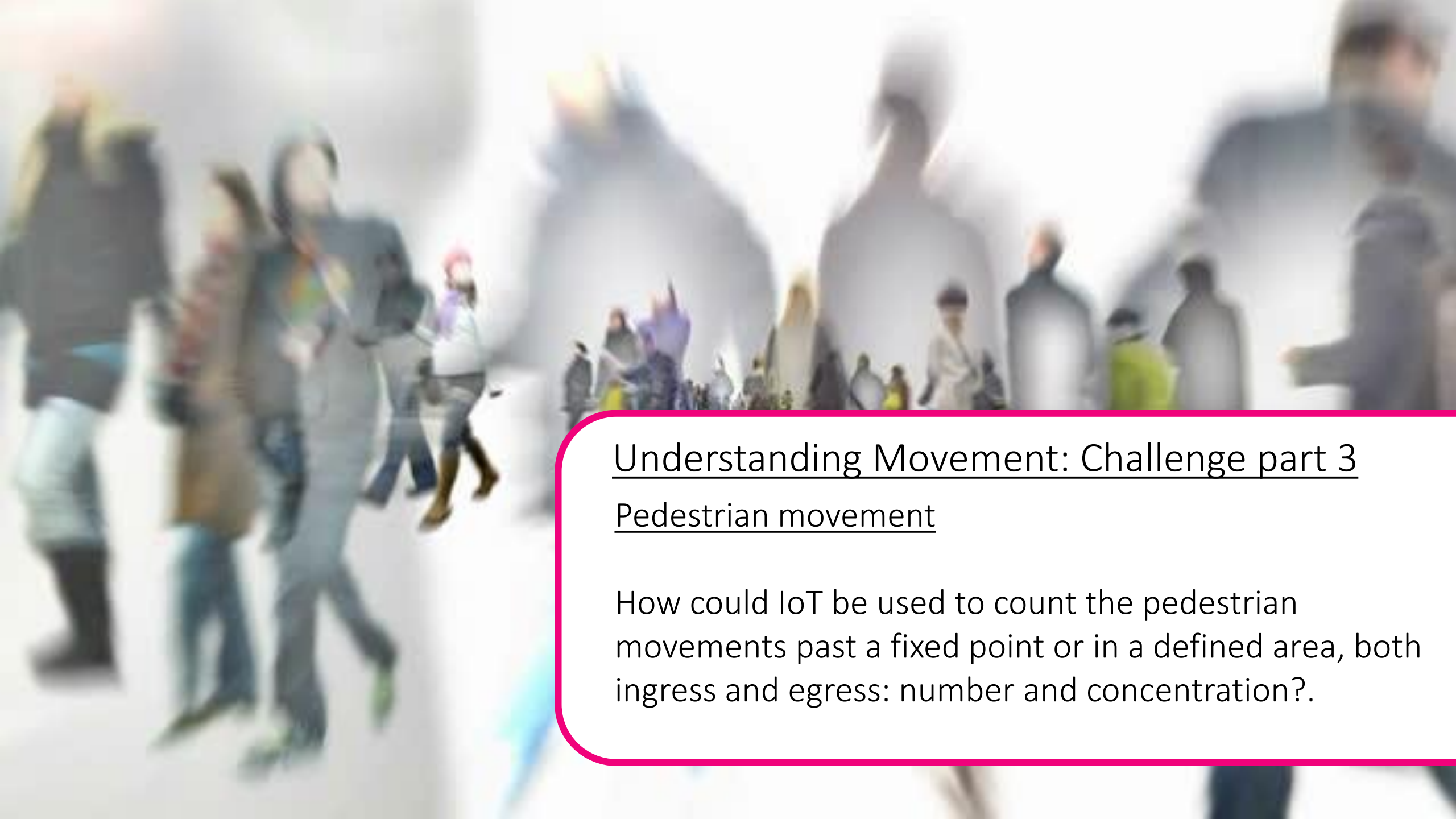
How could IoT be used to count the number of vehicle past a fixed point on the road network, in both directions, and the nature of vehicle?

Understanding Movement: Challenge part 2

Bicycle movement

How could IoT be used to count the number of bicycles past a fixed point on the road network, in both directions?





Understanding Movement: Challenge part 3

Pedestrian movement

How could IoT be used to count the pedestrian movements past a fixed point or in a defined area, both ingress and egress: number and concentration?.

A person with brown hair, wearing a white shirt and a dark tie, is writing the phrase "I will follow the rules" on a dark green chalkboard. The text is written in white chalk and is repeated four times in a vertical column. The person's hand is visible at the bottom right, holding a piece of white chalk and writing the final line of text.

I will follow the rules
I will follow the rules
I will follow the rules
I will follow the rules

Understanding Movement: A couple of rules

1. The approach **cannot** suggest the attachment of a device to the vehicle or person to be counted.
2. It **must not** generate any data that could be linked or associated directly with the individual vehicle or person.