Healthy Streets Sensors
Almere Technology - Sustainable Development Solutions

Queen Street — Friction & Movement

Client:

CITY OF LONDON

Automated analysis of complex high volume pedestrian and cycle flows, extracting data to inform design and decision making.

Speeds mapped against pedestrian density over intervention period allowing for objective assessment of friction between users.
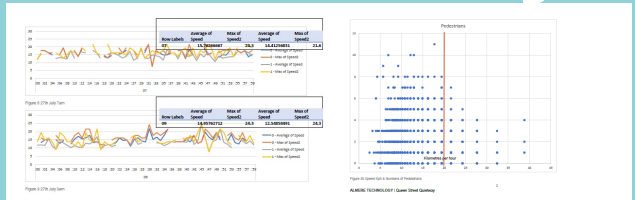
⇒ Pedestrian Density

⇒ Cyclist Speeds

⇒ Mapping of User Paths

Paths of street users extracted by user or vehicle type and by direction to enable sophisticated analysis of movement and friction.

Use of Machine Learning attracts favourable national press coverage for the client's innovative approach.

London: machine learning

Video Traffic Data Survey

Eight cameras deployed over six days capturing over 300 hours of video for analysis.

⇒ Bespoke data collection

⇒ Simple project planning

⇒ Consistent automated extraction of complex movement patterns

Bespoke analysis to meet client requirements

Computer vision analysis tasks designed to meet survey objectives. Once configured and verified algorithms produced reliable counts and paths over very high volumes.

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Newcastle — Urban People Counting

Machine Learning enabled footfall monitoring from rooftop positions overlooking Northumberland Street, one of Europe's busiest shopping streets. Baseline of people and traffic flows captured for city centre regeneration areas.

Sensors deployed both as standalone units and as a fog of connected units.

Fully maintained hardware compatible with wider urban camera network.
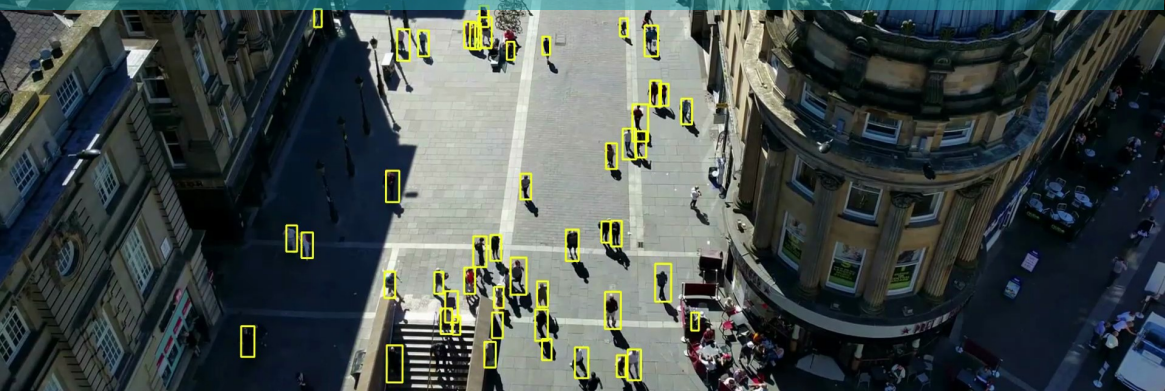
Client: **Newcastle University**

urban observatory

Connected Large Scale Crowd & Traffic Monitoring

Scalable solution deployed Summer 2018 across two sections of Newcastle's urban core.