

13:02

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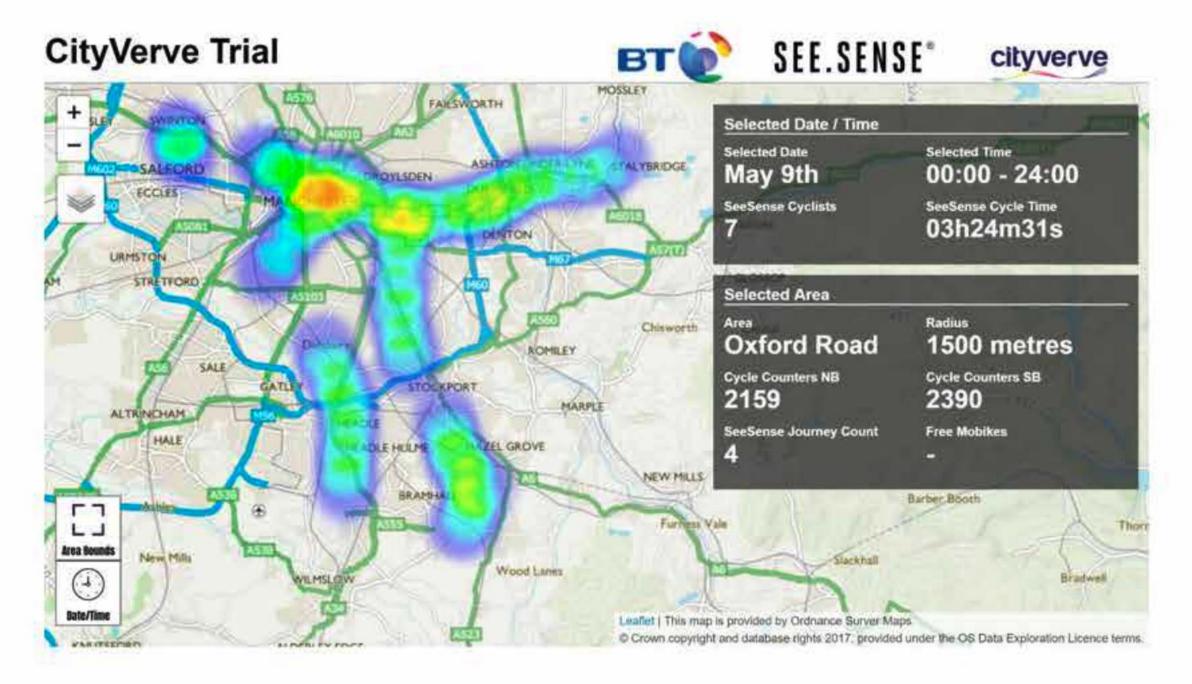
••••• giffgaff 🌣











PROJECT AIM

_ Generate a source of data and insights that will help the city of Manchester make data driven decisions on provision of cycle planning and infrastructure in Manchester

_ Provide a compelling use case for CityVerve, visualising data in the BT Hub/Platform of Platforms, utilising other data streams available to CityVerve.

_ Engage citizens in collection of data and in shaping their city



IT ALL STARTS WITH A GREAT BIKE LIGHT

See. Sense lights are used by **over 30,000** cyclists around the world.

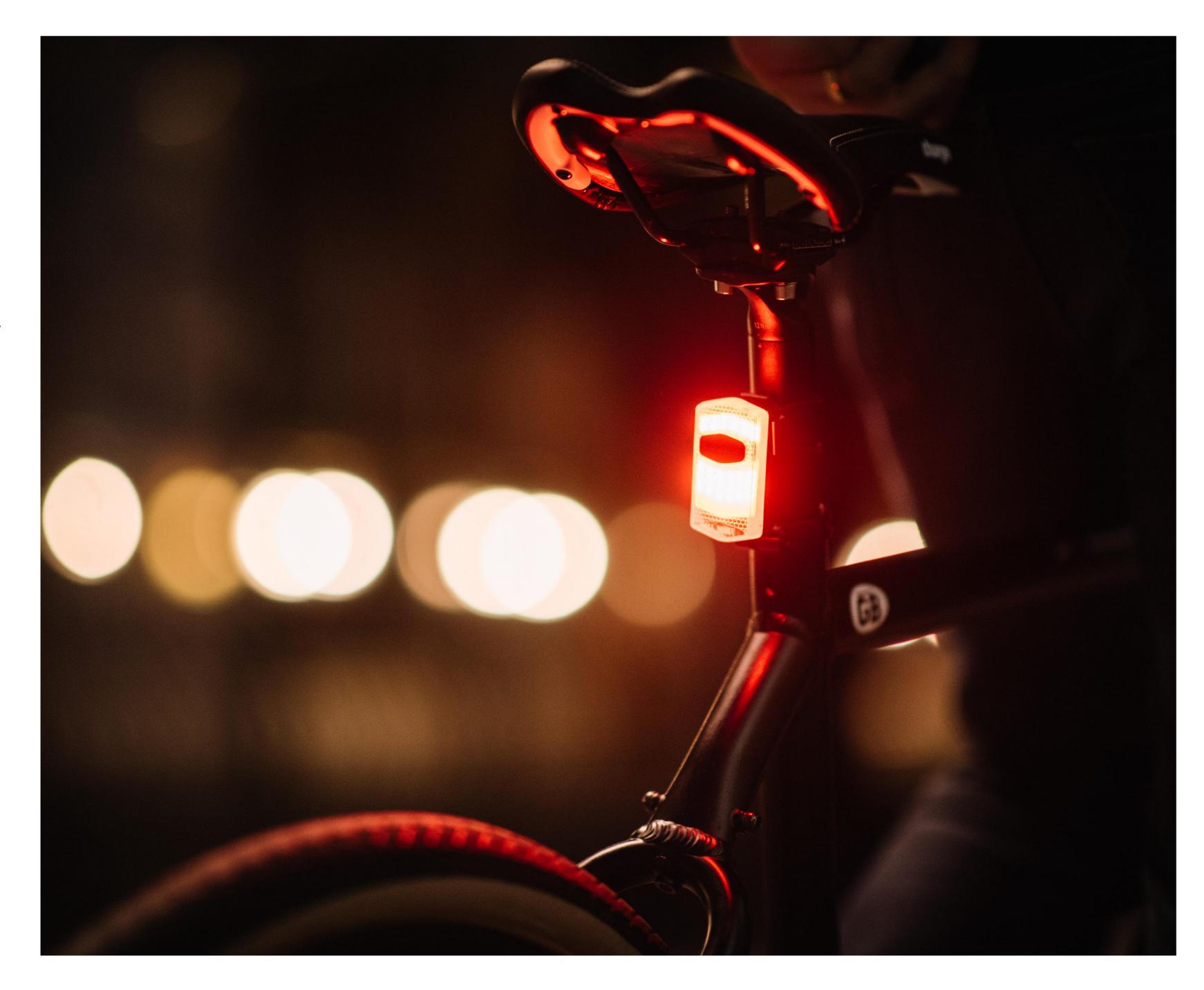
Our dedicated sensor technology detects riskier moments on the road, helping keep cyclists visible by flashing brighter and faster.









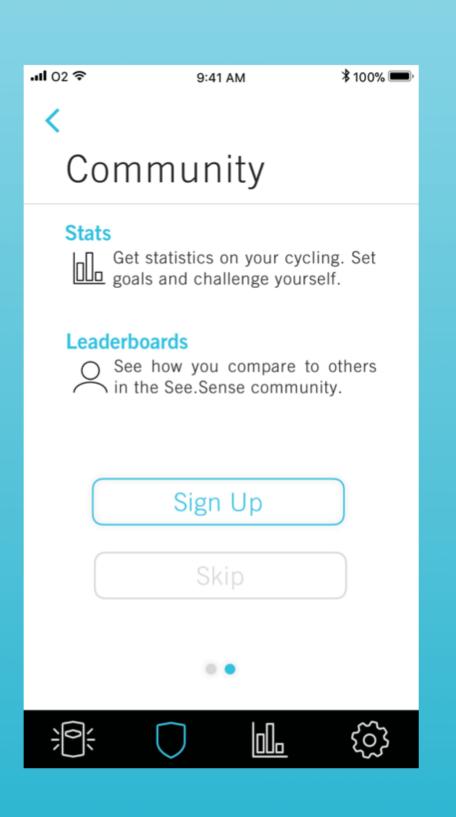


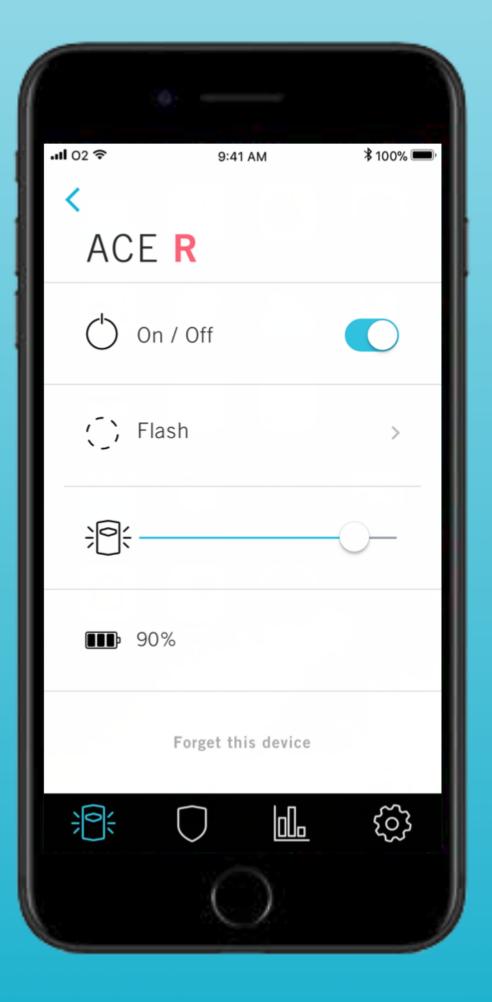
SEE.SENSE APP CAPABILITIES

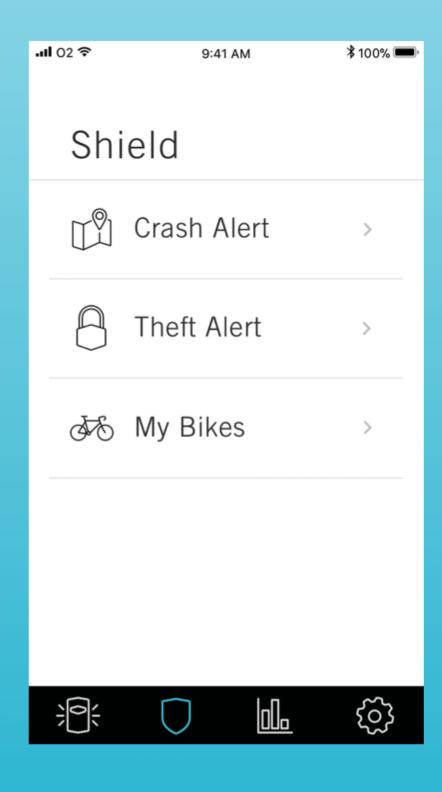
ACE connects to our free smartphone app via Bluetooth Low Energy (BLE).

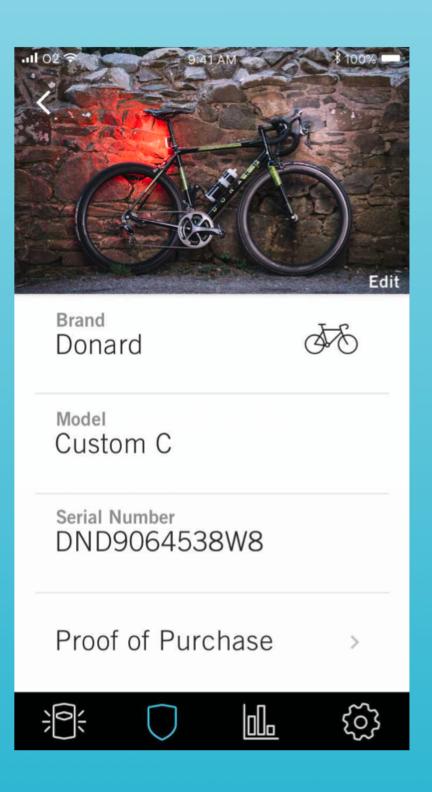
Cyclists opt in to the See. Sense community, giving access to a range of exciting features as well as providing data for the city.











DATA WITH SAFETY AT ITS CORE

We seek to contribute a comprehensive, standardised and trusted dataset that provides real-world evidence to inform transport policy, as well as the development of infrastructure.



SAFETY
Collisions & near miss data



ROAD CONDITIONS

Road surface quality data



PERCEPTION

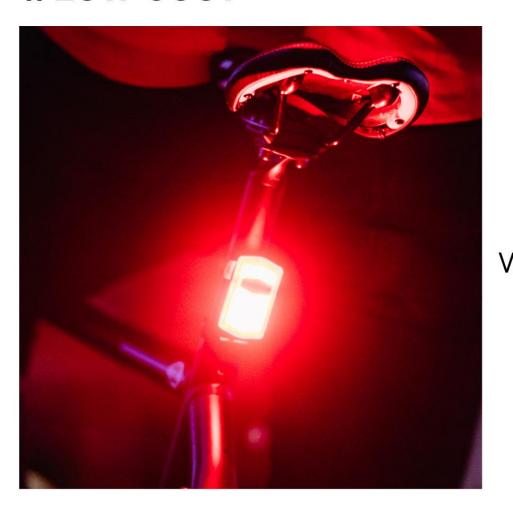
Understand experience of cyclists via qualitative surveys

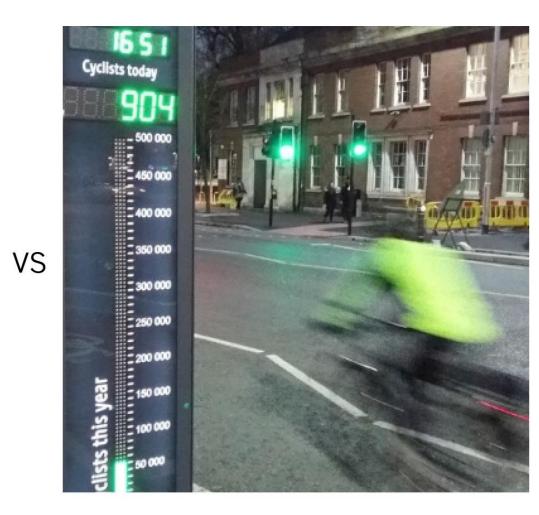


JOURNEYS
Origin-destination and journey
mapping data

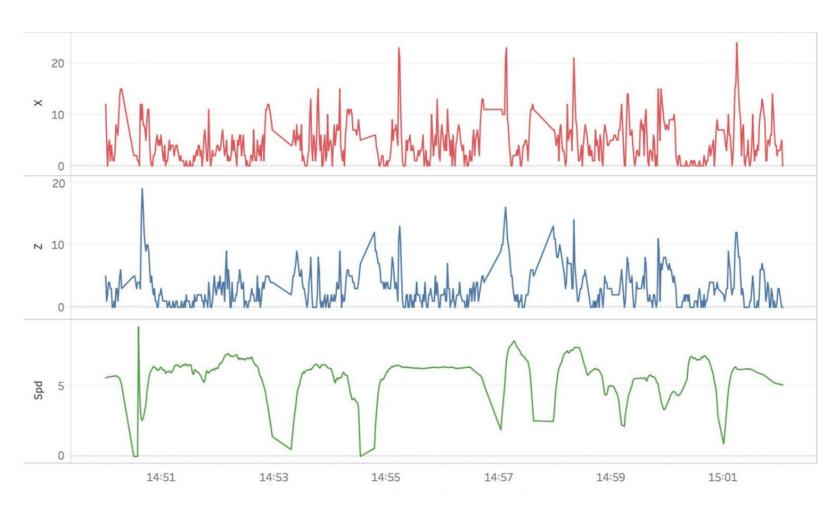
OUR SOLUTION BENEFITS FROM BEING

\\ LOW COST





\\ HIGHER ACCURACY AND WIDER RANGE OF DATA THAN APPS

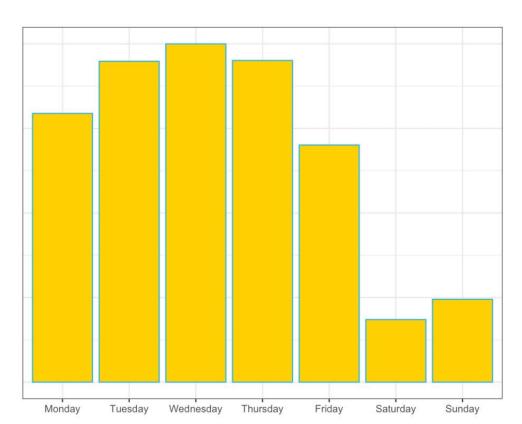


\\ HIGH REACH

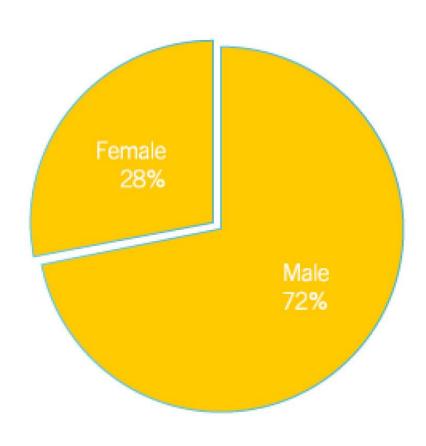


\\ MORE REPRESENTATIVE OF EVERYDAY/COMMUTER CYCLISTS

Popular Days of the Week



Male vs Female Participants



ENGAGEMENT OF PARTICIPANTS



400 cyclists apply

180 cyclists accepted

Months of data collection from Oct - Feb

137 cyclists collected data

385 annoyances recorded

4105 Total number of journeys

25489 Total distance covered (km)

SMART CITIES // MANCHESTER

MANCHESTER CITY TRIAL: THANK YOU! \\

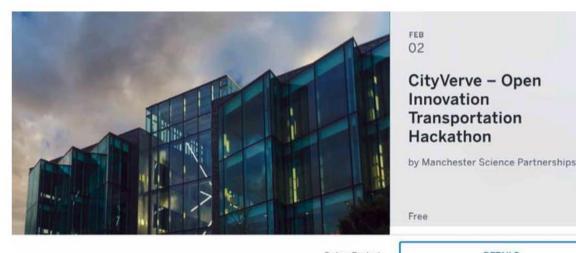
Thank you once again for your participation in the See.Sense Manchester City Trial, run in conjunction with BT and CityVerve.



Monthly Newsletter



Public Showcase



DETAILS

CityVerve is the UK's Internet of Things (IoT) smart cities demonstrator, taking place in Manchester. It brings together the brightest minds and pioneering uses of IoT technologies to

Sun, 4 Feb 2018, 19:00 GMT Add to Calendar

Hackathon



Participant Workshop

MANCHESTER MAPPED LIKE NEVER BEFORE

See. Sense Road Roughness Index overlay with Perception Data.

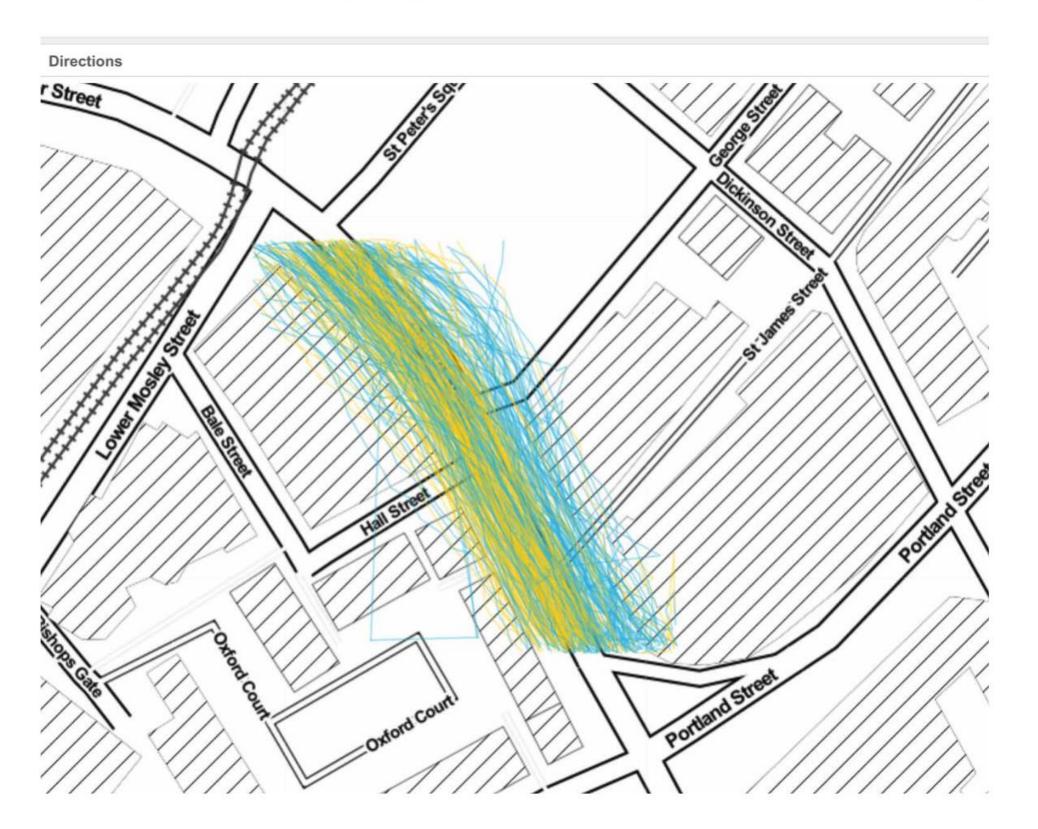
This map shows sections of road that have been identified as 'rough' (ranging from green 'slightly rough' through to amber 'medium' and red 'very rough'). It is overlaid with perception data (blue dots). These dots represent where someone reports something that annoyed or scared them on their journey.



EVIDENCE TO SHOW PERFORMANCEOF CYCLING INFRASTRUCTURE

These two images show the direction of cyclists on two different sections of road. In both images the yellow lines represent cyclists heading north and blue lines represent cyclists heading south. This section of Oxford Street at St Peter's Square does not have any cycling infrastructure and the delineation of direction travelled is less apparent. Oxford Road has well demarcated cycling infrastructure which results in clearer delineation as well as a higher average speed.

\\ 12.8 km/h Average Speed - Oxford Street, St. Peter's Square



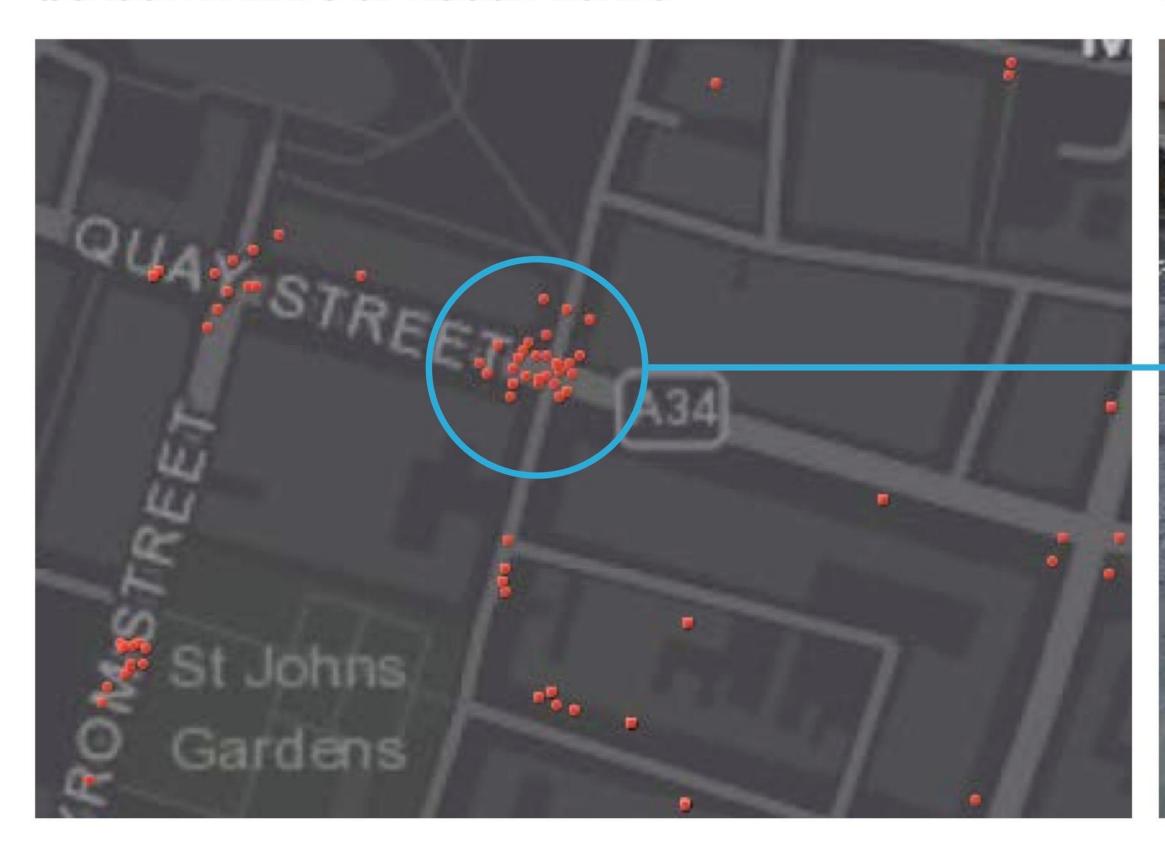
\\ 19.4 km/h Average Speed - Oxford Road



ROAD CONDITIONS MAPPED ACROSS THE CITY

Our road conditions data strongly correlates with visual, on site, inspection - highlighting areas of road roughness which may be detrimental to the experience of cycling in the city.

\\ CLUSTER MAPS OF ROUGH ROADS



\\ CORRELATION WITH POTHOLES

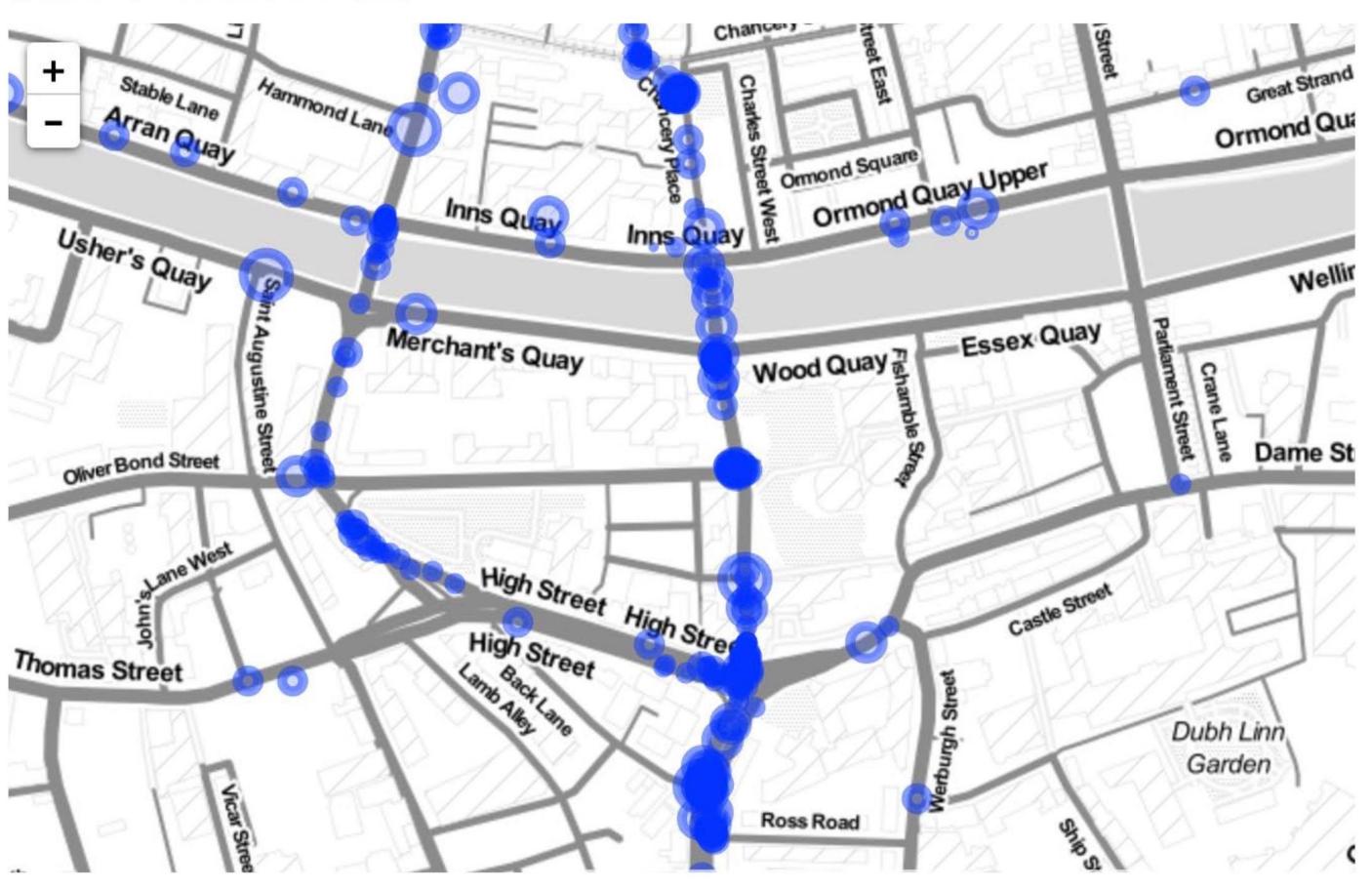


ENGAGEMENT WITH CYCLING COMMUNITY

\\ POPULAR WORDS

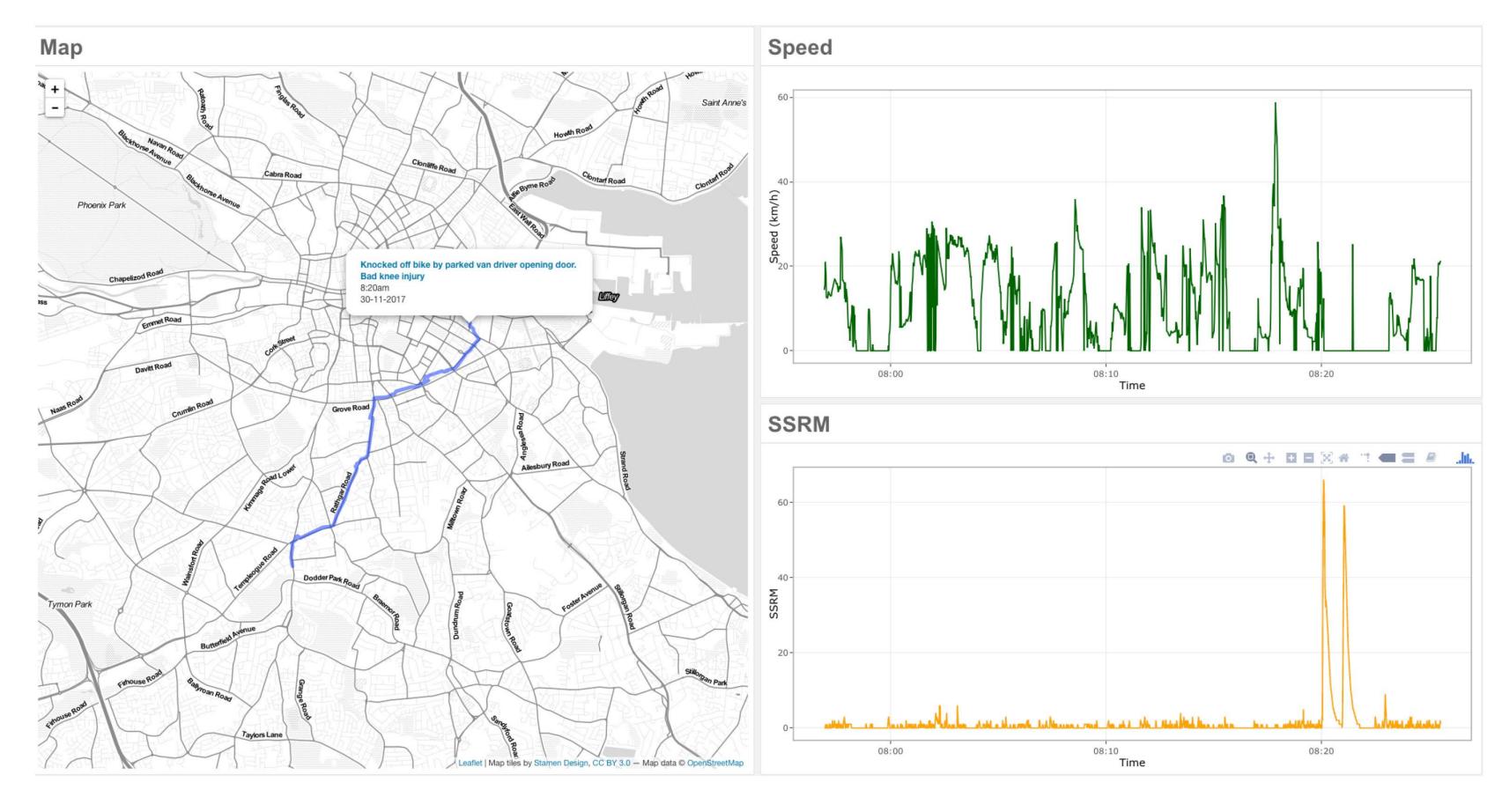


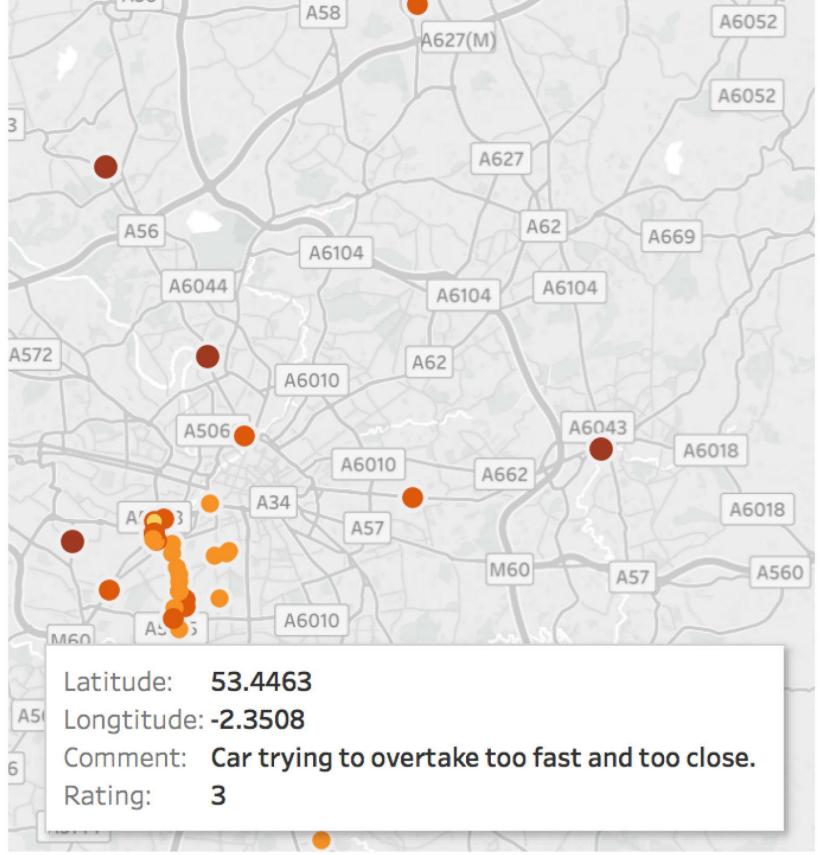
\\ MAP OF ANNOYANCES



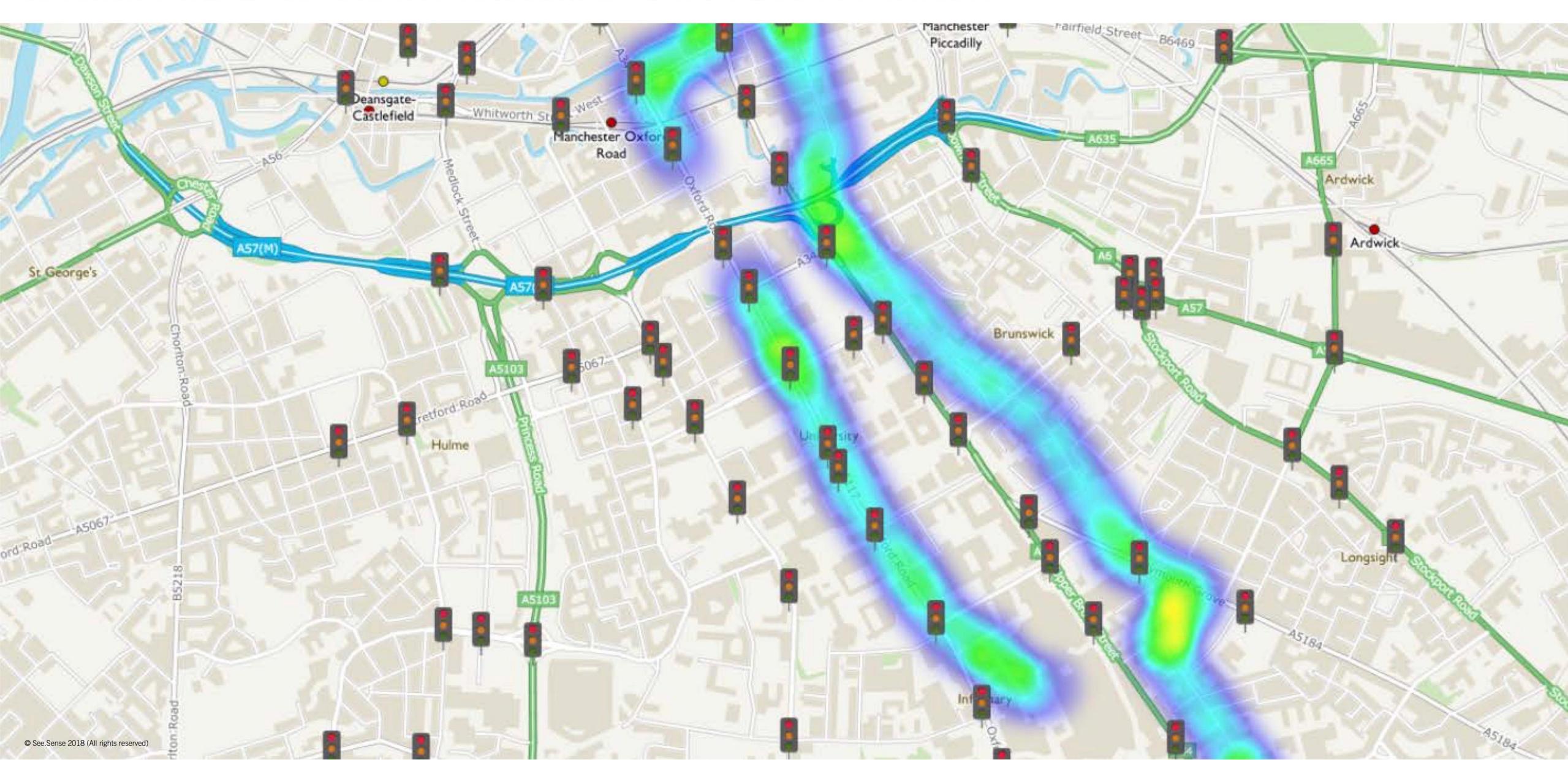
MAP COLLISION AND CLOSE PASS HOTSPOTS

Enabling proactive data based responses to improve problem areas





ABILITY TO GENERATE A MANCHESTER GREEN WAVE



CAPTURING INVISIBLE JOURNEYS (OUTSIDE THE DEPLOYED COUNTERS)

Ability to access the data from multiple heterogeneous sources in near real time can give better visibility of how city infrastructure is being used.

Figure 6 displays a view of two types of cycle counters — traditional physical ones (existing hardware on the road, in red) and virtual ones (in blue) created by the data collected from on-cycle tracking devices — shown together, enabling the city to gain better understanding as many journeys (purple) are not captured by physical counters.



What a smashing tech initiative. Bit of security for you, lots of info for

us to inform future infrastructure.

Chris Boardman



INTERESTED IN WORKING WITH US TO IMPROVE CYCLING CONDITIONS WHERE YOU LIVE?

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