Quantification of Utility of Atmospheric Network Technologies (QUANT)

• Real-world open and fully-traceable assessment of low-cost sensors and sensor networks, including calibration methods, across 3 UK cities over 2 years.

• Provide key information on the remaining challenges for these technologies and the extent by which current commercial or open-source algorithms and/or other low-cost devices can address these.

• Enhance the value of low-cost sensor data through the development of methods to extract new information on key pollutants.
Quantification of Utility of Atmospheric Network Technologies (QUANT)

**WP1:** Field assessment of a sub-set of commercially available low-cost sensor devices, as well as the calibration methods used, at the 3 supersites + 1 roadside site for a period of 2 years starting in summer 2019. Possibility of wider assessment during OSCAR field intensive? (York lead)

**WP2:** A field assessment of calibration methodologies for low-cost sensor networks. (Cambridge lead)

**WP3:** Developing novel source apportionment techniques that utilize low-cost sensor ensembles, at the Birmingham supersite. (Birmingham lead)
QUANT – wider participation study

Increasing the reach of the QUANT WP1 commercial technology assessment (currently limited to a handful of most “established tech)

Offer inclusion of other sensor devices in the QUANT assessment during the OSCA field intensives:

Winter observation period: 20th January to 28th February 2021
Summer observation period: 8th June to 17th July 2021