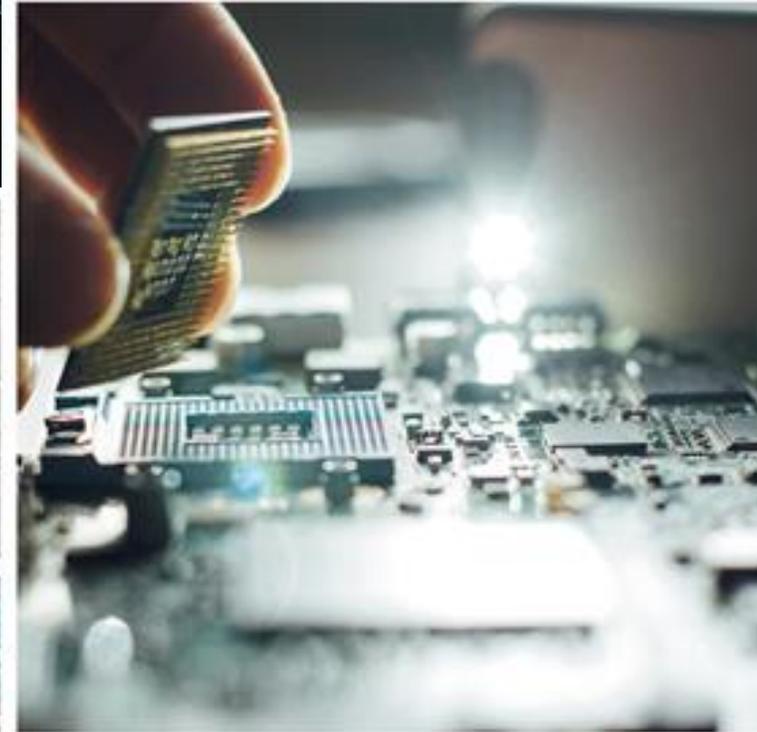
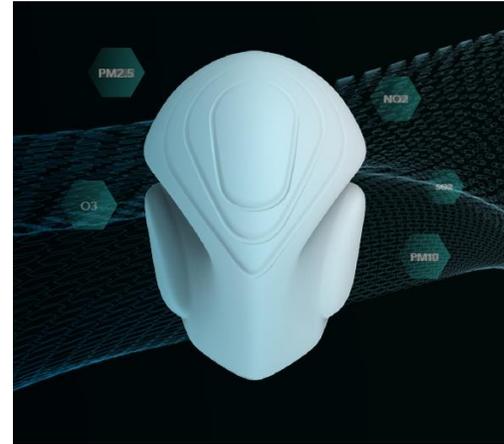




Before you tackle it...

You must first Measure it!



ULEZ MONITORING

Vehicle & noise detection to support Low Emission Zones.

POLLUTION SOURCE APPORTIONMENT

Data analysis on weather conditions and air quality related to traffic providing information to drive behaviour change.

POLLUTION HOTSPOT DETECTION

Real time continuous monitoring for evidence based decision making.

GEOFENCING

Monitoring hyperlocal air quality levels to improve health outcomes.

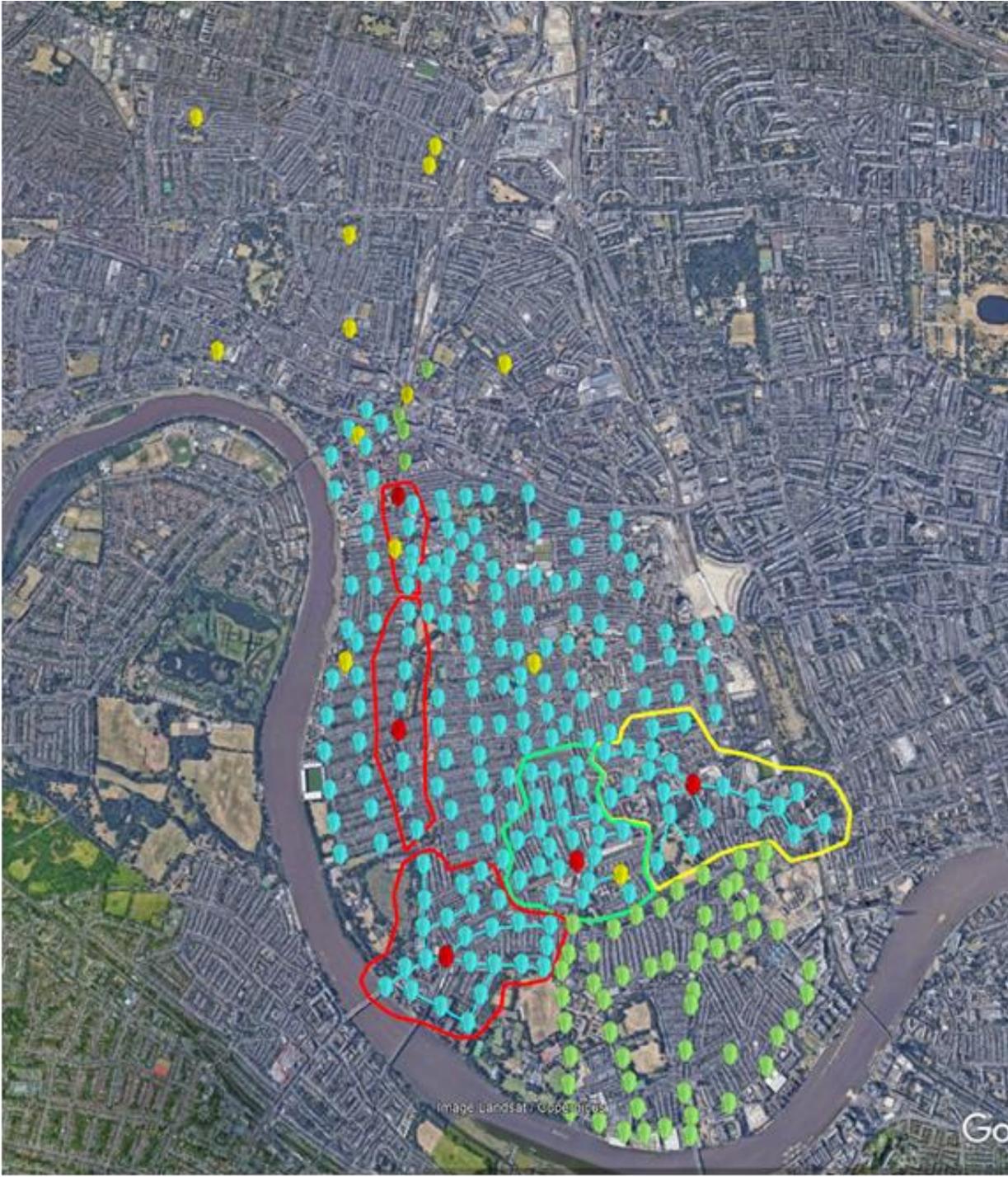
Our Device



“We are using 2020 tech solutions to tackle the decades-old problems of traffic congestion and air pollution.”

“H&F was one of the first boroughs in the country to declare a climate emergency and this trailblazing air quality monitoring project will inform further initiatives to reduce traffic, congestion and pollution.”

Cllr Wesley Harcourt



- Multiple Gas & Particulate Monitoring
- Fit & Forget
- End to end system
- Over the Air Updates
- Low-cost, high accuracy & carbon efficient
- Fully Automated = Paradigm shift

Neath & Port Talbot

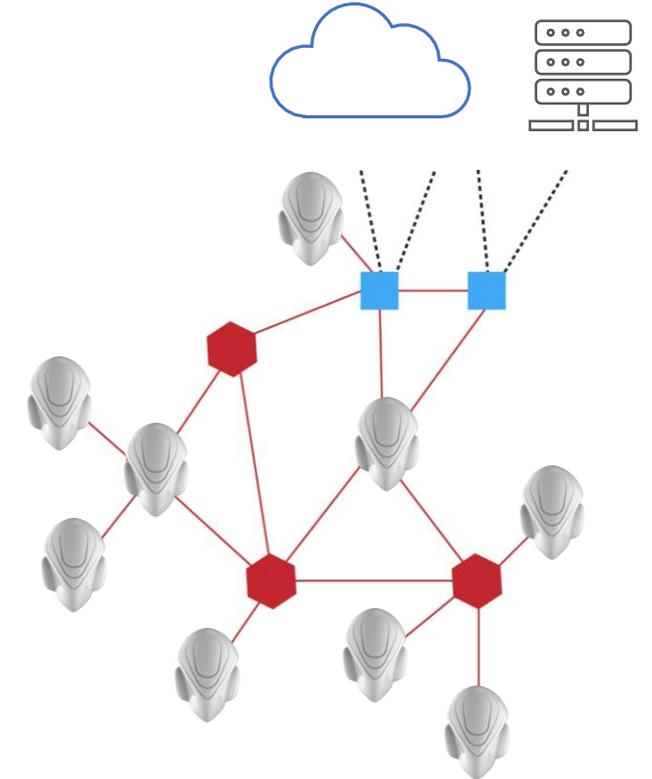
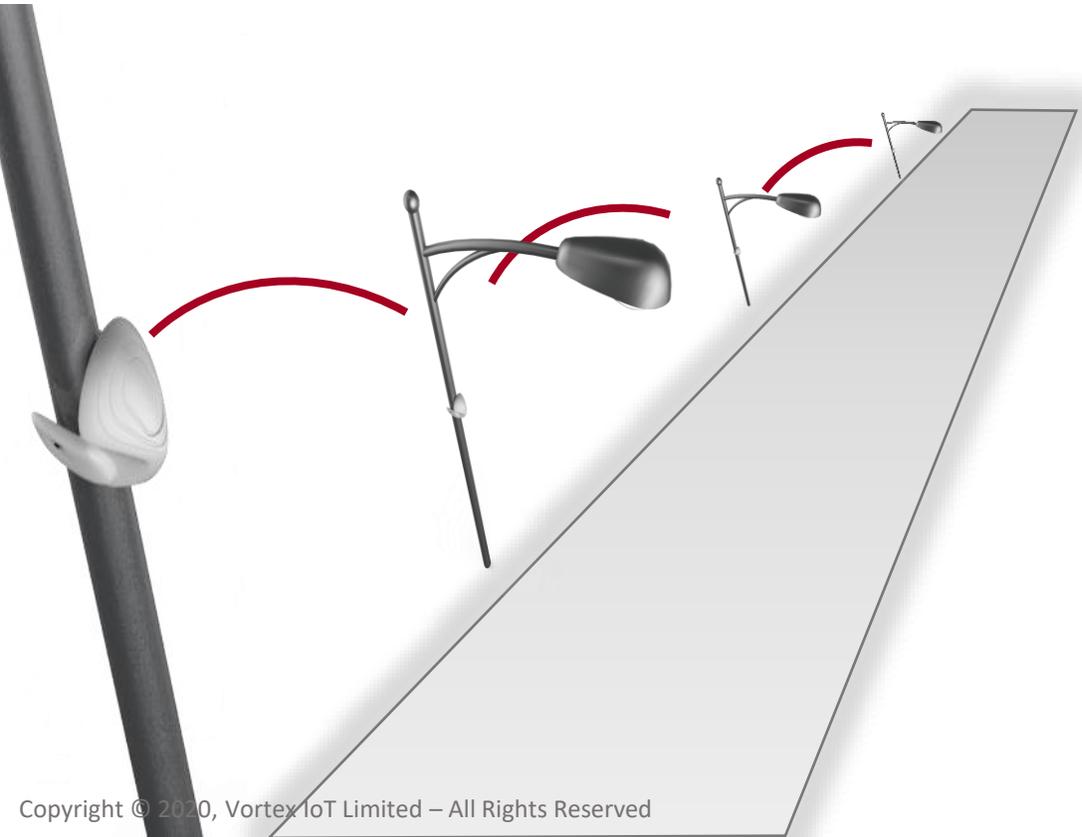


Neath-Port Talbot
Proposed Deployment Areas

- Legend
- Potential Mesh Links
 - AQM Devices
 - Margam - Linear Deployment 0.92 sq-km
 - Port Talbot - Perimeter Deployment 6.34 sq-km
 - Talbach - Dense Deployment 0.83 sq-km

AURN Co-location

Data Transmission



Vortex Mesh² Network

- Self-contained Wireless Mesh Network for data transmission
- Can reach to 3km using line-of-sight routers
- Low Cost of Ownership (SIM-free wireless connectivity)
- Multi channel access in 2.4GHz (16 Channels)
- Self-healing, self-organising network for resilience
- OTA firmware update for fit-and-forget capability

Trade-off



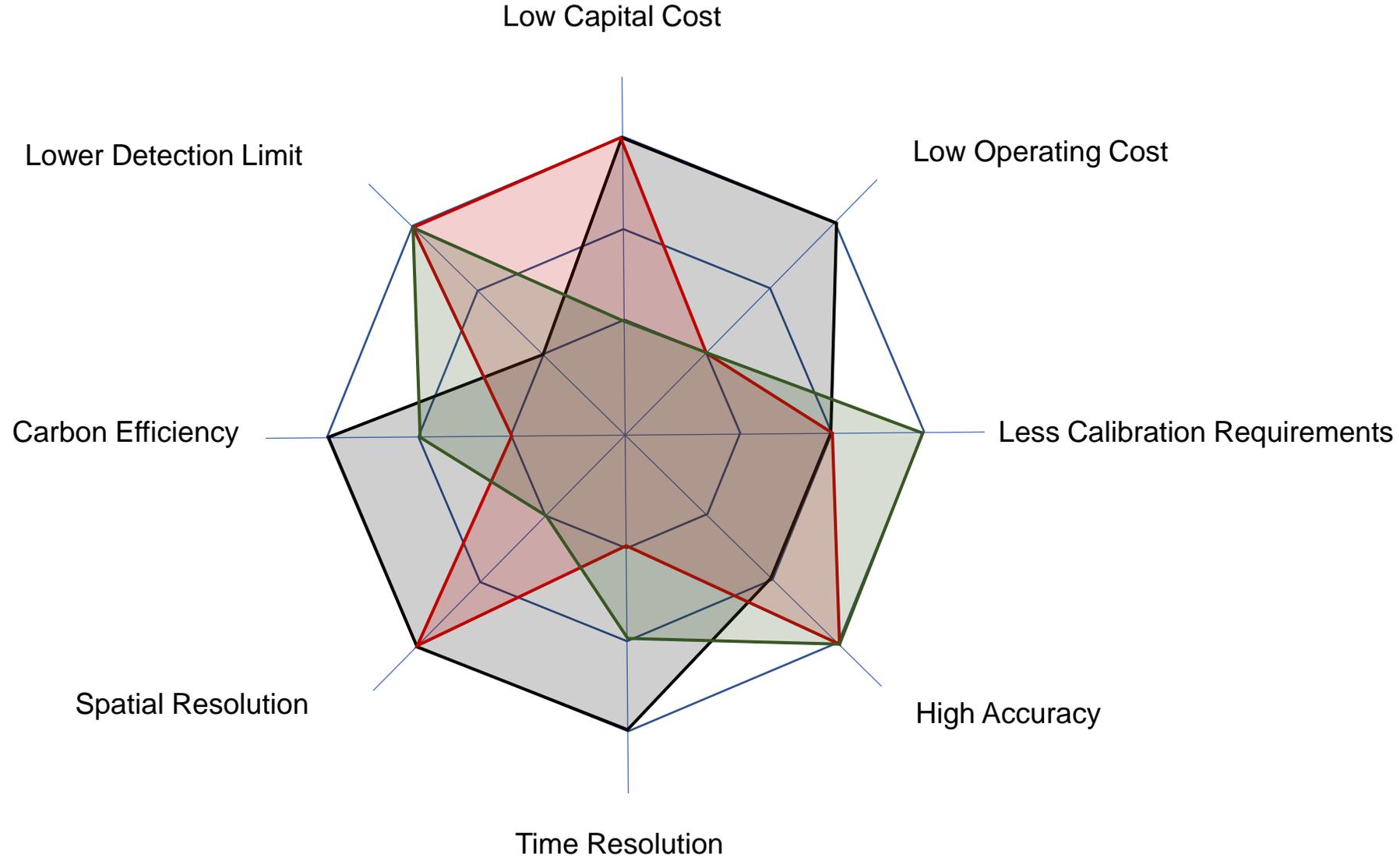
Passive diffusive samplers



Environment Control
Chemiluminescence and UV
absorption Sensors
Filter Dynamics Measurement System
(FDMS).or Tapered Element
Oscillating Microbalance (TEOM)



Self-cleaning mechanism
Electrochemical Sensors
Optical Light Scattering Sensors



Further Contact.....



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