



PRESS RELEASE

Air quality and electric vehicle innovators from the UK and India to showcase in Clean Air Street

7th November 2020

DULT (Directorate of Urban Land Transport) in collaboration with the UK Catapult Network and the Indian Institute for Science are launching the Clean Air Street initiative, creating a citizen-centric environment to showcase air quality and electric vehicle (EV) innovations from the UK and India.

Under the Clean Air Street initiative, Church Street in Bengaluru will be closed to motor vehicles every weekend from 7th November 2020 to 28 February, 2021. While the street will be closed for motorized traffic except for emergency vehicles and vehicles of residents, the area will be open to green forms of transportation and transformed into a demonstration area for other clean air innovations. Residents of Church Street will be given special passes to enable them to use their personal vehicles to move in and out of Church Street.

Through doing this the organisations aim to reprioritize clean mobility and showcase UK and Indian solutions while demonstrating the benefits these bring. DULT also intends to use the insights gathered from this initiative to shape policies relating to pedestrianisation of streets in Karnataka.

In addition:

- The Indian Institute of Science will be carrying out research to gauge the impact of the initiative on the quality of life of local residents as well as the economic impact on businesses
- The Catapults will be working with EV innovators to increase citizen awareness of EV technologies and understand customer satisfaction after test rides
- The Catapults will be working with partners to measure the difference the initiative makes to air quality on Church street
- **The Bruhat Bengaluru Mahanagara Palike (BBMP), Karnataka State Pollution Control Board (KSPCB) and the Bengaluru Traffic Police will be extending assistance during implementation**

The ten small and medium-sized (SMEs) enterprises from the UK and Bangalore supported by the Innovating for Clean Air (IfCA) programme led by the Catapult Network who will be showcasing their innovations in the street, include:

- [Airhead](#) - Airhead is taking the fight to air pollution and improving outdoor safety in cities. They have created an innovative pollution mask to protect people in urban areas from the negative health effects of air pollution.

Airhead is working in collaboration with Brunel University in the UK and their team of expert designers, scientists and researchers. The Airhead mask will protect people from particulate matter





CATAPULT

and harmful gases found in city air, and therefore reduce the risk of the most common health problems related to air pollution.

- [Altigreen](#) - Altigreen is on a mission to eliminate vehicular emissions without compromising on mobility. To achieve Carbon Free Transportation, they have created world class electric vehicle technology for 'last mile transportation' (ie. movement of people and goods from a transport hub to a final destination). Designed especially for India and other developing countries; imagined and created in India; 100% Made in India; this technology is ushering in a new age of powerful, efficient and affordable last mile mobility.
- [Ambee](#) - Ambee provides accurate hyperlocal air-quality data in real time, improving lives, productivity, business outcomes, and even public health and governance. Ambee's data is used in countries and industries across the world.

Their proprietary data-science, backed by possibly the world's largest private air quality data set, provides solutions on a previously unseen level. Their projects and partners include insurers, health and wellness providers, Fortune 500 companies in aviation, mobility and electronics, large manufacturers, and energy majors.

- [Atmospheric Sensors](#) - Atmospheric Sensors Ltd. (ASL) is a young company vigorously exploiting a new, digital, approach to gas sensor management that allows the aggregation of a range of sensing technologies to achieve enhanced reliability, sensitivity and selectivity. Two of the principal product lines address ambient air quality, which is monitored by fixed-site units and by wearable monitors, respectively, each deploying the multi-technology approach, which is the core signature of the Company's products.

The units deploy electrochemical sensors, (metal oxide sensors can optionally be included in the system), an NDIR sensor for carbon dioxide, a particle monitor, relative humidity monitoring and temperature measurement

- [BuymyEV](#) - BuymyEV's IoT-enabled cloud-connected electric bikes on a subscription model provide mobility solutions for first/last/short-mile commute. Their mission is to make hyperlocal commute clean, green & tech-driven.

BuymyEV's eBikes are a clean mobility solution, designed for commuters with an aim to reduce carbon emissions in polluted cities. To accelerate progress in tackling the challenge of urban air pollution, BuymyEV is also looking to collect air quality data by fitting sensors on the vehicles.

- [Elon Motors](#) - Elon Motors Engineering works towards creating sustainable urban mobility. They believe in pedal-assisted electric bicycles as the future of urban transportation. AURITA F is a Folding Utility Electric Bicycle, a bicycle to go everywhere.

This is one of the most compact and lightweight folding electric bicycles that folds into a compact 120L volume using a unique patent-pending folding technique. AURITA C is a Cargo Utility Electric Bicycle, a bicycle for everyone. This is one of the most versatile and Multi-utility Cargo electric bicycle with 150kg payload capacity.





CATAPULT

- [Greendzine](#) - Greendzine is a Bengaluru based product company that specialises in electric vehicles for leisure, personal use and industrial application. Currently Greendzine has six product variants in the market, this includes a charger, bidirectional vehicle and liquid battery.

Greendzine’s bidirectional vehicle is already sold for use in warehouses. The vehicle costs includes additional features designed for industry such as a path optimisation algorithm, barcode scanner, analytics platform and package sorting.

- [JAL Technologies](#) - JAL manufactures devices (“Prkruti”) which use low power IoT sensors to monitor air pollution and weather conditions. Their mission is to make citizens aware of the impact of poor air quality and help them adjust their routines to mitigate this impact.

- [Mastie Bikes](#) - Mastiebikes is targeting young people with an affordable, versatile and durable electric bicycle. By driving adoption amongst a younger demographic, Mastiebikes aims to embed a new set of transport behaviours into this generation, helping reduce air pollution and greenhouse gas emissions. Their bicycle, which is manufactured entirely in India, has a battery with excellent storage capacity and which is easy to swap in and out, reducing concerns about running out of charge.

- [Transvahan](#) - Transvahan Technologies is a growing business engaged in providing sustainable mobility solutions: manufacturing battery operated electric vehicles and automotive components, as well as offering consulting and training solutions in the automotive, clean-tech and aerospace sectors.

The company offer green transport solutions designed with societal needs in mind. Their E-Carts have now been modified for new applications such as solid waste management and use in food courts.

In addition, [Pixuate](#) an AI based software product Development Company supported by Startup Karnataka will be showcasing its thermal analytics software for COVID related enforcement.

Notes:

About the Innovating for Clean Air (IfCA) programme

From the UK end, the IFCA programme is funded by Innovate UK, part of UK Research and Innovation (UKRI), through the Newton Fund and delivered by Energy Systems Catapult, Connected Places Catapult and Satellite Applications Catapult. From the India end, it is a partnership of matched resources with various organisations in Karnataka and India both in Government and private sector.

The IFCA programme aims to support UK and Indian firms to develop innovations to improve air quality and tackle pollution at source in Bengaluru by addressing challenges related to charging infrastructure, grid management and the integration of renewable energy.





CATAPULT

About the UK Catapult Network

The Catapult Network brings together nine elite technology centers established by Innovate UK as a long-term investment in the UK's economic capability. Through cutting-edge R&D infrastructure, partnership building and specialist knowledge, Catapults help businesses accelerate the development, deployment and adoption of new technologies, bringing valuable products and services into existence to compete in global markets of tomorrow.

