



# Geo.Geo Surveying

## Big Data From The Sky

GeoGeo is an award winning mapping company that helps communities, governments and business adopt cutting edge mapping platforms. We pioneer the use of unmanned aerial systems (UAS) to capture near real time geographic information from above.

As a thought leader in the smart city applications of geospatial technologies, GeoGeo combines expertise in geographic information science (GIS), social sciences and web/mobile development to design and deliver innovative mapping solutions to the majority world. In 2014, we began monitoring the environment from above, providing citizens and local planners with up-to-date information where they need, when they need it.



This is our Sensefly eBee "Aimee", which in January 2014 made GeoGeo the UK's first (and currently only) CAA approved UAS flight team allowed to operate over urban areas and motorways.

## The Future of Surveying

### Timely, Low Cost & On Demand

Our compact fixed wing can be transported anywhere, allowing us to capture imagery when we need it; whether during a key phase of a project or when rapidly responding to an event or incident.

All this at a fraction of the cost and resources previously offered by traditional sources, such as surveys from manned aircraft, satellites or ground teams.

### Safe Data Acquisition

Our ultra-lightweight (<1KG), non-invasive and autonomous fixed wing drones removes the need to disrupt the world below.

### Aerial 'Big Data'

GeoGeo survey teams can currently capture up to 5km<sup>2</sup> per day with a resolution of just 3cm, with oblique photography enabling sub-cm resolutions! It's fair to say we're creating a new wave of datasets for our cities and campuses.

Different sensors (such as near infrared and thermal light) enable us to provide information for a wide range of engineering and environmental applications.

Our geospatial experts add value to these datasets, turning them into actionable information through advanced spatial analysis and geo-visualisation.

### Smart Applications

By lowering the barriers of access to near real time, high resolution aerial imagery within our cities, GeoGeo is unlocking a host of new and exciting applications supporting our transition towards a low carbon future.

Here we explain just a few examples to help you understand how our imagery is creating new

insight into our built environment and creating smarter information management that brings everyone together under 'one geography'.

### Climate Resilience

Within urban environments, 3D analysis can help support a wide range of environmental applications, such as hyper-local flood modelling or identifying potential solar PV system locations. Our ability to re-survey, enables us to understand changes to this environment like never before.

### Urban Green Infrastructure

Using near infrared light sensors, "Aimee" provides near real time information on the state of our plant life and environment at any given.

This type of recurring Earth observation allows us to monitor our environment over time (known as temporal-spatial analysis), enabling us to track patterns, identify green corridors and measure the impact of biodiversity projects.

### Utilities & Infrastructure

Resolution matters. For infrastructure, our imagery provides a highly accurate georeferenced platform from which important features and assets can be identified, mapped and monitored with survey-grade precision. We provide this to BIM, CAD & GIS teams in a variety of formats tailored to industry standard

### Creating 3D Mirror Worlds

Beyond data provision and analysis, we provide our initiatives with a 3D smart atlas platform from which to easily view, analyse and understand our aerial imagery, as well as integrate your own datasets and sensor information.

Demonstrations and prototypes now available using 2D/3D web GIS, virtual reality and 3D holographs.