

Innovation and the Extending Reach of Geospatial Intelligence



The need for geospatial intelligence has never been so great. Today's global challenges are reinforcing a growing requirement for precise location information and situational awareness insight about assets, resources, vehicles and people. This is for economic reasons as well as environmental and societal ones.

The importance of the sector is also reflected in the UK's Geospatial Strategy, "[Unlocking the power of location](#)" as recently launched by the [Geospatial Commission](#).

Underpinning technological advances

The convergence of some core technology developments, including many associated with Industry 4.0, is driving advances in geospatial solutions and the opportunity for further innovation.

With the emerging digital era and developments in sensors both on the ground and above, data quality and volume is increasing. At the same time, advancing techniques in the application of artificial intelligence (AI) are unlocking data potential. Developments in connectivity also help enable faster data transmission, pervasive computing, the internet of things (IoT), ongoing improvements in positioning systems and autonomy.

Due to increasing capability, affordability and global reach, satellite technology is becoming more relevant. The Global Navigation Satellite System (GNSS) is an established source of location information and advancing Earth Observation (EO) technologies provide scalable, repeatable imagery with various levels of resolution and as video. With reducing costs and latency, satellite communication and hybrid receivers are also enabling ubiquitous connectivity.

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