



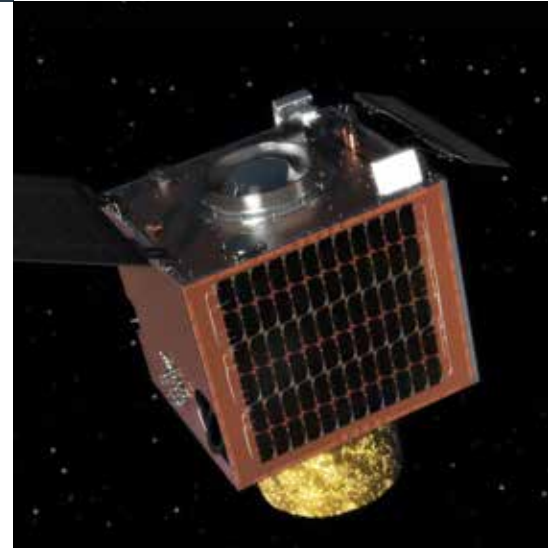
## Colour Video from Space

### The Vivid-i Constellation by Earth-i.

The Constellation provides a rapid response service delivering very high-resolution full-colour, full-motion video and still imagery of anywhere on Earth.

The first satellite in the Vivid-i Constellation, VividX2, launched on 12 January 2018 into sun-synchronous polar orbit at 505km, and delivers the world's first colour video from space capability. VividX2 acquires still imagery and colour video at 1m resolution, and offers multiple imaging modes and rapid data downlink.

VividX2 provides a new, unique layer of data offering deeper insights.



### Video from space unlocks new capabilities in geospatial intelligence.

- \_ Context and insights in the 4th dimension
- \_ New layers of information
- \_ Moving object identification and vector extraction
- \_ Higher granularity 3D and Digital Elevation Models
- \_ Variable exposure times for night imaging
- \_ Multiple frame stacking for enhanced resolutions

The Vivid-i Constellation captures detailed images, pattern of life information, moving picture context and target intelligence using very high-resolution colour video sensors to provide enhanced awareness in all environments.

With unique imaging and video capabilities the constellation provides new layers of information not previously available on the commercial market. Vivid-i enables more effective 3D modelling with 4D context, of any location on Earth from high frame rate data acquisition and advanced analytics.

Each Vivid-i satellite will be available for rapid tasking, with multiple revisits of any location, every day. The extensive ground segment ecosystem will allow for near-real time data download and delivery for fast response to client needs.



Global. Timely. Assured

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Earth-i is a leading global Earth Observation company, based in the UK, providing very high-resolution satellite imagery and a range of data services for advanced analytics and insights.



Automated Change Detection

## The Vivid-i Constellation Capabilities

Parameter	Specifications:
Satellite Constellation	Minimum 15 satellites launched in batches of 5, further batches in line with demand
Resolution	60cm still and video
Video	Max 2 mins per AOI
Orbital Altitude	500km
Image size	5.2km x 5.2km Fixed frame geometry
Bands	3 band true colour, Bayer filter
Re-visit	Minimum 3 re-visits per day globally†

† Higher frequency re-visits available on deployment of additional spacecraft



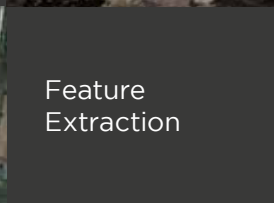
2D/3D Modelling



Feature Extraction



Object Recognition and Classification



Moving Object Identification & Analysis



Mapping & Land Use Classification

