

intelligent data from space

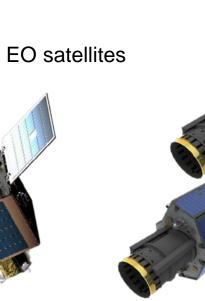
Richard Blain, CEO Earth-i Ltd Satellite Video Constellations – Mastering the Fourth Dimension of Earth Observation

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Earth-i

- Supply data globally from the DMC3 / TripleSat and KOMPSat Constellations
- Co-funding SSTL's "Carbonite" MicroSat project
- Launching a constellation of very high resolution video & still EO satellites
 - Tech demonstrator launched July;15
 - Pre-production prototype scheduled for launch Jan'18
 - Systems for image handling and data analytics
- Commercial deployment of British Innovation
- Rapidly growing company







Context

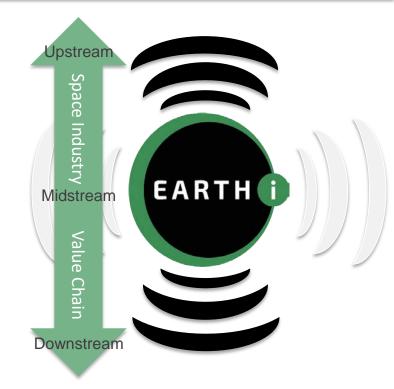
The midstream satellite operator role is crucial part of UK EO market

Creates pull through of upstream technology and launch

Creates greater opportunities for downstream applications







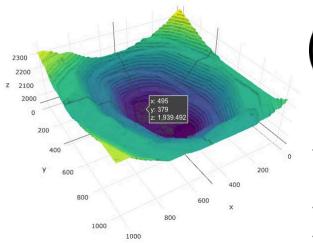
EARTH

Mastering The Fourth Dimension



✓ Satellite imaging offers the ONLY way to observe any global location at short notice.

✓ Opportunity to expand operational use and range of applications by increasing temporal resolution





In general, satellites pass the same time each day (SSO) for optimal atmospheric and lighting conditions, a historical necessity for high value assets.

- Earth-i's constellation offers high temporal re-visits, throughout the day.
- Video provides utra-high temporal; up to 50fps
- Fuse this Planetary Big Data with other data sources

Mastering the Fourth Dimension

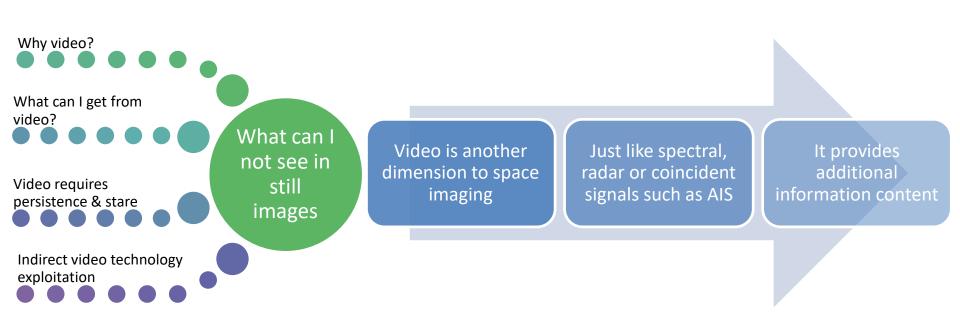


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Earth-i's constellation will provide opportunities throughout the day and night, with satellite rollout from 2019

Each opportunity provides a period of video coverage

The thinking around small satellite video

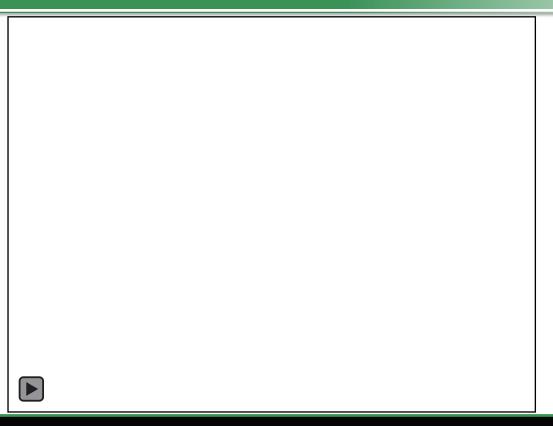


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Actual Satellite Video (Launched 2015)



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Simulated Satellite Video (next launch Dec'17)





Simulated video

Accurate 3D model from every video

Hundreds of new applications

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Automated Analytics Capabilities



Automated Mapping



Object Recognition





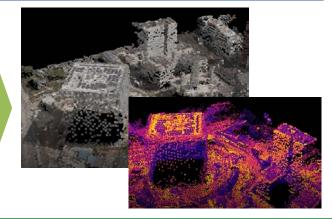
Extraction of 3D Model and Point Cloud from Satellite Video

Velocity Vector Extraction from Satellite Video









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Earth-i Constellation

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Deploying a large constellation of EO satellites capturing still and video images

Offering temporal, spatial and thematic advances

Provides a new data type for the UK and Europe, to lead the world in analytics





Thank you



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