



**RELIABLE  
INSIGHT**

# ABOUT

## EUROPEAN SPACE IMAGING

Based in Munich, Germany and established in 2002, European Space Imaging is the leading premium supplier of global very high resolution (VHR) satellite imagery and derived services to customers in Europe, North Africa and CIS countries.

With over 16 years' experience, European Space Imaging has developed a reputation for expert and personalised customer service and an unbeatable track record for supplying tailored very high resolution imagery solutions to meet the diverse projects and requirements of their customers.

Furthermore, European Space Imaging is the only European satellite data provider to supply imagery at true **30 cm** resolution and who own and operate its own multi-mission ground station for direct satellite tasking and local data downlink.



# MOVING FORWARD

Initial cooperation with the EU Commission & other government bodies established a relationship that continues to this day.

The launch of WorldView-3 as well as loosening regulations ushers in a new era with 30 cm resolution capabilities.

Expanding reseller & partner network of more than 60 across Europe and North Africa

2002




European Space Imaging established in Munich, Germany. To lead with the best, a partnership with Space Imaging / GeoEye was formed.

2004




Initial cooperation with the EU Commission & other government bodies established a relationship that continues to this day.

2010



WorldView Global Alliance partnership formed with DigitalGlobe and Space Imaging Middle East.

2014




The launch of WorldView-3 as well as loosening regulations ushers in a new era with 30 cm resolution capabilities.

2017



Significant investment to upgrade the Constellation Direct Access Facility, allowing direct downlink to the WorldView Constellation near Munich, Germany.

2020



Expanding reseller & partner network of more than 60 across Europe and North Africa



## INTELLIGENT COLLECTION PLANNING

Our expert staff is able to fully customise collections to meet challenging customer project requirements. Each collection is meticulously planned right up until 15 minutes before every pass to allow for maximum flexibility and to ensure we get the best possible image, each and every time.

## REAL-TIME WEATHER ASSESSMENT

Our manual real-time weather assessments are updated every 15 minutes to maximise pass collection and react quickly, taking into consideration several environmental factors including expected cloud cover, available sunlight and the time of day. Post collection, cloud cover calculations are performed both automatically and manually so we can confidently meet our guarantee of less than 15% clouds per AOI.

## NEAR REAL-TIME DELIVERY

Through use of our ground station, we have direct uplink and downlink to the WorldView satellites. This allows for near real-time delivery with collections delivered between 30 minutes and 3 hours, 7 days a week.

## EXPERIENCED CUSTOMER SERVICE

We have a dedicated customer support team available around the clock. Each employee has a master degree in geography, geodesy or related science. The team supports more than 1,700 customers from 59 countries in Europe, North Africa and CIS countries and processes 3,500-4,000 orders each year.

## VERY HIGH RESOLUTION

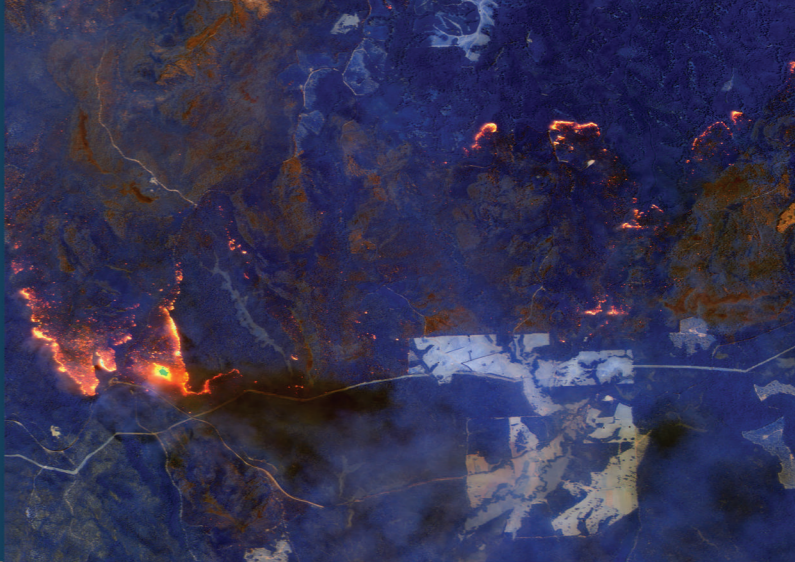
We are currently the only European satellite data provider able to provide true 30 cm resolution spatial imagery. In addition to 30 cm resolution imaging, we are also able to offer 40 cm and 50 cm satellite imagery for projects requiring less detail. The geolocational accuracy of the satellite data provided by European Space Imaging is currently the highest commercially available at up to 3 m CE90 without ground control points.

# PERSONALISED OFFERING

# APPLICATIONS

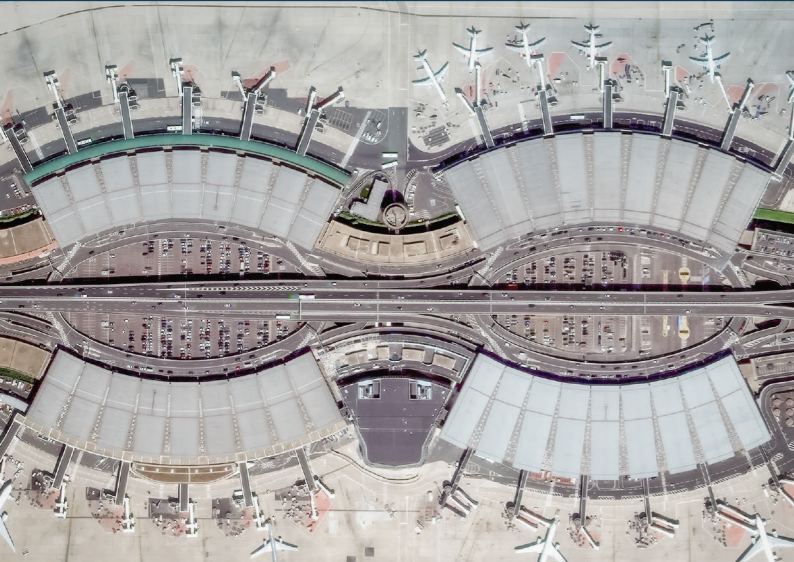
## EMERGENCY MANAGEMENT

- Predict Likelihood of Fires
- Estimate Path of Flooding
- Detect Geological Movement
- Aid in Development Planning
- Analyse Effects of Disaster
- Crowd Management
- Insurance Analysis
- Response Implementation



## CIVIL GOVERNMENT

- Urban Planning
- Migration
- Asset Management
- Disaster Response
- Utilities Management
- Sustainable Development
- Maintaining Cadastral Maps
- Monitoring Compliance



## DEFENCE & INTELLIGENCE

- Movement of Equipment
- Damage from Attacks
- Offensive / Defensive Systems
- Test Camouflaged Bunkers
- Mission Planning
- Search & Rescue Operations
- Precise Mapping
- Movement of People



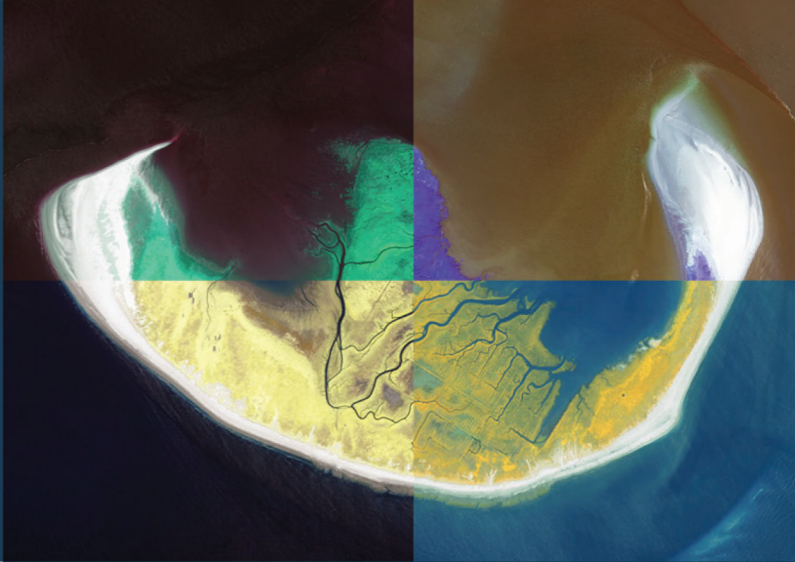
## MARITIME SURVEILLANCE

- Identification of Vessels
- Detection of Illegal Fishing
- Detection of Pollution
- Validation of AIS Data
- Detection of Coastal Erosion
- Identification of Algal Blooms
- Bathymetric Data Analysis
- Updating Navigational Maps



## EDUCATION & RESEARCH

- Environmental Monitoring
- Impact Assessments
- Monitor Urban Development
- Monitor Soil Losses
- Disaster Impact
- 16 Band Spectral Analysis
- Machine Learning
- Monitoring History Data



## AGRICULTURE & FORESTRY

- Early Warning of Plant Health
- Yield Calculations
- Optimising Harvest Timing
- Irrigation System Planning
- Soil Quality Management
- Water Resource Management
- Calculating Carbon Stocks
- Natural Resource Protection



## ENERGY & MINING

- Asset Management
- Competitor Auditing
- Resource Exploration
- Compliance Analysis
- Material Detection
- Leak Detection
- Pipeline Mapping
- Inventory Analysis



In 2017 we made a multi-million Euro investment in our ground station, located near Munich, Germany. This enables us to communicate directly with the WorldView constellation.

# SATELLITES



WorldView-1	GeoEye-1	WorldView-2	WorldView-3	WorldView- Legion
2007 Launch	2008 Launch	2009 Launch	2014 Launch	2020/21 Projected Launch
50 cm Resolution	41 cm Resolution	46 cm Resolution	31 cm Resolution	Significant increase in revisit & VHR capabilities
Panchromatic Sensor	Panchromatic + 4 Multispectral bands	Panchromatic + 8 Multispectral bands	Panchromatic + 16 Multispectral bands	
496 km Altitude	681 km Altitude	770 km Altitude	617 km Altitude	
1.3 million km <sup>2</sup> per day	350,000 km <sup>2</sup> per day	1 million km <sup>2</sup> per day	680,000 km <sup>2</sup> per day	
<4.0m CE90 Accuracy	3.0m CE90 Accuracy	3.5m CE90 Accuracy	3.5m CE90 Accuracy	

## 3D PRODUCTS

Whether your mission is to plan for a security crisis, or to sustainably manage an urban environment, seeing the world as it really is can be the difference between success and failure. We offer a complete range of visualisation packages – regardless of the resolution you require or the size of your AOI, we have a solution to suit your project and budget.

## DIRECT SATELLITE TASKING

Direct satellite tasking can significantly increase the effective collection capacity of the satellites to obtain the greatest quality image with minimal cloud coverage. Our expert staff work with customers to ensure the right image is delivered. We conduct a feasibility analysis before each order to suggest a good window in which to collect the image incorporating real-time weather assessments to maximise the chance of a cloud-free and reliable image. Additionally we provide flexibility with the opportunity to cancel the order up to 24 hours prior to collection.

## CLOUD-BASED IMAGERY SOLUTIONS

Through our partnerships, we offer web services with powerful hosting infrastructure, giving users access to current, very high resolution imagery and geospatial information from desktops and mobile devices around the world. We have solutions for every application allowing you to monitor areas of interest, detect any changes and stay up to date with the latest data available.

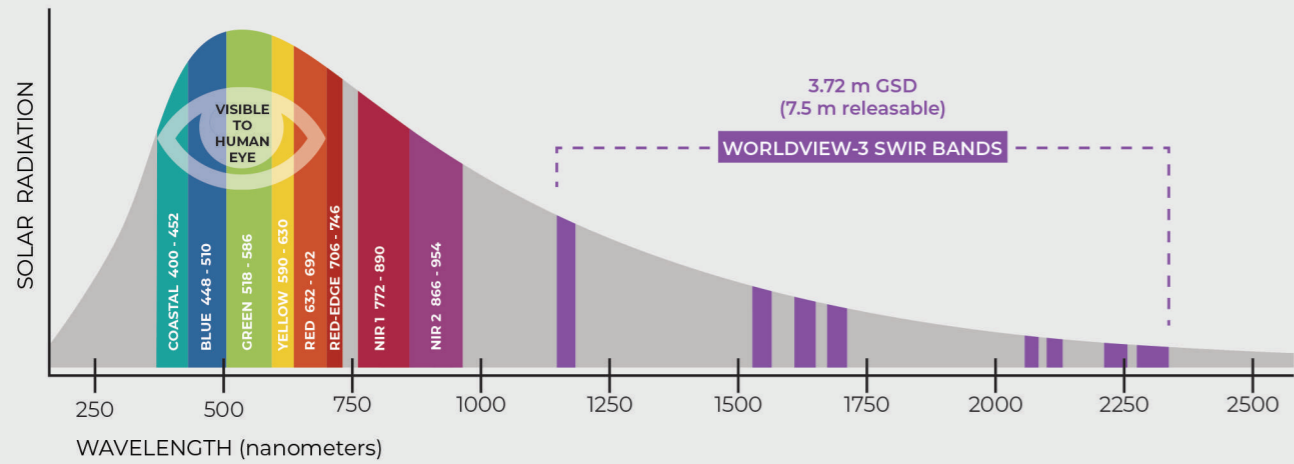
## GROUND STATION

We own and operate our own multi-mission ground station located at the German Aerospace Center (DLR) near Munich. Through this ground station we are able to directly task the WorldView satellite constellation as they pass over Europe and North Africa. Detailed collection scheduling and the local downlink of data provide unparalleled capabilities for optimised collection and near real-time delivery of imagery.

## IMAGE ARCHIVE

We have been collecting very high resolution imagery for more than 16 years on an almost daily basis. Up to +3 million square kilometres of imagery is added to the archives every day. Our library also incorporates the data of our partner DigitalGlobe, thereby giving you access to the largest very high resolution satellite data imagery library in the world.

S-H-C-U-D-O-R-P  
P-R-O-D-U-C-T-S



## SPECTRAL CAPACITY

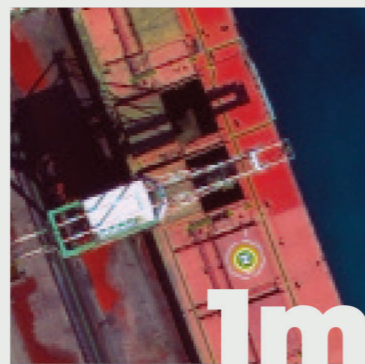
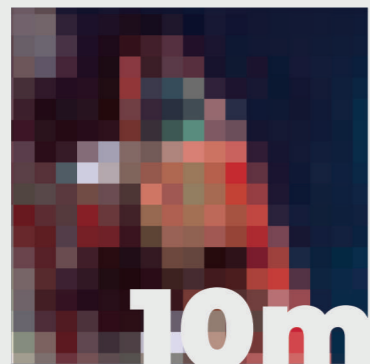
We are able to collect data on 16 different spectral bands. Applications include:

- Bathymetry Data
- Mineral Identification
- Vegetation Health Analysis

# EXCLUSIVE FEATURES

## HIGHEST RESOLUTION

Worldview-3 proficiently delivers 30cm very high resolution imagery. The power of 30 cm resolution lies in its ability to detect small objects. Due to the level of detail, objects such as animals, humans, cars, boats, individual plants, and road lines are easily identifiable.



Milton Keynes is one of the fastest growing cities in the UK and a great economic success story. However, the challenge of supporting sustainable growth without exceeding the capacity of the infrastructure, and whilst meeting key carbon reduction targets, is a major one. Automated planning management at Milton Keynes was non-existent. The manual process required that properties only be physically inspected after planning permits were approved and documented in a database. The council recognised an opportunity to make better use of satellite data to address its urban planning activities and reduce the high resource impact previously needed to identify progress of approved building work.

## CHALLENGE

## SOLUTION

Utilising very high resolution imagery, Satellite Applications Catapult developed a unique Urban Planning Service that allows Milton Keynes Council to intuitively track land changes and easily identify where any illegal activity may be occurring, thus making the city more efficient. The application tool Keyne Eye feeds directly into the council dashboard and combines eight band multispectral 30 cm very high resolution satellite imagery captured by European Space Imaging on a quarterly basis. The tool incorporates detection layers that immediately identify any changes that have occurred. These changes can then be analysed in accordance with the approved planning permits.

The result is substantial time and cost savings to the council. Planning officers no longer need to physically inspect a property to verify planning permit adherence, they can simply view an image on the screen. The tool allows a high degree of accuracy with further applications such as the measurement of area and distance. For this reason, 30 cm very high resolution satellite imagery provided by European Space Imaging was crucial to the success of the project.

## RESULTS

# KEYNE EYE

SMART URBAN PLANNING

## CASE STUDY



