

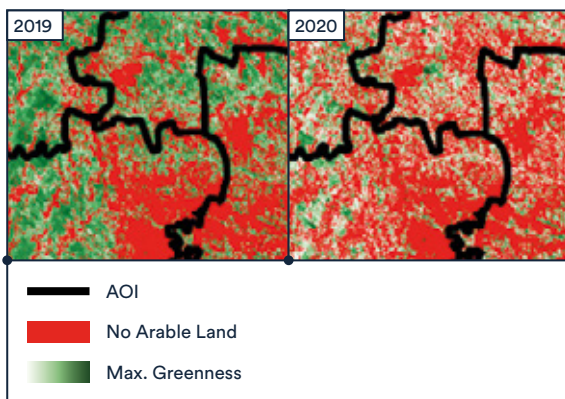


Earth Observation

See more from a higher level

Enhanced vision reveals deeper insight

Let us help you to make informed decisions by using our expertise in Earth observation data, geocomputing and modelling to track landscape changes or identify meaningful features, objects, and phenomena.



Earth Observation Clinic

We provide remote sensing and earth observation (EO) for the agricultural aspects of the European Space Agency's EO Clinic framework of services.

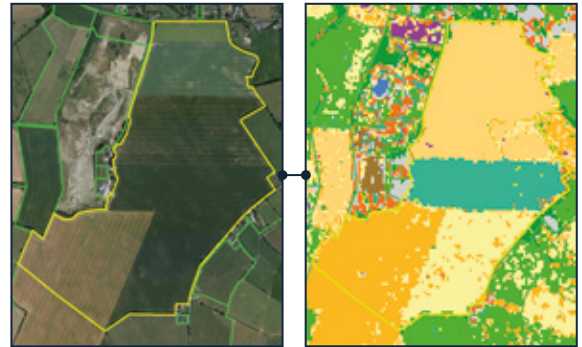
Providing vegetation monitoring of arable, non-vegetated and forested areas allows detailed analysis of a wide variety of parameters. One example was performed in the context of the ESA EO Clinic framework using a pre-processed time series of vegetation indices. The Normalized Difference Vegetation Index (NDVI) was used as a proxy of greenness to derive peak season; the Normalized Difference Red Edge (NDRE) was used to estimate the growing season start month and the Normalized Burn Ratio 2 (NBR2) for harvesting month.



Uncover a wealth of information into the health, state and use of land.

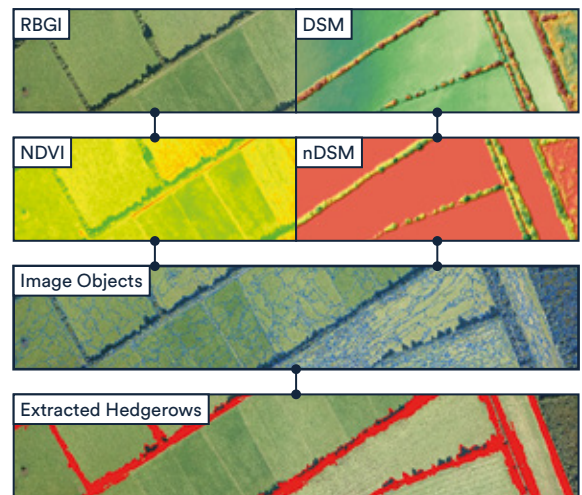
Land Cover Classification

We have developed a 'crop type' model for Ireland. We apply machine learning algorithms to classify the dense time series extracted from the imagery and highlight different features of interest. This model was designed to perform over short periods to help identify the presence of annual crops - useful for land monitoring and compliance. It can also be used over longer periods to establish land cover changes such as scrub encroachment and other land cover classes.



Feature Detection

We provide feature detection mapping using high-resolution aerial imagery and digital elevation models to extract terrain features. Raster and vector objects representing features and phenomena can be identified and extrapolated using remote sensing techniques. Objects and indices can be created from sample data and used for training the machine learning algorithms. The algorithms can be applied to much larger sets of data to identify features, objects, and phenomena across a diverse range of sectors including agri-food, forestry, biodiversity, climate change and the built environments.



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