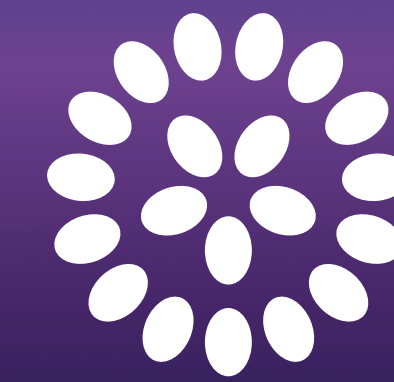
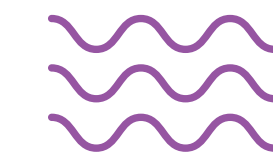


Open and FAIR Integrated Phenology Monitoring System



OSCAR
Open Science Clusters' Action
for Research & Society

The project aims to revolutionise the monitoring of plant phenology of terrestrial ecosystems through the design, development, and testing of an innovative phenological camera, coupled with a comprehensive post-processing software platform using open science and FAIR data practices. The project enhances data interoperability and accessibility for researchers, journalists, and the public alike.



ENVRI
Environmental Sciences

Challenge

There is the need for a clear standard protocol, the optimisation of the processing routines for a Real Time phenology calculation, and FAIR principles' implementation to link images to their metadata and the final product.

Solution

implementation of the Phenocam measurements and an Open Science service to produce open access and FAIR phenology observations. Design and develop a new phenological camera that operates on open protocols, thus providing detailed build-up instructions for potential industrial production.

Scientific Impact

The project will integrate the lessons learned in phenology monitoring and the knowledge of ICOS ERIC in data treatment and FAIRness, into an Open Science platform to more easily deploy a network of phenocams across RIs, and offer a centralised and standardised service to create user ready products.

Partners

University of Tuscia, Consiglio Nazionale delle Ricerche, University of Antwerp, BlueGreen Labs, Terrasystem